



Astrodienst Ephemeris Tables for the year 2081

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 2081
geocentric

JANUARY 2081

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 45 19	11°31'21"	23°48'	27°17'	28°17'	18°44'	22°22'	13°52'	4°24'	4°R41	13°V13	27°D38	28°H23	19°23'	11°R 3	W 1
T 2	6 49 16	12°14'29"	7°44'	28°48'	29°15'	19°27'	22°35'	13°59'	4°27'	4°L39	13°13	27°R38	28°20'	19°30'	11°R 2	T 2
F 3	6 53 12	13°15'39"	21°19'	0°17'	0°H12	20°11'	22°47'	14° 5'	4°31'	4°37'	13°14	27°H38	28°17'	19°37'	11° 1	F 3
S 4	6 57 9	14°16'48"	4°136'	1°44'	1° 8'	20°55'	23° 0'	14°12'	4°34'	4°36'	13°14	27°37'	28°13'	19°43'	11° 0	S 4
S 5	7 1 6	15°17'58"	17°38'	3° 9'	2° 4'	21°39'	23°13'	14°18'	4°38'	4°34'	13°14	27°32'	28°10'	19°50'	10°59'	S 5
M 6	7 5 2	16°19'08"	0°26'	4°32'	2°59'	22°22'	23°26'	14°25'	4°41'	4°33'	13°14	27°25'	28° 7'	19°57'	10°58'	M 6
T 7	7 8 59	17°20'19"	13° 3'	5°51'	3°54'	23° 6'	23°39'	14°32'	4°44'	4°31'	13°14	27°16'	28° 4'	20° 3'	10°58'	T 7
W 8	7 12 55	18°21'29"	25°29'	7° 8'	4°48'	23°50'	23°52'	14°38'	4°48'	4°30'	13°15	27° 4'	28° 1'	20°10'	10°57'	W 8
T 9	7 16 52	19°22'40"	7°36'	8°20'	5°41'	24°33'	24° 5'	14°45'	4°51'	4°28'	13°15	26°50'	27°58'	20°17'	10°56'	T 9
F 10	7 20 48	20°23'50"	19°55'	9°27'	6°33'	25°17'	24°18'	14°52'	4°55'	4°26'	13°15	26°37'	27°54'	20°23'	10°56'	F 10
S 11	7 24 45	21°25'00"	1°55'	10°29'	7°25'	26° 1'	24°31'	14°59'	4°58'	4°25'	13°16	26°25'	27°51'	20°30'	10°55'	S 11
S 12	7 28 42	22°26'09"	13°49'	11°25'	8°16'	26°45'	24°45'	15° 5'	5° 1'	4°23'	13°16	26°15'	27°48'	20°37'	10°55'	S 12
M13	7 32 38	23°27'19"	25°39'	12°13'	9° 6'	27°28'	24°58'	15°12'	5° 5'	4°21'	13°16	26° 7'	27°45'	20°43'	10°54'	M13
T 14	7 36 35	24°28'27"	7°H25'	12°54'	9°56'	28°12'	25°11'	15°19'	5° 8'	4°20'	13°17	26° 3'	27°42'	20°50'	10°54'	T 14
W15	7 40 31	25°29'35"	19°13'	13°25'	10°44'	28°56'	25°25'	15°26'	5°12'	4°18'	13°17	26° 1'	27°38'	20°57'	10°53'	W15
T 16	7 44 28	26°30'43"	1°V 6'	13°47'	11°32'	29°39'	25°38'	15°33'	5°15'	4°16'	13°18	26°D 1'	27°35'	21° 3'	10°53'	T 16
F 17	7 48 24	27°31'49"	13° 9'	13°R58'	12°19'	0°V23'	25°52'	15°40'	5°19'	4°15'	13°18	26° 2'	27°32'	21°10'	10°53'	F 17
S 18	7 52 21	28°32'56"	25°26'	13°58'	13° 5'	1° 6'	26° 5'	15°47'	5°22'	4°13'	13°19	26°R 2'	27°29'	21°17'	10°53'	S 18
S 19	7 56 17	29°34'01"	8°H 4'	13°46'	13°49'	1°50'	26°19'	15°54'	5°26'	4°11'	13°19	26° 2'	27°26'	21°23'	10°D53'	S 19
M20	8 0 14	0°35'05"	21° 7'	13°22'	14°33'	2°34'	26°33'	16° 1'	5°29'	4°10'	13°20	26° 0'	27°23'	21°30'	10°53'	M20
T 21	8 4 11	1°36'09"	4°H39'	12°47'	15°16'	3°17'	26°46'	16° 8'	5°33'	4° 8'	13°20	25°55'	27°19'	21°37'	10°53'	T 21
W22	8 8 7	2°37'12"	18°41'	12° 2'	15°57'	4° 1'	27° 0'	16°15'	5°36'	4° 6'	13°21	25°49'	27°16'	21°43'	10°53'	W22
T 23	8 12 4	3°38'14"	3°H 11'	11° 6'	16°37'	4°44'	27°14'	16°22'	5°40'	4° 5'	13°21	25°41'	27°13'	21°50'	10°53'	T 23
F 24	8 16 0	4°39'15"	18° 6'	10° 3'	17°16'	5°28'	27°28'	16°29'	5°43'	4° 3'	13°22	25°32'	27°10'	21°57'	10°53'	F 24
S 25	8 19 57	5°40'15"	3°H16'	8°53'	17°54'	6°11'	27°42'	16°36'	5°47'	4° 1'	13°23	25°25'	27° 7'	22° 4'	10°54'	S 25
S 26	8 23 53	6°41'14"	18°32'	7°38'	18°30'	6°55'	27°56'	16°43'	5°51'	3°59'	13°23	25°18'	27° 4'	22°10'	10°54'	S 26
M27	8 27 50	7°42'13"	3°H43'	6°22'	19° 5'	7°38'	28°10'	16°51'	5°54'	3°58'	13°24	25°14'	27° 0'	22°17'	10°55'	M27
T 28	8 31 46	8°43'10"	18°39'	5° 7'	19°39'	8°21'	28°24'	16°58'	5°58'	3°56'	13°25	25°D12'	26°57'	22°24'	10°55'	T 28
W29	8 35 43	9°44'07"	3°H14'	3°53'	20°11'	9° 5'	28°38'	17° 5'	6° 1'	3°54'	13°26	25°12'	26°54'	22°30'	10°56'	W29
T 30	8 39 40	10°45'04"	17°24'	2°45'	20°41'	9°48'	28°52'	17°12'	6° 5'	3°53'	13°26	25°14'	26°51'	22°37'	10°56'	T 30
F 31	8 43 36	11°46'00"	1°H 9'	1°42'	21°H10'	10°V31'	29°22'	17°19'	6° 8'	3°L51'	13°V27	25°H15'	26°H48'	22°44'	10°H57'	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	22s57	2n46	0n20	22s39	2s 0	13s 2	1s 2	5s 4	0s40	14s52	0s51	17s30	0s53	19s43	0s35	18n49
T 2	22 52	3s53	0s53	22 17	1 56	12 37	0 56	4 46	0 39	14 47	0 51	17 28	0 53	19 42	0 35	18 50
F 3	22 46	10 12	2 2	21 53	1 51	12 11	0 50	4 28	0 38	14 43	0 51	17 26	0 53	19 41	0 35	18 50
S 4	22 40	15 55	3 3	21 28	1 45	11 45	0 44	4 9	0 36	14 39	0 51	17 25	0 53	19 40	0 35	18 50
S 5	22 33	20 48	3 52	21 2	1 38	11 20	0 38	3 51	0 35	14 35	0 51	17 23	0 53	19 40	0 35	18 51
M 6	22 26	24 37	4 29	20 36	1 31	10 54	0 31	3 33	0 34	14 31	0 51	17 21	0 53	19 39	0 35	18 51
T 7	22 18	27 12	4 53	20 8	1 22	10 28	0 25	3 15	0 33	14 26	0 51	17 19	0 53	19 38	0 35	18 51
W 8	22 10	28 23	5 1	19 40	1 13	10 1	0 18	2 56	0 32	14 22	0 51	17 17	0 53	19 37	0 35	18 52
T 9	22 2	28 8	4 56	19 11	1 3	9 35	0 11	2 38	0 31	14 18	0 51	17 15	0 53	19 36	0 35	18 52
F 10	21 53	26 32	4 37	18 43	0 52	9 9	0 3	2 19	0 29	14 13	0 51	17 13	0 53	19 35	0 35	18 53
S 11	21 44	23 44	4 7	18 14	0 39	8 43	0n 4	2 1	0 28	14 9	0 51	17 11	0 53	19 35	0 35	18 53
S 12	21 34	19 56	3 25	17 46	0 26	8 17	0 12	1 43	0 27	14 4	0 51	17 9	0 53	19 34	0 35	18 53
M13	21 24	15 24	2 35	17 19	0 12	7 51	0 20	1 24	0 26	14 0	0 51	17 7	0 53	19 33	0 35	18 54
T 14	21 13	10 18	1 38	16 53	0n 4	7 25	0 28	1 6	0 25	13 55	0 51	17 5	0 53	19 32	0 35	18 54
W15	21 2	4 49	0 36	16 28	0 20	6 59	0 36	0 48	0 24	13 51	0 51	17 3	0 53	19 31	0 35	18 55
T 16	20 51	0n51	0n27	16 6	0 37	6 33	0 35	0 29	0 23	13 46	0 51	17 1	0 53	19 30	0 35	18 55
F 17	20 39	6 35	1 31	15 45	0 55	6 7	0 54	0 11	0 22	13 42	0 51	16 59	0 53	19 30	0 35	18 55
S 18	20 27	12 11	2 31	15 28	1 13	5 41	1 3	0n 8	0 21	13 37	0 51	16 57	0 54	19 29	0 35	18 56
S 19	20 14	17 26	3 26	15 14	1 32	5 15	1 12	0 26	0 20	13 32	0 51	16 55	0 54	19 28	0 35	18 56
M20	20 1	22 5	4 12	15 3	1 50	4 50	1 21	0 44	0 18	13 28	0 51	16 53	0 54	19 27	0 35	18 57
T 21	19 48	25 45	4 46	14 55	2 8	4 25	1 31	1 2	0 17	13 23	0 51	16 51	0 54	19 26	0 35	18 57
W22	19 34	28 0	5 4	14 51	2 25	4 0	1 40	1 21	0 16	13 18	0 51	16 49	0 54	19 25	0 35	18 57
T 23	19 20	28 27	5 4	14 51	2 41	3 35	1 50	1 39	0 15	13 14	0 51	16 47	0 54	19 24	0 35	18 58
F 24	19 6	26 53	4 43	14 54	2 56	3 11	2 0	1 57	0 14	13 9	0 51	16 45	0 54	19 24	0 35	18 58
S 25	18 51	23 21	4 3	15 0	3 8	2 46	2 11	2 15	0 13	13 4	0 51	16 43	0 54	19 23	0 35	18 59
S 26	18 36	18 11	3 4	15 9	3 19	2 23	2 21	2 33	0 12	12 59	0 51	16 41	0 54	19 22	0 35	18 59
M27	18 20	11 54	1 53	15 20	3 27	1 59	2 32	2 51	0 11	12 55	0 51	16 38	0 54	19 21	0 35	19 0
T 28	18 4	5 2	0 35	15 33	3 32	1 36	2 43	3 9	0 10	12 50	0 51	16 36	0 54	19 20	0 35	19 0
W29	17 48	1s57	0s43	15 47	3 35	1 13	2 54	3 27	0 9	12 45	0 51	16 34	0 54	19 19	0 35	19 0
T 30	17 32	8 38	1 57	16 2	3 36	0 51	3 6	3 45	0 8	12 40	0 51	16 32	0 54	19 18	0 35	19 1
F 31	17s15	14s43	3s 2	16s18	3n34	0s29	3n17	4n 3	0s 7	12s35	0s51	16s30	0s54	19s17	0s35	19n 1

Julian Day Number = 2481130.5, Delta T = 85.09 sec
Ecliptic obliquity = 23°25'52", Nutation = 0°00'01", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°52'19", Lahiri = 24°59'20"

ASTRODIENST EPHEMERIS for the year 2081

geocentric

FEBRUARY 2081

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 47 33	12 ⁴⁶ 55	14 ¹¹ 29	0°R46	21 ¹¹ 37	11 ¹⁷ 15	29 ²² 20	17 ²² 26	6 ²² 12	3°R49	13 ¹⁷ 28	25°R15	26 ¹¹ 44	22 ²² 50	10 ¹⁸ 58	S 1
S 2	8 51 29	13°47'49	27°28	29 ²³ 58	22° 3	11°58	29°34	17°34	6°15	3 ¹⁰ 48	13°29	25 ¹¹ 14	26°41	22°57	10°58	S 2
M 3	8 55 26	14°48'43	10 ²⁷ 9	29°19	22°26	12°41	29°48	17°41	6°19	3°46	13°30	25°11	26°38	23° 4	10°59	M 3
T 4	8 59 22	15°49'36	22°35	28°48	22°48	13°25	0 ¹¹ 3	17°48	6°22	3°44	13°30	25° 7	26°35	23°10	11° 0	T 4
W 5	9 3 19	16°50'28	4 ²³ 48	28°25	23° 8	14° 8	0°17	17°55	6°26	3°43	13°31	25° 0	26°32	23°17	11° 1	W 5
T 6	9 7 15	17°51'19	16°53	28°11	23°26	14°51	0°31	18° 2	6°29	3°41	13°32	24°53	26°29	23°24	11° 2	T 6
F 7	9 11 12	18°52'09	28°51	28°D 5	23°41	15°34	0°45	18°10	6°33	3°39	13°33	24°46	26°25	23°30	11° 3	F 7
S 8	9 15 9	19°52'58	10 ²² 44	28° 7	23°55	16°17	1° 0	18°17	6°36	3°38	13°34	24°39	26°22	23°37	11° 4	S 8
S 9	9 19 5	20°53'46	22°34	28°16	24° 7	17° 0	1°14	18°24	6°39	3°36	13°35	24°34	26°19	23°44	11° 6	S 9
M10	9 23 2	21°54'32	4 ¹² 22	28°31	24°16	17°43	1°28	18°31	6°43	3°35	13°36	24°30	26°16	23°50	11° 7	M10
T 11	9 26 58	22°55'17	16°10	28°53	24°23	18°26	1°43	18°38	6°46	3°33	13°37	24°28	26°13	23°57	11° 8	T 11
W12	9 30 55	23°56'00	28° 2	29°20	24°27	19° 9	1°57	18°46	6°50	3°31	13°38	24°D28	26°10	24° 4	11°10	W12
T 13	9 34 51	24°56'42	9 ¹⁷ 59	29°52	24°R30	19°52	2°12	18°53	6°53	3°30	13°39	24°29	26° 6	24°10	11°11	T 13
F 14	9 38 48	25°57'23	22° 6	0 ²² 29	24°29	20°35	2°26	19° 0	6°56	3°28	13°40	24°31	26° 3	24°17	11°12	F 14
S 15	9 42 44	26°58'02	4 ¹⁸ 25	1°11	24°27	21°18	2°40	19° 7	7° 0	3°27	13°41	24°33	26° 0	24°24	11°14	S 15
S 16	9 46 41	27°58'39	17° 2	1°56	24°21	22° 1	2°55	19°14	7° 3	3°25	13°42	24°34	25°57	24°30	11°16	S 16
M17	9 50 38	28°59'14	29°59	2°45	24°14	22°44	3° 9	19°21	7° 7	3°24	13°43	24°R34	25°54	24°37	11°17	M17
T 18	9 54 34	29°59'48	13 ¹¹ 23	3°38	24° 3	23°27	3°24	19°28	7°10	3°22	13°44	24°34	25°50	24°44	11°19	T 18
W19	9 58 31	1 ¹¹ 0'20	27°13	4°34	23°50	24°10	3°38	19°36	7°13	3°21	13°45	24°32	25°47	24°50	11°21	W19
T 20	10 2 27	2° 0'50	11 ¹⁶ 30	5°33	23°35	24°53	3°53	19°43	7°16	3°19	13°46	24°29	25°44	24°57	11°23	T 20
F 21	10 6 24	3° 1'19	26°12	6°34	23°17	25°35	4° 7	19°50	7°20	3°18	13°47	24°26	25°41	25° 4	11°24	F 21
S 22	10 10 20	4° 1'45	11 ¹⁸ 14	7°38	22°57	26°18	4°22	19°57	7°23	3°17	13°49	24°23	25°38	25°10	11°26	S 22
S 23	10 14 17	5° 2'10	26°27	8°44	22°34	27° 1	4°36	20° 4	7°26	3°15	13°50	24°21	25°35	25°17	11°28	S 23
M24	10 18 13	6° 2'33	11 ¹⁹ 41	9°52	22°10	27°43	4°51	20°11	7°29	3°14	13°51	24°20	25°31	25°24	11°30	M24
T 25	10 22 10	7° 2'54	26°47	11° 3	21°43	28°26	5° 5	20°18	7°33	3°12	13°52	24°D20	25°28	25°30	11°32	T 25
W26	10 26 7	8° 3'14	11 ²¹ 36	12°15	21°14	29° 9	5°19	20°25	7°36	3°11	13°53	24°20	25°25	25°37	11°35	W26
T 27	10 30 3	9° 3'32	26° 1	13°29	20°43	29°51	5°34	20°32	7°39	3°10	13°55	24°21	25°22	25°44	11°37	T 27
F 28	10 34 0	10 ¹¹ 3'49	9 ¹¹ 59	14 ²² 45	20 ¹¹ 11	0 ¹⁸ 34	5 ¹¹ 48	20 ²² 39	7 ²² 42	3 ¹⁰ 8	13 ¹⁷ 56	24 ¹¹ 22	25 ¹¹ 19	25 ²² 50	11 ¹⁸ 39	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	16s58	19s55 3s55	16s34 3n30	0s 8 3n29	4n21	0s 6 12s30	0s51	16s28 0s54	19s17	0s35	19n 2 0s16	10s13 16s51	1s53	1s18	16s37	13n31 1s40
S 2	16 41	24 2 4 35	16 49 3 24	0n13 3 40	4 39 0 5	12 25 0 51	16 26 0 54	19 16 0 35	19 2 0 16	10 13 16 51	1 53 1 19	16 34 13 31	1 40			
M 3	16 23	26 54 4 59	17 4 3 17	0 34 3 52	4 57 0 4	12 20 0 51	16 24 0 54	19 15 0 35	19 2 0 16	10 12 16 51	1 55 1 20	16 31 13 32	1 40			
T 4	16 5	28 23 5 10	17 19 3 9	0 53 4 5	5 14 0 4	12 15 0 51	16 21 0 54	19 14 0 35	19 3 0 16	10 11 16 50	1 57 1 21	16 28 13 32	1 40			
W 5	15 47	28 26 5 6	17 32 2 59	1 12 4 17	5 32 0 3	12 10 0 51	16 19 0 54	19 13 0 35	19 3 0 16	10 11 16 50	1 59 1 23	16 25 13 32	1 40			
T 6	15 29	27 7 4 48	17 45 2 49	1 31 4 29	5 49 0 2	12 5 0 51	16 17 0 55	19 12 0 35	19 4 0 16	10 10 16 50	2 2 1 24	16 22 13 33	1 40			
F 7	15 10	24 35 4 17	17 57 2 38	1 48 4 42	6 7 0 1	12 0 0 51	16 15 0 55	19 11 0 35	19 4 0 16	10 10 16 49	2 5 1 25	16 19 13 33	1 40			
S 8	14 51	21 0 3 36	18 8 2 27	2 5 4 54	6 24 0n 0	11 55 0 51	16 13 0 55	19 11 0 35	19 4 0 16	10 9 16 49	2 7 1 27	16 17 13 33	1 40			
S 9	14 32	16 36 2 46	18 18 2 15	2 21 5 7	6 42 0 1	11 50 0 51	16 11 0 55	19 10 0 35	19 5 0 16	10 8 16 49	2 9 1 28	16 14 13 34	1 40			
M10	14 12	11 35 1 48	18 26 2 3	2 37 5 19	6 59 0 2	11 45 0 51	16 8 0 55	19 9 0 35	19 5 0 16	10 8 16 49	2 11 1 29	16 11 13 34	1 40			
T 11	13 52	6 9 0 45	18 34 1 51	2 51 5 32	7 16 0 3	11 40 0 52	16 6 0 55	19 8 0 35	19 6 0 16	10 7 16 48	2 12 1 30	16 8 13 35	1 40			
W12	13 32	0 29 0n20	18 40 1 40	3 5 5 45	7 33 0 4	11 35 0 52	16 4 0 55	19 7 0 35	19 6 0 16	10 6 16 48	2 12 1 32	16 5 13 35	1 40			
T 13	13 12	5n15 1 24	18 45 1 28	3 17 5 57	7 50 0 5	11 30 0 52	16 2 0 55	19 6 0 35	19 6 0 16	10 6 16 48	2 11 1 33	16 2 13 35	1 40			
F 14	12 52	10 52 2 26	18 48 1 16	3 28 6 10	8 7 0 5	11 24 0 52	16 0 0 55	19 5 0 35	19 7 0 16	10 5 16 47	2 11 1 34	15 59 13 36	1 40			
S 15	12 31	16 10 3 22	18 51 1 4	3 39 6 22	8 24 0 6	11 19 0 52	15 58 0 55	19 5 0 35	19 7 0 16	10 5 16 47	2 10 1 35	15 56 13 36	1 40			
S 16	12 10	20 55 4 10	18 52 0 53	3 48 6 35	8 41 0 7	11 14 0 52	15 55 0 55	19 4 0 35	19 7 0 16	10 4 16 47	2 9 1 37	15 53 13 37	1 40			
M17	11 49	24 48 4 47	18 51 0 42	3 56 6 47	8 58 0 8	11 9 0 52	15 53 0 55	19 3 0 35	19 8 0 16	10 3 16 47	2 9 1 38	15 50 13 37	1 40			
T 18	11 28	27 30 5 9	18 50 0 31	4 3 6 59	9 14 0 9	11 4 0 52	15 51 0 55	19 2 0 35	19 8 0 16	10 3 16 46	2 10 1 39	15 47 13 38	1 40			
W19	11 7	28 39 5 15	18 47 0 20	4 8 7 10	9 31 0 10	10 59 0 52	15 49 0 56	19 1 0 35	19 8 0 16	10 2 16 46	2 10 1 40	15 44 13 39	1 40			
T 20	10 45	27 56 5 1	18 43 0 10	4 12 7 21	9 48 0 10	10 53 0 52	15 47 0 56	19 1 0 35	19 9 0 16	10 1 16 46	2 11 1 42	15 41 13 39	1 40			
F 21	10 24	25 17 4 28	18 38 0 0	4 15 7 32	10 4 0 11	10 48 0 52	15 45 0 56	19 0 0 35	19 9 0 16	10 1 16 46	2 13 1 43	15 38 13 40	1 40			
S 22	10 2	20 52 3 36	18 31 0s10	4 17 7 42	10 20 0 12	10 43 0 52	15 42 0 56	18 59 0 35	19 9 0 16	10 0 16 45	2 14 1 44	15 35 13 40	1 40			
S 23	9 40	15 1 2 28	18 23 0 19	4 17 7 52	10 36 0 13	10 38 0 52	15 40 0 56	18 58 0 35	19 10 0 16	9 59 16 45	2 15 1 45	15 32 13 41	1 40			
M24	9 18	8 15 1 9	18 13 0 28	4 16 8 1	10 52 0 14	10 33 0 52	15 38 0 56	18 57 0 35	19 10 0 16	9 59 16 45	2 15 1 47	15 29 13 42	1 40			
T 25	8 55	1 4 0s14	18 3 0 37	4 13 8 10	11 8 0 14	10 27 0 52	15 36 0 56	18 56 0 35	19 10 0 16	9 58 16 45	2 15 1 48	15 26 13 42	1 40			
W26	8 33	6s 2 1 34	17 51 0 45	4 9 8 18	11 24 0 15	10 22 0 52	15 34 0 56	18 56 0 35	19 11 0 16	9 57 16 45	2 15 1 49	15 23 13 43	1 40			
T 27	8 10	12 38 2 47	17 37 0 53	4 4 8 25	11 40 0 16	10 17 0 52	15 32 0 56	18 55 0 35	19 11 0 16	9 57 16 44	2 15 1 50	15 20 13 44	1 40			
F 28	7s48	18s23 3s47	17s23 1s 1	3n57 8n31	11n56 0n17	10s12 0s52	15s30 0s56	18s54 0s35	19n11 0s16	9s56 16s44	2s14 1s52	15s17 13n44	1s40			

Julian Day Number = 2481161.5, Delta T = 85.13 sec

Ecliptic obliquity = 23°25'52, Nutation = 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°52'23, Lahiri = 24°59'24

ASTRODIENST EPHEMERIS for the year 2081

geocentric

MARCH 2081

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 37 56	11♈ 4'05	23♏31	16♏ 2	19°R37	1♏16	6♈ 3	20♏46	7♏45	3°R 7	13♏57	24♈23	25♈16	25♏57	11♏41	S 1
S 2	10 41 53	12° 4'19	6♈36	17°22	19♈ 2	1°58	6°17	20°53	7°48	3♏ 6	13°58	24°R24	25°12	26° 4	11°44	S 2
M 3	10 45 49	13° 4'31	19°19	18°42	18°26	2°41	6°32	21° 0	7°51	3° 5	14° 0	24°24	25° 9	26°10	11°46	M 3
T 4	10 49 46	14° 4'42	1♈43	20° 4	17°49	3°23	6°46	21° 6	7°54	3° 4	14° 1	24°23	25° 6	26°17	11°48	T 4
W 5	10 53 42	15° 4'52	13°53	21°27	17°12	4° 6	7° 0	21°13	7°57	3° 2	14° 2	24°22	25° 3	26°24	11°51	W 5
T 6	10 57 39	16° 4'59	25°51	22°52	16°34	4°48	7°15	21°20	8° 0	3° 1	14° 3	24°21	25° 0	26°30	11°53	T 6
F 7	11 1 36	17° 5'06	7♏43	24°18	15°57	5°30	7°29	21°27	8° 3	3° 0	14° 5	24°20	24°56	26°37	11°56	F 7
S 8	11 5 32	18° 5'10	19°32	25°45	15°19	6°12	7°44	21°33	8° 6	2°59	14° 6	24°19	24°53	26°44	11°59	S 8
S 9	11 9 29	19° 5'13	1♈19	27°14	14°43	6°55	7°58	21°40	8° 9	2°58	14° 7	24°18	24°50	26°50	12° 1	S 9
M10	11 13 25	20° 5'14	13° 9	28°44	14° 6	7°37	8°12	21°47	8°12	2°57	14° 9	24°18	24°47	26°57	12° 4	M10
T 11	11 17 22	21° 5'13	25° 3	0♈15	13°31	8°19	8°27	21°53	8°15	2°56	14°10	24°D18	24°44	27° 3	12° 7	T 11
W12	11 21 18	22° 5'10	7♏ 3	1°47	12°57	9° 1	8°41	22° 0	8°17	2°55	14°11	24°18	24°41	27°10	12° 9	W12
T 13	11 25 15	23° 5'05	19°11	3°20	12°25	9°43	8°55	22° 7	8°20	2°54	14°13	24°18	24°37	27°17	12°12	T 13
F 14	11 29 11	24° 4'58	1♈29	4°55	11°54	10°25	9° 9	22°13	8°23	2°53	14°14	24°R18	24°34	27°23	12°15	F 14
S 15	11 33 8	25° 4'49	13°59	6°31	11°25	11° 7	9°24	22°19	8°25	2°52	14°15	24°18	24°31	27°30	12°18	S 15
S 16	11 37 5	26° 4'38	26°44	8° 7	10°57	11°49	9°38	22°26	8°28	2°51	14°17	24°18	24°28	27°37	12°21	S 16
M17	11 41 1	27° 4'24	9♏45	9°46	10°32	12°31	9°52	22°32	8°31	2°50	14°18	24°18	24°25	27°43	12°24	M17
T 18	11 44 58	28° 4'09	23° 6	11°25	10° 9	13°13	10° 6	22°39	8°33	2°49	14°20	24°D18	24°21	27°50	12°27	T 18
W19	11 48 54	29° 3'51	6♈47	13° 6	9°48	13°55	10°20	22°45	8°36	2°49	14°21	24°18	24°18	27°57	12°30	W19
T 20	11 52 51	0♏ 3'31	20°50	14°48	9°29	14°37	10°34	22°51	8°38	2°48	14°22	24°18	24°15	28° 3	12°33	T 20
F 21	11 56 47	1° 3'08	5♏13	16°31	9°13	15°18	10°48	22°57	8°41	2°47	14°24	24°19	24°12	28°10	12°36	F 21
S 22	12 0 44	2° 2'44	19°54	18°15	8°59	16° 0	11° 2	23° 3	8°43	2°46	14°25	24°19	24° 9	28°17	12°39	S 22
S 23	12 4 40	3° 2'16	4♏47	20° 1	8°48	16°42	11°16	23°10	8°46	2°46	14°27	24°20	24° 6	28°23	12°42	S 23
M24	12 8 37	4° 1'47	19°47	21°47	8°39	17°23	11°30	23°16	8°48	2°45	14°28	24°R20	24° 2	28°30	12°46	M24
T 25	12 12 34	5° 1'16	4♏44	23°36	8°33	18° 5	11°44	23°22	8°50	2°44	14°30	24°20	23°59	28°37	12°49	T 25
W26	12 16 30	6° 0'42	19°30	25°25	8°29	18°47	11°58	23°28	8°53	2°44	14°31	24°19	23°56	28°43	12°52	W26
T 27	12 20 27	7° 0'07	3♏59	27°16	8°D27	19°28	12°12	23°34	8°55	2°43	14°32	24°18	23°53	28°50	12°55	T 27
F 28	12 24 23	7°59'30	18° 5	29° 8	8°28	20°10	12°25	23°39	8°57	2°43	14°34	24°16	23°50	28°57	12°59	F 28
S 29	12 28 20	8°58'51	1♈44	1°Y 1	8°32	20°51	12°39	23°45	8°59	2°42	14°35	24°15	23°47	29° 3	13° 2	S 29
S 30	12 32 16	9°58'10	14°58	2°56	8°37	21°32	12°53	23°51	9° 2	2°42	14°37	24°13	23°43	29°10	13° 6	S 30
M31	12 36 13	10°Y57'27	27♈47	4°Y52	8♈45	22♏14	13♈ 6	23♏57	9♏ 4	2♏41	14°Y38	24♈12	23♈40	29♏17	13♏ 9	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	7s25	23s 2	4s32	17s 7	1s 8	3n49	8n37	12n11	0n17	10s 6	0s53	15s28	0s56	18s53	0s35	19n12
S 2	7 2	26 22	5 2	16 49	1 15	3 39	8 41	12 26	0 18	10 1	0 53	15 25	0 56	18 53	0 35	19 12
M 3	6 39	28 15	5 16	16 31	1 22	3 29	8 45	12 42	0 19	9 56	0 53	15 23	0 57	18 52	0 35	19 12
T 4	6 16	28 40	5 14	16 11	1 28	3 17	8 48	12 57	0 20	9 50	0 53	15 21	0 57	18 51	0 35	19 13
W 5	5 53	27 40	4 59	15 50	1 34	3 5	8 49	13 12	0 20	9 45	0 53	15 19	0 57	18 50	0 35	19 13
T 6	5 29	25 24	4 31	15 28	1 40	2 51	8 50	13 27	0 21	9 40	0 53	15 17	0 57	18 50	0 35	19 13
F 7	5 6	22 3	3 51	15 4	1 45	2 36	8 50	13 42	0 22	9 35	0 53	15 15	0 57	18 49	0 35	19 13
S 8	4 43	17 50	3 1	14 39	1 50	2 21	8 49	13 56	0 22	9 29	0 53	15 13	0 57	18 48	0 35	19 14
S 9	4 19	12 56	2 4	14 13	1 54	2 5	8 46	14 11	0 23	9 24	0 53	15 11	0 57	18 47	0 35	19 14
M10	3 56	7 34	1 2	13 46	1 58	1 48	8 43	14 25	0 24	9 19	0 53	15 9	0 57	18 47	0 35	19 14
T 11	3 32	1 54	0n 4	13 17	2 2	1 31	8 39	14 40	0 25	9 14	0 53	15 7	0 57	18 46	0 35	19 15
W12	3 8	3n52	1 10	12 47	2 5	1 14	8 34	14 54	0 25	9 8	0 53	15 5	0 58	18 45	0 35	19 15
T 13	2 45	9 34	2 14	12 16	2 8	0 56	8 29	15 8	0 26	9 3	0 53	15 3	0 58	18 45	0 35	19 15
F 14	2 21	14 59	3 12	11 44	2 10	0 39	8 22	15 22	0 27	8 58	0 54	15 1	0 58	18 44	0 35	19 15
S 15	1 57	19 53	4 2	11 10	2 12	0 21	8 15	15 35	0 27	8 52	0 54	14 59	0 58	18 43	0 35	19 15
S 16	1 34	23 59	4 42	10 35	2 14	0 3	8 7	15 49	0 28	8 47	0 54	14 57	0 58	18 43	0 35	19 16
M17	1 10	26 58	5 8	9 59	2 15	0s14	7 58	16 2	0 28	8 42	0 54	14 55	0 58	18 42	0 35	19 16
T 18	0 46	28 32	5 18	9 22	2 16	0 31	7 49	16 16	0 29	8 37	0 54	14 53	0 58	18 41	0 35	19 16
W19	0 22	28 25	5 10	8 44	2 16	0 48	7 39	16 29	0 30	8 31	0 54	14 51	0 58	18 41	0 35	19 16
T 20	0n 1	26 30	4 44	8 4	2 16	1 5	7 28	16 42	0 30	8 26	0 54	14 49	0 58	18 40	0 35	19 17
F 21	0 25	22 50	4 0	7 24	2 15	1 21	7 18	16 55	0 31	8 21	0 54	14 47	0 59	18 39	0 36	19 17
S 22	0 49	17 41	3 0	6 42	2 14	1 36	7 7	17 8	0 32	8 16	0 54	14 45	0 59	18 39	0 36	19 17
S 23	1 12	11 24	1 46	5 59	2 12	1 51	6 55	17 20	0 32	8 11	0 54	14 43	0 59	18 38	0 36	19 17
M24	1 36	4 26	0 25	5 15	2 10	2 5	6 44	17 32	0 33	8 5	0 55	14 41	0 59	18 38	0 36	19 17
T 25	2 0	2s45	0s57	4 30	2 8	2 18	6 32	17 45	0 33	8 0	0 55	14 39	0 59	18 37	0 36	19 17
W26	2 23	9 43	2 15	3 43	2 4	2 31	6 20	17 57	0 34	7 55	0 55	14 38	0 59	18 36	0 36	19 18
T 27	2 47	16 1	3 23	2 56	2 1	2 43	6 8	18 9	0 35	7 50	0 55	14 36	0 59	18 36	0 36	19 18
F 28	3 10	21 18	4 16	2 8	1 57	2 54	5 55	18 20	0 35	7 45	0 55	14 34	0 59	18 35	0 36	19 18
S 29	3 34	25 16	4 52	1 19	1 52	3 4	5 43	18 32	0 36	7 40	0 55	14 32	1 0	18 35	0 36	19 18
S 30	3 57	27 45	5 12	0 28	1 47	3 13	5 31	18 44	0 36	7 34	0 55	14 30	1 0	18 34	0 36	19 18
M31	4n20	28s40	5s16	0n23	1s41	3s22	5n18	18n55	0n37	7s29	0s55	14s29	1s 0	18s34	0s36	19n18

Julian Day Number = 2481189.5, Delta T = 85.16 sec

Ecliptic obliquity = 23°25'53, Nutation = 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°52'27, Lahiri = 24°59'28

ASTRODIENST EPHEMERIS for the year 2081

geocentric

APRIL 2081

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 40 9	11°56'43	10°31'5	6°49	8°55	22°55	13°20	24°2	9°6	2°R41	14°40	24°D11	23°37	29°23	13°12	T 1
W 2	12 44 6	12°55'57	22°25	8°48	9°8	23°37	13°34	24°8	9°8	2°L41	14°41	24°H11	23°34	29°30	13°16	W 2
T 3	12 48 3	13°55'09	4°24	10°48	9°22	24°18	13°47	24°13	9°10	2°40	14°43	24°12	23°31	29°37	13°19	T 3
F 4	12 51 59	14°54'19	16°14	12°48	9°38	24°59	14°1	24°19	9°12	2°40	14°44	24°14	23°27	29°43	13°23	F 4
S 5	12 55 56	15°53'28	28°2	14°50	9°57	25°40	14°14	24°24	9°13	2°40	14°45	24°16	23°24	29°50	13°27	S 5
S 6	12 59 52	16°52'34	9°50	16°53	10°17	26°22	14°27	24°29	9°15	2°40	14°47	24°17	23°21	29°57	13°30	S 6
M 7	13 3 49	17°51'39	21°43	18°57	10°39	27°3	14°41	24°35	9°17	2°39	14°48	24°R18	23°18	0°H3	13°34	M 7
T 8	13 7 45	18°50'42	3°44	21°2	11°3	27°44	14°54	24°40	9°19	2°39	14°50	24°17	23°15	0°10	13°37	T 8
W 9	13 11 42	19°49'43	15°56	23°7	11°28	28°25	15°7	24°45	9°21	2°39	14°51	24°16	23°12	0°17	13°41	W 9
T 10	13 15 38	20°48'41	28°18	25°12	11°55	29°6	15°20	24°50	9°22	2°39	14°53	24°13	23°8	0°23	13°45	T 10
F 11	13 19 35	21°47'38	10°54	27°17	12°24	29°47	15°33	24°55	9°24	2°39	14°54	24°9	23°5	0°30	13°48	F 11
S 12	13 23 31	22°46'33	23°43	29°23	12°54	0°II28	15°46	25°0	9°25	2°D39	14°56	24°4	23°2	0°37	13°52	S 12
S 13	13 27 28	23°45'26	6°II46	1°828	13°26	1°9	15°59	25°5	9°27	2°39	14°57	23°59	22°59	0°43	13°56	S 13
M14	13 31 25	24°44'16	20°2	3°32	13°59	1°50	16°12	25°10	9°28	2°39	14°58	23°55	22°56	0°50	14°0	M14
T 15	13 35 21	25°43'05	3°32	5°35	14°34	2°31	16°25	25°14	9°30	2°39	15°0	23°52	22°53	0°57	14°3	T 15
W16	13 39 18	26°41'51	17°15	7°36	15°9	3°12	16°37	25°19	9°31	2°39	15°1	23°50	22°49	1°3	14°7	W16
T 17	13 43 14	27°40'34	1°II11	9°36	15°46	3°52	16°50	25°24	9°33	2°39	15°3	23°D50	22°46	1°10	14°11	T 17
F 18	13 47 11	28°39'16	15°20	11°34	16°24	4°33	17°3	25°28	9°34	2°39	15°4	23°51	22°43	1°16	14°15	F 18
S 19	13 51 7	29°37'55	29°40	13°29	17°3	5°14	17°15	25°33	9°35	2°40	15°6	23°52	22°40	1°23	14°19	S 19
S 20	13 55 4	0°36'32	14°II10	15°22	17°44	5°54	17°28	25°37	9°36	2°40	15°7	23°53	22°37	1°30	14°22	S 20
M21	13 59 0	1°35'06	28°44	17°11	18°25	6°35	17°40	25°41	9°37	2°40	15°8	23°R54	22°33	1°36	14°26	M21
T 22	14 2 57	2°33'39	13°II18	18°58	19°8	7°16	17°52	25°45	9°38	2°40	15°10	23°52	22°30	1°43	14°30	T 22
W23	14 6 54	3°32'09	27°46	20°40	19°51	7°56	18°4	25°49	9°40	2°41	15°11	23°49	22°27	1°50	14°34	W23
T 24	14 10 50	4°30'38	12°II3	22°19	20°36	8°37	18°17	25°53	9°41	2°41	15°13	23°44	22°24	1°56	14°38	T 24
F 25	14 14 47	5°29'05	26°2	23°54	21°21	9°17	18°29	25°57	9°41	2°41	15°14	23°37	22°21	2°3	14°42	F 25
S 26	14 18 43	6°27'30	9°II40	25°25	22°7	9°58	18°41	26°1	9°42	2°42	15°15	23°30	22°18	2°10	14°46	S 26
S 27	14 22 40	7°25'54	22°55	26°52	22°54	10°38	18°53	26°5	9°43	2°42	15°17	23°24	22°14	2°16	14°50	S 27
M28	14 26 36	8°24'16	5°II47	28°14	23°42	11°19	19°4	26°9	9°44	2°43	15°18	23°18	22°11	2°23	14°53	M28
T 29	14 30 33	9°22'36	18°17	29°31	24°30	11°59	19°16	26°12	9°45	2°43	15°19	23°14	22°8	2°30	14°57	T 29
W30	14 34 29	10°20'55	0°II30	0°II45	25°H20	12°II39	19°H28	26°II16	9°II46	2°II44	15°Y21	23°H11	22°H5	2°H36	15°II1	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	4n43	28s5	4s4	1n15	1s35	3s29	5n6	19n6	0n37	7s24	0s56	14s27	1s0	18s33	0s36	19n18
W 2	56	269	439	28	129	336	454	1917	038	719	056	1425	10	1833	036	1918
T 3	529	234	42	31	121	342	442	1928	038	714	056	1424	10	1832	036	1918
F 4	552	194	315	355	114	347	430	1938	039	79	056	1422	10	1832	036	1919
S 5	615	1421	220	450	16	352	418	1949	039	74	056	1420	11	1831	036	1919
S 6	638	96	119	545	057	355	46	1959	040	659	056	1419	11	1831	036	1919
M 7	70	330	014	641	048	358	354	209	040	654	056	1417	11	1830	036	1919
T 8	723	2n17	0n52	737	038	359	342	2019	041	649	056	1415	11	1830	036	1919
W 9	745	83	156	832	029	40	331	2028	041	644	057	1414	11	1829	036	1919
T 10	87	1337	256	928	018	40	320	2038	042	639	057	1412	11	1829	036	1919
F 11	829	1842	348	1023	08	40	39	2047	042	634	057	1411	11	1829	036	1919
S 12	851	233	430	1118	0n3	358	258	2056	043	629	057	149	12	1828	036	1919
S 13	913	2620	459	1212	014	356	247	215	043	624	057	148	12	1828	036	1919
M14	935	2814	512	135	025	353	237	2114	044	619	057	146	12	1828	036	1919
T 15	956	2831	58	1357	036	350	226	2123	044	615	057	145	12	1827	036	1919
W16	1017	274	447	1447	047	345	216	2131	045	610	058	143	12	1827	036	1919
T 17	1039	2356	49	1536	058	340	26	2139	045	65	058	142	12	1827	036	1919
F 18	110	1920	315	1623	19	335	156	2147	046	60	058	141	13	1826	036	1919
S 19	1120	1335	28	179	119	328	147	2155	046	556	058	1359	13	1826	036	1919
S 20	1141	73	053	1752	130	321	137	223	047	551	058	1358	13	1826	036	1919
M21	121	06	0s26	1833	139	314	128	2210	047	546	058	1357	13	1825	037	1919
T 22	1221	6s50	144	1912	149	35	119	2218	047	542	059	1355	13	1825	037	1919
W23	1241	1323	254	1948	157	256	110	2225	048	537	059	1354	13	1825	037	1919
T 24	131	197	352	2022	25	247	12	2232	048	532	059	1353	13	1825	037	1919
F 25	1321	2342	434	2053	212	237	053	2238	049	528	059	1352	13	1824	037	1919
S 26	1340	2650	50	2121	219	226	045	2245	049	523	059	1351	13	1824	037	1919
S 27	1359	2823	59	2148	225	215	037	2251	049	519	059	1349	13	1824	037	1918
M28	1418	2820	52	2211	230	23	029	2257	050	514	10	1348	14	1824	037	1918
T 29	1437	2649	440	2232	233	151	022	233	050	510	10	1347	14	1824	037	1918
W30	14n55	24s3	4s6	22n51	2n37	1s38	0n14	23n9	0n51	5s5	1s0	13s46	1s5	18s23	0s37	19n18

Julian Day Number = 2481220.5, Delta T = 85.19 sec
 Ecliptic obliquity = 23°25'53, Nutation = 0°00'02, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°52'32, Lahiri = 24°59'32

ASTRODIENST EPHEMERIS for the year 2081
geocentric

MAY 2081

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 38 26	11♈19'12	12♋30	1♊53	26♋10	13♊20	19♈39	26♋19	9♋46	2♈45	15♑22	23°D11	22♋2	2♋43	15♈5	T 1
F 2	14 42 23	12°17'27	24°21	2°56	27°1	14°0	19°51	26°23	9°47	2°45	15°23	23♋11	21°59	2°50	15°9	F 2
S 3	14 46 19	13°15'42	6♋9	3°55	27°52	14°40	20°2	26°26	9°47	2°46	15°25	23°13	21°55	2°56	15°13	S 3
S 4	14 50 16	14°13'54	17°59	4°49	28°44	15°21	20°13	26°29	9°48	2°47	15°26	23°R14	21°52	3°3	15°17	S 4
M 5	14 54 12	15°12'05	29°56	5°38	29°37	16°1	20°25	26°33	9°48	2°47	15°27	23°14	21°49	3°10	15°21	M 5
T 6	14 58 9	16°10'15	12♑5	6°22	0♑30	16°41	20°36	26°36	9°49	2°48	15°29	23°12	21°46	3°16	15°25	T 6
W 7	15 2 5	17°8'23	24°27	7°0	1°24	17°21	20°47	26°38	9°49	2°49	15°30	23°8	21°43	3°23	15°29	W 7
T 8	15 6 2	18°6'29	7♋5	7°34	2°18	18°1	20°58	26°41	9°49	2°50	15°31	23°1	21°39	3°30	15°33	T 8
F 9	15 9 58	19°4'34	20°0	8°2	3°13	18°41	21°8	26°44	9°50	2°51	15°32	22°53	21°36	3°36	15°37	F 9
S 10	15 13 55	20°2'37	3♊12	8°26	4°8	19°21	21°19	26°47	9°50	2°51	15°34	22°43	21°33	3°43	15°41	S 10
S 11	15 17 52	21°0'39	16°38	8°44	5°4	20°1	21°30	26°49	9°50	2°52	15°35	22°33	21°30	3°50	15°45	S 11
M12	15 21 48	21°58'39	0♉17	8°56	6°1	20°41	21°40	26°52	9°50	2°53	15°36	22°24	21°27	3°56	15°49	M12
T 13	15 25 45	22°56'37	14°6	9°4	6°57	21°21	21°51	26°54	9°50	2°54	15°37	22°17	21°24	4°3	15°52	T 13
W14	15 29 41	23°54'34	28°3	9°R 7	7°54	22°1	22°1	26°57	9°R50	2°55	15°38	22°12	21°20	4°9	15°56	W14
T 15	15 33 38	24°52'28	12♎5	9°5	8°52	22°41	22°11	26°59	9°50	2°56	15°40	22°9	21°17	4°16	16°0	T 15
F 16	15 37 34	25°50'21	26°11	8°58	9°50	23°21	22°21	27°1	9°50	2°57	15°41	22°D 9	21°14	4°23	16°4	F 16
S 17	15 41 31	26°48'12	10♎20	8°47	10°49	24°1	22°31	27°3	9°50	2°58	15°42	22°9	21°11	4°29	16°8	S 17
S 18	15 45 27	27°46'01	24°30	8°31	11°47	24°40	22°41	27°5	9°50	3°0	15°43	22°R 9	21°8	4°36	16°12	S 18
M19	15 49 24	28°43'49	8♉41	8°11	12°46	25°20	22°50	27°7	9°50	3°1	15°44	22°8	21°5	4°43	16°16	M19
T 20	15 53 21	29°41'34	22°49	7°48	13°46	26°0	23°0	27°9	9°49	3°2	15°45	22°5	21°1	4°49	16°20	T 20
W21	15 57 17	0♊39'19	6♎52	7°22	14°46	26°40	23°10	27°10	9°49	3°3	15°46	21°59	20°58	4°56	16°24	W21
T 22	16 1 14	1°37'01	20°46	6°53	15°46	27°19	23°19	27°12	9°49	3°4	15°47	21°51	20°55	5°3	16°27	T 22
F 23	16 5 10	2°34'43	4♊27	6°21	16°46	27°59	23°28	27°13	9°48	3°6	15°48	21°40	20°52	5°9	16°31	F 23
S 24	16 9 7	3°32'23	17°51	5°49	17°47	28°39	23°37	27°15	9°48	3°7	15°50	21°29	20°49	5°16	16°35	S 24
S 25	16 13 3	4°30'02	0♉57	5°15	18°48	29°18	23°46	27°16	9°47	3°8	15°51	21°17	20°45	5°23	16°39	S 25
M26	16 17 0	5°27'40	13°44	4°41	19°50	29°58	23°55	27°17	9°47	3°10	15°52	21°7	20°42	5°29	16°43	M26
T 27	16 20 57	6°25'17	26°12	4°7	20°52	0♉37	24°4	27°18	9°46	3°11	15°53	20°59	20°39	5°36	16°46	T 27
W28	16 24 53	7°22'53	8♋24	3°33	21°54	1°17	24°12	27°19	9°45	3°12	15°54	20°53	20°36	5°43	16°50	W28
T 29	16 28 50	8°20'27	20°23	3°2	22°56	1°56	24°21	27°20	9°45	3°14	15°55	20°50	20°33	5°49	16°54	T 29
F 30	16 32 46	9°18'01	2♋15	2°31	23°58	2°36	24°29	27°21	9°44	3°15	15°55	20°49	20°30	5°56	16°58	F 30
S 31	16 36 43	10♊15'34	14♋3	2♊4	25°Y 1	3♉15	24♋37	27♋21	9♋43	3♈17	15°Y56	20♋49	20♋26	6♋3	17♈1	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	decl	decl	decl	decl	lat
T 1	15n13	20s17	3s22	23n 7	2n39	1s25	0n 7	23n14	0n51	5s 1	1s 0	13s45	1s 5	18s23	0s37	19n18	0s15	9s23	16s43	2s42	3s10	12s 6	14n44	1s42			
F 2	15 31	15 45	2 30	23 21	2 40	1 11	0s 0	23 19	0 51	4 57	1 0	13 44	1 5	18 23	0 37	19 18	0 15	9 22	16 43	2 42	3 11	12 2	14 45	1 42			
S 3	15 49	10 40	1 31	23 33	2 40	0 57	0 7	23 24	0 52	4 52	1 1	13 43	1 5	18 23	0 37	19 18	0 15	9 22	16 43	2 42	3 12	11 59	14 46	1 42			
S 4	16 6	5 11	0 28	23 42	2 39	0 43	0 14	23 29	0 52	4 48	1 1	13 42	1 5	18 23	0 37	19 18	0 15	9 22	16 43	2 41	3 13	11 56	14 47	1 42			
M 5	16 23	0n32	0n36	23 49	2 37	0 28	0 20	23 34	0 52	4 44	1 1	13 41	1 5	18 23	0 37	19 17	0 15	9 21	16 43	2 41	3 15	11 53	14 48	1 42			
T 6	16 40	6 18	1 40	23 53	2 34	0 12	0 27	23 38	0 53	4 40	1 1	13 40	1 6	18 23	0 37	19 17	0 15	9 21	16 44	2 42	3 16	11 50	14 49	1 42			
W 7	16 57	11 57	2 40	23 56	2 30	0n 3	0 33	23 43	0 53	4 36	1 1	13 40	1 6	18 23	0 37	19 17	0 15	9 21	16 44	2 44	3 17	11 46	14 51	1 42			
T 8	17 13	17 13	3 33	23 56	2 24	0 19	0 39	23 47	0 54	4 32	1 2	13 39	1 6	18 23	0 37	19 17	0 15	9 20	16 44	2 46	3 18	11 43	14 52	1 42			
F 9	17 29	21 51	4 16	23 55	2 18	0 36	0 44	23 51	0 54	4 27	1 2	13 38	1 6	18 23	0 37	19 17	0 15	9 20	16 44	2 50	3 20	11 40	14 53	1 42			
S 10	17 45	25 29	4 47	23 51	2 10	0 53	0 50	23 54	0 54	4 23	1 2	13 37	1 6	18 23	0 37	19 17	0 15	9 20	16 44	2 53	3 21	11 37	14 54	1 42			
S 11	18 0	27 47	5 3	23 45	2 2	1 10	0 55	23 58	0 55	4 19	1 2	13 37	1 6	18 23	0 37	19 16	0 15	9 19	16 44	2 57	3 22	11 34	14 55	1 42			
M12	18 15	28 28	5 2	23 38	1 52	1 27	1 1	24 1	0 55	4 15	1 2	13 36	1 7	18 23	0 37	19 16	0 15	9 19	16 45	3 1	3 23	11 30	14 56	1 43			
T 13	18 30	27 22	4 43	23 28	1 41	1 45	1 6	24 4	0 55	4 12	1 3	13 35	1 7	18 23	0 37	19 16	0 15	9 19	16 45	3 4	3 25	11 27	14 57	1 43			
W14	18 45	24 35	4 7	23 17	1 29	2 3	1 11	24 7	0 56	4 8	1 3	13 35	1 7	18 23	0 37	19 16	0 14	9 19	16 45	3 6	3 26	11 24	14 58	1 43			
T 15	18 59	20 19	3 17	23 4	1 16	2 21	1 16	24 9	0 56	4 4	1 3	13 34	1 7	18 23	0 37	19 16	0 14	9 18	16 45	3 7	3 27	11 21	14 59	1 43			
F 16	19 13	14 53	2 14	22 49	1 3	2 40	1 20	24 12	0 56	4 0	1 3	13 33	1 7	18 23	0 37	19 15	0 14	9 18	16 46	3 7	3 28	11 18	15 0	1 43			
S 17	19 26	8 39	1 3	22 33	0 48	2 59	1 25	24 14	0 56	3 56	1 3	13 33	1 8	18 23	0 37	19 15	0 14	9 18	16 46	3 7	3 30	11 14	15 1	1 43			
S 18	19 39	1 59	0s13	22 15	0 32	3 18	1 29	24 16	0 57	3 53	1 4	13 32	1 8	18 23	0 38	19 15	0 14	9 18	16 46	3 7	3 31	11 11	15 2	1 43			
M19	19 52	4s46	1 27	21 56	0 16	3 37	1 33	24 18	0 57	3 49	1 4	13 32	1 8	18 23	0 38	19 15	0 14	9 18	16 46	3 7	3 32	11 8	15 3	1 43			
T 20	20 5	11 16	2 35	21 36	0s 1	3 56	1 37	24 20	0 57	3 46	1 4	13 32	1 8	18 23	0 38	19 14	0 14	9 17	16 46	3 8	3 33	11 5	15 4	1 43			
W21	20 17	17 10	3 34	21 14	0 18	4 16	1 41	24 21	0 58	3 42	1 4	13 31	1 8	18 23	0 38	19 14	0 14	9 17	16 47	3 11	3 35	11 1	15 5	1 43			
T 22	20 29	22 6	4 19	20 52	0 35	4 36	1 44	24 22	0 58	3 39	1 5	13 31	1 9	18 23	0 38	19 14	0 14	9 17	16 47	3 14	3 36	10 58	15 6	1 43			
F 23	20 40	25 45	4 49	20 30	0 53	4 56	1 48	24 23	0 58	3 35	1 5	13 31	1 9	18 24	0 38	19 14	0 14	9 17	16 47	3 18	3 37	10 55	15 7	1 44			
S 24	20 51	27 52	5 1	20 7	1 10	5 16	1 51	24 24	0 58	3 32	1 5	13 30	1 9	18 24	0 38	19 13	0 14	9 17	16 48	3 23	3 38	10 52	15 8	1 44			
S 25	21 2	28 23	4 58	19 44	1 28	5 36	1 54	24 24	0 59	3 28	1 5	13 30	1 9	18 24	0 38	19 13	0 14	9 17	16 48	3 27	3 40	10 49	15 9	1 44			
M26	21 12	27 21	4 39	19 21	1 45	5 57	1 57	24 25	0 59	3 25	1 6	13 30	1 9	18 24	0 38	19 13	0 14	9 17	16 48	3 31	3 41	10 45	15 10	1 44			
T 27	21 22	24 57	4 7	18 58	2 1	6 17	2 0	24 25	0 59	3 22	1 6	13 30	1 9	18 24	0 38	19 12	0 14	9 16	16 48	3 34	3 42	10 42	15 11	1 44			
W28	21 32	21 27	3 25	18 37	2 17	6 38	2 3	24 25	1 0	3 19	1 6	13 29	1 10	18 25	0 38	19 12	0 14	9 16	16 49	3 37	3 43	10 39	15 12	1 44			
T 29	21 41	17 7	2 34	18 16	2 32	6 58	2 5	24 25	1 0	3 16	1 6	13 29	1 10	18 25	0 38	19 12	0 14	9 16	16 49	3 38	3 45	10 36	15 13	1 44			
F 30	21 50	12 11	1 37	17 56	2 47	7 19	2 8	24 24	1 0	3 12	1 6	13 29	1 10	18 25	0 38	19 12	0 14	9 16	16 49	3 38	3 46	10 32	15 14	1 44			
S 31	21n59	6s49	0s36	17n38	3s 0	7n40	2s10	24n24	1n 0	3s 9	1s 7	13s29	1s10	18s25	0s38	19n11	0s14	9s16	16s49	3s38	3s47	10s29	15n15	1s44			

ASTRODIENST EPHEMERIS for the year 2081

geocentric

JULY 2081

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 38 56	9 ⁵³ 01	28 ⁴ 4	20 ^{II} 44	28 ⁸ 58	23 ²⁶ 26	27 ⁷ 35	26 ⁶ R55	8 ⁸ R58	4 ¹³ 13	16 ¹⁶ 16	17 ¹⁷ R56	18 ⁴⁸ 48	9 ²⁹ 29	18 ⁴⁴ 44	T 1
W 2	18 42 53	10 ⁵⁰ 14	10 ⁸ 36	22 ²¹ 21	0 ^{II} 6	24 ⁵ 5	27 ³⁸ 38	26 ⁵² 52	8 ⁵⁶ 56	4 ¹⁵ 15	16 ¹⁶ 16	17 ⁵² 52	18 ⁴⁵ 45	9 ³⁵ 35	18 ⁴⁶ 46	W 2
T 3	18 46 49	11 ⁴⁷ 28	23 ³⁰ 30	24 ² 2	1 ¹⁴ 14	24 ⁴³ 43	27 ⁴⁰ 40	26 ⁵⁰ 50	8 ⁵⁴ 54	4 ¹⁷ 17	16 ¹⁷ 17	17 ⁴⁶ 46	18 ⁴² 42	9 ⁴² 42	18 ⁴⁹ 49	T 3
F 4	18 50 46	12 ⁴⁴ 41	6 ^{II} 50	25 ⁴⁵ 45	2 ²³ 23	25 ²² 22	27 ⁴³ 43	26 ⁴⁷ 47	8 ⁵² 52	4 ¹⁹ 19	16 ¹⁷ 17	17 ³⁸ 38	18 ³⁸ 38	9 ⁴⁹ 49	18 ⁵² 52	F 4
S 5	18 54 42	13 ⁴¹ 55	20 ³⁴ 34	27 ³² 32	3 ³¹ 31	26 ¹ 1	27 ⁴⁵ 45	26 ⁴⁵ 45	8 ⁵⁰ 50	4 ²¹ 21	16 ¹⁷ 17	17 ²⁹ 29	18 ³⁵ 35	9 ⁵⁵ 55	18 ⁵⁵ 55	S 5
S 6	18 58 39	14 ³⁹ 09	4 ⁴² 42	29 ²² 22	4 ³⁹ 39	26 ³⁹ 39	27 ⁴⁸ 48	26 ⁴² 42	8 ⁴⁸ 48	4 ²³ 23	16 ¹⁸ 18	17 ¹⁹ 19	18 ³² 32	10 ² 2	18 ⁵⁷ 57	S 6
M 7	19 2 35	15 ³⁶ 23	19 ⁸ 8	1 ¹⁵ 15	5 ⁴⁸ 48	27 ¹⁸ 18	27 ⁵⁰ 50	26 ³⁹ 39	8 ⁴⁵ 45	4 ²⁵ 25	16 ¹⁸ 18	17 ⁹ 9	18 ²⁹ 29	10 ⁹ 9	19 ⁰ 0	M 7
T 8	19 6 32	16 ³³ 37	3 ¹⁰ 10	3 ¹⁰ 10	6 ⁵⁷ 57	27 ⁵⁷ 57	27 ⁵² 52	26 ³⁶ 36	8 ⁴³ 43	4 ²⁷ 27	16 ¹⁸ 18	17 ² 2	18 ²⁶ 26	10 ¹⁵ 15	19 ² 2	T 8
W 9	19 10 29	17 ³⁰ 51	18 ²⁹ 29	5 ⁸ 8	8 ⁵ 5	28 ³⁵ 35	27 ⁵³ 53	26 ³⁴ 34	8 ⁴¹ 41	4 ²⁹ 29	16 ¹⁸ 18	16 ⁵⁷ 57	18 ²³ 23	10 ²² 22	19 ⁵ 5	W 9
T 10	19 14 25	18 ²⁸ 05	3 ¹⁰ 10	7 ⁹ 9	9 ¹⁴ 14	29 ¹⁴ 14	27 ⁵⁵ 55	26 ³¹ 31	8 ³⁹ 39	4 ³² 32	16 ¹⁸ 18	16 ⁵⁴ 54	18 ¹⁹ 19	10 ²⁸ 28	19 ⁷ 7	T 10
F 11	19 18 22	19 ²⁵ 19	17 ⁴² 42	9 ¹¹ 11	10 ²³ 23	29 ⁵³ 53	27 ⁵⁶ 56	26 ²⁷ 27	8 ³⁷ 37	4 ³⁴ 34	16 ¹⁸ 18	16 ^{D53} 53	18 ¹⁶ 16	10 ³⁵ 35	19 ¹⁰ 10	F 11
S 12	19 22 18	20 ²² 32	2 ⁴ 2	11 ¹⁵ 15	11 ³² 32	0 ¹³¹ 31	27 ⁵⁷ 57	26 ²⁴ 24	8 ³⁵ 35	4 ³⁶ 36	16 ¹⁸ 18	16 ⁵⁴ 54	18 ¹³ 13	10 ⁴² 42	19 ¹² 12	S 12
S 13	19 26 15	21 ¹⁹ 46	16 ⁹ 9	13 ²¹ 21	12 ⁴¹ 41	1 ¹⁰ 10	27 ⁵⁸ 58	26 ²¹ 21	8 ³² 32	4 ³⁸ 38	16 ¹⁸ 18	16 ^{R54} 54	18 ¹⁰ 10	10 ⁴⁸ 48	19 ¹⁴ 14	S 13
M14	19 30 11	22 ¹⁶ 59	29 ⁵⁹ 59	15 ²⁸ 28	13 ⁵⁰ 50	1 ⁴⁸ 48	27 ⁵⁹ 59	26 ¹⁸ 18	8 ³⁰ 30	4 ⁴⁰ 40	16 ¹⁹ 19	16 ⁵⁴ 54	18 ⁷ 7	10 ⁵⁵ 55	19 ¹⁶ 16	M14
T 15	19 34 8	23 ¹⁴ 13	13 ³⁷ 37	17 ³⁶ 36	14 ⁵⁹ 59	2 ²⁷ 27	27 ⁵⁹ 59	26 ¹⁵ 15	8 ²⁸ 28	4 ⁴² 42	16 ¹⁹ 19	16 ⁵² 52	18 ³ 3	11 ² 2	19 ¹⁹ 19	T 15
W16	19 38 4	24 ¹¹ 26	26 ⁵⁹ 59	19 ⁴⁴ 44	16 ⁹ 9	3 ⁵ 5	27 ⁵⁹ 59	26 ¹¹ 11	8 ²⁵ 25	4 ⁴⁵ 45	16 ^{R19} 19	16 ⁴⁸ 48	18 ⁰ 0	11 ⁸ 8	19 ²¹ 21	W16
T 17	19 42 1	25 ⁸ 40	10 ⁹ 9	21 ⁵³ 53	17 ¹⁸ 18	3 ⁴⁴ 44	28 ^R 0	26 ⁸ 8	8 ²³ 23	4 ⁴⁷ 47	16 ¹⁹ 19	16 ⁴² 42	17 ⁵⁷ 57	11 ¹⁵ 15	19 ²³ 23	T 17
F 18	19 45 58	26 ⁵ 54	23 ⁵ 5	24 ² 2	18 ²⁸ 28	4 ²² 22	27 ⁵⁹ 59	26 ⁴ 4	8 ²¹ 21	4 ⁴⁹ 49	16 ¹⁹ 19	16 ³⁵ 35	17 ⁵⁴ 54	11 ²² 22	19 ²⁵ 25	F 18
S 19	19 49 54	27 ³ 08	5 ⁴⁹ 49	26 ¹⁰ 10	19 ³⁷ 37	5 ¹ 1	27 ⁵⁹ 59	26 ¹ 1	8 ¹⁹ 19	4 ⁵¹ 51	16 ¹⁸ 18	16 ²⁶ 26	17 ⁵¹ 51	11 ²⁸ 28	19 ²⁷ 27	S 19
S 20	19 53 51	28 ⁰ 22	18 ²⁰ 20	28 ¹⁸ 18	20 ⁴⁷ 47	5 ³⁹ 39	27 ⁵⁹ 59	25 ⁵⁷ 57	8 ¹⁶ 16	4 ⁵³ 53	16 ¹⁸ 18	16 ¹⁷ 17	17 ⁴⁸ 48	11 ³⁵ 35	19 ²⁹ 29	S 20
M21	19 57 47	28 ⁵⁷ 37	0 ³⁹ 39	0 ²⁶ 26	21 ⁵⁷ 57	6 ¹⁸ 18	27 ⁵⁸ 58	25 ⁵³ 53	8 ¹⁴ 14	4 ⁵⁶ 56	16 ¹⁸ 18	16 ¹⁰ 10	17 ⁴⁴ 44	11 ⁴² 42	19 ³¹ 31	M21
T 22	20 1 44	29 ⁵⁴ 52	12 ⁴⁸ 48	2 ³² 32	23 ⁶ 6	6 ⁵⁶ 56	27 ⁵⁷ 57	25 ⁴⁹ 49	8 ¹¹ 11	4 ⁵⁸ 58	16 ¹⁸ 18	16 ³ 3	17 ⁴¹ 41	11 ⁴⁸ 48	19 ³³ 33	T 22
W23	20 5 40	0 ⁵² 08	24 ⁴⁷ 47	4 ³⁸ 38	24 ¹⁶ 16	7 ³⁴ 34	27 ⁵⁶ 56	25 ⁴⁶ 46	8 ⁹ 9	5 ⁰ 0	16 ¹⁸ 18	15 ⁵⁹ 59	17 ³⁸ 38	11 ⁵⁵ 55	19 ³⁵ 35	W23
T 24	20 9 37	1 ⁴⁹ 24	6 ⁴⁰ 40	6 ⁴² 42	25 ²⁶ 26	8 ¹³ 13	27 ⁵⁵ 55	25 ⁴² 42	8 ⁷ 7	5 ² 2	16 ¹⁸ 18	15 ⁵⁷ 57	17 ³⁵ 35	12 ² 2	19 ³⁶ 36	T 24
F 25	20 13 33	2 ⁴⁶ 41	18 ²⁷ 27	8 ⁴⁵ 45	26 ³⁶ 36	8 ⁵¹ 51	27 ⁵³ 53	25 ³⁸ 38	8 ⁴ 4	5 ⁵ 5	16 ¹⁸ 18	15 ^{D56} 56	17 ³² 32	12 ⁸ 8	19 ³⁸ 38	F 25
S 26	20 17 30	3 ⁴³ 59	0 ¹⁵ 15	10 ⁴⁶ 46	27 ⁴⁷ 47	9 ³⁰ 30	27 ⁵² 52	25 ³⁴ 34	8 ² 2	5 ⁷ 7	16 ¹⁷ 17	15 ⁵⁷ 57	17 ²⁹ 29	12 ¹⁵ 15	19 ⁴⁰ 40	S 26
S 27	20 21 27	4 ⁴¹ 18	12 ⁵ 5	12 ⁴⁶ 46	28 ⁵⁷ 57	10 ⁸ 8	27 ⁵⁰ 50	25 ³⁰ 30	8 ⁰ 0	5 ⁹ 9	16 ¹⁷ 17	15 ⁵⁹ 59	17 ²⁵ 25	12 ²¹ 21	19 ⁴¹ 41	S 27
M28	20 25 23	5 ³⁸ 37	24 ⁴ 4	14 ⁴⁵ 45	0 ⁵⁷ 57	10 ⁴⁶ 46	27 ⁴⁸ 48	25 ²⁶ 26	7 ⁵⁷ 57	5 ¹¹ 11	16 ¹⁷ 17	16 ⁰ 0	17 ²² 22	12 ²⁸ 28	19 ⁴³ 43	M28
T 29	20 29 20	6 ³⁵ 58	6 ⁸ 17	16 ⁴¹ 41	1 ¹⁸ 18	11 ²⁵ 25	27 ⁴⁶ 46	25 ²² 22	7 ⁵⁵ 55	5 ¹³ 13	16 ¹⁷ 17	16 ^R 1	17 ¹⁹ 19	12 ³⁵ 35	19 ⁴⁴ 44	T 29
W30	20 33 16	7 ³³ 20	18 ⁴⁷ 47	18 ³⁷ 37	2 ²⁸ 28	12 ³ 3	27 ⁴³ 43	25 ¹⁸ 18	7 ⁵² 52	5 ¹⁶ 16	16 ¹⁶ 16	16 ⁰ 0	17 ¹⁶ 16	12 ⁴¹ 41	19 ⁴⁶ 46	W30
T 31	20 37 13	8 ¹³⁰ 43	1 ^{II} 40	20 ¹³⁰ 30	3 ³⁹ 39	12 ¹⁴¹ 41	27 ⁷ 41	25 ¹³ 13	7 ⁵⁰ 50	5 ¹⁸ 18	16 ¹⁶ 16	15 ⁷ 58	17 ¹³ 13	12 ⁴⁸ 48	19 ⁴⁷ 47	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♂	♂
T 1	23n 4	13n50	3n17	21n33	1s34	17n39	2s19	22n29	1n 6	2s 7	1s15	13s44	1s16	18s38	0s39	18n59	0s14	9s18	17s 0	4s46	4s26	8s47	15n39
W 2	22 59	18 50	4 2	21 51	1 21	17 55	2 18	22 22	1 6	2 6	1 16	13 45	1 16	18 39	0 39	18 58	0 14	9 18	17 0	4 48	4 27	8 44	15 39
T 3	22 54	23 7	4 37	22 9	1 9	18 10	2 17	22 16	1 6	2 5	1 16	13 46	1 16	18 39	0 39	18 58	0 14	9 19	17 0	4 50	4 28	8 41	15 40
F 4	22 49	26 21	4 58	22 25	0 57	18 25	2 15	22 9	1 6	2 4	1 16	13 47	1 17	18 40	0 39	18 57	0 14	9 19	17 1	4 53	4 30	8 37	15 41
S 5	22 44	28 8	5 3	22 40	0 44	18 40	2 13	22 2	1 7	2 4	1 16	13 48	1 17	18 40	0 39	18 57	0 14	9 19	17 1	4 57	4 31	8 34	15 41
S 6	22 38	28 11	4 50	22 54	0 32	18 54	2 12	21 54	1 7	2 3	1 17	13 49	1 17	18 41	0 39	18 56	0 14	9 19	17 2	5 1	4 32	8 31	15 42
M 7	22 31	26 20	4 18	23 6	0 20	19 8	2 10	21 47	1 7	2 3	1 17	13 50	1 17	18 41	0 39	18 56	0 14	9 20	17 2	5 4	4 33	8 27	15 42
T 8	22 24	22 41	3 29	23 15	0 8	19 21	2 8	21 39	1 7	2 2	1 17	13 51	1 17	18 42	0 39	18 55	0 14	9 20	17 2	5 7	4 35	8 24	15 43
W 9	22 17	17 35	2 26	23 23	0n 3	19 34	2 6	21 32	1 7	2 2	1 18	13 52	1 17	18 43	0 39	18 55	0 14	9 20	17 3	5 9	4 36	8 21	15 43
T 10	22 10	11 28	1 13	23 29	0 15	19 47	2 4	21 24	1 7	2 1	1 18	13 53	1 18	18 43	0 39	18 54	0 14	9 20	17 3	5 10	4 37	8 17	15 44
F 11	22 2	4 48	0s 4	23 32	0 25	19 59	2 2	21 16	1 7	2 1	1 18	13 55	1 18	18 44	0 39	18 54	0 14	9 21	17 3	5 11	4 38	8 14	15 44
S 12	21 53	2s 2	1 20	23 33	0 36	20 10	2 0	21 8	1 7	2 1	1 19	13 56	1 18	18 44	0 39	18 53	0 14	9 21	17 4	5 10	4 39	8 11	15 45
S 13	21 44	8 40	2 30	23 31	0 46	20 22	1 58	20 59	1 7	2 1	1 19	13 57	1 18	18 45	0 39	18 53	0 14	9 21	17 4	5 10	4 41	8 7	15 45
M14	21 35	14 45	3 30	23 26	0 55	20 32	1 56	20 51	1 8	2 1	1 19	13 58	1 18	18 46	0 39	18 52	0 14	9 22	17 4	5 10	4 42	8 4	15 46
T 15	21 26	20 0	4 17	23 19	1 3	20 42	1 53	20 42	1 8	2 1	1 20	14 0	1 18	18 46	0 39	18 52	0 14	9 22	17 5	5 11	4 43	8 1	15 46
W16	21 16	24 9	4 49	23 9	1 11	20 52	1 51	20 34	1 8	2 1	1 20	14 1	1 19	18 47	0 39	18 51	0 14	9 22	17 5	5 12	4 44	7 57	15 46
T 17	21 6	26 59	5 5	22 56	1 18	21 1	1 49	20 25	1 8	2 1	1 20	14 2	1 19	18 47	0 39	18 51	0 14	9 23	17 6	5 15	4 46	7 54	15 47
F 18	20 55	28 19	5 5	22 41	1 24	21 10	1 46	20 16	1 8	2 2	1 20	14 4	1 19	18 48	0 39	18 50	0 13	9 23	17 6	5 18	4 47	7 51	15 47
S 19	20 44	28 8	4 50	22 23	1 30	21 18	1 44	20 6	1 8	2 2	1 21	14 5	1 19	18 49	0 39	18 50	0 13	9 23	17 6	5 21	4 48	7 47	15 48
S 20	20 33	26 29	4 21	22 2	1 35	21 26	1 41	19 57	1 8	2 3	1 21	14 6	1 19	18 49	0 39	18 49	0 13	9 24	17 7	5 24	4 49	7 44	15 48
M21	20 22	23 35	3 40	21 40	1 39	21 33	1 39	19 48	1 8	2 3	1 21	14 8	1 19	18 50	0 39	18 49	0 13	9 24	17 7	5 28	4 51	7 41	15 48
T 22	20 10	19 40	2 49	21 14	1 42	21 39	1 36	19 38	1 8	2 4	1 22	14 9	1 19	18 51	0 39	18 48	0 13	9 24	17 7	5 30	4 52	7 37	15 49
W23	19 57	15 1	1 52	20 47	1 44	21 45	1 33	19 28	1 8	2 4	1 22	14 11	1 20	18 51	0 39	18 48	0 13	9 25	17 8	5 32	4 53	7 34	15 49
T24	19 45	9 50	0 50	20 18	1 46	21 51	1 30	19 18	1 8	2 5	1 22	14 12	1 20	18 52	0 39	18 47	0 13	9 25	17 8	5 32	4 54	7 31	15 49
F 25	19 32	4 21	0n14	19 47	1 47	21 56	1 28	19 8	1 8	2 6	1 23	14 14	1 20	18 52	0 39	18 46	0 13	9 26	17 8	5 33	4 56	7 27	15 49
S 26	19 19	1n16	1 17	19 15	1 47	22 0	1 25	18 58	1 8	2 7	1 23	14 15	1 20	18 53	0 39	18 46	0 13	9 26	17 9	5 32	4 57	7 24	15 50
S 27	19 5	6 53	2 17	18 41	1 47	22 4	1 22	18 48	1 8	2 8	1 23	14 16	1 20	18 54	0 39	18 45	0 13	9 26	17 9	5 32	4 58	7 21	15 50
M28	18 51	12 19	3 13	18 6	1 46	22 7	1 19	18 37	1 8	2 9	1 23	14 18	1 20	18 54	0 39	18 45	0 13	9 27	17 9	5 31	4 59	7 17	15 50
T 29	18 37	17 23	4 0	17 29	1 44	22 9	1 16	18 27	1 9	2 10	1 24	14 19	1 20	18 55	0 39	18 44	0 13	9 27	17 10	5 31	5 1	7 14	15 50
W30	18 23	21 51	4 37	16 52	1 42	22 11	1 13	18 16	1 9	2 11	1 24	14 21	1 21	18 56	0 39	18 44	0 13	9 28	17 10	5 31	5 2	7 11	15 51
T 31	18n 8	25n25	5n 2	16n13	1n39	22n12	1s10	18n 5	1n 9	2s13	1s24	14s22	1s21	18s56	0s39	18n43	0s13	9s28	17s11	5s32	5s 3	7s 7	15n51

ASTRODIENST EPHEMERIS for the year 2081
geocentric

AUGUST 2081

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 41 9	9♌28°06	15♊ 0	22♌22	4♏49	13♌20	27°R38	25°R 9	7°R48	5♌20	16°R16	15°R54	17♋ 9	12♋55	19♋49	F 1
S 2	20 45 6	10°25'32	28°46	24°13	6° 0	13°58	27♋35	25♋ 5	7♋45	5°22	16°Y15	15°X50	17° 6	13° 1	19°50	S 2
S 3	20 49 2	11°22'58	12♏59	26° 1	7°11	14°36	27°32	25° 1	7°43	5°25	16°15	15°44	17° 3	13° 8	19°51	S 3
M 4	20 52 59	12°20'25	27°35	27°48	8°22	15°15	27°28	24°56	7°40	5°27	16°15	15°39	17° 0	13°15	19°52	M 4
T 5	20 56 56	13°17'53	12♌28	29°34	9°33	15°53	27°25	24°52	7°38	5°29	16°14	15°36	16°57	13°21	19°53	T 5
W 6	21 0 52	14°15'22	27°30	1♏17	10°44	16°31	27°21	24°48	7°36	5°31	16°14	15°33	16°54	13°28	19°54	W 6
T 7	21 4 49	15°12'51	12♏31	3° 0	11°55	17°10	27°17	24°43	7°33	5°33	16°13	15°D32	16°50	13°35	19°56	T 7
F 8	21 8 45	16°10'22	27°23	4°40	13° 6	17°48	27°13	24°39	7°31	5°36	16°13	15°32	16°47	13°41	19°56	F 8
S 9	21 12 42	17° 7'53	12♌ 1	6°19	14°17	18°26	27° 9	24°34	7°29	5°38	16°12	15°34	16°44	13°48	19°57	S 9
S 10	21 16 38	18° 5'26	26°20	7°56	15°29	19° 5	27° 4	24°30	7°26	5°40	16°12	15°35	16°41	13°54	19°58	S 10
M 11	21 20 35	19° 2'59	10♌17	9°32	16°40	19°43	27° 0	24°25	7°24	5°42	16°11	15°36	16°38	14° 1	19°59	M 11
T 12	21 24 31	20° 0'33	23°53	11° 7	17°51	20°21	26°55	24°21	7°22	5°44	16°11	15°R36	16°34	14° 8	20° 0	T 12
W 13	21 28 28	20°58'07	7♌ 9	12°39	19° 3	20°59	26°50	24°17	7°19	5°46	16°10	15°35	16°31	14°14	20° 0	W 13
T 14	21 32 25	21°55'43	20° 7	14°10	20°14	21°38	26°45	24°12	7°17	5°49	16°10	15°33	16°28	14°21	20° 1	T 14
F 15	21 36 21	22°53'20	2♏48	15°40	21°26	22°16	26°40	24° 8	7°15	5°51	16° 9	15°30	16°25	14°28	20° 2	F 15
S 16	21 40 18	23°50'57	15°16	17° 8	22°38	22°54	26°34	24° 3	7°12	5°53	16° 8	15°27	16°22	14°34	20° 2	S 16
S 17	21 44 14	24°48'36	27°32	18°34	23°50	23°32	26°29	23°59	7°10	5°55	16° 8	15°24	16°19	14°41	20° 2	S 17
M 18	21 48 11	25°46'16	9♋38	19°58	25° 1	24°10	26°23	23°54	7° 8	5°57	16° 7	15°21	16°15	14°48	20° 3	M 18
T 19	21 52 7	26°43'57	21°36	21°21	26°13	24°49	26°17	23°50	7° 6	5°59	16° 6	15°19	16°12	14°54	20° 3	T 19
W 20	21 56 4	27°41'39	3♋28	22°42	27°25	25°27	26°11	23°45	7° 3	6° 1	16° 6	15°17	16° 9	15° 1	20° 3	W 20
T 21	22 0 0	28°39'23	15°17	24° 2	28°37	26° 5	26° 5	23°41	7° 1	6° 4	16° 5	15°D17	16° 6	15° 8	20° 4	T 21
F 22	22 3 57	29°37'08	27° 4	25°20	29°49	26°43	25°59	23°36	6°59	6° 6	16° 4	15°17	16° 3	15°14	20° 4	F 22
S 23	22 7 54	0♏34°54	8♏52	26°36	1♌ 1	27°21	25°52	23°32	6°57	6° 8	16° 4	15°18	16° 0	15°21	20° 4	S 23
S 24	22 11 50	1°32'43	20°45	27°50	2°14	28° 0	25°46	23°27	6°55	6°10	16° 3	15°19	15°56	15°28	20°R 4	S 24
M 25	22 15 47	2°30'32	2♏47	29° 2	3°26	28°38	25°39	23°23	6°53	6°12	16° 2	15°21	15°53	15°34	20° 4	M 25
T 26	22 19 43	3°28'24	15° 0	0♌12	4°38	29°16	25°32	23°18	6°51	6°14	16° 1	15°22	15°50	15°41	20° 4	T 26
W 27	22 23 40	4°26'17	27°29	1°20	5°51	29°54	25°26	23°14	6°49	6°16	16° 0	15°22	15°47	15°47	20° 4	W 27
T 28	22 27 36	5°24'13	10♊19	2°25	7° 3	0♏32	25°19	23°10	6°47	6°18	16° 0	15°R22	15°44	15°54	20° 3	T 28
F 29	22 31 33	6°22'10	23°33	3°29	8°16	1°11	25°11	23° 5	6°45	6°20	15°59	15°22	15°40	16° 1	20° 3	F 29
S 30	22 35 29	7°20'08	7♏12	4°30	9°28	1°49	25° 4	23° 1	6°43	6°22	15°58	15°21	15°37	16° 7	20° 3	S 30
S 31	22 39 26	8♏18°09	21♏19	5♌28	10♌41	2♏27	24♋57	22♋57	6♋41	6♌24	15°Y57	15°X20	15°X34	16°X14	20°X 2	S 31

Day	☉	☾	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
F 1	17n53	27n45	5n12	15n34	1n36	22n13	1 s 7	17n55	1n 9	2s14	1s25	14s24	1s21	18s57	0s39	18n43	0s13	9s29	17s11
S 2	17 37	28 29	5 4	14 54	1 32	22 13	1 4	17 44	1 9	2 16	1 25	14 26	1 21	18 57	0 39	18 42	0 13	9 29	17 11
S 3	17 22	27 24	4 37	14 13	1 28	22 13	1 1	17 32	1 9	2 17	1 25	14 27	1 21	18 58	0 39	18 42	0 13	9 29	17 12
M 4	17 6	24 26	3 53	13 32	1 23	22 12	0 58	17 21	1 9	2 19	1 25	14 29	1 21	18 59	0 39	18 41	0 13	9 30	17 12
T 5	16 49	19 48	2 51	12 51	1 18	22 10	0 55	17 10	1 9	2 20	1 26	14 30	1 21	18 59	0 39	18 41	0 13	9 30	17 12
W 6	16 33	13 52	1 37	12 9	1 13	22 8	0 52	16 58	1 9	2 22	1 26	14 32	1 21	19 0	0 39	18 40	0 13	9 31	17 13
T 7	16 16	7 7	0 17	11 26	1 7	22 5	0 49	16 47	1 9	2 24	1 26	14 33	1 21	19 1	0 39	18 40	0 13	9 31	17 13
F 8	15 59	0 3	1s 5	10 44	1 0	22 1	0 46	16 35	1 9	2 26	1 26	14 35	1 22	19 1	0 39	18 39	0 13	9 32	17 13
S 9	15 42	6s54	2 20	10 1	0 54	21 57	0 43	16 23	1 9	2 28	1 27	14 37	1 22	19 2	0 39	18 39	0 13	9 32	17 13
S 10	15 24	13 21	3 26	9 19	0 47	21 52	0 40	16 11	1 9	2 30	1 27	14 38	1 22	19 2	0 39	18 38	0 13	9 33	17 14
M 11	15 6	18 58	4 17	8 36	0 39	21 47	0 37	15 59	1 9	2 32	1 27	14 40	1 22	19 3	0 39	18 38	0 13	9 33	17 14
T 12	14 48	23 27	4 52	7 53	0 32	21 41	0 34	15 47	1 9	2 34	1 27	14 41	1 22	19 4	0 39	18 37	0 13	9 34	17 14
W 13	14 30	26 37	5 11	7 11	0 24	21 34	0 31	15 35	1 9	2 36	1 28	14 43	1 22	19 4	0 39	18 36	0 13	9 34	17 15
T 14	14 12	28 16	5 14	6 29	0 16	21 27	0 28	15 23	1 9	2 38	1 28	14 44	1 22	19 5	0 39	18 36	0 13	9 35	17 15
F 15	13 53	28 24	5 0	5 46	0 8	21 19	0 25	15 10	1 9	2 41	1 28	14 46	1 22	19 5	0 39	18 35	0 13	9 35	17 15
S 16	13 34	27 5	4 33	5 5	0s 1	21 11	0 22	14 58	1 9	2 43	1 28	14 48	1 22	19 6	0 39	18 35	0 13	9 36	17 16
S 17	13 15	24 28	3 54	4 23	0 9	21 2	0 18	14 45	1 9	2 45	1 29	14 49	1 22	19 6	0 39	18 34	0 13	9 36	17 16
M 18	12 56	20 48	3 4	3 42	0 18	20 52	0 15	14 33	1 9	2 48	1 29	14 51	1 22	19 7	0 39	18 34	0 13	9 37	17 16
T 19	12 36	16 18	2 7	3 1	0 27	20 42	0 12	14 20	1 9	2 50	1 29	14 52	1 22	19 8	0 39	18 33	0 13	9 37	17 17
W 20	12 16	11 14	1 5	2 21	0 36	20 31	0 9	14 7	1 9	2 53	1 29	14 54	1 23	19 8	0 39	18 33	0 13	9 38	17 17
T 21	11 56	5 48	0 0	1 41	0 45	20 20	0 6	13 54	1 9	2 56	1 30	14 55	1 23	19 9	0 39	18 32	0 13	9 38	17 17
F 22	11 36	0 10	1n 5	1 1	0 54	20 8	0 3	13 41	1 9	2 58	1 30	14 57	1 23	19 9	0 39	18 32	0 13	9 39	17 17
S 23	11 16	5n28	2 7	0 23	1 4	19 55	0 0	13 28	1 9	3 1	1 30	14 58	1 23	19 10	0 39	18 31	0 13	9 39	17 18
S 24	10 55	10 57	3 4	0s15	1 13	19 42	0n 3	13 15	1 9	3 4	1 30	15 0	1 23	19 10	0 39	18 31	0 13	9 40	17 18
M 25	10 35	16 6	3 54	0 53	1 23	19 28	0 5	13 1	1 9	3 7	1 30	15 1	1 23	19 11	0 39	18 30	0 13	9 40	17 18
T 26	10 14	20 41	4 34	1 29	1 32	19 14	0 8	12 48	1 9	3 9	1 30	15 3	1 23	19 11	0 39	18 30	0 13	9 41	17 18
W 27	9 53	24 30	5 2	2 5	1 42	18 59	0 11	12 34	1 9	3 12	1 31	15 4	1 23	19 12	0 39	18 29	0 13	9 41	17 19
T 28	9 32	27 12	5 16	2 40	1 52	18 44	0 14	12 21	1 9	3 15	1 31	15 6	1 23	19 12	0 39	18 29	0 13	9 42	17 19
F 29	9 10	28 30	5 14	3 14	2 1	18 28	0 17	12 7	1 9	3 18	1 31	15 7	1 23	19 13	0 39	18 28	0 13	9 43	17 19
S 30	8 49	28 8	4 55	3 47	2 11	18 12	0 20	11 54	1 9	3 21	1 31	15 9	1 23	19 13	0 39	18 28	0 13	9 43	17 19
S 31	8n27	25n58	4n17	4s19	2s20	17n55	0n22	11n40	1n 8	3s24	1s31	15s10	1s23	19s14	0s39	18n27	0s13	9s44	17s20

Julian Day Number = 2481342.5, Delta T = 85.32 sec
Ecliptic obliquity = 23°25'52, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°52'48, Lahiri = 24°59'49

ASTRODIENST EPHEMERIS for the year 2081
geocentric

SEPTEMBER 2081

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 43 23	9 ^h 16'12	5 ^h 02'51	6 ^h 24'24	11 ^h 02'54	3 ^h 11'05	24 ^h R50	22 ^h R52	6 ^h R39	6 ^h 02'26	15 ^h R56	15 ^h R20	15 ^h 31'31	16 ^h 21'21	20 ^h R 2	M 1
T 2	22 47 19	10 ^h 14'16	20 ^h 44	7 ^h 16	13 ^h 7	3 ^h 43	24 ^h 42	22 ^h 48	6 ^h 37	6 ^h 28	15 ^h 55	15 ^h 19	15 ^h 28	16 ^h 27	20 ^h 8 2	T 2
W 3	22 51 16	11 ^h 12'22	5 ^h 11'51	8 ^h 6	14 ^h 19	4 ^h 21	24 ^h 35	22 ^h 44	6 ^h 35	6 ^h 30	15 ^h 54	15 ^h 19	15 ^h 25	16 ^h 34	20 ^h 1	W 3
T 4	22 55 12	12 ^h 10'30	21 ^h 2	8 ^h 53	15 ^h 32	5 ^h 0	24 ^h 27	22 ^h 40	6 ^h 33	6 ^h 31	15 ^h 53	15 ^h D19	15 ^h 21	16 ^h 41	20 ^h 0	T 4
F 5	22 59 9	13 ^h 8'39	6 ^h 10	9 ^h 36	16 ^h 45	5 ^h 38	24 ^h 19	22 ^h 36	6 ^h 32	6 ^h 33	15 ^h 52	15 ^h 19	15 ^h 18	16 ^h 47	20 ^h 0	F 5
S 6	23 3 5	14 ^h 6'50	21 ^h 4	10 ^h 15	17 ^h 58	6 ^h 16	24 ^h 12	22 ^h 32	6 ^h 30	6 ^h 35	15 ^h 51	15 ^h 19	15 ^h 15	16 ^h 54	19 ^h 59	S 6
S 7	23 7 2	15 ^h 5'02	5 ^h 11'37	10 ^h 50	19 ^h 11	6 ^h 54	24 ^h 4	22 ^h 28	6 ^h 28	6 ^h 37	15 ^h 50	15 ^h R19	15 ^h 12	17 ^h 1	19 ^h 58	S 7
M 8	23 10 58	16 ^h 3'16	19 ^h 47	11 ^h 21	20 ^h 24	7 ^h 32	23 ^h 56	22 ^h 24	6 ^h 26	6 ^h 39	15 ^h 50	15 ^h 19	15 ^h 9	17 ^h 7	19 ^h 57	M 8
T 9	23 14 55	17 ^h 1'31	3 ^h 11'30	11 ^h 47	21 ^h 38	8 ^h 11	23 ^h 48	22 ^h 20	6 ^h 25	6 ^h 41	15 ^h 49	15 ^h 19	15 ^h 6	17 ^h 14	19 ^h 56	T 9
W10	23 18 52	17 ^h 59'48	16 ^h 48	12 ^h 9	22 ^h 51	8 ^h 49	23 ^h 40	22 ^h 16	6 ^h 23	6 ^h 42	15 ^h 48	15 ^h D19	15 ^h 2	17 ^h 20	19 ^h 55	W10
T 11	23 22 48	18 ^h 58'07	29 ^h 42	12 ^h 25	24 ^h 4	9 ^h 27	23 ^h 32	22 ^h 12	6 ^h 22	6 ^h 44	15 ^h 47	15 ^h 19	14 ^h 59	17 ^h 27	19 ^h 54	T 11
F 12	23 26 45	19 ^h 56'26	12 ^h 31'17	12 ^h 36	25 ^h 17	10 ^h 5	23 ^h 24	22 ^h 9	6 ^h 20	6 ^h 46	15 ^h 45	15 ^h 19	14 ^h 56	17 ^h 34	19 ^h 53	F 12
S 13	23 30 41	20 ^h 54'48	24 ^h 35	12 ^h R41	26 ^h 31	10 ^h 43	23 ^h 16	22 ^h 5	6 ^h 19	6 ^h 48	15 ^h 44	15 ^h 20	14 ^h 53	17 ^h 40	19 ^h 52	S 13
S 14	23 34 38	21 ^h 53'11	6 ^h 41	12 ^h 40	27 ^h 44	11 ^h 21	23 ^h 9	22 ^h 1	6 ^h 17	6 ^h 49	15 ^h 43	15 ^h 20	14 ^h 50	17 ^h 47	19 ^h 51	S 14
M15	23 38 34	22 ^h 51'36	18 ^h 38	12 ^h 33	28 ^h 58	12 ^h 0	23 ^h 1	21 ^h 58	6 ^h 16	6 ^h 51	15 ^h 42	15 ^h 21	14 ^h 46	17 ^h 54	19 ^h 50	M15
T 16	23 42 31	23 ^h 50'02	0 ^h 11'29	12 ^h 19	0 ^h 11	12 ^h 38	22 ^h 53	21 ^h 54	6 ^h 14	6 ^h 53	15 ^h 41	15 ^h 22	14 ^h 43	18 ^h 0	19 ^h 48	T 16
W17	23 46 27	24 ^h 48'30	12 ^h 17	11 ^h 58	1 ^h 25	13 ^h 16	22 ^h 45	21 ^h 51	6 ^h 13	6 ^h 54	15 ^h 40	15 ^h R22	14 ^h 40	18 ^h 7	19 ^h 47	W17
T 18	23 50 24	25 ^h 47'00	24 ^h 5	11 ^h 30	2 ^h 38	13 ^h 54	22 ^h 37	21 ^h 48	6 ^h 12	6 ^h 56	15 ^h 39	15 ^h 22	14 ^h 37	18 ^h 14	19 ^h 46	T 18
F 19	23 54 21	26 ^h 45'32	5 ^h 11'54	10 ^h 55	3 ^h 52	14 ^h 32	22 ^h 29	21 ^h 44	6 ^h 10	6 ^h 57	15 ^h 38	15 ^h 21	14 ^h 34	18 ^h 20	19 ^h 44	F 19
S 20	23 58 17	27 ^h 44'05	17 ^h 48	10 ^h 14	5 ^h 6	15 ^h 11	22 ^h 21	21 ^h 41	6 ^h 9	6 ^h 59	15 ^h 37	15 ^h 20	14 ^h 31	18 ^h 27	19 ^h 43	S 20
S 21	0 2 14	28 ^h 42'41	29 ^h 48	9 ^h 26	6 ^h 20	15 ^h 49	22 ^h 13	21 ^h 38	6 ^h 8	7 ^h 1	15 ^h 36	15 ^h 18	14 ^h 27	18 ^h 34	19 ^h 41	S 21
M22	0 6 10	29 ^h 41'19	11 ^h 57	8 ^h 33	7 ^h 33	16 ^h 27	22 ^h 5	21 ^h 35	6 ^h 7	7 ^h 2	15 ^h 35	15 ^h 16	14 ^h 24	18 ^h 40	19 ^h 40	M22
T 23	0 10 7	0 ^h 11'59	24 ^h 17	7 ^h 34	8 ^h 47	17 ^h 5	21 ^h 57	21 ^h 32	6 ^h 6	7 ^h 4	15 ^h 34	15 ^h 14	14 ^h 21	18 ^h 47	19 ^h 38	T 23
W24	0 14 3	1 ^h 38'41	6 ^h 11	6 ^h 32	10 ^h 1	17 ^h 43	21 ^h 49	21 ^h 29	6 ^h 5	7 ^h 5	15 ^h 33	15 ^h 12	14 ^h 18	18 ^h 53	19 ^h 36	W24
T 25	0 18 0	2 ^h 37'26	19 ^h 40	5 ^h 27	11 ^h 15	18 ^h 22	21 ^h 42	21 ^h 26	6 ^h 4	7 ^h 6	15 ^h 31	15 ^h 11	14 ^h 15	19 ^h 0	19 ^h 34	T 25
F 26	0 21 56	3 ^h 36'12	2 ^h 49	4 ^h 21	12 ^h 29	19 ^h 0	21 ^h 34	21 ^h 24	6 ^h 3	7 ^h 8	15 ^h 30	15 ^h D10	14 ^h 12	19 ^h 7	19 ^h 33	F 26
S 27	0 25 53	4 ^h 35'01	16 ^h 20	3 ^h 15	13 ^h 43	19 ^h 38	21 ^h 26	21 ^h 21	6 ^h 2	7 ^h 9	15 ^h 29	15 ^h 11	14 ^h 8	19 ^h 13	19 ^h 31	S 27
S 28	0 29 50	5 ^h 33'53	0 ^h 15	2 ^h 12	14 ^h 57	20 ^h 16	21 ^h 19	21 ^h 18	6 ^h 1	7 ^h 11	15 ^h 28	15 ^h 12	14 ^h 5	19 ^h 20	19 ^h 29	S 28
M29	0 33 46	6 ^h 32'46	14 ^h 32	1 ^h 12	16 ^h 12	20 ^h 54	21 ^h 11	21 ^h 16	6 ^h 0	7 ^h 12	15 ^h 27	15 ^h 13	14 ^h 2	19 ^h 27	19 ^h 27	M29
T 30	0 37 43	7 ^h 31'42	29 ^h 12	0 ^h 18	17 ^h 26	21 ^h 33	21 ^h 8 4	21 ^h 13	6 ^h 0	7 ^h 13	15 ^h 26	15 ^h 14	13 ^h 59	19 ^h 33	19 ^h 25	T 30

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ASTRODIENST EPHEMERIS for the year 2081

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T 2	0 45 36	9°29'40	29°14	28♂51	19°54	22°49	20♂50	21♂ 9	5♂58	7°16	15°Y23	15♂14	13°52	19°47	19♂21	T 2
F 3	0 49 32	10°28'42	14♂21	28°22	21° 9	23°27	20°42	21° 7	5°58	7°17	15°22	15°13	13°49	19°53	19°19	F 3
S 4	0 53 29	11°27'46	29°21	28° 1	22°23	24° 6	20°36	21° 5	5°57	7°18	15°21	15°10	13°46	20° 0	19°16	S 4
S 5	0 57 25	12°26'52	14♂ 4	27°D52	23°37	24°44	20°29	21° 3	5°57	7°19	15°20	15° 6	13°43	20° 7	19°14	S 5
M 6	1 1 22	13°26'00	28°23	27°53	24°52	25°22	20°22	21° 1	5°56	7°20	15°19	15° 2	13°40	20°13	19°12	M 6
T 7	1 5 18	14°25'10	12♂16	28° 4	26° 6	26° 0	20°15	20°59	5°56	7°22	15°18	14°58	13°37	20°20	19°10	T 7
W 8	1 9 15	15°24'22	25°40	28°26	27°21	26°39	20° 9	20°57	5°55	7°23	15°16	14°55	13°33	20°27	19° 7	W 8
T 9	1 13 12	16°23'35	8♂38	28°57	28°35	27°17	20° 2	20°56	5°55	7°24	15°15	14°54	13°30	20°33	19° 5	T 9
F 10	1 17 8	17°22'50	21°13	29°38	29°50	27°55	19°56	20°54	5°55	7°25	15°14	14°D53	13°27	20°40	19° 3	F 10
S 11	1 21 5	18°22'07	3♂28	0♂27	1♂ 4	28°33	19°50	20°53	5°54	7°26	15°13	14°54	13°24	20°46	19° 0	S 11
S 12	1 25 1	19°21'26	15°30	1°24	2°19	29°12	19°44	20°51	5°54	7°27	15°12	14°56	13°21	20°53	18°58	S 12
M13	1 28 58	20°20'46	27°22	2°28	3°34	29°50	19°38	20°50	5°54	7°28	15°11	14°58	13°17	21° 0	18°55	M13
T 14	1 32 54	21°20'08	9♂10	3°38	4°48	0♂28	19°32	20°49	5°54	7°28	15° 9	14°R59	13°14	21° 6	18°53	T 14
W15	1 36 51	22°19'32	20°57	4°54	6° 3	1° 7	19°27	20°48	5°D54	7°29	15° 8	14°59	13°11	21°13	18°50	W15
T 16	1 40 47	23°18'58	2°Y47	6°14	7°18	1°45	19°22	20°47	5°54	7°30	15° 7	14°57	13° 8	21°20	18°47	T 16
F 17	1 44 44	24°18'26	14°42	7°39	8°33	2°23	19°16	20°46	5°54	7°31	15° 6	14°54	13° 5	21°26	18°45	F 17
S 18	1 48 41	25°17'56	26°45	9° 7	9°47	3° 1	19°11	20°46	5°54	7°32	15° 5	14°48	13° 2	21°33	18°42	S 18
S 19	1 52 37	26°17'27	8♂58	10°38	11° 2	3°40	19° 6	20°45	5°54	7°32	15° 4	14°41	12°58	21°40	18°39	S 19
M20	1 56 34	27°17'01	21°20	12°11	12°17	4°18	19° 2	20°45	5°55	7°33	15° 3	14°33	12°55	21°46	18°36	M20
T 21	2 0 30	28°16'37	3♂54	13°46	13°32	4°56	18°57	20°44	5°55	7°34	15° 1	14°25	12°52	21°53	18°34	T 21
W22	2 4 27	29°16'16	16°39	15°23	14°47	5°35	18°53	20°44	5°55	7°34	15° 0	14°18	12°49	22° 0	18°31	W22
T 23	2 8 23	0♂15°56	29°38	17° 1	16° 2	6°13	18°49	20°44	5°56	7°35	14°59	14°12	12°46	22° 6	18°28	T 23
F 24	2 12 20	1°15'39	12♂51	18°40	17°17	6°51	18°45	20°43	5°56	7°36	14°58	14° 9	12°43	22°13	18°25	F 24
S 25	2 16 16	2°15'24	26°19	20°20	18°32	7°30	18°41	20°D43	5°57	7°36	14°57	14°D 7	12°39	22°19	18°22	S 25
S 26	2 20 13	3°15'11	10♂ 5	22° 0	19°47	8° 8	18°37	20°44	5°57	7°37	14°56	14° 7	12°36	22°26	18°20	S 26
M27	2 24 10	4°15'01	24° 7	23°41	21° 2	8°47	18°34	20°44	5°58	7°37	14°55	14° 8	12°33	22°33	18°17	M27
T 28	2 28 6	5°14'52	8♂27	25°21	22°17	9°25	18°31	20°44	5°58	7°38	14°54	14°R 9	12°30	22°39	18°14	T 28
W29	2 32 3	6°14'46	23° 2	27° 2	23°32	10° 3	18°28	20°44	5°59	7°38	14°53	14° 9	12°27	22°46	18°11	W29
T 30	2 35 59	7°14'42	7♂49	28°42	24°47	10°42	18°25	20°45	6° 0	7°38	14°52	14° 6	12°23	22°53	18° 8	T 30
F 31	2 39 56	8♂14'40	22♂40	0♂23	26♂ 2	11♂20	18♂22	20♂46	6♂ 1	7♂39	14°Y51	14♂ 2	12♂20	22♂59	18♂ 5	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	decl lat
W 1	3s22	6n20	0n 6	0s54	1s11	5n45	1n23	4n 6	1n 6	5s 0	1s33	15s45	1s23	19s24	0s39	18n15
T 2	3 46	0s52	1s16	0 20	0 51	5 17	1 24	3 51	1 6	5 3	1 32	15 45	1 23	19 24	0 39	18 15
F 3	4 9	8 1	2 33	0n10	0 31	4 48	1 25	3 36	1 5	5 6	1 32	15 46	1 23	19 24	0 39	18 14
S 4	4 32	14 39	3 39	0 36	0 12	4 20	1 26	3 21	1 5	5 9	1 32	15 47	1 23	19 24	0 38	18 14
S 5	4 55	20 20	4 29	0 56	0n 6	3 51	1 26	3 5	1 5	5 11	1 32	15 47	1 23	19 24	0 38	18 14
M 6	5 18	24 40	5 0	1 12	0 23	3 22	1 27	2 50	1 5	5 14	1 32	15 48	1 23	19 24	0 38	18 13
T 7	5 41	27 26	5 13	1 22	0 39	2 53	1 28	2 35	1 5	5 16	1 32	15 48	1 23	19 24	0 38	18 13
W 8	6 4	28 29	5 8	1 26	0 53	2 24	1 28	2 19	1 5	5 19	1 32	15 49	1 23	19 24	0 38	18 13
T 9	6 27	27 56	4 47	1 26	1 6	1 55	1 29	2 4	1 5	5 21	1 32	15 49	1 23	19 24	0 38	18 13
F 10	6 49	25 55	4 13	1 20	1 18	1 26	1 29	1 49	1 4	5 23	1 32	15 50	1 23	19 24	0 38	18 12
S 11	7 12	22 44	3 28	1 10	1 28	0 56	1 29	1 33	1 4	5 26	1 32	15 50	1 23	19 24	0 38	18 12
S 12	7 34	18 38	2 34	0 55	1 36	0 27	1 30	1 18	1 4	5 28	1 31	15 50	1 22	19 24	0 38	18 12
M13	7 57	13 52	1 35	0 36	1 44	0s 2	1 30	1 3	1 4	5 30	1 31	15 51	1 22	19 24	0 38	18 12
T 14	8 19	8 37	0 32	0 14	1 49	0 32	1 30	0 47	1 4	5 32	1 31	15 51	1 22	19 24	0 38	18 11
W15	8 41	3 5	0n33	0s12	1 54	1 1	1 30	0 32	1 4	5 34	1 31	15 51	1 22	19 24	0 38	18 11
T 16	9 3	2n34	1 35	0 41	1 57	1 31	1 30	0 17	1 3	5 36	1 31	15 52	1 22	19 24	0 38	18 11
F 17	9 25	8 10	2 35	1 12	2 0	2 0	1 30	0 1	1 3	5 38	1 31	15 52	1 22	19 24	0 38	18 11
S 18	9 47	13 32	3 27	1 45	2 1	2 30	1 30	0s14	1 3	5 40	1 30	15 52	1 22	19 24	0 38	18 11
S 19	10 9	18 26	4 11	2 21	2 1	2 59	1 30	0 30	1 3	5 42	1 30	15 52	1 22	19 24	0 38	18 10
M20	10 30	22 39	4 44	2 58	2 1	3 29	1 30	0 45	1 3	5 43	1 30	15 52	1 22	19 24	0 38	18 10
T 21	10 51	25 53	5 3	3 36	1 59	3 58	1 29	1 0	1 3	5 45	1 30	15 52	1 22	19 24	0 38	18 10
W22	11 13	27 52	5 8	4 15	1 57	4 27	1 29	1 16	1 2	5 46	1 30	15 52	1 22	19 24	0 38	18 10
T 23	11 34	28 23	4 57	4 55	1 55	4 57	1 28	1 31	1 2	5 48	1 30	15 52	1 22	19 24	0 38	18 10
F 24	11 55	27 18	4 31	5 35	1 52	5 26	1 28	1 46	1 2	5 49	1 29	15 52	1 22	19 24	0 38	18 10
S 25	12 15	24 38	3 49	6 16	1 48	5 55	1 27	2 2	1 2	5 51	1 29	15 52	1 22	19 24	0 38	18 9
S 26	12 36	20 30	2 53	6 58	1 44	6 24	1 27	2 17	1 2	5 52	1 29	15 52	1 22	19 23	0 38	18 9
M27	12 56	15 8	1 46	7 39	1 39	6 53	1 26	2 32	1 1	5 53	1 29	15 52	1 22	19 23	0 38	18 9
T 28	13 16	8 52	0 31	8 20	1 34	7 21	1 25	2 48	1 1	5 54	1 29	15 52	1 22	19 23	0 38	18 9
W29	13 36	2 2	0s48	9 2	1 29	7 50	1 24	3 3	1 1	5 55	1 28	15 52	1 21	19 23	0 38	18 9
T 30	13 56	4s59	2 4	9 43	1 24	8 18	1 23	3 18	1 1	5 56	1 28	15 51	1 21	19 23	0 38	18 9
F 31	14s15	11s47	3s12	10s23	1n18	8s46	1n22	3s33	1n 0	5s57	1s28	15s51	1s21	19s22	0s38	18n 9

Julian Day Number = 2481403.5, Delta T = 85.39 sec
 Ecliptic obliquity = 23°25'53, Nutation = 0°00'04, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°52'57, Lahiri = 24°59'57

ASTRODIENST EPHEMERIS for the year 2081
geocentric

NOVEMBER 2081

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 43 52	9♉14'40	7♉29	2♉3	27♉17	11♉59	18°R20	20♉46	6♉1	7♉39	14°R49	13°R55	12♉17	23♉6	18°R 2	S 1	
S 2	2 47 49	10°14'42	22° 6	3°43	28°32	12°37	18♉17	20°47	6° 2	7°39	14°R48	13♉46	12°14	23°13	17♉59	S 2	
M 3	2 51 45	11°14'46	6♉26	5°23	29°48	13°15	18°15	20°48	6° 3	7°39	14°47	13°36	12°11	23°19	17°56	M 3	
T 4	2 55 42	12°14'52	20°21	7° 2	1♉3	13°54	18°13	20°49	6° 4	7°40	14°46	13°27	12° 8	23°26	17°53	T 4	
W 5	2 59 39	13°14'59	3♉50	8°41	2°18	14°32	18°12	20°50	6° 5	7°40	14°45	13°19	12° 4	23°33	17°50	W 5	
T 6	3 3 35	14°15'08	16°52	10°19	3°33	15°11	18°10	20°51	6° 6	7°40	14°44	13°13	12° 1	23°39	17°47	T 6	
F 7	3 7 32	15°15'19	29°29	11°58	4°48	15°49	18° 9	20°53	6° 8	7°40	14°43	13°10	11°58	23°46	17°44	F 7	
S 8	3 11 28	16°15'30	11♉47	13°35	6° 4	16°28	18° 8	20°54	6° 9	7°40	14°42	13°D 8	11°55	23°53	17°41	S 8	
S 9	3 15 25	17°15'44	23°49	15°13	7°19	17° 6	18° 7	20°56	6°10	7°R40	14°41	13° 8	11°52	23°59	17°38	S 9	
M10	3 19 21	18°15'58	5♉40	16°50	8°34	17°45	18° 7	20°57	6°11	7°40	14°41	13° 9	11°49	24° 6	17°35	M10	
T 11	3 23 18	19°16'15	17°28	18°27	9°49	18°23	18° 6	20°59	6°13	7°40	14°40	13°R 9	11°45	24°12	17°32	T 11	
W12	3 27 14	20°16'32	29°16	20° 3	11° 5	19° 2	18° 6	21° 1	6°14	7°40	14°39	13° 8	11°42	24°19	17°29	W12	
T 13	3 31 11	21°16'52	11♉9	21°39	12°20	19°40	18°D 6	21° 3	6°15	7°40	14°38	13° 4	11°39	24°26	17°26	T 13	
F 14	3 35 8	22°17'12	23°11	23°15	13°35	20°18	18° 6	21° 5	6°17	7°40	14°37	12°58	11°36	24°32	17°23	F 14	
S 15	3 39 4	23°17'35	5♉24	24°50	14°51	20°57	18° 7	21° 7	6°18	7°40	14°36	12°48	11°33	24°39	17°20	S 15	
S 16	3 43 1	24°17'58	17°51	26°25	16° 6	21°35	18° 7	21° 9	6°20	7°39	14°35	12°37	11°29	24°46	17°17	S 16	
M17	3 46 57	25°18'24	0♉31	28° 0	17°21	22°14	18° 8	21°12	6°22	7°39	14°34	12°24	11°26	24°52	17°14	M17	
T 18	3 50 54	26°18'51	13°25	29°35	18°37	22°53	18° 9	21°14	6°23	7°39	14°33	12°11	11°23	24°59	17°11	T 18	
W19	3 54 50	27°19'20	26°31	1♉9	19°52	23°31	18°10	21°16	6°25	7°39	14°33	11°59	11°20	25° 6	17° 8	W19	
T 20	3 58 47	28°19'50	9♉49	2°43	21° 7	24°10	18°12	21°19	6°27	7°38	14°32	11°49	11°17	25°12	17° 5	T 20	
F 21	4 2 44	29°20'23	23°17	4°17	22°23	24°48	18°13	21°22	6°29	7°38	14°31	11°42	11°14	25°19	17° 2	F 21	
S 22	4 6 40	0♉20'56	6♉54	5°51	23°38	25°27	18°15	21°25	6°30	7°37	14°30	11°38	11°10	25°26	16°59	S 22	
S 23	4 10 37	1°21'32	20°41	7°24	24°54	26° 5	18°17	21°27	6°32	7°37	14°30	11°36	11° 7	25°32	16°56	S 23	
M24	4 14 33	2°22'09	4♉38	8°57	26° 9	26°44	18°19	21°30	6°34	7°36	14°29	11°36	11° 4	25°39	16°53	M24	
T 25	4 18 30	3°22'48	18°44	10°31	27°25	27°22	18°22	21°34	6°36	7°36	14°28	11°36	11° 1	25°46	16°50	T 25	
W26	4 22 26	4°23'29	2♉58	12° 4	28°40	28° 1	18°25	21°37	6°38	7°35	14°27	11°34	10°58	25°52	16°47	W26	
T 27	4 26 23	5°24'11	17°20	13°37	29°55	28°40	18°27	21°40	6°40	7°35	14°27	11°31	10°55	25°59	16°44	T 27	
F 28	4 30 19	6°24'55	1♉46	15° 9	1♉11	29°18	18°30	21°43	6°42	7°34	14°26	11°24	10°51	26° 6	16°42	F 28	
S 29	4 34 16	7°25'41	16°10	16°42	2°26	29°57	18°34	21°47	6°45	7°34	14°25	11°15	10°48	26°12	16°39	S 29	
S 30	4 38 13	8♉26'28	0♉27	18♉14	3♉42	0♉36	18♉37	21♉50	6♉47	7♉233	14°R25	11♉3	10♉45	26♉19	16♉36	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	14s34	17s53	4s 6	11s 3	1n12	9s14	1n21	3s49	1n 0	5s58	1s28	15s51	1s21	19s22	0s38	18n 9	0s13	10s11	17s22	6s20	6s57	1s51	15n 6	2s11				
S 2	14 53	22 51	4 44	11 43	1 6	9 42	1 20	4 4	1 0	5 58	1 28	15 51	1 21	19 22	0 38	18 9	0 13	10 11	17 22	6 23	6 58	1 48	15 5	2 11				
M 3	15 12	26 21	5 3	12 23	0 59	10 10	1 19	4 19	1 0	5 59	1 27	15 50	1 21	19 22	0 38	18 9	0 13	10 12	17 22	6 27	6 59	1 44	15 4	2 11				
T 4	15 30	28 7	5 3	13 1	0 53	10 37	1 18	4 34	0 59	5 59	1 27	15 50	1 21	19 21	0 38	18 9	0 13	10 12	17 22	6 30	7 1	1 41	15 4	2 11				
W 5	15 49	28 8	4 46	13 39	0 46	11 4	1 16	4 49	0 59	6 0	1 27	15 49	1 21	19 21	0 38	18 8	0 13	10 12	17 22	6 33	7 2	1 37	15 3	2 11				
T 6	16 7	26 34	4 14	14 17	0 40	11 31	1 15	5 4	0 59	6 0	1 27	15 49	1 21	19 21	0 38	18 8	0 13	10 12	17 21	6 35	7 3	1 34	15 2	2 11				
F 7	16 24	23 42	3 31	14 54	0 33	11 58	1 14	5 19	0 59	6 1	1 26	15 48	1 21	19 20	0 38	18 8	0 13	10 12	17 21	6 37	7 4	1 30	15 1	2 11				
S 8	16 42	19 48	2 39	15 30	0 26	12 24	1 12	5 34	0 59	6 1	1 26	15 48	1 21	19 20	0 38	18 8	0 13	10 13	17 21	6 37	7 5	1 27	15 0	2 11				
S 9	16 59	15 11	1 41	16 5	0 20	12 50	1 11	5 49	0 58	6 1	1 26	15 47	1 21	19 20	0 38	18 8	0 13	10 13	17 21	6 37	7 7	1 24	14 59	2 11				
M10	17 16	10 3	0 40	16 39	0 13	13 16	1 9	6 4	0 58	6 1	1 26	15 47	1 21	19 19	0 37	18 8	0 13	10 13	17 21	6 37	7 8	1 20	14 58	2 12				
T 11	17 32	4 36	0n23	17 13	0 6	13 41	1 8	6 19	0 58	6 1	1 25	15 46	1 21	19 19	0 37	18 8	0 13	10 13	17 20	6 37	7 9	1 17	14 57	2 12				
W12	17 49	1n 0	1 25	17 45	0s 1	14 6	1 6	6 34	0 57	6 1	1 25	15 45	1 20	19 19	0 37	18 8	0 13	10 13	17 20	6 38	7 10	1 13	14 56	2 12				
T 13	18 4	6 36	2 23	18 17	0 7	14 31	1 4	6 48	0 57	6 0	1 25	15 45	1 20	19 18	0 37	18 9	0 13	10 13	17 20	6 39	7 11	1 10	14 55	2 12				
F 14	18 20	12 2	3 16	18 48	0 14	14 55	1 3	7 3	0 57	6 0	1 25	15 44	1 20	19 18	0 37	18 9	0 13	10 14	17 20	6 41	7 13	1 6	14 54	2 12				
S 15	18 35	17 5	4 0	19 18	0 21	15 19	1 1	7 18	0 57	6 0	1 24	15 43	1 20	19 18	0 37	18 9	0 13	10 14	17 20	6 45	7 14	1 3	14 53	2 12				
S 16	18 50	21 31	4 34	19 47	0 27	15 42	0 59	7 33	0 56	5 59	1 24	15 43	1 20	19 17	0 37	18 9	0 13	10 14	17 19	6 49	7 15	1 0	14 52	2 12				
M17	19 5	25 3	4 55	20 15	0 34	16 6	0 57	7 47	0 56	5 59	1 24	15 42	1 20	19 17	0 37	18 9	0 13	10 14	17 19	6 54	7 16	0 56	14 52	2 12				
T 18	19 19	27 23	5 1	20 42	0 40	16 28	0 55	8 2	0 56	5 58	1 24	15 41	1 20	19 16	0 37	18 9	0 13	10 14	17 19	6 59	7 18	0 53	14 51	2 12				
W19	19 33	28 15	4 52	21 8	0 46	16 51	0 53	8 16	0 56	5 57	1 24	15 40	1 20	19 16	0 37	18 9	0 13	10 14	17 19	7 4	7 19	0 49	14 50	2 12				
T 20	19 47	27 30	4 26	21 33	0 53	17 12	0 51	8 31	0 55	5 57	1 23	15 39	1 20	19 15	0 37	18 9	0 13	10 14	17 18	7 8	7 20	0 46	14 49	2 12				
F 21	20 0	25 8	3 46	21 57	0 59	17 34	0 49	8 45	0 55	5 56	1 23	15 38	1 20	19 15	0 37	18 9	0 13	10 14	17 18	7 10	7 21	0 42	14 48	2 12				
S 22	20 13	21 19	2 53	22 20	1 5	17 55	0 47	8 59	0 55	5 55	1 23	15 37	1 20	19 14	0 37	18 9	0 13	10 14	17 18	7 12	7 22	0 39	14 47	2 12				
S 23	20 26	16 18	1 48	22 42	1 11	18 15	0 45	9 14	0 54	5 54	1 23	15 36	1 20	19 14	0 37	18 9	0 13	10 14	17 17	7 13	7 24	0 36	14 46	2 12				
M24	20 38	10 23	0 37	23 2	1 16	18 35	0 43	9 28	0 54	5 53	1 22	15 35	1 20	19 13	0 37	18 9	0 13	10 14	17 17	7 13	7 25	0 32	14 45	2 12				
T 25	20 49	3 53	0s38	23 22	1 22	18 55	0 41	9 42	0 54	5 52	1 22	15 34	1 20	19 13	0 37	18 10	0 13	10 14	17 17	7 13	7 26	0 29	14 45	2 13				
W26	21 1	2s52	1 50	23 40	1 27	19 13	0 39	9 56	0 53	5 50	1 22	15 33	1 20	19 12	0 37	18 10	0 13	10 14	17 17	7 13	7 27	0 25	14 44	2 13				
T 27	21 12	9 32	2 57	23 57	1 32	19 32	0 37	10 10	0 53	5 49	1 22	15 32	1 19	19 12	0 37	18 10	0 13	10 14	17 16	7 15	7 28	0 22	14 43	2 13				
F 28	21 22	15 42	3 52	24 13	1 37	19 50	0 34	10 24	0 53	5 48	1 21	15 31	1 19	19 11	0 37	18 10	0 13	10 14	17 16	7 17	7 30	0 19	14 42	2 13				
S 29	21 33	21 1	4 32	24 28	1 42	20 7	0 32	10 38	0 52	5 46	1 21	15 30	1 19	19 11	0 37	18 10	0 13	10 14	17 16	7 21	7 31	0 15	14 41	2 13				
S 30	21s42	25s 3	4s55	24s41	1s47	20s24	0n30	10s52	0n52	5s44	1s21	15s28	1s19	19s10	0s37	18n10	0s13	10s14	17s15	7s25	7s32	0s12	14n40	2s12				

ASTRODIENST EPHEMERIS for the year 2081
geocentric

DECEMBER 2081

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 42 9	9 ²⁷ 16	14 ²⁷ 31	19 ²⁷ 47	4 ²⁷ 57	1 ¹¹ 14	18 ¹⁸ 41	21 ²¹ 54	6 ²¹ 49	7 ²¹ 32	14 ²¹ 24	10 ²¹ 50	10 ²¹ 42	26 ²¹ 25	16 ²¹ 33	M 1
T 2	4 46 6	10 ²⁸ 05	28 ²⁸ 17	21 ²⁸ 19	6 ²⁸ 13	1 ²⁸ 53	18 ²⁸ 45	21 ²⁸ 58	6 ²⁸ 51	7 ²⁸ 31	14 ²⁸ 24	10 ²⁸ 38	10 ²⁸ 39	26 ²⁸ 32	16 ²⁸ 31	T 2
W 3	4 50 2	11 ²⁸ 56	11 ²⁸ 41	22 ²⁸ 51	7 ²⁸ 28	2 ²⁸ 31	18 ²⁸ 49	22 ²⁸ 1	6 ²⁸ 54	7 ²⁸ 31	14 ²⁸ 23	10 ²⁸ 26	10 ²⁸ 35	26 ²⁸ 39	16 ²⁸ 28	W 3
T 4	4 53 59	12 ²⁹ 47	24 ²⁹ 41	24 ²⁹ 23	8 ²⁹ 44	3 ²⁹ 10	18 ²⁹ 53	22 ²⁹ 5	6 ²⁹ 56	7 ²⁹ 30	14 ²⁹ 23	10 ²⁹ 17	10 ²⁹ 32	26 ²⁹ 45	16 ²⁹ 25	T 4
F 5	4 57 55	13 ³⁰ 40	7 ³⁰ 19	25 ³⁰ 55	9 ³⁰ 59	3 ³⁰ 49	18 ³⁰ 57	22 ³⁰ 9	6 ³⁰ 58	7 ³⁰ 29	14 ³⁰ 22	10 ³⁰ 11	10 ³⁰ 29	26 ³⁰ 52	16 ³⁰ 23	F 5
S 6	5 1 52	14 ³¹ 33	19 ³¹ 38	27 ³¹ 27	11 ³¹ 15	4 ³¹ 27	19 ³¹ 2	22 ³¹ 13	7 ³¹ 1	7 ³¹ 28	14 ³¹ 22	10 ³¹ 8	10 ³¹ 26	26 ³¹ 59	16 ³¹ 20	S 6
S 7	5 5 48	15 ³² 27	1 ³² 41	28 ³² 58	12 ³² 30	5 ³² 6	19 ³² 6	22 ³² 18	7 ³² 3	7 ³² 27	14 ³² 21	10 ³² 7	10 ³² 23	27 ³² 5	16 ³² 17	S 7
M 8	5 9 45	16 ³³ 22	13 ³³ 34	0 ³³ 29	13 ³³ 46	5 ³³ 45	19 ³³ 11	22 ³³ 22	7 ³³ 6	7 ³³ 26	14 ³³ 21	10 ³³ 6	10 ³³ 20	27 ³³ 12	16 ³³ 15	M 8
T 9	5 13 42	17 ³⁴ 17	25 ³⁴ 22	2 ³⁴ 0	15 ³⁴ 1	6 ³⁴ 23	19 ³⁴ 17	22 ³⁴ 26	7 ³⁴ 8	7 ³⁴ 25	14 ³⁴ 20	10 ³⁴ 6	10 ³⁴ 16	27 ³⁴ 19	16 ³⁴ 12	T 9
W10	5 17 38	18 ³⁵ 13	7 ³⁵ 11	3 ³⁵ 31	16 ³⁵ 17	7 ³⁵ 2	19 ³⁵ 22	22 ³⁵ 30	7 ³⁵ 11	7 ³⁵ 25	14 ³⁵ 20	10 ³⁵ 5	10 ³⁵ 13	27 ³⁵ 25	16 ³⁵ 10	W10
T 11	5 21 35	19 ³⁶ 10	19 ³⁶ 6	5 ³⁶ 1	17 ³⁶ 32	7 ³⁶ 41	19 ³⁶ 27	22 ³⁶ 35	7 ³⁶ 13	7 ³⁶ 24	14 ³⁶ 19	10 ³⁶ 2	10 ³⁶ 10	27 ³⁶ 32	16 ³⁶ 8	T 11
F 12	5 25 31	20 ³⁷ 07	1 ³⁷ 12	6 ³⁷ 30	18 ³⁷ 48	8 ³⁷ 19	19 ³⁷ 33	22 ³⁷ 39	7 ³⁷ 16	7 ³⁷ 23	14 ³⁷ 19	9 ³⁷ 56	10 ³⁷ 7	27 ³⁷ 39	16 ³⁷ 5	F 12
S 13	5 29 28	21 ³⁸ 06	13 ³⁸ 32	7 ³⁸ 59	20 ³⁸ 3	8 ³⁸ 58	19 ³⁸ 39	22 ³⁸ 44	7 ³⁸ 19	7 ³⁸ 21	14 ³⁸ 19	9 ³⁸ 47	10 ³⁸ 4	27 ³⁸ 45	16 ³⁸ 3	S 13
S 14	5 33 24	22 ³⁹ 04	26 ³⁹ 10	9 ³⁹ 27	21 ³⁹ 19	9 ³⁹ 37	19 ³⁹ 45	22 ³⁹ 49	7 ³⁹ 22	7 ³⁹ 20	14 ³⁹ 18	9 ³⁹ 36	10 ³⁹ 1	27 ³⁹ 52	16 ³⁹ 1	S 14
M15	5 37 21	23 ⁴⁰ 04	9 ⁴⁰ 11	10 ⁴⁰ 55	22 ⁴⁰ 34	10 ⁴⁰ 16	19 ⁴⁰ 51	22 ⁴⁰ 53	7 ⁴⁰ 24	7 ⁴⁰ 19	14 ⁴⁰ 18	9 ⁴⁰ 23	9 ⁴⁰ 57	27 ⁴⁰ 59	15 ⁴⁰ 58	M15
T 16	5 41 17	24 ⁴¹ 04	22 ⁴¹ 21	12 ⁴¹ 21	23 ⁴¹ 50	10 ⁴¹ 54	19 ⁴¹ 58	22 ⁴¹ 58	7 ⁴¹ 27	7 ⁴¹ 18	14 ⁴¹ 18	9 ⁴¹ 10	9 ⁴¹ 54	28 ⁴¹ 5	15 ⁴¹ 56	T 16
W17	5 45 14	25 ⁴² 05	5 ⁴² 51	13 ⁴² 46	25 ⁴² 5	11 ⁴² 33	20 ⁴² 4	23 ⁴² 3	7 ⁴² 30	7 ⁴² 17	14 ⁴² 17	8 ⁴² 58	9 ⁴² 51	28 ⁴² 12	15 ⁴² 54	W17
T 18	5 49 11	26 ⁴³ 07	19 ⁴³ 34	15 ⁴³ 10	26 ⁴³ 21	12 ⁴³ 12	20 ⁴³ 11	23 ⁴³ 8	7 ⁴³ 33	7 ⁴³ 16	14 ⁴³ 17	8 ⁴³ 48	9 ⁴³ 48	28 ⁴³ 19	15 ⁴³ 52	T 18
F 19	5 53 7	27 ⁴⁴ 10	3 ⁴⁴ 27	16 ⁴⁴ 32	27 ⁴⁴ 36	12 ⁴⁴ 50	20 ⁴⁴ 18	23 ⁴⁴ 13	7 ⁴⁴ 36	7 ⁴⁴ 15	14 ⁴⁴ 17	8 ⁴⁴ 40	9 ⁴⁴ 45	28 ⁴⁴ 25	15 ⁴⁴ 50	F 19
S 20	5 57 4	28 ⁴⁵ 13	17 ⁴⁵ 27	17 ⁴⁵ 51	28 ⁴⁵ 52	13 ⁴⁵ 29	20 ⁴⁵ 25	23 ⁴⁵ 18	7 ⁴⁵ 38	7 ⁴⁵ 13	14 ⁴⁵ 17	8 ⁴⁵ 36	9 ⁴⁵ 41	28 ⁴⁵ 32	15 ⁴⁵ 48	S 20
S 21	6 1 0	29 ⁴⁶ 17	1 ⁴⁶ 30	19 ⁴⁶ 9	0 ⁴⁶ 7	14 ⁴⁶ 8	20 ⁴⁶ 32	23 ⁴⁶ 24	7 ⁴⁶ 41	7 ⁴⁶ 12	14 ⁴⁶ 17	8 ⁴⁶ 34	9 ⁴⁶ 38	28 ⁴⁶ 39	15 ⁴⁶ 46	S 21
M22	6 4 57	0 ⁴⁷ 22	15 ⁴⁷ 34	20 ⁴⁷ 23	1 ⁴⁷ 23	14 ⁴⁷ 47	20 ⁴⁷ 39	23 ⁴⁷ 29	7 ⁴⁷ 44	7 ⁴⁷ 11	14 ⁴⁷ 17	8 ⁴⁷ D34	9 ⁴⁷ 35	28 ⁴⁷ 45	15 ⁴⁷ 44	M22
T 23	6 8 53	1 ⁴⁸ 27	29 ⁴⁸ 40	21 ⁴⁸ 35	2 ⁴⁸ 38	15 ⁴⁸ 25	20 ⁴⁸ 47	23 ⁴⁸ 34	7 ⁴⁸ 47	7 ⁴⁸ 10	14 ⁴⁸ 16	8 ⁴⁸ R35	9 ⁴⁸ 32	28 ⁴⁸ 52	15 ⁴⁸ 42	T 23
W24	6 12 50	2 ⁴⁹ 33	13 ⁴⁹ 45	22 ⁴⁹ 42	3 ⁴⁹ 54	16 ⁴⁹ 4	20 ⁴⁹ 54	23 ⁴⁹ 40	7 ⁴⁹ 50	7 ⁴⁹ 8	14 ⁴⁹ 16	8 ⁴⁹ 34	9 ⁴⁹ 29	28 ⁴⁹ 59	15 ⁴⁹ 40	W24
T 25	6 16 46	3 ⁵⁰ 41	27 ⁵⁰ 49	23 ⁵⁰ 45	5 ⁵⁰ 9	16 ⁵⁰ 43	21 ⁵⁰ 2	23 ⁵⁰ 45	7 ⁵⁰ 53	7 ⁵⁰ 7	14 ⁵⁰ 16	8 ⁵⁰ 32	9 ⁵⁰ 26	29 ⁵⁰ 5	15 ⁵⁰ 38	T 25
F 26	6 20 43	4 ⁵¹ 48	11 ⁵¹ 51	24 ⁵¹ 43	6 ⁵¹ 25	17 ⁵¹ 22	21 ⁵¹ 10	23 ⁵¹ 51	7 ⁵¹ 56	7 ⁵¹ 6	14 ⁵¹ 16	8 ⁵¹ 27	9 ⁵¹ 22	29 ⁵¹ 12	15 ⁵¹ 37	F 26
S 27	6 24 40	5 ⁵² 57	25 ⁵² 47	25 ⁵² 36	7 ⁵² 40	18 ⁵² 1	21 ⁵² 18	23 ⁵² 56	8 ⁵² 0	7 ⁵² 4	14 ⁵² 16	8 ⁵² 19	9 ⁵² 19	29 ⁵² 18	15 ⁵² 35	S 27
S 28	6 28 36	6 ⁵⁴ 06	9 ⁵⁴ 17	26 ⁵⁴ 21	8 ⁵⁴ 56	18 ⁵⁴ 39	21 ⁵⁴ 27	24 ⁵⁴ 2	8 ⁵⁴ 3	7 ⁵⁴ 3	14 ⁵⁴ D16	8 ⁵⁴ 9	9 ⁵⁴ 16	29 ⁵⁴ 25	15 ⁵⁴ 33	S 28
M29	6 32 33	7 ⁵⁵ 15	23 ⁵⁵ 15	26 ⁵⁵ 59	10 ⁵⁵ 11	19 ⁵⁵ 18	21 ⁵⁵ 35	24 ⁵⁵ 8	8 ⁵⁵ 6	7 ⁵⁵ 1	14 ⁵⁵ 16	7 ⁵⁵ 59	9 ⁵⁵ 13	29 ⁵⁵ 32	15 ⁵⁵ 32	M29
T 30	6 36 29	8 ⁵⁶ 25	6 ⁵⁶ 39	27 ⁵⁶ 28	11 ⁵⁶ 27	19 ⁵⁶ 57	21 ⁵⁶ 44	24 ⁵⁶ 13	8 ⁵⁶ 9	7 ⁵⁶ 0	14 ⁵⁶ 16	7 ⁵⁶ 48	9 ⁵⁶ 10	29 ⁵⁶ 38	15 ⁵⁶ 30	T 30
W31	6 40 26	9 ⁵⁷ 35	19 ⁵⁷ 47	27 ⁵⁷ 48	12 ⁵⁷ 42	20 ⁵⁷ 36	21 ⁵⁷ 52	24 ⁵⁷ 19	8 ⁵⁷ 12	6 ⁵⁷ 58	14 ⁵⁷ 16	7 ⁵⁷ 48	9 ⁵⁷ 7	29 ⁵⁷ 45	15 ⁵⁷ 29	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♂	♂	
M 1	21s52	27s29	4s59	24s53	1s51	20s40	0n28	11s 5	0n52	5s43	1s21	15s27	1s19	19s10	0s37	18n11	0s13	10s14	17s15	7s30	7s33	0s 8	14n40	2s13
T 2	22 1	28 11	4 46	25 4	1 55	20 55	0 25	11 19	0 51	5 41	1 20	15 26	1 19	19 9	0 37	18 11	0 13	10 14	17 15	7 35	7 34	0 5	14 39	2 13
W 3	22 9	27 11	4 17	25 13	1 59	21 10	0 23	11 33	0 51	5 39	1 20	15 25	1 19	19 8	0 37	18 11	0 13	10 14	17 15	7 39	7 36	0 1	14 38	2 13
T 4	22 17	24 43	3 36	25 21	2 2	21 25	0 21	11 46	0 51	5 37	1 20	15 23	1 19	19 8	0 37	18 11	0 13	10 14	17 14	7 42	7 37	0n 2	14 37	2 13
F 5	22 25	21 5	2 44	25 28	2 6	21 38	0 18	12 0	0 50	5 35	1 20	15 22	1 19	19 7	0 37	18 11	0 13	10 14	17 14	7 45	7 38	0 5	14 36	2 13
S 6	22 32	16 36	1 46	25 33	2 8	21 51	0 16	12 13	0 50	5 33	1 19	15 21	1 19	19 6	0 37	18 12	0 13	10 14	17 14	7 46	7 39	0 9	14 36	2 13
S 7	22 39	11 34	0 44	25 37	2 11	22 4	0 14	12 26	0 50	5 31	1 19	15 19	1 19	19 6	0 37	18 12	0 13	10 13	17 13	7 47	7 40	0 12	14 35	2 13
M 8	22 45	6 11	0n18	25 39	2 13	22 15	0 11	12 39	0 49	5 29	1 19	15 18	1 19	19 5	0 37	18 12	0 13	10 13	17 13	7 47	7 42	0 16	14 34	2 13
T 9	22 51	0 37	1 20	25 40	2 15	22 27	0 9	12 53	0 49	5 27	1 19	15 16	1 19	19 4	0 37	18 12	0 13	10 13	17 13	7 47	7 43	0 19	14 33	2 13
W10	22 56	4n58	2 18	25 40	2 17	22 37	0 6	13 6	0 49	5 25	1 18	15 15	1 19	19 4	0 37	18 13	0 13	10 13	17 12	7 47	7 44	0 23	14 33	2 13
T 11	23 1	10 25	3 11	25 38	2 18	22 47	0 4	13 18	0 48	5 22	1 18	15 13	1 19	19 3	0 37	18 13	0 13	10 13	17 12	7 48	7 45	0 26	14 32	2 13
F 12	23 6	15 34	3 56	25 34	2 18	22 56	0 2	13 31	0 48	5 20	1 18	15 12	1 19	19 2	0 37	18 13	0 13	10 13	17 12	7 51	7 46	0 29	14 31	2 13
S 13	23 10	20 12	4 30	25 29	2 18	23 4	0s 1	13 44	0 47	5 17	1 18	15 10	1 19	19 2	0 37	18 13	0 13	10 12	17 11	7 54	7 48	0 33	14 31	2 13
S 14	23 14	24 2	4 53	25 23	2 18	23 12	0 3	13 57	0 47	5 15	1 18	15 9	1 19	19 1	0 37	18 14	0 13	10 12	17 11	7 58	7 49	0 36	14 30	2 13
M15	23 17	26 46	5 1	25 15	2 17	23 19	0 6	14 9	0 47	5 12	1 17	15 7	1 18	19 0	0 37	18 14	0 13	10 12	17 11	8 3	7 50	0 40	14 29	2 13
T 16	23 19	28 5	4 53	25 6	2 15	23 25	0 8	14 22	0 46	5 9	1 17	15 5	1 18	19 0	0 37	18 14	0 13	10 12	17 10	8 8	7 51	0 43	14 29	2 13
W17	23 22	27 47	4 29	24 56	2 13	23 31	0 10	14 34	0 46	5 7	1 17	15 4	1 18	18 59	0 37	18 14	0 13	10 12	17 10	8 12	7 52	0 46	14 28	2 13
T 18	23 23	25 47	3 49	24 44	2 10	23 36	0 13	14 46	0 45	5 4	1 17	15 2	1 18	18 58	0 37	18 15	0 13	10 11	17 9	8 16	7 54	0 50	14 28	2 13
F 19	23 25	22 13	2 55	24 30	2 7	23 40	0 15	14 58	0 45	5 1	1 16	15 0	1 18	18 57	0 37	18 15	0 13	10 11	17 9	8 19	7 55	0 53	14 27	2 13
S 20	23 25	17 21	1 50	24 16	2 2	23 43	0 17	15 10	0 44	4 58	1 16	14 59	1 18	18 57	0 37	18 15	0 13	10 11	17 9	8 21	7 56	0 57	14 26	2 13
S 21	23 26	11 31	0 38	24 0	1 57	23 46	0 20	15 22	0 44	4 55	1 16	14 57	1 18	18 56	0 37	18 16	0 13	10 11	17 8	8 21	7 57	1 0	14 26	2 13
M22	23 26	5 7	0s37	23 43	1 51	23 48	0 22	15 34	0 44	4 52	1 16	14 55	1 18	18 55	0 37	18 16	0 13	10 10	17 8	8 21	7 58	1 3	14 25	2 13
T 23	23 25	1s33	1 50	23 25	1 44	23 49	0 24	15 46	0 43	4 49	1 16	14 53	1 18	18 54	0 37	18 16	0 13	10 10	17 8	8 21	8 0	1 7	14 25	2 13
W24	23 24	8 7	2 56	23 6	1 37	23 49	0 27	15 58	0 43	4 45	1 15	14 51	1 18	18 54	0 37	18 17	0 13	10 10	17 7	8 21	8 1	1 10	14 24	2 13
T 25	23 23	14 17	3 51	22 47	1 28	23 49	0 29	16 9	0 42	4 42	1 15	14 50	1 18	18 53	0 37	18 17	0 13	10 10	17 7	8 22	8 2	1 14	14 24	2 13
F 26	23 20	19 41	4 32	22 27	1 18	23 48	0 31	16 20	0 42	4 39	1 15	14 48	1 18	18 52	0 37	18 17	0 13	10 9	17 7	8 24	8 3	1 17	14 23	2 13
S 27	23 18	24 0	4 57	22 6	1 7	23 46	0 33	16 32	0 41	4 35	1 15	14 46	1 18	18 51	0 37	18 18	0 13	10 9	17 6	8 27	8 4	1 21	14 23	2 13
S 28	23 15	26 53	5 4	21 46	0 54	23 43	0 36	16 43	0 41	4 32	1 14	14 44	1 18	18 50	0 37	18 18	0 13	10 9	17 6	8 30	8 6	1 24	14 22	2 13
M29	23 12	28 8	4 53	21 25	0 41	23 40	0 38	16 54	0 40	4 28	1 14	14 42	1 18	18 49	0 37	18 19	0 12	10 8	17 6	8 35	8 7	1 27	14 22	2 13
T 30	23 8	27 42	4 27	21 5	0 26	23 36	0 40	17 5	0 40	4 25	1 14	14 40	1 18	18 49	0 37	18 19	0 12	10 8	17 5	8 39	8 8	1 31	14 22	2 13
W31	23 s 3	25s42	3s46	20s46	0s11	23s31	0s42	17s16	0n39	4s21	1s14	14s38	1s18	18s48	0s37	18n19	0s12	10s 7	17s 5	8s42	8s 9	1n34	14n21	2s12