



# Astrodienst Ephemeris Tables for the year 1931

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 1931  
geocentric

JANUARY 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 38 44	9°36'39	23°35	20°R43	28°M13	15°R35	16°R14	13°342	11°Y29	5°R38	20°R 1	20°R17	19°Y37	5°X49	14°R16	T 1
F 2	6 42 40	10°37'48	7°II 1	19°350	28°49	15°M24	16°36 6	13°50	11°30	5°M37	19°359	20°Y11	19°34	5°56	14°B15	F 2
S 3	6 46 37	11°38'56	20°54	18°48	29°27	15°12	15°58	13°57	11°31	5°37	19°58	20° 1	19°30	6° 2	14°14	S 3
S 4	6 50 33	12°40'05	5°32	17°38	0°X 7	14°59	15°50	14° 4	11°31	5°36	19°57	19°50	19°27	6° 9	14°12	S 4
M 5	6 54 30	13°41'13	19°49	16°22	0°47	14°45	15°42	14°11	11°32	5°35	19°56	19°38	19°24	6°16	14°11	M 5
T 6	6 58 26	14°42'21	4°M37	15° 2	1°29	14°31	15°34	14°18	11°33	5°34	19°54	19°26	19°21	6°22	14°10	T 6
W 7	7 2 23	15°43'30	19°28	13°41	2°11	14°15	15°26	14°25	11°34	5°33	19°53	19°16	19°18	6°29	14° 9	W 7
T 8	7 6 10	16°44'38	4°M14	12°22	2°55	13°59	15°18	14°32	11°35	5°32	19°52	19° 8	19°14	6°36	14° 8	T 8
F 9	7 10 16	17°45'46	18°47	11° 7	3°40	13°43	15°10	14°39	11°35	5°31	19°51	19° 4	19°11	6°42	14° 7	F 9
S 10	7 14 13	18°46'54	3°A 4	9°58	4°26	13°25	15° 2	14°46	11°36	5°30	19°49	19° 2	19° 8	6°49	14° 6	S 10
S 11	7 18 9	19°48'02	17° 3	8°56	5°13	13° 7	14°54	14°53	11°37	5°29	19°48	19° 2	19° 5	6°56	14° 5	S 11
M12	7 22 6	20°49'11	0°M45	8° 3	6° 1	12°49	14°46	15° 1	11°39	5°28	19°47	19° 1	19° 2	7° 2	14° 4	M12
T 13	7 26 2	21°50'19	14°11	7°20	6°49	12°29	14°38	15° 8	11°40	5°27	19°45	19° 0	18°59	7° 9	14° 4	T 13
W14	7 29 59	22°51'27	27°22	6°47	7°39	12° 9	14°30	15°15	11°41	5°26	19°44	18°57	18°55	7°16	14° 3	W14
T 15	7 33 55	23°52'35	10°X21	6°23	8°29	11°49	14°22	15°22	11°42	5°25	19°43	18°50	18°52	7°22	14° 2	T 15
F 16	7 37 52	24°53'43	23° 8	6° 8	9°20	11°28	14°14	15°29	11°43	5°23	19°42	18°40	18°49	7°29	14° 2	F 16
S 17	7 41 49	25°54'51	5°345	6°D 3	10°12	11° 6	14° 6	15°36	11°45	5°22	19°40	18°28	18°46	7°36	14° 1	S 17
S 18	7 45 45	26°55'58	18°12	6° 6	11° 5	10°44	13°58	15°43	11°46	5°21	19°39	18°14	18°43	7°43	14° 1	S 18
M19	7 49 42	27°57'04	0°329	6°17	11°58	10°22	13°50	15°50	11°47	5°20	19°38	17°59	18°40	7°49	14° 1	M19
T 20	7 53 38	28°58'10	12°36	6°35	12°52	9°59	13°43	15°57	11°49	5°19	19°36	17°45	18°36	7°56	14° 0	T 20
W21	7 57 35	29°59'16	24°35	7° 0	13°46	9°36	13°35	16° 4	11°50	5°17	19°35	17°33	18°33	8° 3	14° 0	W21
T 22	8 1 31	1°00'20	6°X28	7°31	14°42	9°13	13°28	16°11	11°52	5°16	19°34	17°24	18°30	8° 9	14° 0	T 22
F 23	8 5 28	2° 1'23	18°16	8° 7	15°37	8°49	13°21	16°18	11°54	5°15	19°33	17°17	18°27	8°16	14° 0	F 23
S 24	8 9 24	3° 2'26	0°Y 3	8°49	16°33	8°25	13°13	16°25	11°55	5°13	19°31	17°14	18°24	8°23	14°D 0	S 24
S 25	8 13 21	4° 3'27	11°53	9°34	17°30	8° 1	13° 6	16°32	11°57	5°12	19°30	17°D12	18°20	8°29	14° 0	S 25
M26	8 17 18	5° 4'28	23°51	10°24	18°28	7°37	12°59	16°39	11°59	5°11	19°29	17°12	18°17	8°36	14° 0	M26
T 27	8 21 14	6° 5'27	6°B 3	11°18	19°25	7°13	12°52	16°45	12° 1	5° 9	19°28	17°R12	18°14	8°43	14° 0	T 27
W28	8 25 11	7° 6'26	18°34	12°14	20°24	6°49	12°45	16°52	12° 2	5° 8	19°26	17°12	18°11	8°49	14° 1	W28
T 29	8 29 7	8° 7'23	1°II28	13°14	21°23	6°25	12°39	16°59	12° 4	5° 6	19°25	17° 9	18° 8	8°56	14° 1	T 29
F 30	8 33 4	9° 8'19	14°51	14°17	22°22	6° 1	12°32	17° 6	12° 6	5° 5	19°24	17° 4	18° 5	9° 3	14° 1	F 30
S 31	8 37 0	10°9'13	28°II44	15°322	23°X21	5°M37	12°326	17°313	12°Y 8	5°M 3	19°323	16°Y57	18°Y 1	9°X 9	14°B 2	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23s 6	21n21	2n46	20s36	1n16	15s45	4n 7	19n47	3n47	22n36	0n 9	22s24	0n21	3n56	0s40	10n 7	0n43
F 2	23 1	25 6	3 40	20 24	1 36	15 51	4 9	19 53	3 49	22 38	0 9	22 23	0 21	3 56	0 40	10 7	0 43
S 3	22 56	27 30	4 23	20 14	1 55	15 57	4 11	19 58	3 52	22 39	0 9	22 22	0 21	3 57	0 40	10 7	0 43
S 4	22 51	28 11	4 50	20 6	2 13	16 3	4 13	20 5	3 54	22 40	0 9	22 22	0 21	3 57	0 40	10 7	0 43
M 5	22 45	26 56	5 0	19 59	2 29	16 10	4 15	20 11	3 57	22 41	0 9	22 21	0 21	3 57	0 40	10 8	0 43
T 6	22 38	23 48	4 50	19 54	2 44	16 17	4 16	20 17	3 59	22 42	0 10	22 20	0 21	3 57	0 40	10 8	0 43
W 7	22 31	19 6	4 20	19 50	2 56	16 25	4 17	20 24	4 1	22 43	0 10	22 20	0 21	3 58	0 40	10 9	0 43
T 8	22 24	13 16	3 33	19 47	3 6	16 32	4 18	20 31	4 3	22 44	0 10	22 19	0 21	3 58	0 40	10 9	0 43
F 9	22 16	6 47	2 32	19 46	3 13	16 40	4 18	20 38	4 5	22 45	0 10	22 18	0 21	3 59	0 40	10 9	0 43
S 10	22 8	0 3	1 23	19 47	3 18	16 48	4 18	20 45	4 7	22 46	0 10	22 17	0 21	3 59	0 40	10 10	0 43
S 11	21 59	6s33	0 10	19 48	3 21	16 56	4 18	20 52	4 9	22 47	0 10	22 17	0 20	3 59	0 40	10 10	0 43
M12	21 50	12 42	1s 2	19 51	3 21	17 5	4 18	20 59	4 11	22 48	0 10	22 16	0 20	4 0	0 40	10 11	0 43
T 13	21 41	18 9	2 9	19 56	3 19	17 13	4 18	21 7	4 13	22 49	0 10	22 15	0 20	4 0	0 40	10 11	0 43
W14	21 31	22 37	3 7	20 1	3 16	17 22	4 17	21 14	4 15	22 50	0 11	22 15	0 20	4 1	0 40	10 11	0 43
T 15	21 20	25 54	3 56	20 7	3 11	17 30	4 16	21 22	4 17	22 51	0 11	22 14	0 20	4 1	0 39	10 12	0 43
F 16	21 10	27 47	4 31	20 14	3 5	17 39	4 15	21 29	4 18	22 52	0 11	22 13	0 20	4 2	0 39	10 12	0 43
S 17	20 58	28 12	4 52	20 22	2 57	17 48	4 14	21 37	4 20	22 53	0 11	22 12	0 20	4 3	0 39	10 13	0 43
S 18	20 47	27 10	5 0	20 30	2 49	17 56	4 13	21 44	4 21	22 54	0 11	22 12	0 20	4 3	0 39	10 13	0 43
M19	20 35	24 49	4 53	20 38	2 40	18 5	4 11	21 52	4 23	22 55	0 11	22 11	0 20	4 4	0 39	10 14	0 43
T 20	20 23	21 23	4 33	20 46	2 31	18 13	4 10	21 59	4 24	22 56	0 11	22 10	0 20	4 4	0 39	10 14	0 43
W21	20 10	17 6	4 0	20 55	2 21	18 22	4 8	22 6	4 25	22 57	0 12	22 9	0 20	4 5	0 39	10 15	0 43
T 22	19 57	12 12	3 18	21 3	2 11	18 30	4 6	22 14	4 26	22 58	0 12	22 9	0 20	4 6	0 39	10 15	0 43
F 23	19 43	6 54	2 27	21 11	2 1	18 38	4 4	22 21	4 27	22 59	0 12	22 8	0 20	4 6	0 39	10 16	0 43
S 24	19 29	1 21	1 30	21 19	1 51	18 46	4 1	22 28	4 28	22 59	0 12	22 7	0 20	4 7	0 39	10 16	0 43
S 25	19 15	4n16	0 28	21 26	1 40	18 54	3 59	22 35	4 28	23 0	0 12	22 6	0 20	4 8	0 39	10 17	0 43
M26	19 0	9 48	0n35	21 33	1 30	19 1	3 56	22 42	4 29	23 1	0 12	22 5	0 20	4 8	0 39	10 17	0 43
T 27	18 46	15 6	1 38	21 39	1 20	19 9	3 54	22 49	4 30	23 2	0 12	22 5	0 19	4 9	0 39	10 18	0 43
W28	18 30	19 54	2 39	21 44	1 9	19 16	3 51	22 56	4 30	23 3	0 12	22 4	0 19	4 10	0 39	10 18	0 43
T 29	18 15	23 56	3 33	21 48	0 59	19 23	3 48	23 2	4 30	23 3	0 12	22 3	0 19	4 11	0 39	10 19	0 43
F 30	17 59	26 51	4 17	21 52	0 49	19 29	3 45	23 8	4 30	23 4	0 13	22 2	0 19	4 11	0 39	10 19	0 43
S 31	17s42	28n15	4n48	21s55	0n40	19s36	3n42	23n14	4n30	23n 5	0n13	22s 1	0n19	4n12	0s39	10n20	0n43

Julian Day Number = 2426342.5, Delta T = 24.41 sec  
Ecliptic obliquity = 23°27'02, Nutation = - 0°00'06, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 23°46'36, Lahiri = 22°53'36

# ASTRODIENST EPHEMERIS for the year 1931

## geocentric

FEBRUARY 1931

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 40 57	11°10'07	13°56' 6	16°32' 29	24°22' 22	5°R14	12°R19	17°31' 19	12°Y10	5°R 2	19°R22	16°R48	17°Y58	9°X16	14°R 2	S 1
M 2	8 44 53	12°10'59	27°52' 5	17°38' 25	25°22' 40	4°R51	12°R13	17°26' 12	12°12' 12	5°R 0	19°R20	16°Y37	17°55' 9	9°23' 23	14°R 3	M 2
T 3	8 48 50	13°11'50	12°02' 57	18°50' 26	26°23' 42	4°27' 12	12° 7' 17	17°33' 12	12°14' 4	5°59' 19	19°19' 16	16°27' 17	17°52' 9	9°29' 29	14°R 3	T 3
W 4	8 52 47	14°12'40	28° 8' 20	20° 3' 27	24° 4° 5	12° 1' 17	17°39' 12	12°16' 4	5°57' 19	19°18' 16	16°19' 17	17°49' 9	17°46' 4	9°36' 36	14°R 4	W 4
T 5	8 56 43	15°13'29	13°17' 17	21°18' 28	28°26' 3	4°42' 11	17°46' 12	12°19' 4	5°56' 19	19°17' 16	16°12' 17	17°46' 9	17°46' 4	9°43' 43	14°R 5	T 5
F 6	9 0 40	16°14'17	28°13' 22	22°34' 29	29°28' 3	4°20' 11	17°52' 12	12°21' 4	5°54' 19	19°16' 16	16° 9' 17	17°42' 9	17°42' 4	9°49' 49	14°R 5	F 6
S 7	9 4 36	17°15'04	12°49' 15	23°52' 0	30°23' 2	5°59' 11	17°59' 12	12°23' 4	5°53' 19	19°15' 16	16°D 7' 17	17°39' 9	17°39' 4	9°56' 56	14°R 6	S 7
S 8	9 8 33	18°15'49	27° 3' 25	11° 1°33	2°38' 11	40° 18° 5	12°25' 4	5°51' 19	19°14' 16	8° 17°36	10° 3' 14	7° 14° 7	S 8			
M 9	9 12 29	19°16'34	10°52' 26	32° 2°36	2°17' 11	34° 18°12	12°28' 4	4°49' 19	19°13' 16	8° 17°33	10° 9' 14	8° 14° 8	M 9			
T 10	9 16 26	20°17'18	24°19' 27	54° 27°54	3°39' 1	57° 11°30	18°18' 12	30° 4°48	19°11' 16	R 9° 17°30	10°16' 14	9° 14° 9	T 10			
W11	9 20 22	21°18'01	7°25' 29	17° 4°43	4°43' 1	38° 11°25	18°25' 12	32° 4°46	19°10' 16	7° 17°26	10°23' 14	10° 14°10	W11			
T 12	9 24 19	22°18'43	20°13' 0	41° 5°47	1°19' 11	20° 18°31	12°35' 4	45° 19° 9	16° 3' 17	23° 10°29	14°12' 14	12° 14°12	T 12			
F 13	9 28 16	23°19'24	2°34' 2° 6	6°51' 1° 0	11°16' 18	37° 12°37	4°43' 19	8° 15°57	17°20' 10	36° 14°13	13° 14°13	13° 14°13	F 13			
S 14	9 32 12	24°20'04	15° 9' 3	32° 7°55	0°43' 11	12° 18°43	12°40' 4	41° 19° 7	15°49' 17	17°17' 10	43° 14°14	14° 14°14	S 14			
S 15	9 36 9	25°20'42	27°21' 4	59° 9° 0	0°26' 11	8° 18°50	12°42' 4	40° 19° 6	15°40' 17	14° 17°14	10°49' 14	15° 14°15	S 15			
M16	9 40 5	26°21'19	9°25' 6	27° 10° 5	0° 9' 11	4° 18°56	12°45' 4	38° 19° 5	15°30' 17	11° 10°56	14°17' 14	17° 14°17	M16			
T 17	9 44 2	27°21'54	21°23' 7	57° 11°10	54° 29°54	11° 0' 19	2° 12°48	4°36' 19	4° 15°20	17° 7' 11	3° 14°18	17° 14°18	T 17			
W18	9 47 58	28°22'28	3°16' 9	27° 12°15	29°39' 10	57° 19° 8	12°50' 4	35° 19° 3	15°12' 17	4° 11° 9	14°20' 14	20° 14°20	W18			
T 19	9 51 55	29°23'00	15° 5' 10	58° 13°21	29°25' 10	53° 19°14	12°53' 4	33° 19° 2	15° 5' 17	1° 11°16	14°21' 14	21° 14°21	T 19			
F 20	9 55 51	0°23'31	26°53' 12	30° 14°27	29°12' 10	50° 19°20	12°56' 4	31° 19° 1	15° 1' 16	58° 11°23	14°23' 14	23° 14°23	F 20			
S 21	9 59 48	1°24'00	8°Y41	14° 3' 15	33° 28°59	10°47' 19	26° 12°58	4°30' 19	1° 14°59	16°55' 11	29° 14°25	25° 14°25	S 21			
S 22	10 3 45	2°24'27	20°34' 15	37° 16°39	28°47' 10	44° 19°32	13° 1' 4	28° 19° 0	14°D59	16°51' 11	36° 11°36	26° 14°26	S 22			
M23	10 7 41	3°24'53	2°B34	17°12' 17	45° 28°36	10°42' 19	38° 13° 4	4°26' 18	59° 15° 0	16°48' 11	43° 14°28	28° 14°28	M23			
T 24	10 11 38	4°25'16	14°46' 18	48° 18°52	28°26' 10	40° 19°43	13° 7' 4	2°25' 18	58° 15° 2	16°45' 11	49° 14°30	24° 14°30	T 24			
W25	10 15 34	5°25'38	27°15' 20	25° 19°58	28°17' 10	37° 19°49	13°10' 4	2°23' 18	57° 15° 3	16°42' 11	56° 14°32	25° 14°32	W25			
T 26	10 19 31	6°25'58	10°II 4	22° 3' 21	5° 28° 8	10°36' 19	55° 13°13	4°21' 18	56° 15°R 3	16°39' 12	3° 14°34	26° 14°34	T 26			
F 27	10 23 27	7°26'15	23°19' 23	42° 22°12	28° 1' 10	34° 20° 0	13°15' 4	20° 18°55	15° 2' 16	36° 12° 9	14°36' 14	36° 14°36	F 27			
S 28	10 27 24	8°26'31	7°S 3	25°22' 23	30°27°S20	54° 10°S32	20°S 6	13°Y18	4°18' 18	S55 14°Y59	16°Y32	12°X16	14°X38	S 28		

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	17s26	27n49	5n 2	21s56	0n30	19s41	3n39	23n20	4n30	23n 6	0n13	22s 1	0n19	4n13	0s39	S 1
M 2	17 9	25 27	4 57	21 57	0 21	19 47	3 35	23 26	4 30	23 6	0 13	22 0	0 19	4 14	0 39	M 2
T 3	16 52	21 16	4 32	21 56	0 11	19 52	3 32	23 31	4 30	23 7	0 13	21 59	0 19	4 15	0 39	T 3
W 4	16 34	15 40	3 47	21 55	0 3	19 57	3 28	23 36	4 30	23 8	0 13	21 58	0 19	4 15	0 39	W 4
T 5	16 17	9 8	2 46	21 52	0s 6	20 2	3 25	23 41	4 29	23 8	0 13	21 57	0 19	4 16	0 39	T 5
F 6	15 59	2 9	1 34	21 48	0 15	20 6	3 21	23 46	4 28	23 9	0 13	21 57	0 19	4 17	0 39	F 6
S 7	15 40	4s48	0 18	21 43	0 23	20 10	3 17	23 50	4 28	23 9	0 13	21 56	0 19	4 18	0 39	S 7
S 8	15 22	11 20	0s58	21 37	0 31	20 13	3 13	23 55	4 27	23 10	0 14	21 55	0 19	4 19	0 39	S 8
M 9	15 3	17 8	2 9	21 29	0 39	20 16	3 9	23 59	4 26	23 10	0 14	21 54	0 19	4 20	0 39	M 9
T 10	14 44	21 55	3 10	21 21	0 46	20 19	3 5	24 2	4 25	23 11	0 14	21 53	0 19	4 21	0 39	T 10
W11	14 24	25 29	3 59	21 11	0 53	20 21	3 1	24 6	4 24	23 11	0 14	21 53	0 19	4 22	0 39	W11
T 12	14 5	27 40	4 36	21 0	1 0	20 22	2 57	24 9	4 23	23 12	0 14	21 52	0 19	4 23	0 39	T 12
F 13	13 45	28 23	4 58	20 47	1 7	20 24	2 53	24 12	4 22	23 12	0 14	21 51	0 18	4 24	0 38	F 13
S 14	13 25	27 39	5 6	20 33	1 13	20 24	2 49	24 15	4 21	23 13	0 14	21 50	0 18	4 25	0 38	S 14
S 15	13 5	25 36	5 0	20 18	1 19	20 25	2 45	24 17	4 19	23 13	0 14	21 49	0 18	4 26	0 38	S 15
M16	12 44	22 24	4 40	20 2	1 25	20 24	2 40	24 19	4 18	23 14	0 14	21 49	0 18	4 27	0 38	M16
T 17	12 24	18 18	4 8	19 45	1 30	20 24	2 36	24 21	4 16	23 14	0 14	21 48	0 18	4 28	0 38	T 17
W18	12 3	13 30	3 26	19 26	1 35	20 22	2 32	24 23	4 15	23 15	0 15	21 47	0 18	4 29	0 38	W18
T 19	11 42	8 15	2 34	19 5	1 40	20 20	2 27	24 24	4 13	23 15	0 15	21 46	0 18	4 30	0 38	T 19
F 20	11 20	2 43	1 36	18 44	1 45	20 18	2 23	24 26	4 11	23 15	0 15	21 45	0 18	4 31	0 38	F 20
S 21	10 59	2n56	0 34	18 21	1 49	20 15	2 18	24 27	4 10	23 16	0 15	21 45	0 18	4 32	0 38	S 21
S 22	10 37	8 30	0n30	17 57	1 52	20 12	2 14	24 27	4 8	23 16	0 15	21 44	0 18	4 33	0 38	S 22
M23	10 16	13 51	1 34	17 31	1 56	20 8	2 9	24 28	4 6	23 16	0 15	21 43	0 18	4 34	0 38	M23
T 24	9 54	18 44	2 35	17 5	1 59	20 4	2 5	24 28	4 4	23 16	0 15	21 42	0 18	4 36	0 38	T 24
W25	9 32	22 57	3 30	16 36	2 2	19 59	2 0	24 28	4 2	23 17	0 15	21 42	0 18	4 37	0 38	W25
T 26	9 9	26 11	4 16	16 7	2 4	19 54	1 56	24 28	4 1	23 17	0 15	21 41	0 18	4 38	0 38	T 26
F 27	8 47	28 6	4 50	15 36	2 6	19 48	1 51	24 28	3 59	23 17	0 15	21 40	0 18	4 39	0 38	F 27
S 28	8s24	28n24	5n 9	15s 4	2s 7	19s41	1n46	24n27	3n57	23n17	0n15	21s39	0n18	4n40	0s38	S 28

Julian Day Number = 2426373.5, Delta T = 24.41 sec  
 Ecliptic obliquity = 23°27'02, Nutation = - 0°00'04, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 23°46'40, Lahiri = 22°53'40

ASTRODIENST EPHEMERIS for the year 1931  
geocentric

MARCH 1931

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 31 20	9°26'45	21°51'15	27°33'3	24°28'27	27°R47	10°R31	20°31'11	13°Y21	4°R16	18°R54	14°R55	16°Y29	12°X23	14°R40	S 1
M 2	10 35 17	10°26'57	5°52'54	28°45'25	25°35'27	27°S42	10°S30	20°16'13	13°24'4	4°M15	18°S53	14°Y50	16°26'12	12°29'14	14°42'14	M 2
T 3	10 39 14	11°27'06	20°55'0	26°42'27	27°37'10	27°37	10°29'20	20°22'13	13°27'4	4°13'18	18°52'14	14°45'16	16°23'12	12°36'14	14°45'14	T 3
W 4	10 43 10	12°27'14	6°19'9	2°12'27	27°50'27	27°34'10	10°28'20	20°27'13	13°30'4	4°11'18	18°52'14	14°40'16	16°20'12	12°43'14	14°47'14	W 4
T 5	10 47 7	13°27'20	21°25'3	3°57'28	28°58'27	27°31'10	10°27'20	20°32'13	13°33'4	4°10'18	18°51'14	14°37'16	16°17'12	12°50'14	14°49'14	T 5
F 6	10 51 3	14°27'23	6°43'5	5°44'0	28°58'27	27°28'10	10°27'20	20°37'13	13°37'4	4°8'18	18°50'14	14°36'16	16°13'12	12°56'14	14°52'14	F 6
S 7	10 55 0	15°27'26	21°28'7	7°31'1	1°15'27	27°27'10	10°D27	20°43'13	13°40'4	4°6'18	18°50'14	14°D36	16°10'13	13°3'14	14°54'14	S 7
S 8	10 58 56	16°27'26	5°18'58	9°19'2	2°23'27	27°26'10	10°27'20	20°48'13	13°43'4	4°5'18	18°49'14	14°37'16	16°7'13	13°10'14	14°57'14	S 8
M 9	11 2 53	17°27'25	20°2'11	11°9'3	3°32'27	27°D26	10°27'20	20°52'13	13°46'4	4°3'18	18°49'14	14°38'16	16°4'13	13°16'14	14°59'14	M 9
T 10	11 6 49	18°27'22	3°39'12	12°59'4	4°40'27	27°27'10	10°28'20	20°57'13	13°49'4	4°2'18	18°48'14	14°40'16	16°1'13	13°23'15	15°2'15	T 10
W 11	11 10 46	19°27'18	16°50'14	14°51'5	5°49'27	27°28'10	10°28'20	21°2'13	13°52'4	4°0'18	18°47'14	14°R40	15°57'13	13°30'15	15°4'15	W 11
T 12	11 14 43	20°27'12	29°40'16	16°44'6	6°58'27	27°30'10	10°29'20	21°7'13	13°55'3	3°58'18	18°47'14	14°40'16	15°54'13	13°36'15	15°7'15	T 12
F 13	11 18 39	21°27'05	12°31'10	18°38'8	7°7'27	27°33'10	10°30'21	21°12'13	13°59'3	3°57'18	18°46'14	14°39'15	15°51'13	13°43'15	15°10'15	F 13
S 14	11 22 36	22°26'56	24°25'20	20°33'9	9°16'27	27°36'10	10°31'21	21°16'14	14°2'3	3°55'18	18°46'14	14°36'15	15°48'13	13°50'15	15°13'15	S 14
S 15	11 26 32	23°26'45	6°29'22	22°29'10	10°25'27	27°41'10	10°33'21	21°21'14	14°5'3	3°54'18	18°46'14	14°33'15	15°45'13	13°56'15	15°15'15	S 15
M 16	11 30 29	24°26'32	18°26'24	24°26'11	11°35'27	27°45'10	10°34'21	21°25'14	14°8'3	3°52'18	18°45'14	14°29'15	15°42'14	14°3'15	15°18'15	M 16
T 17	11 34 25	25°26'17	0°17'26	24°12'44	12°44'27	27°51'10	10°36'21	21°29'14	14°12'3	3°51'18	18°45'14	14°26'15	15°38'14	14°10'15	15°21'15	T 17
W 18	11 38 22	26°26'00	12°5'28	23°53'27	13°53'27	27°57'10	10°38'21	21°34'14	14°15'3	3°49'18	18°44'14	14°23'15	15°35'14	14°16'15	15°24'15	W 18
T 19	11 42 18	27°25'42	23°53'0	15°3'28	2°4'28	27°58'10	10°40'21	21°38'14	14°18'3	3°47'18	18°44'14	14°21'15	15°32'14	14°23'15	15°27'15	T 19
F 20	11 46 15	28°25'21	5°44'2	16°13'28	11°10'42	27°59'10	10°42'21	21°42'14	14°22'3	3°46'18	18°44'14	14°20'15	15°29'14	14°29'15	15°30'15	F 20
S 21	11 50 12	29°24'59	17°38'4	17°22'28	19°10'45	27°59'10	10°45'21	21°46'14	14°25'3	3°44'18	18°43'14	14°D20	15°26'15	14°36'15	15°33'15	S 21
S 22	11 54 8	0°24'34	29°38'6	18°32'28	28°28'10	27°59'10	10°48'21	21°50'14	14°28'3	3°43'18	18°43'14	14°21'15	15°23'14	14°43'15	15°36'15	S 22
M 23	11 58 5	1°24'07	11°46'8	19°42'28	28°37'10	27°59'10	10°51'21	21°54'14	14°32'3	3°42'18	18°43'14	14°22'15	15°19'14	14°49'15	15°39'15	M 23
T 24	12 2 1	2°23'38	24°6'10	20°52'28	28°47'10	27°59'10	10°54'21	21°58'14	14°35'3	3°40'18	18°42'14	14°23'15	15°16'14	14°56'15	15°42'15	T 24
W 25	12 5 58	3°23'07	6°11'41	12°25'22	2°2'28	28°58'10	10°57'22	21°58'14	14°38'3	3°39'18	18°42'14	14°24'15	15°13'14	15°3'15	15°46'15	W 25
T 26	12 9 54	4°22'34	19°32'14	23°12'29	9°11°0	22°5'14	11°0'22	21°58'14	14°42'3	3°37'18	18°42'14	14°25'15	15°10'14	15°9'15	15°49'15	T 26
F 27	12 13 51	5°21'58	2°44'16	23°23'29	11°4'29	22°9'11	11°4'22	21°58'14	14°45'3	3°36'18	18°42'14	14°R25	15°7'15	15°16'15	15°52'15	F 27
S 28	12 17 47	6°21'20	16°19'18	25°33'29	11°8'22	22°12'14	11°8'22	21°58'14	14°49'3	3°35'18	18°42'14	14°25'15	15°3'15	15°23'15	15°56'15	S 28
S 29	12 21 44	7°20'39	0°18'20	26°43'29	11°12'22	22°16'14	11°12'22	21°58'14	14°52'3	3°33'18	18°42'14	14°24'15	15°0'14	15°29'15	15°59'15	S 29
M 30	12 25 41	8°19'57	14°41'22	27°54'29	11°16'22	22°19'14	11°16'22	21°58'14	14°55'3	3°32'18	18°42'14	14°24'15	14°57'15	15°36'15	16°2'16	M 30
T 31	12 29 37	9°19'12	29°12'23	23°56'29	11°16'22	22°22'14	11°16'22	21°58'14	14°59'3	3°31'18	18°41'14	14°Y23	14°Y54	15°43'15	16°8'16	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8s 2	26n52	5n10	14s31	2s 8	19s34	1n42	24n27	3n55	23n18	0n16	21s39	0n18	4n41	0s38	10n38	0n44	22n18	0n11	5n53	6n29	9s35	14n 7	2s14							
M 2	7 39	23 30	4 51	13 56	2 9	19 27	1 37	24 26	3 53	23 18	0 16	21 38	0 18	4 43	0 38	10 38	0 44	22 18	0 11	5 51	6 28	9 32	14 8	2 14							
T 3	7 16	18 31	4 12	13 20	2 9	19 18	1 33	24 25	3 51	23 18	0 16	21 37	0 17	4 44	0 38	10 39	0 44	22 18	0 11	5 49	6 27	9 29	14 8	2 14							
W 4	6 53	12 17	3 15	12 42	2 9	19 10	1 28	24 24	3 49	23 18	0 16	21 36	0 17	4 45	0 38	10 40	0 44	22 18	0 11	5 47	6 25	9 26	14 9	2 14							
T 5	6 30	5 18	2 3	12 4	2 9	19 1	1 24	24 22	3 47	23 18	0 16	21 36	0 17	4 46	0 38	10 40	0 44	22 19	0 11	5 46	6 24	9 22	14 10	2 14							
F 6	6 7	1s57	0 44	11 23	2 8	18 51	1 19	24 21	3 45	23 18	0 16	21 35	0 17	4 47	0 38	10 41	0 44	22 19	0 11	5 45	6 23	9 19	14 10	2 14							
S 7	5 44	8 57	0s38	10 42	2 6	18 41	1 15	24 19	3 42	23 18	0 16	21 34	0 17	4 49	0 38	10 41	0 44	22 19	0 11	5 45	6 22	9 16	14 11	2 14							
S 8	5 21	15 19	1 55	10 0	2 4	18 30	1 10	24 17	3 40	23 18	0 16	21 33	0 17	4 50	0 38	10 42	0 44	22 19	0 11	5 46	6 21	9 13	14 12	2 14							
M 9	4 57	20 41	3 2	9 16	2 1	18 19	1 6	24 15	3 38	23 18	0 16	21 33	0 17	4 51	0 38	10 43	0 44	22 19	0 11	5 46	6 19	9 9	14 13	2 14							
T 10	4 34	24 47	3 58	8 30	1 58	18 7	1 1	24 13	3 36	23 18	0 16	21 32	0 17	4 52	0 38	10 43	0 44	22 19	0 12	5 47	6 18	9 6	14 13	2 13							
W 11	4 11	27 25	4 38	7 44	1 55	17 55	0 57	24 11	3 34	23 18	0 16	21 31	0 17	4 54	0 38	10 44	0 44	22 19	0 12	5 47	6 17	9 3	14 14	2 13							
T 12	3 47	28 31	5 4	6 57	1 51	17 42	0 52	24 8	3 32	23 18	0 16	21 31	0 17	4 55	0 38	10 44	0 44	22 20	0 12	5 47	6 16	9 0	14 15	2 13							
F 13	3 23	28 7	5 14	6 8	1 46	17 29	0 48	24 5	3 30	23 18	0 16	21 30	0 17	4 56	0 38	10 45	0 44	22 20	0 12	5 46	6 14	8 56	14 16	2 13							
S 14	3 0	26 20	5 10	5 18	1 41	17 15	0 43	24 3	3 28	23 18	0 16	21 29	0 17	4 57	0 38	10 45	0 44	22 20	0 12	5 45	6 13	8 53	14 17	2 13							
S 15	2 36	23 22	4 52	4 27	1 36	17 1	0 39	24 0	3 26	23 18	0 17	21 29	0 17	4 59	0 38	10 46	0 44	22 20	0 12	5 44	6 12	8 50	14 18	2 13							
M 16	2 13	19 27	4 21	3 35	1 30	16 46	0 35	23 57	3 24	23 18	0 17	21 28	0 17	5 0	0 38	10 47	0 44	22 20	0 12	5 43	6 11	8 46	14 18	2 13							
T 17	1 49	14 48	3 40	2 42	1 23	16 31	0 30	23 54	3 22	23 18	0 17	21 27	0 17	5 1	0 38	10 47	0 44	22 20	0 12	5 42	6 10	8 43	14 19	2 13							
W 18	1 25	9 38	2 49	1 48	1 15	16 15	0 26	23 51	3 20	23 18	0 17	21 27	0 17	5 2	0 38	10 48	0 44	22 20	0 12	5 41	6 8	8 40	14 20	2 13							
T 19	1 1	4 7	1 51	0 53	1 8	15 59	0 22	23 47	3 18	23 18	0 17	21 26	0 17	5 4	0 38	10 48	0 44	22 20	0 12	5 40	6 7	8 37	14 21	2 13							
F 20	0 38	1n33	0 47	0n 2	0 59	15 42	0 18	23 44	3 16	23 18	0 17	21 26	0 17	5 5	0 38	10 49	0 44	22 21	0 12	5 39	6 6	8 33	14 22	2 13							
S 21	0 14	7 12	0n18	0 58	0 50	15 25	0 14	23 40	3 14	23 18	0 17	21 25	0 17	5 6	0 38	10 49	0 44	22 21	0 12	5 39	6 5	8 30	14 23	2 13							
S 22	0n10	12 39	1 24	1 55	0 41	15 7	0 10	23 36	3 12	23 18	0 17	21 24	0 17	5 8	0 38	10 50	0 44	22 21	0 12	5 39	6 3	8 27	14 24	2 13							
M 23	0 33	17 42	2 26	2 52	0 31	14 49	0 6	23 32	3 10	23 17	0 17	21 24	0 16	5 9	0 38	10 50	0 44	22 21	0 12	5 40	6 2	8 24	14 25	2 13							
T 24	0 57	22 5	3 23	3 48	0 21	14 31	0 2	23 28	3 8	23 17	0 17	21 23	0 16	5 10	0 38	10 51	0 44	22 21	0 12	5 40	6 1	8 20	14 26	2 13							
W 25	1 21	25 34	4 11	4 45	0 10	14 12	0s 2	23 24	3 6	23 17	0 17	21 23	0 16	5 12	0 38	10 51	0 44	22 21	0 12	5 41	6 0	8 17	14 26	2 13							
T 26	1 44	27 49	4 48	5 42	0n 1	13 53	0 6	23 20	3 4	23 17	0 17	21 22	0 16	5 13	0 38	10 52	0 44	22 21	0 13	5 41	5 59	8 14	14 27	2 13							
F 27	2 8	28 36	5 11	6 38	0 12	13 33	0 10	23 16	3 2	23 17	0 17	21 22	0 16	5 14	0 38	10 52	0 44	22 21	0 13	5 41	5 57	8 10	14 28	2 13							
S 28	2 32	27 42	5 17	7 33	0 24	13 13	0 13	23 11	3 0	23 16	0 17	21 21	0 16	5 16	0 38	10 53	0 44	22 21	0 13	5 41	5 56	8 7	14 29	2 13							
S 29	2 55	25 4	5 5	8 28	0 36	12 53	0 17	23 7	2 58	23 16	0 17	21 21	0 16	5 17	0 38	10 53	0 44	22 21	0 13	5 41	5 55	8 4	14 30	2 13							
M 30	3 18	20 48	4 34	9 21	0 48	12 32	0 21	23 2	2 56	23 16	0 18	21 20	0 16	5 18	0 38	10 54	0 44	22 21	0 13	5 41	5 54	8 0	14 31	2 13							
T 31	3n42	15n11	3n45	10n13	1n 0	12s11	0s24	22n57	2n54	23n15	0n18	21s20	0n16	5n20	0s38	10n54	0n44	22n21	0n13	5n40	5n52	7s57	14n32	2s12							

ASTRODIENST EPHEMERIS for the year 1931  
geocentric

APRIL 1931

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 33 34	10°18'24"	14°23'	25°43'	0°15'	0°26'	11°25'	22°25'	15°2'	3°29'	18°41'	14°23'	14°51'	15°49'	16°8'	W 1
T 2	12 37 30	11°17'34"	29°29'	27°26'	1°25'	0°40'	11°30'	22°28'	15°6'	3°28'	18°41'	14°22'	14°48'	15°56'	16°13'	T 2
F 3	12 41 27	12°16'42"	14°24'	29°6'	2°36'	0°55'	11°34'	22°31'	15°9'	3°27'	18°41'	14°22'	14°44'	16°3'	16°16'	F 3
S 4	12 45 23	13°15'49"	29°39'	0°41'	3°46'	1°11'	11°39'	22°34'	15°13'	3°26'	18°41'	14°22'	14°41'	16°9'	16°20'	S 4
S 5	12 49 20	14°14'53"	14°26'	2°11'	4°57'	1°27'	11°45'	22°37'	15°16'	3°24'	18°41'	14°22'	14°38'	16°16'	16°23'	S 5
M 6	12 53 16	15°13'55"	28°20'	3°37'	6°8'	1°43'	11°50'	22°40'	15°19'	3°23'	18°42'	14°22'	14°35'	16°23'	16°27'	M 6
T 7	12 57 13	16°12'56"	12°7'	4°57'	7°19'	2°0'	11°55'	22°42'	15°23'	3°22'	18°42'	14°22'	14°32'	16°29'	16°31'	T 7
W 8	13 1 10	17°11'55"	25°28'	6°12'	8°30'	2°17'	12°0'	22°45'	15°26'	3°21'	18°42'	14°22'	14°28'	16°36'	16°34'	W 8
T 9	13 5 6	18°10'52"	8°23'	7°22'	9°41'	2°35'	12°7'	22°47'	15°30'	3°20'	18°42'	14°22'	14°25'	16°43'	16°38'	T 9
F 10	13 9 3	19°9'48"	20°57'	8°25'	10°52'	2°53'	12°13'	22°50'	15°33'	3°19'	18°42'	14°22'	14°22'	16°49'	16°42'	F 10
S 11	13 12 59	20°8'41"	3°13'	9°23'	12°3'	3°11'	12°19'	22°52'	15°37'	3°18'	18°42'	14°22'	14°19'	16°56'	16°45'	S 11
S 12	13 16 56	21°7'33"	15°15'	10°15'	13°14'	3°30'	12°25'	22°54'	15°40'	3°17'	18°43'	14°22'	14°16'	17°3'	16°49'	S 12
M13	13 20 52	22°6'23"	27°8'	11°1'	14°25'	3°49'	12°31'	22°56'	15°43'	3°16'	18°43'	14°23'	14°13'	17°9'	16°53'	M13
T 14	13 24 49	23°5'11"	8°57'	11°40'	15°36'	4°8'	12°38'	22°58'	15°47'	3°15'	18°43'	14°24'	14°9'	17°16'	16°57'	T 14
W15	13 28 45	24°3'58"	12°13'	16°48'	4°28'	12°45'	23°0'	15°50'	3°14'	18°43'	14°25'	14°6'	17°23'	17°1'	17°24'	W15
T 16	13 32 42	25°2'42"	2°13'	12°40'	17°59'	4°49'	12°52'	23°2'	15°54'	3°13'	18°44'	14°26'	14°3'	17°29'	17°4'	T 16
F 17	13 36 39	26°1'25"	14°30'	13°0'	19°10'	5°9'	12°59'	23°3'	15°57'	3°12'	18°44'	14°26'	14°0'	17°36'	17°8'	F 17
S 18	13 40 35	27°0'06"	26°32'	13°15'	20°22'	5°30'	13°6'	23°5'	16°0'	3°11'	18°44'	14°26'	13°57'	17°43'	17°12'	S 18
S 19	13 44 32	27°58'45"	8°45'	13°23'	21°33'	5°51'	13°13'	23°6'	16°4'	3°10'	18°45'	14°25'	13°54'	17°49'	17°16'	S 19
M20	13 48 28	28°57'22"	21°8'	13°24'	22°44'	6°13'	13°20'	23°8'	16°7'	3°10'	18°45'	14°23'	13°50'	17°56'	17°20'	M20
T 21	13 52 25	29°55'57"	3°14'	13°21'	23°56'	6°35'	13°28'	23°9'	16°11'	3°9'	18°46'	14°21'	13°47'	18°3'	17°24'	T 21
W22	13 56 21	0°54'30"	16°33'	13°11'	25°7'	6°57'	13°36'	23°10'	16°14'	3°8'	18°46'	14°18'	13°44'	18°9'	17°28'	W22
T 23	14 0 18	1°53'01"	29°37'	12°56'	26°19'	7°20'	13°43'	23°11'	16°17'	3°7'	18°47'	14°16'	13°41'	18°16'	17°32'	T 23
F 24	14 4 14	2°51'29"	12°56'	12°36'	27°30'	7°43'	13°51'	23°12'	16°21'	3°7'	18°47'	14°14'	13°38'	18°23'	17°36'	F 24
S 25	14 8 11	3°49'56"	26°31'	12°12'	28°42'	8°6'	13°59'	23°13'	16°24'	3°6'	18°48'	14°13'	13°34'	18°29'	17°40'	S 25
S 26	14 12 8	4°48'20"	10°24'	11°44'	29°54'	8°29'	14°8'	23°14'	16°27'	3°5'	18°48'	14°D13'	13°31'	18°36'	17°44'	S 26
M27	14 16 4	5°46'43"	24°32'	11°12'	1°15'	8°53'	14°16'	23°15'	16°30'	3°5'	18°49'	14°14'	13°28'	18°43'	17°48'	M27
T 28	14 20 1	6°45'03"	8°56'	10°38'	2°17'	9°17'	14°24'	23°15'	16°34'	3°4'	18°49'	14°15'	13°25'	18°49'	17°52'	T 28
W29	14 23 57	7°43'20"	23°31'	10°1'	3°29'	9°41'	14°33'	23°16'	16°37'	3°4'	18°50'	14°17'	13°22'	18°56'	17°56'	W29
T 30	14 27 54	8°41'36"	8°14'	9°23'	4°40'	10°25'	14°42'	23°16'	16°40'	3°3'	18°51'	14°R18'	13°19'	19°3'	18°0'	T 30

Day	☉			☾			♀			♀			♂			♂			♂			♂			♂			♂			♂			♂			♂			♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat					
W 1	4n 5	8n36	2n39	11n 3	1n11	11s50	0s28	22n52	2n52	23n15	0n18	21s19	0n16	5n21	0s38	10n55	0n44	22n22	0n13	5n40	5n51	7s54	14n33	2s13																		
T 2	4 28	1 27	1 22	11 52	1 23	11 28	0 31	22 47	2 51	23 15	0 18	21 19	0 16	5 22	0 38	10 55	0 44	22 22	0 13	5 40	5 50	7 51	14 34	2 13																		
F 3	4 51	5s46	0s 1	12 38	1 35	11 6	0 35	22 42	2 49	23 14	0 18	21 18	0 16	5 24	0 38	10 56	0 44	22 22	0 13	5 40	5 49	7 47	14 35	2 13																		
S 4	5 14	12 35	1 23	13 22	1 46	10 43	0 38	22 37	2 47	23 14	0 18	21 18	0 16	5 25	0 38	10 56	0 44	22 22	0 13	5 40	5 47	7 44	14 36	2 13																		
S 5	5 37	18 35	2 38	14 3	1 56	10 20	0 41	22 32	2 45	23 14	0 18	21 18	0 16	5 26	0 38	10 57	0 44	22 22	0 13	5 40	5 46	7 41	14 37	2 13																		
M 6	6 0	23 23	3 41	14 42	2 6	9 57	0 44	22 26	2 43	23 13	0 18	21 17	0 16	5 28	0 38	10 57	0 44	22 22	0 13	5 40	5 45	7 37	14 38	2 13																		
T 7	6 23	26 42	4 29	15 19	2 16	9 34	0 47	22 21	2 42	23 13	0 18	21 17	0 16	5 29	0 38	10 57	0 44	22 22	0 13	5 40	5 44	7 34	14 39	2 13																		
W 8	6 45	28 23	5 1	15 52	2 25	9 10	0 50	22 15	2 40	23 12	0 18	21 16	0 16	5 30	0 38	10 58	0 44	22 22	0 13	5 40	5 43	7 31	14 40	2 13																		
T 9	7 8	28 26	5 16	16 23	2 33	8 46	0 53	22 9	2 38	23 12	0 18	21 16	0 16	5 32	0 38	10 58	0 44	22 22	0 13	5 40	5 41	7 27	14 41	2 13																		
F 10	7 30	27 1	5 16	16 50	2 40	8 22	0 56	22 4	2 36	23 11	0 18	21 16	0 16	5 33	0 38	10 59	0 44	22 22	0 13	5 40	5 40	7 24	14 42	2 13																		
S 11	7 53	24 19	5 1	17 15	2 46	7 57	0 59	21 58	2 35	23 11	0 18	21 15	0 15	5 34	0 38	10 59	0 44	22 22	0 13	5 40	5 39	7 21	14 43	2 13																		
S 12	8 15	20 37	4 33	17 37	2 51	7 33	1 2	21 52	2 33	23 10	0 18	21 15	0 15	5 35	0 38	10 59	0 44	22 22	0 13	5 40	5 38	7 17	14 44	2 13																		
M13	8 37	16 7	3 53	17 55	2 56	7 8	1 4	21 45	2 31	23 10	0 18	21 15	0 15	5 37	0 38	11 0	0 44	22 22	0 14	5 40	5 36	7 14	14 45	2 13																		
T 14	8 59	11 4	3 4	18 10	2 59	6 42	1 7	21 39	2 30	23 9	0 18	21 15	0 15	5 38	0 38	11 0	0 44	22 22	0 14	5 41	5 35	7 11	14 46	2 13																		
W15	9 20	5 38	2 8	18 22	3 1	6 17	1 9	21 33	2 28	23 9	0 18	21 14	0 15	5 39	0 38	11 0	0 44	22 22	0 14	5 41	5 34	7 7	14 47	2 13																		
T 16	9 42	0n 1	1 5	18 31	3 1	5 51	1 12	21 26	2 26	23 8	0 18	21 14	0 15	5 41	0 38	11 1	0 44	22 22	0 14	5 41	5 33	7 4	14 49	2 13																		
F 17	10 3	5 43	0n 0	18 37	3 1	5 25	1 14	21 20	2 25	23 7	0 19	21 14	0 15	5 42	0 38	11 1	0 44	22 22	0 14	5 42	5 31	7 1	14 50	2 13																		
S 18	10 25	11 17	1 7	18 40	2 59	4 59	1 16	21 13	2 23	23 7	0 19	21 14	0 15	5 43	0 38	11 1	0 44	22 22	0 14	5 41	5 30	6 57	14 51	2 13																		
S 19	10 46	16 29	2 11	18 39	2 56	4 33	1 19	21 6	2 22	23 6	0 19	21 13	0 15	5 45	0 38	11 2	0 44	22 22	0 14	5 41	5 29	6 54	14 52	2 13																		
M20	11 7	21 6	3 9	18 35	2 51	4 7	1 21	20 59	2 20	23 5	0 19	21 13	0 15	5 46	0 38	11 2	0 44	22 22	0 14	5 40	5 28	6 51	14 53	2 13																		
T 21	11 27	24 50	4 0	18 29	2 45	3 41	1 23	20 52	2 18	23 5	0 19	21 13	0 15	5 47	0 38	11 2	0 44	22 22	0 14	5 40	5 27	6 47	14 54	2 14																		
W22	11 48	27 24	4 40	18 19	2 38	3 14	1 25	20 45	2 17	23 4	0 19	21 13	0 15	5 49	0 38	11 2	0 44	22 22	0 14	5 39	5 25	6 44	14 55	2 14																		
T 23	12 8	28 32	5 5	18 6	2 29	2 47	1 26	20 38	2 15	23 3	0 19	21 13	0 15	5 50	0 38	11 3	0 44	22 22	0 14	5 38	5 24	6 41	14 56	2 14																		
F 24	12 28	28 3	5 16	17 50	2 19	2 20	1 28	20 30	2 14	23 3	0 19	21 13	0 15	5 51	0 38	11 3	0 44	22 22	0 14	5 37	5 23	6 37	14 57	2 14																		
S 25	12 48	25 54	5 8	17 32	2 8	1 53	1 30	20 23	2 12	23 2	0 19	21 13	0 15	5 52	0 38	11 3	0 44	22 22	0 14	5 37	5 22	6 34	14 58	2 14																		
S 26	13 8	22 11	4 43	17 11	1 55	1 26	1 31	20 15	2 11	23 1	0 19	21 13	0 15	5 54	0 38	11 3	0 44	22 22	0 14	5 37	5 20	6 31	14 59	2 14																		
M27	13 27	17 8	4 1	16 49	1 42	0 59	1 33	20 8	2 9	23 0	0 19	21 12	0 15	5 55	0 38	11 3	0 44	22 22	0 14	5 37	5 19	6 27	15 0	2 14																		
T 28	13 47	11 3	3 3	16 24	1 27	0 32	1 34	20 0	2 8	22 59	0 19	21 12	0 15	5 56	0 38	11 4	0 44	22 22	0 14	5 37	5 18	6 24	15 1	2 14																		
W29	14 6	4 17	1 52	15 58	1 12	0 5	1 36	19 52	2 7	22 58	0 19	21 12	0 14	5 57	0 38	11 4	0 44	22 22	0 14	5 38	5 17	6 21	15 2	2 14																		
T 30	14n24	2s46	0n33	15n30	0n55	0n22	1s37	19n44	2n 5	22n57	0n19	21s12	0n14	5n59	0s38	11n 4	0n44	22n22	0n15	5n38	5n15	6s17	15n 3	2s14																		

ASTRODIENST EPHEMERIS for the year 1931  
geocentric

MAY 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 31 50	9♂39°50	23♂ 0	8°R44	5°Y52	10♂30	14♂50	23♂16	16°Y43	3°R 3	18♂51	14°R17	13°Y15	19♂ 9	18♂ 4	F 1
S 2	14 35 47	10°38'02	7♂40	8♂ 5	7° 4	10°55	14°59	23°17	16°47	3♂ 2	18°52	14°Y16	13°12	19°16	18° 8	S 2
S 3	14 39 43	11°36'13	22° 9	7°26	8°16	11°20	15° 8	23°17	16°50	3° 2	18°53	14°13	13° 9	19°23	18°12	S 3
M 4	14 43 40	12°34'22	6♂19	6°49	9°27	11°46	15°17	23°R17	16°53	3° 2	18°53	14°10	13° 6	19°29	18°16	M 4
T 5	14 47 37	13°32'29	20° 8	6°14	10°39	12°11	15°27	23°17	16°56	3° 1	18°54	14° 5	13° 3	19°36	18°20	T 5
W 6	14 51 33	14°30'35	3♂32	5°41	11°51	12°37	15°36	23°16	16°59	3° 1	18°55	14° 1	13° 0	19°43	18°24	W 6
T 7	14 55 30	15°28'39	16°32	5°12	13° 3	13° 3	15°46	23°16	17° 2	3° 1	18°56	13°57	12°56	19°49	18°28	T 7
F 8	14 59 26	16°26'42	29°10	4°45	14°15	13°30	15°55	23°16	17° 6	3° 0	18°57	13°54	12°53	19°56	18°33	F 8
S 9	15 3 23	17°24'43	11♂28	4°23	15°27	13°56	16° 5	23°15	17° 9	3° 0	18°57	13°53	12°50	20° 3	18°37	S 9
S 10	15 7 19	18°22'43	23°32	4° 5	16°39	14°23	16°15	23°15	17°12	3° 0	18°58	13°D53	12°47	20° 9	18°41	S 10
M 11	15 11 16	19°20'42	5♂25	3°50	17°51	14°50	16°24	23°14	17°15	3° 0	18°59	13°54	12°44	20°16	18°45	M 11
T 12	15 15 12	20°18'39	17°14	3°41	19° 3	15°17	16°34	23°13	17°18	3° 0	19° 0	13°55	12°40	20°23	18°49	T 12
W 13	15 19 9	21°16'35	29° 2	3°36	20°15	15°45	16°44	23°12	17°21	3° 0	19° 1	13°57	12°37	20°29	18°53	W 13
T 14	15 23 6	22°14'30	10°Y56	3°D35	21°27	16°12	16°55	23°11	17°24	3° 0	19° 2	13°R58	12°34	20°36	18°57	T 14
F 15	15 27 2	23°12'23	22°57	3°39	22°39	16°40	17° 5	23°10	17°27	3°D 0	19° 3	13°58	12°31	20°42	19° 1	F 15
S 16	15 30 59	24°10'15	5♂10	3°48	23°51	17° 8	17°15	23° 9	17°30	3° 0	19° 4	13°55	12°28	20°49	19° 5	S 16
S 17	15 34 55	25° 8'06	17°37	4° 1	25° 3	17°36	17°26	23° 8	17°32	3° 0	19° 5	13°51	12°25	20°56	19° 9	S 17
M 18	15 38 52	26° 5'56	0♂18	4°19	26°16	18° 4	17°36	23° 7	17°35	3° 0	19° 6	13°46	12°21	21° 2	19°13	M 18
T 19	15 42 48	27° 3'44	13°15	4°41	27°28	18°33	17°47	23° 5	17°38	3° 0	19° 7	13°39	12°18	21° 9	19°18	T 19
W 20	15 46 45	28° 1'30	26°26	5° 8	28°40	19° 2	17°57	23° 4	17°41	3° 0	19° 8	13°31	12°15	21°16	19°22	W 20
T 21	15 50 41	28°59'15	9♂50	5°38	29°52	19°31	18° 8	23° 2	17°44	3° 0	19° 9	13°24	12°12	21°22	19°26	T 21
F 22	15 54 38	29°56'59	23°27	6°13	1♂ 4	20° 0	18°19	23° 0	17°47	3° 0	19°10	13°18	12° 9	21°29	19°30	F 22
S 23	15 58 35	0♂54'41	7♂13	6°52	2°17	20°29	18°30	22°59	17°49	3° 1	19°11	13°14	12° 6	21°36	19°34	S 23
S 24	16 2 31	1°52'21	21° 9	7°34	3°29	20°58	18°41	22°57	17°52	3° 1	19°12	13°11	12° 2	21°42	19°38	S 24
M 25	16 6 28	2°50'00	5♂13	8°20	4°41	21°28	18°52	22°55	17°55	3° 1	19°14	13°D11	11°59	21°49	19°42	M 25
T 26	16 10 24	3°47'37	19°24	9°10	5°53	21°58	19° 3	22°53	17°57	3° 2	19°15	13°12	11°56	21°56	19°46	T 26
W 27	16 14 21	4°45'13	3♂40	10° 3	7° 6	22°27	19°15	22°51	18° 0	3° 2	19°16	13°13	11°53	22° 2	19°50	W 27
T 28	16 18 17	5°42'47	17°59	10°59	8°18	22°57	19°26	22°48	18° 2	3° 2	19°17	13°R13	11°50	22° 9	19°54	T 28
F 29	16 22 14	6°40'20	2♂19	11°59	9°30	23°28	19°37	22°46	18° 5	3° 3	19°18	13°11	11°46	22°16	19°58	F 29
S 30	16 26 10	7°37'51	16°35	13° 2	10°43	23°58	19°49	22°44	18° 7	3° 3	19°20	13° 8	11°43	22°22	20° 2	S 30
S 31	16 30 7	8♂35'21	0♂42	14♂ 9	11♂55	24♂28	20♂ 0	22♂41	18°Y10	3♂ 4	19♂21	13°Y 1	11°Y40	22♂29	20♂ 6	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
F 1	14n43	9s41	0s48	15n 2	0n39	0n50	1s38	19n36	2n 4	22n57	0n19	21s12	0n14	6n 0	0s38	11n 4	0n44	22n22	0n15	5n38	5n14	6s14	15n 4	2s14			
S 2	15 1	16 3	2 5	14 33	0 22	1 17	1 39	19 28	2 2	22 56	0 19	21 12	0 14	6 1	0 38	11 4	0 44	22 22	0 15	5 38	5 13	6 11	15 5	2 14			
S 3	15 19	21 25	3 13	14 4	0 4	1 45	1 40	19 19	2 1	22 55	0 19	21 12	0 14	6 2	0 38	11 4	0 44	22 22	0 15	5 37	5 12	6 7	15 7	2 14			
M 4	15 37	25 26	4 8	13 36	0s13	2 12	1 41	19 11	2 0	22 54	0 19	21 13	0 14	6 3	0 38	11 5	0 44	22 22	0 15	5 35	5 10	6 4	15 8	2 14			
T 5	15 55	27 50	4 46	13 8	0 30	2 39	1 42	19 2	1 58	22 53	0 19	21 13	0 14	6 5	0 38	11 5	0 44	22 22	0 15	5 34	5 9	6 0	15 9	2 14			
W 6	16 12	28 32	5 8	12 41	0 47	3 7	1 43	18 54	1 57	22 52	0 20	21 13	0 14	6 6	0 38	11 5	0 44	22 22	0 15	5 32	5 8	5 57	15 10	2 14			
T 7	16 29	27 36	5 13	12 16	1 4	3 34	1 43	18 45	1 55	22 51	0 20	21 13	0 14	6 7	0 38	11 5	0 44	22 22	0 15	5 30	5 7	5 54	15 11	2 14			
F 8	16 46	25 15	5 2	11 52	1 19	4 1	1 44	18 36	1 54	22 50	0 20	21 13	0 14	6 8	0 38	11 5	0 43	22 21	0 15	5 29	5 6	5 50	15 12	2 14			
S 9	17 2	21 47	4 38	11 30	1 35	4 29	1 44	18 27	1 53	22 48	0 20	21 13	0 14	6 9	0 38	11 5	0 43	22 21	0 15	5 29	5 4	5 47	15 13	2 15			
S 10	17 18	17 29	4 1	11 10	1 49	4 56	1 45	18 18	1 52	22 47	0 20	21 13	0 14	6 11	0 38	11 5	0 43	22 21	0 15	5 29	5 3	5 44	15 14	2 15			
M11	17 34	12 33	3 15	10 53	2 3	5 23	1 45	18 9	1 50	22 46	0 20	21 13	0 14	6 12	0 38	11 5	0 43	22 21	0 15	5 29	5 2	5 40	15 15	2 15			
T 12	17 50	7 12	2 21	10 37	2 15	5 50	1 46	18 0	1 49	22 45	0 20	21 14	0 14	6 13	0 38	11 5	0 43	22 21	0 15	5 30	5 1	5 37	15 16	2 15			
W13	18 5	1 37	1 21	10 25	2 27	6 17	1 46	17 50	1 48	22 44	0 20	21 14	0 14	6 14	0 38	11 5	0 43	22 21	0 15	5 30	4 59	5 33	15 17	2 15			
T 14	18 20	4n 4	0 17	10 14	2 38	6 44	1 46	17 41	1 46	22 43	0 20	21 14	0 14	6 15	0 38	11 5	0 43	22 21	0 15	5 31	4 58	5 30	15 18	2 15			
F 15	18 35	9 41	0n49	10 6	2 48	7 11	1 46	17 31	1 45	22 41	0 20	21 14	0 14	6 16	0 38	11 5	0 43	22 21	0 15	5 31	4 57	5 27	15 19	2 15			
S 16	18 49	15 1	1 53	10 1	2 57	7 37	1 46	17 22	1 44	22 40	0 20	21 15	0 13	6 17	0 38	11 5	0 43	22 21	0 15	5 30	4 56	5 23	15 20	2 15			
S 17	19 3	19 51	2 52	9 58	3 5	8 4	1 46	17 12	1 43	22 39	0 20	21 15	0 13	6 18	0 38	11 5	0 43	22 21	0 15	5 28	4 54	5 20	15 21	2 15			
M18	19 17	23 53	3 45	9 58	3 11	8 30	1 45	17 2	1 42	22 37	0 20	21 15	0 13	6 19	0 38	11 5	0 43	22 21	0 16	5 26	4 53	5 17	15 22	2 15			
T 19	19 31	26 48	4 26	9 59	3 17	8 56	1 45	16 52	1 40	22 36	0 20	21 15	0 13	6 21	0 38	11 5	0 43	22 21	0 16	5 23	4 52	5 13	15 23	2 15			
W20	19 44	28 19	4 55	10 3	3 22	9 22	1 45	16 42	1 39	22 35	0 20	21 16	0 13	6 22	0 38	11 5	0 43	22 21	0 16	5 20	4 51	5 10	15 24	2 16			
T 21	19 57	28 12	5 8	10 10	3 26	9 48	1 44	16 31	1 38	22 33	0 20	21 16	0 13	6 23	0 38	11 5	0 43	22 20	0 16	5 18	4 49	5 6	15 25	2 16			
F 22	20 9	26 24	5 3	10 18	3 29	10 14	1 44	16 21	1 37	22 32	0 20	21 16	0 13	6 24	0 38	11 5	0 43	22 20	0 16	5 15	4 48	5 3	15 26	2 16			
S 23	20 21	23 1	4 42	10 29	3 32	10 39	1 43	16 11	1 36	22 31	0 20	21 17	0 13	6 25	0 38	11 5	0 43	22 20	0 16	5 13	4 47	5 0	15 27	2 16			
S 24	20 33	18 18	4 3	10 41	3 33	11 4	1 43	16 0	1 34	22 29	0 20	21 17	0 13	6 26	0 38	11 5	0 43	22 20	0 16	5 13	4 46	4 56	15 28	2 16			
M25	20 44	12 33	3 10	10 55	3 33	11 29	1 42	15 50	1 33	22 28	0 21	21 18	0 13	6 27	0 38	11 4	0 43	22 20	0 16	5 12	4 44	4 53	15 29	2 16			
T 26	20 55	6 7	2 5	11 11	3 33	11 54	1 41	15 39	1 32	22 26	0 21	21 18	0 13	6 28	0 38	11 4	0 43	22 20	0 16	5 13	4 43	4 49	15 30	2 16			
W27	21 6	0s40	0 51	11 29	3 32	12 18	1 40	15 28	1 31	22 25	0 21	21 18	0 13	6 29	0 38	11 4	0 43	22 20	0 16	5 13	4 42	4 46	15 31	2 16			
T 28	21 16	7 27	0s26	11 48	3 30	12 43	1 39	15 17	1 30	22 23	0 21	21 19	0 13	6 30	0 38	11 4	0 43	22 20	0 16	5 13	4 41	4 43	15 32	2 16			
F 29	21 26	13 51	1 41	12 9	3 28	13 7	1 38	15 6	1 29	22 21	0 21	21 19	0 13	6 31	0 38	11 4	0 43	22 20	0 16	5 13	4 39	4 39	15 33	2 16			
S 30	21 36	19 30	2 49	12 31	3 24	13 30	1 37	14 55	1 28	22 20	0 21	21 20	0 13	6 32	0 38	11 4	0 43	22 19	0 16	5 11	4 38	4 36	15 34	2 17			
S 31	21n45	24s 0	3s46	12n54	3s21	13n54	1s36	14n44	1n27	22n18	0n21	21s20	0n12	6n32	0s38	11n 3	0n43	22n19	0n16	5n 9	4n37	4s32	15n35	2s17			



# ASTRODIENST EPHEMERIS for the year 1931

## geocentric

JUNE 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 34 4	9II32'51	14♂37	15♂18	13♂ 7	24♂59	20♂12	22°R39	18°Y12	3♂ 4	19♂22	12°R53	11°Y37	22♂36	20♂10	M 1
T 2	16 38 0	10°30'19	28°15	16°30	14°20	25°30	20°24	22♂36	18°15	3° 5	19°23	12°Y44	11°34	22°42	20°14	T 2
W 3	16 41 57	11°27'47	11♂33	17°45	15°32	26° 0	20°35	22°33	18°17	3° 6	19°25	12°34	11°31	22°49	20°18	W 3
T 4	16 45 53	12°25'13	24°30	19° 4	16°45	26°31	20°47	22°30	18°20	3° 6	19°26	12°26	11°27	22°56	20°21	T 4
F 5	16 49 50	13°22'39	7♂ 7	20°25	17°57	27° 3	20°59	22°28	18°22	3° 7	19°27	12°18	11°24	23° 2	20°25	F 5
S 6	16 53 46	14°20'04	19°25	21°48	19°10	27°34	21°11	22°25	18°24	3° 8	19°29	12°13	11°21	23° 9	20°29	S 6
S 7	16 57 43	15°17'28	1♂29	23°15	20°22	28° 5	21°23	22°22	18°26	3° 8	19°30	12°10	11°18	23°16	20°33	S 7
M 8	17 1 39	16°14'52	13°23	24°44	21°35	28°37	21°35	22°19	18°28	3° 9	19°31	12°D 9	11°15	23°22	20°37	M 8
T 9	17 5 36	17°12'15	25°13	26°17	22°47	29° 8	21°47	22°15	18°31	3°10	19°33	12° 9	11°12	23°29	20°41	T 9
W10	17 9 33	18° 9'37	7°Y 2	27°52	24° 0	29°40	21°59	22°12	18°33	3°11	19°34	12°R10	11° 8	23°35	20°44	W10
T11	17 13 29	19° 6'59	18°58	29°29	25°12	0♂12	22°11	22° 9	18°35	3°11	19°35	12°10	11° 5	23°42	20°48	T11
F12	17 17 26	20° 4'21	1♂ 4	1II10	26°25	0°44	22°24	22° 6	18°37	3°12	19°37	12° 8	11° 2	23°49	20°52	F12
S13	17 21 22	21° 1'42	13°25	2°53	27°38	1°16	22°36	22° 2	18°39	3°13	19°38	12° 4	10°59	23°55	20°56	S13
S14	17 25 19	21°59'02	26° 3	4°38	28°50	1°48	22°48	21°59	18°41	3°14	19°40	11°58	10°56	24° 2	20°59	S14
M15	17 29 15	22°56'22	9II 2	6°27	0II 3	2°21	23° 1	21°55	18°43	3°15	19°41	11°49	10°52	24° 9	21° 3	M15
T16	17 33 12	23°53'42	22°19	8°18	1°16	2°53	23°13	21°52	18°45	3°16	19°43	11°38	10°49	24°15	21° 7	T16
W17	17 37 8	24°51'01	5♂54	10°11	2°28	3°26	23°26	21°48	18°46	3°17	19°44	11°27	10°46	24°22	21°10	W17
T18	17 41 5	25°48'19	19°44	12° 7	3°41	3°59	23°38	21°44	18°48	3°18	19°45	11°16	10°43	24°29	21°14	T18
F19	17 45 2	26°45'37	3♂45	14° 5	4°54	4°32	23°51	21°40	18°50	3°19	19°47	11° 6	10°40	24°35	21°17	F19
S20	17 48 58	27°42'54	17°52	16° 6	6° 6	5° 5	24° 3	21°37	18°52	3°20	19°48	10°59	10°37	24°42	21°21	S20
S21	17 52 55	28°40'10	2♂ 3	18° 8	7°19	5°38	24°16	21°33	18°53	3°22	19°50	10°54	10°33	24°49	21°24	S21
M22	17 56 51	29°37'25	16°13	20°12	8°32	6°11	24°29	21°29	18°55	3°23	19°51	10°52	10°30	24°55	21°28	M22
T23	18 0 48	0♂34'40	0♂22	22°19	9°45	6°44	24°41	21°25	18°57	3°24	19°53	10°D52	10°27	25° 2	21°31	T23
W24	18 4 44	1°31'54	14°28	24°26	10°58	7°17	24°54	21°21	18°58	3°25	19°54	10°R52	10°24	25° 9	21°35	W24
T25	18 8 41	2°29'07	28°30	26°35	12°10	7°51	25° 7	21°17	19° 0	3°26	19°56	10°51	10°21	25°15	21°38	T25
F26	18 12 38	3°26'20	12♂27	28°45	13°23	8°24	25°20	21°13	19° 1	3°28	19°57	10°48	10°18	25°22	21°41	F26
S27	18 16 34	4°23'32	26°18	0♂55	14°36	8°58	25°33	21° 9	19° 2	3°29	19°59	10°43	10°14	25°29	21°44	S27
S28	18 20 31	5°20'44	10♂ 1	3° 6	15°49	9°32	25°46	21° 4	19° 4	3°30	20° 1	10°35	10°11	25°35	21°48	S28
M29	18 24 27	6°17'56	23°33	5°18	17° 2	10° 6	25°59	21° 0	19° 5	3°32	20° 2	10°24	10° 8	25°42	21°51	M29
T30	18 28 24	7♂15'07	6♂51	7♂28	18II15	10♂40	26♂12	20♂56	19°Y 6	3♂33	20♂ 4	10°Y12	10°Y 5	25♂49	21♂54	T30

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
M 1	21n54	27s 1	4s29	13n18	3s16	14n17	1s35	14n33	1n25	22n17	0n21	21s21	0n12	6n33	0s38	11n 3	0n43	22n19	0n16	5n 6	4n36	4s29	15n36	2s17					
T 2	22 2	28 22	4 55	13 44	3 11	14 39	1 34	14 21	1 24	22 15	0 21	21 21	0 12	6 34	0 38	11 3	0 43	22 19	0 16	5 2	4 35	4 26	15 37	2 17					
W 3	22 10	28 0	5 5	14 10	3 5	15 2	1 32	14 10	1 23	22 13	0 21	21 22	0 12	6 35	0 38	11 3	0 43	22 19	0 16	4 58	4 33	4 22	15 37	2 17					
T 4	22 18	26 7	4 58	14 38	2 59	15 24	1 31	13 58	1 22	22 11	0 21	21 22	0 12	6 36	0 38	11 3	0 43	22 19	0 17	4 55	4 32	4 19	15 38	2 17					
F 5	22 25	22 58	4 37	15 6	2 52	15 45	1 30	13 46	1 21	22 10	0 21	21 23	0 12	6 37	0 38	11 2	0 43	22 19	0 17	4 52	4 31	4 15	15 39	2 17					
S 6	22 32	18 51	4 3	15 35	2 44	16 7	1 28	13 35	1 20	22 8	0 21	21 23	0 12	6 38	0 38	11 2	0 43	22 19	0 17	4 50	4 30	4 12	15 40	2 18					
S 7	22 38	14 3	3 19	16 5	2 36	16 27	1 27	13 23	1 19	22 6	0 21	21 24	0 12	6 39	0 38	11 2	0 43	22 18	0 17	4 49	4 28	4 9	15 41	2 18					
M 8	22 44	8 48	2 27	16 35	2 28	16 48	1 25	13 11	1 18	22 4	0 21	21 24	0 12	6 39	0 38	11 1	0 43	22 18	0 17	4 48	4 27	4 5	15 42	2 18					
T 9	22 50	3 16	1 29	17 5	2 19	17 8	1 23	12 59	1 17	22 2	0 21	21 25	0 12	6 40	0 38	11 1	0 43	22 18	0 17	4 48	4 26	4 2	15 43	2 18					
W10	22 55	2n23	0 27	17 35	2 9	17 28	1 22	12 47	1 16	22 0	0 21	21 26	0 12	6 41	0 38	11 1	0 43	22 18	0 17	4 49	4 25	3 58	15 44	2 18					
T11	23 0	7 59	0n36	18 6	2 0	17 47	1 20	12 34	1 15	21 59	0 22	21 26	0 12	6 42	0 38	11 1	0 43	22 18	0 17	4 48	4 23	3 55	15 44	2 18					
F12	23 5	13 24	1 39	18 37	1 50	18 6	1 18	12 22	1 14	21 57	0 22	21 27	0 12	6 42	0 38	11 0	0 43	22 18	0 17	4 48	4 22	3 52	15 45	2 18					
S13	23 9	18 23	2 38	19 7	1 39	18 24	1 16	12 10	1 13	21 55	0 22	21 27	0 12	6 43	0 38	11 0	0 43	22 18	0 17	4 46	4 21	3 48	15 46	2 18					
S14	23 12	22 42	3 31	19 38	1 28	18 42	1 14	11 57	1 12	21 53	0 22	21 28	0 11	6 44	0 38	10 59	0 43	22 17	0 17	4 44	4 20	3 45	15 47	2 19					
M15	23 16	26 0	4 14	20 7	1 18	19 0	1 12	11 45	1 11	21 51	0 22	21 29	0 11	6 45	0 38	10 59	0 43	22 17	0 17	4 40	4 18	3 41	15 48	2 19					
T16	23 19	27 58	4 45	20 36	1 6	19 16	1 10	11 32	1 10	21 49	0 22	21 29	0 11	6 45	0 38	10 59	0 43	22 17	0 17	4 36	4 17	3 38	15 49	2 19					
W17	23 21	28 19	5 0	21 5	0 55	19 33	1 8	11 19	1 9	21 47	0 22	21 30	0 11	6 46	0 38	10 58	0 43	22 17	0 17	4 32	4 16	3 35	15 49	2 19					
T18	23 23	26 55	4 58	21 32	0 44	19 49	1 6	11 7	1 8	21 45	0 22	21 31	0 11	6 47	0 38	10 58	0 43	22 17	0 17	4 27	4 15	3 31	15 50	2 19					
F19	23 25	23 50	4 39	21 58	0 32	20 4	1 4	10 54	1 7	21 42	0 22	21 31	0 11	6 47	0 38	10 58	0 43	22 17	0 17	4 24	4 13	3 28	15 51	2 19					
S20	23 26	19 19	4 2	22 22	0 21	20 19	1 2	10 41	1 6	21 40	0 22	21 32	0 11	6 48	0 38	10 57	0 43	22 17	0 17	4 21	4 12	3 24	15 52	2 20					
S21	23 27	13 43	3 10	22 45	0 10	20 34	1 0	10 28	1 5	21 38	0 22	21 33	0 11	6 49	0 38	10 57	0 43	22 16	0 18	4 19	4 11	3 21	15 52	2 20					
M22	23 27	7 23	2 7	23 7	0n 1	20 47	0 58	10 14	1 4	21 36	0 22	21 33	0 11	6 49	0 39	10 56	0 43	22 16	0 18	4 18	4 10	3 17	15 53	2 20					
T23	23 27	0 42	0 55	23 26	0 12	21 1	0 55	10 1	1 3	21 34	0 22	21 34	0 11	6 50	0 39	10 56	0 43	22 16	0 18	4 18	4 8	3 14	15 54	2 20					
W24	23 26	6s 0	0s19	23 43	0 23	21 13	0 53	9 48	1 2	21 32	0 22	21 35	0 11	6 50	0 39	10 55	0 43	22 16	0 18	4 18	4 7	3 11	15 54	2 20					
T25	23 26	12 23	1 32	23 57	0 33	21 25	0 51	9 35	1 1	21 29	0 22	21 36	0 11	6 51	0 39	10 55	0 43	22 16	0 18	4 18	4 6	3 7	15 55	2 20					
F26	23 24	18 6	2 39	24 9	0 43	21 37	0 48	9 21	1 0	21 27	0 22	21 36	0 11	6 51	0 39	10 54	0 43	22 16	0 18	4 17	4 5	3 4	15 56	2 21					
S27	23 23	22 50	3 36	24 19	0 52	21 48	0 46	9 8	0 59	21 25	0 23	21 37	0 10	6 52	0 39	10 54	0 43	22 15	0 18	4 15	4 3	3 0	15 57	2 21					
S28	23 21	26 14	4 19	24 26	1 1	21 58	0 44	8 54	0 58	21 22	0 23	21 38	0 10	6 52	0 39	10 53	0 43	22 15	0 18	4 11	4 2	2 57	15 57	2 21					
M29	23 18	28 5	4 48	24 29	1 9	22 8	0 41	8 40	0 57	21 20	0 23	21 38	0 10	6 53	0 39	10 53	0 43	22 15	0 18	4 7	4 1	2 53	15 58	2 21					
T30	23n15	28s16	5s 0	24n31	1n16	22n17	0s39	8n27	0n57	21n18	0n23	21s39	0n10	6n53	0s39	10n52	0n43	22n15	0n18	4n 3	4n 0	2s50	15n58	2s21					

ASTRODIENST EPHEMERIS for the year 1931  
geocentric

JULY 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 32 20	8 <sup>52</sup> 12'18	19 <sup>35</sup> 54	9 <sup>52</sup> 39	19 <sup>11</sup> 28	11 <sup>11</sup> 14	26 <sup>52</sup> 25	20°R52	19 <sup>11</sup> 8	3 <sup>11</sup> 35	20 <sup>52</sup> 5	10°R 0	10 <sup>11</sup> 2	25 <sup>11</sup> 55	21 <sup>11</sup> 57	W 1
T 2	18 36 17	9° 9'29	2 <sup>52</sup> 40	11°49	20°41	11°48	26°38	20 <sup>3</sup> 47	19° 9	3°36	20° 7	9 <sup>11</sup> 48	9°58	26° 2	22° 0	T 2
F 3	18 40 13	10° 6'40	15°10	13°58	21°54	12°22	26°51	20°43	19°10	3°37	20° 8	9°38	9°55	26° 8	22° 3	F 3
S 4	18 44 10	11° 3'51	27°24	16° 6	23° 7	12°57	27° 4	20°39	19°11	3°39	20°10	9°30	9°52	26°15	22° 7	S 4
S 5	18 48 7	12° 1'03	9 <sup>11</sup> 26	18°13	24°20	13°31	27°17	20°34	19°12	3°40	20°11	9°25	9°49	26°22	22°10	S 5
M 6	18 52 3	12°58'14	21°18	20°18	25°33	14° 6	27°30	20°30	19°13	3°42	20°13	9°23	9°46	26°28	22°12	M 6
T 7	18 56 0	13°55'26	3 <sup>11</sup> 7	22°22	26°46	14°40	27°43	20°26	19°14	3°43	20°15	9°22	9°43	26°35	22°15	T 7
W 8	18 59 56	14°52'38	14°56	24°24	27°59	15°15	27°56	20°21	19°15	3°45	20°16	9°22	9°39	26°42	22°18	W 8
T 9	19 3 53	15°49'50	26°52	26°24	29°12	15°50	28°10	20°17	19°16	3°47	20°18	9°21	9°36	26°48	22°21	T 9
F 10	19 7 49	16°47'03	9 <sup>11</sup> 0	28°23	0 <sup>52</sup> 26	16°25	28°23	20°12	19°17	3°48	20°19	9°20	9°33	26°55	22°24	F 10
S 11	19 11 46	17°44'16	21°25	0 <sup>52</sup> 20	1°39	17° 0	28°36	20° 8	19°17	3°50	20°21	9°16	9°30	27° 2	22°27	S 11
S 12	19 15 42	18°41'30	4 <sup>11</sup> 10	2°15	2°52	17°35	28°49	20° 4	19°18	3°52	20°23	9°10	9°27	27° 8	22°29	S 12
M13	19 19 39	19°38'44	17°19	4° 8	4° 5	18°10	29° 2	19°59	19°19	3°53	20°24	9° 1	9°24	27°15	22°32	M13
T 14	19 23 36	20°35'59	0 <sup>52</sup> 51	5°59	5°19	18°45	29°16	19°55	19°19	3°55	20°26	8°51	9°20	27°22	22°35	T 14
W15	19 27 32	21°33'14	14°46	7°49	6°32	19°21	29°29	19°50	19°20	3°57	20°27	8°40	9°17	27°28	22°37	W15
T 16	19 31 29	22°30'30	28°59	9°36	7°45	19°56	29°42	19°46	19°20	3°59	20°29	8°29	9°14	27°35	22°40	T 16
F 17	19 35 25	23°27'46	13 <sup>11</sup> 25	11°22	8°59	20°32	29°56	19°41	19°21	4° 0	20°30	8°19	9°11	27°42	22°42	F 17
S 18	19 39 22	24°25'02	27°58	13° 6	10°12	21° 7	0 <sup>52</sup> 9	19°37	19°21	4° 2	20°32	8°12	9° 8	27°48	22°45	S 18
S 19	19 43 18	25°22'18	12 <sup>11</sup> 30	14°47	11°25	21°43	0°22	19°33	19°22	4° 4	20°34	8° 7	9° 4	27°55	22°47	S 19
M20	19 47 15	26°19'34	26°57	16°27	12°39	22°19	0°36	19°28	19°22	4° 6	20°35	8° 5	9° 1	28° 1	22°49	M20
T 21	19 51 11	27°16'51	11 <sup>11</sup> 15	18° 5	13°52	22°55	0°49	19°24	19°22	4° 8	20°37	8°D 5	8°58	28° 8	22°52	T 21
W22	19 55 8	28°14'08	25°22	19°42	15° 6	23°31	1° 2	19°19	19°22	4° 9	20°38	8°R 5	8°55	28°15	22°54	W22
T 23	19 59 5	29°11'25	9 <sup>11</sup> 18	21°16	16°19	24° 7	1°16	19°15	19°23	4°11	20°40	8° 5	8°52	28°21	22°56	T 23
F 24	20 3 1	0 <sup>52</sup> 8'42	23° 2	22°49	17°33	24°43	1°29	19°11	19°23	4°13	20°42	8° 3	8°49	28°28	22°58	F 24
S 25	20 6 58	1° 6'00	6 <sup>11</sup> 34	24°19	18°46	25°19	1°42	19° 6	19°23	4°15	20°43	7°58	8°45	28°35	23° 0	S 25
S 26	20 10 54	2° 3'18	19°55	25°48	20° 0	25°55	1°56	19° 2	19°R23	4°17	20°45	7°51	8°42	28°41	23° 2	S 26
M27	20 14 51	3° 0'37	3 <sup>11</sup> 4	27°14	21°14	26°32	2° 9	18°58	19°23	4°19	20°46	7°42	8°39	28°48	23° 4	M27
T 28	20 18 47	3°57'56	16° 1	28°39	22°27	27° 8	2°22	18°54	19°23	4°21	20°48	7°32	8°36	28°55	23° 6	T 28
W29	20 22 44	4°55'16	28°44	0 <sup>11</sup> 2	23°41	27°45	2°36	18°50	19°23	4°23	20°49	7°21	8°33	29° 1	23° 8	W29
T 30	20 26 41	5°52'37	11 <sup>11</sup> 15	1°23	24°54	28°21	2°49	18°45	19°22	4°25	20°51	7°10	8°30	29° 8	23°10	T 30
F 31	20 30 37	6 <sup>11</sup> 49'58	23 <sup>11</sup> 33	2 <sup>11</sup> 42	26°58	28 <sup>11</sup> 58	3 <sup>11</sup> 2	18 <sup>11</sup> 341	19 <sup>11</sup> 22	4 <sup>11</sup> 27	20 <sup>11</sup> 52	7 <sup>11</sup> 2	8 <sup>11</sup> 26	29 <sup>11</sup> 15	23 <sup>11</sup> 812	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	decl	lat
W 1	23n12	26s51	4s56	24n29	1n23	22n26	0s37	8n13	0n56	21n15	0n23	21s40	0n10	6n54	0s39	10n52	0n43	22n15	0n18	3n58	3n58	2s47	15n59	2s21									
T 2	23 8	24 4	4 37	24 24	1 29	22 33	0 34	7 59	0 55	21 13	0 23	21 41	0 10	6 54	0 39	10 51	0 43	22 15	0 18	3 53	3 57	2 43	16 0	2 22									
F 3	23 4	20 12	4 5	24 17	1 35	22 41	0 32	7 45	0 54	21 10	0 23	21 41	0 10	6 55	0 39	10 51	0 43	22 14	0 18	3 49	3 56	2 40	16 0	2 22									
S 4	22 59	15 33	3 23	24 7	1 39	22 47	0 29	7 31	0 53	21 8	0 23	21 42	0 10	6 55	0 39	10 50	0 43	22 14	0 18	3 46	3 55	2 36	16 1	2 22									
S 5	22 54	10 23	2 31	23 55	1 43	22 53	0 27	7 17	0 52	21 5	0 23	21 43	0 10	6 55	0 39	10 50	0 43	22 14	0 18	3 44	3 53	2 33	16 2	2 22									
M 6	22 49	4 53	1 34	23 40	1 46	22 58	0 24	7 3	0 51	21 3	0 23	21 44	0 10	6 56	0 39	10 49	0 43	22 14	0 18	3 43	3 52	2 29	16 2	2 22									
T 7	22 43	0n44	0 33	23 23	1 49	23 3	0 22	6 49	0 50	21 0	0 23	21 44	0 10	6 56	0 39	10 49	0 43	22 14	0 18	3 43	3 51	2 26	16 3	2 23									
W 8	22 37	6 21	0n30	23 3	1 50	23 7	0 19	6 34	0 49	20 58	0 23	21 45	0 10	6 56	0 39	10 48	0 43	22 14	0 19	3 43	3 50	2 23	16 3	2 23									
T 9	22 31	11 47	1 31	22 42	1 51	23 10	0 17	6 20	0 49	20 55	0 23	21 46	0 9	6 57	0 39	10 47	0 43	22 13	0 19	3 43	3 48	2 19	16 4	2 23									
F 10	22 24	16 53	2 30	22 19	1 51	23 13	0 14	6 6	0 48	20 53	0 24	21 47	0 9	6 57	0 39	10 47	0 43	22 13	0 19	3 42	3 47	2 16	16 4	2 23									
S 11	22 16	21 23	3 23	21 54	1 51	23 15	0 12	5 51	0 47	20 50	0 24	21 47	0 9	6 57	0 39	10 46	0 43	22 13	0 19	3 41	3 46	2 12	16 5	2 23									
S 12	22 9	25 2	4 8	21 27	1 50	23 16	0 9	5 37	0 46	20 47	0 24	21 48	0 9	6 57	0 39	10 46	0 43	22 13	0 19	3 38	3 45	2 9	16 5	2 24									
M13	22 1	27 30	4 40	20 59	1 48	23 17	0 7	5 22	0 45	20 45	0 24	21 49	0 9	6 58	0 39	10 45	0 43	22 13	0 19	3 35	3 43	2 5	16 6	2 24									
T 14	21 52	28 25	4 58	20 29	1 46	23 17	0 4	5 8	0 44	20 42	0 24	21 49	0 9	6 58	0 39	10 44	0 43	22 12	0 19	3 31	3 42	2 2	16 6	2 24									
W15	21 43	27 36	5 0	19 59	1 43	23 16	0 2	4 53	0 43	20 39	0 24	21 50	0 9	6 58	0 39	10 44	0 43	22 12	0 19	3 26	3 41	1 59	16 7	2 24									
T 16	21 34	24 58	4 42	19 27	1 39	23 14	0n 1	4 38	0 42	20 37	0 24	21 51	0 9	6 58	0 39	10 43	0 43	22 12	0 19	3 22	3 40	1 55	16 7	2 24									
F 17	21 25	20 45	4 7	18 54	1 35	23 12	0 3	4 24	0 42	20 34	0 24	21 52	0 9	6 58	0 39	10 42	0 43	22 12	0 19	3 18	3 38	1 52	16 7	2 25									
S 18	21 15	15 15	3 16	18 20	1 30	23 9	0 6	4 9	0 41	20 31	0 24	21 52	0 9	6 58	0 39	10 42	0 43	22 12	0 19	3 15	3 37	1 48	16 8	2 25									
S 19	21 4	8 54	2 11	17 46	1 25	23 6	0 8	3 54	0 40	20 29	0 24	21 53	0 9	6 59	0 39	10 41	0 43	22 12	0 19	3 13	3 36	1 45	16 8	2 25									
M20	20 54	2 7	0 59	17 11	1 20	23 2	0 11	3 39	0 39	20 26	0 24	21 54	0 8	6 59	0 39	10 40	0 43	22 11	0 19	3 12	3 35	1 41	16 9	2 25									
T 21	20 43	4s43	0s17	16 35	1 14	22 57	0 13	3 24	0 38	20 23	0 24	21 55	0 8	6 59	0 39	10 40	0 43	22 11	0 19	3 12	3 33	1 38	16 9	2 25									
W22	20 31	11 13	1 31	15 59	1 7	22 51	0 16	3 9	0 37	20 20	0 24	21 55	0 8	6 59	0 39	10 39	0 43	22 11	0 19	3 12	3 32	1 34	16 9	2 26									
T 23	20 20	17 6	2 38	15 22	1 0	22 45	0 18	2 54	0 37	20 17	0 25	21 56	0 8	6 59	0 39	10 38	0 43	22 11	0 19	3 12	3 31	1 31	16 10	2 26									
F 24	20 8	22 0	3 35	14 45	0 53	22 38	0 21	2 39	0 36	20 14	0 25	21 57	0 8	6 59	0 39	10 38	0 43	22 11	0 20	3 12	3 30	1 28	16 10	2 26									
S 25	19 55	25 40	4 19	14 8	0 45	22 31	0 23	2 24	0 35	20 11	0 25	21 57	0 8	6 59	0 39	10 37	0 43	22 11	0 20	3 10	3 28	1 24	16 10	2 26									
S 26	19 43	27 52	4 49	13 31	0 37	22 23	0 25	2 9	0 34	20 9	0 25	21 58	0 8	6 59	0 39	10 36	0 43	22 10	0 20	3 7	3 27	1 21	16 11	2 27									
M27	19 30	28 27	5 2	12 53	0 29	22 14	0 28	1 54	0 33	20 6	0 25	21 59	0 8	6 59	0 39	10 36	0 43	22 10	0 20	3 3	3 26	1 17	16 11	2 27									
T 28	19 16	27 27	5 0	12 16	0 20	22 4	0 30	1 38	0 33	20 3	0 25	21 59	0 8	6 59	0 39	10 35	0 43	22 10	0 20	2 59	3 25	1 14	16 11	2 27									
W29	19 3	25 2	4 43	11 39	0 11	21 54	0 32	1 23	0 32	20 0	0 25	22 0	0 8	6 59	0 40	10 34	0 43	22 10	0 20	2 55	3 23	1 10	16 11	2 27									
T 30	18 49	21 27	4 12	11 1	0 2	21 43	0 34	1 8	0 31	19 57	0 25	22 1	0 8	6 59	0 40	10 33	0 43	22 10	0 20	2 51	3 22	1 7	16 12	2 27									
F 31	18n34	16s59	3s30	10n24	0s 7	21n32	0n36	0n52	0n30	19n54	0n25	22s 1	0n 7	6n58	0s40	10n33	0n43	22n 9	0n20	2n47	3n21	1s 3	16n12	2s28									



ASTRODIENST EPHEMERIS for the year 1931  
geocentric

AUGUST 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 34 34	7♏47'20	5♊39	3♊58	27♊22	29♊35	3♊16	18°R37	19°R22	4♊29	20♊54	6°R55	8°V23	29♊21	23♊14	S 1
S 2	20 38 30	8°44'43	17°36	5°13	28°36	0♊11	3°29	18♊33	19°V22	4°31	20°56	6°V51	8°20	29°28	23°15	S 2
M 3	20 42 27	9°42'08	29°26	6°25	29°49	0°48	3°42	18°29	19°21	4°33	20°57	6°49	8°17	29°35	23°17	M 3
T 4	20 46 23	10°39'33	11°V13	7°35	1♊3	1°25	3°56	18°25	19°21	4°35	20°59	6°D49	8°14	29°41	23°18	T 4
W 5	20 50 20	11°36'59	23°1	8°42	2°17	2°2	4°9	18°21	19°20	4°37	21°0	6°49	8°10	29°48	23°20	W 5
T 6	20 54 16	12°34'27	4♊57	9°48	3°31	2°39	4°22	18°17	19°20	4°39	21°2	6°50	8°7	29°54	23°21	T 6
F 7	20 58 13	13°31'56	17°4	10°50	4°45	3°17	4°35	18°14	19°19	4°41	21°3	6°R51	8°4	0°V1	23°23	F 7
S 8	21 2 9	14°29'27	29°28	11°50	5°58	3°54	4°49	18°10	19°19	4°43	21°5	6°49	8°1	0°8	23°24	S 8
S 9	21 6 6	15°26'58	12♊14	12°47	7°12	4°31	5°2	18°6	19°18	4°46	21°6	6°46	7°58	0°14	23°25	S 9
M10	21 10 3	16°24'32	25°24	13°42	8°26	5°9	5°15	18°3	19°17	4°48	21°7	6°41	7°55	0°21	23°27	M10
T 11	21 13 59	17°22'06	9♊2	14°33	9°40	5°46	5°28	17°59	19°17	4°50	21°9	6°34	7°51	0°28	23°28	T 11
W12	21 17 56	18°19'42	23°6	15°21	10°54	6°24	5°41	17°55	19°16	4°52	21°10	6°27	7°48	0°34	23°29	W12
T 13	21 21 52	19°17'19	7♊34	16°5	12°8	7°1	5°54	17°52	19°15	4°54	21°12	6°19	7°45	0°41	23°30	T 13
F 14	21 25 49	20°14'57	22°18	16°46	13°22	7°39	6°8	17°49	19°14	4°56	21°13	6°13	7°42	0°48	23°31	F 14
S 15	21 29 45	21°12'37	7♊12	17°24	14°36	8°17	6°21	17°45	19°13	4°58	21°15	6°8	7°39	0°54	23°32	S 15
S 16	21 33 42	22°10'17	22°7	17°57	15°51	8°55	6°34	17°42	19°12	5°1	21°16	6°6	7°36	1°1	23°33	S 16
M17	21 37 39	23°7'59	6♊55	18°26	17°5	9°33	6°47	17°39	19°11	5°3	21°17	6°D5	7°32	1°8	23°34	M17
T 18	21 41 35	24°5'42	21°31	18°51	18°19	10°11	7°0	17°36	19°10	5°5	21°19	6°6	7°29	1°14	23°34	T 18
W19	21 45 32	25°3'26	5♊49	19°11	19°33	10°49	7°13	17°33	19°9	5°7	21°20	6°7	7°26	1°21	23°35	W19
T 20	21 49 28	26°1'10	19°50	19°26	20°47	11°27	7°26	17°30	19°8	5°9	21°22	6°R8	7°23	1°28	23°36	T 20
F 21	21 53 25	26°58'57	3♊31	19°36	22°1	12°5	7°39	17°27	19°7	5°12	21°23	6°8	7°20	1°34	23°36	F 21
S 22	21 57 21	27°56'44	16°54	19°R41	23°16	12°44	7°52	17°24	19°5	5°14	21°24	6°6	7°16	1°41	23°37	S 22
S 23	22 1 18	28°54'32	0♊1	19°40	24°30	13°22	8°5	17°21	19°4	5°16	21°26	6°3	7°13	1°47	23°37	S 23
M24	22 5 14	29°52'22	12°53	19°34	25°44	14°1	8°17	17°18	19°3	5°18	21°27	5°58	7°10	1°54	23°37	M24
T 25	22 9 11	0♊50'12	25°31	19°21	26°58	14°39	8°30	17°16	19°2	5°20	21°28	5°53	7°7	2°1	23°38	T 25
W26	22 13 8	1°48'04	7♊56	19°3	28°13	15°18	8°43	17°13	19°0	5°23	21°29	5°47	7°4	2°7	23°38	W26
T 27	22 17 4	2°45'58	20°11	18°39	29°27	15°57	8°56	17°11	18°59	5°25	21°31	5°41	7°1	2°14	23°38	T 27
F 28	22 21 1	3°43'53	2♊17	18°8	0♊41	16°35	9°8	17°8	18°57	5°27	21°32	5°36	6°57	2°21	23°38	F 28
S 29	22 24 57	4°41'49	14°14	17°33	1°56	17°14	9°21	17°6	18°56	5°29	21°33	5°33	6°54	2°27	23°39	S 29
S 30	22 28 54	5°39'47	26°6	16°51	3°10	17°53	9°34	17°4	18°54	5°32	21°34	5°31	6°51	2°34	23°R39	S 30
M31	22 32 50	6♊37'47	7°V53	16♊5	4♊24	18♊32	9♊46	17♊2	18°V53	5♊34	21°36	5°D31	6°V48	2°V41	23°R38	M31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	18n20	11s54	2s39	9n47	0s17	21n20	0n39	0n37	0n29	19n51	0n25	22s 2	0n 7	6n58	0s40	10n32	0n43	22n 9	0n20	2n45	3n20	1s 0	16n12	2s28						
S 2	18 5	6 27	1 41	9 11	0 27	21 7	0 41	0 22	0 29	19 48	0 25	22 3	0 7	6 58	0 40	10 31	0 43	22 9	0 20	2 43	3 18	0 57	16 12	2 28						
M 3	17 50	0 50	0 40	8 35	0 37	20 54	0 43	0 6	0 28	19 45	0 26	22 3	0 7	6 58	0 40	10 30	0 43	22 9	0 20	2 42	3 17	0 53	16 12	2 28						
T 4	17 34	4n48	0n24	7 59	0 48	20 40	0 45	0s 9	0 27	19 42	0 26	22 4	0 7	6 58	0 40	10 30	0 43	22 9	0 20	2 42	3 16	0 50	16 13	2 29						
W 5	17 19	10 17	1 26	7 24	0 59	20 25	0 47	0 25	0 26	19 39	0 26	22 5	0 7	6 58	0 40	10 29	0 43	22 9	0 20	2 43	3 15	0 46	16 13	2 29						
T 6	17 2	15 28	2 25	6 50	1 9	20 10	0 49	0 40	0 25	19 36	0 26	22 5	0 7	6 57	0 40	10 28	0 43	22 8	0 20	2 43	3 13	0 43	16 13	2 29						
F 7	16 46	20 7	3 19	6 16	1 20	19 55	0 51	0 56	0 25	19 33	0 26	22 6	0 7	6 57	0 40	10 27	0 43	22 8	0 20	2 43	3 12	0 39	16 13	2 29						
S 8	16 30	24 2	4 5	5 43	1 31	19 38	0 53	1 11	0 24	19 30	0 26	22 6	0 7	6 57	0 40	10 27	0 43	22 8	0 20	2 43	3 11	0 36	16 13	2 30						
S 9	16 13	26 54	4 40	5 11	1 42	19 21	0 55	1 27	0 23	19 26	0 26	22 7	0 7	6 57	0 40	10 26	0 43	22 8	0 21	2 41	3 10	0 32	16 13	2 30						
M10	15 56	28 24	5 2	4 40	1 54	19 4	0 56	1 42	0 22	19 23	0 26	22 8	0 7	6 56	0 40	10 25	0 43	22 8	0 21	2 39	3 8	0 29	16 13	2 30						
T 11	15 38	28 15	5 7	4 10	2 5	18 46	0 58	1 58	0 22	19 20	0 26	22 8	0 6	6 56	0 40	10 24	0 43	22 8	0 21	2 37	3 7	0 26	16 13	2 30						
W12	15 21	26 19	4 55	3 41	2 16	18 28	1 0	2 13	0 21	19 17	0 26	22 9	0 6	6 56	0 40	10 24	0 43	22 7	0 21	2 34	3 6	0 22	16 13	2 31						
T 13	15 3	22 38	4 24	3 14	2 27	18 9	1 1	2 29	0 20	19 14	0 27	22 9	0 6	6 55	0 40	10 23	0 43	22 7	0 21	2 31	3 5	0 19	16 13	2 31						
F 14	14 45	17 28	3 34	2 48	2 38	17 49	1 3	2 44	0 19	19 11	0 27	22 10	0 6	6 55	0 40	10 22	0 43	22 7	0 21	2 28	3 3	0 15	16 13	2 31						
S 15	14 26	11 11	2 30	2 23	2 49	17 29	1 5	3 0	0 19	19 8	0 27	22 10	0 6	6 55	0 40	10 21	0 43	22 7	0 21	2 26	3 2	0 12	16 13	2 31						
S 16	14 8	4 17	1 15	2 0	3 0	17 9	1 6	3 16	0 18	19 4	0 27	22 11	0 6	6 54	0 40	10 20	0 43	22 7	0 21	2 25	3 1	0 8	16 13	2 32						
M17	13 49	2s49	0s 5	1 39	3 11	16 48	1 8	3 31	0 17	19 1	0 27	22 11	0 6	6 54	0 40	10 20	0 43	22 7	0 21	2 25	3 0	0 5	16 13	2 32						
T 18	13 30	9 40	1 23	1 19	3 21	16 26	1 9	3 47	0 16	18 58	0 27	22 12	0 6	6 53	0 40	10 19	0 43	22 7	0 21	2 25	2 58	0 1	16 13	2 32						
W19	13 11	15 54	2 34	1 2	3 31	16 5	1 10	4 3	0 16	18 55	0 27	22 12	0 6	6 53	0 40	10 18	0 43	22 6	0 21	2 26	2 57	0n2	16 13	2 32						
T 20	12 51	21 9	3 35	0 48	3 41	15 42	1 12	4 18	0 15	18 52	0 27	22 13	0 6	6 53	0 40	10 17	0 43	22 6	0 21	2 26	2 56	0 6	16 13	2 32						
F 21	12 31	25 9	4 22	0 35	3 50	15 19	1 13	4 34	0 14	18 48	0 27	22 13	0 6	6 52	0 40	10 16	0 43	22 6	0 21	2 26	2 55	0 9	16 13	2 33						
S 22	12 12	27 41	4 54	0 25	3 59	14 56	1 14	4 50	0 13	18 45	0 27	22 14	0 5	6 52	0 40	10 16	0 43	22 6	0 21	2 25	2 53	0 12	16 13	2 33						
S 23	11 52	28 36	5 9	0 19	4 7	14 33	1 15	5 5	0 13	18 42	0 28	22 14	0 5	6 51	0 40	10 15	0 43	22 6	0 21	2 24	2 52	0 16	16 13	2 33						
M24	11 31	27 57	5 9	0 15	4 14	14 9	1 16	5 21	0 12	18 39	0 28	22 15	0 5	6 51	0 40	10 14	0 43	22 6	0 22	2 22	2 51	0 19	16 13	2 33						
T 25	11 11	25 51	4 53	0 14	4 20	13 44	1 17	5 36	0 11	18 36	0 28	22 15	0 5	6 50	0 40	10 13	0 43	22 6	0 22	2 20	2 50	0 23	16 12	2 34						
W26	10 50	22 32	4 24	0 16	4 25	13 19	1 18	5 52	0 10	18 32	0 28	22 15	0 5	6 50	0 40	10 12	0 43	22 5	0 22	2 18	2 48	0 26	16 12	2 34						
T 27	10 30	18 17	3 43	0 22	4 29	12 54	1 19	6 8	0 10	18 29	0 28	22 16	0 5	6 49	0 40	10 12	0 43	22 5	0 22	2 16	2 47	0 30	16 12	2 34						
F 28	10 9	13 20	2 52	0 32	4 31	12 29	1 20	6 23	0 9	18 26	0 28	22 16	0 5	6 48	0 40	10 11	0 43	22 5	0 22	2 14	2 46	0 33	16 12	2 34						
S 29	9 48	7 58	1 54	0 45	4 32	12 3	1 21	6 39	0 8	18 23	0 28	22 17	0 5	6 48	0 40	10 10	0 43	22 5	0 22	2 12	2 45	0 37	16 12	2 35						
S 30	9 26	2 20	0 51	1 1	4 31	11 37	1 21	6 54	0 8	18 19	0 28	22 17	0 5	6 47	0 40	10 9	0 43	22 5	0 22	2 12	2 43	0 40	16 11	2 35						
M31	9n 5	3n20	0n13	1n21	4s29	11n10	1n22	7s10	0n 7	18n16	0n28	22s17	0n 5	6n47	0s40	10n 8	0n43	22n 5	0n22	2n11	2n42	0n43	16n11	2s35						

# ASTRODIENST EPHEMERIS for the year 1931

## geocentric

SEPTEMBER 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 36 47	7♎35'48	19♍40	15°R15	5♎39	19♎11	9♎59	17°R 0	18°R51	5♎36	21♎37	5♍31	6♍45	2♍47	23°R38	T 1
W 2	22 40 43	8°33'51	1♎29	14♎21	6°53	19°50	10°11	16♎58	18°Y49	5°38	21°38	5°33	6°42	2°54	23♎38	W 2
T 3	22 44 40	9°31'57	13°25	13°25	8° 8	20°29	10°24	16°56	18°48	5°40	21°39	5°35	6°38	3° 1	23°38	T 3
F 4	22 48 36	10°30'04	25°32	12°27	9°22	21° 9	10°36	16°54	18°46	5°43	21°40	5°36	6°35	3° 7	23°38	F 4
S 5	22 52 33	11°28'13	7♎55	11°29	10°36	21°48	10°48	16°53	18°44	5°45	21°41	5°R37	6°32	3°14	23°37	S 5
S 6	22 56 30	12°26'24	20°37	10°32	11°51	22°27	11° 1	16°51	18°42	5°47	21°42	5°37	6°29	3°20	23°37	S 6
M 7	23 0 26	13°24'37	3♎44	9°37	13° 5	23° 7	11°13	16°50	18°41	5°49	21°43	5°36	6°26	3°27	23°36	M 7
T 8	23 4 23	14°22'52	17°17	8°46	14°20	23°46	11°25	16°48	18°39	5°52	21°45	5°33	6°22	3°34	23°36	T 8
W 9	23 8 19	15°21'10	1♎19	7°59	15°35	24°26	11°37	16°47	18°37	5°54	21°46	5°31	6°19	3°40	23°35	W 9
T 10	23 12 16	16°19'29	15°46	7°19	16°49	25° 6	11°49	16°46	18°35	5°56	21°47	5°28	6°16	3°47	23°35	T 10
F 11	23 16 12	17°17'50	0♎35	6°45	18° 4	25°45	12° 1	16°45	18°33	5°58	21°48	5°26	6°13	3°54	23°34	F 11
S 12	23 20 9	18°16'13	15°39	6°19	19°18	26°25	12°13	16°44	18°31	6° 0	21°49	5°24	6°10	4° 0	23°33	S 12
S 13	23 24 5	19°14'38	0♎49	6° 2	20°33	27° 5	12°25	16°43	18°29	6° 3	21°50	5°D24	6° 7	4° 7	23°32	S 13
M14	23 28 2	20°13'04	15°55	5°D54	21°48	27°45	12°37	16°42	18°27	6° 5	21°50	5°24	6° 3	4°14	23°32	M14
T 15	23 31 59	21°11'33	0♎49	5°55	23° 2	28°25	12°49	16°41	18°25	6° 7	21°51	5°25	6° 0	4°20	23°31	T 15
W16	23 35 55	22°10'03	15°25	6° 5	24°17	29° 5	13° 0	16°40	18°23	6° 9	21°52	5°26	5°57	4°27	23°30	W16
T 17	23 39 52	23° 8'35	29°37	6°25	25°32	29°45	13°12	16°40	18°21	6°11	21°53	5°27	5°54	4°34	23°28	T 17
F 18	23 43 48	24° 7'08	13♎75	6°54	26°46	0♎26	13°23	16°40	18°18	6°13	21°54	5°27	5°51	4°40	23°27	F 18
S 19	23 47 45	25° 5'43	26°49	7°31	28° 1	1° 6	13°35	16°39	18°16	6°15	21°55	5°R27	5°47	4°47	23°26	S 19
S 20	23 51 41	26° 4'20	9♎51	8°18	29°16	1°46	13°46	16°39	18°14	6°18	21°56	5°27	5°44	4°54	23°25	S 20
M21	23 55 38	27° 2'58	22°34	9°12	0♎30	2°27	13°58	16°39	18°12	6°20	21°57	5°26	5°41	5° 0	23°24	M21
T 22	23 59 34	28° 1'38	5♎ 0	10°14	1°45	3° 7	14° 9	16°D39	18°10	6°22	21°57	5°26	5°38	5° 7	23°22	T 22
W23	0 3 31	29° 0'20	17°13	11°23	3° 0	3°48	14°20	16°39	18° 7	6°24	21°58	5°25	5°35	5°13	23°21	W23
T 24	0 7 28	29°59'03	29°16	12°38	4°15	4°29	14°31	16°39	18° 5	6°26	21°59	5°24	5°32	5°20	23°19	T 24
F 25	0 11 24	0♎57'48	11♎12	13°59	5°29	5° 9	14°42	16°39	18° 3	6°28	22° 0	5°23	5°28	5°27	23°18	F 25
S 26	0 15 21	1°56'35	23° 2	15°24	6°44	5°50	14°53	16°40	18° 1	6°30	22° 0	5°23	5°25	5°33	23°16	S 26
S 27	0 19 17	2°55'25	4♍50	16°54	7°59	6°31	15° 4	16°40	17°58	6°32	22° 1	5°D23	5°22	5°40	23°15	S 27
M28	0 23 14	3°54'16	16°38	18°28	9°14	7°12	15°15	16°41	17°56	6°34	22° 2	5°23	5°19	5°47	23°13	M28
T 29	0 27 10	4°53'09	28°28	20° 5	10°28	7°53	15°25	16°41	17°54	6°36	22° 2	5°R23	5°16	5°53	23°11	T 29
W30	0 31 7	5♎52'04	10♎22	21♎44	11♎43	8♎34	15♎36	16♎42	17°Y51	6♎38	22♎ 3	5♍23	5♍13	6♍ 0	23♎ 9	W30

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
T 1	8n43	8n53	1n17	1n45	4s25	10n44	1n23	7s25	0n 6	18n13	0n29	22s18	0n 5	6n46	0s40	10n 8	0n43	22n 5	0n22	2n12	2n41	0n47	16n11	2s35			
W 2	8 22	14 9	2 18	2 11	4 19	10 16	1 23	7 41	0 5	18 10	0 29	22 18	0 4	6 45	0 40	10 7	0 43	22 5	0 22	2 12	2 39	0 50	16 11	2 36			
T 3	8 0	18 57	3 14	2 40	4 10	9 49	1 24	7 56	0 5	18 6	0 29	22 18	0 4	6 45	0 40	10 6	0 43	22 4	0 22	2 13	2 38	0 54	16 10	2 36			
F 4	7 38	23 4	4 2	3 11	4 0	9 21	1 24	8 11	0 4	18 3	0 29	22 19	0 4	6 44	0 40	10 5	0 43	22 4	0 22	2 14	2 37	0 57	16 10	2 36			
S 5	7 16	26 14	4 39	3 44	3 49	8 54	1 24	8 27	0 3	18 0	0 29	22 19	0 4	6 43	0 40	10 4	0 43	22 4	0 22	2 14	2 36	1 1	16 10	2 36			
S 6	6 54	28 11	5 5	4 18	3 35	8 25	1 24	8 42	0 3	17 57	0 29	22 19	0 4	6 43	0 40	10 3	0 43	22 4	0 22	2 14	2 34	1 4	16 9	2 37			
M 7	6 31	28 39	5 15	4 53	3 20	7 57	1 25	8 57	0 2	17 53	0 29	22 19	0 4	6 42	0 40	10 3	0 43	22 4	0 23	2 13	2 33	1 8	16 9	2 37			
T 8	6 9	27 26	5 9	5 27	3 3	7 28	1 25	9 13	0 1	17 50	0 29	22 20	0 4	6 41	0 40	10 2	0 43	22 4	0 23	2 13	2 32	1 11	16 9	2 37			
W 9	5 47	24 30	4 44	6 1	2 45	7 0	1 25	9 28	0 1	17 47	0 30	22 20	0 4	6 40	0 40	10 1	0 43	22 4	0 23	2 12	2 31	1 15	16 8	2 37			
T 10	5 24	19 57	4 1	6 33	2 27	6 31	1 25	9 43	0s 0	17 44	0 30	22 20	0 4	6 40	0 40	10 0	0 43	22 4	0 23	2 10	2 29	1 18	16 8	2 38			
F 11	5 1	14 5	3 1	7 4	2 8	6 1	1 25	9 58	0 1	17 40	0 30	22 20	0 4	6 39	0 40	9 59	0 43	22 4	0 23	2 10	2 28	1 21	16 7	2 38			
S 12	4 38	7 18	1 47	7 31	1 48	5 32	1 25	10 13	0 1	17 37	0 30	22 21	0 4	6 38	0 40	9 59	0 43	22 4	0 23	2 9	2 27	1 25	16 7	2 38			
S 13	4 16	0 4	0 25	7 56	1 29	5 2	1 24	10 28	0 2	17 34	0 30	22 21	0 3	6 37	0 41	9 58	0 43	22 3	0 23	2 9	2 26	1 28	16 7	2 38			
M14	3 53	7s 9	0s58	8 17	1 9	4 33	1 24	10 43	0 3	17 31	0 30	22 21	0 3	6 37	0 41	9 57	0 43	22 3	0 23	2 9	2 24	1 32	16 6	2 39			
T 15	3 30	13 53	2 16	8 34	0 50	4 3	1 24	10 58	0 4	17 28	0 30	22 21	0 3	6 36	0 41	9 56	0 43	22 3	0 23	2 9	2 23	1 35	16 6	2 39			
W16	3 7	19 43	3 24	8 47	0 32	3 33	1 23	11 13	0 4	17 24	0 31	22 21	0 3	6 35	0 41	9 56	0 43	22 3	0 23	2 9	2 22	1 39	16 5	2 39			
T 17	2 43	24 16	4 17	8 57	0 14	3 3	1 23	11 28	0 5	17 21	0 31	22 22	0 3	6 34	0 41	9 55	0 43	22 3	0 23	2 10	2 21	1 42	16 5	2 39			
F 18	2 20	27 17	4 54	9 1	0n 2	2 33	1 22	11 43	0 6	17 18	0 31	22 22	0 3	6 33	0 41	9 54	0 43	22 3	0 23	2 10	2 19	1 46	16 4	2 40			
S 19	1 57	28 38	5 14	9 2	0 18	2 2	1 22	11 58	0 6	17 15	0 31	22 22	0 3	6 33	0 41	9 53	0 43	22 3	0 23	2 10	2 17	1 49	16 4	2 40			
S 20	1 34	28 20	5 16	8 58	0 33	1 32	1 21	12 12	0 7	17 12	0 31	22 22	0 3	6 32	0 41	9 52	0 43	22 3	0 23	2 10	2 18	1 52	16 3	2 40			
M21	1 10	26 33	5 3	8 50	0 46	1 2	1 21	12 27	0 8	17 9	0 31	22 22	0 3	6 31	0 41	9 52	0 43	22 3	0 23	2 10	2 16	1 56	16 3	2 40			
T 22	0 47	23 29	4 36	8 38	0 58	0 31	1 20	12 41	0 8	17 6	0 31	22 22	0 3	6 30	0 41	9 51	0 43	22 3	0 24	2 9	2 14	1 59	16 2	2 41			
W23	0 24	19 26	3 57	8 22	1 9	0 1	1 19	12 56	0 9	17 2	0 32	22 22	0 3	6 29	0 41	9 50	0 43	22 3	0 24	2 9	2 13	2 3	16 1	2 41			
T 24	0 0	14 40	3 8	8 2	1 18	0s30	1 18	13 10	0 10	16 59	0 32	22 22	0 2	6 28	0 41	9 49	0 43	22 3	0 24	2 9	2 12	2 6	16 1	2 41			
F 25	0s23	9 23	2 10	7 38	1 27	1 0	1 17	13 24	0 10	16 56	0 32	22 22	0 2	6 27	0 41	9 49	0 43	22 3	0 24	2 8	2 11	2 10	16 0	2 41			
S 26	0 46	3 48	1 8	7 12	1 34	1 31	1 16	13 39	0 11	16 53	0 32	22 22	0 2	6 26	0 41	9 48	0 43	22 3	0 24	2 8	2 9	2 13	16 0	2 41			
S 27	1 10	1n53	0 3	6 42	1 40	2 1	1 15	13 53	0 11	16 50	0 32	22 22	0 2	6 26	0 41	9 47	0 43	22 3	0 24	2 8	2 8	2 17	15 59	2 42			
M28	1 33	7 30	1n 2	6 10	1 45	2 32	1 14	14 7	0 12	16 47	0 32	22 22	0 2	6 25	0 41	9 46	0 43	22 3	0 24	2 8	2 7	2 20	15 58	2 42			
T 29	1 57	12 53	2 5	5 36	1 48	3 2	1 13	14 21	0 13	16 44	0 32	22 22	0 2	6 24	0 41	9 46	0 43	22 3	0 24	2 8	2 5	2 24	15 58	2 42			
W30	2s20	17n49	3n 2	4n59	1n51	3s32	1n11	14s35	0s13	16n41	0n33	22s22	0n 2	6n23	0s41	9n45	0n43	22n 3	0n24	2n 8	2n 4	2n27	15n57	2s42			

ASTRODIENST EPHEMERIS for the year 1931  
geocentric

OCTOBER 1931

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 35 3	6♏51'02	22♏23	23♏26	12♏58	9♏15	15♏47	16♏43	17°R49	6♏40	22♏3	5°R23	5°Y 9	6°Y 7	23°R 8	T 1
F 2	0 39 0	7°50'01	4♏34	25° 9	14°13	9°56	15°57	16°44	17°Y46	6°42	22° 4	5°Y23	5° 6	6°13	23♏6	F 2
S 3	0 42 57	8°49'03	16°58	26°53	15°27	10°37	16° 7	16°45	17°44	6°44	22° 4	5°22	5° 3	6°20	23° 4	S 3
S 4	0 46 53	9°48'08	29°40	28°39	16°42	11°19	16°18	16°46	17°42	6°46	22° 5	5°22	5° 0	6°27	23° 2	S 4
M 5	0 50 50	10°47'14	12♏42	0♏25	17°57	12° 0	16°28	16°47	17°39	6°48	22° 5	5°D22	4°57	6°33	23° 0	M 5
T 6	0 54 46	11°46'24	26° 7	2°11	19°12	12°42	16°38	16°49	17°37	6°50	22° 6	5°22	4°53	6°40	22°58	T 6
W 7	0 58 43	12°45'35	9♏57	3°58	20°27	13°23	16°48	16°50	17°34	6°52	22° 6	5°23	4°50	6°46	22°55	W 7
T 8	1 2 39	13°44'49	24°12	5°44	21°42	14° 5	16°58	16°52	17°32	6°54	22° 7	5°23	4°47	6°53	22°53	T 8
F 9	1 6 36	14°44'04	8♏51	7°31	22°56	14°47	17° 7	16°53	17°30	6°56	22° 7	5°24	4°44	7° 0	22°51	F 9
S 10	1 10 32	15°43'22	23°48	9°17	24°11	15°28	17°17	16°55	17°27	6°57	22° 7	5°25	4°41	7° 6	22°49	S 10
S 11	1 14 29	16°42'43	8♏57	11° 3	25°26	16°10	17°27	16°57	17°25	6°59	22° 8	5°R25	4°38	7°13	22°46	S 11
M12	1 18 26	17°42'05	24° 9	12°48	26°41	16°52	17°36	16°59	17°22	7° 1	22° 8	5°24	4°34	7°20	22°44	M12
T 13	1 22 22	18°41'29	9♏13	14°33	27°56	17°34	17°45	17° 1	17°20	7° 3	22° 8	5°23	4°31	7°26	22°42	T 13
W14	1 26 19	19°40'56	24° 2	16°18	29°11	18°16	17°55	17° 3	17°17	7° 5	22° 9	5°22	4°28	7°33	22°39	W14
T 15	1 30 15	20°40'24	8♏28	18° 2	0♏26	18°58	18° 4	17° 5	17°15	7° 6	22° 9	5°20	4°25	7°40	22°37	T 15
F 16	1 34 12	21°39'54	22°27	19°45	1°41	19°40	18°13	17° 8	17°13	7° 8	22° 9	5°18	4°22	7°46	22°34	F 16
S 17	1 38 8	22°39'26	5♏58	21°28	2°56	20°22	18°22	17°10	17°10	7°10	22° 9	5°16	4°19	7°53	22°32	S 17
S 18	1 42 5	23°39'00	19° 3	23°10	4°10	21° 5	18°30	17°12	17° 8	7°11	22° 9	5°D16	4°15	8° 0	22°29	S 18
M19	1 46 1	24°38'35	1♏45	24°51	5°25	21°47	18°39	17°15	17° 5	7°13	22°10	5°16	4°12	8° 6	22°26	M19
T 20	1 49 58	25°38'12	14° 7	26°32	6°40	22°29	18°47	17°18	17° 3	7°15	22°10	5°17	4° 9	8°13	22°24	T 20
W21	1 53 55	26°37'51	26°14	28°12	7°55	23°12	18°56	17°21	17° 0	7°16	22°10	5°18	4° 6	8°19	22°21	W21
T 22	1 57 51	27°37'31	8♏10	29°51	9°10	23°54	19° 4	17°23	16°58	7°18	22°10	5°20	4° 3	8°26	22°18	T 22
F 23	2 1 48	28°37'13	20° 0	1♏30	10°25	24°37	19°12	17°26	16°56	7°19	22°10	5°21	3°59	8°33	22°16	F 23
S 24	2 5 44	29°36'57	1°Y48	3° 8	11°40	25°20	19°20	17°29	16°53	7°21	22°R10	5°R22	3°56	8°39	22°13	S 24
S 25	2 9 41	0♏36'43	13°35	4°46	12°55	26° 2	19°28	17°33	16°51	7°22	22°10	5°22	3°53	8°46	22°10	S 25
M26	2 13 37	1°36'31	25°26	6°23	14°10	26°45	19°36	17°36	16°49	7°24	22°10	5°20	3°50	8°53	22° 7	M26
T 27	2 17 34	2°36'20	7♏23	8° 0	15°24	27°28	19°43	17°39	16°46	7°25	22°10	5°17	3°47	8°59	22° 4	T 27
W28	2 21 30	3°36'12	19°26	9°36	16°39	28°11	19°51	17°42	16°44	7°27	22°10	5°13	3°44	9° 6	22° 1	W28
T 29	2 25 27	4°36'06	1♏38	11°11	17°54	28°54	19°58	17°46	16°42	7°28	22°10	5° 8	3°40	9°13	21°58	T 29
F 30	2 29 24	5°36'02	14° 1	12°46	19° 9	29°37	20° 5	17°50	16°39	7°29	22°10	5° 3	3°37	9°19	21°55	F 30
S 31	2 33 20	6♏36'00	26♏35	14♏21	20♏24	0♏20	20♏12	17♏53	16°Y37	7°Y31	22♏9	4°Y58	3°Y34	9°Y26	21♏52	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	decl	lat
T 1	2s43	22n 7	3n53	4n20	1n53	4s 3	1n10	14s48	0s14	16n38	0n33	22s22	0n 2	6n22	0s41	9n44	0n43	22n 3	0n24	2n 8	2n 3	2n30	15n56	2s43		
F 2	3 7	25 32	4 33	3 40	1 54	4 33	1 9	15 2	0 15	16 35	0 33	22 22	0 2	6 21	0 41	9 44	0 43	22 3	0 24	2 8	2 2	2 34	15 56	2 43		
S 3	3 30	27 49	5 2	2 59	1 54	5 3	1 7	15 16	0 15	16 32	0 33	22 22	0 2	6 20	0 41	9 43	0 43	22 3	0 24	2 8	2 0	2 37	15 55	2 43		
S 4	3 53	28 43	5 16	2 16	1 53	5 33	1 6	15 29	0 16	16 29	0 33	22 22	0 2	6 19	0 41	9 42	0 43	22 3	0 24	2 8	1 59	2 41	15 54	2 43		
M 5	4 16	28 4	5 15	1 33	1 52	6 3	1 4	15 42	0 17	16 26	0 33	22 22	0 2	6 18	0 41	9 41	0 43	22 3	0 25	2 8	1 58	2 44	15 54	2 43		
T 6	4 39	25 48	4 57	0 49	1 50	6 33	1 3	15 56	0 17	16 24	0 34	22 22	0 1	6 17	0 41	9 41	0 43	22 2	0 25	2 8	1 57	2 48	15 53	2 44		
W 7	5 3	21 58	4 22	0 4	1 48	7 3	1 1	16 9	0 18	16 21	0 34	22 22	0 1	6 17	0 41	9 40	0 43	22 3	0 25	2 8	1 55	2 51	15 52	2 44		
T 8	5 26	16 45	3 29	0s41	1 44	7 32	0 59	16 22	0 18	16 18	0 34	22 22	0 1	6 16	0 41	9 39	0 43	22 3	0 25	2 9	1 54	2 54	15 51	2 44		
F 9	5 49	10 27	2 22	1 26	1 41	8 2	0 58	16 35	0 19	16 15	0 34	22 22	0 1	6 15	0 41	9 39	0 43	22 3	0 25	2 9	1 53	2 58	15 51	2 44		
S 10	6 11	3 26	1 4	2 12	1 37	8 31	0 56	16 48	0 20	16 12	0 34	22 22	0 1	6 14	0 41	9 38	0 44	22 3	0 25	2 9	1 52	3 1	15 50	2 44		
S 11	6 34	3s51	0s20	2 57	1 33	9 0	0 54	17 0	0 20	16 10	0 34	22 21	0 1	6 13	0 41	9 37	0 44	22 3	0 25	2 9	1 50	3 5	15 49	2 45		
M12	6 57	10 57	1 42	3 43	1 28	9 29	0 52	17 13	0 21	16 7	0 35	22 21	0 1	6 12	0 41	9 37	0 44	22 3	0 25	2 9	1 49	3 8	15 48	2 45		
T 13	7 20	17 22	2 57	4 28	1 23	9 58	0 50	17 25	0 21	16 4	0 35	22 21	0 1	6 11	0 41	9 36	0 44	22 3	0 25	2 8	1 48	3 12	15 48	2 45		
W14	7 42	22 38	3 58	5 13	1 17	10 26	0 48	17 38	0 22	16 2	0 35	22 21	0 1	6 10	0 41	9 36	0 44	22 3	0 25	2 8	1 47	3 15	15 47	2 45		
T 15	8 5	26 22	4 42	5 58	1 12	10 54	0 46	17 50	0 23	15 59	0 35	22 21	0 1	6 9	0 41	9 35	0 44	22 3	0 25	2 7	1 45	3 19	15 46	2 45		
F 16	8 27	28 22	5 8	6 42	1 6	11 22	0 44	18 2	0 23	15 56	0 35	22 21	0 1	6 8	0 41	9 34	0 44	22 3	0 25	2 6	1 44	3 22	15 45	2 46		
S 17	8 49	28 35	5 16	7 27	1 0	11 50	0 42	18 14	0 24	15 54	0 35	22 20	0 1	6 7	0 41	9 34	0 44	22 3	0 25	2 6	1 43	3 25	15 44	2 46		
S 18	9 11	27 10	5 7	8 10	0 54	12 17	0 40	18 26	0 24	15 51	0 36	22 20	0 1	6 6	0 41	9 33	0 44	22 3	0 25	2 5	1 42	3 29	15 43	2 46		
M19	9 33	24 23	4 43	8 53	0 48	12 44	0 38	18 37	0 25	15 49	0 36	22 20	0 0	6 5	0 41	9 33	0 44	22 3	0 26	2 5	1 40	3 32	15 43	2 46		
T 20	9 55	20 32	4 7	9 36	0 41	13 11	0 36	18 49	0 26	15 46	0 36	22 20	0 0	6 5	0 41	9 32	0 44	22 3	0 26	2 6	1 39	3 36	15 42	2 46		
W21	10 17	15 54	3 20	10 18	0 35	13 37	0 34	19 0	0 26	15 44	0 36	22 19	0 0	6 4	0 41	9 31	0 44	22 3	0 26	2 6	1 38	3 39	15 41	2 47		
T 22	10 38	10 45	2 25	10 59	0 28	14 4	0 32	19 12	0 27	15 41	0 36	22 19	0 0	6 3	0 41	9 31	0 44	22 3	0 26	2 7	1 36	3 43	15 40	2 47		
F 23	10 59	5 15	1 24	11 40	0 22	14 29	0 29	19 23	0 27	15 39	0 37	22 19	0 0	6 2	0 40	9 30	0 44	22 3	0 26	2 8	1 35	3 46	15 39	2 47		
S 24	11 21	0n25	0 20	12 20	0 15	14 55	0 27	19 33	0 28	15 37	0 37	22 18	0 0	6 1	0 40	9 30	0 44	22 3	0 26	2 8	1 34	3 49	15 38	2 47		
S 25	11 42	6 3	0n45	12 59	0 8	15 20	0 25	19 44	0 29	15 34	0 37	22 18	0s 0	6 0	0 40	9 29	0 44	22 3	0 26	2 8	1 33	3 53	15 37	2 47		
M26	12 2	11 31	1 48	13 38	0 1	15 44	0 22	19 55	0 29	15 32	0 37	22 18	0 0	5 59	0 40	9 29	0 44	22 3	0 26	2 7	1 31	3 56	15 37	2 47		
T 27	12 23	16 36	2 47	14 16	0s 5	16 9	0 20	20 5	0 30	15 30	0 37	22 17	0 0	5 58	0 40	9 28	0 44	22 3	0 26	2 6	1 30	4 0	15 36	2 47		
W28	12 43	21 6	3 39	14 53	0 12	16 33	0 18	20 15	0 30	15 28	0 38	22 17	0 0	5 57	0 40	9 28	0 44	22 3	0 26	2 4	1 29	4 3	15 35	2 48		
T 29	13 4	24 45	4 21	15 30	0 19	16 56	0 15	20 25	0 31	15 26	0 38	22 17	0 0	5 57	0 40	9 27	0 44	22 4	0 26	2 2	1 28	4 7	15 34	2 48		
F 30	13 24	27 19	4 52	16 5	0 26	17 19	0 13	20 35	0 31	15 24	0 38	22 16	0 0	5 56	0 40	9 27	0 44	22 4	0 26	2 0	1 26	4 10	15 33	2 48		
S 31	13s44	28n33	5n 9	16s40	0s32	17s41	0n10	20s45	0s32	15n22	0n38	22s16	0s 1	5n55	0s40	9n26	0n44	22n 4	0n26	1n58	1n25	4n13	15n32	2s48		

# ASTRODIENST EPHEMERIS for the year 1931

## geocentric

NOVEMBER 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 37 17	7 <sup>m</sup> 36'00	9 <sup>h</sup> 23	15 <sup>m</sup> 55	21 <sup>m</sup> 39	1 <sup>h</sup> 3 3	20 <sup>h</sup> 19	17 <sup>h</sup> 57	16 <sup>h</sup> R35	7 <sup>h</sup> 32	22 <sup>h</sup> R 9	4 <sup>h</sup> R54	3 <sup>h</sup> Y31	9 <sup>h</sup> Y33	21 <sup>h</sup> R49	S 1
M 2	2 41 13	8°36'02	22°27	17°29	22°54	1°47	20°26	18° 1	16 <sup>h</sup> Y33	7°33	22 <sup>h</sup> 9	4 <sup>h</sup> Y51	3°28	9°39	21 <sup>h</sup> 846	M 2
T 3	2 45 10	9°36'06	5 <sup>h</sup> 27	19° 2	24° 9	2°30	20°33	18° 5	16°31	7°35	22° 9	4°D50	3°24	9°46	21°43	T 3
W 4	2 49 6	10°36'13	19°27	20°35	25°24	3°13	20°39	18° 9	16°28	7°36	22° 9	4°50	3°21	9°53	21°40	W 4
T 5	2 53 3	11°36'21	3 <sup>h</sup> 27	22° 7	26°39	3°57	20°45	18°13	16°26	7°37	22° 8	4°51	3°18	9°59	21°37	T 5
F 6	2 56 59	12°36'32	17°48	23°39	27°53	4°40	20°52	18°17	16°24	7°38	22° 8	4°52	3°15	10° 6	21°34	F 6
S 7	3 0 56	13°36'45	2 <sup>h</sup> 26	25°11	29° 8	5°24	20°58	18°21	16°22	7°39	22° 8	4°R53	3°12	10°12	21°31	S 7
S 8	3 4 53	14°36'59	17°18	26°42	0 <sup>h</sup> 23	6° 7	21° 3	18°25	16°20	7°41	22° 7	4°53	3° 9	10°19	21°28	S 8
M 9	3 8 49	15°37'16	2 <sup>h</sup> 17	28°13	1°38	6°51	21° 9	18°30	16°18	7°42	22° 7	4°50	3° 5	10°26	21°25	M 9
T 10	3 12 46	16°37'34	17°15	29°43	2°53	7°35	21°15	18°34	16°16	7°43	22° 6	4°46	3° 2	10°32	21°22	T 10
W11	3 16 42	17°37'55	2 <sup>h</sup> 3 3	1 <sup>h</sup> 13	4° 8	8°19	21°20	18°39	16°14	7°44	22° 6	4°40	2°59	10°39	21°19	W11
T 12	3 20 39	18°38'17	16°33	2°43	5°23	9° 3	21°25	18°43	16°12	7°45	22° 6	4°32	2°56	10°46	21°16	T 12
F 13	3 24 35	19°38'40	0 <sup>h</sup> 33	4°12	6°38	9°46	21°30	18°48	16°10	7°46	22° 5	4°25	2°53	10°52	21°12	F 13
S 14	3 28 32	20°39'05	14°18	5°41	7°53	10°30	21°35	18°53	16° 8	7°47	22° 5	4°19	2°50	10°59	21° 9	S 14
S 15	3 32 28	21°39'32	27°29	7°10	9° 8	11°14	21°40	18°58	16° 6	7°48	22° 4	4°14	2°46	11° 6	21° 6	S 15
M16	3 36 25	22°39'59	10 <sup>h</sup> 15	8°38	10°23	11°59	21°44	19° 2	16° 4	7°48	22° 4	4°11	2°43	11°12	21° 3	M16
T 17	3 40 22	23°40'28	22°38	10° 5	11°38	12°43	21°49	19° 7	16° 3	7°49	22° 3	4°D10	2°40	11°19	21° 0	T 17
W18	3 44 18	24°40'58	4 <sup>h</sup> 15	11°32	12°52	13°27	21°53	19°12	16° 1	7°50	22° 2	4°11	2°37	11°26	20°57	W18
T 19	3 48 15	25°41'30	16°39	12°59	14° 7	14°11	21°57	19°18	15°59	7°51	22° 2	4°12	2°34	11°32	20°54	T 19
F 20	3 52 11	26°42'03	28°28	14°24	15°22	14°56	22° 1	19°23	15°58	7°52	22° 1	4°R13	2°30	11°39	20°50	F 20
S 21	3 56 8	27°42'37	10 <sup>h</sup> Y14	15°49	16°37	15°40	22° 4	19°28	15°56	7°52	22° 1	4°13	2°27	11°46	20°47	S 21
S 22	4 0 4	28°43'12	22° 4	17°14	17°52	16°24	22° 8	19°33	15°54	7°53	22° 0	4°11	2°24	11°52	20°44	S 22
M23	4 4 1	29°43'48	4 <sup>h</sup> 0	18°37	19° 7	17° 9	22°11	19°39	15°53	7°54	21°59	4° 7	2°21	11°59	20°41	M23
T 24	4 7 57	0 <sup>h</sup> 44'26	16° 5	19°59	20°22	17°54	22°14	19°44	15°51	7°54	21°58	4° 0	2°18	12° 5	20°38	T 24
W25	4 11 54	1°45'06	28°21	21°20	21°36	18°38	22°17	19°49	15°50	7°55	21°58	3°51	2°15	12°12	20°35	W25
T 26	4 15 51	2°45'46	10 <sup>h</sup> II49	22°40	22°51	19°23	22°20	19°55	15°48	7°55	21°57	3°40	2°11	12°19	20°32	T 26
F 27	4 19 47	3°46'29	23°30	23°59	24° 6	20° 8	22°22	20° 1	15°47	7°56	21°56	3°28	2° 8	12°25	20°29	F 27
S 28	4 23 44	4°47'12	6 <sup>h</sup> 23	25°16	25°21	20°52	22°25	20° 6	15°46	7°56	21°55	3°17	2° 5	12°32	20°26	S 28
S 29	4 27 40	5°47'57	19°28	26°30	26°36	21°37	22°27	20°12	15°44	7°57	21°55	3° 8	2° 2	12°39	20°23	S 29
M30	4 31 37	6 <sup>h</sup> 48'43	2 <sup>h</sup> 24	27 <sup>h</sup> 43	27 <sup>h</sup> 51	22 <sup>h</sup> 22	22 <sup>h</sup> 29	20 <sup>h</sup> 18	15 <sup>h</sup> Y43	7 <sup>h</sup> 57	21 <sup>h</sup> 54	3 <sup>h</sup> Y 1	1 <sup>h</sup> Y59	12 <sup>h</sup> Y45	20 <sup>h</sup> 820	M30

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
S 1	14s 3	28n18	5n11	17s14	0s39	18s 4	0n 8	20s55	0s32	15n20	0n38	22s15	0s 1	5n54	0s40	9n26	0n44	22n 4	0n27	1n57	1n24	4n17	15n31	2s48
M 2	14 23	26 28	4 58	17 47	0 45	18 25	0 5	21 4	0 33	15 18	0 39	22 15	0 1	5 53	0 40	9 25	0 44	22 4	0 27	1 56	1 23	4 20	15 30	2 48
T 3	14 42	23 10	4 28	18 19	0 52	18 46	0 3	21 13	0 34	15 16	0 39	22 14	0 1	5 52	0 40	9 25	0 44	22 4	0 27	1 55	1 21	4 24	15 29	2 48
W 4	15 1	18 31	3 43	18 50	0 58	19 7	0 0	21 22	0 34	15 14	0 39	22 14	0 1	5 52	0 40	9 24	0 44	22 4	0 27	1 55	1 20	4 27	15 29	2 49
T 5	15 19	12 46	2 43	19 21	1 5	19 27	0s 2	21 31	0 35	15 12	0 39	22 14	0 1	5 51	0 40	9 24	0 44	22 4	0 27	1 56	1 19	4 31	15 28	2 49
F 6	15 38	6 14	1 32	19 50	1 11	19 46	0 5	21 40	0 35	15 10	0 39	22 13	0 1	5 50	0 40	9 24	0 44	22 4	0 27	1 56	1 18	4 34	15 27	2 49
S 7	15 56	0s46	0 13	20 19	1 17	20 5	0 7	21 48	0 36	15 9	0 40	22 13	0 1	5 49	0 40	9 23	0 44	22 5	0 27	1 57	1 16	4 37	15 26	2 49
S 8	16 14	7 50	1s 7	20 46	1 23	20 24	0 10	21 56	0 36	15 7	0 40	22 12	0 1	5 48	0 40	9 23	0 44	22 5	0 27	1 56	1 15	4 41	15 25	2 49
M 9	16 32	14 31	2 23	21 12	1 28	20 42	0 12	22 4	0 37	15 5	0 40	22 12	0 1	5 48	0 40	9 22	0 44	22 5	0 27	1 55	1 14	4 44	15 24	2 49
T 10	16 49	20 20	3 29	21 38	1 34	20 59	0 15	22 12	0 37	15 4	0 40	22 11	0 1	5 47	0 40	9 22	0 44	22 5	0 27	1 54	1 13	4 48	15 23	2 49
W11	17 6	24 50	4 21	22 2	1 39	21 16	0 17	22 19	0 38	15 2	0 40	22 10	0 1	5 46	0 40	9 22	0 44	22 5	0 27	1 51	1 11	4 51	15 22	2 49
T 12	17 23	27 39	4 54	22 25	1 45	21 32	0 20	22 27	0 38	15 1	0 41	22 10	0 1	5 45	0 40	9 21	0 44	22 5	0 27	1 48	1 10	4 54	15 21	2 50
F 13	17 39	28 35	5 8	22 48	1 50	21 48	0 22	22 34	0 39	14 59	0 41	22 9	0 1	5 45	0 40	9 21	0 45	22 5	0 27	1 45	1 9	4 58	15 20	2 50
S 14	17 55	27 43	5 4	23 9	1 55	22 2	0 25	22 41	0 39	14 58	0 41	22 9	0 2	5 44	0 40	9 21	0 45	22 6	0 27	1 43	1 7	5 1	15 19	2 50
S 15	18 11	25 19	4 44	23 28	1 59	22 17	0 27	22 48	0 40	14 57	0 41	22 8	0 2	5 43	0 40	9 20	0 45	22 6	0 28	1 41	1 6	5 5	15 19	2 50
M16	18 27	21 42	4 10	23 47	2 3	22 30	0 30	22 54	0 40	14 55	0 42	22 8	0 2	5 43	0 40	9 20	0 45	22 6	0 28	1 40	1 5	5 8	15 18	2 50
T 17	18 42	17 12	3 25	24 4	2 7	22 43	0 32	23 0	0 41	14 54	0 42	22 7	0 2	5 42	0 40	9 20	0 45	22 6	0 28	1 39	1 4	5 12	15 17	2 50
W18	18 57	12 8	2 32	24 21	2 11	22 56	0 35	23 7	0 41	14 53	0 42	22 6	0 2	5 41	0 40	9 20	0 45	22 6	0 28	1 40	1 2	5 15	15 16	2 50
T 19	19 11	6 42	1 33	24 36	2 15	23 7	0 37	23 12	0 42	14 52	0 42	22 6	0 2	5 41	0 40	9 19	0 45	22 6	0 28	1 40	1 1	5 18	15 15	2 50
F 20	19 26	1 5	0 31	24 49	2 18	23 18	0 40	23 18	0 42	14 51	0 42	22 5	0 2	5 40	0 40	9 19	0 45	22 7	0 28	1 41	1 0	5 22	15 14	2 50
S 21	19 40	4n33	0n32	25 2	2 21	23 28	0 42	23 23	0 43	14 50	0 43	22 4	0 2	5 39	0 40	9 19	0 45	22 7	0 28	1 41	0 59	5 25	15 13	2 50
S 22	19 53	10 3	1 34	25 13	2 23	23 38	0 44	23 28	0 43	14 49	0 43	22 4	0 2	5 39	0 40	9 19	0 45	22 7	0 28	1 40	0 57	5 29	15 12	2 50
M23	20 6	15 15	2 33	25 22	2 25	23 47	0 47	23 33	0 44	14 48	0 43	22 3	0 2	5 38	0 40	9 18	0 45	22 7	0 28	1 38	0 56	5 32	15 12	2 50
T 24	20 19	19 55	3 25	25 31	2 27	23 55	0 49	23 38	0 44	14 47	0 43	22 2	0 2	5 38	0 40	9 18	0 45	22 7	0 28	1 35	0 55	5 35	15 11	2 50
W25	20 31	23 50	4 8	25 38	2 28	24 2	0 51	23 42	0 45	14 47	0 44	22 1	0 2	5 37	0 40	9 18	0 45	22 7	0 28	1 32	0 54	5 39	15 10	2 51
T 26	20 43	26 42	4 40	25 43	2 28	24 9	0 54	23 47	0 45	14 46	0 44	22 1	0 2	5 37	0 40	9 18	0 45	22 8	0 28	1 27	0 52	5 42	15 9	2 51
F 27	20 55	28 16	4 59	25 47	2 29	24 15	0 56	23 50	0 46	14 45	0 44	22 0	0 2	5 36	0 40	9 18	0 45	22 8	0 28	1 23	0 51	5 46	15 8	2 51
S 28	21 6	28 21	5 3	25 50	2 28	24 20	0 58	23 54	0 46	14 45	0 44	21 59	0 3	5 36	0 40	9 18	0 45	22 8	0 29	1 19	0 50	5 49	15 7	2 51
S 29	21 17	26 51	4 52	25 51	2 27	24 25	1 0	23 58	0 46	14 44	0 45	21 58	0 3	5 35	0 40	9 17	0 45	22 8	0 29	1 15	0 49	5 52	15 6	2 51
M30	21s27	23n51	4n24	25s51	2s25	24s28	1s 2	24s 1	0s47	14n44	0n45	21s58	0s 3	5n35	0s40	9n17	0n45	22n 8	0n29	1n12	0n47	5n56	15n 6	2s51

# ASTRODIENST EPHEMERIS for the year 1931

## geocentric

DECEMBER 1931

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 35 33	7♂49'31	16♂11	28♂53	29♂5	23♂7	22♂31	20♂24	15♂R42	7♂57	21♂R53	2♂R56	1♂Y56	12♂Y52	20♂R17	T 1
W 2	4 39 30	8°50'21	29°51	0♂0	0♂20	23°52	22°32	20°29	15♂Y40	7°58	21♂52	2♂Y54	1°52	12°59	20♂R14	W 2
T 3	4 43 26	9°51'11	13♂43	1°4	1°35	24°37	22°34	20°35	15°39	7°58	21°51	2♂D54	1°49	13°5	20°11	T 3
F 4	4 47 23	10°52'03	27°47	2°4	2°50	25°22	22°35	20°41	15°38	7°58	21°50	2♂R54	1°46	13°12	20°8	F 4
S 5	4 51 20	11°52'57	12♂4	2°59	4°5	26°7	22°36	20°47	15°37	7°59	21°49	2°54	1°43	13°19	20°5	S 5
S 6	4 55 16	12°53'52	26°32	3°50	5°20	26°53	22°37	20°53	15°36	7°59	21°48	2°52	1°40	13°25	20°2	S 6
M 7	4 59 13	13°54'48	11♂7	4°34	6°34	27°38	22°38	21°0	15°35	7°59	21°47	2°47	1°36	13°32	20°0	M 7
T 8	5 3 9	14°55'45	25°43	5°13	7°49	28°23	22°38	21°6	15°34	7°59	21°46	2°39	1°33	13°39	19°57	T 8
W 9	5 7 6	15°56'44	10♂14	5°44	9°4	29°9	22°38	21°12	15°33	7°59	21°45	2°29	1°30	13°45	19°54	W 9
T 10	5 11 2	16°57'44	24°32	6°6	10°19	29°54	22°R38	21°18	15°33	7°59	21°44	2°17	1°27	13°52	19°51	T 10
F 11	5 14 59	17°58'44	8♂32	6°20	11°33	0♂39	22°38	21°25	15°32	7♂R59	21°43	2°5	1°24	13°58	19°49	F 11
S 12	5 18 56	18°59'45	22°10	6♂R24	12°48	1°25	22°38	21°31	15°31	7°59	21°42	1°54	1°21	14°5	19°46	S 12
S 13	5 22 52	20°0'47	5♂22	6°17	14°3	2°11	22°37	21°37	15°30	7°59	21°41	1°44	1°17	14°12	19°43	S 13
M14	5 26 49	21°1'49	18°10	6°0	15°18	2°56	22°36	21°44	15°30	7°59	21°40	1°38	1°14	14°18	19°41	M14
T 15	5 30 45	22°2'52	0♂36	5°30	16°32	3°42	22°35	21°50	15°29	7°59	21°39	1°34	1°11	14°25	19°38	T 15
W16	5 34 42	23°3'55	12°44	4°49	17°47	4°28	22°34	21°57	15°29	7°59	21°38	1°32	1°8	14°32	19°36	W16
T 17	5 38 38	24°4'59	24°40	3°57	19°2	5°13	22°33	22°3	15°28	7°59	21°37	1°31	1°5	14°38	19°33	T 17
F 18	5 42 35	25°6'03	6♂Y29	2°55	20°17	5°59	22°31	22°10	15°28	7°58	21°36	1°31	1°2	14°45	19°31	F 18
S 19	5 46 31	26°7'07	18°16	1°44	21°31	6°45	22°30	22°17	15°27	7°58	21°35	1°31	0°58	14°52	19°29	S 19
S 20	5 50 28	27°8'12	0♂7	0°27	22°46	7°31	22°28	22°23	15°27	7°58	21°33	1°28	0°55	14°58	19°26	S 20
M21	5 54 25	28°9'17	12°7	29♂5	24°0	8°17	22°26	22°30	15°27	7°58	21°32	1°22	0°52	15°5	19°24	M21
T 22	5 58 21	29°10'23	24°20	27°43	25°15	9°3	22°23	22°37	15°27	7°57	21°31	1°14	0°49	15°12	19°22	T 22
W23	6 2 18	0♂11'29	6♂II47	26°21	26°30	9°49	22°21	22°43	15°27	7°57	21°30	1°3	0°46	15°18	19°20	W23
T 24	6 6 14	1°12'35	19°32	25°4	27°44	10°35	22°18	22°50	15°26	7°56	21°29	0°50	0°42	15°25	19°17	T 24
F 25	6 10 11	2°13'41	2♂32	23°53	28°59	11°21	22°15	22°57	15°26	7°56	21°28	0°36	0°39	15°32	19°15	F 25
S 26	6 14 7	3°14'48	15°48	22°50	0♂13	12°7	22°12	23°4	15°D26	7°56	21°26	0°23	0°36	15°38	19°13	S 26
S 27	6 18 4	4°15'56	29°17	21°57	1°28	12°53	22°9	23°11	15°26	7°55	21°25	0°11	0°33	15°45	19°11	S 27
M28	6 22 0	5°17'03	12♂56	21°14	2°42	13°40	22°6	23°18	15°26	7°54	21°24	0°2	0°30	15°52	19°9	M28
T 29	6 25 57	6°18'11	26°43	20°42	3°57	14°26	22°2	23°24	15°27	7°54	21°23	29♂56	0°27	15°58	19°7	T 29
W30	6 29 54	7°19'20	10♂37	20°20	5°11	15°12	21°58	23°31	15°27	7°53	21°21	29°52	0°23	16°5	19°6	W30
T 31	6 33 50	8♂20'28	24♂35	20♂8	6♂26	15♂59	21♂54	23♂38	15♂Y27	7♂53	21♂20	29♂51	0♂Y20	16♂Y11	19♂4	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s37	19n31	3n42	25s49	2s23	24s31	1s5	24s4	0s47	14n44	0n45	21s57	0s3	5n34	0s40	9n17
W 2	21 47	14 8	2 46	25 46	2 19	24 34	1 7	24 6	0 48	14 43	0 45	21 56	0 3	5 34	0 40	9 17
T 3	21 56	7 57	1 40	25 42	2 15	24 35	1 9	24 9	0 48	14 43	0 46	21 55	0 3	5 33	0 39	9 17
F 4	22 5	1 18	0 27	25 36	2 10	24 36	1 11	24 11	0 49	14 43	0 46	21 54	0 3	5 33	0 39	9 17
S 5	22 13	5s31	0s49	25 29	2 4	24 36	1 13	24 13	0 49	14 43	0 46	21 54	0 3	5 33	0 39	9 17
S 6	22 21	12 8	2 2	25 21	1 57	24 35	1 14	24 14	0 49	14 43	0 46	21 53	0 3	5 32	0 39	9 17
M 7	22 29	18 9	3 8	25 11	1 49	24 33	1 16	24 16	0 50	14 43	0 46	21 52	0 3	5 32	0 39	9 17
T 8	22 36	23 6	4 2	25 0	1 39	24 31	1 18	24 17	0 50	14 43	0 47	21 51	0 3	5 32	0 39	9 17
W 9	22 43	26 36	4 39	24 48	1 28	24 28	1 20	24 18	0 51	14 43	0 47	21 50	0 3	5 31	0 39	9 17
T 10	22 49	28 18	4 58	24 35	1 16	24 24	1 22	24 18	0 51	14 43	0 47	21 49	0 3	5 31	0 39	9 17
F 11	22 54	28 9	4 59	24 21	1 3	24 20	1 23	24 18	0 52	14 43	0 47	21 48	0 3	5 31	0 39	9 17
S 12	23 0	26 17	4 43	24 6	0 48	24 15	1 25	24 18	0 52	14 44	0 48	21 47	0 4	5 31	0 39	9 17
S 13	23 4	23 0	4 12	23 50	0 32	24 9	1 26	24 18	0 52	14 44	0 48	21 46	0 4	5 30	0 39	9 17
M14	23 9	18 42	3 28	23 34	0 15	24 2	1 28	24 18	0 53	14 45	0 48	21 45	0 4	5 30	0 39	9 17
T 15	23 13	13 42	2 36	23 17	0n3	23 54	1 29	24 17	0 53	14 45	0 48	21 44	0 4	5 30	0 39	9 17
W16	23 16	8 17	1 38	22 59	0 23	23 46	1 31	24 16	0 53	14 46	0 49	21 43	0 4	5 30	0 39	9 17
T 17	23 19	2 41	0 36	22 41	0 43	23 37	1 32	24 15	0 54	14 46	0 49	21 42	0 4	5 30	0 39	9 17
F 18	23 22	2n58	0n26	22 22	1 3	23 27	1 33	24 13	0 54	14 47	0 49	21 41	0 4	5 30	0 39	9 17
S 19	23 24	8 31	1 27	22 4	1 23	23 17	1 35	24 11	0 54	14 48	0 49	21 40	0 4	5 29	0 39	9 18
S 20	23 25	13 47	2 25	21 45	1 42	23 6	1 36	24 9	0 55	14 49	0 50	21 39	0 4	5 29	0 39	9 18
M21	23 26	18 36	3 17	21 27	2 0	22 54	1 37	24 7	0 55	14 50	0 50	21 38	0 4	5 29	0 39	9 18
T 22	23 27	22 45	4 1	21 10	2 16	22 42	1 38	24 4	0 56	14 51	0 50	21 37	0 4	5 29	0 39	9 18
W23	23 27	25 57	4 34	20 54	2 30	22 29	1 39	24 1	0 56	14 52	0 50	21 36	0 4	5 29	0 39	9 18
T 24	23 27	27 55	4 54	20 39	2 42	22 15	1 40	23 58	0 56	14 53	0 51	21 35	0 4	5 29	0 39	9 18
F 25	23 26	28 25	5 0	20 27	2 52	22 1	1 40	23 54	0 56	14 54	0 51	21 34	0 4	5 29	0 39	9 19
S 26	23 25	27 18	4 49	20 17	2 59	21 46	1 41	23 50	0 57	14 55	0 51	21 33	0 5	5 29	0 39	9 19
S 27	23 23	24 35	4 23	20 9	3 3	21 30	1 42	23 46	0 57	14 57	0 51	21 32	0 5	5 29	0 39	9 19
M28	23 21	20 28	3 41	20 4	3 6	21 14	1 42	23 42	0 57	14 58	0 52	21 31	0 5	5 29	0 39	9 19
T 29	23 18	15 12	2 45	20 1	3 6	20 57	1 43	23 38	0 58	14 59	0 52	21 30	0 5	5 29	0 39	9 19
W30	23 15	9 8	1 40	20 1	3 5	20 39	1 43	23 33	0 58	15 1	0 52	21 29	0 5	5 30	0 39	9 20
T 31	23s11	2n35	0n28	20s3	3n2	20s21	1s44	23s28	0s58	15n2	0n52	21s28	0s5	5n30	0s38	9n20

Julian Day Number = 2426676.5, Delta T = 24.38 sec  
 Ecliptic obliquity = 23°27'02, Nutation = - 0°00'01, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 23°47'22, Lahiri = 22°54'22