



Astrodienst Ephemeris Tables for the year 1863

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 1863

geocentric

JANUARY 1863

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 40 36	10°38'13"	25°52'21"	15°38'31"	15°38'11"	22°51'51"	24°49'49"	5°21'21"	17°48'48"	1°11'11"	9°31'31"	16°32'32"	14°47'47"	28°49'49"	3°45'45"	T 1
F 2	6 44 33	11° 9'21"	7°12'12"	17° 9' 9"	16°27'27"	23°20'20"	24°56'56"	5°23'23"	17°45'45"	1°11'11"	9°30'30"	16° 3' 3"	14°44'44"	28°56'56"	3° 8' 8"	F 2
S 3	6 48 29	12°10'30"	19° 0' 0"	18°47'47"	17°42'42"	23°48'48"	25° 3' 3"	5°24'24"	17°43'43"	1°12'12"	9°30'30"	16°R 4'	14°40'40"	29° 2' 2"	3°11'11"	S 3
S 4	6 52 26	13°11'38"	0°54'47"	20°26'26"	18°58'58"	24°17'17"	25° 9' 9"	5°25'25"	17°41'41"	1°13'13"	9°29'29"	16° 3' 3"	14°37'37"	29° 9' 9"	3°14'14"	S 4
M 5	6 56 22	14°12'46"	12°37'37"	22° 5' 5"	20°13'13"	24°46'46"	25°16'16"	5°26'26"	17°39'39"	1°14'14"	9°29'29"	16° 0' 0"	14°34'34"	29°16'16"	3°17'17"	M 5
T 6	7 0 19	15°13'54"	24°31'31"	23°44'44"	21°29'29"	25°16'16"	25°22'22"	5°28'28"	17°36'36"	1°14'14"	9°29'29"	15°56'56"	14°31'31"	29°22'22"	3°20'20"	T 6
W 7	7 4 15	16°15'02"	6°02'31"	25°23'23"	22°44'44"	25°45'45"	25°29'29"	5°28'28"	17°34'34"	1°15'15"	9°28'28"	15°51'51"	14°28'28"	29°29'29"	3°23'23"	W 7
T 8	7 8 12	17°16'10"	18°38'38"	27° 3' 3"	23°59'59"	26°15'15"	25°35'35"	5°29'29"	17°32'32"	1°16'16"	9°28'28"	15°45'45"	14°25'25"	29°36'36"	3°26'26"	T 8
F 9	7 12 8	18°17'18"	0°18'55"	28°42'42"	25°15'15"	26°45'45"	25°41'41"	5°30'30"	17°30'30"	1°17'17"	9°28'28"	15°39'39"	14°21'21"	29°42'42"	3°29'29"	F 9
S 10	7 16 5	19°18'25"	13°23'23"	0°22'22"	26°30'30"	27°15'15"	25°47'47"	5°31'31"	17°28'28"	1°18'18"	9°27'27"	15°34'34"	14°18'18"	29°49'49"	3°32'32"	S 10
S 11	7 20 2	20°19'32"	26° 5' 5"	2° 1' 1"	27°46'46"	27°45'45"	25°52'52"	5°31'31"	17°26'26"	1°19'19"	9°27'27"	15°30'30"	14°15'15"	29°56'56"	3°35'35"	S 11
M 12	7 23 58	21°20'40"	9°22'22"	3°41'41"	29° 1' 1"	28°16'16"	25°58'58"	5°31'31"	17°24'24"	1°20'20"	9°27'27"	15°28'28"	14°12'12"	0°52'52"	3°38'38"	M 12
T 13	7 27 55	22°21'47"	22°18'18"	5°19'19"	0°22'22"	28°46'46"	26° 3' 3"	5°32'32"	17°22'22"	1°21'21"	9°27'27"	15°D 27'	14° 9' 9"	0° 9' 9"	3°41'41"	T 13
W 14	7 31 51	23°22'54"	5°18'55"	6°58'58"	1°32'32"	29°17'17"	26° 8' 8"	5°32'32"	17°20'20"	1°22'22"	9°26'26"	15°27'27"	14° 6' 6"	0°16'16"	3°44'44"	W 14
T 15	7 35 48	24°24'01"	19°55'55"	8°36'36"	2°47'47"	29°48'48"	26°13'13"	5°R 32'	17°18'18"	1°23'23"	9°26'26"	15°29'29"	14° 2' 2"	0°22'22"	3°48'48"	T 15
F 16	7 39 44	25°25'08"	4°17'17"	10°12'12"	4° 3' 3"	0°18'18"	26°18'18"	5°32'32"	17°16'16"	1°24'24"	9°26'26"	15°30'30"	13°59'59"	0°29'29"	3°51'51"	F 16
S 17	7 43 41	26°26'14"	18°59'59"	11°48'48"	5°18'18"	0°50'50"	26°23'23"	5°32'32"	17°14'14"	1°25'25"	9°26'26"	15°R 30'	13°56'56"	0°36'36"	3°54'54"	S 17
S 18	7 47 38	27°27'20"	3°35'57"	13°22'22"	6°33'33"	1°22'22"	26°27'27"	5°31'31"	17°13'13"	1°27'27"	9°26'26"	15°29'29"	13°53'53"	0°42'42"	3°58'58"	S 18
M 19	7 51 34	28°28'26"	19° 4' 4"	14°54'54"	7°49'49"	1°53'53"	26°31'31"	5°31'31"	17°11'11"	1°28'28"	9°26'26"	15°26'26"	13°50'50"	0°49'49"	4° 1' 1"	M 19
T 20	7 55 31	29°29'31"	4° 9' 9"	16°24'24"	9° 4' 4"	2°25'25"	26°36'36"	5°30'30"	17° 9' 9"	1°29'29"	9°25'25"	15°20'20"	13°46'46"	0°56'56"	4° 5' 5"	T 20
W 21	7 59 27	0°23'30"	17°51'51"	10°19'19"	2°57'57"	26°40'40"	5°30'30"	5°30'30"	17° 7' 7"	1°30'30"	9°25'25"	15°13'13"	13°43'43"	1° 2' 2"	4° 8' 8"	W 21
T 22	8 3 24	1°31'39"	3°40'40"	19°15'15"	11°35'35"	3°29'29"	26°43'43"	5°29'29"	17° 6' 6"	1°32'32"	9°25'25"	15° 5' 5"	13°40'40"	1° 9' 9"	4°11'11"	T 22
F 23	8 7 20	2°32'41"	17°51'51"	20°35'35"	12°50'50"	4° 1' 1"	26°47'47"	5°28'28"	17° 4' 4"	1°33'33"	9°25'25"	14°58'58"	13°37'37"	1°15'15"	4°15'15"	F 23
S 24	8 11 17	3°33'42"	1°33'33"	21°50'50"	14° 5' 5"	4°34'34"	26°51'51"	5°27'27"	17° 3' 3"	1°35'35"	9°D 25'	14°52'52"	13°34'34"	1°22'22"	4°19'19"	S 24
S 25	8 15 13	4°34'42"	14°46'46"	23° 0' 0"	15°20'20"	5° 6' 6"	26°54'54"	5°26'26"	17° 1' 1"	1°36'36"	9°25'25"	14°48'48"	13°31'31"	1°29'29"	4°22'22"	S 25
M 26	8 19 10	5°35'42"	27°33'33"	24° 3' 3"	16°36'36"	5°39'39"	26°57'57"	5°25'25"	17° 0' 0"	1°37'37"	9°25'25"	14°46'46"	13°27'27"	1°35'35"	4°26'26"	M 26
T 27	8 23 6	6°36'39"	9°58'57"	25° 0' 0"	17°51'51"	6°12'12"	27° 0' 0"	5°24'24"	16°58'58"	1°39'39"	9°25'25"	14°D 45'	13°24'24"	1°42'42"	4°29'29"	T 27
W 28	8 27 3	7°37'36"	22° 4' 4"	25°49'49"	19° 6' 6"	6°44'44"	27° 3' 3"	5°23'23"	16°57'57"	1°40'40"	9°26'26"	14°46'46"	13°21'21"	1°49'49"	4°33'33"	W 28
T 29	8 31 0	8°38'32"	3°15'57"	26°29'29"	20°21'21"	7°17'17"	27° 5' 5"	5°21'21"	16°56'56"	1°42'42"	9°26'26"	14°47'47"	13°18'18"	1°55'55"	4°37'37"	T 29
F 30	8 34 56	9°39'26"	15°47'47"	27° 1' 1"	21°36'36"	7°50'50"	27° 8' 8"	5°20'20"	16°54'54"	1°43'43"	9°26'26"	14°R 48'	13°15'15"	2° 2' 2"	4°40'40"	F 30
S 31	8 38 53	10°40'19"	27°12'33"	27°22'22"	22°52'52"	8°23'23"	27°10'10"	5°18'18"	16°53'53"	1°45'45"	9°26'26"	14°47'47"	13°12'12"	2° 9' 9"	4°44'44"	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	lat
T 1	23s 4	20n55	1n52	24s36	2s 3	23s27	0s52	9n33	0n42	8s26	1n16	0n 0	2n19	22n58	0n 5	0s50	1s25	0s39	16s 7	22s43	22s35	22n12	5s20	5n25
F 2	22 59	22 20	0 49	24 25	2 5	23 20	0 54	9 45	0 44	8 29	1 16	0s 0	2 20	22 58	0 5	0 49	1 25	0 39	16 7	22 44	22 35	22 11	5 19	5 25
S 3	22 54	22 44	0s16	24 13	2 6	23 12	0 56	9 56	0 45	8 31	1 16	0 0	2 20	22 58	0 5	0 49	1 25	0 39	16 6	22 44	22 35	22 10	5 18	5 24
S 4	22 48	22 7	1 20	24 0	2 7	23 4	0 58	10 8	0 46	8 33	1 17	0 1	2 20	22 58	0 5	0 49	1 25	0 39	16 6	22 43	22 34	22 10	5 17	5 24
M 5	22 42	20 31	2 21	23 45	2 8	22 55	0 59	10 20	0 47	8 35	1 17	0 1	2 21	22 58	0 5	0 48	1 25	0 38	16 6	22 43	22 34	22 9	5 17	5 24
T 6	22 35	18 2	3 16	23 28	2 8	22 45	1 1	10 32	0 48	8 38	1 17	0 1	2 21	22 57	0 5	0 48	1 25	0 38	16 5	22 43	22 33	22 8	5 16	5 23
W 7	22 28	14 45	4 2	23 10	2 7	22 34	1 3	10 43	0 49	8 40	1 17	0 1	2 21	22 57	0 5	0 48	1 25	0 38	16 5	22 42	22 33	22 7	5 15	5 23
T 8	22 20	10 50	4 38	22 50	2 6	22 23	1 5	10 55	0 50	8 42	1 17	0 1	2 21	22 57	0 5	0 47	1 24	0 38	16 5	22 42	22 33	22 6	5 14	5 23
F 9	22 12	6 27	5 2	22 28	2 5	22 11	1 6	11 7	0 51	8 44	1 18	0 1	2 22	22 57	0 5	0 47	1 24	0 38	16 4	22 41	22 32	22 5	5 13	5 23
S 10	22 4	1 44	5 12	22 5	2 3	21 59	1 8	11 19	0 52	8 45	1 18	0 1	2 22	22 57	0 5	0 46	1 24	0 37	16 4	22 40	22 32	22 5	5 13	5 22
S 11	21 55	3s 8	5 7	21 41	2 1	21 45	1 9	11 31	0 53	8 47	1 18	0 1	2 22	22 57	0 5	0 46	1 24	0 37	16 4	22 40	22 32	22 4	5 12	5 22
M12	21 46	7 58	4 46	21 15	1 57	21 32	1 11	11 42	0 54	8 49	1 18	0 1	2 23	22 56	0 5	0 46	1 24	0 37	16 3	22 40	22 31	22 3	5 11	5 22
T 13	21 36	12 33	4 10	20 47	1 54	21 17	1 12	11 54	0 55	8 51	1 19	0 1	2 23	22 56	0 5	0 45	1 24	0 37	16 3	22 40	22 31	22 2	5 10	5 21
W14	21 26	16 38	3 19	20 18	1 49	21 2	1 14	12 6	0 56	8 52	1 19	0 0	2 23	22 56	0 5	0 45	1 24	0 36	16 3	22 40	22 30	22 1	5 9	5 21
T 15	21 15	19 54	2 15	19 48	1 44	20 46	1 15	12 18	0 57	8 54	1 19	0 0	2 23	22 56	0 5	0 44	1 24	0 36	16 2	22 40	22 30	22 0	5 8	5 21
F 16	21 4	22 1	1 1	19 17	1 38	20 30	1 16	12 30	0 58	8 56	1 19	0n 0	2 24	22 56	0 5	0 44	1 24	0 36	16 2	22 40	22 30	21 59	5 7	5 21
S 17	20 53	22 41	0n19	18 44	1 32	20 13	1 18	12 41	0 59	8 57	1 19	0 0	2 24	22 55	0 5	0 43	1 24	0 35	16 2	22 40	22 29	21 59	5 6	5 20
S 18	20 41	21 45	1 39	18 10	1 24	19 55	1 19	12 53	1 0	8 59	1 20	0 1	2 24	22 55	0 5	0 43	1 24	0 35	16 1	22 40	22 29	21 58	5 5	5 20
M19	20 29	19 16	2 52	17 35	1 16	19 37	1 20	13 5	1 0	9 0	1 20	0 1	2 25	22 55	0 5	0 42	1 24	0 35	16 1	22 40	22 29	21 57	5 4	5 20
T 20	20 16	15 27	3 53	17 0	1 7	19 18	1 21	13 17	1 1	9 1	1 20	0 2	2 25	22 55	0 5	0 42	1 24	0 35	16 1	22 39	22 28	21 56	5 3	5 20
W21	20 3	10 43	4 37	16 24	0 57	18 59	1 22	13 28	1 2	9 2	1 20	0 2	2 25	22 55	0 5	0 41	1 24	0 34	16 0	22 38	22 28	21 55	5 2	5 20
T 22	19 50	5 28	5 2	15 48	0 47	18 39	1 23	13 40	1 3	9 4	1 21	0 3	2 25	22 55	0 5	0 40	1 24	0 34	16 0	22 37	22 27	21 54	5 1	5 19
F 23	19 36	0 5	5 8	15 12	0 35	18 19	1 24	13 52	1 3	9 5	1 21	0 3	2 26	22 55	0 5	0 40	1 24	0 34	16 0	22 36	22 27	21 53	5 0	5 19
S 24	19 22	5n 8	4 56	14 36	0 22	17 58	1 25	14 3	1 4	9 6	1 21	0 4	2 26	22 54	0 5	0 39	1 24	0 33	15 59	22 36	22 27	21 52	4 59	5 19
S 25	19 8	9 56	4 28	14 0	0 9	17 37	1 25	14 15	1 5	9 7	1 21	0 5	2 26	22 54	0 5	0 39	1 24	0 33	15 59	22 35	22 26	21 51	4 58	5 19
M26	18 53	14 8	3 47	13 26	0n 5	17 15	1 26	14 27	1 5	9 7	1 22	0 5	2 27	22 54	0 5	0 38	1 24	0 33	15 59	22 35	22 26	21 50	4 57	5 18
T 27	18 38	17 36	2 57	12 53	0 20	16 52	1 27	14 38	1 6	9 8	1 22	0 6	2 27	22 54	0 5	0 38	1 24	0 32	15 58	22 35	22 25	21 50	4 56	5 18
W28	18 23	20 13	1 59	12 21	0 36	16 29	1 27	14 49	1 7	9 9	1 22	0 7	2 27	22 54	0 5	0 37	1 24	0 32	15 58	22 35	22 25	21 49	4 54	5 18
T 29	18 7	21 55	0 58	11 52	0 53	16 6	1 28	15 1	1 7	9 10	1 22	0 8	2 27	22 54	0 5	0 36	1 24	0 32	15 58	22 35	22 25	21 48	4 53	5 18
F 30	17 51	22 37	0s 5	11 26	1 10	15 42	1 28	15 12	1 8	9 10	1 22	0 9	2 28	22 54	0 5	0 36	1 24	0 31	15 57	22 35	22 24	21 47	4 52	5 18
S 31	17s34	22n18	1s 8	11s 2	1n27	15s18	1s29	15n24	1n 9	9s11	1n23	0n 9	2n28	22n54	0n 5	0s35	1s24	0s31	15s57	22s35	22s24	21n46	4s51	5n18

ASTRODIENST EPHEMERIS for the year 1863

geocentric

FEBRUARY 1863

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 42 49	11°41'11	9°21	27°R32	24°37	8°57	27°12	5°R16	16°R52	1°V47	9°R26	14°R44	13°8	2°15	4°K48	S 1
M 2	8 46 46	12°42'02	21°15	27°31	25°22	9°30	27°14	5°14	16°II51	1°48	9°26	14°R38	13°5	2°22	4°51	M 2
T 3	8 50 42	13°42'51	3°17	27°20	26°37	10°4	27°15	5°12	16°50	1°50	9°27	14°29	13°2	2°29	4°55	T 3
W 4	8 54 39	14°43'39	15°28	26°57	27°52	10°37	27°17	5°10	16°49	1°51	9°27	14°19	12°59	2°35	4°59	W 4
T 5	8 58 36	15°44'26	27°50	26°24	29°7	11°11	27°18	5°8	16°48	1°53	9°27	14°7	12°56	2°42	5°3	T 5
F 6	9 2 32	16°45'12	10°23	25°41	0°K22	11°45	27°19	5°6	16°47	1°55	9°27	13°55	12°52	2°49	5°7	F 6
S 7	9 6 29	17°45'56	23°7	24°49	1°37	12°18	27°20	5°3	16°46	1°57	9°28	13°44	12°49	2°55	5°10	S 7
S 8	9 10 25	18°46'39	6°3	23°50	2°52	12°52	27°21	5°1	16°45	1°58	9°28	13°35	12°46	3°2	5°14	S 8
M 9	9 14 22	19°47'22	19°10	22°45	4°7	13°26	27°21	4°59	16°44	2°0	9°28	13°28	12°43	3°9	5°18	M 9
T 10	9 18 18	20°48'03	2°31	21°37	5°22	14°0	27°22	4°56	16°43	2°2	9°29	13°25	12°40	3°15	5°22	T 10
W11	9 22 15	21°48'43	16°5	20°27	6°37	14°34	27°R22	4°53	16°43	2°4	9°29	13°23	12°37	3°22	5°26	W11
T 12	9 26 11	22°49'22	29°55	19°17	7°52	15°9	27°22	4°50	16°42	2°6	9°30	13°D23	12°33	3°29	5°30	T 12
F 13	9 30 8	23°50'00	14°1	18°9	9°7	15°43	27°21	4°47	16°42	2°7	9°30	13°R23	12°30	3°35	5°34	F 13
S 14	9 34 5	24°50'37	28°22	17°4	10°22	16°17	27°21	4°45	16°41	2°9	9°30	13°23	12°27	3°42	5°38	S 14
S 15	9 38 1	25°51'13	12°56	16°4	11°37	16°52	27°20	4°41	16°41	2°11	9°31	13°20	12°24	3°48	5°42	S 15
M16	9 41 58	26°51'47	27°40	15°10	12°52	17°26	27°20	4°38	16°40	2°13	9°31	13°14	12°21	3°55	5°46	M16
T 17	9 45 54	27°52'21	12°26	14°23	14°6	18°1	27°19	4°35	16°40	2°15	9°32	13°5	12°17	4°2	5°50	T 17
W18	9 49 51	28°52'52	27°7	13°42	15°21	18°36	27°17	4°32	16°39	2°17	9°32	12°54	12°14	4°8	5°53	W18
T 19	9 53 47	29°53'22	11°35	13°10	16°36	19°10	27°16	4°28	16°39	2°19	9°33	12°42	12°11	4°15	5°57	T 19
F 20	9 57 44	0°K53'50	25°43	12°45	17°51	19°45	27°14	4°25	16°39	2°21	9°34	12°31	12°8	4°22	6°1	F 20
S 21	10 1 40	1°54'16	9°V26	12°27	19°6	20°20	27°13	4°21	16°39	2°23	9°34	12°20	12°5	4°28	6°5	S 21
S 22	10 5 37	2°54'41	22°42	12°17	20°20	20°55	27°11	4°18	16°39	2°25	9°35	12°12	12°2	4°35	6°9	S 22
M23	10 9 33	3°55'04	5°B33	12°D13	21°35	21°30	27°9	4°14	16°39	2°27	9°35	12°7	11°58	4°42	6°13	M23
T 24	10 13 30	4°55'25	18°1	12°17	22°50	22°5	27°6	4°10	16°D39	2°29	9°36	12°4	11°55	4°48	6°17	T 24
W25	10 17 27	5°55'44	0°II11	12°27	24°4	22°40	27°4	4°7	16°39	2°31	9°37	12°3	11°52	4°55	6°21	W25
T 26	10 21 23	6°56'01	12°7	12°42	25°19	23°15	27°1	4°3	16°39	2°33	9°37	12°3	11°49	5°2	6°25	T 26
F 27	10 25 20	7°56'16	23°57	13°4	26°33	23°51	26°58	3°59	16°39	2°35	9°38	12°3	11°46	5°8	6°29	F 27
S 28	10 29 16	8°K56'28	5°A44	13°30	27°K48	24°B26	26°A55	3°A55	16°II39	2°V38	9°B39	12°K1	11°K43	5°S15	6°K33	S 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s18	21n0	2s8	10s43	1n44	14s54	1s29	15n35	1n9	9s11	1n23	0n10	2n28	22n53	0n5	0s34	1s24
M 2	17 1	18 46	3 2	10 27	2 1	14 29	1 29	15 46	1 10	9 12	1 23	0 11	2 28	22 53	0 5	0 34	1 24
T 3	16 43	15 43	3 49	10 15	2 18	14 3	1 30	15 57	1 10	9 12	1 23	0 12	2 29	22 53	0 5	0 33	1 24
W 4	16 26	11 58	4 26	10 7	2 34	13 37	1 30	16 8	1 11	9 13	1 24	0 13	2 29	22 53	0 5	0 32	1 24
T 5	16 8	7 40	4 51	10 5	2 49	13 11	1 30	16 19	1 11	9 13	1 24	0 15	2 29	22 53	0 5	0 32	1 24
F 6	15 50	3 0	5 3	10 6	3 3	12 45	1 30	16 30	1 12	9 13	1 24	0 16	2 29	22 53	0 5	0 31	1 23
S 7	15 31	1s51	4 59	10 12	3 15	12 18	1 30	16 41	1 12	9 13	1 24	0 17	2 30	22 53	0 5	0 30	1 23
S 8	15 12	6 42	4 41	10 22	3 25	11 51	1 29	16 52	1 13	9 13	1 25	0 18	2 30	22 53	0 5	0 29	1 23
M 9	14 53	11 19	4 7	10 35	3 33	11 23	1 29	17 3	1 13	9 13	1 25	0 19	2 30	22 53	0 5	0 29	1 23
T 10	14 34	15 28	3 19	10 51	3 39	10 56	1 29	17 14	1 14	9 13	1 25	0 20	2 30	22 53	0 5	0 28	1 23
W11	14 15	18 54	2 20	11 10	3 42	10 28	1 29	17 24	1 14	9 13	1 25	0 22	2 31	22 53	0 5	0 27	1 23
T 12	13 55	21 18	1 11	11 31	3 43	9 59	1 28	17 35	1 15	9 13	1 26	0 23	2 31	22 52	0 5	0 26	1 23
F 13	13 35	22 27	0n3	11 53	3 42	9 31	1 28	17 45	1 15	9 12	1 26	0 24	2 31	22 52	0 5	0 26	1 23
S 14	13 15	22 8	1 19	12 16	3 38	9 2	1 27	17 56	1 15	9 12	1 26	0 26	2 31	22 52	0 5	0 25	1 23
S 15	12 55	20 20	2 30	12 39	3 32	8 33	1 27	18 6	1 16	9 11	1 26	0 27	2 32	22 52	0 5	0 24	1 23
M16	12 34	17 11	3 32	13 2	3 25	8 4	1 26	18 16	1 16	9 11	1 27	0 29	2 32	22 52	0 5	0 23	1 23
T 17	12 13	12 55	4 20	13 24	3 16	7 34	1 25	18 26	1 17	9 10	1 27	0 30	2 32	22 52	0 5	0 23	1 23
W18	11 52	7 56	4 50	13 45	3 6	7 4	1 24	18 36	1 17	9 10	1 27	0 32	2 32	22 52	0 5	0 22	1 23
T 19	11 31	2 35	5 1	14 5	2 55	6 34	1 23	18 46	1 17	9 9	1 27	0 33	2 32	22 52	0 5	0 21	1 23
F 20	11 10	2n47	4 53	14 23	2 43	6 4	1 22	18 56	1 18	9 8	1 27	0 35	2 33	22 52	0 5	0 20	1 23
S 21	10 48	7 51	4 29	14 40	2 31	5 34	1 21	19 6	1 18	9 7	1 28	0 36	2 33	22 52	0 5	0 19	1 23
S 22	10 27	12 24	3 50	14 55	2 18	5 4	1 20	19 15	1 18	9 7	1 28	0 38	2 33	22 52	0 5	0 19	1 23
M23	10 5	16 13	3 1	15 9	2 5	4 33	1 19	19 25	1 19	9 6	1 28	0 40	2 33	22 52	0 5	0 18	1 23
T 24	9 43	19 11	2 4	15 20	1 52	4 3	1 18	19 34	1 19	9 5	1 28	0 41	2 33	22 52	0 5	0 17	1 23
W25	9 21	21 13	1 3	15 30	1 39	3 32	1 17	19 44	1 19	9 3	1 29	0 43	2 34	22 52	0 5	0 16	1 23
T 26	8 58	22 15	0s0	15 39	1 25	3 1	1 15	19 53	1 20	9 2	1 29	0 45	2 34	22 52	0 5	0 15	1 23
F 27	8 36	22 17	1 3	15 45	1 12	2 30	1 14	20 2	1 20	9 1	1 29	0 46	2 34	22 52	0 5	0 14	1 23
S 28	8s13	21n18	2s2	15s50	1n0	1s59	1s13	20n11	1n20	9s0	1n29	0n48	2n34	22n52	0n5	0s14	1s23

Julian Day Number = 2401537.5, Delta T = 8.92 sec

Ecliptic obliquity = 23°27'23, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°49'42, Lahiri = 21°56'43

ASTRODIENST EPHEMERIS for the year 1863

geocentric

MARCH 1863

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 33 13	9 ^h 56 ^m 39 ^s	17 ^h 34 ^m	14 ^h 22 ^m	29 ^h 17 ^m	25 ^h 17 ^m	26 ^h 52 ^m	3 ^h 51 ^m	16 ^h 39 ^m	2 ^h 40 ^m	9 ^h 40 ^m	11 ^h 57 ^m	11 ^h 39 ^m	5 ^h 22 ^m	6 ^h 37 ^m	S 1
M 2	10 37 9	10 ^h 56 ^m 48 ^s	29 ^h 32 ^m	14 ^h 38 ^m	0 ^h 17 ^m	25 ^h 37 ^m	26 ^h 49 ^m	3 ^h 47 ^m	16 ^h 40 ^m	2 ^h 42 ^m	9 ^h 40 ^m	11 ^h 57 ^m	11 ^h 36 ^m	5 ^h 28 ^m	6 ^h 41 ^m	M 2
T 3	10 41 6	11 ^h 56 ^m 55 ^s	11 ^h 41 ^m	15 ^h 18 ^m	1 ^h 31 ^m	26 ^h 12 ^m	26 ^h 45 ^m	3 ^h 43 ^m	16 ^h 40 ^m	2 ^h 44 ^m	9 ^h 41 ^m	11 ^h 41 ^m	11 ^h 33 ^m	5 ^h 35 ^m	6 ^h 45 ^m	T 3
W 4	10 45 2	12 ^h 57 ^m 00 ^s	24 ^h 4 ^m	16 ^h 2 ^m	2 ^h 46 ^m	26 ^h 48 ^m	26 ^h 41 ^m	3 ^h 38 ^m	16 ^h 41 ^m	2 ^h 46 ^m	9 ^h 42 ^m	11 ^h 29 ^m	11 ^h 30 ^m	5 ^h 42 ^m	6 ^h 49 ^m	W 4
T 5	10 48 59	13 ^h 57 ^m 03 ^s	6 ^h 41 ^m	16 ^h 50 ^m	4 ^h 0 ^m	27 ^h 23 ^m	26 ^h 37 ^m	3 ^h 34 ^m	16 ^h 41 ^m	2 ^h 48 ^m	9 ^h 43 ^m	11 ^h 15 ^m	11 ^h 27 ^m	5 ^h 48 ^m	6 ^h 53 ^m	T 5
F 6	10 52 56	14 ^h 57 ^m 04 ^s	19 ^h 33 ^m	17 ^h 41 ^m	5 ^h 14 ^m	27 ^h 59 ^m	26 ^h 33 ^m	3 ^h 30 ^m	16 ^h 42 ^m	2 ^h 50 ^m	9 ^h 44 ^m	11 ^h 2 ^m	11 ^h 23 ^m	5 ^h 55 ^m	6 ^h 57 ^m	F 6
S 7	10 56 52	15 ^h 57 ^m 03 ^s	2 ^h 38 ^m	18 ^h 35 ^m	6 ^h 29 ^m	28 ^h 34 ^m	26 ^h 29 ^m	3 ^h 25 ^m	16 ^h 42 ^m	2 ^h 53 ^m	9 ^h 45 ^m	10 ^h 49 ^m	11 ^h 20 ^m	6 ^h 2 ^m	7 ^h 1 ^m	S 7
S 8	11 0 49	16 ^h 57 ^m 00 ^s	15 ^h 56 ^m	19 ^h 32 ^m	7 ^h 43 ^m	29 ^h 10 ^m	26 ^h 25 ^m	3 ^h 21 ^m	16 ^h 43 ^m	2 ^h 55 ^m	9 ^h 45 ^m	10 ^h 38 ^m	11 ^h 17 ^m	6 ^h 8 ^m	7 ^h 5 ^m	S 8
M 9	11 4 45	17 ^h 56 ^m 55 ^s	29 ^h 24 ^m	20 ^h 32 ^m	8 ^h 57 ^m	29 ^h 45 ^m	26 ^h 20 ^m	3 ^h 17 ^m	16 ^h 43 ^m	2 ^h 57 ^m	9 ^h 46 ^m	10 ^h 30 ^m	11 ^h 14 ^m	6 ^h 15 ^m	7 ^h 9 ^m	M 9
T 10	11 8 42	18 ^h 56 ^m 49 ^s	13 ^h 11 ^m	21 ^h 35 ^m	10 ^h 11 ^m	0 ^h 11 ^m	26 ^h 16 ^m	3 ^h 12 ^m	16 ^h 44 ^m	2 ^h 59 ^m	9 ^h 47 ^m	10 ^h 25 ^m	11 ^h 11 ^m	6 ^h 22 ^m	7 ^h 13 ^m	T 10
W 11	11 12 38	19 ^h 56 ^m 41 ^s	26 ^h 47 ^m	22 ^h 40 ^m	11 ^h 25 ^m	0 ^h 57 ^m	26 ^h 11 ^m	3 ^h 8 ^m	16 ^h 45 ^m	3 ^h 1 ^m	9 ^h 48 ^m	10 ^h 23 ^m	11 ^h 8 ^m	6 ^h 28 ^m	7 ^h 16 ^m	W 11
T 12	11 16 35	20 ^h 56 ^m 32 ^s	10 ^h 41 ^m	23 ^h 47 ^m	12 ^h 40 ^m	1 ^h 33 ^m	26 ^h 6 ^m	3 ^h 3 ^m	16 ^h 46 ^m	3 ^h 4 ^m	9 ^h 49 ^m	10 ^h D22	11 ^h 4 ^m	6 ^h 35 ^m	7 ^h 20 ^m	T 12
F 13	11 20 31	21 ^h 56 ^m 21 ^s	24 ^h 42 ^m	24 ^h 57 ^m	13 ^h 54 ^m	2 ^h 8 ^m	26 ^h 1 ^m	2 ^h 59 ^m	16 ^h 47 ^m	3 ^h 6 ^m	9 ^h 50 ^m	10 ^h R22	11 ^h 1 ^m	6 ^h 42 ^m	7 ^h 24 ^m	F 13
S 14	11 24 28	22 ^h 56 ^m 08 ^s	8 ^h 31 ^m	26 ^h 9 ^m	15 ^h 8 ^m	2 ^h 44 ^m	25 ^h 55 ^m	2 ^h 54 ^m	16 ^h 48 ^m	3 ^h 8 ^m	9 ^h 51 ^m	10 ^h 22 ^m	10 ^h 58 ^m	6 ^h 48 ^m	7 ^h 28 ^m	S 14
S 15	11 28 25	23 ^h 55 ^m 54 ^s	23 ^h 6 ^m	27 ^h 22 ^m	16 ^h 22 ^m	3 ^h 20 ^m	25 ^h 50 ^m	2 ^h 49 ^m	16 ^h 49 ^m	3 ^h 10 ^m	9 ^h 52 ^m	10 ^h 19 ^m	10 ^h 55 ^m	6 ^h 55 ^m	7 ^h 32 ^m	S 15
M 16	11 32 21	24 ^h 55 ^m 38 ^s	7 ^h 25 ^m	28 ^h 38 ^m	17 ^h 36 ^m	3 ^h 56 ^m	25 ^h 44 ^m	2 ^h 45 ^m	16 ^h 50 ^m	3 ^h 13 ^m	9 ^h 53 ^m	10 ^h 14 ^m	10 ^h 52 ^m	7 ^h 2 ^m	7 ^h 36 ^m	M 16
T 17	11 36 18	25 ^h 55 ^m 20 ^s	21 ^h 44 ^m	29 ^h 55 ^m	18 ^h 50 ^m	4 ^h 32 ^m	25 ^h 38 ^m	2 ^h 40 ^m	16 ^h 51 ^m	3 ^h 15 ^m	9 ^h 54 ^m	10 ^h 5 ^m	10 ^h 49 ^m	7 ^h 8 ^m	7 ^h 40 ^m	T 17
W 18	11 40 14	26 ^h 55 ^m 00 ^s	5 ^h 14 ^m	1 ^h 14 ^m	20 ^h 3 ^m	5 ^h 8 ^m	25 ^h 33 ^m	2 ^h 36 ^m	16 ^h 52 ^m	3 ^h 17 ^m	9 ^h 55 ^m	9 ^h 55 ^m	10 ^h 45 ^m	7 ^h 15 ^m	7 ^h 43 ^m	W 18
T 19	11 44 11	27 ^h 54 ^m 38 ^s	20 ^h 3 ^m	2 ^h 35 ^m	21 ^h 17 ^m	5 ^h 44 ^m	25 ^h 27 ^m	2 ^h 31 ^m	16 ^h 53 ^m	3 ^h 19 ^m	9 ^h 56 ^m	9 ^h 43 ^m	10 ^h 42 ^m	7 ^h 22 ^m	7 ^h 47 ^m	T 19
F 20	11 48 7	28 ^h 54 ^m 14 ^s	3 ^h 15 ^m	3 ^h 57 ^m	22 ^h 31 ^m	6 ^h 20 ^m	25 ^h 20 ^m	2 ^h 26 ^m	16 ^h 55 ^m	3 ^h 22 ^m	9 ^h 57 ^m	9 ^h 32 ^m	10 ^h 39 ^m	7 ^h 28 ^m	7 ^h 51 ^m	F 20
S 21	11 52 4	29 ^h 53 ^m 48 ^s	17 ^h 24 ^m	5 ^h 21 ^m	23 ^h 45 ^m	6 ^h 56 ^m	25 ^h 14 ^m	2 ^h 21 ^m	16 ^h 56 ^m	3 ^h 24 ^m	9 ^h 58 ^m	9 ^h 22 ^m	10 ^h 36 ^m	7 ^h 35 ^m	7 ^h 55 ^m	S 21
S 22	11 56 0	0 ^h 15 ^m 32 ^s	0 ^h 33 ^m	6 ^h 46 ^m	24 ^h 59 ^m	7 ^h 32 ^m	25 ^h 8 ^m	2 ^h 17 ^m	16 ^h 57 ^m	3 ^h 26 ^m	9 ^h 59 ^m	9 ^h 13 ^m	10 ^h 33 ^m	7 ^h 42 ^m	7 ^h 58 ^m	S 22
M 23	11 59 57	1 ^h 52 ^m 51 ^s	13 ^h 20 ^m	8 ^h 13 ^m	26 ^h 12 ^m	8 ^h 8 ^m	25 ^h 1 ^m	2 ^h 12 ^m	16 ^h 59 ^m	3 ^h 28 ^m	10 ^h 0 ^m	9 ^h 8 ^m	10 ^h 29 ^m	7 ^h 48 ^m	8 ^h 2 ^m	M 23
T 24	12 3 54	2 ^h 52 ^m 18 ^s	25 ^h 48 ^m	9 ^h 42 ^m	27 ^h 26 ^m	8 ^h 44 ^m	24 ^h 55 ^m	2 ^h 7 ^m	17 ^h 0 ^m	3 ^h 31 ^m	10 ^h 2 ^m	9 ^h 5 ^m	10 ^h 26 ^m	7 ^h 55 ^m	8 ^h 6 ^m	T 24
W 25	12 7 50	3 ^h 51 ^m 44 ^s	7 ^h 11 ^m	11 ^h 12 ^m	28 ^h 40 ^m	9 ^h 20 ^m	24 ^h 48 ^m	2 ^h 3 ^m	17 ^h 2 ^m	3 ^h 33 ^m	10 ^h 3 ^m	9 ^h D 4	10 ^h 23 ^m	8 ^h 1 ^m	8 ^h 10 ^m	W 25
T 26	12 11 47	4 ^h 51 ^m 07 ^s	19 ^h 57 ^m	12 ^h 43 ^m	29 ^h 53 ^m	9 ^h 57 ^m	24 ^h 41 ^m	1 ^h 58 ^m	17 ^h 3 ^m	3 ^h 35 ^m	10 ^h 4 ^m	9 ^h 4 ^m	10 ^h 20 ^m	8 ^h 8 ^m	8 ^h 13 ^m	T 26
F 27	12 15 43	5 ^h 50 ^m 28 ^s	1 ^h 38 ^m	14 ^h 16 ^m	1 ^h 7 ^m	10 ^h 33 ^m	24 ^h 34 ^m	1 ^h 53 ^m	17 ^h 5 ^m	3 ^h 38 ^m	10 ^h 5 ^m	9 ^h R 5	10 ^h 17 ^m	8 ^h 15 ^m	8 ^h 17 ^m	F 27
S 28	12 19 40	6 ^h 49 ^m 47 ^s	13 ^h 37 ^m	15 ^h 50 ^m	2 ^h 20 ^m	11 ^h 9 ^m	24 ^h 28 ^m	1 ^h 49 ^m	17 ^h 6 ^m	3 ^h 40 ^m	10 ^h 6 ^m	9 ^h 5 ^m	10 ^h 14 ^m	8 ^h 21 ^m	8 ^h 20 ^m	S 28
S 29	12 23 36	7 ^h 49 ^m 03 ^s	25 ^h 29 ^m	17 ^h 25 ^m	3 ^h 34 ^m	11 ^h 45 ^m	24 ^h 21 ^m	1 ^h 44 ^m	17 ^h 8 ^m	3 ^h 42 ^m	10 ^h 7 ^m	9 ^h 3 ^m	10 ^h 10 ^m	8 ^h 28 ^m	8 ^h 24 ^m	S 29
M 30	12 27 33	8 ^h 48 ^m 17 ^s	7 ^h 13 ^m	19 ^h 2 ^m	4 ^h 47 ^m	12 ^h 22 ^m	24 ^h 13 ^m	1 ^h 39 ^m	17 ^h 10 ^m	3 ^h 44 ^m	10 ^h 8 ^m	8 ^h 59 ^m	10 ^h 7 ^m	8 ^h 35 ^m	8 ^h 28 ^m	M 30
T 31	12 31 29	9 ^h 14 ^m 29 ^s	19 ^h 14 ^m	20 ^h 41 ^m	6 ^h 0 ^m	12 ^h 11 ^m	24 ^h 6 ^m	1 ^h 35 ^m	17 ^h 12 ^m	3 ^h 17 ^m	10 ^h 10 ^m	8 ^h 53 ^m	10 ^h 4 ^m	8 ^h 31 ^m	8 ^h 31 ^m	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7s51	19n23	2s56	15s53	0n47	1s28	1s11	20n20	1n20	8s58	1n29	0n50	2n34	22n52	0n 5	0s13	1s23	0s18	15s47	22s14	22s12	21n17	4s13	5n15					
M 2	7 28	16 37	3 43	15 54	0 35	0 57	1 10	20 29	1 21	8 57	1 30	0 52	2 34	22 52	0 5	0 12	1 23	0 17	15 47	22 13	22 12	21 15	4 11	5 14					
T 3	7 5	13 7	4 21	15 54	0 23	0 26	1 8	20 38	1 21	8 56	1 30	0 53	2 35	22 52	0 5	0 11	1 23	0 17	15 47	22 12	22 11	21 14	4 10	5 14					
W 4	6 42	9 0	4 47	15 52	0 11	0n 5	1 6	20 46	1 21	8 54	1 30	0 55	2 35	22 52	0 5	0 10	1 23	0 16	15 46	22 10	22 11	21 13	4 9	5 14					
T 5	6 19	4 26	4 59	15 48	0 0	0 36	1 5	20 54	1 21	8 52	1 30	0 57	2 35	22 52	0 5	0 9	1 23	0 16	15 46	22 9	22 10	21 12	4 7	5 14					
F 6	5 56	0s24	4 57	15 43	0s11	1 7	1 3	21 3	1 21	8 51	1 30	0 59	2 35	22 53	0 5	0 8	1 23	0 15	15 46	22 7	22 10	21 11	4 6	5 14					
S 7	5 33	5 19	4 39	15 36	0 21	1 39	1 1	21 11	1 22	8 49	1 31	1 1	2 35	22 53	0 5	0 7	1 23	0 14	15 45	22 5	22 9	21 10	4 4	5 14					
S 8	5 9	10 3	4 6	15 28	0 31	2 10	0 59	21 19	1 22	8 47	1 31	1 3	2 35	22 53	0 5	0 7	1 23	0 14	15 45	22 3	22 9	21 9	4 3	5 14					
M 9	4 46	14 22	3 18	15 18	0 41	2 41	0 57	21 27	1 22	8 46	1 31	1 4	2 35	22 53	0 5	0 6	1 23	0 13	15 45	22 2	22 8	21 8	4 1	5 14					
T 10	4 23	17 58	2 19	15 6	0 50	3 12	0 55	21 35	1 22	8 44	1 31	1 6	2 36	22 53	0 5	0 5	1 23	0 13	15 45	22 2	22 8	21 7	4 0	5 14					
W 11	3 59	20 36	1 11	14 54	0 59	3 43	0 53	21 42	1 22	8 42	1 31	1 8	2 36	22 53	0 5	0 4	1 23	0 12	15 44	22 1	22 8	21 6	3 59	5 14					
T 12	3 36	22 2	0n 2	14 39	1 7	4 13	0 51	21 50	1 23	8 40	1 31	1 10	2 36	22 53	0 5	0 3	1 23	0 12	15 44	22 1	22 7	21 4	3 57	5 14					
F 13	3 12	22 6	1 15	14 24	1 15	4 44	0 49	21 57	1 23	8 38	1 32	1 12	2 36	22 53	0 5	0 2	1 23	0 11	15 44	22 1	22 7	21 3	3 56	5 14					
S 14	2 48	20 45	2 25	14 6	1 23	5 15	0 46	22 5	1 23	8 36	1 32	1 14	2 36	22 53	0 5	0 1	1 23	0 11	15 44	22 1	22 6	21 2	3 54	5 14					
S 15	2 25	18 6	3 26	13 48	1 30	5 46	0 44	22 12	1 23	8 34	1 32	1 16	2 36	22 53	0 5	0 0	1 23	0 10	15 43	22 1	22 6	21 1	3 53	5 14					
M 16	2 1	14 20	4 14	13 28	1 36	6 16	0 42	22 19	1 23	8 31	1 32	1 18	2 36	22 53	0 5	0n 1	1 23	0 10	15 43	22 0	22 5	21 0	3 51	5 15					
T 17	1 37	9 45	4 46	13 6	1 42	6 46	0 39	22 26	1 23	8 29	1 32	1 20	2 36	22 54	0 5	0 1	1 23	0 9	15 43	21 59	22 5	20 59	3 50	5 15					
W 18	1 14	4 40	5 1	12 44	1 48	7 16	0 37	22 32	1 24	8 27	1 32	1 21	2 36	22 54	0 5	0 2	1 23	0 9	15 43	21 57	22 4	20 58	3 49	5 15					
T 19	0 50	0n37	4 57	12 20	1 54	7 46	0 35	22 39	1 24	8 25	1 32	1 23	2 36	22 54	0 5	0 3	1 23	0 8	15 42	21 55	22 4	20 57	3 46	5 15					
F 20	0 26	5 45	4 35	11 54	1 59	8 16	0 32	22 45	1 24	8 22	1 33	1 25	2 36	22 54	0 5	0 4	1 23	0 8	15 42	21 54	22 4	20 55	3 47	5 15					
S 21	0 2	10 30	3 59	11 28	2 3	8 46	0 30	22 52	1 24	8 20	1 33	1 27	2 36	22 54	0 5	0 5	1 23	0 7	15 42	21 52	22 3	20 54	3 44	5 15					
S 22	0n21	14 38	3 10	11 0	2 7	9 15	0 27	22 58	1 24	8 18	1 33	1 29	2 36	22 54	0 5	0 6	1 23	0 7	15 42	21 51	22 3	20 53	3 43	5 15					
M 23	0 45	17 58	2 13	10 31	2 11	9 45	0 25	23 4	1 24	8 15	1 33	1 31	2 37	22 54	0 5	0 7	1 23	0 6	15 41	21 50	22 2	20 52	3 41	5 15					
T 24	1 9	20 21	1 10	10 0	2 14	10 14	0 22	23 10	1 24	8 13	1 33	1 33	2 37	22 54	0 5	0 8	1 23	0 5	15 41	21 50	22 2	20 51	3 40	5 15					
W 25	1 32	21 45	0 6	9 29	2 16	10 42	0 19	23 15	1 24	8 10	1 33	1 35	2 37	22 55	0 5	0 9	1 23	0 5	15 41	21 50	22 1	20 50	3 39	5 15					
T 26	1 56	22 7	0s58	8 56	2 19	11 11	0 17	23 21	1 24	8 8	1 33	1 37	2 37	22 55	0 5	0 10	1 23	0 4	15 41	21 50	22 1	20 48	3 37	5 15					
F 27	2 19	21 28	1 58	8 21	2 20	11 39	0 14	23 26	1 24	8 5	1 33	1 39	2 37	22 55	0 5	0 10	1 23	0 4	15 41	21 50	22 0	20 47	3 36	5 15					
S 28	2 43	19 53	2 54	7 46	2 22	12 7	0 11	23 31	1 24	8 2	1 33	1 41	2 37	22 55	0 5	0 11	1 23	0 3	15 40	21 50	22 0	20 46	3 34	5 15					
S 29	3 6	17 25	3 42	7 10	2 23	12 35	0 8	23 37	1 25	8 0	1 33	1 42	2 37	22 55	0 5	0 12	1 23	0 3	15 40	21 49	21 59	20 45	3 33	5 15					
M 30	3 30	14 12	4 21	6 32	2 23	13 2	0 6	23 41	1 25	7 57	1 34	1 44	2 37	22 55	0 5	0 13	1 23	0 2	15 40	21 49	21 59	20 44	3 31	5 15					
T 31	3n53	10n21	4s48	5s53	2s23	13n29	0s 3	23n46	1n25	7s54	1n34	1n46	2n37	22n56	0n 5	0n14	1s23	0s 2	15s40	21s48	21s59	20n42	3s30	5n16					

ASTRODIENST EPHEMERIS for the year 1863

geocentric

APRIL 1863

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 35 26	10°46'38	2°13	22°21	7°14	13°34	23°R59	1°R30	17°13	3°49	10°11	8°R44	10°1	8°48	8°35	W 1
T 2	12 39 22	11°45'46	15° 1	24° 2	8°27	14°11	23°52	1°25	17°15	3°51	10°12	8°35	9°58	8°55	8°38	T 2
F 3	12 43 19	12°44'51	28° 8	25°44	9°40	14°47	23°44	1°21	17°17	3°53	10°13	8°25	9°54	9° 1	8°41	F 3
S 4	12 47 16	13°43'54	11°33	27°29	10°53	15°23	23°37	1°16	17°19	3°56	10°14	8°15	9°51	9° 8	8°45	S 4
S 5	12 51 12	14°42'54	25°14	29°14	12° 6	16° 0	23°29	1°12	17°21	3°58	10°16	8° 8	9°48	9°15	8°48	S 5
M 6	12 55 9	15°41'53	9°11	1°1	13°19	16°36	23°22	1° 7	17°23	4° 0	10°17	8° 2	9°45	9°21	8°52	M 6
T 7	12 59 5	16°40'50	23°11	2°50	14°32	17°13	23°14	1° 3	17°25	4° 2	10°18	7°59	9°42	9°28	8°55	T 7
W 8	13 3 2	17°39'46	7°19	4°40	15°45	17°49	23° 7	0°58	17°27	4° 5	10°19	7°D58	9°39	9°35	8°58	W 8
T 9	13 6 58	18°38'39	21°30	6°31	16°58	18°25	22°59	0°54	17°30	4° 7	10°21	7°59	9°35	9°41	9° 1	T 9
F 10	13 10 55	19°37'31	5°34	8°24	18°11	19° 2	22°51	0°50	17°32	4° 9	10°22	8° 0	9°32	9°48	9° 5	F 10
S 11	13 14 51	20°36'21	19°51	10°18	19°24	19°38	22°44	0°45	17°34	4°11	10°23	8°R 0	9°29	9°55	9° 8	S 11
S 12	13 18 48	21°35'10	3°58	12°14	20°36	20°15	22°36	0°41	17°36	4°13	10°25	8° 0	9°26	10° 1	9°11	S 12
M13	13 22 45	22°33'56	18° 0	14°12	21°49	20°51	22°28	0°37	17°39	4°16	10°26	7°57	9°23	10° 8	9°14	M13
T 14	13 26 41	23°32'41	1°56	16°10	23° 2	21°28	22°21	0°33	17°41	4°18	10°27	7°53	9°20	10°15	9°17	T 14
W15	13 30 38	24°31'24	15°44	18°11	24°14	22° 4	22°13	0°29	17°44	4°20	10°29	7°46	9°16	10°21	9°20	W15
T 16	13 34 34	25°30'06	29°22	20°12	25°27	22°41	22° 5	0°25	17°46	4°22	10°30	7°39	9°13	10°28	9°23	T 16
F 17	13 38 31	26°28'45	12°46	22°15	26°39	23°18	21°58	0°21	17°48	4°24	10°31	7°32	9°10	10°35	9°26	F 17
S 18	13 42 27	27°27'23	25°55	24°19	27°52	23°54	21°50	0°17	17°51	4°26	10°33	7°26	9° 7	10°41	9°29	S 18
S 19	13 46 24	28°25'59	8°47	26°25	29° 4	24°31	21°42	0°13	17°54	4°29	10°34	7°21	9° 4	10°48	9°32	S 19
M20	13 50 20	29°24'33	21°23	28°31	0°11	25° 7	21°35	0° 9	17°56	4°31	10°35	7°18	9° 0	10°55	9°35	M20
T 21	13 54 17	0°23'05	3°11	0°38	1°28	25°44	21°27	0° 5	17°59	4°33	10°37	7°D17	8°57	11° 1	9°38	T 21
W22	13 58 14	1°21'34	15°51	2°46	2°41	26°21	21°20	0° 2	18° 1	4°35	10°38	7°17	8°54	11° 8	9°41	W22
T 23	14 2 10	2°20'02	27°49	4°54	3°53	26°57	21°12	29°11	18° 4	4°37	10°39	7°18	8°51	11°15	9°43	T 23
F 24	14 6 7	3°18'28	9°40	7° 3	5° 5	27°34	21° 5	29°55	18° 7	4°39	10°41	7°20	8°48	11°21	9°46	F 24
S 25	14 10 3	4°16'52	21°29	9°11	6°17	28°11	20°57	29°51	18°10	4°41	10°42	7°22	8°45	11°28	9°49	S 25
S 26	14 14 0	5°15'13	3°12	11°19	7°29	28°47	20°50	29°48	18°12	4°43	10°43	7°R22	8°41	11°35	9°51	S 26
M27	14 17 56	6°13'33	15°23	13°27	8°40	29°24	20°43	29°44	18°15	4°45	10°45	7°22	8°38	11°41	9°54	M27
T 28	14 21 53	7°11'50	27°37	15°34	9°52	0°1	20°36	29°41	18°18	4°47	10°46	7°20	8°35	11°48	9°57	T 28
W29	14 25 49	8°10'05	10°11	17°39	11° 4	0°38	20°29	29°38	18°21	4°49	10°47	7°17	8°32	11°55	9°59	W29
T 30	14 29 46	9°8'18	23°11	19°43	12°16	1°14	20°22	29°35	18°24	4°51	10°49	7°14	8°29	12°1	10°1	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
W 1	4n16	5n58	5s 3	5s13	2s22	13n56	0s 0	23n51	1n25	7s52	1n34	1n48	2n37	22n56	0n 5	0n15	1s23	0s 1	15s40	21s47	21s58	20n41	3s29	5n16	
T 2	4 39	1 15	5 3	4 32	2 21	14 22	0n 3	23 55	1 25	7 49	1 34	1 50	2 37	22 56	0 5	0 16	1 23	0 1	15 40	21 45	21 58	20 40	3 27	5 16	
F 3	5 2	3s39	4 47	3 50	2 20	14 48	0 6	24 0	1 25	7 46	1 34	1 52	2 37	22 56	0 5	0 17	1 23	0 0	15 39	21 43	21 57	20 39	3 26	5 16	
S 4	5 25	8 29	4 16	3 6	2 17	15 14	0 8	24 4	1 25	7 43	1 34	1 53	2 37	22 56	0 5	0 18	1 23	0n 0	15 39	21 42	21 57	20 38	3 25	5 16	
S 5	5 48	13 0	3 29	2 22	2 15	15 40	0 11	24 8	1 25	7 41	1 34	1 55	2 37	22 57	0 5	0 18	1 23	0 1	15 39	21 41	21 56	20 36	3 23	5 16	
M 6	6 11	16 54	2 29	1 37	2 12	16 5	0 14	24 11	1 25	7 38	1 34	1 57	2 37	22 57	0 5	0 19	1 23	0 1	15 39	21 40	21 56	20 35	3 22	5 16	
T 7	6 34	19 51	1 19	0 50	2 8	16 29	0 17	24 15	1 25	7 35	1 34	1 59	2 37	22 57	0 5	0 20	1 23	0 2	15 39	21 39	21 55	20 34	3 20	5 16	
W 8	6 56	21 36	0 3	0 3	2 4	16 53	0 20	24 18	1 25	7 32	1 34	2 0	2 36	22 57	0 5	0 21	1 23	0 2	15 39	21 39	21 55	20 33	3 19	5 16	
T 9	7 19	21 59	1n12	0n46	2 0	17 17	0 23	24 22	1 25	7 29	1 34	2 2	2 36	22 57	0 5	0 22	1 23	0 3	15 38	21 39	21 54	20 31	3 18	5 17	
F 10	7 41	20 56	2 24	1 35	1 54	17 40	0 26	24 25	1 25	7 26	1 34	2 4	2 36	22 58	0 5	0 23	1 23	0 3	15 38	21 39	21 54	20 30	3 16	5 17	
S 11	8 3	18 35	3 26	2 25	1 49	18 3	0 29	24 28	1 25	7 24	1 34	2 5	2 36	22 58	0 5	0 24	1 23	0 4	15 38	21 40	21 53	20 29	3 15	5 17	
S 12	8 25	15 7	4 16	3 16	1 43	18 26	0 32	24 31	1 25	7 21	1 34	2 7	2 36	22 58	0 5	0 24	1 23	0 4	15 38	21 39	21 53	20 28	3 14	5 17	
M13	8 47	10 50	4 50	4 7	1 36	18 47	0 35	24 33	1 25	7 18	1 34	2 9	2 36	22 58	0 5	0 25	1 23	0 5	15 38	21 39	21 52	20 26	3 13	5 17	
T 14	9 9	6 0	5 7	5 0	1 29	19 9	0 38	24 36	1 25	7 15	1 34	2 10	2 36	22 58	0 5	0 26	1 23	0 5	15 38	21 38	21 52	20 25	3 11	5 17	
W15	9 31	0 56	5 6	5 53	1 21	19 30	0 40	24 38	1 25	7 12	1 34	2 12	2 36	22 59	0 5	0 27	1 23	0 6	15 38	21 37	21 51	20 24	3 10	5 18	
T 16	9 52	4n 8	4 47	6 46	1 13	19 50	0 43	24 40	1 25	7 9	1 34	2 13	2 36	22 59	0 5	0 28	1 23	0 6	15 38	21 36	21 51	20 23	3 9	5 18	
F 17	10 13	8 55	4 13	7 40	1 5	20 10	0 46	24 42	1 25	7 7	1 34	2 15	2 36	22 59	0 5	0 29	1 23	0 7	15 37	21 35	21 50	20 21	3 7	5 18	
S 18	10 35	13 12	3 26	8 34	0 56	20 30	0 49	24 44	1 25	7 4	1 34	2 16	2 36	22 59	0 5	0 29	1 23	0 7	15 37	21 34	21 50	20 20	3 6	5 18	
S 19	10 55	16 47	2 29	9 28	0 47	20 49	0 52	24 45	1 25	7 1	1 34	2 18	2 36	23 0	0 5	0 30	1 23	0 8	15 37	21 33	21 49	20 19	3 5	5 18	
M20	11 16	19 30	1 26	10 23	0 37	21 7	0 55	24 47	1 25	6 58	1 33	2 19	2 36	23 0	0 5	0 31	1 23	0 8	15 37	21 33	21 49	20 18	3 4	5 18	
T 21	11 37	21 14	0 19	11 17	0 27	21 25	0 58	24 48	1 25	6 56	1 33	2 20	2 35	23 0	0 5	0 32	1 23	0 9	15 37	21 32	21 48	20 16	3 2	5 19	
W22	11 57	21 56	0s47	12 11	0 17	21 42	1 0	24 49	1 25	6 53	1 33	2 22	2 35	23 0	0 5	0 33	1 23	0 9	15 37	21 32	21 48	20 15	3 1	5 19	
T 23	12 18	21 36	1 50	13 4	0 6	21 58	1 3	24 50	1 25	6 50	1 33	2 23	2 35	23 1	0 5	0 34	1 23	0 10	15 37	21 33	21 47	20 14	3 0	5 19	
F 24	12 38	20 19	2 48	13 57	0n 4	22 15	1 6	24 51	1 25	6 47	1 33	2 24	2 35	23 1	0 5	0 34	1 23	0 10	15 37	21 33	21 47	20 12	2 59	5 19	
S 25	12 57	18 9	3 38	14 48	0 15	22 30	1 9	24 51	1 25	6 45	1 33	2 26	2 35	23 1	0 5	0 35	1 23	0 11	15 37	21 33	21 47	20 11	2 58	5 19	
S 26	13 17	15 12	4 20	15 39	0 26	22 45	1 11	24 52	1 25	6 42	1 33	2 27	2 35	23 1	0 5	0 36	1 24	0 11	15 37	21 33	21 46	20 10	2 57	5 20	
M27	13 36	11 36	4 51	16 28	0 36	22 59	1 14	24 52	1 24	6 40	1 33	2 28	2 35	23 2	0 5	0 37	1 24	0 11	15 37	21 33	21 46	20 8	2 55	5 20	
T 28	13 55	7 28	5 9	17 16	0 47	23 13	1 17	24 52	1 24	6 37	1 33	2 29	2 34	23 2	0 5	0 37	1 24	0 12	15 37	21 33	21 45	20 7	2 54	5 20	
W29	14 14	2 56	5 13	18 2	0 57	23 26	1 19	24 52	1 24	6 34	1 33	2 30	2 34	23 2	0 5	0 38	1 24	0 12	15 37	21 33	21 45	20 6	2 53	5 20	
T 30	14n33	1s50	5s 2	18n46	1n 7	23n38	1n22	24n51	1n24	6s32	1n32	2n31	2n34	23n 2	0n 5	0n39	1s24	0n13	15s37	21s32	21s44	20n 4	2s52	5n20	

ASTRODIENST EPHEMERIS for the year 1863
geocentric

MAY 1863

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Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	14 33 43	10♈ 6'29	6♊15	21♈45	13♊27	1♌51	20°R15	29°R32	18♊27	4♑53	10♈50	7°R 9	8♌26	12♓ 8	10♈ 4	F 1
S 2	14 37 39	11° 4'39	19°52	23°45	14°39	2°28	20♊ 8	29♎29	18°30	4°55	10°51	7♌ 5	8°22	12°15	10° 6	S 2
S 3	14 41 36	12° 2'46	3♌50	25°43	15°50	3° 5	20° 1	29°26	18°33	4°57	10°53	7° 2	8°19	12°21	10° 9	S 3
M 4	14 45 32	13° 0'52	18° 6	27°38	17° 1	3°41	19°55	29°23	18°36	4°59	10°54	7° 0	8°16	12°28	10°11	M 4
T 5	14 49 29	13°58'56	2♌35	29°31	18°13	4°18	19°48	29°21	18°39	5° 1	10°56	6°D59	8°13	12°35	10°13	T 5
W 6	14 53 25	14°56'59	17°10	1♊20	19°24	4°55	19°42	29°18	18°42	5° 2	10°57	6°59	8°10	12°41	10°15	W 6
T 7	14 57 22	15°55'00	1♌46	3° 6	20°35	5°32	19°35	29°16	18°45	5° 4	10°58	7° 0	8° 6	12°48	10°17	T 7
F 8	15 1 18	16°53'00	16°17	4°49	21°46	6° 8	19°29	29°13	18°48	5° 6	11° 0	7° 1	8° 3	12°55	10°19	F 8
S 9	15 5 15	17°50'59	0♊40	6°29	22°57	6°45	19°23	29°11	18°51	5° 8	11° 1	7° 3	8° 0	13° 1	10°21	S 9
S 10	15 9 12	18°48'56	14°51	8° 5	24° 8	7°22	19°17	29° 9	18°55	5°10	11° 2	7°R 3	7°57	13° 8	10°23	S 10
M 11	15 13 8	19°46'52	28°49	9°38	25°19	7°59	19°12	29° 6	18°58	5°11	11° 4	7° 3	7°54	13°15	10°25	M 11
T 12	15 17 5	20°44'47	12♈33	11° 7	26°29	8°36	19° 6	29° 4	19° 1	5°13	11° 5	7° 2	7°51	13°21	10°27	T 12
W 13	15 21 1	21°42'40	26° 2	12°32	27°40	9°13	19° 0	29° 2	19° 4	5°15	11° 6	7° 1	7°47	13°28	10°29	W 13
T 14	15 24 58	22°40'32	9♑16	13°54	28°51	9°49	18°55	29° 1	19° 8	5°16	11° 8	6°59	7°44	13°35	10°31	T 14
F 15	15 28 54	23°38'23	22°16	15°11	0♓ 1	10°26	18°50	28°59	19°11	5°18	11° 9	6°57	7°41	13°41	10°32	F 15
S 16	15 32 51	24°36'13	5♊ 2	16°25	1°12	11° 3	18°44	28°57	19°14	5°20	11°10	6°55	7°38	13°48	10°34	S 16
S 17	15 36 47	25°34'01	17°35	17°35	2°22	11°40	18°39	28°56	19°17	5°21	11°12	6°54	7°35	13°55	10°36	S 17
M 18	15 40 44	26°31'48	29°55	18°41	3°32	12°17	18°35	28°54	19°21	5°23	11°13	6°53	7°31	14° 1	10°37	M 18
T 19	15 44 41	27°29'33	12♊ 5	19°44	4°42	12°54	18°30	28°53	19°24	5°25	11°14	6°D53	7°28	14° 8	10°39	T 19
W 20	15 48 37	28°27'18	24° 6	20°41	5°52	13°31	18°25	28°51	19°28	5°26	11°16	6°54	7°25	14°15	10°40	W 20
T 21	15 52 34	29°25'00	5♓59	21°35	7° 2	14° 8	18°21	28°50	19°31	5°28	11°17	6°54	7°22	14°22	10°42	T 21
F 22	15 56 30	0♊22'42	17°49	22°25	8°12	14°45	18°17	28°49	19°34	5°29	11°18	6°55	7°19	14°28	10°43	F 22
S 23	16 0 27	1°20'21	29°39	23°10	9°22	15°22	18°13	28°48	19°38	5°31	11°20	6°56	7°16	14°35	10°44	S 23
S 24	16 4 23	2°18'00	11♊31	23°51	10°32	15°59	18° 9	28°47	19°41	5°32	11°21	6°56	7°12	14°42	10°46	S 24
M 25	16 8 20	3°15'37	23°32	24°27	11°41	16°35	18° 5	28°47	19°45	5°33	11°22	6°57	7° 9	14°48	10°47	M 25
T 26	16 12 16	4°13'12	5♎44	24°59	12°51	17°12	18° 2	28°46	19°48	5°35	11°23	6°R57	7° 6	14°55	10°48	T 26
W 27	16 16 13	5°10'46	18°14	25°27	14° 0	17°49	17°58	28°45	19°52	5°36	11°25	6°57	7° 3	15° 2	10°49	W 27
T 28	16 20 10	6° 8'18	1♌ 3	25°49	15° 9	18°26	17°55	28°45	19°55	5°38	11°26	6°56	7° 0	15° 8	10°50	T 28
F 29	16 24 6	7° 5'49	14°17	26° 7	16°19	19° 3	17°52	28°45	19°59	5°39	11°27	6°D56	6°57	15°15	10°51	F 29
S 30	16 28 3	8° 3'19	27°56	26°21	17°28	19°40	17°49	28°44	20° 2	5°40	11°28	6°57	6°53	15°22	10°52	S 30
S 31	16 31 59	9♊ 0'48	12♌ 0	26♊30	18♓37	20♓17	17♌46	28♎44	20♊ 6	5♑41	11♊30	6♌57	6♌50	15♓28	10♈53	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	14n52	6s41	4s34	19n28	1n17	23n50	1n24	24n51	1n24	6s30	1n32	2n33	2n34	23n 3	0n 5	0n40	1s24	0n13	15s37	21s31	21s44	20n 3	2s51	5n21			
S 2	15 10	11 20	3 51	20 7	1 27	24 1	1 27	24 50	1 24	6 27	1 32	2 34	2 34	23 3	0 5	0 40	1 24	0 14	15 37	21 31	21 43	20 2	2 50	5 21			
S 3	15 28	15 30	2 52	20 45	1 35	24 11	1 29	24 49	1 24	6 25	1 32	2 35	2 34	23 3	0 5	0 41	1 24	0 14	15 37	21 30	21 43	20 0	2 49	5 21			
M 4	15 45	18 52	1 42	21 20	1 44	24 21	1 32	24 48	1 24	6 22	1 32	2 35	2 34	23 3	0 5	0 42	1 24	0 14	15 37	21 30	21 42	19 59	2 48	5 21			
T 5	16 3	21 5	0 24	21 52	1 51	24 30	1 34	24 47	1 24	6 20	1 32	2 36	2 33	23 4	0 5	0 43	1 24	0 15	15 37	21 29	21 42	19 58	2 47	5 21			
W 6	16 20	21 55	0n56	22 22	1 58	24 38	1 36	24 46	1 24	6 18	1 32	2 37	2 33	23 4	0 5	0 43	1 24	0 15	15 37	21 30	21 41	19 56	2 46	5 22			
T 7	16 37	21 14	2 12	22 50	2 4	24 46	1 39	24 44	1 24	6 16	1 31	2 38	2 33	23 4	0 5	0 44	1 24	0 16	15 37	21 30	21 40	19 55	2 45	5 22			
F 8	16 53	19 9	3 20	23 15	2 10	24 53	1 41	24 42	1 24	6 13	1 31	2 39	2 33	23 4	0 5	0 45	1 24	0 16	15 37	21 30	21 40	19 54	2 44	5 22			
S 9	17 10	15 53	4 15	23 37	2 15	24 59	1 43	24 40	1 23	6 11	1 31	2 40	2 33	23 5	0 5	0 45	1 24	0 16	15 37	21 30	21 39	19 52	2 43	5 22			
S 10	17 26	11 43	4 53	23 57	2 19	25 5	1 45	24 38	1 23	6 9	1 31	2 40	2 33	23 5	0 5	0 46	1 24	0 17	15 37	21 30	21 39	19 51	2 42	5 23			
M11	17 42	7 0	5 13	24 15	2 22	25 9	1 47	24 36	1 23	6 7	1 31	2 41	2 32	23 5	0 6	0 47	1 24	0 17	15 37	21 30	21 38	19 50	2 41	5 23			
T 12	17 57	2 1	5 14	24 30	2 24	25 14	1 49	24 34	1 23	6 5	1 31	2 42	2 32	23 6	0 6	0 47	1 24	0 17	15 37	21 30	21 38	19 48	2 40	5 23			
W13	18 12	2n59	4 59	24 43	2 25	25 17	1 51	24 31	1 23	6 3	1 30	2 42	2 32	23 6	0 6	0 48	1 24	0 18	15 37	21 30	21 37	19 47	2 39	5 23			
T 14	18 27	7 46	4 27	24 54	2 26	25 20	1 53	24 28	1 23	6 1	1 30	2 43	2 32	23 6	0 6	0 49	1 24	0 18	15 37	21 29	21 37	19 46	2 38	5 24			
F 15	18 42	12 7	3 43	25 3	2 25	25 22	1 55	24 25	1 23	6 0	1 30	2 43	2 32	23 6	0 6	0 49	1 24	0 19	15 37	21 29	21 36	19 44	2 37	5 24			
S 16	18 56	15 50	2 47	25 9	2 24	25 23	1 56	24 22	1 23	5 58	1 30	2 44	2 31	23 7	0 6	0 50	1 24	0 19	15 37	21 29	21 36	19 43	2 36	5 24			
S 17	19 10	18 46	1 45	25 14	2 22	25 24	1 58	24 19	1 23	5 56	1 30	2 44	2 31	23 7	0 6	0 50	1 24	0 19	15 37	21 29	21 35	19 41	2 36	5 24			
M18	19 24	20 47	0 39	25 17	2 19	25 24	2 0	24 15	1 22	5 55	1 29	2 45	2 31	23 7	0 6	0 51	1 24	0 20	15 37	21 29	21 35	19 40	2 35	5 25			
T 19	19 37	21 47	0s29	25 18	2 15	25 23	2 1	24 12	1 22	5 53	1 29	2 45	2 31	23 7	0 6	0 52	1 24	0 20	15 37	21 29	21 34	19 39	2 34	5 25			
W20	19 50	21 46	1 34	25 17	2 10	25 22	2 2	24 8	1 22	5 51	1 29	2 45	2 31	23 8	0 6	0 52	1 24	0 20	15 37	21 29	21 34	19 37	2 33	5 25			
T 21	20 2	20 45	2 35	25 15	2 4	25 20	2 4	24 4	1 22	5 50	1 29	2 46	2 30	23 8	0 6	0 53	1 24	0 20	15 37	21 29	21 33	19 36	2 32	5 25			
F 22	20 15	18 50	3 28	25 11	1 57	25 17	2 5	24 0	1 22	5 49	1 28	2 46	2 30	23 8	0 6	0 53	1 24	0 21	15 37	21 29	21 33	19 34	2 32	5 26			
S 23	20 27	16 7	4 13	25 6	1 49	25 13	2 6	23 55	1 22	5 47	1 28	2 46	2 30	23 9	0 6	0 54	1 25	0 21	15 37	21 29	21 32	19 33	2 31	5 26			
S 24	20 38	12 44	4 47	24 59	1 40	25 9	2 7	23 51	1 22	5 46	1 28	2 46	2 30	23 9	0 6	0 54	1 25	0 21	15 37	21 29	21 32	19 32	2 30	5 26			
M25	20 49	8 49	5 9	24 51	1 31	25 4	2 8	23 46	1 21	5 45	1 28	2 46	2 30	23 9	0 6	0 55	1 25	0 22	15 37	21 29	21 31	19 30	2 30	5 26			
T 26	21 0	4 29	5 18	24 42	1 20	24 59	2 9	23 42	1 21	5 44	1 27	2 46	2 29	23 9	0 6	0 55	1 25	0 22	15 38	21 29	21 31	19 29	2 29	5 27			
W27	21 11	0s 7	5 11	24 31	1 9	24 53	2 10	23 37	1 21	5 43	1 27	2 46	2 29	23 10	0 6	0 56	1 25	0 22	15 38	21 29	21 30	19 27	2 28	5 27			
T 28	21 21	4 51	4 50	24 20	0 56	24 46	2 11	23 31	1 21	5 42	1 27	2 46	2 29	23 10	0 6	0 56	1 25	0 22	15 38	21 29	21 30	19 26	2 28	5 27			
F 29	21 31	9 31	4 13	24 7	0 43	24 38	2 12	23 26	1 21	5 41	1 27	2 46	2 29	23 10	0 6	0 57	1 25	0 23	15 38	21 29	21 29	19 25	2 27	5 27			
S 30	21 40	13 52	3 20	23 54	0 30	24 30	2 12	23 21	1 21	5 40	1 26	2 46	2 28	23 11	0 6	0 57	1 25	0 23	15 38	21 29	21 29	19 23	2 27	5 28			
S 31	21n49	17s35	2s14	23n40	0n15	24n21	2n13	23n15	1n21	5s39	1n26	2n46	2n28	23n11	0n 6	0n58	1s25	0n23	15s38	21s29	21s28	19n22	2s26	5n28			

ASTRODIENST EPHEMERIS for the year 1863

geocentric

JUNE 1863

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 35 56	9II58'15	26III28	26°R34	19°545	20°554	17°R44	28°D44	20II 9	5°V43	11°831	6°575	6°575	15°535	10°553	M 1
T 2	16 39 52	10°55'42	11°51'13	26II33	20°54	21°31	17°41	28°D44	20°13	5°44	11°32	6°R57	6°44	15°42	10°54	T 2
W 3	16 43 49	11°53'07	26°10	26°28	22° 3	22° 8	17°39	28°44	20°16	5°45	11°33	6°57	6°41	15°48	10°55	W 3
T 4	16 47 45	12°50'32	11°51'10	26°19	23°11	22°45	17°37	28°44	20°20	5°46	11°35	6°56	6°37	15°55	10°55	T 4
F 5	16 51 42	13°47'56	26° 5	26° 5	24°19	23°22	17°35	28°45	20°23	5°47	11°36	6°56	6°34	16° 2	10°56	F 5
S 6	16 55 39	14°45'19	10°54'48	25°48	25°28	23°59	17°34	28°45	20°27	5°48	11°37	6°55	6°31	16° 8	10°57	S 6
S 7	16 59 35	15°42'41	25°12	25°27	26°36	24°36	17°32	28°46	20°30	5°49	11°38	6°54	6°28	16°15	10°57	S 7
M 8	17 3 32	16°40'03	9°16	25° 3	27°44	25°13	17°31	28°46	20°34	5°50	11°39	6°54	6°25	16°22	10°57	M 8
T 9	17 7 28	17°37'25	22°57	24°36	28°51	25°51	17°30	28°47	20°37	5°51	11°40	6°D54	6°22	16°28	10°58	T 9
W10	17 11 25	18°34'46	6°V17	24° 7	29°59	26°28	17°29	28°48	20°41	5°52	11°41	6°54	6°18	16°35	10°58	W10
T 11	17 15 21	19°32'06	19°17	23°35	1°18 6	27° 5	17°28	28°49	20°45	5°53	11°43	6°55	6°15	16°42	10°58	T 11
F 12	17 19 18	20°29'26	2°8 0	23° 2	2°14	27°42	17°28	28°50	20°48	5°54	11°44	6°56	6°12	16°48	10°58	F 12
S 13	17 23 14	21°26'46	14°28	22°29	3°21	28°19	17°27	28°51	20°52	5°55	11°45	6°57	6° 9	16°55	10°58	S 13
S 14	17 27 11	22°24'05	26°45	21°55	4°28	28°56	17°27	28°52	20°55	5°56	11°46	6°58	6° 6	17° 2	10°59	S 14
M15	17 31 8	23°21'24	8°II51	21°21	5°35	29°33	17°D27	28°54	20°59	5°57	11°47	6°R58	6° 3	17° 8	10°59	M15
T 16	17 35 4	24°18'42	20°50	20°49	6°42	0°10 10	17°27	28°55	21° 2	5°58	11°48	6°58	5°59	17°15	10°58	T 16
W17	17 39 1	25°16'00	2°544	20°17	7°48	0°47	17°28	28°57	21° 6	5°58	11°49	6°56	5°56	17°22	10°58	W17
T 18	17 42 57	26°13'17	14°34	19°48	8°55	1°25	17°28	28°59	21°10	5°59	11°50	6°54	5°53	17°28	10°58	T 18
F 19	17 46 54	27°10'33	26°23	19°21	10° 1	2° 2	17°29	29° 0	21°13	6° 0	11°51	6°51	5°50	17°35	10°58	F 19
S 20	17 50 50	28° 7'49	8°14	18°57	11° 7	2°39	17°30	29° 2	21°17	6° 0	11°52	6°48	5°47	17°42	10°58	S 20
S 21	17 54 47	29° 5'04	20° 8	18°37	12°13	3°16	17°31	29° 4	21°20	6° 1	11°53	6°44	5°43	17°49	10°57	S 21
M22	17 58 43	0°52'19	2°10 10	18°20	13°19	3°53	17°32	29° 6	21°24	6° 2	11°54	6°41	5°40	17°55	10°57	M22
T 23	18 2 40	0°59'33	14°22	18° 7	14°25	4°31	17°33	29° 8	21°27	6° 2	11°55	6°39	5°37	18° 2	10°56	T 23
W24	18 6 37	1°56'47	2°49	17°58	15°30	5° 8	17°35	29°10	21°31	6° 3	11°56	6°D38	5°34	18° 9	10°56	W24
T 25	18 10 33	2°54'00	9°24 34	17°D54	16°35	5°45	17°37	29°13	21°34	6° 3	11°57	6°38	5°31	18°15	10°55	T 25
F 26	18 14 30	3°51'12	22°42	17°55	17°40	6°22	17°39	29°15	21°38	6° 4	11°58	6°39	5°28	18°22	10°55	F 26
S 27	18 18 26	4°48'24	6°15	18° 0	18°45	7° 0	17°41	29°18	21°41	6° 4	11°59	6°41	5°24	18°29	10°54	S 27
S 28	18 22 23	5°45'35	20°15	18°10	19°49	7°37	17°43	29°20	21°45	6° 5	12° 0	6°42	5°21	18°35	10°53	S 28
M29	18 26 19	6°42'46	4°41	18°25	20°54	8°14	17°45	29°23	21°48	6° 5	12° 0	6°R43	5°18	18°42	10°52	M29
T 30	18 30 16	7°53'57	19°30	18°II45	21°158	8°151	17°48	29°26	21°52	6°V 5	12°8 1	6°5742	5°15	18°549	10°52	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
M 1	21n58	20s19	0s58	23n24	0s 0	24n12	2n13	23n 9	1n20	5s38	1n26	2n46	2n28	23n11	0n 6	0n58	1s25	0n23	15s38	21s29	21s27	19n20	2s25	5n28			
T 2	22 6	21 45	0n24	23 9	0 16	24 1	2 13	23 3	1 20	5 38	1 26	2 46	2 28	23 11	0 6	0 59	1 25	0 24	15 38	21 29	21 27	19 19	2 25	5 28			
W 3	22 14	21 39	1 45	22 52	0 32	23 51	2 13	22 57	1 20	5 37	1 25	2 45	2 28	23 12	0 6	0 59	1 25	0 24	15 38	21 29	21 26	19 17	2 24	5 29			
T 4	22 21	20 1	2 59	22 35	0 49	23 39	2 14	22 51	1 20	5 37	1 25	2 45	2 27	23 12	0 6	0 59	1 25	0 24	15 39	21 29	21 26	19 16	2 24	5 29			
F 5	22 28	17 1	4 0	22 18	1 6	23 27	2 13	22 44	1 20	5 36	1 25	2 45	2 27	23 12	0 6	1 0	1 25	0 24	15 39	21 29	21 25	19 14	2 23	5 29			
S 6	22 35	12 58	4 45	22 0	1 23	23 15	2 13	22 38	1 20	5 36	1 25	2 44	2 27	23 12	0 6	1 0	1 25	0 24	15 39	21 29	21 25	19 13	2 23	5 30			
S 7	22 41	8 15	5 11	21 42	1 41	23 2	2 13	22 31	1 19	5 35	1 24	2 44	2 27	23 13	0 6	1 1	1 25	0 25	15 39	21 29	21 24	19 12	2 23	5 30			
M 8	22 47	3 12	5 17	21 24	1 58	22 48	2 13	22 24	1 19	5 35	1 24	2 44	2 26	23 13	0 6	1 1	1 25	0 25	15 39	21 29	21 24	19 10	2 22	5 30			
T 9	22 53	1n52	5 5	21 6	2 15	22 34	2 12	22 17	1 19	5 35	1 24	2 43	2 26	23 13	0 6	1 1	1 25	0 25	15 39	21 29	21 23	19 9	2 22	5 30			
W10	22 58	6 44	4 37	20 48	2 31	22 19	2 12	22 10	1 19	5 35	1 24	2 43	2 26	23 13	0 6	1 2	1 25	0 25	15 40	21 29	21 23	19 7	2 21	5 31			
T 11	23 3	11 10	3 55	20 31	2 47	22 3	2 11	22 3	1 19	5 35	1 23	2 42	2 26	23 14	0 6	1 2	1 25	0 25	15 40	21 29	21 22	19 6	2 21	5 31			
F 12	23 7	15 1	3 2	20 14	3 2	21 48	2 10	21 55	1 18	5 35	1 23	2 41	2 26	23 14	0 6	1 2	1 26	0 25	15 40	21 29	21 21	19 4	2 21	5 31			
S 13	23 11	18 7	2 1	19 58	3 17	21 31	2 10	21 47	1 18	5 35	1 23	2 41	2 25	23 14	0 6	1 3	1 26	0 26	15 40	21 29	21 21	19 3	2 20	5 31			
S 14	23 14	20 21	0 56	19 43	3 30	21 14	2 9	21 40	1 18	5 35	1 23	2 40	2 25	23 14	0 6	1 3	1 26	0 26	15 40	21 29	21 20	19 1	2 20	5 32			
M15	23 17	21 37	0s10	19 29	3 42	20 57	2 7	21 32	1 18	5 35	1 22	2 39	2 25	23 15	0 6	1 3	1 26	0 26	15 40	21 29	21 20	19 0	2 20	5 32			
T 16	23 20	21 53	1 16	19 15	3 53	20 39	2 6	21 23	1 18	5 36	1 22	2 38	2 25	23 15	0 6	1 3	1 26	0 26	15 41	21 29	21 19	18 58	2 20	5 32			
W17	23 22	21 8	2 18	19 4	4 3	20 20	2 5	21 15	1 17	5 36	1 22	2 38	2 24	23 15	0 6	1 4	1 26	0 26	15 41	21 29	21 19	18 57	2 20	5 32			
T 18	23 24	19 28	3 13	18 53	4 11	20 1	2 3	21 7	1 17	5 36	1 21	2 37	2 24	23 15	0 6	1 4	1 26	0 26	15 41	21 29	21 18	18 55	2 19	5 33			
F 19	23 26	16 58	4 0	18 44	4 18	19 42	2 2	20 58	1 17	5 37	1 21	2 36	2 24	23 16	0 6	1 4	1 26	0 26	15 41	21 28	21 18	18 54	2 19	5 33			
S 20	23 27	13 46	4 36	18 37	4 24	19 22	2 0	20 50	1 17	5 38	1 21	2 35	2 24	23 16	0 6	1 4	1 26	0 26	15 41	21 28	21 17	18 52	2 19	5 33			
S 21	23 27	10 1	5 1	18 31	4 28	19 2	1 58	20 41	1 17	5 38	1 21	2 34	2 24	23 16	0 6	1 5	1 26	0 26	15 42	21 27	21 17	18 51	2 19	5 34			
M22	23 27	5 50	5 13	18 27	4 31	18 41	1 56	20 32	1 16	5 39	1 20	2 33	2 23	23 16	0 6	1 5	1 26	0 27	15 42	21 26	21 16	18 49	2 19	5 34			
T 23	23 27	1 22	5 12	18 24	4 32	18 20	1 54	20 23	1 16	5 40	1 20	2 32	2 23	23 17	0 6	1 5	1 26	0 27	15 42	21 26	21 15	18 48	2 19	5 34			
W24	23 26	3s15	4 55	18 24	4 32	17 59	1 52	20 14	1 16	5 41	1 20	2 31	2 23	23 17	0 6	1 5	1 26	0 27	15 42	21 26	21 15	18 46	2 19	5 34			
T 25	23 25	7 50	4 24	18 25	4 31	17 37	1 50	20 4	1 16	5 41	1 20	2 30	2 23	23 17	0 6	1 5	1 26	0 27	15 43	21 26	21 14	18 45	2 19	5 35			
F 26	23 24	12 13	3 39	18 27	4 28	17 15	1 47	19 55	1 16	5 42	1 19	2 28	2 22	23 17	0 6	1 5	1 26	0 27	15 43	21 26	21 14	18 43	2 19	5 35			
S 27	23 22	16 7	2 39	18 32	4 24	16 52	1 45	19 45	1 15	5 44	1 19	2 27	2 22	23 18	0 6	1 5	1 26	0 27	15 43	21 26	21 13	18 42	2 19	5 35			
S 28	23 20	19 15	1 29	18 37	4 19	16 30	1 42	19 35	1 15	5 45	1 19	2 26	2 22	23 18	0 6	1 6	1 26	0 27	15 43	21 27	21 13	18 40	2 19	5 35			
M29	23 17	21 16	0 11	18 45	4 13	16 6	1 39	19 25	1 15	5 46	1 18	2 25	2 22	23 18	0 6	1 6	1 26	0 27	15 43	21 27	21 12	18 39	2 19	5 36			
T 30	23n14	21s53	1n10	18n53	4s 6	15n43	1n36	19n15	1n15	5s47	1n18	2n23	2n22	23n18	0n 6	1n 6	1s27	0n27	15s44	21s27	21s11	18n37	2s19	5n36			

ASTRODIENST EPHEMERIS for the year 1863

geocentric

JULY 1863

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 34 12	8°37'08	4°36	19°11 9	23°02 2	9°02'29	17°51	29°02'29	21°11'55	6°06 6	12°08 2	6°04'40	5°07'12	18°05'55	10°08'51	W 1
T 2	18 38 9	9°34'19	19°50	19°39	24° 5	10° 6	17°54	29°32	21°59	6° 6	12° 3	6°03'37	5° 9	19° 2	10°08'50	T 2
F 3	18 42 6	10°31'29	5°22 2	20°13	25° 9	10°43	17°57	29°35	22° 2	6° 6	12° 4	6°03'33	5° 5	19° 9	10°49	F 3
S 4	18 46 2	11°28'40	20° 2	20°52	26°12	11°21	18° 0	29°38	22° 5	6° 6	12° 5	6°02'28	5° 2	19°15	10°48	S 4
S 5	18 49 59	12°25'51	4°42	21°36	27°14	11°58	18° 4	29°41	22° 9	6° 6	12° 5	6°02'23	4°59	19°22	10°47	S 5
M 6	18 53 55	13°23'02	18°57	22°25	28°17	12°35	18° 7	29°45	22°12	6° 7	12° 6	6°02'20	4°56	19°29	10°45	M 6
T 7	18 57 52	14°20'13	2°04'47	23°19	29°19	13°13	18°11	29°48	22°16	6° 7	12° 7	6°01'17	4°53	19°35	10°44	T 7
W 8	19 1 48	15°17'25	16° 4	24°17	0°02'21	13°50	18°15	29°51	22°19	6° 7	12° 8	6°01'17	4°49	19°42	10°43	W 8
T 9	19 5 45	16°14'38	28°59	25°19	1°23	14°27	18°19	29°55	22°22	6° 7	12° 8	6°01'17	4°46	19°49	10°42	T 9
F 10	19 9 41	17°11'50	11°08'34	26°26	2°24	15° 5	18°23	29°59	22°26	6°07 7	12° 9	6°01'19	4°43	19°55	10°40	F 10
S 11	19 13 38	18° 9'04	23°52	27°38	3°26	15°42	18°28	0°02'29	22°29	6° 7	12°10	6°02'20	4°40	20° 2	10°39	S 11
S 12	19 17 35	19° 6'18	5°11'58	28°54	4°26	16°20	18°32	0° 6	22°32	6° 7	12°10	6°02'21	4°37	20° 9	10°37	S 12
M13	19 21 31	20° 3'32	17°55	0°02'14	5°27	16°57	18°37	0°10	22°36	6° 7	12°11	6°02'20	4°34	20°16	10°36	M13
T 14	19 25 28	21° 0'47	29°47	1°38	6°27	17°35	18°42	0°14	22°39	6° 7	12°11	6°01'18	4°30	20°22	10°34	T 14
W15	19 29 24	21°58'02	11°08'36	3° 6	7°27	18°12	18°47	0°18	22°42	6° 6	12°12	6°01'13	4°27	20°29	10°33	W15
T 16	19 33 21	22°55'18	23°25	4°39	8°26	18°50	18°52	0°22	22°45	6° 6	12°13	6° 6	4°24	20°36	10°31	T 16
F 17	19 37 17	23°52'34	5°02'16	6°15	9°26	19°27	18°58	0°27	22°48	6° 6	12°13	5°05'58	4°21	20°42	10°29	F 17
S 18	19 41 14	24°49'50	17°11	7°56	10°24	20° 5	19° 3	0°31	22°52	6° 6	12°14	5°04'49	4°18	20°49	10°27	S 18
S 19	19 45 11	25°47'07	29°10	9°39	11°23	20°42	19° 9	0°35	22°55	6° 5	12°14	5°04'40	4°15	20°56	10°26	S 19
M20	19 49 7	26°44'24	11°02'17	11°26	12°21	21°20	19°14	0°40	22°58	6° 5	12°15	5°03'31	4°11	21° 2	10°24	M20
T 21	19 53 4	27°41'41	23°33	13°17	13°18	21°57	19°20	0°44	23° 1	6° 5	12°15	5°02'25	4° 8	21° 9	10°22	T 21
W22	19 57 0	28°38'59	6°02'2	15°10	14°15	22°35	19°27	0°49	23° 4	6° 4	12°16	5°02'20	4° 5	21°16	10°20	W22
T 23	20 0 57	29°36'17	18°46	17° 6	15°12	23°12	19°33	0°54	23° 7	6° 4	12°16	5°01'18	4° 2	21°22	10°18	T 23
F 24	20 4 53	0°02'33'36	1°02'49	19° 4	16° 8	23°50	19°39	0°59	23°10	6° 4	12°16	5°01'17	3°59	21°29	10°16	F 24
S 25	20 8 50	1°30'55	15°14	21° 5	17° 4	24°28	19°46	1° 3	23°13	6° 3	12°17	5°01'18	3°55	21°36	10°14	S 25
S 26	20 12 46	2°28'14	29° 4	23° 7	17°59	25° 5	19°52	1° 8	23°16	6° 3	12°17	5°01'18	3°52	21°42	10°12	S 26
M27	20 16 43	3°25'34	13°02'20	25°10	18°54	25°43	19°59	1°13	23°19	6° 2	12°18	5°01'18	3°49	21°49	10°10	M27
T 28	20 20 40	4°22'55	28° 0	27°15	19°48	26°21	20° 6	1°18	23°22	6° 1	12°18	5°01'16	3°46	21°56	10° 7	T 28
W29	20 24 36	5°20'16	13°03'0	29°20	20°42	26°58	20°13	1°23	23°25	6° 1	12°18	5°01'12	3°43	22° 3	10° 5	W29
T 30	20 28 33	6°17'37	28°13	1°02'26	21°35	27°36	20°20	1°29	23°28	6° 0	12°19	5° 6	3°40	22° 9	10° 3	T 30
F 31	20 32 29	7°02'15'00	13°02'28	3°02'32	22°02'27	28°02'14	20°02'27	1°02'34	23°30	6°06 0	12°08'19	4°02'57	3°02'36	22°02'16	10°02'1	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	23n11	20s56	2n27	19n 3	3s59	15n19	1n33	19n 5	1n14	5s48	1n18	2n22	2n21	23n18	0n 6	1n 6
T 2	23 7	18 28	3 34	19 14	3 50	14 55	1 30	18 55	1 14	5 50	1 18	2 21	2 21	23 19	0 6	1 6
F 3	23 2	14 43	4 26	19 26	3 40	14 31	1 27	18 45	1 14	5 51	1 17	2 19	2 21	23 19	0 6	1 6
S 4	22 58	10 5	4 59	19 39	3 30	14 6	1 23	18 34	1 14	5 53	1 17	2 18	2 21	23 19	0 6	1 6
S 5	22 52	4 57	5 11	19 52	3 20	13 41	1 20	18 23	1 13	5 54	1 17	2 16	2 21	23 19	0 6	1 6
M 6	22 47	0n17	5 4	20 6	3 8	13 16	1 16	18 13	1 13	5 56	1 17	2 15	2 20	23 20	0 6	1 6
T 7	22 41	5 21	4 39	20 21	2 57	12 50	1 12	18 2	1 13	5 58	1 16	2 13	2 20	23 20	0 6	1 6
W 8	22 35	10 1	4 0	20 36	2 44	12 25	1 8	17 51	1 13	5 59	1 16	2 12	2 20	23 20	0 6	1 6
T 9	22 28	14 4	3 9	20 51	2 32	11 59	1 4	17 40	1 12	6 1	1 16	2 10	2 20	23 20	0 6	1 6
F 10	22 21	17 23	2 11	21 6	2 19	11 33	0 59	17 28	1 12	6 3	1 16	2 9	2 20	23 20	0 6	1 6
S 11	22 13	19 50	1 7	21 20	2 6	11 7	0 55	17 17	1 12	6 5	1 15	2 7	2 19	23 21	0 6	1 6
S 12	22 6	21 21	0 2	21 35	1 52	10 40	0 51	17 6	1 12	6 7	1 15	2 5	2 19	23 21	0 6	1 6
M13	21 57	21 52	1s 2	21 48	1 39	10 14	0 46	16 54	1 11	6 9	1 15	2 3	2 19	23 21	0 6	1 6
T 14	21 49	21 24	2 3	22 1	1 26	9 47	0 41	16 42	1 11	6 11	1 15	2 2	2 19	23 21	0 6	1 6
W15	21 40	19 59	2 59	22 13	1 12	9 20	0 36	16 31	1 11	6 13	1 14	2 0	2 19	23 21	0 6	1 5
T 16	21 30	17 42	3 46	22 34	0 49	8 53	0 31	16 19	1 11	6 15	1 14	1 58	2 18	23 22	0 6	1 5
F 17	21 21	14 41	4 24	22 23	0 45	8 26	0 26	16 7	1 10	6 18	1 14	1 56	2 18	23 22	0 6	1 5
S 18	21 11	11 5	4 51	22 41	0 32	7 59	0 20	15 55	1 10	6 20	1 14	1 54	2 18	23 22	0 6	1 5
S 19	21 0	7 1	5 5	22 47	0 19	7 32	0 15	15 42	1 10	6 22	1 13	1 52	2 18	23 22	0 6	1 5
M20	20 49	2 38	5 5	22 51	0 7	7 5	0 9	15 30	1 10	6 25	1 13	1 50	2 18	23 22	0 6	1 5
T 21	20 38	1s54	4 51	22 53	0n 5	6 37	0 3	15 18	1 9	6 27	1 13	1 48	2 17	23 22	0 6	1 4
W22	20 27	6 26	4 24	22 52	0 17	6 10	0s 3	15 5	1 9	6 30	1 13	1 46	2 17	23 23	0 6	1 4
T 23	20 15	10 48	3 43	22 49	0 28	5 42	0 9	14 52	1 9	6 32	1 12	1 44	2 17	23 23	0 6	1 4
F 24	20 3	14 46	2 50	22 44	0 38	5 15	0 15	14 40	1 8	6 35	1 12	1 42	2 17	23 23	0 6	1 4
S 25	19 50	18 6	1 46	22 36	0 48	4 47	0 21	14 27	1 8	6 37	1 12	1 40	2 17	23 23	0 6	1 4
S 26	19 37	20 30	0 33	22 25	0 57	4 20	0 28	14 14	1 8	6 40	1 12	1 38	2 17	23 23	0 6	1 3
M27	19 24	21 42	0n43	22 11	1 6	3 52	0 34	14 1	1 8	6 43	1 11	1 36	2 16	23 23	0 6	1 3
T 28	19 11	21 28	1 58	21 55	1 13	3 25	0 41	13 48	1 7	6 46	1 11	1 34	2 16	23 24	0 6	1 3
W29	18 57	19 43	3 7	21 37	1 20	2 57	0 48	13 35	1 7	6 49	1 11	1 32	2 16	23 24	0 6	1 3
T 30	18 43	16 33	4 4	21 15	1 26	2 30	0 55	13 22	1 7	6 52	1 11	1 29	2 16	23 24	0 6	1 2
F 31	18n28	12s16	4n43	20n52	1n31	2n 3	1s 2	13n 8	1n 6	6s54	1n10	1n27	2n16	23n24	0n 6	1n 2

Julian Day Number = 2401687.5, Delta T = 8.86 sec

Ecliptic obliquity = 23°27'21, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°50'03, Lahiri = 21°57'03

ASTRODIENST EPHEMERIS for the year 1863

geocentric

AUGUST 1863

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 36 26	8♏12'23	28♏35	5♏37	23♏19	28♏52	20♏35	1♏39	23♏33	5♏59	12♏19	4♏48	3♏33	22♏23	9♏58	S 1
S 2	20 40 22	9° 9'47	13♏24	7°43	24°10	29°29	20°42	1°45	23°36	5♏58	12°19	4♏39	3°30	22°29	9♏56	S 2
M 3	20 44 19	10° 7'13	27°48	9°48	25° 1	0♏ 7	20°50	1°50	23°39	5°57	12°19	4°31	3°27	22°36	9°53	M 3
T 4	20 48 15	11° 4'39	11♏42	11°51	25°50	0°45	20°58	1°56	23°41	5°57	12°20	4°26	3°24	22°43	9°51	T 4
W 5	20 52 12	12° 2'07	25° 7	13°54	26°40	1°23	21° 6	2° 1	23°44	5°56	12°20	4°23	3°21	22°49	9°49	W 5
T 6	20 56 8	12°59'36	8♏ 4	15°56	27°28	2° 1	21°14	2° 7	23°47	5°55	12°20	4°D21	3°17	22°56	9°46	T 6
F 7	21 0 5	13°57'07	20°38	17°57	28°16	2°38	21°22	2°12	23°49	5°54	12°20	4°21	3°14	23° 3	9°44	F 7
S 8	21 4 2	14°54'38	2♏53	19°57	29° 3	3°16	21°30	2°18	23°52	5°53	12°20	4°R22	3°11	23° 9	9°41	S 8
S 9	21 7 58	15°52'12	14°55	21°55	29°49	3°54	21°39	2°24	23°54	5°52	12°20	4°21	3° 8	23°16	9°38	S 9
M10	21 11 55	16°49'46	26°48	23°52	0♏34	4°32	21°47	2°30	23°57	5°51	12°20	4°19	3° 5	23°23	9°36	M10
T 11	21 15 51	17°47'22	8♏37	25°47	1°18	5°10	21°56	2°36	23°59	5°51	12°20	4°14	3° 1	23°30	9°33	T 11
W12	21 19 48	18°45'00	20°26	27°41	2° 2	5°48	22° 4	2°42	24° 2	5°50	12°20	4° 7	2°58	23°36	9°31	W12
T 13	21 23 44	19°42'38	2♏17	29°33	2°44	6°26	22°13	2°48	24° 4	5°49	12°R20	3°57	2°55	23°43	9°28	T 13
F 14	21 27 41	20°40'18	14°12	1♏24	3°26	7° 4	22°22	2°54	24° 6	5°47	12°20	3°45	2°52	23°50	9°25	F 14
S 15	21 31 38	21°38'00	26°14	3°14	4° 7	7°42	22°31	3° 0	24° 9	5°46	12°20	3°32	2°49	23°56	9°22	S 15
S 16	21 35 34	22°35'42	8♏23	5° 2	4°46	8°20	22°40	3° 6	24°11	5°45	12°20	3°18	2°46	24° 3	9°20	S 16
M17	21 39 31	23°33'26	20°41	6°49	5°25	8°58	22°50	3°12	24°13	5°44	12°20	3° 6	2°42	24°10	9°17	M17
T 18	21 43 27	24°31'11	3♏ 7	8°34	6° 2	9°36	22°59	3°19	24°15	5°43	12°20	2°56	2°39	24°16	9°14	T 18
W19	21 47 24	25°28'57	15°45	10°18	6°38	10°14	23° 9	3°25	24°17	5°42	12°20	2°48	2°36	24°23	9°11	W19
T 20	21 51 20	26°26'44	28°35	12° 0	7°13	10°53	23°18	3°31	24°19	5°41	12°20	2°43	2°33	24°30	9° 9	T 20
F 21	21 55 17	27°24'33	11♏40	13°41	7°46	11°31	23°28	3°38	24°21	5°40	12°20	2°41	2°30	24°36	9° 6	F 21
S 22	21 59 13	28°22'22	25° 3	15°21	8°18	12° 9	23°38	3°44	24°23	5°38	12°19	2°40	2°27	24°43	9° 3	S 22
S 23	22 3 10	29°20'13	8♏45	16°59	8°49	12°47	23°47	3°51	24°25	5°37	12°19	2°40	2°23	24°50	9° 0	S 23
M24	22 7 6	0♏18'05	22°49	18°36	9°19	13°25	23°57	3°57	24°27	5°36	12°19	2°40	2°20	24°57	8°57	M24
T 25	22 11 3	1°15'59	7♏13	20°12	9°46	14° 4	24° 7	4° 4	24°29	5°34	12°19	2°37	2°17	25° 3	8°54	T 25
W26	22 15 0	2°13'54	21°57	21°46	10°13	14°42	24°18	4°10	24°31	5°33	12°19	2°32	2°14	25°10	8°51	W26
T 27	22 18 56	3°11'49	6♏54	23°19	10°37	15°20	24°28	4°17	24°33	5°32	12°18	2°24	2°11	25°17	8°49	T 27
F 28	22 22 53	4° 9'47	21°57	24°51	11° 0	15°58	24°38	4°24	24°35	5°30	12°18	2°14	2° 7	25°23	8°46	F 28
S 29	22 26 49	5° 7'45	6♏55	26°21	11°21	16°37	24°48	4°31	24°36	5°29	12°18	2° 3	2° 4	25°30	8°43	S 29
S 30	22 30 46	6° 5'46	21°40	27°50	11°41	17°15	24°59	4°37	24°38	5°28	12°17	1°52	2° 1	25°37	8°40	S 30
M31	22 34 42	7♏ 3'48	6♏ 3	29♏17	11♏58	17♏53	25♏ 9	4♏44	24♏39	5♏26	12♏17	1♏42	1♏58	25♏43	8♏37	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	18n14	7s15	5n 2	20n25	1n36	1n36	1s 9	12n55	1n 6	6s57	1n10	1n25	2n16	23n24	0n 6	1n 2
S 2	17 59	1 54	5 0	19 57	1 39	1 9	1 17	12 41	1 6	7 1	1 10	1 23	2 16	23 24	0 6	1 1
M 3	17 43	3n24	4 39	19 27	1 42	0 42	1 24	12 28	1 6	7 4	1 10	1 20	2 15	23 25	0 6	1 1
T 4	17 28	8 21	4 2	18 55	1 44	0 15	1 32	12 14	1 5	7 7	1 10	1 18	2 15	23 25	0 6	1 1
W 5	17 12	12 43	3 13	18 21	1 46	0s12	1 40	12 0	1 5	7 10	1 9	1 16	2 15	23 25	0 6	1 0
T 6	16 56	16 20	2 15	17 45	1 46	0 39	1 48	11 46	1 5	7 13	1 9	1 13	2 15	23 25	0 6	1 0
F 7	16 39	19 5	1 12	17 9	1 46	1 5	1 56	11 32	1 4	7 16	1 9	1 11	2 15	23 25	0 6	1 0
S 8	16 22	20 53	0 8	16 30	1 45	1 31	2 4	11 19	1 4	7 20	1 9	1 9	2 15	23 25	0 6	0 59
S 9	16 5	21 41	0s56	15 51	1 44	1 57	2 13	11 4	1 4	7 23	1 9	1 6	2 15	23 25	0 6	0 59
M10	15 48	21 29	1 56	15 11	1 42	2 23	2 21	10 50	1 3	7 26	1 8	1 4	2 14	23 25	0 6	0 58
T 11	15 31	20 20	2 51	14 30	1 40	2 49	2 30	10 36	1 3	7 30	1 8	1 1	2 14	23 26	0 6	0 58
W12	15 13	18 18	3 39	13 48	1 37	3 14	2 39	10 22	1 3	7 33	1 8	0 59	2 14	23 26	0 6	0 57
T 13	14 55	15 30	4 16	13 5	1 33	3 39	2 48	10 7	1 2	7 37	1 8	0 56	2 14	23 26	0 6	0 57
F 14	14 37	12 3	4 43	12 22	1 29	4 4	2 57	9 53	1 2	7 40	1 8	0 54	2 14	23 26	0 6	0 57
S 15	14 18	8 6	4 58	11 39	1 25	4 29	3 6	9 39	1 2	7 44	1 7	0 51	2 14	23 26	0 6	0 56
S 16	14 0	3 48	4 59	10 55	1 20	4 53	3 15	9 24	1 2	7 47	1 7	0 49	2 14	23 26	0 6	0 56
M17	13 41	0s42	4 47	10 10	1 15	5 17	3 24	9 9	1 1	7 51	1 7	0 46	2 14	23 26	0 7	0 55
T 18	13 21	5 13	4 20	9 26	1 9	5 40	3 34	8 55	1 1	7 54	1 7	0 43	2 13	23 26	0 7	0 55
W19	13 2	9 36	3 41	8 41	1 3	6 3	3 44	8 40	1 1	7 58	1 7	0 41	2 13	23 26	0 7	0 54
T 20	12 43	13 37	2 50	7 57	0 57	6 26	3 53	8 25	1 0	8 2	1 6	0 38	2 13	23 27	0 7	0 54
F 21	12 23	17 4	1 49	7 12	0 51	6 48	4 3	8 10	1 0	8 6	1 6	0 36	2 13	23 27	0 7	0 53
S 22	12 3	19 41	0 40	6 27	0 44	7 10	4 13	7 56	1 0	8 9	1 6	0 33	2 13	23 27	0 7	0 53
S 23	11 43	21 15	0n32	5 43	0 37	7 31	4 23	7 41	0 59	8 13	1 6	0 30	2 13	23 27	0 7	0 52
M24	11 22	21 31	1 44	4 58	0 30	7 52	4 33	7 26	0 59	8 17	1 6	0 28	2 13	23 27	0 7	0 52
T 25	11 2	20 24	2 52	4 4	0 23	8 12	4 43	7 11	0 59	8 21	1 6	0 25	2 13	23 27	0 7	0 51
W26	10 41	17 54	3 49	3 30	0 15	8 32	4 53	6 56	0 58	8 25	1 5	0 22	2 13	23 27	0 7	0 50
T 27	10 20	14 11	4 32	2 46	0 8	8 51	5 3	6 40	0 58	8 29	1 5	0 19	2 13	23 27	0 7	0 50
F 28	9 59	9 32	4 56	2 3	0s 0	9 10	5 14	6 25	0 58	8 33	1 5	0 17	2 12	23 27	0 7	0 49
S 29	9 38	4 20	4 59	1 20	0 8	9 27	5 24	6 10	0 57	8 36	1 5	0 14	2 12	23 27	0 7	0 49
S 30	9 17	1n 2	4 43	0 37	0 16	9 44	5 34	5 55	0 57	8 40	1 5	0 11	2 12	23 28	0 7	0 48
M31	8n55	6n13	4n 9	0s 6	0s25	10s 1	5s44	5n39	0n56	8s44	1n 5	0n 8	2n12	23n28	0n 7	0n48

Julian Day Number = 2401718.5, Delta T = 8.84 sec
 Ecliptic obliquity = 23°27'21, Nutation = 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°50'07, Lahiri = 21°57'07

ASTRODIENST EPHEMERIS for the year 1863

geocentric

SEPTEMBER 1863

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 38 39	8 ^h 15'52	20 ^h 0'0	0 ^h 43	12 ^h 14	18 ^h 32	25 ^h 20	4 ^h 51	24 ^h 41	5 ^h R25	12 ^h R16	1 ^h R35	1 ^h 55	25 ^h 50	8 ^h R34	T 1
W 2	22 42 35	8 ^h 59'58	3 ^h 28	2 ^h 0'8	12 ^h 28	19 ^h 10	25 ^h 31	4 ^h 58	24 ^h 43	5 ^h Y23	12 ^h Y16	1 ^h Y30	1 ^h 52	25 ^h 57	8 ^h Y31	W 2
T 3	22 46 32	9 ^h 58'05	16 ^h 29	3 ^h 31	12 ^h 39	19 ^h 49	25 ^h 42	5 ^h 0'5	24 ^h 44	5 ^h 22	12 ^h 16	1 ^h 28	1 ^h 48	26 ^h 0'3	8 ^h 28	T 3
F 4	22 50 29	10 ^h 56'15	29 ^h 0'5	4 ^h 53	12 ^h 49	20 ^h 27	25 ^h 52	5 ^h 12	24 ^h 45	5 ^h 21	12 ^h 15	1 ^h D27	1 ^h 45	26 ^h 10	8 ^h 25	F 4
S 5	22 54 25	11 ^h 54'27	11 ^h 22	6 ^h 14	12 ^h 56	21 ^h 0'6	26 ^h 0'3	5 ^h 19	24 ^h 47	5 ^h 19	12 ^h 15	1 ^h R27	1 ^h 42	26 ^h 17	8 ^h 22	S 5
S 6	22 58 22	12 ^h 52'41	23 ^h 24	7 ^h 33	13 ^h 0'1	21 ^h 44	26 ^h 14	5 ^h 26	24 ^h 48	5 ^h 18	12 ^h 14	1 ^h 27	1 ^h 39	26 ^h 24	8 ^h 19	S 6
M 7	23 2 18	13 ^h 50'57	5 ^h 18	8 ^h 50	13 ^h 4'0	22 ^h 23	26 ^h 26	5 ^h 33	24 ^h 49	5 ^h 16	12 ^h 14	1 ^h 25	1 ^h 36	26 ^h 30	8 ^h 17	M 7
T 8	23 6 15	14 ^h 49'15	17 ^h 0'7	10 ^h 0'6	13 ^h R 5	23 ^h 0'1	26 ^h 37	5 ^h 40	24 ^h 51	5 ^h 15	12 ^h 13	1 ^h 21	1 ^h 32	26 ^h 37	8 ^h 14	T 8
W 9	23 10 11	15 ^h 47'35	28 ^h 57	11 ^h 20	13 ^h 3'0	23 ^h 40	26 ^h 48	5 ^h 47	24 ^h 52	5 ^h 13	12 ^h 13	1 ^h 14	1 ^h 29	26 ^h 44	8 ^h 11	W 9
T 10	23 14 8	16 ^h 45'57	10 ^h 52	12 ^h 33	12 ^h 59	24 ^h 19	26 ^h 59	5 ^h 54	24 ^h 53	5 ^h 11	12 ^h 12	1 ^h 0'4	1 ^h 26	26 ^h 50	8 ^h 0'8	T 10
F 11	23 18 4	17 ^h 44'21	22 ^h 54	13 ^h 43	12 ^h 53	24 ^h 57	27 ^h 11	6 ^h 0'1	24 ^h 54	5 ^h 10	12 ^h 12	0 ^h 53	1 ^h 23	26 ^h 57	8 ^h 0'5	F 11
S 12	23 22 1	18 ^h 42'46	5 ^h 11	14 ^h 52	12 ^h 44	25 ^h 36	27 ^h 22	6 ^h 0'8	24 ^h 55	5 ^h 0'8	12 ^h 11	0 ^h 40	1 ^h 20	27 ^h 0'4	8 ^h 0'2	S 12
S 13	23 25 58	19 ^h 41'14	17 ^h 26	15 ^h 58	12 ^h 33	26 ^h 15	27 ^h 34	6 ^h 15	24 ^h 56	5 ^h 0'7	12 ^h 10	0 ^h 27	1 ^h 17	27 ^h 10	7 ^h 59	S 13
M14	23 29 54	20 ^h 39'44	29 ^h 59	17 ^h 0'3	12 ^h 20	26 ^h 54	27 ^h 45	6 ^h 23	24 ^h 57	5 ^h 0'5	12 ^h 10	0 ^h 16	1 ^h 13	27 ^h 17	7 ^h 57	M14
T 15	23 33 51	21 ^h 38'15	12 ^h 42	18 ^h 0'5	12 ^h 0'4	27 ^h 32	27 ^h 57	6 ^h 30	24 ^h 58	5 ^h 0'3	12 ^h 9'0	0 ^h 6'0	1 ^h 10	27 ^h 24	7 ^h 54	T 15
W16	23 37 47	22 ^h 36'49	25 ^h 37	19 ^h 0'5	11 ^h 46	28 ^h 11	28 ^h 0'9	6 ^h 37	24 ^h 59	5 ^h 0'2	12 ^h 8'0	29 ^h 11	1 ^h 0'7	27 ^h 31	7 ^h 51	W16
T 17	23 41 44	23 ^h 35'24	8 ^h 11	20 ^h 0'2	11 ^h 26	28 ^h 50	28 ^h 20	6 ^h 44	24 ^h 59	5 ^h 0'0	12 ^h 8'0	29 ^h 54	1 ^h 0'4	27 ^h 37	7 ^h 48	T 17
F 18	23 45 40	24 ^h 34'01	22 ^h 0'0	20 ^h 56	11 ^h 0'3	29 ^h 29	28 ^h 32	6 ^h 52	25 ^h 0'0	4 ^h 59	12 ^h 7'0	29 ^h 52	1 ^h 0'1	27 ^h 44	7 ^h 45	F 18
S 19	23 49 37	25 ^h 32'39	5 ^h 13	21 ^h 48	10 ^h 38	0 ^h 40	28 ^h 44	6 ^h 59	25 ^h 1'0	4 ^h 57	12 ^h 6'0	29 ^h D52	0 ^h 58	27 ^h 51	7 ^h 43	S 19
S 20	23 53 33	26 ^h 31'19	19 ^h 13	22 ^h 36	10 ^h 12	0 ^h 47	28 ^h 56	7 ^h 0'6	25 ^h 1'0	4 ^h 55	12 ^h 6'0	29 ^h 53	0 ^h 54	27 ^h 57	7 ^h 40	S 20
M21	23 57 30	27 ^h 30'01	3 ^h 11	23 ^h 20	9 ^h 43	1 ^h 26	29 ^h 0'8	7 ^h 14	25 ^h 2'0	4 ^h 54	12 ^h 5'0	29 ^h R53	0 ^h 51	28 ^h 0'4	7 ^h 37	M21
T 22	0 1 27	28 ^h 28'45	17 ^h 23	24 ^h 0'1	9 ^h 13	2 ^h 0'5	29 ^h 20	7 ^h 21	25 ^h 2'0	4 ^h 52	12 ^h 4'0	29 ^h 51	0 ^h 48	28 ^h 11	7 ^h 35	T 22
W23	0 5 23	29 ^h 27'30	1 ^h 22	24 ^h 38	8 ^h 41	2 ^h 44	29 ^h 32	7 ^h 28	25 ^h 3'0	4 ^h 50	12 ^h 3'0	29 ^h 47	0 ^h 45	28 ^h 17	7 ^h 32	W23
T 24	0 9 20	0 ^h 26'17	16 ^h 22	25 ^h 10	8 ^h 0'8	3 ^h 23	29 ^h 44	7 ^h 36	25 ^h 3'0	4 ^h 49	12 ^h 3'0	29 ^h 41	0 ^h 42	28 ^h 24	7 ^h 29	T 24
F 25	0 13 16	1 ^h 25'06	1 ^h 11	25 ^h 37	7 ^h 33	4 ^h 0'2	29 ^h 57	7 ^h 43	25 ^h 4'0	4 ^h 47	12 ^h 2'0	29 ^h 33	0 ^h 38	28 ^h 31	7 ^h 27	F 25
S 26	0 17 13	2 ^h 23'56	15 ^h 36	26 ^h 0'0	6 ^h 58	4 ^h 41	0 ^h 11	7 ^h 50	25 ^h 4'0	4 ^h 45	12 ^h 1'0	29 ^h 24	0 ^h 35	28 ^h 38	7 ^h 24	S 26
S 27	0 21 9	3 ^h 22'49	0 ^h 12	26 ^h 16	6 ^h 22	5 ^h 20	0 ^h 21	7 ^h 58	25 ^h 4'0	4 ^h 44	12 ^h 0'0	29 ^h 15	0 ^h 32	28 ^h 44	7 ^h 22	S 27
M28	0 25 6	4 ^h 21'43	14 ^h 12	26 ^h 27	5 ^h 45	5 ^h 59	0 ^h 33	8 ^h 0'5	25 ^h 4'0	4 ^h 42	11 ^h 59	29 ^h 0'8	0 ^h 29	28 ^h 51	7 ^h 19	M28
T 29	0 29 2	5 ^h 20'39	28 ^h 0'0	26 ^h R31	5 ^h 0'8	6 ^h 38	0 ^h 46	8 ^h 12	25 ^h 5'0	4 ^h 40	11 ^h 58	29 ^h 0'2	0 ^h 26	28 ^h 58	7 ^h 17	T 29
W30	0 32 59	6 ^h 19'38	11 ^h 12	26 ^h 29	4 ^h 31	7 ^h 17	0 ^h 18	8 ^h 20	25 ^h II 5	4 ^h Y39	11 ^h Y57	28 ^h 11	0 ^h 23	29 ^h 0'4	7 ^h 14	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
T 1	8n34	10n55	3n20	0s48	0s33	10s16	5s55	5n24	0n56	8s48	1n 4	0n 6	2n12	23n28	0n 7	0n47	1s29	0n14	16s 2	20s29	20s34	16n54	3s 3	5n43	
W 2	8 12	14 54	2 22	1 29	0 41	10 31	6 5	5 9	0 56	8 53	1 4	0 3	2 12	23 28	0 7	0 46	1 30	0 13	16 2	20 29	20 33	16 52	3 4	5 43	
T 3	7 50	18 2	1 18	2 10	0 50	10 45	6 15	4 53	0 55	8 57	1 4	0 0	2 12	23 28	0 7	0 46	1 30	0 13	16 3	20 28	20 32	16 51	3 6	5 43	
F 4	7 28	20 10	0 13	2 50	0 58	10 58	6 25	4 38	0 55	9 1	1 4	0s 3	2 12	23 28	0 7	0 45	1 30	0 13	16 3	20 28	20 32	16 49	3 7	5 43	
S 5	7 6	21 18	0s52	3 30	1 7	11 10	6 35	4 22	0 55	9 5	1 4	0 6	2 12	23 28	0 7	0 45	1 30	0 12	16 3	20 28	20 31	16 47	3 8	5 43	
S 6	6 44	21 24	1 54	4 9	1 15	11 21	6 44	4 7	0 54	9 9	1 4	0 8	2 12	23 28	0 7	0 44	1 30	0 12	16 3	20 28	20 30	16 45	3 9	5 43	
M 7	6 21	20 32	2 49	4 48	1 24	11 31	6 54	3 51	0 54	9 13	1 3	0 11	2 12	23 28	0 7	0 43	1 30	0 11	16 4	20 27	20 30	16 44	3 10	5 43	
T 8	5 59	18 46	3 37	5 25	1 33	11 40	7 3	3 35	0 54	9 17	1 3	0 14	2 12	23 28	0 7	0 43	1 30	0 11	16 4	20 27	20 29	16 42	3 11	5 43	
W 9	5 36	16 13	4 15	6 2	1 41	11 47	7 12	3 20	0 53	9 21	1 3	0 17	2 12	23 28	0 7	0 42	1 30	0 11	16 4	20 25	20 28	16 40	3 13	5 42	
T 10	5 14	12 59	4 43	6 38	1 49	11 54	7 21	3 4	0 53	9 26	1 3	0 20	2 12	23 28	0 7	0 41	1 30	0 10	16 4	20 23	20 28	16 38	3 14	5 42	
F 11	4 51	9 11	4 58	7 14	1 58	11 59	7 30	2 48	0 52	9 30	1 3	0 23	2 12	23 28	0 7	0 41	1 30	0 10	16 5	20 21	20 27	16 37	3 15	5 42	
S 12	4 28	5 0	5 0	7 48	2 6	12 3	7 38	2 33	0 52	9 34	1 3	0 26	2 12	23 28	0 7	0 40	1 30	0 9	16 5	20 18	20 26	16 35	3 16	5 42	
S 13	4 5	0 32	4 48	8 21	2 14	12 6	7 46	2 17	0 52	9 38	1 3	0 28	2 12	23 28	0 7	0 40	1 30	0 9	16 5	20 16	20 26	16 33	3 17	5 42	
M14	3 42	4s 0	4 22	8 53	2 22	12 8	7 53	2 1	0 51	9 43	1 2	0 31	2 11	23 28	0 7	0 39	1 30	0 9	16 5	20 13	20 25	16 31	3 18	5 42	
T 15	3 19	8 26	3 43	9 25	2 30	12 8	8 0	1 45	0 51	9 47	1 2	0 34	2 11	23 29	0 7	0 38	1 30	0 8	16 6	20 11	20 25	16 30	3 20	5 42	
W16	2 56	12 34	2 51	9 55	2 38	12 6	8 6	1 30	0 51	9 51	1 2	0 37	2 11	23 29	0 7	0 38	1 30	0 8	16 6	20 10	20 24	16 28	3 21	5 42	
T 17	2 33	16 9	1 50	10 23	2 45	12 3	8 12	1 14	0 50	9 55	1 2	0 40	2 11	23 29	0 7	0 37	1 30	0 7	16 6	20 9	20 23	16 26	3 22	5 41	
F 18	2 10	18 57	0 42	10 50	2 53	11 59	8 17	0 58	0 50	10 0	1 2	0 43	2 11	23 29	0 7	0 36	1 30	0 7	16 6	20 8	20 23	16 24	3 23	5 41	
S 19	1 26	20 45	0n30	11 16	3 0	11 53	8 21	0 42	0 49	10 4	1 2	0 46	2 11	23 29	0 7	0 36	1 30	0 6	16 7	20 8	20 22	16 23	3 24	5 41	
S 20	1 23	21 20	1 41	11 40	3 6	11 46	8 25	0 26	0 49	10 8	1 2	0 49	2 11	23 29	0 7	0 35	1 30	0 6	16 7	20 8	20 21	16 21	3 25	5 41	
M21	1 0	20 37	2 48	12 3	3 12	11 37	8 28	0 10	0 49	10 13	1 2	0 52	2 11	23 29	0 7	0 34	1 30	0 6	16 7	20 8	20 21	16 19	3 26	5 41	
T 22	0 36	18 36	3 45	12 23	3 18	11 27	8 30	0s 5	0 48	10 17	1 1	0 54	2 11	23 29	0 7	0 34	1 30	0 5	16 7	20 8	20 20	16 17	3 28	5 41	
W23	0 13	15 24	4 29	12 42	3 23	11 16	8 31	0 21	0 48	10 22	1 1	0 57	2 11	23 29	0 7	0 33	1 30	0 5	16 7	20 7	20 19	16 16	3 29	5 40	
T24	0s10	11 13	4 57	12 58	3 28	11 3	8 31	0 37	0 47	10 26	1 1	1 0	2 11	23 29	0 7	0 32	1 30	0 4	16 8	20 6	20 19	16 14	3 30	5 40	
F 25	0 34	6 22	5 5	13 12	3 32	10 49	8 31	0 53	0 47	10 30	1 1	1 3	2 11	23 29	0 7	0 32	1 30	0 4	16 8	20 4	20 18	16 12	3 31	5 40	
S 26	0 57	1 11	4 53	13 24	3 36	10 33	8 29	1 9	0 47	10 35	1 1	1 6	2 11	23 29	0 7	0 31	1 30	0 3	16 8	20 2	20 17	16 10	3 32	5 40	
S 27	1 21	4n 1	4 22	13 32	3 39	10 17	8 27	1 25	0 46	10 39	1 1	1 9	2 11	23 29	0 7	0 30	1 30	0 3	16 8	20 0	20 17	16 8	3 33	5 40	
M28	1 44	8 55	3 36	13 38	3 40	9 59	8 23	1 41	0 46	10 44	1 1	1 12	2 11	23 29	0 7	0 30	1 30	0 3	16 8	19 59	20 16	16 7	3 34	5 39	
T 29	2 7	13 14	2 38	13 40	3 41	9 40	8 19	1 57	0 45	10 48	1 1	1 15	2 11	23 29	0 7	0 29	1 30	0 2	16 9	19 57	20 15	16 5	3 36	5 39	
W30	2s31	16n44	1n33	13s39	3s41	9s21	8s14	2s12	0n45	10s52	1n 1	1s18	2n11	23n29	0n 7	0n28	1s30	0n 2	16s 9	19s57	20s15	16n 3	3s37	5n39	

ASTRODIENST EPHEMERIS for the year 1863
geocentric

OCTOBER 1863

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 36 55	7♌18'39	24♋25	26°R19	3°R54	7♌57	1♎11	8♏27	25°R 5	4°R37	11°R57	28°D56	0♈19	29♉11	7°R12	T 1
F 2	0 40 52	8°17'42	7♌II 2	26♌ 1	3♏18	8°36	1°23	8°35	25°II 5	4°Y35	11°B56	28♌57	0°16	29°18	7°K10	F 2
S 3	0 44 49	9°16'48	19°22	25°36	2°43	9°15	1°36	8°42	25° 5	4°34	11°55	28°58	0°13	29°24	7° 7	S 3
S 4	0 48 45	10°15'56	1♏26	25° 3	2° 8	9°55	1°48	8°49	25° 4	4°32	11°54	28°59	0°10	29°31	7° 5	S 4
M 5	0 52 42	11°15'06	13°22	24°23	1°35	10°34	2° 1	8°57	25° 4	4°30	11°53	28°R59	0° 7	29°38	7° 3	M 5
T 6	0 56 38	12°14'18	25°13	23°34	1° 3	11°13	2°14	9° 4	25° 4	4°29	11°52	28°58	0° 3	29°45	7° 0	T 6
W 7	1 0 35	13°13'33	7♏ 5	22°39	0°32	11°53	2°26	9°12	25° 4	4°27	11°51	28°55	0° 0	29°51	6°58	W 7
T 8	1 4 31	14°12'50	19° 2	21°38	0° 3	12°32	2°39	9°19	25° 3	4°25	11°50	28°50	29♌57	29°58	6°56	T 8
F 9	1 8 28	15°12'09	1♎ 8	20°31	29♎37	13°12	2°52	9°26	25° 3	4°24	11°49	28°44	29°54	0♏ 5	6°54	F 9
S 10	1 12 24	16°11'30	13°27	19°21	29°12	13°51	3° 5	9°34	25° 3	4°22	11°48	28°36	29°51	0°11	6°52	S 10
S 11	1 16 21	17°10'54	26° 0	18° 9	28°49	14°31	3°18	9°41	25° 2	4°21	11°47	28°28	29°48	0°18	6°50	S 11
M12	1 20 18	18°10'20	8♏48	16°57	28°29	15°10	3°30	9°48	25° 2	4°19	11°46	28°21	29°44	0°25	6°48	M12
T 13	1 24 14	19° 9'47	21°51	15°47	28°10	15°50	3°43	9°56	25° 1	4°17	11°45	28°15	29°41	0°31	6°46	T 13
W14	1 28 11	20° 9'17	5♌ 7	14°42	27°55	16°30	3°56	10° 3	25° 0	4°16	11°44	28°11	29°38	0°38	6°44	W14
T 15	1 32 7	21° 8'49	18°37	13°42	27°41	17° 9	4° 9	10°10	25° 0	4°14	11°43	28° 9	29°35	0°45	6°42	T 15
F 16	1 36 4	22° 8'23	2♏17	12°51	27°30	17°49	4°22	10°18	24°59	4°13	11°42	28°D 9	29°32	0°52	6°40	F 16
S 17	1 40 0	23° 7'59	16° 6	12° 8	27°21	18°29	4°35	10°25	24°58	4°11	11°41	28°10	29°29	0°58	6°39	S 17
S 18	1 43 57	24° 7'36	0♏ 3	11°36	27°15	19° 9	4°48	10°32	24°57	4° 9	11°40	28°11	29°25	1° 5	6°37	S 18
M19	1 47 53	25° 7'16	14° 7	11°15	27°12	19°49	5° 1	10°39	24°56	4° 8	11°39	28°13	29°22	1°12	6°35	M19
T 20	1 51 50	26° 6'57	28°16	11°D 5	27°D10	20°28	5°14	10°47	24°55	4° 6	11°38	28°R13	29°19	1°18	6°34	T 20
W21	1 55 47	27° 6'39	12♏28	11° 6	27°11	21° 8	5°27	10°54	24°54	4° 5	11°37	28°12	29°16	1°25	6°32	W21
T 22	1 59 43	28° 6'24	26°42	11°18	27°15	21°48	5°40	11° 1	24°53	4° 3	11°35	28°10	29°13	1°32	6°31	T 22
F 23	2 3 40	29° 6'09	10♏55	11°41	27°21	22°28	5°53	11° 8	24°52	4° 2	11°34	28° 6	29° 9	1°39	6°29	F 23
S 24	2 7 36	0♌ 5'57	25° 2	12°13	27°29	23° 8	6° 6	11°15	24°51	4° 0	11°33	28° 2	29° 6	1°45	6°28	S 24
S 25	2 11 33	1° 5'46	9♏ 0	12°54	27°39	23°48	6°19	11°23	24°50	3°59	11°32	27°58	29° 3	1°52	6°26	S 25
M26	2 15 29	2° 5'38	22°45	13°44	27°51	24°28	6°33	11°30	24°49	3°58	11°31	27°54	29° 0	1°59	6°25	M26
T 27	2 19 26	3° 5'31	6♏13	14°40	28° 6	25° 8	6°46	11°37	24°48	3°56	11°30	27°52	28°57	2° 5	6°24	T 27
W28	2 23 22	4° 5'26	19°24	15°44	28°23	25°49	6°59	11°44	24°46	3°55	11°29	27°50	28°54	2°12	6°23	W28
T 29	2 27 19	5° 5'23	2♌16	16°52	28°41	26°29	7°12	11°51	24°45	3°53	11°28	27°D50	28°50	2°19	6°22	T 29
F 30	2 31 16	6° 5'22	14°51	18° 6	29° 2	27° 9	7°25	11°58	24°43	3°52	11°27	27°51	28°47	2°25	6°20	F 30
S 31	2 35 12	7♌ 5'24	27♌ 9	19♏24	29♎24	27♏49	7♌38	12♏ 5	24♌42	3°Y51	11♏25	27♌52	28♌44	2♏32	6°K19	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
T 1	2s54	19n17	0n24	13s34	3s39	9s 1	8s 8	2s28	0n44	10s57	1n 0	1s21	2n11	23n29	0n 7	0n28	1s30	0n 1	16s 9	19s56	20s14	16n 1	3s38	5n39									
F 2	3 18	20 47	0s44	13 24	3 36	8 40	8 1	2 44	0 44	11 1	1 0	1 23	2 11	23 29	0 7	0 27	1 30	0 1	16 9	19 56	20 13	15 59	3 39	5 38									
S 3	3 41	21 14	1 48	13 11	3 31	8 18	7 53	3 0	0 44	11 6	1 0	1 26	2 11	23 29	0 7	0 26	1 30	0 1	16 9	19 56	20 13	15 58	3 40	5 38									
S 4	4 4	20 41	2 46	12 53	3 25	7 57	7 44	3 16	0 43	11 10	1 0	1 29	2 11	23 29	0 7	0 26	1 30	0 0	16 9	19 57	20 12	15 56	3 41	5 38									
M 5	4 27	19 12	3 36	12 31	3 17	7 35	7 35	3 32	0 43	11 15	1 0	1 32	2 11	23 29	0 7	0 25	1 30	0s 0	16 10	19 57	20 11	15 54	3 42	5 38									
T 6	4 50	16 54	4 17	12 4	3 7	7 13	7 25	3 48	0 42	11 19	1 0	1 35	2 12	23 29	0 7	0 24	1 30	0 1	16 10	19 57	20 11	15 52	3 43	5 37									
W 7	5 14	13 53	4 47	11 32	2 56	6 51	7 14	4 3	0 42	11 23	1 0	1 38	2 12	23 29	0 7	0 24	1 30	0 1	16 10	19 56	20 10	15 50	3 44	5 37									
T 8	5 37	10 18	5 4	10 57	2 42	6 29	7 3	4 19	0 41	11 28	1 0	1 41	2 12	23 29	0 7	0 23	1 30	0 2	16 10	19 55	20 9	15 49	3 45	5 37									
F 9	5 59	6 16	5 8	10 17	2 27	6 8	6 51	4 35	0 41	11 32	1 0	1 44	2 12	23 29	0 7	0 22	1 30	0 2	16 10	19 53	20 9	15 47	3 46	5 37									
S 10	6 22	1 55	4 58	9 35	2 10	5 47	6 39	4 51	0 41	11 37	1 0	1 46	2 12	23 29	0 7	0 22	1 30	0 2	16 10	19 52	20 8	15 45	3 47	5 36									
S 11	6 45	2s36	4 34	8 50	1 52	5 26	6 26	5 7	0 40	11 41	1 0	1 49	2 12	23 29	0 7	0 21	1 30	0 3	16 10	19 50	20 7	15 43	3 48	5 36									
M12	7 8	7 6	3 56	8 5	1 32	5 6	6 13	5 22	0 40	11 46	1 0	1 52	2 12	23 29	0 7	0 20	1 30	0 3	16 10	19 48	20 7	15 41	3 49	5 36									
T 13	7 30	11 22	3 4	7 19	1 12	4 47	6 0	5 38	0 39	11 50	0 59	1 55	2 12	23 29	0 7	0 20	1 30	0 4	16 11	19 47	20 6	15 40	3 50	5 35									
W14	7 53	15 9	2 2	6 35	0 51	4 28	5 47	5 54	0 39	11 54	0 59	1 58	2 12	23 29	0 7	0 19	1 30	0 4	16 11	19 46	20 5	15 38	3 51	5 35									
T 15	8 15	18 12	0 52	5 53	0 31	4 10	5 33	6 9	0 38	11 59	0 59	2 1	2 12	23 29	0 7	0 19	1 30	0 4	16 11	19 46	20 5	15 36	3 52	5 35									
F 16	8 38	20 16	0n23	5 14	0 10	3 53	5 19	6 25	0 38	12 3	0 59	2 3	2 12	23 29	0 7	0 18	1 30	0 5	16 11	19 46	20 4	15 34	3 53	5 35									
S 17	9 0	21 8	1 36	4 40	0n 9	3 37	5 5	6 40	0 37	12 8	0 59	2 6	2 12	23 29	0 7	0 17	1 30	0 5	16 11	19 46	20 3	15 32	3 54	5 34									
S 18	9 22	20 42	2 45	4 10	0 27	3 22	4 51	6 56	0 37	12 12	0 59	2 9	2 12	23 29	0 7	0 17	1 30	0 5	16 11	19 46	20 2	15 30	3 55	5 34									
M19	9 44	18 59	3 45	3 46	0 44	3 8	4 37	7 11	0 37	12 17	0 59	2 12	2 12	23 29	0 7	0 16	1 30	0 6	16 11	19 47	20 2	15 29	3 56	5 34									
T 20	10 5	16 6	4 31	3 28	1 0	2 54	4 24	7 27	0 36	12 21	0 59	2 14	2 12	23 29	0 8	0 15	1 30	0 6	16 11	19 47	20 1	15 27	3 57	5 33									
W21	10 27	12 15	5 1	3 16	1 14	2 42	4 10	7 42	0 36	12 25	0 59	2 17	2 12	23 29	0 8	0 15	1 30	0 7	16 11	19 46	20 0	15 25	3 58	5 33									
T 22	10 48	7 43	5 13	3 9	1 26	2 31	3 56	7 58	0 35	12 30	0 59	2 20	2 12	23 29	0 8	0 14	1 30	0 7	16 11	19 46	20 0	15 23	3 58	5 33									
F 23	11 10	2 46	5 5	3 8	1 37	2 21	3 42	8 13	0 35	12 34	0 59	2 23	2 13	23 29	0 8	0 14	1 30	0 7	16 11	19 45	19 59	15 21	3 59	5 32									
S 24	11 31	2n17	4 39	3 13	1 46	2 12	3 29	8 28	0 34	12 39	0 59	2 25	2 13	23 29	0 8	0 13	1 30	0 8	16 11	19 44	19 58	15 19	4 0	5 32									
S 25	11 52	7 11	3 57	3 22	1 53	2 3	3 16	8 43	0 34	12 43	0 59	2 28	2 13	23 29	0 8	0 13	1 30	0 8	16 12	19 43	19 58	15 17	4 1	5 32									
M26	12 13	11 39	3 1	3 36	1 59	1 56	3 3	8 59	0 33	12 47	0 59	2 31	2 13	23 29	0 8	0 12	1 30	0 8	16 12	19 42	19 57	15 16	4 2	5 31									
T 27	12 33	15 26	1 56	3 54	2 3	1 50	2 50	9 14	0 33	12 52	0 59	2 33	2 13	23 29	0 8	0 12	1 30	0 9	16 12	19 42	19 56	15 14	4 2	5 31									
W28	12 53	18 20	0 46	4 15	2 6	1 45	2 37	9 29	0 32	12 56	0 59	2 36	2 13	23 29	0 8	0 11	1 30	0 9	16 12	19 41	19 56	15 12	4 3	5 31									
T 29	13 14	20 14	0s24	4 39	2 8	1 41	2 25	9 44	0 32	13 0	0 58	2 39	2 13	23 29	0 8	0 10	1 30	0 9	16 12	19 41	19 55	15 10	4 4	5 30									
F 30	13 34	21 4	1 32	5 7	2 9	1 38	2 13	9 59	0 31	13 5	0 58	2 41	2 13	23 29	0 8	0 10	1 30	0 10	16 12	19 42	19 54	15 8	4 4	5 30									
S 31	13s53	20n51	2s35	5s36	2n 9	1s36	2s 1	10s14	0n31	13s 9	0n58	2s44	2n13	23n29	0n 8	0n 9	1s30	0s10	16s12	19s42	19s53	15n 6	4s 5	5n30									

ASTRODIENST EPHEMERIS for the year 1863

geocentric

NOVEMBER 1863

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 39 9	8♈ 5'27	9♉14	20♊45	29♋49	28♌29	7♍51	12♎12	24♏40	3♐49	11♑24	27♒54	28♓41	2♈39	6♉18	S 1	
M 2	2 43 5	9° 5'33	21°11	22° 9	0♈15	29°10	8° 5	12°18	24♈39	3♐48	11♑23	27°55	28°38	2°46	6♈18	M 2	
T 3	2 47 2	10° 5'40	3♈ 3	23°36	0°43	29°50	8°18	12°25	24°37	3°47	11°22	27°56	28°35	2°52	6°17	T 3	
W 4	2 50 58	11° 5'50	14°55	25° 5	1°12	0♈30	8°31	12°32	24°36	3°46	11°21	27°R56	28°31	2°59	6°16	W 4	
T 5	2 54 55	12° 6'02	26°53	26°36	1°43	1°11	8°44	12°39	24°34	3°44	11°20	27°56	28°28	3° 6	6°15	T 5	
F 6	2 58 51	13° 6'15	9♈ 0	28° 8	2°16	1°51	8°57	12°46	24°32	3°43	11°19	27°54	28°25	3°12	6°14	F 6	
S 7	3 2 48	14° 6'31	21°21	29°41	2°50	2°32	9°10	12°52	24°31	3°42	11°18	27°53	28°22	3°19	6°14	S 7	
S 8	3 6 44	15° 6'49	4♈ 0	1♈15	3°25	3°12	9°23	12°59	24°29	3°41	11°16	27°51	28°19	3°26	6°13	S 8	
M 9	3 10 41	16° 7'08	16°57	2°50	4° 2	3°53	9°37	13° 6	24°27	3°40	11°15	27°49	28°15	3°33	6°13	M 9	
T 10	3 14 38	17° 7'30	0♈15	4°25	4°40	4°34	9°50	13°12	24°25	3°38	11°14	27°48	28°12	3°39	6°12	T 10	
W11	3 18 34	18° 7'53	13°52	6° 1	5°19	5°14	10° 3	13°19	24°23	3°37	11°13	27°47	28° 9	3°46	6°12	W11	
T 12	3 22 31	19° 8'18	27°46	7°37	6° 0	5°55	10°16	13°25	24°21	3°36	11°12	27°D46	28° 6	3°53	6°12	T 12	
F 13	3 26 27	20° 8'45	11♈54	9°13	6°42	6°36	10°29	13°32	24°19	3°35	11°11	27°47	28° 3	3°59	6°11	F 13	
S 14	3 30 24	21° 9'14	26°12	10°49	7°24	7°16	10°42	13°38	24°17	3°34	11°10	27°47	28° 0	4° 6	6°11	S 14	
S 15	3 34 20	22° 9'43	10♈35	12°25	8° 8	7°57	10°55	13°44	24°15	3°33	11° 9	27°48	27°56	4°13	6°11	S 15	
M16	3 38 17	23°10'14	24°58	14° 1	8°53	8°38	11° 8	13°51	24°13	3°32	11° 8	27°48	27°53	4°20	6°11	M16	
T 17	3 42 14	24°10'47	9♈17	15°37	9°39	9°19	11°21	13°57	24°11	3°31	11° 6	27°49	27°50	4°26	6°D11	T 17	
W18	3 46 10	25°11'20	23°30	17°13	10°26	10° 0	11°34	14° 3	24° 9	3°31	11° 5	27°R49	27°47	4°33	6°11	W18	
T 19	3 50 7	26°11'55	7♈34	18°49	11°14	10°41	11°47	14° 9	24° 7	3°30	11° 4	27°49	27°44	4°40	6°11	T 19	
F 20	3 54 3	27°12'31	21°28	20°24	12° 2	11°22	12° 0	14°15	24° 5	3°29	11° 3	27°49	27°41	4°46	6°11	F 20	
S 21	3 58 0	28°13'08	5♈10	22° 0	12°52	12° 3	12°13	14°21	24° 2	3°28	11° 2	27°D49	27°37	4°53	6°11	S 21	
S 22	4 1 56	29°13'46	18°40	23°35	13°42	12°44	12°26	14°27	24° 0	3°27	11° 1	27°49	27°34	5° 0	6°12	S 22	
M23	4 5 53	0♈14'25	1♈58	25°11	14°33	13°25	12°39	14°33	23°58	3°27	11° 0	27°49	27°31	5° 7	6°12	M23	
T 24	4 9 49	1°15'06	15° 2	26°46	15°25	14° 6	12°52	14°39	23°56	3°26	10°59	27°49	27°28	5°13	6°12	T 24	
W25	4 13 46	2°15'48	27°52	28°21	16°18	14°47	13° 4	14°45	23°53	3°25	10°58	27°R49	27°25	5°20	6°13	W25	
T 26	4 17 43	3°16'31	10♈30	29°55	17°11	15°28	13°17	14°51	23°51	3°24	10°57	27°49	27°21	5°27	6°13	T 26	
F 27	4 21 39	4°17'16	22°54	1♈30	18° 5	16° 9	13°30	14°56	23°49	3°24	10°56	27°49	27°18	5°33	6°14	F 27	
S 28	4 25 36	5°18'02	5♈ 7	3° 5	19° 0	16°51	13°43	15° 2	23°46	3°23	10°55	27°48	27°15	5°40	6°14	S 28	
S 29	4 29 32	6°18'49	17°10	4°39	19°55	17°32	13°55	15° 8	23°44	3°23	10°54	27°47	27°12	5°47	6°15	S 29	
M30	4 33 29	7♈19'38	29♈ 6	6♈14	20♈51	18♈13	14♈ 8	15♈13	23♈41	3♐22	10♑53	27♒45	27♓ 9	5♈54	6♉16	M30	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	14s13	19n40	3s29	6s 8	2n 8	1s35	1s49	10s28	0n30	13s13	0n58	2s46	2n13	23n29	0n 8	0n 9	1s30
M 2	14 32	17 37	4 13	6 41	2 6	1 35	1 37	10 43	0 30	13 17	0 58	2 49	2 14	23 29	0 8	0 8	1 30
T 3	14 51	14 50	4 47	7 15	2 4	1 36	1 26	10 58	0 29	13 22	0 58	2 52	2 14	23 28	0 8	0 8	1 30
W 4	15 10	11 27	5 8	7 51	2 1	1 38	1 15	11 12	0 29	13 26	0 58	2 54	2 14	23 28	0 8	0 7	1 30
T 5	15 29	7 36	5 16	8 27	1 57	1 40	1 5	11 27	0 28	13 30	0 58	2 57	2 14	23 28	0 8	0 7	1 30
F 6	15 47	3 24	5 10	9 4	1 53	1 44	0 54	11 42	0 28	13 34	0 58	2 59	2 14	23 28	0 8	0 7	1 30
S 7	16 5	1s 1	4 50	9 41	1 48	1 48	0 44	11 56	0 27	13 39	0 58	3 2	2 14	23 28	0 8	0 6	1 30
S 8	16 23	5 30	4 16	10 18	1 43	1 53	0 34	12 10	0 27	13 43	0 58	3 4	2 14	23 28	0 8	0 6	1 29
M 9	16 40	9 51	3 27	10 56	1 38	1 59	0 25	12 25	0 26	13 47	0 58	3 7	2 14	23 28	0 8	0 5	1 29
T 10	16 58	13 51	2 27	11 33	1 32	2 6	0 15	12 39	0 26	13 51	0 58	3 9	2 15	23 28	0 8	0 5	1 29
W11	17 15	17 14	1 16	12 11	1 26	2 13	0 6	12 53	0 25	13 55	0 58	3 11	2 15	23 28	0 8	0 4	1 29
T 12	17 31	19 41	0 0	12 48	1 20	2 21	0n 2	13 7	0 25	13 59	0 58	3 14	2 15	23 28	0 8	0 4	1 29
F 13	17 48	20 57	1n18	13 24	1 14	2 29	0 11	13 21	0 24	14 3	0 58	3 16	2 15	23 28	0 8	0 4	1 29
S 14	18 4	20 53	2 31	14 1	1 7	2 39	0 19	13 35	0 24	14 8	0 58	3 18	2 15	23 28	0 8	0 3	1 29
S 15	18 19	19 27	3 36	14 36	1 1	2 49	0 27	13 48	0 23	14 12	0 58	3 21	2 15	23 28	0 8	0 3	1 29
M16	18 35	16 47	4 27	15 12	0 54	2 59	0 35	14 2	0 23	14 16	0 58	3 23	2 15	23 28	0 8	0 3	1 29
T 17	18 50	13 6	5 1	15 46	0 47	3 10	0 43	14 15	0 22	14 15	0 58	3 25	2 16	23 28	0 8	0 2	1 29
W18	19 4	8 43	5 16	16 20	0 41	3 22	0 50	14 29	0 22	14 20	0 58	3 28	2 16	23 27	0 8	0 2	1 29
T 19	19 19	3 54	5 13	16 53	0 34	3 34	0 57	14 42	0 21	14 28	0 58	3 30	2 16	23 27	0 8	0 2	1 29
F 20	19 33	1n 4	4 51	17 26	0 27	3 47	1 4	14 56	0 20	14 32	0 58	3 32	2 16	23 27	0 8	0 1	1 29
S 21	19 47	5 55	4 12	17 57	0 20	4 0	1 10	15 9	0 20	14 36	0 58	3 34	2 16	23 27	0 8	0 1	1 29
S 22	20 0	10 25	3 21	18 28	0 13	4 14	1 17	15 22	0 19	14 40	0 58	3 36	2 16	23 27	0 8	0 1	1 29
M23	20 13	14 20	2 19	18 58	0 6	4 28	1 23	15 35	0 19	14 43	0 58	3 38	2 17	23 27	0 8	0 0	1 29
T 24	20 25	17 29	1 10	19 27	0s 1	4 43	1 29	15 47	0 18	14 47	0 58	3 41	2 17	23 27	0 8	0 0	1 29
W25	20 38	19 42	0s 0	19 55	0 7	4 58	1 34	16 0	0 18	14 51	0 58	3 43	2 17	23 27	0 8	0 0	1 29
T 26	20 50	20 53	1 10	20 23	0 14	5 13	1 40	16 13	0 17	14 55	0 58	3 45	2 17	23 27	0 8	0s 0	1 29
F 27	21 1	21 1	2 15	20 49	0 21	5 29	1 45	16 25	0 17	14 59	0 58	3 47	2 17	23 27	0 8	0 0	1 29
S 28	21 12	20 9	3 12	21 14	0 27	5 45	1 50	16 37	0 16	15 3	0 58	3 49	2 18	23 27	0 8	0 1	1 29
S 29	21 23	18 22	4 1	21 38	0 34	6 2	1 55	16 50	0 15	15 6	0 58	3 51	2 18	23 26	0 8	0 1	1 29
M30	21s33	15n49	4s38	22s 1	0s40	6s18	1n59	17s 2	0n15	15s10	0n58	3s52	2n18	23n26	0n 8	0s 1	1s29

Julian Day Number = 2401810.5, Delta T = 8.77 sec

Ecliptic obliquity = 23°27'20, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°50'20, Lahiri = 21°57'20

ASTRODIENST EPHEMERIS for the year 1863

geocentric

DECEMBER 1863

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 37 25	8°20'28	10°58	7°48	21°48	18°55	14°21	15°18	23°R39	3°R22	10°R52	27°R44	27°M 6	6°Ω 0	6°H 17	T 1	
W 2	4 41 22	9°21'19	22°49	9°22	22°45	19°36	14°33	15°24	23°II37	3°Y21	10°B51	27°M43	27° 2	6° 7	6°17	W 2	
T 3	4 45 18	10°22'12	4°M45	10°56	23°43	20°17	14°46	15°29	23°34	3°21	10°50	27°42	26°59	6°14	6°18	T 3	
F 4	4 49 15	11°23'06	16°50	12°31	24°41	20°59	14°58	15°34	23°32	3°20	10°49	27°D42	26°56	6°20	6°19	F 4	
S 5	4 53 12	12°24'01	29° 8	14° 5	25°40	21°40	15°11	15°39	23°29	3°20	10°48	27°43	26°53	6°27	6°20	S 5	
S 6	4 57 8	13°24'58	11°44	15°39	26°39	22°22	15°23	15°44	23°27	3°20	10°47	27°44	26°50	6°34	6°22	S 6	
M 7	5 1 5	14°25'56	24°41	17°13	27°39	23° 4	15°35	15°49	23°24	3°19	10°46	27°45	26°46	6°41	6°23	M 7	
T 8	5 5 1	15°26'55	8°M 3	18°47	28°39	23°45	15°48	15°54	23°22	3°19	10°45	27°47	26°43	6°47	6°24	T 8	
W 9	5 8 58	16°27'55	21°50	20°22	29°40	24°27	16° 0	15°59	23°19	3°19	10°44	27°R47	26°40	6°54	6°25	W 9	
T 10	5 12 54	17°28'57	6°X 2	21°56	0°M41	25° 9	16°12	16° 4	23°16	3°19	10°43	27°47	26°37	7° 1	6°26	T 10	
F 11	5 16 51	18°29'59	20°33	23°31	1°42	25°50	16°24	16° 9	23°14	3°19	10°43	27°46	26°34	7° 7	6°28	F 11	
S 12	5 20 47	19°31'02	5°Z 18	25° 5	2°44	26°32	16°36	16°13	23°11	3°18	10°42	27°44	26°31	7°14	6°29	S 12	
S 13	5 24 44	20°32'06	20°10	26°40	3°46	27°14	16°48	16°18	23° 9	3°18	10°41	27°41	26°27	7°21	6°31	S 13	
M14	5 28 41	21°33'10	5°A 1	28°14	4°49	27°56	17° 0	16°22	23° 6	3°18	10°40	27°37	26°24	7°28	6°32	M14	
T 15	5 32 37	22°34'15	19°43	29°49	5°52	28°38	17°12	16°27	23° 4	3°D18	10°39	27°34	26°21	7°34	6°34	T 15	
W16	5 36 34	23°35'20	4°H 9	1°Z 24	6°55	29°20	17°24	16°31	23° 1	3°18	10°38	27°32	26°18	7°41	6°36	W16	
T 17	5 40 30	24°36'25	18°18	2°59	7°59	0°X 2	17°36	16°35	22°58	3°18	10°38	27°D31	26°15	7°48	6°37	T 17	
F 18	5 44 27	25°37'31	2°Y 6	4°34	9° 3	0°44	17°48	16°39	22°56	3°18	10°37	27°31	26°12	7°54	6°39	F 18	
S 19	5 48 23	26°38'37	15°36	6° 9	10° 7	1°26	17°59	16°43	22°53	3°18	10°36	27°32	26° 8	8° 1	6°41	S 19	
S 20	5 52 20	27°39'43	28°47	7°44	11°12	2° 8	18°11	16°47	22°51	3°19	10°35	27°33	26° 5	8° 8	6°43	S 20	
M21	5 56 16	28°40'49	11°B43	9°20	12°16	2°50	18°22	16°51	22°48	3°19	10°35	27°35	26° 2	8°15	6°45	M21	
T 22	6 0 13	29°41'56	24°24	10°55	13°22	3°32	18°34	16°55	22°46	3°19	10°34	27°R36	25°59	8°21	6°47	T 22	
W23	6 4 10	0°Z43'03	6°II55	12°30	14°27	4°14	18°45	16°58	22°43	3°19	10°33	27°36	25°56	8°28	6°49	W23	
T 24	6 8 6	1°44'10	19°15	14° 5	15°33	4°57	18°57	17° 2	22°41	3°20	10°33	27°34	25°52	8°35	6°51	T 24	
F 25	6 12 3	2°45'17	1°B26	15°40	16°39	5°39	19° 8	17° 5	22°38	3°20	10°32	27°30	25°49	8°41	6°53	F 25	
S 26	6 15 59	3°46'25	13°31	17°14	17°45	6°21	19°19	17° 9	22°36	3°20	10°31	27°24	25°46	8°48	6°55	S 26	
S 27	6 19 56	4°47'33	25°29	18°49	18°51	7° 3	19°30	17°12	22°33	3°21	10°31	27°17	25°43	8°55	6°57	S 27	
M28	6 23 52	5°48'41	7°B23	20°23	19°58	7°46	19°41	17°15	22°31	3°21	10°30	27° 9	25°40	9° 2	7° 0	M28	
T 29	6 27 49	6°49'50	19°15	21°56	21° 5	8°28	19°52	17°18	22°28	3°22	10°30	27° 2	25°37	9° 8	7° 2	T 29	
W30	6 31 45	7°50'59	1°M 6	23°28	22°12	9°11	20° 3	17°21	22°26	3°22	10°29	26°55	25°33	9°15	7° 4	W30	
T 31	6 35 42	8°52'08	13°M 1	25°Z 0	23°M19	9°X53	20°M14	17°B24	22°II23	3°Y23	10°B29	26°M50	25°M30	9°Ω22	7°H 7	T 31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	21s43	12n38	5 s 3	22s23	0s46	6s35	2n 4	17s14	0n14	15s14	0n58	3s54	2n18	23n26	0n 8	0s 1	1s29
W 2	21 52	8 57	5 15	22 44	0 52	6 53	2 8	17 26	0 14	15 18	0 58	3 56	2 18	23 26	0 8	0 1	1 29
T 3	22 1	4 54	5 14	23 4	0 58	7 10	2 12	17 37	0 13	15 21	0 58	3 58	2 19	23 26	0 8	0 1	1 29
F 4	22 10	0 37	4 59	23 22	1 4	7 28	2 15	17 49	0 13	15 25	0 58	4 0	2 19	23 26	0 8	0 2	1 29
S 5	22 18	3s47	4 30	23 40	1 10	7 46	2 19	18 0	0 12	15 28	0 58	4 2	2 19	23 26	0 8	0 2	1 29
S 6	22 26	8 8	3 48	23 56	1 15	8 4	2 22	18 11	0 11	15 32	0 58	4 3	2 19	23 26	0 8	0 2	1 28
M 7	22 33	12 15	2 53	24 11	1 21	8 23	2 26	18 23	0 11	15 36	0 58	4 5	2 19	23 26	0 8	0 2	1 28
T 8	22 40	15 53	1 47	24 24	1 26	8 41	2 28	18 34	0 10	15 39	0 58	4 7	2 20	23 25	0 8	0 2	1 28
W 9	22 46	18 46	0 33	24 37	1 31	9 0	2 31	18 44	0 10	15 43	0 58	4 8	2 20	23 25	0 8	0 2	1 28
T 10	22 52	20 35	0n45	24 48	1 35	9 19	2 34	18 55	0 9	15 46	0 58	4 10	2 20	23 25	0 8	0 2	1 28
F 11	22 57	21 5	2 2	24 57	1 40	9 38	2 36	19 6	0 8	15 49	0 58	4 12	2 20	23 25	0 8	0 2	1 28
S 12	23 2	20 9	3 12	25 6	1 44	9 57	2 39	19 16	0 8	15 53	0 58	4 13	2 21	23 25	0 8	0 2	1 28
S 13	23 7	17 49	4 10	25 13	1 48	10 16	2 41	19 26	0 7	15 56	0 58	4 15	2 21	23 25	0 8	0 2	1 28
M14	23 11	14 20	4 50	25 19	1 52	10 35	2 43	19 36	0 7	16 0	0 58	4 16	2 21	23 25	0 8	0 2	1 28
T 15	23 15	9 59	5 11	25 23	1 55	10 54	2 44	19 46	0 6	16 3	0 58	4 18	2 21	23 25	0 8	0 2	1 28
W16	23 18	5 9	5 12	25 26	1 59	11 13	2 46	19 56	0 5	16 6	0 58	4 19	2 21	23 25	0 8	0 2	1 28
T 17	23 21	0 7	4 54	25 27	2 2	11 32	2 47	20 6	0 5	16 9	0 58	4 20	2 22	23 24	0 8	0 2	1 28
F 18	23 23	4n48	4 19	25 27	2 4	11 51	2 49	20 15	0 4	16 13	0 58	4 22	2 22	23 24	0 8	0 2	1 28
S 19	23 25	9 22	3 30	25 25	2 6	12 10	2 50	20 24	0 3	16 16	0 59	4 23	2 22	23 24	0 8	0 2	1 28
S 20	23 26	13 24	2 31	25 22	2 8	12 29	2 51	20 33	0 3	16 19	0 59	4 24	2 22	23 24	0 8	0 2	1 28
M21	23 27	16 43	1 26	25 17	2 10	12 48	2 52	20 42	0 2	16 22	0 59	4 26	2 23	23 24	0 8	0 1	1 28
T 22	23 27	19 10	0 17	25 11	2 11	13 7	2 52	20 51	0 2	16 25	0 59	4 27	2 23	23 24	0 8	0 1	1 28
W23	23 27	20 39	0s51	25 3	2 12	13 26	2 53	21 0	0 1	16 28	0 59	4 28	2 23	23 24	0 8	0 1	1 28
T 24	23 27	21 6	1 55	24 54	2 12	13 45	2 53	21 8	0 0	16 31	0 59	4 29	2 23	23 23	0 8	0 1	1 28
F 25	23 26	20 33	2 54	24 43	2 12	14 3	2 53	21 16	0s 0	16 34	0 59	4 30	2 24	23 23	0 8	0 1	1 28
S 26	23 24	19 3	3 44	24 30	2 11	14 22	2 53	21 24	0 1	16 37	0 59	4 31	2 24	23 23	0 8	0 1	1 28
S 27	23 22	16 44	4 24	24 16	2 10	14 40	2 53	21 32	0 2	16 40	0 59	4 32	2 24	23 23	0 8	0 0	1 28
M28	23 20	13 44	4 51	24 1	2 8	14 58	2 53	21 39	0 2	16 43	0 59	4 33	2 25	23 23	0 8	0 0	1 28
T 29	23 17	10 12	5 6	23 44	2 6	15 16	2 53	21 47	0 3	16 46	0 59	4 34	2 25	23 23	0 8	0 0	1 27
W30	23 13	6 17	5 8	23 26	2 2	15 33	2 52	21 54	0 4	16 49	0 59	4 35	2 25	23 23	0 8	0n 0	1 27
T 31	23s10	2n 6	4s57	23s 6	1s59	15s51	2n52	22s 1	0s 4	16s52	0n59	4s36	2n25	23n23	0n 8	0n 0	1s27

Julian Day Number = 2401840.5, Delta T = 8.75 sec
 Ecliptic obliquity = 23°27'20, Nutation = 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°50'24, Lahiri = 21°57'24