



# Astrodienst Ephemeris Tables for the year 1963

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 1963

geocentric

JANUARY 1963

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 39 42	9☾50'33	13☿ 9	28☾42	25♁16	24°R35	9☿ 0	9☾56	5°R 6	15♁ 4	12°R 5	29☾45	0♁41	17♁44	7☿ 7	T 1
W 2	6 43 39	10°51'43	27°11	29°56	26° 3	24♁30	9°11	10° 3	5☿ 5	15° 6	12☿ 5	29°46	0°38	17°51	7° 9	W 2
T 3	6 47 35	11°52'53	11☿19	1☾ 7	26°52	24°24	9°22	10° 9	5° 4	15° 7	12° 4	29°R46	0°35	17°58	7°12	T 3
F 4	6 51 32	12°54'02	25°31	2°14	27°41	24°17	9°33	10°16	5° 3	15° 9	12° 3	29°46	0°32	18° 4	7°14	F 4
S 5	6 55 28	13°55'11	9♁45	3°14	28°31	24°10	9°44	10°23	5° 1	15°10	12° 3	29°45	0°28	18°11	7°17	S 5
S 6	6 59 25	14°56'20	23°58	4° 9	29°22	24° 2	9°55	10°29	5° 0	15°11	12° 2	29°43	0°25	18°18	7°19	S 6
M 7	7 3 21	15°57'28	8♁ 6	4°57	0♁14	23°53	10° 6	10°36	4°59	15°13	12° 1	29°41	0°22	18°24	7°22	M 7
T 8	7 7 18	16°58'36	22° 6	5°37	1° 6	23°43	10°18	10°43	4°57	15°14	12° 1	29°39	0°19	18°31	7°25	T 8
W 9	7 11 15	17°59'44	5☾54	6° 8	2° 0	23°32	10°29	10°50	4°56	15°15	12° 0	29°38	0°16	18°38	7°28	W 9
T 10	7 15 11	19° 0'52	19°28	6°30	2°53	23°21	10°41	10°56	4°54	15°17	11°59	29°37	0°12	18°45	7°30	T 10
F 11	7 19 8	20° 1'59	2♁44	6°R41	3°48	23° 8	10°52	11° 3	4°52	15°18	11°58	29°D37	0° 9	18°51	7°33	F 11
S 12	7 23 4	21° 3'06	15°42	6°41	4°43	22°55	11° 4	11°10	4°51	15°19	11°57	29°37	0° 6	18°58	7°36	S 12
S 13	7 27 1	22° 4'13	28°23	6°29	5°39	22°41	11°16	11°17	4°49	15°20	11°57	29°38	0° 3	19° 5	7°39	S 13
M14	7 30 57	23° 5'20	10☿47	6° 5	6°35	22°27	11°28	11°24	4°47	15°21	11°56	29°39	29☾59	19°11	7°42	M14
T 15	7 34 54	24° 6'26	22°57	5°30	7°32	22°12	11°40	11°31	4°46	15°22	11°55	29°40	29°57	19°18	7°45	T 15
W16	7 38 51	25° 7'32	4♁57	4°44	8°29	21°55	11°52	11°38	4°44	15°23	11°54	29°40	29°53	19°25	7°48	W16
T 17	7 42 47	26° 8'38	16°51	3°48	9°27	21°39	12° 4	11°45	4°42	15°24	11°53	29°40	29°50	19°32	7°51	T 17
F 18	7 46 44	27° 9'44	28°43	2°43	10°26	21°21	12°16	11°52	4°40	15°25	11°52	29°R40	29°47	19°38	7°54	F 18
S 19	7 50 40	28°10'49	10♁39	1°32	11°25	21° 3	12°28	11°59	4°38	15°26	11°51	29°40	29°44	19°45	7°58	S 19
S 20	7 54 37	29°11'54	22°42	0°16	12°24	20°44	12°41	12° 6	4°36	15°27	11°50	29°D40	29°41	19°52	8° 1	S 20
M21	7 58 33	0☾12'59	4☿58	28☾58	13°24	20°25	12°53	12°13	4°34	15°28	11°49	29°40	29°38	19°58	8° 4	M21
T 22	8 2 30	1°14'04	17°29	27°41	14°24	20° 5	13° 6	12°20	4°32	15°29	11°48	29°40	29°34	20° 5	8° 7	T 22
W23	8 6 26	2°15'08	0☾30	26°27	15°25	19°44	13°19	12°27	4°30	15°30	11°47	29°41	29°31	20°12	8°10	W23
T 24	8 10 23	3°16'11	13°30	25°17	16°26	19°23	13°31	12°34	4°28	15°31	11°45	29°41	29°28	20°19	8°14	T 24
F 25	8 14 20	4°17'14	27° 1	24°13	17°27	19° 2	13°44	12°42	4°26	15°31	11°44	29°R41	29°25	20°25	8°17	F 25
S 26	8 18 16	5°18'16	10☾50	23°17	18°29	18°40	13°57	12°49	4°24	15°32	11°43	29°41	29°22	20°32	8°20	S 26
S 27	8 22 13	6°19'17	24°55	22°29	19°31	18°17	14°10	12°56	4°22	15°33	11°42	29°41	29°18	20°39	8°24	S 27
M28	8 26 9	7°20'17	9☿11	21°50	20°34	17°55	14°23	13° 3	4°19	15°34	11°41	29°40	29°15	20°46	8°27	M28
T 29	8 30 6	8°21'16	23°34	21°20	21°36	17°32	14°36	13°10	4°17	15°34	11°39	29°39	29°12	20°52	8°31	T 29
W30	8 34 2	9°22'14	7☿58	20°58	22°40	17° 8	14°49	13°17	4°15	15°35	11°38	29°38	29° 9	20°59	8°34	W30
T 31	8 37 59	10☾23'10	22☿19	20☾46	23☿43	16♁45	15☿ 2	13☾25	4☿13	15♁35	11☿37	29☾37	29☾ 6	21♁ 6	8☿38	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23s 5	9s58	3s37	21s57	1s34	15s20	3n52	16n45	3n38	9s14	1s 7	18s30	0s46	10n22	0n47	14s42
W 2	23 0	5 11	4 26	21 33	1 25	15 30	3 53	16 49	3 41	9 10	1 7	18 28	0 46	10 23	0 47	14 42
T 3	22 55	0 7	5 0	21 9	1 16	15 39	3 54	16 54	3 43	9 6	1 7	18 26	0 46	10 23	0 47	14 42
F 4	22 49	4n59	5 15	20 44	1 6	15 49	3 55	16 58	3 45	9 1	1 7	18 25	0 46	10 24	0 47	14 43
S 5	22 43	9 49	5 11	20 19	0 54	16 0	3 56	17 3	3 48	8 57	1 7	18 23	0 46	10 24	0 47	14 43
S 6	22 36	14 7	4 48	19 54	0 42	16 10	3 57	17 8	3 50	8 53	1 7	18 21	0 46	10 25	0 47	14 44
M 7	22 29	17 35	4 8	19 29	0 28	16 20	3 57	17 13	3 53	8 48	1 6	18 19	0 46	10 25	0 47	14 44
T 8	22 22	20 0	3 13	19 5	0 13	16 31	3 57	17 19	3 55	8 44	1 6	18 17	0 46	10 26	0 47	14 44
W 9	22 14	21 11	2 8	18 42	0n 2	16 41	3 57	17 24	3 57	8 40	1 6	18 16	0 46	10 26	0 47	14 45
T 10	22 6	21 6	0 56	18 21	0 19	16 52	3 57	17 30	3 59	8 35	1 6	18 14	0 46	10 27	0 47	14 45
F 11	21 57	19 50	0n17	18 1	0 37	17 3	3 56	17 36	4 2	8 31	1 6	18 12	0 46	10 28	0 47	14 45
S 12	21 48	17 32	1 28	17 43	0 55	17 13	3 56	17 43	4 4	8 26	1 6	18 10	0 46	10 28	0 47	14 45
S 13	21 38	14 26	2 33	17 28	1 14	17 24	3 55	17 49	4 6	8 21	1 6	18 8	0 46	10 29	0 47	14 46
M14	21 28	10 45	3 29	17 16	1 32	17 34	3 54	17 56	4 8	8 17	1 6	18 6	0 46	10 29	0 47	14 46
T 15	21 18	6 42	4 15	17 6	1 51	17 45	3 53	18 3	4 10	8 12	1 6	18 4	0 46	10 30	0 47	14 46
W16	21 7	2 27	4 48	17 0	2 9	17 55	3 51	18 10	4 12	8 7	1 5	18 3	0 46	10 31	0 47	14 46
T 17	20 55	1s51	5 9	16 56	2 26	18 5	3 50	18 18	4 14	8 3	1 5	18 1	0 46	10 32	0 48	14 47
F 18	20 44	6 4	5 17	16 55	2 42	18 15	3 48	18 25	4 16	7 58	1 5	17 59	0 47	10 32	0 48	14 47
S 19	20 32	10 5	5 11	16 57	2 56	18 25	3 47	18 33	4 17	7 53	1 5	17 57	0 47	10 33	0 48	14 47
S 20	20 19	13 44	4 52	17 2	3 8	18 34	3 45	18 40	4 19	7 48	1 5	17 55	0 47	10 34	0 48	14 47
M21	20 6	16 53	4 19	17 8	3 18	18 44	3 43	18 48	4 21	7 43	1 5	17 53	0 47	10 34	0 48	14 48
T 22	19 53	19 19	3 33	17 16	3 25	18 53	3 41	18 56	4 22	7 38	1 5	17 51	0 47	10 35	0 48	14 48
W23	19 40	20 51	2 36	17 26	3 30	19 2	3 38	19 4	4 24	7 34	1 5	17 49	0 47	10 36	0 48	14 48
T 24	19 26	21 17	1 29	17 36	3 32	19 10	3 36	19 12	4 25	7 29	1 5	17 47	0 47	10 37	0 48	14 48
F 25	19 11	20 31	0 15	17 48	3 32	19 19	3 33	19 20	4 26	7 24	1 5	17 45	0 47	10 38	0 48	14 48
S 26	18 57	18 30	1s 1	17 59	3 30	19 27	3 31	19 28	4 27	7 19	1 5	17 43	0 47	10 38	0 48	14 48
S 27	18 42	15 21	2 15	18 11	3 25	19 34	3 28	19 36	4 29	7 13	1 5	17 41	0 47	10 39	0 48	14 49
M28	18 26	11 15	3 22	18 23	3 19	19 42	3 25	19 44	4 30	7 8	1 4	17 39	0 47	10 40	0 48	14 49
T 29	18 11	6 29	4 16	18 35	3 12	19 49	3 22	19 52	4 30	7 3	1 4	17 37	0 47	10 41	0 48	14 49
W30	17 55	1 21	4 54	18 47	3 4	19 55	3 19	20 0	4 31	6 58	1 4	17 35	0 47	10 42	0 48	14 49
T 31	17s38	3n50	5s14	18s58	2n54	20s 2	3n16	20n 8	4n32	6s53	1s 4	17s33	0s47	10n43	0n48	14s49

Julian Day Number = 2438030.5, Delta T = 34.47 sec

Ecliptic obliquity = 23°26'34", Nutation = - 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°13'25", Lahiri = 23°20'25"

# ASTRODIENST EPHEMERIS for the year 1963

## geocentric

FEBRUARY 1963

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 41 55	11°24'05	6°34	20°D41	24°47	16°R21	15°16	13°32	4°R10	15°36	11°R36	29°D36	29°3	21°12	8°41	F 1
S 2	8 45 52	12°24'59	20°40	20°344	25°51	15°57	15°29	13°39	4°8	15°36	11°34	29°36	28°59	21°19	8°45	S 2
S 3	8 49 49	13°25'52	4°36	20°55	26°55	15°33	15°42	13°46	4°5	15°37	11°33	29°37	28°56	21°26	8°48	S 3
M 4	8 53 45	14°26'43	18°20	21°12	27°59	15°9	15°56	13°53	4°3	15°37	11°32	29°38	28°53	21°33	8°52	M 4
T 5	8 57 42	15°27'33	18°52	21°35	29°4	14°45	16°9	14°0	4°1	15°38	11°30	29°39	28°50	21°39	8°55	T 5
W 6	9 1 38	16°28'22	15°12	22°4	0°3	14°21	16°23	14°8	3°58	15°38	11°29	29°41	28°47	21°46	8°59	W 6
T 7	9 5 35	17°29'09	28°19	22°38	1°15	13°57	16°36	14°15	3°56	15°38	11°28	29°R41	28°44	21°53	9°3	T 7
F 8	9 9 31	18°29'55	11°14	23°17	2°20	13°33	16°50	14°22	3°53	15°39	11°26	29°41	28°40	22°0	9°6	F 8
S 9	9 13 28	19°30'39	23°56	24°0	3°26	13°10	17°4	14°29	3°51	15°39	11°25	29°39	28°37	22°6	9°10	S 9
S 10	9 17 24	20°31'22	6°26	24°47	4°32	12°47	17°17	14°36	3°48	15°39	11°23	29°37	28°34	22°13	9°14	S 10
M 11	9 21 21	21°32'04	18°44	25°38	5°38	12°24	17°31	14°44	3°46	15°39	11°22	29°33	28°31	22°20	9°17	M 11
T 12	9 25 18	22°32'45	0°51	26°33	6°44	12°1	17°45	14°51	3°43	15°40	11°20	29°29	28°28	22°26	9°21	T 12
W 13	9 29 14	23°33'24	12°51	27°30	7°51	11°38	17°59	14°58	3°40	15°40	11°19	29°25	28°24	22°33	9°25	W 13
T 14	9 33 11	24°34'03	24°44	28°30	8°58	11°16	18°13	15°5	3°38	15°40	11°17	29°22	28°21	22°40	9°29	T 14
F 15	9 37 7	25°34'40	6°36	29°33	10°5	10°55	18°27	15°12	3°35	15°40	11°16	29°19	28°18	22°47	9°32	F 15
S 16	9 41 4	26°35'16	18°31	0°38	11°12	10°34	18°41	15°19	3°33	15°R40	11°14	29°17	28°15	22°53	9°36	S 16
S 17	9 45 0	27°35'51	0°32	1°45	12°19	10°13	18°55	15°26	3°30	15°40	11°13	29°D17	28°12	23°0	9°40	S 17
M 18	9 48 57	28°36'24	12°45	2°55	13°27	9°53	19°9	15°33	3°27	15°40	11°11	29°18	28°9	23°7	9°44	M 18
T 19	9 52 53	29°36'57	25°14	4°6	14°34	9°34	19°23	15°40	3°25	15°40	11°10	29°19	28°5	23°13	9°47	T 19
W 20	9 56 50	0°37'28	8°3	5°19	15°42	9°15	19°37	15°47	3°22	15°40	11°8	29°21	28°2	23°20	9°51	W 20
T 21	10 0 47	1°37'57	21°18	6°34	16°50	8°56	19°51	15°55	3°20	15°40	11°7	29°22	27°59	23°27	9°55	T 21
F 22	10 4 43	2°38'26	4°57	7°51	17°58	8°39	20°6	16°2	3°17	15°39	11°5	29°R23	27°56	23°34	9°59	F 22
S 23	10 8 40	3°38'53	19°1	9°9	19°6	8°22	20°20	16°9	3°14	15°39	11°4	29°21	27°53	23°40	10°3	S 23
S 24	10 12 36	4°39'18	3°28	10°29	20°15	8°5	20°34	16°15	3°12	15°39	11°2	29°18	27°50	23°47	10°7	S 24
M 25	10 16 33	5°39'41	18°11	11°50	21°23	7°50	20°48	16°22	3°9	15°39	11°1	29°13	27°46	23°54	10°10	M 25
T 26	10 20 29	6°40'03	3°3	13°12	22°32	7°35	21°3	16°29	3°6	15°38	10°59	29°7	27°43	24°1	10°14	T 26
W 27	10 24 26	7°40'23	17°55	14°36	23°41	7°21	21°17	16°36	3°4	15°38	10°57	29°2	27°40	24°7	10°18	W 27
T 28	10 28 22	8°40'41	2°40	16°1	24°50	7°1	21°31	16°43	3°1	15°38	10°56	28°56	27°37	24°14	10°22	T 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
F 1	17s22	8n46	5s14	19s 8	2n44	20s 8	3n13	20n16	4n32	6s48	1s 4	17s31	0s47	10n44	0n48	F 1
S 2	17 5	13 10	4 55	19 18	2 34	20 13	3 10	20 24	4 33	6 43	1 4	17 29	0 47	10 44	0 48	S 2
S 3	16 48	16 48	4 20	19 28	2 23	20 18	3 6	20 31	4 33	6 37	1 4	17 27	0 47	10 45	0 48	S 3
M 4	16 30	19 27	3 29	19 36	2 12	20 23	3 3	20 39	4 33	6 32	1 4	17 25	0 48	10 46	0 48	M 4
T 5	16 12	20 58	2 28	19 44	2 0	20 27	2 59	20 46	4 33	6 27	1 4	17 23	0 48	10 47	0 48	T 5
W 6	15 54	21 16	1 19	19 51	1 49	20 31	2 56	20 53	4 33	6 21	1 4	17 21	0 48	10 48	0 48	W 6
T 7	15 36	20 23	0 8	19 56	1 37	20 34	2 52	21 0	4 33	6 16	1 4	17 19	0 48	10 49	0 48	T 7
F 8	15 17	18 25	1n 3	20 1	1 26	20 37	2 48	21 7	4 33	6 11	1 4	17 17	0 48	10 50	0 48	F 8
S 9	14 58	15 35	2 10	20 5	1 15	20 40	2 44	21 13	4 33	6 5	1 4	17 15	0 48	10 51	0 48	S 9
S 10	14 39	12 5	3 9	20 8	1 4	20 41	2 41	21 20	4 32	6 0	1 4	17 13	0 48	10 52	0 48	S 10
M 11	14 20	8 6	3 58	20 9	0 53	20 43	2 37	21 26	4 32	5 54	1 4	17 11	0 48	10 53	0 48	M 11
T 12	14 0	3 52	4 36	20 10	0 42	20 44	2 33	21 32	4 31	5 49	1 4	17 9	0 48	10 54	0 48	T 12
W 13	13 40	0s27	5 1	20 9	0 32	20 44	2 29	21 37	4 30	5 44	1 4	17 7	0 48	10 55	0 48	W 13
T 14	13 20	4 44	5 13	20 7	0 21	20 44	2 25	21 43	4 30	5 38	1 3	17 5	0 48	10 55	0 48	T 14
F 15	13 0	8 49	5 11	20 4	0 11	20 43	2 21	21 48	4 29	5 33	1 3	17 3	0 48	10 56	0 48	F 15
S 16	12 39	12 35	4 56	20 0	0 2	20 42	2 17	21 53	4 28	5 27	1 3	17 1	0 48	10 57	0 48	S 16
S 17	12 19	15 53	4 28	19 54	0s 8	20 41	2 12	21 57	4 26	5 22	1 3	16 59	0 49	10 58	0 48	S 17
M 18	11 58	18 34	3 48	19 47	0 17	20 38	2 8	22 2	4 25	5 16	1 3	16 57	0 49	10 59	0 48	M 18
T 19	11 37	20 25	2 56	19 39	0 26	20 35	2 4	22 6	4 24	5 10	1 3	16 55	0 49	11 0	0 48	T 19
W 20	11 15	21 18	1 54	19 30	0 34	20 32	2 0	22 10	4 23	5 5	1 3	16 53	0 49	11 1	0 48	W 20
T 21	10 54	21 2	0 44	19 19	0 42	20 28	1 56	22 13	4 21	4 59	1 3	16 51	0 49	11 2	0 48	T 21
F 22	10 32	19 31	0s30	19 7	0 50	20 24	1 51	22 17	4 20	4 54	1 3	16 49	0 49	11 3	0 48	F 22
S 23	10 10	16 47	1 45	18 54	0 58	20 19	1 47	22 20	4 18	4 48	1 3	16 47	0 49	11 4	0 48	S 23
S 24	9 48	12 57	2 55	18 40	1 5	20 13	1 43	22 22	4 16	4 42	1 3	16 45	0 49	11 5	0 48	S 24
M 25	9 26	8 16	3 55	18 24	1 12	20 7	1 38	22 25	4 15	4 37	1 3	16 43	0 49	11 6	0 48	M 25
T 26	9 4	3 3	4 39	18 7	1 19	20 1	1 34	22 27	4 13	4 31	1 3	16 41	0 49	11 7	0 48	T 26
W 27	8 42	2n20	5 4	17 49	1 25	19 54	1 30	22 29	4 11	4 25	1 3	16 39	0 49	11 8	0 48	W 27
T 28	8s19	7n33	5s 9	17s29	1s31	19s46	1n26	22n30	4n 9	4s20	1s 3	16s37	0s50	11n 9	0n48	T 28

Julian Day Number = 2438061.5, Delta T = 34.51 sec

Ecliptic obliquity = 23°26'34, Nutation = - 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°13'29, Lahiri = 23°20'29

# ASTRODIENST EPHEMERIS for the year 1963

## geocentric

MARCH 1963

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 32 19	9°40'57	17°8'10	17°27'27	25°35'59	6°R55	21°H46	16°50	2°R59	15°R37	10°R54	28°R53	27°34	24°21	10°H26	F 1
S 2	10 36 15	10°41'11	1°11'23	18°54	27° 8	6°Q43	22° 0	16°57	2°M56	15°M37	10°M53	28°50	27°30	24°27	10°30	S 2
S 3	10 40 12	11°41'23	15°16	20°23	28°17	6°32	22°15	17° 3	2°53	15°36	10°51	28°D50	27°27	24°34	10°34	S 3
M 4	10 44 9	12°41'33	28°49	21°53	29°26	6°22	22°29	17°10	2°51	15°36	10°50	28°51	27°24	24°41	10°37	M 4
T 5	10 48 5	13°41'40	12°54	23°23	0°36	6°12	22°43	17°17	2°48	15°35	10°48	28°52	27°21	24°48	10°41	T 5
W 6	10 52 2	14°41'46	25° 3	24°55	1°45	6° 4	22°58	17°24	2°46	15°35	10°46	28°R53	27°18	24°54	10°45	W 6
T 7	10 55 58	15°41'49	7°Q49	26°29	2°55	5°56	23°12	17°30	2°43	15°34	10°45	28°53	27°15	25° 1	10°49	T 7
F 8	10 59 55	16°41'51	20°24	28° 3	4° 4	5°49	23°27	17°37	2°40	15°33	10°43	28°51	27°11	25° 8	10°53	F 8
S 9	11 3 51	17°41'50	2°M48	29°38	5°14	5°43	23°41	17°43	2°38	15°33	10°42	28°46	27° 8	25°14	10°57	S 9
S 10	11 7 48	18°41'48	15° 4	1°H15	6°24	5°37	23°56	17°50	2°35	15°32	10°40	28°39	27° 5	25°21	11° 0	S 10
M 11	11 11 44	19°41'43	27°12	2°52	7°34	5°32	24°10	17°56	2°33	15°31	10°39	28°30	27° 2	25°28	11° 4	M 11
T 12	11 15 41	20°41'36	9°Q13	4°31	8°44	5°28	24°25	18° 3	2°30	15°31	10°37	28°20	26°59	25°35	11° 8	T 12
W 13	11 19 38	21°41'28	21°10	6°11	9°54	5°25	24°39	18° 9	2°28	15°30	10°36	28° 9	26°55	25°41	11°12	W 13
T 14	11 23 34	22°41'18	3°M 2	7°52	11° 4	5°23	24°54	18°16	2°26	15°29	10°34	27°59	26°52	25°48	11°16	T 14
F 15	11 27 31	23°41'06	14°54	9°35	12°15	5°21	25° 9	18°22	2°23	15°28	10°33	27°51	26°49	25°55	11°19	F 15
S 16	11 31 27	24°40'53	26°48	11°18	13°25	5°20	25°23	18°28	2°21	15°27	10°31	27°45	26°46	26° 2	11°23	S 16
S 17	11 35 24	25°40'37	8°Q47	13° 3	14°36	5°D20	25°38	18°35	2°18	15°26	10°30	27°41	26°43	26° 8	11°27	S 17
M 18	11 39 20	26°40'20	20°56	14°49	15°46	5°21	25°52	18°41	2°16	15°26	10°28	27°39	26°40	26°15	11°31	M 18
T 19	11 43 17	27°40'02	3°Q21	16°36	16°57	5°22	26° 7	18°47	2°14	15°25	10°27	27°D39	26°36	26°22	11°34	T 19
W 20	11 47 13	28°39'41	16° 6	18°24	18° 7	5°24	26°21	18°53	2°12	15°24	10°25	27°40	26°33	26°28	11°38	W 20
T 21	11 51 10	29°39'19	29°15	20°14	19°18	5°27	26°36	18°59	2° 9	15°23	10°24	27°R40	26°30	26°35	11°42	T 21
F 22	11 55 7	0°Y38'55	12°52	22° 5	20°29	5°30	26°50	19° 5	2° 7	15°22	10°22	27°39	26°27	26°42	11°45	F 22
S 23	11 59 3	1°38'29	26°58	23°57	21°40	5°34	27° 5	19°11	2° 5	15°21	10°21	27°36	26°24	26°49	11°49	S 23
S 24	12 3 0	2°38'02	11°H31	25°51	22°51	5°39	27°19	19°17	2° 3	15°19	10°19	27°30	26°21	26°55	11°53	S 24
M 25	12 6 56	3°37'32	26°27	27°45	24° 2	5°44	27°34	19°23	2° 1	15°18	10°18	27°22	26°17	27° 2	11°56	M 25
T 26	12 10 53	4°37'00	11°Y38	29°41	25°13	5°50	27°48	19°29	1°58	15°17	10°16	27°12	26°14	27° 9	12° 0	T 26
W 27	12 14 49	5°36'27	26°52	1°Y38	26°24	5°57	28° 3	19°34	1°56	15°16	10°15	27° 2	26°11	27°15	12° 4	W 27
T 28	12 18 46	6°35'51	11°H59	3°37	27°35	6° 5	28°17	19°40	1°54	15°15	10°14	26°52	26° 8	27°22	12° 7	T 28
F 29	12 22 42	7°35'13	26°50	5°36	28°46	6°13	28°32	19°46	1°52	15°14	10°12	26°45	26° 5	27°29	12°11	F 29
S 30	12 26 39	8°34'33	11°H17	7°37	29°57	6°21	28°46	19°51	1°50	15°13	10°11	26°40	26° 1	27°36	12°14	S 30
S 31	12 30 36	9°Y33'50	25°H18	9°Y38	1°H 8	6°Q30	29°H 1	19°57	1°M48	15°M11	10°M10	26°Q37	25°Q58	27°Q42	12°H18	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	7s56	12n15	4s54	17s 8	1s36	19s38	1n21	22n32	4n 7	4s14	1s 3	16s35	0s50	11n10	0n48	F 1
S 2	7 34	16 10	4 22	16 46	1 41	19 29	1 17	22 33	4 5	4 8	1 3	16 33	0 50	11 11	0 48	S 2
S 3	7 11 19	5 3 34	16 22	1 46	19 19	1 13	22 34	4 3	4 3	1 3	16 31	0 50	11 12	0 48	14 48	S 3
M 4	6 48	20 51	2 36	15 58	1 51	19 9	1 8	22 35	4 1	3 57	1 3	16 29	0 50	11 13	0 48	M 4
T 5	6 25	21 24	1 30	15 32	1 55	18 59	1 4	22 35	3 59	3 51	1 3	16 27	0 50	11 14	0 48	T 5
W 6	6 2	20 47	0 21	15 4	1 58	18 48	1 0	22 35	3 57	3 46	1 3	16 25	0 50	11 14	0 48	W 6
T 7	5 38	19 5	0n48	14 36	2 2	18 37	0 56	22 35	3 55	3 40	1 3	16 23	0 50	11 15	0 48	T 7
F 8	5 15	16 29	1 53	14 6	2 5	18 25	0 51	22 35	3 53	3 34	1 3	16 21	0 50	11 16	0 48	F 8
S 9	4 52	13 9	2 52	13 35	2 7	18 12	0 47	22 34	3 51	3 28	1 3	16 19	0 50	11 17	0 48	S 9
S 10	4 28	9 18	3 42	13 3	2 9	17 59	0 43	22 33	3 48	3 23	1 3	16 17	0 51	11 18	0 48	S 10
M 11	4 5	5 7	4 21	12 29	2 11	17 45	0 39	22 33	3 46	3 17	1 3	16 16	0 51	11 19	0 48	M 11
T 12	3 41	0 46	4 49	11 54	2 12	17 31	0 35	22 31	3 44	3 11	1 3	16 14	0 51	11 20	0 48	T 12
W 13	3 18	3s34	5 3	11 18	2 13	17 17	0 31	22 30	3 42	3 5	1 3	16 12	0 51	11 21	0 48	W 13
T 14	2 54	7 46	5 4	10 41	2 13	17 2	0 27	22 28	3 40	3 0	1 3	16 10	0 51	11 22	0 48	T 14
F 15	2 30	11 39	4 52	10 2	2 13	16 46	0 23	22 27	3 37	2 54	1 3	16 8	0 51	11 22	0 48	F 15
S 16	2 7	15 6	4 27	9 23	2 13	16 30	0 19	22 25	3 35	2 48	1 3	16 6	0 51	11 23	0 48	S 16
S 17	1 43	17 58	3 51	8 42	2 12	16 13	0 15	22 23	3 33	2 42	1 3	16 4	0 51	11 24	0 48	S 17
M 18	1 19	20 5	3 3	7 59	2 11	15 56	0 11	22 20	3 31	2 37	1 3	16 3	0 51	11 25	0 48	M 18
T 19	0 56	21 18	2 6	7 16	2 9	15 39	0 7	22 18	3 28	2 31	1 3	16 1	0 52	11 26	0 48	T 19
W 20	0 32	21 27	1 1	6 31	2 6	15 21	0 3	22 15	3 26	2 25	1 3	15 59	0 52	11 27	0 48	W 20
T 21	0 8	20 27	0s 8	5 46	2 3	15 3	0s 1	22 12	3 24	2 19	1 3	15 57	0 52	11 27	0 48	T 21
F 22	0n15	18 14	1 20	4 59	2 0	14 44	0 4	22 9	3 22	2 14	1 3	15 56	0 52	11 28	0 48	F 22
S 23	0 39	14 52	2 29	4 11	1 56	14 25	0 8	22 6	3 20	2 8	1 3	15 54	0 52	11 29	0 48	S 23
S 24	1 3	10 30	3 31	3 22	1 52	14 5	0 12	22 3	3 17	2 2	1 3	15 52	0 52	11 30	0 48	S 24
M 25	1 26	5 23	4 20	2 32	1 47	13 45	0 15	22 0	3 15	1 56	1 3	15 50	0 52	11 30	0 48	M 25
T 26	1 50	0n 8	4 51	1 41	1 41	13 25	0 19	21 56	3 13	1 51	1 3	15 49	0 52	11 31	0 48	T 26
W 27	2 14	5 39	5 2	0 49	1 35	13 4	0 22	21 52	3 11	1 45	1 4	15 47	0 53	11 32	0 48	W 27
T 28	2 37	10 48	4 52	0n 4	1 29	12 43	0 26	21 48	3 9	1 39	1 4	15 45	0 53	11 33	0 48	T 28
F 29	3 1	15 12	4 22	0 58	1 22	12 22	0 29	21 44	3 7	1 34	1 4	15 44	0 53	11 33	0 48	F 29
S 30	3 24	18 34	3 36	1 53	1 14	12 0	0 32	21 40	3 4	1 28	1 4	15 42	0 53	11 34	0 48	S 30
S 31	3n47	20n44	2s38	2n48	1s 6	11s38	0s36	21n35	3n 2	1s22	1s 4	15s40	0s53	11n35	0n48	S 31

Julian Day Number = 2438089.5, Delta T = 34.55 sec  
 Ecliptic obliquity = 23°26'35, Nutation = - 0°00'15, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°13'33, Lahiri = 23°20'33

# ASTRODIENST EPHEMERIS for the year 1963

## geocentric

APRIL 1963

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 34 32	10°33'05	8°53	11°40	2°20	6°40	29°15	20°28	1°47	15°10	10°R 8	26°D36	25°55	27°49	12°21	M 1
T 2	12 38 29	11°32'18	22° 4	13°43	3°31	6°50	29°29	20° 8	1°45	15°10	10°R 7	26°R37	25°52	27°56	12°25	T 2
W 3	12 42 25	12°31'28	4°55	15°47	4°42	7° 1	29°44	20°13	1°43	15° 7	10° 6	26°36	25°49	28° 3	12°28	W 3
T 4	12 46 22	13°30'36	17°29	17°51	5°54	7°13	29°58	20°18	1°41	15° 6	10° 4	26°35	25°46	28° 9	12°32	T 4
F 5	12 50 18	14°29'42	29°50	19°55	7° 5	7°25	0°12	20°23	1°39	15° 5	10° 3	26°31	25°42	28°16	12°35	F 5
S 6	12 54 15	15°28'46	12°10	21°59	8°17	7°37	0°27	20°28	1°38	15° 3	10° 2	26°24	25°39	28°23	12°38	S 6
S 7	12 58 11	16°27'47	24° 5	24° 3	9°28	7°50	0°41	20°33	1°36	15° 2	10° 1	26°14	25°36	28°29	12°42	S 7
M 8	13 2 8	17°26'46	6°4	26° 6	10°40	8° 4	0°55	20°38	1°35	15° 1	10° 0	26° 2	25°33	28°36	12°45	M 8
T 9	13 6 4	18°25'43	18° 0	28° 9	11°51	8°18	1° 9	20°43	1°33	14°59	9°58	25°48	25°30	28°43	12°48	T 9
W10	13 10 1	19°24'38	29°53	0°10	13° 3	8°32	1°23	20°48	1°31	14°58	9°57	25°34	25°26	28°50	12°52	W10
T 11	13 13 58	20°23'31	11°46	2° 9	14°14	8°47	1°38	20°53	1°30	14°56	9°56	25°20	25°23	28°56	12°55	T 11
F 12	13 17 54	21°22'22	23°39	4° 7	15°26	9° 3	1°52	20°58	1°29	14°55	9°55	25° 8	25°20	29° 3	12°58	F 12
S 13	13 21 51	22°21'12	5°35	6° 2	16°38	9°19	2° 6	21° 2	1°27	14°54	9°54	24°58	25°17	29°10	13° 1	S 13
S 14	13 25 47	23°19'59	17°36	7°54	17°50	9°35	2°20	21° 7	1°26	14°52	9°53	24°52	25°14	29°17	13° 4	S 14
M15	13 29 44	24°18'45	29°46	9°43	19° 1	9°52	2°34	21°11	1°25	14°51	9°52	24°48	25°11	29°23	13° 7	M15
T 16	13 33 40	25°17'29	12°10	11°29	20°13	10° 9	2°48	21°16	1°23	14°49	9°51	24°47	25° 7	29°30	13°10	T 16
W17	13 37 37	26°16'11	24°51	13°12	21°25	10°26	3° 2	21°20	1°22	14°48	9°50	24°47	25° 4	29°37	13°13	W17
T 18	13 41 33	27°14'52	7°54	14°50	22°37	10°44	3°16	21°24	1°21	14°46	9°49	24°46	25° 1	29°43	13°16	T 18
F 19	13 45 30	28°13'31	21°23	16°25	23°49	11° 3	3°30	21°29	1°20	14°44	9°48	24°45	25°08	29°50	13°19	F 19
S 20	13 49 27	29°12'09	5°22	17°55	25° 1	11°21	3°43	21°33	1°19	14°43	9°47	24°42	24°55	29°57	13°22	S 20
S 21	13 53 23	0°10'44	19°49	19°20	26°13	11°40	3°57	21°37	1°18	14°41	9°46	24°36	24°52	0°10	13°25	S 21
M22	13 57 20	1° 9'18	4°41	20°41	27°25	12° 0	4°11	21°41	1°17	14°40	9°45	24°27	24°48	0°10	13°28	M22
T 23	14 1 16	2° 7'50	19°53	21°57	28°37	12°20	4°25	21°45	1°16	14°38	9°44	24°17	24°45	0°17	13°31	T 23
W24	14 5 13	3° 6'20	5°13	23° 9	29°49	12°40	4°38	21°48	1°15	14°37	9°44	24° 6	24°42	0°24	13°34	W24
T 25	14 9 9	4° 4'49	20°30	24°15	1°10	13° 1	4°52	21°52	1°14	14°35	9°43	23°55	24°39	0°30	13°36	T 25
F 26	14 13 6	5° 3'15	5°13	25°16	2°13	13°22	5° 5	21°56	1°14	14°33	9°42	23°47	24°36	0°37	13°39	F 26
S 27	14 17 2	6° 1'40	20°13	26°12	3°25	13°43	5°19	21°59	1°13	14°32	9°41	23°41	24°32	0°44	13°42	S 27
S 28	14 20 59	7° 0'03	4°25	27° 3	4°37	14° 5	5°32	22° 3	1°12	14°30	9°41	23°38	24°29	0°51	13°44	S 28
M29	14 24 56	7°58'23	18° 9	27°49	5°50	14°26	5°46	22° 6	1°12	14°29	9°40	23°D36	24°26	0°57	13°47	M29
T 30	14 28 52	8°56'41	1°24	28°29	7°10	14°49	5°59	22°28	1°10	14°27	9°39	23°36	24°23	1°10	13°50	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	4n11	21n36	1s33	3n44	0s58	11s15	0s39	21n31	3n 0	1s16	1s 4	15s39	0s53	11n35	0n48	M 1
T 2	4 34	21 14	0 24	4 40	0 49	10 52	0 42	21 26	2 58	1 11	1 4	15 37	0 53	11 36	0 48	T 2
W 3	4 57	19 45	0n44	5 36	0 40	10 29	0 45	21 22	2 56	1 5	1 4	15 36	0 53	11 36	0 48	W 3
T 4	5 20	17 19	1 48	6 33	0 30	10 5	0 48	21 17	2 54	0 59	1 4	15 34	0 54	11 37	0 48	T 4
F 5	5 43	14 7	2 46	7 29	0 19	9 42	0 51	21 12	2 52	0 54	1 4	15 33	0 54	11 38	0 48	F 5
S 6	6 6	10 22	3 35	8 26	0 9	9 18	0 53	21 6	2 50	0 48	1 4	15 31	0 54	11 38	0 48	S 6
S 7	6 28	6 15	4 14	9 22	0n 2	8 53	0 56	21 1	2 48	0 43	1 4	15 30	0 54	11 39	0 48	S 7
M 8	6 51	1 54	4 42	10 17	0 13	8 29	0 59	20 56	2 46	0 37	1 4	15 28	0 54	11 39	0 47	M 8
T 9	7 14	2s29	4 57	11 12	0 24	8 4	1 1	20 50	2 44	0 31	1 4	15 27	0 54	11 40	0 47	T 9
W10	7 36	6 46	4 59	12 5	0 36	7 39	1 4	20 44	2 42	0 26	1 4	15 25	0 54	11 40	0 47	W10
T 11	7 58	10 48	4 48	12 57	0 47	7 13	1 6	20 39	2 40	0 20	1 4	15 24	0 55	11 41	0 47	T 11
F 12	8 20	14 26	4 24	13 48	0 58	6 48	1 9	20 33	2 38	0 15	1 4	15 23	0 55	11 41	0 47	F 12
S 13	8 42	17 29	3 49	14 37	1 9	6 22	1 11	20 27	2 37	0 9	1 5	15 21	0 55	11 42	0 47	S 13
S 14	9 4	19 50	3 3	15 24	1 20	5 56	1 13	20 20	2 35	0 4	1 5	15 20	0 55	11 42	0 47	S 14
M15	9 26	21 19	2 8	16 10	1 31	5 30	1 16	20 14	2 33	0n 2	1 5	15 19	0 55	11 43	0 47	M15
T 16	9 47	21 47	1 6	16 53	1 41	5 4	1 18	20 8	2 31	0 7	1 5	15 17	0 55	11 43	0 47	T 16
W17	10 8	21 10	0s 0	17 33	1 50	4 37	1 20	20 1	2 29	0 13	1 5	15 16	0 56	11 43	0 47	W17
T 18	10 30	19 24	1 9	18 11	1 59	4 11	1 22	19 54	2 27	0 18	1 5	15 15	0 56	11 44	0 47	T 18
F 19	10 51	16 31	2 16	18 47	2 8	3 44	1 23	19 48	2 26	0 24	1 5	15 14	0 56	11 44	0 47	F 19
S 20	11 12	12 36	3 17	19 20	2 15	3 17	1 25	19 41	2 24	0 29	1 5	15 12	0 56	11 45	0 47	S 20
S 21	11 32	7 50	4 7	19 51	2 22	2 50	1 27	19 34	2 22	0 34	1 5	15 11	0 56	11 45	0 47	S 21
M22	11 53	2 28	4 43	20 19	2 29	2 23	1 28	19 27	2 20	0 40	1 5	15 10	0 56	11 45	0 47	M22
T 23	12 13	3n 9	5 0	20 44	2 34	1 56	1 30	19 19	2 19	0 45	1 5	15 9	0 56	11 45	0 47	T 23
W24	12 33	8 37	4 55	21 7	2 38	1 28	1 31	19 12	2 17	0 50	1 6	15 8	0 57	11 46	0 47	W24
T 25	12 53	13 33	4 29	21 27	2 42	1 1	1 33	19 4	2 15	0 56	1 6	15 7	0 57	11 46	0 47	T 25
F 26	13 13	17 32	3 45	21 44	2 44	0 33	1 34	18 57	2 14	1 1	1 6	15 6	0 57	11 46	0 47	F 26
S 27	13 32	20 19	2 47	21 59	2 46	0 6	1 35	18 49	2 12	1 6	1 6	15 5	0 57	11 46	0 47	S 27
S 28	13 51	21 42	1 40	22 12	2 46	0n22	1 36	18 41	2 10	1 11	1 6	15 4	0 57	11 47	0 47	S 28
M29	14 10	21 44	0 29	22 22	2 45	0 49	1 37	18 33	2 9	1 17	1 6	15 3	0 57	11 47	0 47	M29
T 30	14n29	20n31	0n41	22n29	2n44	1n17	1s38	18n25	2n 7	1n22	1s 6	15s 2	0s58	11n47	0n47	T 30

Julian Day Number = 2438120.5, Delta T = 34.60 sec

Ecliptic obliquity = 23°26'35, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°13'37, Lahiri = 23°20'37

## ASTRODIENST EPHEMERIS for the year 1963

geocentric

MAY 1963

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 32 49	9♂54'58	14♂16	29♂ 3	8♂14	15♂11	6♂12	22♂13	1°R11	14°R25	9°R39	23°R37	24♂20	1♂11	13♂52	W 1
T 2	14 36 45	10°53'12	26°48	29°33	9°26	15°34	6°26	22°16	1°10	14°10	9°38	23°35	24°17	1°18	13°55	T 2
F 3	14 40 42	11°51'24	9♂14	29°56	10°38	15°57	6°39	22°19	1°10	14°22	9°37	23°32	24°13	1°24	13°57	F 3
S 4	14 44 38	12°49'34	21°10	0♂15	11°50	16°21	6°52	22°22	1°10	14°20	9°37	23°27	24°10	1°31	13°59	S 4
S 5	14 48 35	13°47'42	3♂ 8	0°27	13° 3	16°44	7° 5	22°25	1° 9	14°19	9°36	23°18	24° 7	1°38	14° 2	S 5
M 6	14 52 31	14°45'48	15° 2	0°35	14°15	17° 8	7°18	22°27	1° 9	14°17	9°36	23° 8	24° 4	1°44	14° 4	M 6
T 7	14 56 28	15°43'53	26°54	0°R37	15°27	17°33	7°31	22°30	1° 9	14°16	9°35	22°56	24° 1	1°51	14° 6	T 7
W 8	15 0 25	16°41'55	8♂47	0°34	16°40	17°57	7°44	22°33	1° 9	14°14	9°35	22°43	23°58	1°58	14° 8	W 8
T 9	15 4 21	17°39'56	20°41	0°27	17°52	18°22	7°56	22°35	1°D 9	14°12	9°35	22°31	23°54	2° 5	14°11	T 9
F 10	15 8 18	18°37'56	2♂39	0°14	19° 4	18°47	8° 9	22°38	1° 9	14°11	9°34	22°21	23°51	2°11	14°13	F 10
S 11	15 12 14	19°35'54	14°41	29♂57	20°17	19°12	8°22	22°40	1° 9	14° 9	9°34	22°13	23°48	2°18	14°15	S 11
S 12	15 16 11	20°33'50	26°50	29°37	21°29	19°38	8°34	22°42	1° 9	14° 7	9°34	22° 7	23°45	2°25	14°17	S 12
M13	15 20 7	21°31'46	9♂ 7	29°12	22°41	20° 3	8°47	22°44	1° 9	14° 6	9°33	22° 4	23°42	2°31	14°19	M13
T 14	15 24 4	22°29'39	21°37	28°45	23°54	20°29	8°59	22°46	1° 9	14° 4	9°33	22°D 4	23°38	2°38	14°21	T 14
W15	15 28 0	23°27'32	4♂21	28°14	25° 6	20°55	9°12	22°48	1°10	14° 3	9°33	22° 4	23°35	2°45	14°22	W15
T 16	15 31 57	24°25'23	17°25	27°42	26°19	21°22	9°24	22°50	1°10	14° 1	9°33	22° 5	23°32	2°52	14°24	T 16
F 17	15 35 54	25°23'13	0♂50	27° 8	27°31	21°49	9°36	22°52	1°10	13°59	9°33	22°R 5	23°29	2°58	14°26	F 17
S 18	15 39 50	26°21'02	14°40	26°33	28°43	22°15	9°48	22°53	1°11	13°58	9°32	22° 3	23°26	3° 5	14°28	S 18
S 19	15 43 47	27°18'50	28°55	25°58	29°56	22°42	10° 0	22°55	1°11	13°56	9°32	22° 0	23°23	3°12	14°29	S 19
M20	15 47 43	28°16'36	13♂34	25°24	1♂ 8	23°10	10°12	22°56	1°12	13°55	9°32	21°54	23°19	3°19	14°31	M20
T 21	15 51 40	29°14'22	28°31	24°50	2°21	23°37	10°24	22°58	1°12	13°53	9°32	21°47	23°16	3°25	14°33	T 21
W22	15 55 36	0♂12'06	13♂39	24°17	3°33	24° 5	10°36	22°59	1°13	13°51	9°D32	21°39	23°13	3°32	14°34	W22
T 23	15 59 33	1° 9'49	28°49	23°47	4°46	24°33	10°48	23° 0	1°14	13°50	9°32	21°32	23°10	3°39	14°36	T 23
F 24	16 3 29	2° 7'31	13♂49	23°19	5°59	25° 1	11° 0	23° 1	1°15	13°48	9°32	21°26	23° 7	3°45	14°37	F 24
S 25	16 7 26	3° 5'12	28°30	22°54	7°11	25°29	11°11	23° 2	1°15	13°47	9°32	21°22	23° 4	3°52	14°38	S 25
S 26	16 11 23	4° 2'51	12♂48	22°33	8°24	25°58	11°23	23° 3	1°16	13°45	9°33	21°20	23° 0	3°59	14°40	S 26
M27	16 15 19	5° 0'29	26°38	22°15	9°36	26°26	11°34	23° 4	1°17	13°44	9°33	21°D20	22°57	4° 6	14°41	M27
T 28	16 19 16	5°58'05	10♂ 0	22° 1	10°49	26°55	11°45	23° 5	1°18	13°42	9°33	21°21	22°54	4°12	14°42	T 28
W29	16 23 12	6°55'40	22°57	21°51	12° 2	27°24	11°56	23° 5	1°19	13°41	9°33	21°22	22°51	4°19	14°43	W29
T 30	16 27 9	7°53'13	5♂32	21°45	13°14	27°53	12° 7	23° 6	1°20	13°39	9°33	21°R23	22°48	4°26	14°44	T 30
F 31	16 31 5	8♂50'45	17♂50	21°D44	14♂27	28♂23	12♂18	23♂ 6	1°21	13♂38	9♂34	21♂22	22♂44	4♂32	14♂45	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	14n47	18n16	1n47	22n34	2n41	1n45	1s39	18n17	2n 6	1n27	1s 6	15s 1	0s58	11n47	0n47	14s25
T 2	15 6	15 11	2 46	22 36	2 36	2 12	1 40	18 9	2 4	1 32	1 6	15 0	0 58	11 47	0 47	14 25
F 3	15 24	11 30	3 36	22 36	2 31	2 40	1 41	18 0	2 2	1 37	1 7	14 59	0 58	11 47	0 47	14 24
S 4	15 41	7 25	4 16	22 34	2 25	3 8	1 41	17 52	2 1	1 42	1 7	14 59	0 58	11 47	0 47	14 24
S 5	15 59	3 5	4 44	22 29	2 17	3 35	1 42	17 43	1 59	1 47	1 7	14 58	0 58	11 47	0 47	14 23
M 6	16 16	1s20	4 59	22 22	2 8	4 3	1 42	17 34	1 58	1 52	1 7	14 57	0 59	11 47	0 46	14 23
T 7	16 33	5 41	5 1	22 12	1 58	4 30	1 43	17 25	1 56	1 57	1 7	14 56	0 59	11 47	0 46	14 22
W 8	16 50	9 51	4 50	22 1	1 47	4 58	1 43	17 17	1 55	2 2	1 7	14 56	0 59	11 47	0 46	14 22
T 9	17 6	13 38	4 27	21 47	1 34	5 25	1 43	17 7	1 53	2 7	1 7	14 55	0 59	11 47	0 46	14 21
F 10	17 22	16 55	3 51	21 32	1 21	5 52	1 43	16 58	1 52	2 12	1 7	14 54	0 59	11 47	0 46	14 21
S 11	17 38	19 30	3 5	21 14	1 7	6 20	1 44	16 49	1 51	2 17	1 8	14 54	0 59	11 47	0 46	14 20
S 12	17 54	21 14	2 10	20 55	0 52	6 47	1 44	16 40	1 49	2 22	1 8	14 53	1 0	11 47	0 46	14 20
M13	18 9	21 59	1 9	20 34	0 36	7 14	1 43	16 30	1 48	2 27	1 8	14 53	1 0	11 47	0 46	14 19
T 14	18 24	21 40	0 2	20 12	0 19	7 40	1 43	16 20	1 46	2 31	1 8	14 52	1 0	11 47	0 46	14 19
W15	18 38	20 14	1s 5	19 49	0 2	8 7	1 43	16 11	1 45	2 36	1 8	14 52	1 0	11 47	0 46	14 18
T 16	18 53	17 42	2 11	19 24	0s15	8 34	1 43	16 1	1 44	2 41	1 8	14 51	1 0	11 47	0 46	14 18
F 17	19 7	14 10	3 12	19 0	0 33	9 0	1 42	15 51	1 42	2 45	1 8	14 51	1 0	11 47	0 46	14 17
S 18	19 20	9 47	4 4	18 34	0 50	9 26	1 42	15 41	1 41	2 50	1 9	14 51	1 1	11 46	0 46	14 17
S 19	19 34	4 44	4 42	18 9	1 8	9 52	1 41	15 31	1 39	2 55	1 9	14 50	1 1	11 46	0 46	14 17
M20	19 47	0n42	5 3	17 45	1 25	10 18	1 41	15 21	1 38	2 59	1 9	14 50	1 1	11 46	0 46	14 16
T 21	19 59	6 13	5 4	17 20	1 41	10 43	1 40	15 10	1 37	3 4	1 9	14 50	1 1	11 46	0 46	14 16
W22	20 12	11 25	4 44	16 57	1 57	11 9	1 39	15 0	1 36	3 8	1 9	14 49	1 1	11 45	0 46	14 15
T 23	20 24	15 55	4 4	16 35	2 13	11 34	1 39	14 49	1 34	3 13	1 9	14 49	1 2	11 45	0 46	14 15
F 24	20 35	19 21	3 8	16 14	2 27	11 59	1 38	14 39	1 33	3 17	1 10	14 49	1 2	11 45	0 46	14 14
S 25	20 47	21 26	2 0	15 54	2 41	12 23	1 37	14 28	1 32	3 21	1 10	14 49	1 2	11 45	0 46	14 14
S 26	20 58	22 4	0 46	15 37	2 53	12 48	1 36	14 17	1 30	3 26	1 10	14 49	1 2	11 44	0 46	14 13
M27	21 8	21 18	0n29	15 21	3 5	13 12	1 35	14 6	1 29	3 30	1 10	14 49	1 2	11 44	0 46	14 13
T 28	21 18	19 20	1 39	15 8	3 15	13 35	1 34	13 55	1 28	3 34	1 10	14 49	1 2	11 43	0 46	14 13
W29	21 28	16 26	2 43	14 56	3 24	13 59	1 32	13 44	1 27	3 38	1 10	14 49	1 3	11 43	0 46	14 12
T 30	21 38	12 50	3 36	14 47	3 32	14 22	1 31	13 33	1 26	3 43	1 11	14 49	1 3	11 43	0 46	14 12
F 31	21n47	8n46	4n18	14n40	3s39	14n45	1s30	13n21	1n24	3n47	1s11	14s49	1s 3	11n42	0n45	14s11

Julian Day Number = 2438150.5, Delta T = 34.64 sec

Ecliptic obliquity = 23°26'35", Nutation = - 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°13'41", Lahiri = 23°20'42"

# ASTRODIENST EPHEMERIS for the year 1963

## geocentric

JUNE 1963

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 35 2	9II48'16	29III56	21I847	15I839	28II52	12V29	23III6	1III22	13°R37	9III34	21°R20	22III41	4III39	14III46	S 1
S 2	16 38 58	10°45'45	11II52	21°55	16°52	29°22	12°40	23° 7	1°24	13III35	9°34	21III16	22°38	4°46	14°47	S 2
M 3	16 42 55	11°43'13	23°45	22° 7	18° 5	29°52	12°51	23°R 7	1°25	13°34	9°35	21°11	22°35	4°53	14°48	M 3
T 4	16 46 52	12°40'40	5III37	22°24	19°17	0III22	13° 1	23° 7	1°26	13°32	9°35	21° 5	22°32	4°59	14°49	T 4
W 5	16 50 48	13°38'06	17°31	22°45	20°30	0°52	13°12	23° 7	1°28	13°31	9°35	20°58	22°29	5° 6	14°50	W 5
T 6	16 54 45	14°35'31	29°30	23°10	21°43	1°22	13°22	23° 6	1°29	13°30	9°36	20°51	22°25	5°13	14°51	T 6
F 7	16 58 41	15°32'54	11I834	23°40	22°56	1°53	13°32	23° 6	1°31	13°28	9°36	20°46	22°22	5°20	14°51	F 7
S 8	17 2 38	16°30'17	23°47	24°14	24° 8	2°24	13°43	23° 6	1°32	13°27	9°37	20°41	22°19	5°26	14°52	S 8
S 9	17 6 34	17°27'39	6III9	24°52	25°21	2°54	13°53	23° 5	1°34	13°26	9°37	20°39	22°16	5°33	14°52	S 9
M10	17 10 31	18°25'01	18°41	25°34	26°34	3°25	14° 3	23° 5	1°35	13°24	9°38	20°D38	22°13	5°40	14°53	M10
T 11	17 14 27	19°22'21	1III25	26°20	27°47	3°56	14°12	23° 4	1°37	13°23	9°39	20°38	22°10	5°46	14°53	T 11
W12	17 18 24	20°19'41	14°22	27°10	28°59	4°27	14°22	23° 3	1°39	13°22	9°39	20°40	22° 6	5°53	14°54	W12
T 13	17 22 21	21°17'01	27°35	28° 3	0III12	4°59	14°32	23° 2	1°40	13°21	9°40	20°41	22° 3	6° 0	14°54	T 13
F 14	17 26 17	22°14'20	11I85	29° 1	1°25	5°30	14°41	23° 1	1°42	13°20	9°41	20°42	22° 0	6° 7	14°54	F 14
S 15	17 30 14	23°11'39	24°53	0III2	2°38	6° 2	14°50	23° 0	1°44	13°18	9°41	20°R43	21°57	6°13	14°54	S 15
S 16	17 34 10	24° 8'57	8V59	1° 6	3°51	6°34	15° 0	22°59	1°46	13°17	9°42	20°42	21°54	6°20	14°55	S 16
M17	17 38 7	25° 6'15	23°23	2°14	5° 4	7° 5	15° 9	22°58	1°48	13°16	9°43	20°40	21°50	6°27	14°55	M17
T 18	17 42 3	26° 3'33	8I0	3°26	6°17	7°37	15°18	22°56	1°50	13°15	9°44	20°37	21°47	6°33	14°R55	T 18
W19	17 46 0	27° 0'50	22°46	4°41	7°30	8°10	15°26	22°55	1°52	13°14	9°44	20°34	21°44	6°40	14°55	W19
T 20	17 49 56	27°58'08	7II34	5°59	8°43	8°42	15°35	22°53	1°54	13°13	9°45	20°31	21°41	6°47	14°55	T 20
F 21	17 53 53	28°55'24	22°16	7°21	9°56	9°14	15°44	22°52	1°56	13°12	9°46	20°29	21°38	6°54	14°55	F 21
S 22	17 57 50	29°52'41	6III45	8°46	11° 9	9°47	15°52	22°50	1°58	13°11	9°47	20°27	21°35	7° 0	14°54	S 22
S 23	18 1 46	0III49'57	20°55	10°14	12°22	10°20	16° 1	22°48	2° 1	13°10	9°48	20°D27	21°31	7° 7	14°54	S 23
M24	18 5 43	1°47'12	4II42	11°45	13°35	10°52	16° 9	22°46	2° 3	13° 9	9°49	20°27	21°28	7°14	14°54	M24
T 25	18 9 39	2°44'27	18° 6	13°20	14°48	11°25	16°17	22°44	2° 5	13° 8	9°50	20°28	21°25	7°20	14°54	T 25
W26	18 13 36	3°41'42	1III6	14°58	16° 1	11°58	16°25	22°42	2° 7	13° 7	9°51	20°30	21°22	7°27	14°53	W26
T 27	18 17 32	4°38'55	13°45	16°39	17°14	12°31	16°32	22°40	2°10	13° 6	9°52	20°31	21°19	7°34	14°53	T 27
F 28	18 21 29	5°36'09	26° 6	18°23	18°27	13° 5	16°40	22°38	2°12	13° 5	9°53	20°32	21°16	7°41	14°52	F 28
S 29	18 25 25	6°33'21	8II13	20° 9	19°40	13°38	16°47	22°35	2°15	13° 4	9°54	20°R32	21°12	7°47	14°52	S 29
S 30	18 29 22	7III30'34	20II11	21II59	20II53	14III11	16V55	22III33	2III17	13III4	9III55	20III32	21III9	7III54	14III51	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
S 1	21n55	4n26 4n48	14n35 3s45	15n 7 1s29	13n10 1n23	3n51 1s11	14s49 1s 3	11n42 0n45	14s11 1n50	20n31 13n35	21n45 21n32	8s20 1s18	5n 6			
S 2	22 4 0s 1	5 5 14 33	3 50 15 29	1 27 12 58	1 22 3 55	1 11 14 49	1 3 11 41	0 45 14 11	1 50 20 31	13 35 21 46	21 33 8 22	1 17 5 6				
M 3	22 12 4 26	5 9 14 33	3 53 15 51	1 26 12 47	1 21 3 59	1 11 14 49	1 4 11 41	0 45 14 10	1 49 20 31	13 35 21 46	21 33 8 24	1 17 5 6				
T 4	22 19 8 41	5 0 14 35	3 55 16 12	1 24 12 35	1 20 4 3	1 11 14 49	1 4 11 40	0 45 14 10	1 49 20 30	13 34 21 47	21 34 8 27	1 16 5 6				
W 5	22 26 12 37	4 37 14 39	3 57 16 33	1 22 12 23	1 18 4 7	1 12 14 49	1 4 11 40	0 45 14 9	1 49 20 30	13 34 21 49	21 34 8 29	1 15 5 7				
T 6	22 33 16 6	4 3 14 45	3 57 16 54	1 21 12 11	1 17 4 10	1 12 14 50	1 4 11 39	0 45 14 9	1 49 20 29	13 34 21 50	21 35 8 32	1 15 5 7				
F 7	22 40 18 56	3 17 14 52	3 56 17 14	1 19 11 59	1 16 4 14	1 12 14 50	1 4 11 39	0 45 14 9	1 49 20 29	13 33 21 50	21 35 8 34	1 14 5 7				
S 8	22 46 20 57	2 21 15 2	3 55 17 34	1 17 11 47	1 15 4 18	1 12 14 50	1 4 11 38	0 45 14 8	1 49 20 28	13 33 21 51	21 36 8 36	1 14 5 7				
S 9	22 51 22 0	1 18 15 14	3 52 17 53	1 16 11 35	1 14 4 22	1 12 14 51	1 5 11 37	0 45 14 8	1 49 20 28	13 33 21 51	21 36 8 39	1 14 5 8				
M10	22 56 21 58	0 11 15 27	3 49 18 12	1 14 11 23	1 13 4 25	1 13 14 51	1 5 11 37	0 45 14 8	1 49 20 27	13 32 21 52	21 37 8 41	1 13 5 8				
T 11	23 1 20 48	0s59 15 41	3 45 18 30	1 12 11 11	1 12 4 29	1 13 14 51	1 5 11 36	0 45 14 7	1 49 20 26	13 32 21 51	21 37 8 44	1 13 5 8				
W12	23 5 18 32	2 6 15 57	3 40 18 48	1 10 10 58	1 11 4 33	1 13 14 52	1 5 11 36	0 45 14 7	1 49 20 26	13 32 21 51	21 38 8 46	1 12 5 8				
T 13	23 9 15 16	3 9 16 15	3 34 19 5	1 8 10 46	1 9 4 36	1 13 14 52	1 5 11 35	0 45 14 7	1 49 20 25	13 31 21 51	21 38 8 48	1 12 5 9				
F 14	23 13 11 8	4 2 16 33	3 28 19 22	1 6 10 33	1 8 4 40	1 13 14 53	1 6 11 34	0 45 14 6	1 49 20 25	13 31 21 51	21 39 8 51	1 12 5 9				
S 15	23 16 6 21	4 43 16 53	3 21 19 39	1 4 10 21	1 7 4 43	1 14 14 53	1 6 11 34	0 45 14 6	1 49 20 24	13 31 21 51	21 39 8 53	1 11 5 9				
S 16	23 19 1 9	5 7 17 13	3 14 19 55	1 2 10 8	1 6 4 46	1 14 14 54	1 6 11 33	0 45 14 6	1 49 20 24	13 30 21 51	21 40 8 55	1 11 5 9				
M17	23 21 4n14	5 13 17 35	3 5 20 10	1 0 9 55	1 5 4 50	1 14 14 54	1 6 11 32	0 45 14 5	1 49 20 23	13 30 21 51	21 40 8 58	1 11 5 10				
T 18	23 23 9 27	4 59 17 57	2 57 20 25	0 58 9 42	1 4 4 53	1 14 14 55	1 6 11 31	0 45 14 5	1 49 20 22	13 30 21 52	21 41 9 0	1 11 5 10				
W19	23 25 14 11	4 26 18 20	2 48 20 39	0 55 9 29	1 3 4 56	1 15 14 56	1 6 11 31	0 45 14 5	1 49 20 22	13 29 21 52	21 41 9 3	1 10 5 10				
T 20	23 26 18 3	3 34 18 43	2 38 20 53	0 53 9 16	1 2 4 59	1 15 14 56	1 7 11 30	0 45 14 5	1 49 20 21	13 29 21 53	21 42 9 5	1 10 5 10				
F 21	23 26 20 44	2 29 19 7	2 28 21 6	0 51 9 3	1 1 5 2	1 15 14 57	1 7 11 29	0 45 14 4	1 49 20 20	13 29 21 53	21 42 9 7	1 10 5 11				
S 22	23 27 22 2	1 15 19 30	2 17 21 19	0 49 8 50	1 0 5 5	1 15 14 58	1 7 11 28	0 45 14 4	1 49 20 20	13 28 21 53	21 43 9 10	1 10 5 11				
S 23	23 26 21 51	0n 3 19 54	2 7 21 31	0 46 8 36	0 59 5 8	1 15 14 58	1 7 11 27	0 45 14 4	1 49 20 19	13 28 21 53	21 43 9 12	1 10 5 11				
M24	23 26 20 21	1 18 20 18	1 55 21 42	0 44 8 23	0 58 5 11	1 16 14 59	1 7 11 27	0 45 14 4	1 49 20 18	13 28 21 53	21 44 9 14	1 10 5 11				
T 25	23 25 17 44	2 27 20 41	1 44 21 53	0 42 8 10	0 57 5 14	1 16 15 0	1 7 11 26	0 45 14 3	1 49 20 18	13 27 21 53	21 44 9 17	1 10 5 11				
W26	23 23 14 17	3 26 21 4	1 32 22 3	0 39 7 56	0 56 5 17	1 16 15 1	1 8 11 25	0 45 14 3	1 49 20 17	13 27 21 53	21 45 9 19	1 10 5 12				
T 27	23 22 10 17	4 13 21 26	1 20 22 13	0 37 7 42	0 55 5 20	1 16 15 2	1 8 11 24	0 45 14 3	1 49 20 16	13 27 21 53	21 45 9 22	1 10 5 12				
F 28	23 19 5 57	4 48 21 48	1 9 22 22	0 34 7 29	0 54 5 22	1 17 15 3	1 8 11 23	0 44 14 3	1 48 20 16	13 26 21 52	21 46 9 24	1 9 5 12				
S 29	23 17 1 28	5 9 22 8	0 57 22 30	0 32 7 15	0 53 5 25	1 17 15 4	1 8 11 22	0 44 14 3	1 48 20 15	13 26 21 52	21 46 9 26	1 9 5 12				
S 30	23n14 3s 1	5n16 22n28	0s45 22n38	0s30 7n 1	0n52 5n28	1s17 15s 5	1s 8 11n21	0n44 14s 2	1n48 20n14	13n26 21n52	21n47 9s29	1s10 5n13				

Julian Day Number = 2438181.5, Delta T = 34.69 sec  
 Ecliptic obliquity = 23°26'35", Nutation = - 0°00'17", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°13'45", Lahiri = 23°20'46"

ASTRODIENST EPHEMERIS for the year 1963  
geocentric

JULY 1963

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 33 19	8♂27'45	2♂ 5	23♂52	22♂ 6	14♂45	17♂ 2	22°R31	2♂20	13°R 3	9♂57	20°R31	21♂ 6	8♂ 1	14°R50	M 1
T 2	18 37 15	9°24'57	13°58	25°47	23°19	15°19	17° 9	22°28	2°22	13♂ 2	9°58	20°29	21° 3	8° 7	14°50	T 2
W 3	18 41 12	10°22'08	25°54	27°45	24°33	15°52	17°16	22°25	2°25	13° 1	9°59	20°28	21° 0	8°14	14°49	W 3
T 4	18 45 8	11°19'19	7♂57	29°45	25°46	16°26	17°22	22°23	2°28	13° 1	10° 0	20°27	20°56	8°21	14°48	T 4
F 5	18 49 5	12°16'30	20°10	1♂47	26°59	17° 0	17°29	22°20	2°30	13° 0	10° 2	20°26	20°53	8°28	14°47	F 5
S 6	18 53 1	13°13'41	2♂35	3°51	28°12	17°34	17°35	22°17	2°33	12°59	10° 3	20°25	20°50	8°34	14°46	S 6
S 7	18 56 58	14°10'51	15°12	5°57	29°26	18° 9	17°42	22°14	2°36	12°59	10° 4	20°D25	20°47	8°41	14°45	S 7
M 8	19 0 55	15° 8'02	28° 3	8° 4	0♂39	18°43	17°48	22°11	2°39	12°58	10° 5	20°25	20°44	8°48	14°44	M 8
T 9	19 4 51	16° 5'13	11♂ 8	10°12	1°52	19°17	17°54	22° 8	2°41	12°58	10° 7	20°25	20°41	8°55	14°43	T 9
W10	19 8 48	17° 2'24	24°27	12°21	3° 5	19°52	17°59	22° 5	2°44	12°57	10° 8	20°25	20°37	9° 1	14°42	W10
T 11	19 12 44	17°59'36	7♂59	14°30	4°19	20°27	18° 5	22° 1	2°47	12°57	10°10	20°25	20°34	9° 8	14°41	T 11
F 12	19 16 41	18°56'47	21°44	16°40	5°32	21° 1	18°10	21°58	2°50	12°56	10°11	20°26	20°31	9°15	14°40	F 12
S 13	19 20 37	19°54'00	5♂40	18°50	6°45	21°36	18°16	21°55	2°53	12°56	10°13	20°26	20°28	9°21	14°38	S 13
S 14	19 24 34	20°51'13	19°47	20°59	7°59	22°11	18°21	21°51	2°56	12°56	10°14	20°26	20°25	9°28	14°37	S 14
M15	19 28 30	21°48'26	4♂ 1	23° 7	9°12	22°46	18°26	21°48	2°59	12°55	10°15	20°26	20°21	9°35	14°36	M15
T 16	19 32 27	22°45'40	18°21	25°15	10°26	23°21	18°30	21°44	3° 2	12°55	10°17	20°26	20°18	9°42	14°34	T 16
W17	19 36 24	23°42'55	2♂44	27°22	11°39	23°56	18°35	21°40	3° 5	12°55	10°19	20°26	20°15	9°48	14°33	W17
T 18	19 40 20	24°40'10	17° 5	29°27	12°53	24°32	18°39	21°37	3° 8	12°54	10°20	20°26	20°12	9°55	14°31	T 18
F 19	19 44 17	25°37'27	1♂20	1♂31	14° 6	25° 7	18°44	21°33	3°11	12°54	10°22	20°27	20° 9	10° 2	14°30	F 19
S 20	19 48 13	26°34'43	15°25	3°34	15°20	25°43	18°48	21°29	3°15	12°54	10°23	20°R27	20° 6	10° 8	14°28	S 20
S 21	19 52 10	27°32'00	29°17	5°36	16°33	26°18	18°51	21°25	3°18	12°54	10°25	20°27	20° 2	10°15	14°26	S 21
M22	19 56 6	28°29'18	12♂52	7°35	17°47	26°54	18°55	21°21	3°21	12°54	10°27	20°27	19°59	10°22	14°25	M22
T 23	20 0 3	29°26'36	26° 8	9°34	19° 1	27°30	18°59	21°17	3°24	12°53	10°28	20°26	19°56	10°29	14°23	T 23
W24	20 3 59	0♂23'55	9♂ 5	11°30	20°14	28° 5	19° 2	21°13	3°28	12°53	10°30	20°25	19°53	10°35	14°21	W24
T 25	20 7 56	1°21'14	21°43	13°25	21°28	28°41	19° 5	21° 9	3°31	12°53	10°32	20°23	19°50	10°42	14°19	T 25
F 26	20 11 53	2°18'33	4♂ 4	15°18	22°42	29°17	19° 8	21° 5	3°34	12°D53	10°33	20°22	19°47	10°49	14°17	F 26
S 27	20 15 49	3°15'53	16°13	17° 9	23°55	29°54	19°11	21° 1	3°38	12°53	10°35	20°21	19°43	10°55	14°15	S 27
S 28	20 19 46	4°13'13	28°12	18°59	25° 9	0♂30	19°13	20°57	3°41	12°53	10°37	20°20	19°40	11° 2	14°14	S 28
M29	20 23 42	5°10'33	10♂ 5	20°47	26°23	1° 6	19°16	20°53	3°44	12°54	10°39	20°D20	19°37	11° 9	14°12	M29
T 30	20 27 39	6° 7'55	21°59	22°33	27°37	1°43	19°18	20°48	3°48	12°54	10°40	20°21	19°34	11°16	14° 9	T 30
W31	20 31 35	7♂ 5'16	3♂56	24♂18	28♂50	2♂19	19°V20	20°44	3♂51	12♂54	10♂42	20°22	19°31	11♂22	14° 7	W31

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
M 1	23n10	7s21	5n10	22n46	0s33	22n45	0s27	6n47	0n51	5n30	1s17	1s 5	1s 8	11n20	0n44	14s 2
T 2	23 7	11 25	4 50	23 2	0 21	22 52	0 25	6 33	0 50	5 32	1 18	15 6	1 9	11 19	0 44	14 2
W 3	23 2	15 3	4 18	23 16	0 9	22 58	0 22	6 19	0 49	5 35	1 18	15 8	1 9	11 18	0 44	14 2
T 4	22 58	18 7	3 34	23 29	0n 2	23 3	0 20	6 5	0 48	5 37	1 18	15 9	1 9	11 17	0 44	14 2
F 5	22 53	20 25	2 40	23 39	0 14	23 7	0 17	5 51	0 47	5 39	1 18	15 10	1 9	11 16	0 44	14 2
S 6	22 47	21 48	1 37	23 47	0 24	23 11	0 15	5 37	0 46	5 42	1 19	15 11	1 9	11 15	0 44	14 1
S 7	22 41	22 6	0 29	23 53	0 35	23 14	0 12	5 23	0 45	5 44	1 19	15 12	1 9	11 14	0 44	14 1
M 8	22 35	21 15	0s42	23 56	0 44	23 17	0 10	5 9	0 44	5 46	1 19	15 13	1 10	11 13	0 44	14 1
T 9	22 28	19 14	1 52	23 56	0 54	23 18	0 7	4 54	0 43	5 48	1 19	15 14	1 10	11 12	0 44	14 1
W10	22 21	16 10	2 58	23 54	1 2	23 20	0 5	4 40	0 42	5 50	1 20	15 15	1 10	11 11	0 44	14 1
T 11	22 14	12 12	3 54	23 49	1 10	23 20	0 2	4 25	0 41	5 52	1 20	15 17	1 10	11 10	0 44	14 1
F 12	22 6	7 32	4 38	23 41	1 17	23 20	0n 0	4 11	0 41	5 54	1 20	15 18	1 10	11 9	0 44	14 1
S 13	21 58	2 26	5 7	23 30	1 24	23 19	0 3	3 56	0 40	5 55	1 20	15 19	1 10	11 8	0 44	14 1
S 14	21 50	2n51	5 17	23 17	1 29	23 17	0 5	3 42	0 39	5 57	1 21	15 20	1 10	11 7	0 44	14 1
M15	21 41	8 1	5 8	23 1	1 34	23 15	0 8	3 27	0 38	5 59	1 21	15 22	1 11	11 6	0 44	14 1
T 16	21 31	12 48	4 40	22 42	1 39	23 12	0 10	3 12	0 37	6 0	1 21	15 23	1 11	11 5	0 44	14 1
W17	21 22	16 52	3 55	22 22	1 42	23 8	0 12	2 58	0 36	6 2	1 21	15 24	1 11	11 3	0 44	14 0
T 18	21 12	19 55	2 55	21 59	1 45	23 4	0 15	2 43	0 35	6 3	1 22	15 25	1 11	11 2	0 44	14 0
F 19	21 1	21 42	1 44	21 33	1 47	22 59	0 17	2 28	0 34	6 4	1 22	15 27	1 11	11 1	0 44	14 0
S 20	20 51	22 5	0 28	21 6	1 48	22 53	0 20	2 13	0 33	6 6	1 22	15 28	1 11	11 0	0 44	14 0
S 21	20 39	21 6	0n49	20 38	1 48	22 47	0 22	1 58	0 33	6 7	1 23	15 30	1 11	10 59	0 44	14 0
M22	20 28	18 53	2 1	20 7	1 48	22 40	0 24	1 43	0 32	6 8	1 23	15 31	1 12	10 58	0 44	14 0
T 23	20 16	15 42	3 5	19 35	1 47	22 32	0 27	1 28	0 31	6 9	1 23	15 32	1 12	10 56	0 44	14 0
W24	20 4	11 50	3 58	19 2	1 46	22 24	0 29	1 13	0 30	6 10	1 23	15 34	1 12	10 55	0 44	14 1
T 25	19 52	7 32	4 38	18 27	1 44	22 15	0 31	0 58	0 29	6 11	1 24	15 35	1 12	10 54	0 44	14 1
F 26	19 39	3 1	5 3	17 52	1 41	22 5	0 33	0 43	0 28	6 12	1 24	15 37	1 12	10 53	0 44	14 1
S 27	19 26	1s31	5 15	17 15	1 38	21 54	0 35	0 28	0 27	6 13	1 24	15 38	1 12	10 52	0 44	14 1
S 28	19 12	5 57	5 13	16 38	1 34	21 43	0 38	0 12	0 27	6 13	1 24	15 40	1 12	10 50	0 44	14 1
M29	18 59	10 8	4 58	16 0	1 30	21 32	0 40	0s 3	0 26	6 14	1 25	15 41	1 12	10 49	0 44	14 1
T 30	18 45	13 55	4 29	15 21	1 26	21 20	0 42	0 18	0 25	6 15	1 25	15 42	1 13	10 48	0 44	14 1
W31	18n30	17s11	3n49	14n41	1n20	21n 7	0n44	0s33	0n24	6n15	1s25	15s44	1s13	10n47	0n44	14s 1

Julian Day Number = 2438211.5, Delta T = 34.73 sec  
Ecliptic obliquity = 23°26'35", Nutation = - 0°00'16", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 24°13'49", Lahiri = 23°20'50"



ASTRODIENST EPHEMERIS for the year 1963  
geocentric

AUGUST 1963

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 35 32	8♌ 2'39	16♊ 2	26♌ 1	0♌ 4	2♊56	19♑22	20°R40	3♐55	12♌54	10♐44	20♊23	19♊27	11♌29	14°R 5	T 1
F 2	20 39 28	9° 0'02	28°20	27°42	1°18	3°32	19°23	20♊35	3°58	12°54	10°46	20°24	19°24	11°36	14°R 3	F 2
S 3	20 43 25	9°57'25	10♊54	29°22	2°32	4° 9	19°25	20°31	4° 2	12°54	10°48	20°25	19°21	11°42	14° 1	S 3
S 4	20 47 22	10°54'50	23°46	1♐ 0	3°46	4°46	19°26	20°27	4° 5	12°55	10°49	20°R26	19°18	11°49	13°59	S 4
M 5	20 51 18	11°52'15	6♊57	2°36	5° 0	5°23	19°27	20°22	4° 9	12°55	10°51	20°25	19°15	11°56	13°56	M 5
T 6	20 55 15	12°49'41	20°25	4°10	6°14	6° 0	19°28	20°18	4°12	12°55	10°53	20°23	19°12	12° 3	13°54	T 6
W 7	20 59 11	13°47'09	4♊11	5°43	7°27	6°37	19°28	20°13	4°16	12°56	10°55	20°20	19° 8	12° 9	13°52	W 7
T 8	21 3 8	14°44'37	18° 9	7°14	8°41	7°14	19°29	20° 9	4°19	12°56	10°57	20°17	19° 5	12°16	13°49	T 8
F 9	21 7 4	15°42'06	2♑18	8°44	9°55	7°51	19°29	20° 5	4°23	12°57	10°59	20°14	19° 2	12°23	13°47	F 9
S 10	21 11 1	16°39'37	16°33	10°12	11° 9	8°28	19°R29	20° 0	4°27	12°57	11° 1	20°11	18°59	12°29	13°45	S 10
S 11	21 14 57	17°37'09	0♊49	11°38	12°23	9° 6	19°29	19°56	4°30	12°58	11° 3	20° 8	18°56	12°36	13°42	S 11
M12	21 18 54	18°34'43	15° 4	13° 3	13°37	9°43	19°28	19°51	4°34	12°58	11° 5	20°D 8	18°53	12°43	13°40	M12
T 13	21 22 51	19°32'18	29°15	14°25	14°52	10°21	19°28	19°47	4°38	12°59	11° 7	20° 8	18°49	12°50	13°37	T 13
W14	21 26 47	20°29'55	13♐12	15°46	16° 6	10°59	19°27	19°42	4°41	12°59	11° 9	20° 9	18°46	12°56	13°35	W14
T 15	21 30 44	21°27'33	27°18	17° 5	17°20	11°36	19°26	19°38	4°45	13° 0	11°11	20°10	18°43	13° 3	13°32	T 15
F 16	21 34 40	22°25'13	11♊ 7	18°22	18°34	12°14	19°25	19°33	4°49	13° 1	11°13	20°12	18°40	13°10	13°30	F 16
S 17	21 38 37	23°22'54	24°46	19°38	19°48	12°52	19°24	19°29	4°52	13° 1	11°15	20°R12	18°37	13°16	13°27	S 17
S 18	21 42 33	24°20'37	8♌14	20°51	21° 2	13°30	19°22	19°24	4°56	13° 2	11°17	20°10	18°33	13°23	13°24	S 18
M19	21 46 30	25°18'21	21°29	22° 2	22°16	14° 8	19°20	19°20	5° 0	13° 3	11°19	20° 7	18°30	13°30	13°22	M19
T 20	21 50 26	26°16'06	4♐29	23°12	23°31	14°46	19°18	19°15	5° 3	13° 4	11°21	20° 3	18°27	13°36	13°19	T 20
W21	21 54 23	27°13'53	17°15	24°18	24°45	15°24	19°16	19°11	5° 7	13° 4	11°23	19°57	18°24	13°43	13°16	W21
T 22	21 58 20	28°11'40	29°47	25°23	25°59	16° 3	19°14	19° 6	5°11	13° 5	11°25	19°50	18°21	13°50	13°14	T 22
F 23	22 2 16	29° 9'29	12♊ 5	26°25	27°13	16°41	19°11	19° 2	5°15	13° 6	11°27	19°44	18°18	13°57	13°11	F 23
S 24	22 6 13	0♐ 7'20	24°11	27°25	28°28	17°20	19° 8	18°58	5°18	13° 7	11°29	19°38	18°14	14° 3	13° 8	S 24
S 25	22 10 9	1° 5'11	6♌ 8	28°22	29°42	17°58	19° 6	18°53	5°22	13° 8	11°31	19°33	18°11	14°10	13° 5	S 25
M26	22 14 6	2° 3'04	18° 1	29°16	0♐56	18°37	19° 2	18°49	5°26	13° 9	11°33	19°30	18° 8	14°17	13° 3	M26
T 27	22 18 2	3° 0'59	29°53	0♊ 7	2°11	19°15	18°59	18°45	5°30	13°10	11°35	19°D29	18° 5	14°23	13° 0	T 27
W28	22 21 59	3°58'54	11♊49	0°55	3°25	19°54	18°56	18°40	5°33	13°11	11°37	19°29	18° 2	14°30	12°57	W28
T 29	22 25 55	4°56'51	23°54	1°40	4°39	20°33	18°52	18°36	5°37	13°12	11°39	19°30	17°59	14°37	12°54	T 29
F 30	22 29 52	5°54'49	6♊13	2°21	5°54	21°12	18°48	18°32	5°41	13°13	11°41	19°32	17°55	14°44	12°51	F 30
S 31	22 33 48	6♐52'49	18♊51	2♊58	7♐ 8	21♊51	18°Y44	18♊28	5♐45	13♌14	11♐44	19°R32	17♊52	14♌50	12♊49	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	18n16	19s45	2n59	14n 1	1n15	20n53	0n46	0s49	0n23	6n16	1s26	15s45	1s13	10n45
F 2	18 1	21 27	1 59	13 21	1 9	20 39	0 48	1 4	0 22	6 16	1 26	15 47	1 13	10 44
S 3	17 45	22 8	0 52	12 41	1 3	20 24	0 50	1 19	0 22	6 16	1 26	15 48	1 13	10 43
S 4	17 30	21 39	0s18	12 0	0 56	20 9	0 52	1 35	0 21	6 16	1 26	15 50	1 13	10 41
M 5	17 14	19 59	1 30	11 19	0 49	19 53	0 54	1 50	0 20	6 16	1 27	15 51	1 13	10 40
T 6	16 58	17 10	2 38	10 38	0 42	19 37	0 55	2 5	0 19	6 16	1 27	15 53	1 13	10 39
W 7	16 41	13 21	3 38	9 57	0 34	19 20	0 57	2 21	0 18	6 16	1 27	15 54	1 13	10 37
T 8	16 25	8 45	4 26	9 15	0 26	19 2	0 59	2 36	0 18	6 16	1 28	15 56	1 14	10 36
F 9	16 8	3 39	4 58	8 34	0 18	18 44	1 1	2 52	0 17	6 16	1 28	15 57	1 14	10 35
S 10	15 51	1n41	5 13	7 54	0 10	18 26	1 2	3 7	0 16	6 16	1 28	15 59	1 14	10 34
S 11	15 33	6 57	5 8	7 13	0 1	18 7	1 4	3 22	0 15	6 16	1 28	16 0	1 14	10 32
M12	15 16	11 50	4 44	6 33	0s 8	17 47	1 5	3 38	0 14	6 15	1 29	16 2	1 14	10 31
T 13	14 58	16 2	4 3	5 52	0 17	17 27	1 7	3 53	0 14	6 15	1 29	16 3	1 14	10 29
W14	14 40	19 18	3 8	5 13	0 26	17 6	1 8	4 9	0 13	6 14	1 29	16 5	1 14	10 28
T 15	14 21	21 23	2 2	4 33	0 36	16 45	1 10	4 24	0 12	6 14	1 29	16 6	1 14	10 27
F 16	14 3	22 9	0 49	3 54	0 45	16 23	1 11	4 40	0 11	6 13	1 30	16 8	1 14	10 25
S 17	13 44	21 35	0n25	3 16	0 55	16 1	1 12	4 55	0 10	6 12	1 30	16 9	1 14	10 24
S 18	13 25	19 46	1 37	2 38	1 4	15 39	1 13	5 11	0 10	6 11	1 30	16 11	1 14	10 23
M19	13 5	16 54	2 42	2 1	1 14	15 16	1 15	5 26	0 9	6 10	1 30	16 12	1 14	10 21
T 20	12 46	13 14	3 38	1 25	1 24	14 53	1 16	5 42	0 8	6 9	1 31	16 14	1 14	10 20
W21	12 26	9 2	4 21	0 49	1 34	14 29	1 17	5 57	0 7	6 8	1 31	16 15	1 15	10 19
T 22	12 6	4 32	4 51	0 14	1 44	14 5	1 18	6 13	0 7	6 7	1 31	16 17	1 15	10 17
F 23	11 46	0s 4	5 7	0s19	1 54	13 40	1 19	6 28	0 6	6 6	1 31	16 18	1 15	10 16
S 24	11 26	4 36	5 9	0 52	2 4	13 15	1 19	6 43	0 5	6 5	1 32	16 20	1 15	10 14
S 25	11 5	8 54	4 57	1 24	2 14	12 50	1 20	6 59	0 4	6 3	1 32	16 21	1 15	10 13
M26	10 45	12 50	4 32	1 55	2 24	12 24	1 21	7 14	0 4	6 2	1 32	16 22	1 15	10 12
T 27	10 24	16 17	3 56	2 24	2 34	11 58	1 22	7 30	0 3	6 1	1 32	16 24	1 15	10 10
W28	10 3	19 4	3 10	2 52	2 43	11 32	1 22	7 45	0 2	5 59	1 33	16 25	1 15	10 9
T 29	9 42	21 4	2 14	3 18	2 53	11 5	1 23	8 0	0 1	5 57	1 33	16 26	1 15	10 8
F 30	9 21	22 7	1 11	3 43	3 2	10 38	1 23	8 16	0 1	5 56	1 33	16 28	1 15	10 6
S 31	8n59	22s 3	0n 4	4s 6	3s11	10n11	1n24	8s31	0n 0	5n54	1s33	16s29	1s15	10n 5

Julian Day Number = 2438242.5, Delta T = 34.78 sec  
Ecliptic obliquity = 23°26'35", Nutation = - 0°00'15", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 24°13'54", Lahiri = 23°20'54"



# ASTRODIENST EPHEMERIS for the year 1963

## geocentric

OCTOBER 1963

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 36 2	7♌ 5'44	7♌ 10	20♏ 47	15♏ 41	12♏ 37	15°R26	16°R48	7♏ 38	14♏ 2	12♏ 47	16°R59	16♏ 14	18♏ 18	11°R24	T 1
W 2	0 39 58	8° 4'42	21°33	21° 9	16°56	13°18	15°Y18	16°R46	7°41	14° 4	12°49	16♏ 50	16°10	18°25	11°R22	W 2
T 3	0 43 55	9° 3'43	6°Y19	21°40	18°10	14° 0	15°10	16°44	7°44	14° 6	12°51	16°39	16° 7	18°31	11°19	T 3
F 4	0 47 51	10° 2'45	21°19	22°21	19°25	14°41	15° 2	16°43	7°48	14° 7	12°53	16°28	16° 4	18°38	11°17	F 4
S 5	0 51 48	11° 1'50	6♌ 23	23°11	20°40	15°23	14°54	16°41	7°51	14° 9	12°55	16°17	16° 1	18°45	11°14	S 5
S 6	0 55 44	12° 0'56	21°23	24° 8	21°55	16° 4	14°46	16°39	7°54	14°11	12°57	16° 9	15°58	18°52	11°12	S 6
M 7	0 59 41	13° 0'05	6♏ 8	25°12	23° 9	16°46	14°38	16°38	7°57	14°13	12°59	16° 3	15°55	18°58	11°10	M 7
T 8	1 3 37	13°59'17	20°34	26°23	24°24	17°28	14°30	16°36	8° 1	14°15	13° 1	15°59	15°51	19° 5	11° 8	T 8
W 9	1 7 34	14°58'31	4♏ 39	27°39	25°39	18°10	14°22	16°35	8° 4	14°17	13° 3	15°58	15°48	19°12	11° 5	W 9
T 10	1 11 31	15°57'47	18°21	29° 1	26°54	18°51	14°14	16°34	8° 7	14°19	13° 4	15°58	15°45	19°18	11° 3	T 10
F 11	1 15 27	16°57'05	1♏ 43	0♏ 26	28° 8	19°33	14° 6	16°33	8°10	14°21	13° 6	15°58	15°42	19°25	11° 1	F 11
S 12	1 19 24	17°56'26	14°46	1°56	29°23	20°16	13°58	16°32	8°13	14°23	13° 8	15°56	15°39	19°32	10°59	S 12
S 13	1 23 20	18°55'49	27°35	3°28	0♏ 38	20°58	13°50	16°31	8°16	14°25	13°10	15°52	15°36	19°38	10°57	S 13
M14	1 27 17	19°55'14	10♏ 11	5° 3	1°53	21°40	13°42	16°30	8°20	14°28	13°12	15°44	15°32	19°45	10°55	M14
T 15	1 31 13	20°54'42	22°37	6°40	3° 8	22°22	13°34	16°29	8°23	14°30	13°13	15°34	15°29	19°52	10°53	T 15
W16	1 35 10	21°54'11	4♏ 54	8°18	4°22	23° 4	13°26	16°29	8°26	14°32	13°15	15°21	15°26	19°59	10°51	W16
T 17	1 39 6	22°53'43	17° 2	9°58	5°37	23°47	13°18	16°28	8°28	14°34	13°17	15° 7	15°23	20° 5	10°49	T 17
F 18	1 43 3	23°53'17	29° 4	11°39	6°52	24°29	13°10	16°28	8°31	14°36	13°19	14°53	15°20	20°12	10°47	F 18
S 19	1 47 0	24°52'52	11♏ 0	13°20	8° 7	25°12	13° 2	16°27	8°34	14°38	13°20	14°39	15°16	20°19	10°45	S 19
S 20	1 50 56	25°52'30	22°51	15° 2	9°22	25°55	12°55	16°27	8°37	14°40	13°22	14°28	15°13	20°25	10°44	S 20
M21	1 54 53	26°52'10	4♏ 39	16°44	10°36	26°37	12°47	16°27	8°40	14°42	13°23	14°19	15°10	20°32	10°42	M21
T 22	1 58 49	27°51'51	16°28	18°26	11°51	27°20	12°40	16°D27	8°43	14°45	13°25	14°13	15° 7	20°39	10°40	T 22
W23	2 2 46	28°51'35	28°20	20° 9	13° 6	28° 3	12°32	16°27	8°46	14°47	13°27	14°10	15° 4	20°45	10°38	W23
T 24	2 6 42	29°51'20	10♏ 21	21°51	14°21	28°46	12°25	16°27	8°48	14°49	13°28	14°D 9	15° 1	20°52	10°37	T 24
F 25	2 10 39	0♏ 51'07	22°34	23°33	15°36	29°29	12°17	16°27	8°51	14°51	13°30	14° 9	14°57	20°59	10°35	F 25
S 26	2 14 35	1°50'55	5♏ 5	25°14	16°50	0♏ 12	12°10	16°28	8°54	14°53	13°31	14°R 9	14°54	21° 6	10°34	S 26
S 27	2 18 32	2°50'46	18° 0	26°56	18° 5	0°55	12° 3	16°28	8°56	14°56	13°33	14° 8	14°51	21°12	10°32	S 27
M28	2 22 29	3°50'37	1♏ 21	28°37	19°20	1°38	11°56	16°29	8°59	14°58	13°34	14° 5	14°48	21°19	10°31	M28
T 29	2 26 25	4°50'31	15°14	0♏ 17	20°35	2°21	11°49	16°30	9° 1	15° 0	13°36	13°59	14°45	21°26	10°30	T 29
W30	2 30 22	5°50'26	29°36	1°57	21°50	3° 4	11°43	16°30	9° 4	15° 2	13°37	13°52	14°41	21°32	10°28	W30
T 31	2 34 18	6♏ 50'23	14°Y25	3♏ 37	23♏ 4	3♏ 48	11°Y36	16°R31	9♏ 6	15♏ 4	13♏ 39	13°R42	14°R38	21♏ 39	10°R27	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	2s49	12s28	3s52	3n59	0n21	5s10	1n 5	15s58	0s21	4n34	1s38	17s 0	1s15	9n23	0n44	14s24
W 2	3 12	7 31	4 32	4 4	0 36	5 40	1 4	16 11	0 22	4 31	1 38	17 0	1 15	9 22	0 44	14 25
T 3	3 36	2 1	4 56	4 5	0 51	6 10	1 2	16 24	0 22	4 28	1 38	17 1	1 15	9 21	0 44	14 26
F 4	3 59	3n41	4 59	4 0	1 3	6 40	1 0	16 37	0 23	4 25	1 38	17 1	1 15	9 20	0 44	14 26
S 5	4 22	9 12	4 42	3 51	1 15	7 10	0 59	16 49	0 23	4 22	1 38	17 2	1 15	9 18	0 44	14 27
S 6	4 45	14 9	4 6	3 38	1 25	7 39	0 57	17 2	0 24	4 19	1 38	17 2	1 15	9 17	0 44	14 27
M 7	5 8	18 9	3 14	3 20	1 33	8 9	0 55	17 15	0 25	4 16	1 38	17 3	1 15	9 16	0 44	14 28
T 8	5 31	20 57	2 10	2 58	1 40	8 38	0 53	17 27	0 25	4 13	1 38	17 3	1 15	9 15	0 44	14 29
W 9	5 54	22 22	0 59	2 33	1 46	9 7	0 51	17 39	0 26	4 10	1 38	17 3	1 15	9 14	0 44	14 29
T 10	6 17	22 24	0n13	2 5	1 51	9 36	0 49	17 51	0 26	4 7	1 38	17 4	1 15	9 12	0 44	14 30
F 11	6 40	21 7	1 22	1 34	1 54	10 5	0 47	18 4	0 27	4 3	1 38	17 4	1 15	9 11	0 44	14 30
S 12	7 2	18 44	2 26	1 1	1 57	10 33	0 45	18 15	0 28	4 0	1 38	17 4	1 15	9 10	0 44	14 31
S 13	7 25	15 27	3 21	0 26	1 58	11 1	0 43	18 27	0 28	3 57	1 38	17 5	1 15	9 9	0 44	14 32
M14	7 47	11 31	4 5	0s11	1 59	11 29	0 41	18 39	0 29	3 54	1 38	17 5	1 15	9 8	0 44	14 32
T 15	8 10	7 10	4 36	0 50	1 59	11 57	0 39	18 50	0 29	3 51	1 38	17 5	1 14	9 7	0 44	14 33
W16	8 32	2 34	4 55	1 29	1 58	12 24	0 37	19 2	0 30	3 48	1 38	17 5	1 14	9 6	0 44	14 34
T 17	8 54	2s 5	5 0	2 10	1 56	12 51	0 35	19 13	0 31	3 45	1 37	17 5	1 14	9 5	0 44	14 34
F 18	9 16	6 36	4 51	2 52	1 53	13 18	0 33	19 24	0 31	3 42	1 37	17 5	1 14	9 4	0 44	14 35
S 19	9 38	10 52	4 29	3 34	1 50	13 44	0 30	19 35	0 32	3 39	1 37	17 5	1 14	9 3	0 44	14 35
S 20	10 0	14 41	3 56	4 17	1 47	14 10	0 28	19 46	0 32	3 36	1 37	17 5	1 14	9 1	0 44	14 36
M21	10 22	17 55	3 13	4 59	1 43	14 36	0 26	19 56	0 33	3 34	1 37	17 5	1 14	9 0	0 44	14 37
T 22	10 43	20 25	2 21	5 42	1 39	15 1	0 23	20 7	0 33	3 31	1 37	17 5	1 14	8 59	0 44	14 37
W23	11 4	22 3	1 23	6 25	1 34	15 26	0 21	20 17	0 34	3 28	1 37	17 5	1 14	8 58	0 44	14 38
T 24	11 25	22 42	0 20	7 8	1 29	15 51	0 19	20 27	0 34	3 25	1 37	17 5	1 14	8 57	0 44	14 39
F 25	11 46	22 17	0s45	7 51	1 24	16 15	0 16	20 37	0 35	3 23	1 37	17 5	1 14	8 56	0 45	14 39
S 26	12 7	20 46	1 49	8 33	1 18	16 39	0 14	20 46	0 36	3 20	1 36	17 5	1 14	8 56	0 45	14 40
S 27	12 28	18 8	2 50	9 15	1 12	17 2	0 11	20 56	0 36	3 17	1 36	17 5	1 14	8 55	0 45	14 41
M28	12 48	14 28	3 43	9 57	1 6	17 25	0 9	21 5	0 37	3 15	1 36	17 4	1 14	8 54	0 45	14 41
T 29	13 8	9 54	4 26	10 38	1 0	17 48	0 6	21 15	0 37	3 12	1 36	17 4	1 14	8 53	0 45	14 42
W30	13 28	4 39	4 54	11 19	0 54	18 10	0 4	21 24	0 38	3 10	1 36	17 4	1 14	8 52	0 45	14 43
T 31	13s48	1n 2	5s 3	11s59	0n47	18s31	0n 1	21s32	0s38	3n 7	1s36	17s 4	1s14	8n51	0n45	14s43

Julian Day Number = 2438303.5, Delta T = 34.88 sec  
 Ecliptic obliquity = 23°26'36", Nutation = - 0°00'17", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°14'02", Lahiri = 23°21'03"



ASTRODIENST EPHEMERIS for the year 1963  
geocentric

DECEMBER 1963

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 36 31	8♂ 3'36	8♂ 7	22♂15	1♂42	26♂42	9°R34	17♂48	9♂58	16♂13	14♂ 9	11°R31	13♂ 0	25♂ 6	10♂16	S 1
M 2	4 40 28	9° 4'24	23°17	23°45	2°56	27°27	9°Y33	17°52	9°59	16°15	14°10	11♂28	12°57	25°13	10°17	M 2
T 3	4 44 25	10° 5'13	8♂12	25°15	4°11	28°12	9°33	17°56	9°59	16°17	14°10	11°D27	12°53	25°20	10°18	T 3
W 4	4 48 21	11° 6'03	22°43	26°44	5°26	28°57	9°32	18° 0	10° 0	16°19	14°11	11°28	12°50	25°27	10°18	W 4
T 5	4 52 18	12° 6'55	6♂47	28°13	6°40	29°43	9°D32	18° 4	10° 1	16°22	14°11	11°29	12°47	25°33	10°19	T 5
F 6	4 56 14	13° 7'48	20°24	29°41	7°55	0♂28	9°32	18° 9	10° 1	16°24	14°12	11°31	12°44	25°40	10°20	F 6
S 7	5 0 11	14° 8'42	3♂34	1♂ 8	9° 9	1°14	9°33	18°13	10° 2	16°26	14°12	11°32	12°41	25°47	10°21	S 7
S 8	5 4 7	15° 9'37	16°20	2°35	10°24	1°59	9°33	18°17	10° 2	16°28	14°12	11°R32	12°38	25°53	10°22	S 8
M 9	5 8 4	16°10'34	28°48	4° 1	11°39	2°45	9°34	18°22	10° 3	16°30	14°13	11°32	12°34	26° 0	10°23	M 9
T 10	5 12 0	17°11'32	11♂ 0	5°25	12°53	3°31	9°34	18°27	10° 3	16°32	14°13	11°30	12°31	26° 7	10°24	T 10
W11	5 15 57	18°12'31	23° 1	6°49	14° 8	4°16	9°35	18°31	10° 3	16°34	14°13	11°27	12°28	26°13	10°25	W11
T 12	5 19 54	19°13'31	4♂55	8°11	15°22	5° 2	9°37	18°36	10° 4	16°36	14°13	11°23	12°25	26°20	10°26	T 12
F 13	5 23 50	20°14'32	16°45	9°31	16°37	5°48	9°38	18°41	10° 4	16°38	14°13	11°19	12°22	26°27	10°27	F 13
S 14	5 27 47	21°15'34	28°35	10°49	17°51	6°34	9°40	18°46	10° 4	16°40	14°14	11°16	12°19	26°33	10°28	S 14
S 15	5 31 43	22°16'37	10♂26	12° 5	19° 6	7°20	9°42	18°51	10° 4	16°42	14°14	11°13	12°15	26°40	10°30	S 15
M16	5 35 40	23°17'41	22°20	13°18	20°20	8° 6	9°44	18°56	10°R 4	16°43	14°14	11°11	12°12	26°47	10°31	M16
T 17	5 39 36	24°18'46	4♂20	14°28	21°35	8°52	9°46	19° 1	10° 4	16°45	14°R14	11°10	12° 9	26°53	10°32	T 17
W18	5 43 33	25°19'51	16°27	15°34	22°49	9°38	9°49	19° 6	10° 4	16°47	14°14	11°D10	12° 6	27° 0	10°34	W18
T 19	5 47 29	26°20'57	28°43	16°36	24° 4	10°24	9°51	19°11	10° 4	16°49	14°14	11°10	12° 3	27° 7	10°35	T 19
F 20	5 51 26	27°22'03	11♂11	17°32	25°18	11°10	9°54	19°16	10° 4	16°51	14°14	11°11	11°59	27°14	10°37	F 20
S 21	5 55 23	28°23'10	23°51	18°23	26°33	11°56	9°57	19°22	10° 4	16°53	14°13	11°13	11°56	27°20	10°39	S 21
S 22	5 59 19	29°24'16	6♂47	19° 8	27°47	12°42	10° 1	19°27	10° 3	16°54	14°13	11°14	11°53	27°27	10°40	S 22
M23	6 3 16	0♂25'23	20° 2	19°45	29° 1	13°28	10° 4	19°33	10° 3	16°56	14°13	11°14	11°50	27°34	10°42	M23
T 24	6 7 12	1°26'30	3°Y37	20°14	0♂16	14°15	10° 8	19°38	10° 3	16°58	14°13	11°R15	11°47	27°40	10°44	T 24
W25	6 11 9	2°27'37	17°33	20°34	1°30	15° 1	10°12	19°44	10° 2	17° 0	14°13	11°14	11°44	27°47	10°46	W25
T 26	6 15 5	3°28'45	1♂50	20°R44	2°44	15°47	10°16	19°50	10° 2	17° 1	14°12	11°14	11°40	27°54	10°48	T 26
F 27	6 19 2	4°29'52	16°26	20°42	3°59	16°34	10°20	19°55	10° 1	17° 3	14°12	11°13	11°37	28° 0	10°50	F 27
S 28	6 22 59	5°30'59	1♂16	20°30	5°13	17°20	10°25	20° 1	10° 0	17° 5	14°12	11°12	11°34	28° 7	10°52	S 28
S 29	6 26 55	6°32'07	16°13	20° 6	6°27	18° 7	10°29	20° 7	10° 0	17° 6	14°11	11°12	11°31	28°14	10°54	S 29
M30	6 30 52	7°33'14	1♂10	19°29	7°41	18°53	10°34	20°13	9°59	17° 8	14°11	11°11	11°28	28°20	10°56	M30
T 31	6 34 48	8♂34'22	15♂59	18♂42	8♂56	19♂40	10°Y39	20♂19	9♂58	17♂10	14♂11	11°D11	11♂25	28♂27	10♂58	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
S 1	21s39	18n50	2s52	25s22	2s10	24s39	1s13	24s16	0s52	2n27	1s28	16s39	1s12	8n33	0n46	15s 3	1n43	18n52	13n44	22n57	22n48	15s20	3s 7	4n58			
M 2	21 49	21 39	1 38	25 30	2 12	24 40	1 15	24 18	0 53	2 27	1 27	16 37	1 12	8 32	0 46	15 3	1 43	18 52	13 44	22 57	22 49	15 22	3 7	4 58			
T 3	21 58	22 54	0 18	25 36	2 15	24 40	1 17	24 19	0 53	2 27	1 27	16 36	1 12	8 32	0 46	15 4	1 43	18 52	13 45	22 57	22 49	15 24	3 7	4 57			
W 4	22 7	22 32	1n 1	25 41	2 17	24 39	1 19	24 20	0 53	2 27	1 27	16 35	1 12	8 32	0 46	15 5	1 43	18 52	13 45	22 57	22 49	15 26	3 7	4 57			
T 5	22 15	20 45	2 14	25 44	2 19	24 37	1 21	24 20	0 54	2 27	1 27	16 33	1 12	8 32	0 46	15 5	1 43	18 53	13 46	22 57	22 50	15 29	3 7	4 57			
F 6	22 23	17 49	3 18	25 46	2 20	24 35	1 22	24 21	0 54	2 27	1 26	16 32	1 12	8 32	0 46	15 6	1 43	18 53	13 46	22 57	22 50	15 31	3 7	4 56			
S 7	22 30	14 3	4 8	25 47	2 21	24 32	1 24	24 21	0 55	2 28	1 26	16 31	1 12	8 31	0 46	15 6	1 43	18 53	13 47	22 57	22 50	15 33	3 7	4 56			
S 8	22 37	9 46	4 45	25 46	2 21	24 28	1 26	24 21	0 55	2 28	1 26	16 29	1 12	8 31	0 46	15 7	1 43	18 54	13 47	22 57	22 51	15 35	3 7	4 56			
M 9	22 44	5 10	5 7	25 43	2 21	24 23	1 28	24 20	0 55	2 29	1 25	16 28	1 12	8 31	0 46	15 7	1 43	18 54	13 48	22 57	22 51	15 37	3 7	4 55			
T 10	22 50	0 28	5 14	25 40	2 20	24 18	1 29	24 19	0 56	2 29	1 25	16 26	1 12	8 31	0 46	15 8	1 43	18 54	13 48	22 57	22 51	15 39	3 7	4 55			
W11	22 55	4s11	5 8	25 34	2 18	24 12	1 31	24 18	0 56	2 30	1 25	16 25	1 12	8 31	0 46	15 8	1 43	18 55	13 49	22 57	22 52	15 41	3 7	4 55			
T 12	23 0	8 38	4 48	25 27	2 16	24 5	1 32	24 17	0 56	2 31	1 24	16 23	1 12	8 31	0 46	15 9	1 43	18 55	13 49	22 57	22 52	15 44	3 7	4 54			
F 13	23 5	12 45	4 17	25 19	2 14	23 57	1 33	24 16	0 57	2 32	1 24	16 22	1 12	8 31	0 47	15 10	1 43	18 55	13 50	22 58	22 52	15 46	3 7	4 54			
S 14	23 9	16 22	3 34	25 10	2 10	23 49	1 35	24 14	0 57	2 33	1 24	16 20	1 12	8 31	0 47	15 10	1 43	18 56	13 50	22 58	22 52	15 48	3 6	4 54			
S 15	23 13	19 21	2 42	24 59	2 6	23 40	1 36	24 12	0 57	2 34	1 24	16 19	1 12	8 31	0 47	15 11	1 43	18 56	13 51	22 58	22 53	15 50	3 6	4 53			
M16	23 16	21 31	1 42	24 47	2 1	23 30	1 37	24 9	0 58	2 35	1 23	16 17	1 12	8 31	0 47	15 11	1 43	18 57	13 51	22 58	22 53	15 52	3 6	4 53			
T 17	23 19	22 45	0 38	24 34	1 55	23 20	1 38	24 7	0 58	2 36	1 23	16 16	1 12	8 31	0 47	15 12	1 43	18 57	13 52	22 58	22 53	15 54	3 6	4 53			
W18	23 22	22 55	0s29	24 19	1 48	23 9	1 39	24 4	0 58	2 37	1 23	16 14	1 11	8 31	0 47	15 12	1 43	18 58	13 52	22 58	22 54	15 56	3 6	4 52			
T 19	23 24	21 59	1 36	24 4	1 40	22 57	1 40	24 0	0 58	2 39	1 22	16 12	1 11	8 31	0 47	15 13	1 44	18 58	13 53	22 58	22 54	15 58	3 5	4 52			
F 20	23 25	19 58	2 39	23 48	1 31	22 44	1 41	23 57	0 59	2 40	1 22	16 11	1 11	8 31	0 47	15 13	1 44	18 58	13 53	22 58	22 54	16 0	3 5	4 52			
S 21	23 26	16 57	3 35	23 31	1 21	22 31	1 42	23 53	0 59	2 41	1 22	16 9	1 11	8 31	0 47	15 13	1 44	18 59	13 54	22 58	22 54	16 3	3 5	4 52			
S 22	23 27	13 4	4 22	23 14	1 10	22 17	1 43	23 49	0 59	2 43	1 21	16 7	1 11	8 31	0 47	15 14	1 44	18 59	13 54	22 58	22 55	16 5	3 4	4 51			
M23	23 27	8 29	4 56	22 56	0 57	22 3	1 44	23 45	1 0	2 45	1 21	16 5	1 11	8 32	0 47	15 14	1 44	19 0	13 55	22 58	22 55	16 7	3 4	4 51			
T 24	23 26	3 23	5 15	22 38	0 43	21 48	1 44	23 40	1 0	2 46	1 21	16 4	1 11	8 32	0 47	15 15	1 44	19 0	13 55	22 58	22 55	16 9	3 4	4 51			
W25	23 25	2n 2	5 15	22 20	0 29	21 32	1 45	23 36	1 0	2 48	1 21	16 2	1 11	8 32	0 47	15 15	1 44	19 1	13 56	22 58	22 56	16 11	3 3	4 50			
T 26	23 24	7 28	4 57	22 3	0 12	21 16	1 45	23 30	1 0	2 50	1 20	16 0	1 11	8 32	0 47	15 16	1 44	19 2	13 56	22 58	22 56	16 13	3 3	4 50			
F 27	23 22	12 36	4 20	21 46	0n 5	20 59	1 46	23 25	1 1	2 52	1 20	15 58	1 11	8 33	0 47	15 16	1 44	19 2	13 56	22 58	22 56	16 15	3 2	4 50			
S 28	23 20	17 5	3 24	21 30	0 23	20 41	1 46	23 19	1 1	2 54	1 20	15 56	1 11	8 33	0 47	15 17	1 44	19 3	13 57	22 58	22 56	16 17	3 2	4 49			
S 29	23 17	20 30	2 14	21 15	0 42	20 23	1 47	23 14	1 1	2 56	1 19	15 54	1 11	8 33	0 47	15 17	1 44	19 3	13 57	22 58	22 57	16 19	3 1	4 49			
M30	23 14	22 31	0 55	21 1	1 2	20 4	1 47	23 7	1 1	2 58	1 19	15 52	1 11	8 33	0 47	15 17	1 44	19 4	13 58	22 58	22 57	16 21	3 1	4 49			
T 31	23s10	22n56	0n27	20s48	1n21	19s45	1s47	23s 1	1s 1	3n 1	1s19	15s51	1s11	8n34	0n47	15s18	1n44	19n 4	13n58	22n58	22n57	16s24	3s 0	4n48			