



Astrodienst Ephemeris Tables for the year 2144

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 2144
geocentric

JANUARY 2144

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 40 23	9♂54'45	17♂29	23♂21	10♂20	12♂43	29°R40	0°Y16	8♂38	21♂28	14°R47	11°R25	9♂59	2°Y40	3°R55	W 1
T 2	6 44 19	10°55'55	1♂18	24°49	11°34	13°20	29II32	0°19	8°40	21°30	14II46	11♂23	9°55	2°46	3♂54	T 2
F 3	6 48 16	11°57'05	14°59	26°17	12°49	13°57	29°24	0°22	8°42	21°33	14°45	11°19	9°52	2°53	3°52	F 3
S 4	6 52 12	12°58'15	28°30	27°46	14° 3	14°34	29°16	0°25	8°44	21°35	14°44	11°12	9°49	3° 0	3°50	S 4
S 5	6 56 9	13°59'26	11♂49	29°15	15°18	15°11	29° 9	0°29	8°46	21°37	14°43	11° 2	9°46	3° 6	3°49	S 5
M 6	7 0 5	15° 0'36	24°54	0♂45	16°32	15°48	29° 1	0°32	8°48	21°39	14°42	10°50	9°43	3°13	3°47	M 6
T 7	7 4 2	16° 1'47	7♂43	2°15	17°47	16°25	28°53	0°36	8°50	21°41	14°41	10°38	9°39	3°20	3°44	T 7
W 8	7 7 59	17° 2'57	20°16	3°46	19° 1	17° 2	28°46	0°39	8°52	21°43	14°40	10°26	9°36	3°26	3°42	W 8
T 9	7 11 55	18° 4'07	2♂34	5°17	20°16	17°38	28°39	0°43	8°54	21°45	14°39	10°16	9°33	3°33	3°40	T 9
F 10	7 15 52	19° 5'17	14°39	6°48	21°31	18°15	28°32	0°47	8°56	21°47	14°38	10° 8	9°30	3°40	3°37	F 10
S 11	7 19 48	20° 6'26	26°33	8°20	22°45	18°52	28°24	0°51	8°58	21°49	14°37	10° 3	9°27	3°46	3°35	S 11
S 12	7 23 45	21° 7'35	8°Y23	9°52	24° 0	19°29	28°17	0°55	9° 0	21°51	14°36	10° 0	9°24	3°53	3°32	S 12
M13	7 27 41	22° 8'44	20°11	11°25	25°15	20° 6	28°11	0°59	9° 1	21°54	14°36	9°D59	9°20	4° 0	3°30	M13
T 14	7 31 38	23° 9'52	2♂ 5	12°58	26°29	20°42	28° 4	1° 3	9° 3	21°56	14°35	9°59	9°17	4° 6	3°27	T 14
W15	7 35 34	24°10'59	14° 9	14°32	27°44	21°19	27°57	1° 7	9° 5	21°58	14°34	9°R59	9°14	4°13	3°24	W15
T 16	7 39 31	25°12'06	26°28	16° 6	28°59	21°56	27°51	1°12	9° 6	22° 0	14°33	9°58	9°11	4°20	3°21	T 16
F 17	7 43 28	26°13'12	9II 8	17°40	0♂13	22°32	27°44	1°16	9° 8	22° 1	14°32	9°55	9° 8	4°26	3°18	F 17
S 18	7 47 24	27°14'18	22°11	19°15	1°28	23° 9	27°38	1°21	9° 9	22° 3	14°31	9°49	9° 5	4°33	3°15	S 18
S 19	7 51 21	28°15'23	5♂40	20°51	2°43	23°45	27°32	1°25	9°11	22° 5	14°31	9°40	9° 1	4°40	3°12	S 19
M20	7 55 17	29°16'27	19°33	22°27	3°57	24°22	27°26	1°30	9°12	22° 7	14°30	9°29	8°58	4°46	3° 8	M20
T 21	7 59 14	0♂17'31	3♂46	24° 3	5°12	24°59	27°20	1°35	9°13	22° 9	14°29	9°17	8°55	4°53	3° 5	T 21
W22	8 3 10	1°18'35	18°15	25°40	6°27	25°35	27°15	1°40	9°14	22°11	14°28	9° 4	8°52	5° 0	3° 2	W22
T 23	8 7 7	2°19'37	2♂51	27°18	7°42	26°12	27° 9	1°45	9°16	22°13	14°28	8°54	8°49	5° 6	2°58	T 23
F 24	8 11 3	3°20'40	17°28	28°56	8°56	26°48	27° 4	1°50	9°17	22°15	14°27	8°45	8°45	5°13	2°54	F 24
S 25	8 15 0	4°21'41	1♂59	0♂35	10°11	27°24	26°59	1°55	9°18	22°16	14°26	8°40	8°42	5°20	2°51	S 25
S 26	8 18 57	5°22'43	16°20	2°14	11°26	28° 1	26°54	2° 0	9°19	22°18	14°25	8°37	8°39	5°26	2°47	S 26
M27	8 22 53	6°23'44	0♂28	3°54	12°41	28°37	26°49	2° 5	9°20	22°20	14°25	8°36	8°36	5°33	2°43	M27
T 28	8 26 50	7°24'44	14°23	5°35	13°56	29°13	26°45	2°10	9°21	22°22	14°24	8°36	8°33	5°40	2°39	T 28
W29	8 30 46	8°25'45	28° 4	7°16	15°10	29°50	26°40	2°16	9°22	22°23	14°24	8°35	8°30	5°46	2°35	W29
T 30	8 34 43	9°26'44	11♂33	8°58	16°25	0♂26	26°36	2°21	9°22	22°25	14°23	8°33	8°26	5°53	2°31	T 30
F 31	8 38 39	10°27'43	24♂51	10♂40	17♂40	1♂ 2	26II32	2°Y27	9♂23	22♂27	14II22	8♂27	8♂23	6°Y 0	2♂27	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	23s 3	16s31	0n32	23s 1	0n14	20s38	1n21	14s43	0n58	23n 8	0s17	2s 2	2s19	13s55	0n28	21s48
T 2	22 58	18 42	1 44	23 12	0 7	20 51	1 19	14 55	0 57	23 8	0 17	2 0	2 19	13 56	0 28	21 48
F 3	22 53	19 46	2 49	23 23	0s 1	21 3	1 17	15 6	0 57	23 8	0 17	1 59	2 19	13 56	0 28	21 48
S 4	22 47	19 41	3 44	23 32	0 8	21 14	1 14	15 17	0 57	23 8	0 17	1 57	2 19	13 57	0 28	21 48
S 5	22 41	18 30	4 25	23 40	0 15	21 25	1 12	15 29	0 56	23 8	0 17	1 56	2 18	13 58	0 28	21 48
M 6	22 34	16 21	4 51	23 47	0 22	21 35	1 10	15 40	0 56	23 8	0 16	1 54	2 18	13 58	0 28	21 48
T 7	22 27	13 27	5 2	23 53	0 29	21 45	1 7	15 50	0 56	23 9	0 16	1 53	2 18	13 59	0 28	21 48
W 8	22 20	10 0	4 58	23 58	0 36	21 53	1 5	16 1	0 55	23 9	0 16	1 51	2 18	14 0	0 28	21 49
T 9	22 12	6 11	4 40	24 1	0 42	22 2	1 2	16 12	0 55	23 9	0 16	1 49	2 18	14 0	0 28	21 49
F 10	22 4	2 11	4 10	24 3	0 49	22 9	1 0	16 23	0 55	23 9	0 16	1 47	2 17	14 1	0 28	21 49
S 11	21 55	1n50	3 29	24 4	0 55	22 16	0 57	16 33	0 54	23 9	0 16	1 46	2 17	14 1	0 29	21 49
S 12	21 46	5 46	2 40	24 4	1 1	22 22	0 55	16 43	0 54	23 9	0 16	1 44	2 17	14 2	0 29	21 49
M13	21 36	9 29	1 43	24 2	1 7	22 28	0 52	16 54	0 53	23 9	0 15	1 42	2 17	14 2	0 29	21 49
T 14	21 26	12 50	0 42	23 59	1 12	22 33	0 49	17 4	0 53	23 9	0 15	1 40	2 17	14 3	0 29	21 49
W15	21 15	15 43	0s22	23 55	1 18	22 37	0 47	17 14	0 52	23 9	0 15	1 38	2 16	14 3	0 29	21 49
T 16	21 5	17 57	1 26	23 49	1 23	22 41	0 44	17 24	0 52	23 9	0 15	1 37	2 16	14 4	0 29	21 49
F 17	20 53	19 22	2 28	23 42	1 28	22 44	0 41	17 34	0 52	23 9	0 15	1 35	2 16	14 4	0 29	21 50
S 18	20 42	19 48	3 24	23 34	1 32	22 46	0 39	17 43	0 51	23 9	0 15	1 33	2 16	14 5	0 29	21 50
S 19	20 30	19 8	4 10	23 24	1 37	22 47	0 36	17 53	0 51	23 9	0 14	1 31	2 16	14 5	0 29	21 50
M20	20 17	17 20	4 43	23 13	1 41	22 48	0 33	18 2	0 50	23 9	0 14	1 29	2 16	14 6	0 29	21 50
T 21	20 4	14 26	4 59	23 0	1 45	22 48	0 31	18 11	0 50	23 9	0 14	1 27	2 15	14 6	0 29	21 50
W22	19 51	10 38	4 57	22 46	1 48	22 48	0 28	18 21	0 49	23 10	0 14	1 24	2 15	14 6	0 29	21 50
T 23	19 37	6 10	4 35	22 30	1 51	22 47	0 25	18 30	0 49	23 10	0 14	1 22	2 15	14 7	0 29	21 50
F 24	19 23	1 20	3 55	22 13	1 54	22 45	0 22	18 39	0 48	23 10	0 14	1 20	2 15	14 7	0 29	21 50
S 25	19 9	3s33	3 1	21 55	1 57	22 42	0 20	18 47	0 48	23 10	0 13	1 18	2 15	14 8	0 29	21 50
S 26	18 54	8 11	1 55	21 35	1 59	22 39	0 17	18 56	0 47	23 10	0 13	1 16	2 15	14 8	0 29	21 50
M27	18 39	12 18	0 43	21 13	2 1	22 35	0 14	19 5	0 47	23 10	0 13	1 14	2 14	14 8	0 29	21 50
T 28	18 24	15 39	0n31	20 51	2 3	22 30	0 12	19 13	0 46	23 10	0 13	1 11	2 14	14 8	0 29	21 50
W29	18 8	18 4	1 41	20 26	2 4	22 25	0 9	19 21	0 46	23 10	0 13	1 9	2 14	14 9	0 29	21 51
T 30	17 52	19 26	2 45	20 0	2 5	22 19	0 6	19 29	0 45	23 10	0 13	1 7	2 14	14 9	0 29	21 51
F 31	17s36	19s41	3n38	19s33	2s 5	22s12	0n 3	19s37	0n45	23n10	0s12	1s 4	2s14	14s 9	0n29	21s51

Julian Day Number = 2504139.5, Delta T = 117.64 sec
Ecliptic obliquity = 23°25'06, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°45'09, Lahiri = 25°52'09

ASTRODIENST EPHEMERIS for the year 2144

geocentric

MARCH 2144

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 36 56	10°47'27"	0°28'28"	28°31'31"	25°28'55"	18°27'46"	26°11'11"	5°38'38"	9°20'20"	23°27'44"	14°11'14"	5°23'23"	6°48'48"	9°20'20"	0°11'11"	S 1
M 2	10 40 53	11°47'44"	12°55'55"	29°09'29"	26°20'20"	19°20'20"	26°04'04"	5°45'45"	9°19'19"	23°05'05"	14°14'14"	5°14'14"	6°45'45"	9°26'26"	0°06'06"	M 2
T 3	10 44 49	12°48'00"	25°12'12"	29°37'37"	27°34'34"	19°55'55"	26°06'06"	5°52'52"	9°18'18"	23°06'06"	14°15'15"	5°03'03"	6°42'42"	9°33'33"	0°02'02"	T 3
W 4	10 48 46	13°48'14"	27°20'20"	29°56'56"	28°49'49"	20°29'29"	26°08'08"	5°59'59"	9°17'17"	23°07'07"	14°15'15"	4°53'53"	6°38'38"	9°40'40"	29°57'57"	W 4
T 5	10 52 42	14°48'26"	19°20'20"	0°06'06"	0°04'04"	21°03'03"	26°11'11"	6°07'07"	9°16'16"	23°07'07"	14°15'15"	4°44'44"	6°35'35"	9°46'46"	29°53'53"	T 5
F 6	10 56 39	15°48'36"	1°06'06"	0°06'06"	1°19'19"	21°38'38"	26°14'14"	6°14'14"	9°15'15"	23°08'08"	14°15'15"	4°37'37"	6°32'32"	9°53'53"	29°48'48"	F 6
S 7	11 00 35	16°48'45"	13°03'03"	29°57'57"	2°33'33"	22°12'12"	26°17'17"	6°21'21"	9°14'14"	23°09'09"	14°15'15"	4°32'32"	6°29'29"	10°00'00"	29°44'44"	S 7
S 8	11 04 32	17°48'51"	24°49'49"	29°39'39"	3°48'48"	22°46'46"	26°20'20"	6°28'28"	9°12'12"	23°09'09"	14°15'15"	4°29'29"	6°26'26"	10°06'06"	29°39'39"	S 8
M 9	11 08 28	18°48'56"	6°37'37"	29°12'12"	5°03'03"	23°20'20"	26°23'23"	6°35'35"	9°11'11"	23°10'10"	14°16'16"	4°29'29"	6°22'22"	10°13'13"	29°35'35"	M 9
T 10	11 12 25	19°48'58"	18°29'29"	28°38'38"	6°18'18"	23°54'54"	26°27'27"	6°43'43"	9°10'10"	23°10'10"	14°16'16"	4°30'30"	6°19'19"	10°20'20"	29°31'31"	T 10
W 11	11 16 21	20°48'59"	0°11'11"	27°57'57"	7°32'32"	24°27'27"	26°31'31"	6°50'50"	9°08'08"	23°11'11"	14°16'16"	4°31'31"	6°16'16"	10°26'26"	29°27'27"	W 11
T 12	11 20 18	21°48'57"	12°45'45"	27°10'10"	8°47'47"	25°01'01"	26°35'35"	6°57'57"	9°07'07"	23°11'11"	14°16'16"	4°33'33"	6°13'13"	10°33'33"	29°22'22"	T 12
F 13	11 24 15	22°48'53"	25°18'18"	26°18'18"	10°02'02"	25°35'35"	26°39'39"	7°05'05"	9°06'06"	23°12'12"	14°17'17"	4°34'34"	6°10'10"	10°40'40"	29°18'18"	F 13
S 14	11 28 11	23°48'47"	8°25'25"	25°23'23"	11°16'16"	26°08'08"	26°43'43"	7°12'12"	9°04'04"	23°12'12"	14°17'17"	4°32'32"	6°07'07"	10°46'46"	29°14'14"	S 14
S 15	11 32 08	24°48'39"	21°39'39"	24°25'25"	12°31'31"	26°42'42"	26°48'48"	7°19'19"	9°02'02"	23°12'12"	14°17'17"	4°29'29"	6°03'03"	10°53'53"	29°10'10"	S 15
M 16	11 36 04	25°48'28"	5°23'23"	23°27'27"	13°46'46"	27°15'15"	26°52'52"	7°27'27"	9°01'01"	23°13'13"	14°18'18"	4°25'25"	6°00'00"	10°59'59"	29°06'06"	M 16
T 17	11 40 01	26°48'16"	19°53'53"	22°29'29"	15°00'00"	27°48'48"	26°57'57"	7°34'34"	8°59'59"	23°13'13"	14°18'18"	4°19'19"	5°57'57"	11°06'06"	29°02'02"	T 17
W 18	11 43 57	27°48'01"	4°10'10"	21°33'33"	16°15'15"	28°21'21"	27°02'02"	7°42'42"	8°58'58"	23°13'13"	14°19'19"	4°13'13"	5°54'54"	11°13'13"	28°59'59"	W 18
T 19	11 47 54	28°47'44"	19°45'45"	20°40'40"	17°30'30"	28°54'54"	27°07'07"	7°49'49"	8°56'56"	23°13'13"	14°19'19"	4°08'08"	5°51'51"	11°19'19"	28°55'55"	T 19
F 20	11 51 50	29°47'24"	4°25'25"	19°50'50"	18°44'44"	29°27'27"	27°12'12"	7°57'57"	8°54'54"	23°14'14"	14°19'19"	4°04'04"	5°47'47"	11°26'26"	28°51'51"	F 20
S 21	11 55 47	0°06'06"	20°11'11"	19°05'05"	19°59'59"	0°00'00"	27°18'18"	8°04'04"	8°52'52"	23°14'14"	14°20'20"	4°02'02"	5°44'44"	11°33'33"	28°48'48"	S 21
S 22	11 59 44	1°46'41"	5°13'13"	18°25'25"	21°13'13"	0°33'33"	27°24'24"	8°11'11"	8°50'50"	23°14'14"	14°20'20"	4°01'01"	5°41'41"	11°39'39"	28°44'44"	S 22
M 23	12 03 40	2°46'16"	19°56'56"	17°51'51"	22°28'28"	1°06'06"	27°29'29"	8°19'19"	8°49'49"	23°14'14"	14°21'21"	4°02'02"	5°38'38"	11°46'46"	28°41'41"	M 23
T 24	12 07 37	3°45'50"	4°15'15"	17°22'22"	23°43'43"	1°38'38"	27°35'35"	8°26'26"	8°47'47"	23°14'14"	14°21'21"	4°04'04"	5°35'35"	11°53'53"	28°37'37"	T 24
W 25	12 11 33	4°45'21"	18°10'10"	16°59'59"	24°57'57"	2°10'10"	27°42'42"	8°34'34"	8°45'45"	23°14'14"	14°22'22"	4°05'05"	5°32'32"	11°59'59"	28°34'34"	W 25
T 26	12 15 30	5°44'52"	1°33'33"	16°43'43"	26°12'12"	2°43'43"	27°48'48"	8°41'41"	8°43'43"	23°14'14"	14°23'23"	4°06'06"	5°28'28"	12°06'06"	28°31'31"	T 26
F 27	12 19 26	6°44'20"	14°46'46"	16°32'32"	27°26'26"	3°15'15"	27°54'54"	8°49'49"	8°41'41"	23°14'14"	14°23'23"	4°06'06"	5°25'25"	12°13'13"	28°28'28"	F 27
S 28	12 23 23	7°43'47"	27°32'32"	16°28'28"	28°41'41"	3°47'47"	28°01'01"	8°56'56"	8°39'39"	23°14'14"	14°24'24"	4°04'04"	5°22'22"	12°19'19"	28°25'25"	S 28
S 29	12 27 19	8°43'12"	10°21'21"	16°29'29"	29°55'55"	4°19'19"	28°08'08"	9°04'04"	8°37'37"	23°14'14"	14°25'25"	4°02'02"	5°19'19"	12°26'26"	28°22'22"	S 29
M 30	12 31 16	9°42'35"	22°01'01"	16°36'36"	1°06'06"	4°50'50"	28°14'14"	9°11'11"	8°35'35"	23°14'14"	14°25'25"	3°58'58"	5°16'16"	12°33'33"	28°19'19"	M 30
T 31	12 35 13	10°41'56"	4°22'22"	16°48'48"	2°06'06"	5°22'22"	28°12'12"	9°19'19"	8°32'32"	23°14'14"	14°26'26"	3°54'54"	5°13'13"	12°39'39"	28°16'16"	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	7s31	15s 4	5n 5	1n13	1n58	14s10	1s 5	22s34	0n23	23n14	0s 8	0n14	2s10	14s 8	0n29	21s52
M 2	7 8	12 4	5 3	1 41	2 13	13 46	1 7	22 38	0 22	23 14	0 7	0 17	2 10	14 7	0 29	21 52
T 3	6 45	8 36	4 47	2 5	2 26	13 22	1 8	22 41	0 21	23 14	0 7	0 20	2 10	14 7	0 29	21 52
W 4	6 22	4 48	4 19	2 25	2 40	12 58	1 10	22 45	0 20	23 15	0 7	0 23	2 10	14 7	0 29	21 52
T 5	5 59	0 52	3 39	2 40	2 52	12 33	1 11	22 48	0 19	23 15	0 7	0 26	2 10	14 6	0 29	21 52
F 6	5 35	3n 5	2 50	2 50	3 3	12 8	1 12	22 51	0 18	23 15	0 7	0 29	2 10	14 6	0 29	21 52
S 7	5 12	6 53	1 53	2 56	3 13	11 42	1 14	22 54	0 17	23 15	0 7	0 32	2 10	14 5	0 30	21 52
S 8	4 49	10 25	0 52	2 57	3 22	11 16	1 15	22 57	0 16	23 15	0 7	0 35	2 10	14 5	0 30	21 52
M 9	4 25	13 32	0s12	2 52	3 29	10 50	1 16	23 0	0 15	23 16	0 6	0 37	2 10	14 5	0 30	21 52
T 10	4 2	16 6	1 15	2 44	3 34	10 24	1 17	23 3	0 14	23 16	0 6	0 40	2 10	14 4	0 30	21 52
W 11	3 38	18 1	2 17	2 30	3 37	9 57	1 19	23 5	0 13	23 16	0 6	0 43	2 10	14 4	0 30	21 52
T 12	3 15	19 7	3 13	2 13	3 38	9 30	1 20	23 8	0 12	23 16	0 6	0 46	2 10	14 3	0 30	21 52
F 13	2 51	19 19	4 1	1 51	3 37	9 3	1 21	23 10	0 11	23 17	0 6	0 49	2 10	14 3	0 30	21 52
S 14	2 27	18 31	4 39	1 27	3 34	8 35	1 21	23 12	0 9	23 17	0 6	0 52	2 10	14 2	0 30	21 52
S 15	2 4	16 41	5 3	1 0	3 30	8 7	1 22	23 14	0 8	23 17	0 6	0 55	2 10	14 2	0 30	21 52
M 16	1 40	13 50	5 11	0 31	3 23	7 40	1 23	23 16	0 7	23 17	0 6	0 58	2 10	14 1	0 30	21 52
T 17	1 16	10 5	5 0	0 0	3 14	7 11	1 24	23 18	0 6	23 18	0 5	1 1	2 10	14 1	0 30	21 51
W 18	0 52	5 37	4 29	0s31	3 4	6 43	1 24	23 20	0 5	23 18	0 5	1 4	2 10	14 0	0 30	21 51
T 19	0 29	0 42	3 38	1 3	2 53	6 15	1 25	23 21	0 4	23 18	0 5	1 7	2 10	14 0	0 30	21 51
F 20	0 5	4s18	2 32	1 34	2 40	5 46	1 26	23 23	0 2	23 18	0 5	1 10	2 10	13 59	0 30	21 51
S 21	0n19	9 2	1 15	2 4	2 27	5 17	1 26	23 24	0 1	23 19	0 5	1 13	2 10	13 59	0 30	21 51
S 22	0 42	13 9	0n 7	2 33	2 12	4 48	1 26	23 25	0s 0	23 19	0 5	1 16	2 10	13 58	0 30	21 51
M 23	1 6	16 19	1 26	3 0	1 58	4 19	1 27	23 26	0 1	23 19	0 5	1 19	2 10	13 57	0 30	21 51
T 24	1 30	18 23	2 38	3 25	1 42	3 50	1 27	23 27	0 3	23 19	0 4	1 22	2 10	13 57	0 30	21 51
W 25	1 53	19 15	3 39	3 48	1 27	3 20	1 27	23 28	0 4	23 20	0 4	1 24	2 10	13 56	0 30	21 51
T 26	2 17	18 59	4 25	4 8	1 12	2 51	1 27	23 29	0 5	23 20	0 4	1 27	2 10	13 55	0 30	21 51
F 27	2 40	17 41	4 57	4 27	0 56	2 21	1 27	23 30	0 7	23 20	0 4	1 30	2 10	13 55	0 30	21 51
S 28	3 4	15 32	5 12	4 42	0 41	1 52	1 27	23 30	0 8	23 20	0 4	1 33	2 10	13 54	0 30	21 51
S 29	3 27	12 42	5 13	4 55	0 27	1 22	1 27	23 31	0 10	23 20	0 4	1 36	2 10	13 53	0 30	21 51
M 30	3 51	9 22	4 58	5 6	0 12	0 52	1 27	23 31	0 11	23 21	0 4	1 39	2 10	13 53	0 30	21 51
T 31	4n14	5s41	4n31	5s14	0s 2	0s22	1s27	23s31	0s13	23n21	0s 4	1n42	2s10	13s52	0n30	21s51

Julian Day Number = 2504199.5, Delta T = 117.75 sec
 Ecliptic obliquity = 23°25'07", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°45'17", Lahiri = 25°52'17"

ASTRODIENST EPHEMERIS for the year 2144

geocentric

APRIL 2144

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	4n37	1s49	3n52	5s19	0s15	0n7	1s27	23s31	0s14	23n21	0s3	1n45	2s10	13s51	0n30	21s51
T 2	5 0	2n6	3 4	5 23	0 28	0 37	1 26	23 31	0 16	23 21	0 3	1 48	2 10	13 51	0 30	21 51
F 3	5 23	5 55	2 7	5 23	0 40	1 7	1 26	23 31	0 17	23 22	0 3	1 51	2 10	13 50	0 30	21 51
S 4	5 46	9 30	1 5	5 22	0 52	1 37	1 26	23 31	0 19	23 22	0 3	1 54	2 10	13 49	0 30	21 51
S 5	6 9	12 43	0 1	5 18	1 3	2 6	1 25	23 31	0 20	23 22	0 3	1 57	2 10	13 49	0 30	21 51
M 6	6 32	15 26	1s5	5 12	1 14	2 36	1 25	23 31	0 22	23 22	0 3	2 0	2 10	13 48	0 30	21 51
T 7	6 54	17 30	2 8	5 5	1 24	3 6	1 24	23 30	0 24	23 22	0 3	2 2	2 10	13 47	0 30	21 51
W 8	7 17	18 48	3 6	4 55	1 33	3 36	1 23	23 30	0 25	23 22	0 3	2 5	2 10	13 46	0 30	21 51
T 9	7 39	19 14	3 56	4 43	1 42	4 5	1 22	23 30	0 27	23 23	0 3	2 8	2 10	13 46	0 30	21 50
F 10	8 1	18 44	4 37	4 29	1 50	4 35	1 22	23 29	0 29	23 23	0 2	2 11	2 10	13 45	0 30	21 50
S 11	8 24	17 16	5 5	4 14	1 57	5 4	1 21	23 28	0 31	23 23	0 2	2 14	2 10	13 44	0 30	21 50
S 12	8 45	14 50	5 17	3 57	2 4	5 33	1 20	23 28	0 32	23 23	0 2	2 17	2 10	13 43	0 30	21 50
M13	9 0	2n6	5 12	3 58	2 11	6 2	1 19	23 27	0 34	23 23	0 2	2 20	2 10	13 42	0 30	21 50
T 14	9 29	7 28	4 49	3 18	2 17	6 31	1 18	23 26	0 36	23 23	0 2	2 22	2 10	13 42	0 30	21 50
W15	9 50	2 52	4 6	2 56	2 22	7 0	1 17	23 25	0 38	23 23	0 2	2 25	2 10	13 41	0 30	21 50
T 16	10 12	2s2	3 6	2 32	2 26	7 29	1 16	23 24	0 40	23 23	0 2	2 28	2 10	13 40	0 30	21 50
F 17	10 33	6 53	1 52	2 7	2 31	7 58	1 14	23 23	0 42	23 23	0 2	2 31	2 11	13 39	0 30	21 50
S 18	10 54	11 19	0 30	1 41	2 34	8 26	1 13	23 22	0 44	23 23	0 2	2 34	2 11	13 38	0 30	21 50
S 19	11 15	15 0	0n53	1 13	2 37	8 54	1 12	23 21	0 46	23 23	0 1	2 36	2 11	13 38	0 30	21 50
M20	11 35	17 36	2 12	0 44	2 39	9 22	1 10	23 20	0 48	23 24	0 1	2 39	2 11	13 37	0 30	21 50
T 21	11 56	19 0	3 21	0 14	2 41	9 50	1 9	23 19	0 50	23 24	0 1	2 42	2 11	13 36	0 30	21 50
W22	12 16	19 8	4 15	0n17	2 42	10 18	1 7	23 18	0 52	23 24	0 1	2 45	2 11	13 35	0 30	21 50
T 23	12 36	18 8	4 53	0 50	2 43	10 45	1 6	23 16	0 54	23 24	0 1	2 47	2 11	13 34	0 30	21 49
F 24	12 56	16 11	5 13	1 23	2 43	11 12	1 4	23 15	0 56	23 23	0 1	2 50	2 11	13 34	0 30	21 49
S 25	13 15	13 28	5 18	1 58	2 43	11 39	1 3	23 14	0 59	23 23	0 1	2 53	2 11	13 33	0 30	21 49
S 26	13 35	10 13	5 7	2 34	2 42	12 5	1 1	23 12	1 1	23 23	0 1	2 55	2 11	13 32	0 30	21 49
M27	13 54	6 36	4 42	3 11	2 40	12 32	0 59	23 11	1 3	23 23	0 1	2 58	2 11	13 31	0 30	21 49
T 28	14 13	2 46	4 5	3 49	2 38	12 57	0 58	23 10	1 5	23 23	0 0	3 1	2 12	13 30	0 30	21 49
W29	14 32	1n8	3 19	4 28	2 36	13 23	0 56	23 9	1 8	23 23	0 0	3 3	2 12	13 29	0 30	21 49
T 30	14n50	4n58	2n24	5n7	2s33	13n48	0s54	23s7	1s10	23n23	0s0	3n6	2s12	13s29	0n30	21s49

Julian Day Number = 2504230.5, Delta T = 117.80 sec

Ecliptic obliquity = 23°25'07, Nutation = 0°00'10, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°45'21, Lahiri = 25°52'22

ASTRODIENST EPHEMERIS for the year 2144
geocentric

MAY 2144

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	14 37 26	11♌ 4°55	18♋47	20♋46	10♌47	20♌12	3♌ 2	13♋ 5	7°R17	22°R53	14♌55	3♌47	3♌34	16♋ 6	27♌40	F 1
S 2	14 41 22	12° 3'14	0♌36	22°27	12° 1	20°37	3°13	13°12	7♌14	22°♌52	14°56	3°R47	3°31	16°12	27°41	S 2
S 3	14 45 19	13° 1'31	12°29	24°10	13°15	21° 1	3°24	13°19	7°12	22°50	14°58	3°47	3°28	16°19	27°41	S 3
M 4	14 49 15	13°59'46	24°29	25°54	14°29	21°26	3°35	13°26	7° 9	22°49	14°59	3°46	3°24	16°26	27°42	M 4
T 5	14 53 12	14°58'00	6♌37	27°41	15°43	21°50	3°46	13°33	7° 7	22°48	15° 0	3°45	3°21	16°32	27°43	T 5
W 6	14 57 8	15°56'12	18°56	29°29	16°57	22°13	3°57	13°40	7° 4	22°47	15° 1	3°44	3°18	16°39	27°44	W 6
T 7	15 1 5	16°54'22	1♌27	1♌19	18°11	22°37	4° 8	13°46	7° 2	22°46	15° 3	3°42	3°15	16°45	27°45	T 7
F 8	15 5 2	17°52'30	14°11	3°11	19°25	23° 0	4°19	13°53	6°59	22°44	15° 4	3°40	3°12	16°52	27°46	F 8
S 9	15 8 58	18°50'37	27°12	5° 4	20°39	23°22	4°31	14° 0	6°57	22°43	15° 5	3°39	3° 9	16°59	27°48	S 9
S 10	15 12 55	19°48'41	10♌30	7° 0	21°53	23°45	4°42	14° 6	6°54	22°42	15° 6	3°38	3° 5	17° 5	27°49	S 10
M 11	15 16 51	20°46'44	24° 8	8°57	23° 7	24° 6	4°54	14°13	6°52	22°41	15° 8	3°D37	3° 2	17°12	27°51	M 11
T 12	15 20 48	21°44'44	8♌ 5	10°56	24°21	24°28	5° 5	14°19	6°49	22°39	15° 9	3°38	2°59	17°19	27°52	T 12
W 13	15 24 44	22°42'43	22°22	12°57	25°35	24°49	5°17	14°26	6°47	22°38	15°10	3°39	2°56	17°25	27°54	W 13
T 14	15 28 41	23°40'39	6♌57	14°59	26°49	25°10	5°29	14°32	6°44	22°37	15°11	3°40	2°53	17°32	27°56	T 14
F 15	15 32 37	24°38'34	21°45	17° 3	28° 3	25°30	5°40	14°39	6°42	22°35	15°13	3°41	2°50	17°39	27°58	F 15
S 16	15 36 34	25°36'27	6♌40	19° 9	29°17	25°50	5°52	14°45	6°40	22°34	15°14	3°R42	2°46	17°45	28° 0	S 16
S 17	15 40 31	26°34'19	21°35	21°16	0♌31	26°10	6° 4	14°51	6°37	22°32	15°15	3°41	2°43	17°52	28° 2	S 17
M 18	15 44 27	27°32'09	6♌23	23°24	1°45	26°29	6°16	14°57	6°35	22°31	15°17	3°39	2°40	17°59	28° 5	M 18
T 19	15 48 24	28°29'58	20°55	25°33	2°58	26°47	6°28	15° 4	6°33	22°30	15°18	3°36	2°37	18° 5	28° 7	T 19
W 20	15 52 20	29°27'46	5♌ 6	27°43	4°12	27° 6	6°40	15°10	6°30	22°28	15°19	3°32	2°34	18°12	28° 9	W 20
T 21	15 56 17	0♌25'32	18°52	29°54	5°26	27°23	6°52	15°16	6°28	22°27	15°21	3°29	2°30	18°19	28°12	T 21
F 22	16 0 13	1°23'17	2♌11	2♌ 6	6°40	27°41	7° 5	15°22	6°26	22°25	15°22	3°25	2°27	18°25	28°15	F 22
S 23	16 4 10	2°21'01	15° 5	4°17	7°54	27°57	7°17	15°28	6°24	22°24	15°23	3°23	2°24	18°32	28°18	S 23
S 24	16 8 6	3°18'44	27°37	6°29	9° 7	28°14	7°29	15°34	6°21	22°22	15°25	3°22	2°21	18°39	28°21	S 24
M 25	16 12 3	4°16'26	9♌51	8°40	10°21	28°30	7°42	15°39	6°19	22°21	15°26	3°D22	2°18	18°45	28°24	M 25
T 26	16 16 0	5°14'07	21°51	10°50	11°35	28°45	7°54	15°45	6°17	22°19	15°27	3°23	2°15	18°52	28°27	T 26
W 27	16 19 56	6°11'46	3♋42	13° 0	12°49	28°59	8° 6	15°51	6°15	22°18	15°29	3°24	2°11	18°58	28°30	W 27
T 28	16 23 53	7° 9'25	15°29	15° 8	14° 3	29°14	8°19	15°57	6°13	22°16	15°30	3°26	2° 8	19° 5	28°33	T 28
F 29	16 27 49	8° 7'03	27°17	17°16	15°16	29°27	8°32	16° 2	6°11	22°15	15°31	3°27	2° 5	19°12	28°37	F 29
S 30	16 31 46	9° 4'40	9♌10	19°21	16°30	29°40	8°44	16° 8	6° 9	22°13	15°33	3°R27	2° 2	19°18	28°40	S 30
S 31	16 35 42	10♌ 2'16	21♌10	21♌25	17♌44	29♌53	8♌57	16♋13	6♌ 7	22♌11	15♌34	3♌26	1♌59	19♋25	28♌44	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
F 1	15n 8	8n37	1n22	5n48	2s29	14n13	0s52	23s 6	1s13	23n23	0s 0	3n 8	2s12	13s28	0n30	21s49	1n25	12n23	10s15	12s46	12s42	7n45	6n35	6s 3	
S 2	15 26	11 57	0 18	6 29	2 25	14 38	0 50	23 5	1 15	23 23	0 0	3 11	2 12	13 27	0 30	21 49	1 25	12 23	10 15	12 46	12 41	7 47	6 35	6 2	
S 3	15 44	14 48	0s48	7 11	2 20	15 2	0 48	23 3	1 18	23 23	0n 0	3 14	2 12	13 26	0 30	21 49	1 25	12 23	10 14	12 46	12 40	7 49	6 36	6 2	
M 4	16 2	17 3	1 52	7 54	2 15	15 26	0 46	23 2	1 20	23 22	0 0	3 16	2 12	13 25	0 30	21 49	1 25	12 24	10 14	12 46	12 38	7 51	6 37	6 1	
T 5	16 19	18 34	2 52	8 37	2 9	15 50	0 44	23 1	1 23	23 22	0 0	3 19	2 12	13 25	0 30	21 48	1 25	12 24	10 14	12 45	12 37	7 52	6 37	6 0	
W 6	16 36	19 13	3 45	9 21	2 3	16 13	0 42	23 0	1 26	23 22	0 0	3 21	2 12	13 24	0 30	21 48	1 25	12 24	10 14	12 45	12 36	7 54	6 37	5 59	
T 7	16 52	18 57	4 28	10 6	1 57	16 35	0 40	22 59	1 28	23 22	0 0	3 24	2 13	13 23	0 30	21 48	1 25	12 25	10 14	12 44	12 35	7 56	6 38	5 58	
F 8	17 9	17 43	4 59	10 51	1 50	16 58	0 38	22 57	1 31	23 21	0 1	3 26	2 13	13 22	0 30	21 48	1 25	12 25	10 14	12 44	12 34	7 58	6 38	5 57	
S 9	17 25	15 33	5 15	11 36	1 42	17 20	0 36	22 56	1 34	23 21	0 1	3 28	2 13	13 21	0 30	21 48	1 25	12 25	10 14	12 43	12 33	7 59	6 39	5 57	
S 10	17 40	12 33	5 14	12 21	1 34	17 41	0 34	22 55	1 37	23 21	0 1	3 31	2 13	13 20	0 30	21 48	1 25	12 25	10 13	12 43	12 32	8 1	6 39	5 56	
M11	17 56	8 48	4 57	13 7	1 26	18 2	0 31	22 54	1 39	23 21	0 1	3 33	2 13	13 20	0 30	21 48	1 25	12 26	10 13	12 43	12 31	8 3	6 39	5 55	
T 12	18 11	4 29	4 21	13 53	1 17	18 22	0 29	22 53	1 42	23 20	0 1	3 36	2 13	13 19	0 30	21 48	1 25	12 26	10 13	12 43	12 30	8 5	6 39	5 54	
W13	18 26	0s11	3 29	14 38	1 8	18 42	0 27	22 52	1 45	23 20	0 1	3 38	2 13	13 18	0 30	21 48	1 25	12 26	10 13	12 43	12 29	8 7	6 39	5 53	
T 14	18 41	4 56	2 23	15 24	0 58	19 2	0 25	22 52	1 48	23 19	0 1	3 40	2 14	13 17	0 30	21 48	1 25	12 26	10 13	12 44	12 28	8 8	6 40	5 52	
F 15	18 55	9 29	1 6	16 9	0 48	19 21	0 22	22 51	1 51	23 19	0 1	3 43	2 14	13 17	0 29	21 48	1 25	12 27	10 13	12 44	12 26	8 10	6 40	5 52	
S 16	19 9	13 28	0n16	16 53	0 38	19 39	0 20	22 50	1 55	23 19	0 1	3 45	2 14	13 16	0 29	21 47	1 25	12 27	10 13	12 44	12 25	8 12	6 40	5 51	
S 17	19 22	16 35	1 37	17 37	0 28	19 57	0 18	22 49	1 58	23 18	0 1	3 47	2 14	13 15	0 29	21 47	1 25	12 27	10 13	12 44	12 24	8 14	6 40	5 50	
M18	19 36	18 33	2 51	18 19	0 17	20 15	0 15	22 49	2 1	23 18	0 2	3 49	2 14	13 14	0 29	21 47	1 25	12 27	10 12	12 43	12 23	8 15	6 40	5 49	
T 19	19 48	19 15	3 52	19 1	0 7	20 31	0 13	22 49	2 4	23 17	0 2	3 52	2 14	13 14	0 29	21 47	1 25	12 28	10 12	12 42	12 22	8 17	6 40	5 48	
W20	20 1	18 43	4 37	19 42	0n 4	20 48	0 11	22 48	2 7	23 17	0 2	3 54	2 15	13 13	0 29	21 47	1 25	12 28	10 12	12 41	12 21	8 19	6 40	5 48	
T 21	20 13	17 4	5 4	20 21	0 14	21 3	0 8	22 48	2 11	23 16	0 2	3 56	2 15	13 12	0 29	21 47	1 25	12 28	10 12	12 40	12 20	8 21	6 40	5 47	
F 22	20 25	14 33	5 14	20 58	0 25	21 18	0 6	22 48	2 14	23 16	0 2	3 58	2 15	13 11	0 29	21 47	1 25	12 28	10 12	12 39	12 19	8 22	6 39	5 46	
S 23	20 37	11 23	5 8	21 33	0 35	21 33	0 3	22 48	2 18	23 15	0 2	4 0	2 15	13 11	0 29	21 47	1 25	12 28	10 12	12 38	12 18	8 24	6 39	5 45	
S 24	20 48	7 48	4 47	22 6	0 45	21 47	0 1	22 48	2 21	23 15	0 2	4 2	2 15	13 10	0 29	21 47	1 25	12 29	10 12	12 37	12 17	8 26	6 39	5 44	
M25	20 59	3 58	4 13	22 37	0 54	22 0	0n 1	22 48	2 25	23 14	0 2	4 4	2 15	13 9	0 29	21 47	1 25	12 29	10 12	12 37	12 16	8 27	6 39	5 44	
T 26	21 9	0 2	3 29	23 6	1 4	22 13	0 4	22 49	2 28	23 13	0 2	4 6	2 16	13 9	0 29	21 47	1 25	12 29	10 12	12 38	12 15	8 29	6 38	5 43	
W27	21 19	3n51	2 36	23 32	1 13	22 25	0 6	22 49	2 32	23 13	0 2	4 8	2 16	13 8	0 29	21 46	1 25	12 29	10 12	12 38	12 13	8 31	6 38	5 42	
T 28	21 29	7 35	1 37	23 56	1 21	22 36	0 9	22 50	2 35	23 12	0 3	4 10	2 16	13 7	0 29	21 46	1 25	12 30	10 12	12 39	12 12	8 33	6 38	5 41	
F 29	21 39	11 1	0 34	24 17	1 28	22 47	0 11	22 51	2 39	23 11	0 3	4 12	2 16	13 7	0 29	21 46	1 25	12 30	10 12	12 39	12 11	8 34	6 37	5 40	
S 30	21 48	14 3	0s31	24 35	1 36	22 57	0 13	22 51	2 43	23 11	0 3	4 14	2 16	13 6	0 29	21 46	1 25	12 30	10 11	12 39	12 10	8 36	6 37	5 40	
S 31	21n56	16n30	1s35	24n50	1n42	23n 7	0n16	22s53	2s47	23n10	0n 3	4n16	2s17	13s 5	0n29	21s46	1n25	12n30	10s11	12s39	12s 9	8n38	6n36	5s39	

ASTRODIENST EPHEMERIS for the year 2144
geocentric

JUNE 2144

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 39 39	10II59'50	3II21	23II26	18II58	0≈ 5	9≈10	16V19	6°R 5	22°R10	15II36	3°R22	1II56	19V32	28II48	M 1
T 2	16 43 35	11°57'24	15°44	25°26	20°11	0°16	9°22	16°24	6II 3	22≈ 8	15°37	3II17	1°52	19°38	28°51	T 2
W 3	16 47 32	12°54'57	28°20	27°23	21°25	0°26	9°35	16°29	6° 1	22° 7	15°38	3°11	1°49	19°45	28°55	W 3
T 4	16 51 29	13°52'28	11≈ 9	29°17	22°39	0°36	9°48	16°34	5°59	22° 5	15°40	3° 4	1°46	19°52	28°59	T 4
F 5	16 55 25	14°49'59	24°12	1≈10	23°52	0°46	10° 1	16°39	5°58	22° 3	15°41	2°57	1°43	19°58	29° 3	F 5
S 6	16 59 22	15°47'28	7II28	3° 0	25° 6	0°54	10°14	16°45	5°56	22° 2	15°42	2°51	1°40	20° 5	29° 7	S 6
S 7	17 3 18	16°44'56	20°57	4°47	26°20	1° 2	10°27	16°50	5°54	22° 0	15°44	2°47	1°36	20°12	29°12	S 7
M 8	17 7 15	17°42'23	4II39	6°31	27°33	1°10	10°40	16°54	5°52	21°59	15°45	2°44	1°33	20°18	29°16	M 8
T 9	17 11 11	18°39'48	18°33	8°13	28°47	1°16	10°53	16°59	5°51	21°57	15°47	2°D44	1°30	20°25	29°21	T 9
W10	17 15 8	19°37'13	2≈39	9°52	0≈ 1	1°22	11° 6	17° 4	5°49	21°55	15°48	2°44	1°27	20°32	29°25	W10
T 11	17 19 4	20°34'36	16°56	11°29	1°14	1°28	11°19	17° 9	5°47	21°54	15°49	2°45	1°24	20°38	29°30	T 11
F 12	17 23 1	21°31'58	1II22	13° 2	2°28	1°32	11°32	17°13	5°46	21°52	15°51	2°R46	1°21	20°45	29°34	F 12
S 13	17 26 58	22°29'19	15°54	14°33	3°42	1°36	11°45	17°18	5°44	21°51	15°52	2°45	1°17	20°51	29°39	S 13
S 14	17 30 54	23°26'40	0≈27	16° 1	4°55	1°39	11°59	17°22	5°43	21°49	15°53	2°43	1°14	20°58	29°44	S 14
M15	17 34 51	24°23'59	14°55	17°27	6° 9	1°42	12°12	17°27	5°42	21°47	15°55	2°38	1°11	21° 5	29°49	M15
T 16	17 38 47	25°21'18	29°13	18°49	7°22	1°44	12°25	17°31	5°40	21°46	15°56	2°31	1° 8	21°11	29°54	T 16
W17	17 42 44	26°18'36	13≈15	20° 9	8°36	1°45	12°38	17°35	5°39	21°44	15°58	2°22	1° 5	21°18	29°59	W17
T 18	17 46 40	27°15'53	26°56	21°25	9°49	1°R45	12°52	17°39	5°38	21°42	15°59	2°14	1° 2	21°25	0≈ 4	T 18
F 19	17 50 37	28°13'10	10≈14	22°39	11° 3	1°44	13° 5	17°43	5°36	21°41	16° 0	2° 5	0°58	21°31	0°10	F 19
S 20	17 54 33	29°10'27	23° 9	23°50	12°16	1°43	13°18	17°47	5°35	21°39	16° 2	1°58	0°55	21°38	0°15	S 20
S 21	17 58 30	0≈ 7'43	5≈42	24°57	13°30	1°41	13°32	17°51	5°34	21°38	16° 3	1°53	0°52	21°45	0°21	S 21
M22	18 2 27	1° 4'59	17°56	26° 2	14°44	1°38	13°45	17°55	5°33	21°36	16° 4	1°50	0°49	21°51	0°26	M22
T 23	18 6 23	2° 2'15	29°57	27° 3	15°57	1°35	13°58	17°59	5°32	21°34	16° 6	1°D49	0°46	21°58	0°32	T 23
W24	18 10 20	2°59'30	11V49	28° 1	17°11	1°31	14°12	18° 3	5°31	21°33	16° 7	1°50	0°42	22° 5	0°37	W24
T 25	18 14 16	3°56'46	23°37	28°55	18°24	1°26	14°25	18° 6	5°30	21°31	16° 8	1°50	0°39	22°11	0°43	T 25
F 26	18 18 13	4°54'01	5≈27	29°46	19°38	1°20	14°39	18°10	5°29	21°30	16°10	1°R51	0°36	22°18	0°49	F 26
S 27	18 22 9	5°51'16	17°23	0II34	20°51	1°13	14°52	18°13	5°28	21°28	16°11	1°49	0°33	22°25	0°55	S 27
S 28	18 26 6	6°48'31	29°30	1°17	22° 4	1° 6	15° 6	18°16	5°27	21°27	16°12	1°46	0°30	22°31	1° 1	S 28
M29	18 30 2	7°45'46	11II52	1°57	23°18	0°58	15°19	18°19	5°27	21°25	16°14	1°40	0°27	22°38	1° 7	M29
T 30	18 33 59	8≈43'01	24II29	2II33	24≈31	0≈49	15≈33	18V23	5II26	21≈23	16II15	1II32	0II23	22V44	1II13	T 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	22n 4	18n15	2s36	25n 3	1n48	23n16	0n18	22s54	2s51	23n 9	0n 3	4n18	2s17	13s 5	0n29	21s46
T 2	22 12 19	11 3	30 25 13	1 53	23 24	0 21	22 55	2 55	23 8	0 3	4 20	2 17	13 4	0 29	21 46	1 25
W 3	22 20 19	10 4	15 25 20	1 57	23 31	0 23	22 57	2 59	23 7	0 3	4 22	2 17	13 4	0 29	21 46	1 25
T 4	22 27 18	11 4	47 25 25	2 0	23 38	0 25	22 58	3 3	23 7	0 3	4 24	2 17	13 3	0 29	21 46	1 25
F 5	22 33 16	14 5	6 25 28	2 3	23 44	0 28	23 0	3 7	23 6	0 3	4 25	2 18	13 2	0 29	21 46	1 25
S 6	22 40 13	25 5	8 25 28	2 5	23 50	0 30	23 2	3 11	23 5	0 3	4 27	2 18	13 2	0 29	21 45	1 25
S 7	22 46 9	51 4	54 25 26	2 6	23 54	0 32	23 5	3 15	23 4	0 3	4 29	2 18	13 1	0 29	21 45	1 25
M 8	22 51 5	43 4	23 25 22	2 7	23 58	0 35	23 7	3 19	23 3	0 4	4 30	2 18	13 1	0 29	21 45	1 25
T 9	22 56 1	12 3	36 25 16	2 6	24 2	0 37	23 10	3 23	23 2	0 4	4 32	2 18	13 0	0 29	21 45	1 25
W10	23 1 3s26	2 36	25 8	2 5	24 4	0 39	23 13	3 28	23 1	0 4	4 34	2 19	13 0	0 29	21 45	1 25
T 11	23 5 7	57 1	25 24 58	2 3	24 6	0 41	23 16	3 32	23 0	0 4	4 35	2 19	12 59	0 29	21 45	1 25
F 12	23 9 12	3 0	8 24 47	2 0	24 7	0 43	23 19	3 36	22 59	0 4	4 37	2 19	12 59	0 29	21 45	1 25
S 13	23 12 15	28 1n10	24 34	1 57	24 8	0 46	23 22	3 41	22 58	0 4	4 38	2 19	12 58	0 29	21 45	1 25
S 14	23 15 17	53 2	24 24 20	1 53	24 7	0 48	23 26	3 45	22 57	0 4	4 40	2 20	12 58	0 29	21 45	1 25
M15	23 18 19	8 3	27 24 4	1 48	24 6	0 50	23 29	3 49	22 56	0 4	4 41	2 20	12 57	0 29	21 45	1 25
T 16	23 20 19	8 4	17 23 47	1 42	24 5	0 52	23 33	3 54	22 55	0 4	4 43	2 20	12 57	0 29	21 45	1 25
W17	23 22 17	57 4	49 23 30	1 36	24 2	0 54	23 37	3 58	22 53	0 4	4 44	2 20	12 56	0 29	21 44	1 25
T 18	23 23 15	46 5	5 23 11	1 29	23 59	0 56	23 42	4 3	22 52	0 4	4 45	2 21	12 56	0 29	21 44	1 25
F 19	23 24 12	48 5	3 22 51	1 22	23 55	0 58	23 46	4 7	22 51	0 5	4 47	2 21	12 56	0 29	21 44	1 25
S 20	23 25 9	17 4	46 22 31	1 13	23 51	1 0	23 51	4 12	22 50	0 5	4 48	2 21	12 55	0 29	21 44	1 25
S 21	23 25 5	28 4	15 22 11	1 4	23 45	1 2	23 56	4 16	22 49	0 5	4 49	2 21	12 55	0 29	21 44	1 25
M22	23 25 1	30 3	33 21 49	0 55	23 40	1 4	24 1	4 21	22 47	0 5	4 51	2 22	12 55	0 29	21 44	1 25
T 23	23 24 2n28	2 42	21 28	0 45	23 33	1 5	24 6	4 25	22 46	0 5	4 52	2 22	12 54	0 29	21 44	1 25
W24	23 23 6	17 1	45 21 6	0 34	23 26	1 7	24 11	4 30	22 45	0 5	4 53	2 22	12 54	0 29	21 44	1 25
T 25	23 22 9	51 0	44 20 43	0 23	23 18	1 9	24 17	4 34	22 43	0 5	4 54	2 22	12 54	0 28	21 44	1 25
F 26	23 20 13	1 0s19	20 21	0 11	23 9	1 11	24 22	4 39	22 42	0 5	4 55	2 23	12 53	0 28	21 44	1 25
S 27	23 17 15	42 1	22 19 59	0s 2	22 59	1 12	24 28	4 43	22 41	0 5	4 56	2 23	12 53	0 28	21 44	1 25
S 28	23 15 17	43 2	22 19 37	0 15	22 49	1 14	24 34	4 47	22 39	0 5	4 57	2 23	12 53	0 28	21 44	1 25
M29	23 11 18	57 3	16 19 15	0 28	22 39	1 15	24 40	4 52	22 38	0 5	4 58	2 23	12 53	0 28	21 43	1 25
T 30	23n 8	19n16	4s 2	18n53	0s42	22n27	1n17	24s46	4s56	22n36	0n 6	4n59	2s24	12s53	0n28	21s43

Julian Day Number = 2504291.5, Delta T = 117.91 sec
Ecliptic obliquity = 23°25'05, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°45'30, Lahiri = 25°52'30

ASTRODIENST EPHEMERIS for the year 2144
geocentric

JULY 2144

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 37 56	9 ⁵⁴ 0'16	7 ⁵² 24	3 ⁵ 5	25 ⁵⁴ 45	0°R40	15 ⁵⁴ 46	18 ⁵⁴ 26	5°R25	21°R22	16 ¹¹ 16	1°R22	0 ¹¹ 20	22 ⁵⁴ 51	1 ¹¹ 19	W 1
T 2	18 41 52	10°37'31	20°35	3°32	26°58	0 ⁵⁴ 30	16° 0	18°28	5 ¹¹ 25	21° ⁵⁴ 20	16°17	1 ¹¹ 11	0°17	22°58	1°25	T 2
F 3	18 45 49	11°34'45	4 ⁵⁴ 2	3°56	28°12	0°19	16°13	18°31	5°24	21°19	16°19	0°59	0°14	23° 4	1°32	F 3
S 4	18 49 45	12°31'59	17°41	4°15	29°25	0° 8	16°27	18°34	5°24	21°17	16°20	0°49	0°11	23°11	1°38	S 4
S 5	18 53 42	13°29'13	1 ¹¹ 29	4°29	0 ⁵⁴ 39	29 ⁵⁴ 56	16°40	18°37	5°23	21°16	16°21	0°42	0° 8	23°18	1°44	S 5
M 6	18 57 38	14°26'26	15°26	4°39	1°52	29°43	16°54	18°39	5°23	21°15	16°22	0°36	0° 4	23°24	1°51	M 6
T 7	19 1 35	15°23'39	29°27	4°44	3° 5	29°30	17° 7	18°42	5°22	21°13	16°24	0°34	0° 1	23°31	1°57	T 7
W 8	19 5 31	16°20'52	13 ⁵⁴ 33	4°R44	4°19	29°17	17°21	18°44	5°22	21°12	16°25	0°D33	29 ⁵⁴ 58	23°38	2° 4	W 8
T 9	19 9 28	17°18'05	27°41	4°40	5°32	29° 2	17°34	18°46	5°22	21°10	16°26	0°R33	29°55	23°44	2°11	T 9
F 10	19 13 25	18°15'17	11 ¹¹ 50	4°31	6°45	28°48	17°48	18°49	5°22	21° 9	16°27	0°33	29°52	23°51	2°17	F 10
S 11	19 17 21	19°12'29	26° 1	4°18	7°59	28°33	18° 1	18°51	5°21	21° 7	16°29	0°31	29°48	23°58	2°24	S 11
S 12	19 21 18	20° 9'42	10 ⁵⁴ 9	4° 0	9°12	28°18	18°15	18°53	5°21	21° 6	16°30	0°26	29°45	24° 4	2°31	S 12
M13	19 25 14	21° 6'54	24°12	3°38	10°25	28° 2	18°29	18°54	5°D21	21° 5	16°31	0°19	29°42	24°11	2°38	M13
T 14	19 29 11	22° 4'06	8 ⁵⁴ 7	3°12	11°39	27°46	18°42	18°56	5°21	21° 3	16°32	0°10	29°39	24°18	2°45	T 14
W15	19 33 7	23° 1'18	21°49	2°42	12°52	27°30	18°56	18°58	5°21	21° 2	16°33	29 ⁵⁴ 58	29°36	24°24	2°52	W15
T 16	19 37 4	23°58'31	5 ⁵⁴ 15	2° 9	14° 5	27°13	19° 9	18°59	5°22	21° 1	16°34	29°46	29°33	24°31	2°59	T 16
F 17	19 41 0	24°55'44	18°22	1°33	15°19	26°56	19°23	19° 1	5°22	20°59	16°36	29°34	29°29	24°37	3° 6	F 17
S 18	19 44 57	25°52'57	1 ⁵⁴ 10	0°56	16°32	26°40	19°36	19° 2	5°22	20°58	16°37	29°24	29°26	24°44	3°13	S 18
S 19	19 48 54	26°50'10	13°39	0°16	17°45	26°23	19°50	19° 4	5°22	20°57	16°38	29°16	29°23	24°51	3°20	S 19
M20	19 52 50	27°47'25	25°52	29 ⁵⁴ 36	18°58	26° 6	20° 3	19° 5	5°23	20°56	16°39	29°11	29°20	24°57	3°28	M20
T 21	19 56 47	28°44'40	7 ⁵⁴ 52	28°55	20°11	25°49	20°16	19° 6	5°23	20°54	16°40	29° 8	29°17	25° 4	3°35	T 21
W22	20 0 43	29°41'55	19°43	28°15	21°25	25°32	20°30	19° 7	5°23	20°53	16°41	29° 7	29°13	25°11	3°42	W22
T 23	20 4 40	0 ⁵⁴ 39'12	1 ⁵⁴ 32	27°36	22°38	25°15	20°43	19° 8	5°24	20°52	16°42	29° 7	29°10	25°17	3°50	T 23
F 24	20 8 36	1°36'29	13°22	26°59	23°51	24°58	20°57	19° 9	5°24	20°51	16°43	29° 7	29° 7	25°24	3°57	F 24
S 25	20 12 33	2°33'47	25°21	26°24	25° 4	24°41	21°10	19° 9	5°25	20°50	16°44	29° 5	29° 4	25°31	4° 5	S 25
S 26	20 16 29	3°31'06	7 ¹¹ 32	25°53	26°17	24°25	21°23	19°10	5°26	20°49	16°45	29° 2	29° 1	25°37	4°12	S 26
M27	20 20 26	4°28'25	20° 0	25°25	27°30	24° 9	21°37	19°10	5°26	20°48	16°46	28°56	28°58	25°44	4°20	M27
T 28	20 24 23	5°25'46	2 ⁵⁴ 48	25° 2	28°43	23°53	21°50	19°11	5°27	20°47	16°47	28°47	28°54	25°51	4°27	T 28
W29	20 28 19	6°23'07	15°58	24°44	29°56	23°37	22° 3	19°11	5°28	20°46	16°48	28°37	28°51	25°57	4°35	W29
T 30	20 32 16	7°20'29	29°29	24°30	1 ¹¹ 10	23°22	22°17	19°11	5°29	20°45	16°49	28°25	28°48	26° 4	4°43	T 30
F 31	20 36 12	8 ⁵⁴ 17'52	13 ⁵⁴ 18	24 ⁵⁴ 23	2 ¹¹ 23	23 ⁵⁴ 7	22 ⁵⁴ 30	19°R11	5 ¹¹ 30	20 ⁵⁴ 44	16 ¹¹ 50	28 ⁵⁴ 13	28 ⁵⁴ 45	26 ⁵⁴ 10	4 ¹¹ 50	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	23n 4	18n36	4s37	18n32	0s56	22n15	1n18	24s52	5s 0	22n35	0n 6	5n 0	2s24	12s52	0n28	21s43
T 2	23 0	16 57	4 57	18 12	1 11	22 3	1 19	24 59	5 5	22 33	0 6	5 1	2 24	12 52	0 28	21 43
F 3	22 55	14 20	5 2	17 52	1 26	21 49	1 21	25 5	5 9	22 32	0 6	5 2	2 24	12 52	0 28	21 43
S 4	22 50	10 55	4 50	17 33	1 41	21 35	1 22	25 12	5 13	22 30	0 6	5 2	2 25	12 52	0 28	21 43
S 5	22 44	6 53	4 20	17 15	1 56	21 21	1 23	25 18	5 17	22 29	0 6	5 3	2 25	12 52	0 28	21 43
M 6	22 38	2 26	3 35	16 57	2 12	21 6	1 24	25 25	5 21	22 27	0 6	5 4	2 25	12 52	0 28	21 43
T 7	22 32	2s11	2 37	16 41	2 27	20 50	1 25	25 31	5 24	22 26	0 6	5 5	2 25	12 52	0 28	21 43
W 8	22 25	6 42	1 29	16 26	2 42	20 34	1 26	25 38	5 28	22 24	0 6	5 5	2 26	12 52	0 28	21 43
T 9	22 18	10 53	0 15	16 12	2 57	20 17	1 27	25 44	5 32	22 22	0 6	5 6	2 26	12 51	0 28	21 43
F 10	22 12	14 26	1n 0	16 0	3 12	19 59	1 28	25 51	5 35	22 21	0 7	5 6	2 26	12 51	0 28	21 43
S 11	22 3	17 7	2 11	15 49	3 27	19 41	1 29	25 57	5 39	22 19	0 7	5 7	2 27	12 51	0 28	21 43
S 12	21 54	18 46	3 13	15 40	3 41	19 23	1 30	26 4	5 42	22 17	0 7	5 7	2 27	12 51	0 28	21 43
M13	21 46	19 14	4 4	15 32	3 54	19 4	1 31	26 10	5 45	22 15	0 7	5 8	2 27	12 51	0 28	21 42
T 14	21 37	18 32	4 39	15 26	4 6	18 44	1 31	26 16	5 48	22 14	0 7	5 8	2 27	12 51	0 28	21 42
W15	21 27	16 45	4 58	15 21	4 17	18 24	1 32	26 22	5 51	22 12	0 7	5 9	2 28	12 52	0 28	21 42
T 16	21 18	14 6	4 49	15 19	4 28	18 4	1 32	26 28	5 54	22 10	0 7	5 9	2 28	12 52	0 28	21 42
F 17	21 8	10 47	4 45	15 18	4 37	17 42	1 33	26 34	5 56	22 8	0 7	5 9	2 28	12 52	0 28	21 42
S 18	20 57	7 3	4 17	15 18	4 44	17 21	1 33	26 40	5 59	22 6	0 7	5 10	2 28	12 52	0 28	21 42
S 19	20 46	3 6	3 36	15 21	4 50	16 59	1 33	26 46	6 1	22 5	0 7	5 10	2 29	12 52	0 28	21 42
M20	20 35	0n54	2 47	15 25	4 55	16 36	1 34	26 51	6 3	22 3	0 7	5 10	2 29	12 52	0 28	21 42
T 21	20 24	4 48	1 50	15 30	4 58	16 13	1 34	26 56	6 5	22 1	0 8	5 10	2 29	12 52	0 28	21 42
W22	20 12	8 28	0 50	15 37	4 59	15 50	1 34	27 1	6 7	21 59	0 8	5 10	2 30	12 52	0 28	21 42
T 23	20 0	11 48	0s13	15 45	4 58	15 26	1 34	27 6	6 8	21 57	0 8	5 10	2 30	12 53	0 28	21 42
F 24	19 47	14 39	1 15	15 54	4 56	15 2	1 34	27 10	6 10	21 55	0 8	5 10	2 30	12 53	0 28	21 42
S 25	19 34	16 55	2 14	16 5	4 52	14 37	1 34	27 15	6 11	21 53	0 8	5 10	2 30	12 53	0 27	21 42
S 26	19 21	18 27	3 9	16 16	4 46	14 12	1 33	27 19	6 12	21 51	0 8	5 10	2 31	12 53	0 27	21 42
M27	19 8	19 8	3 55	16 28	4 39	13 47	1 33	27 23	6 13	21 49	0 8	5 10	2 31	12 54	0 27	21 42
T 28	18 54	18 52	4 31	16 41	4 30	13 21	1 33	27 26	6 14	21 47	0 8	5 10	2 31	12 54	0 27	21 42
W29	18 40	17 36	4 54	16 54	4 20	12 55	1 32	27 30	6 14	21 45	0 8	5 10	2 31	12 54	0 27	21 42
T 30	18 25	15 20	5 1	17 7	4 9	12 29	1 32	27 33	6 14	21 43	0 8	5 10	2 32	12 54	0 27	21 42
F 31	18n10	12n10	4s51	17n20	3s57	12n 2	1n31	27s35	6s15	21n41	0n 9	5n 9	2s32	12s55	0n27	21s42

Julian Day Number = 2504321.5, Delta T = 117.97 sec
Ecliptic obliquity = 23°25'05, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°45'34, Lahiri = 25°52'34

ASTRODIENST EPHEMERIS for the year 2144

geocentric

AUGUST 2144

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 40 9	9♏15'16	27♏22	24°D21	3♐36	22°R53	22♏43	19°R11	5♐30	20°R43	16♐51	28°R 3	28♏42	26♐17	4♐58	S 1
S 2	20 44 5	10°12'40	11♐36	24♏25	4°49	22♏39	22°56	19♐11	5°31	20♏42	16°52	27♏54	28°39	26°24	5° 6	S 2
M 3	20 48 2	11°10'05	25°55	24°36	6° 2	22°26	23°10	19°11	5°33	20°41	16°53	27°49	28°35	26°30	5°14	M 3
T 4	20 51 58	12° 7'30	10♏14	24°53	7°15	22°14	23°23	19°10	5°34	20°40	16°53	27°46	28°32	26°37	5°22	T 4
W 5	20 55 55	13° 4'56	24°30	25°16	8°28	22° 2	23°36	19°10	5°35	20°39	16°54	27°D45	28°29	26°44	5°29	W 5
T 6	20 59 52	14° 2'23	8♐40	25°46	9°41	21°51	23°49	19° 9	5°36	20°38	16°55	27°R45	28°26	26°50	5°37	T 6
F 7	21 3 48	14°59'50	22°44	26°22	10°54	21°40	24° 2	19° 8	5°37	20°38	16°56	27°45	28°23	26°57	5°45	F 7
S 8	21 7 45	15°57'19	6♏41	27° 4	12° 6	21°30	24°15	19° 8	5°39	20°37	16°57	27°43	28°19	27° 4	5°53	S 8
S 9	21 11 41	16°54'47	20°30	27°53	13°19	21°21	24°28	19° 7	5°40	20°36	16°58	27°39	28°16	27°10	6° 1	S 9
M10	21 15 38	17°52'17	4♏10	28°48	14°32	21°12	24°41	19° 6	5°41	20°35	16°58	27°33	28°13	27°17	6° 9	M10
T 11	21 19 34	18°49'47	17°40	29°49	15°45	21° 5	24°54	19° 5	5°43	20°35	16°59	27°24	28°10	27°24	6°17	T 11
W12	21 23 31	19°47'19	0♏58	0♏56	16°58	20°58	25° 7	19° 4	5°44	20°34	17° 0	27°14	28° 7	27°30	6°25	W12
T 13	21 27 27	20°44'51	14° 3	2° 9	18°11	20°52	25°19	19° 2	5°46	20°33	17° 1	27° 2	28° 4	27°37	6°34	T 13
F 14	21 31 24	21°42'24	26°53	3°27	19°23	20°46	25°32	19° 1	5°47	20°33	17° 1	26°52	28° 0	27°44	6°42	F 14
S 15	21 35 21	22°39'59	9♏28	4°51	20°36	20°42	25°45	18°59	5°49	20°32	17° 2	26°42	27°57	27°50	6°50	S 15
S 16	21 39 17	23°37'34	21°48	6°19	21°49	20°38	25°58	18°58	5°51	20°32	17° 3	26°35	27°54	27°57	6°58	S 16
M17	21 43 14	24°35'11	3♐55	7°52	23° 1	20°35	26°10	18°56	5°53	20°31	17° 3	26°30	27°51	28° 3	7° 6	M17
T 18	21 47 10	25°32'50	15°52	9°30	24°14	20°33	26°23	18°54	5°54	20°31	17° 4	26°27	27°48	28°10	7°14	T 18
W19	21 51 7	26°30'30	27°42	11°12	25°27	20°32	26°35	18°53	5°56	20°30	17° 4	26°D27	27°45	28°17	7°23	W19
T 20	21 55 3	27°28'11	9♏29	12°57	26°39	20°D31	26°48	18°51	5°58	20°30	17° 5	26°27	27°41	28°23	7°31	T 20
F 21	21 59 0	28°25'54	21°19	14°45	27°52	20°32	27° 0	18°49	6° 0	20°30	17° 6	26°28	27°38	28°30	7°39	F 21
S 22	22 2 56	29°23'39	3♐17	16°36	29° 4	20°33	27°13	18°46	6° 2	20°29	17° 6	26°R28	27°35	28°37	7°47	S 22
S 23	22 6 53	0♐21'25	15°29	18°30	0♏17	20°35	27°25	18°44	6° 4	20°29	17° 7	26°27	27°32	28°43	7°56	S 23
M24	22 10 50	1°19'13	27°59	20°25	1°29	20°38	27°37	18°42	6° 6	20°29	17° 7	26°24	27°29	28°50	8° 4	M24
T 25	22 14 46	2°17'03	10♏50	22°22	2°42	20°41	27°50	18°40	6° 8	20°28	17° 8	26°19	27°25	28°57	8°12	T 25
W26	22 18 43	3°14'54	24° 7	24°20	3°54	20°46	28° 2	18°37	6°10	20°28	17° 8	26°11	27°22	29° 3	8°20	W26
T 27	22 22 39	4°12'47	7♏49	26°18	5° 7	20°51	28°14	18°34	6°12	20°28	17° 8	26° 3	27°19	29°10	8°29	T 27
F 28	22 26 36	5°10'41	21°54	28°18	6°19	20°57	28°26	18°32	6°15	20°28	17° 9	25°55	27°16	29°17	8°37	F 28
S 29	22 30 32	6° 8'37	6♐18	0♐17	7°32	21° 4	28°38	18°29	6°17	20°28	17° 9	25°47	27°13	29°23	8°45	S 29
S 30	22 34 29	7° 6'35	20°56	2°16	8°44	21°12	28°50	18°26	6°19	20°28	17°10	25°42	27°10	29°30	8°54	S 30
M31	22 38 25	8♐4'34	5♏39	4♐15	9♏56	21♏20	29♏ 2	18°Y23	6♐22	20♏28	17♐10	25♏38	27♏ 6	29♐36	9♐ 2	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	17n55	8n15	4s23	17n34	3s44	11n35	1n31	27s38	6s15	21n39	0n 9	5n 9	2s32	12s55	0n27	21s42
S 2	17 40	3 50	3 39	17 47	3 30	11 8	1 30	27 40	6 14	21 37	0 9	5 9	2 33	12 55	0 27	21 42
M 3	17 25	0s50	2 40	17 59	3 15	10 40	1 29	27 42	6 14	21 35	0 9	5 9	2 33	12 56	0 27	21 42
T 4	17 9	5 27	1 32	18 11	3 0	10 12	1 28	27 44	6 14	21 33	0 9	5 8	2 33	12 56	0 27	21 42
W 5	16 52	9 45	0 17	18 22	2 44	9 44	1 27	27 45	6 13	21 30	0 9	5 8	2 33	12 57	0 27	21 42
T 6	16 36	13 28	0n58	18 33	2 28	9 16	1 26	27 46	6 12	21 28	0 9	5 7	2 34	12 57	0 27	21 42
F 7	16 19	16 22	2 9	18 42	2 12	8 47	1 25	27 47	6 11	21 26	0 9	5 7	2 34	12 58	0 27	21 42
S 8	16 2	18 16	3 11	18 50	1 56	8 19	1 24	27 48	6 10	21 24	0 9	5 6	2 34	12 58	0 27	21 42
S 9	15 45	19 3	4 2	18 56	1 40	7 49	1 23	27 48	6 9	21 22	0 9	5 6	2 35	12 58	0 27	21 42
M10	15 28	18 43	4 38	19 1	1 24	7 20	1 22	27 48	6 8	21 20	0 10	5 5	2 35	12 59	0 27	21 42
T 11	15 10	17 19	4 58	19 4	1 8	6 51	1 20	27 48	6 6	21 17	0 10	5 4	2 35	12 59	0 27	21 42
W12	14 52	15 0	5 2	19 5	0 52	6 21	1 19	27 47	6 5	21 15	0 10	5 4	2 35	13 0	0 27	21 42
T 13	14 34	11 58	4 50	19 4	0 37	5 51	1 17	27 47	6 3	21 13	0 10	5 3	2 36	13 1	0 27	21 42
F 14	14 15	8 25	4 23	19 0	0 23	5 21	1 16	27 46	6 1	21 11	0 10	5 2	2 36	13 1	0 27	21 42
S 15	13 57	4 34	3 43	18 54	0 8	4 51	1 14	27 44	5 59	21 8	0 10	5 1	2 36	13 2	0 27	21 42
S 16	13 38	0 35	2 54	18 45	0n 5	4 21	1 12	27 43	5 57	21 6	0 10	5 1	2 36	13 2	0 27	21 42
M17	13 19	3n21	1 58	18 34	0 18	3 51	1 10	27 41	5 55	21 4	0 10	5 0	2 37	13 3	0 27	21 42
T 18	13 0	7 6	0 56	18 20	0 30	3 20	1 9	27 40	5 53	21 2	0 10	4 59	2 37	13 3	0 27	21 42
W19	12 40	10 32	0s 7	18 4	0 41	2 50	1 7	27 38	5 51	20 59	0 11	4 58	2 37	13 4	0 27	21 42
T 20	12 20	13 32	1 9	17 44	0 51	2 19	1 5	27 35	5 48	20 57	0 11	4 57	2 37	13 5	0 27	21 42
F 21	12 1	15 59	2 10	17 22	1 1	1 48	1 3	27 33	5 46	20 55	0 11	4 56	2 38	13 5	0 27	21 42
S 22	11 40	17 46	3 5	16 57	1 9	1 18	1 0	27 30	5 43	20 53	0 11	4 55	2 38	13 6	0 27	21 42
S 23	11 20	18 47	3 52	16 30	1 17	0 47	0 58	27 27	5 41	20 50	0 11	4 54	2 38	13 7	0 27	21 42
M24	11 0	18 54	4 30	16 0	1 24	0 16	0 56	27 24	5 38	20 48	0 11	4 53	2 38	13 7	0 27	21 42
T 25	10 39	18 4	4 56	15 27	1 30	0s15	0 54	27 21	5 35	20 46	0 11	4 52	2 39	13 8	0 27	21 42
W26	10 18	16 14	5 7	14 53	1 34	0 46	0 51	27 18	5 33	20 43	0 11	4 50	2 39	13 9	0 26	21 42
T 27	9 57	13 27	5 1	14 17	1 38	1 17	0 49	27 14	5 30	20 41	0 11	4 49	2 39	13 10	0 26	21 42
F 28	9 36	9 50	4 36	13 39	1 42	1 48	0 46	27 10	5 27	20 39	0 12	4 48	2 39	13 10	0 26	21 42
S 29	9 15	5 34	3 54	12 59	1 44	2 19	0 44	27 6	5 24	20 36	0 12	4 47	2 39	13 11	0 26	21 42
S 30	8 54	0 54	2 56	12 18	1 45	2 50	0 41	27 2	5 21	20 34	0 12	4 45	2 40	13 12	0 26	21 42
M31	8n32	3s52	1s46	11n35	1n46	3s20	0n39	26s58	5s18	20n32	0n12	4n44	2s40	13s13	0n26	21s42

Julian Day Number = 2504352.5, Delta T = 118.02 sec
 Ecliptic obliquity = 23°25'06, Nutation = 0°00'10, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°45'38, Lahiri = 25°52'38

ASTRODIENST EPHEMERIS for the year 2144
geocentric

SEPTEMBER 2144

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 42 22	9 ^h 2'34	20 ^h 21	6 ^h 14	11 ^h 9	21 ^h 29	29 ^h 13	18°R20	6 ^h 24	20°D28	17 ^h 10	25°D36	27 ^h 3	29 ^h 43	9 ^h 10	T 1
W 2	22 46 19	10° 0'36	4 ^h 57	8°12	12°21	21°39	29°25	18°Y17	6°26	20°28	17°11	25°36	27° 0	29°50	9°19	W 2
T 3	22 50 15	10°58'39	19°20	10° 9	13°33	21°50	29°37	18°14	6°29	20°28	17°11	25°38	26°57	29°56	9°27	T 3
F 4	22 54 12	11°56'44	3 ^h 30	12° 5	14°45	22° 2	29°48	18°11	6°31	20°28	17°11	25°39	26°54	0 ^h 3	9°36	F 4
S 5	22 58 8	12°54'50	17°25	14° 0	15°58	22°14	29°59	18° 7	6°34	20°28	17°11	25°R39	26°51	0°10	9°44	S 5
S 6	23 2 5	13°52'57	1 ^h 3	15°55	17°10	22°27	0 ^h 11	18° 4	6°37	20°28	17°12	25°37	26°47	0°16	9°52	S 6
M 7	23 6 1	14°51'06	14°29	17°48	18°22	22°41	0°23	18° 0	6°39	20°28	17°12	25°34	26°44	0°23	10° 1	M 7
T 8	23 9 58	15°49'16	27°39	19°40	19°34	22°55	0°34	17°57	6°42	20°28	17°12	25°29	26°41	0°30	10° 9	T 8
W 9	23 13 54	16°47'28	10 ^h 36	21°31	20°46	23°10	0°45	17°53	6°45	20°29	17°12	25°23	26°38	0°36	10°17	W 9
T 10	23 17 51	17°45'41	23°19	23°20	21°58	23°26	0°56	17°49	6°47	20°29	17°12	25°17	26°35	0°43	10°26	T 10
F 11	23 21 47	18°43'55	5 ^h 50	25° 9	23°10	23°42	1° 7	17°46	6°50	20°29	17°13	25°10	26°31	0°50	10°34	F 11
S 12	23 25 44	19°42'12	18° 9	26°56	24°22	23°59	1°18	17°42	6°53	20°29	17°13	25° 5	26°28	0°56	10°42	S 12
S 13	23 29 41	20°40'30	0 ^h 18	28°43	25°34	24°17	1°29	17°38	6°56	20°30	17°13	25° 1	26°25	1° 3	10°50	S 13
M14	23 33 37	21°38'50	12°17	0 ^h 28	26°45	24°35	1°40	17°34	6°59	20°30	17°13	24°58	26°22	1° 9	10°59	M14
T 15	23 37 34	22°37'12	24° 9	2°12	27°57	24°54	1°51	17°30	7° 2	20°31	17°13	24°D58	26°19	1°16	11° 7	T 15
W16	23 41 30	23°35'36	5 ^h 57	3°55	29° 9	25°14	2° 1	17°26	7° 5	20°31	17°R13	24°58	26°16	1°23	11°15	W16
T 17	23 45 27	24°34'02	17°44	5°37	0 ^h 21	25°34	2°12	17°22	7° 8	20°32	17°13	25° 0	26°12	1°29	11°23	T 17
F 18	23 49 23	25°32'30	29°34	7°17	1°32	25°54	2°22	17°18	7°11	20°32	17°13	25° 1	26° 9	1°36	11°32	F 18
S 19	23 53 20	26°31'01	11 ^h 31	8°57	2°44	26°15	2°33	17°13	7°14	20°33	17°13	25° 3	26° 6	1°43	11°40	S 19
S 20	23 57 16	27°29'33	23°42	10°36	3°55	26°37	2°43	17° 9	7°17	20°33	17°13	25°R 4	26° 3	1°49	11°48	S 20
M21	0 1 13	28°28'08	6 ^h 9	12°13	5° 7	26°59	2°53	17° 5	7°20	20°34	17°13	25° 4	26° 0	1°56	11°56	M21
T 22	0 5 10	29°26'45	18°58	13°50	6°19	27°22	3° 3	17° 1	7°23	20°35	17°13	25° 2	25°56	2° 3	12° 4	T 22
W23	0 9 6	0 ^h 25'24	2 ^h 12	15°26	7°30	27°45	3°13	16°56	7°26	20°35	17°12	25° 0	25°53	2° 9	12°13	W23
T 24	0 13 3	1°24'05	15°53	17° 0	8°41	28° 9	3°23	16°52	7°29	20°36	17°12	24°57	25°50	2°16	12°21	T 24
F 25	0 16 59	2°22'48	0 ^h 1	18°34	9°53	28°33	3°33	16°47	7°33	20°37	17°12	24°54	25°47	2°23	12°29	F 25
S 26	0 20 56	3°21'34	14°33	20° 7	11° 4	28°58	3°42	16°43	7°36	20°38	17°12	24°51	25°44	2°29	12°37	S 26
S 27	0 24 52	4°20'21	29°24	21°38	12°15	29°23	3°52	16°38	7°39	20°38	17°12	24°48	25°41	2°36	12°45	S 27
M28	0 28 49	5°19'10	14 ^h 26	23° 9	13°27	29°49	4° 1	16°34	7°42	20°39	17°11	24°47	25°37	2°42	12°53	M28
T 29	0 32 45	6°18'02	29°30	24°39	14°38	0 ^h 15	4°10	16°29	7°46	20°40	17°11	24°D47	25°34	2°49	13° 1	T 29
W30	0 36 42	7 ^h 16'55	14 ^h 27	26 ^h 8	15 ^h 49	0 ^h 41	4 ^h 20	16°Y24	7 ^h 49	20°41	17 ^h 11	24 ^h 48	25 ^h 31	2 ^h 56	13 ^h 9	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n10	8s23	0s28	10n52	1n46	3s51	0n36	26s53	5s15	20n29	0n12	4n43	2s40	13s14	0n26	21s42	1n23	12n32	10s19	9s53	10s25	11n 8	3n35	4s53			
W 2	7 49	12 22	0n50	10 7	1 46	4 22	0 33	26 49	5 12	20 27	0 12	4 41	2 40	13 14	0 26	21 42	1 23	12 32	10 19	9 53	10 24	11 10	3 32	4 53			
T 3	7 27	15 32	2 5	9 22	1 44	4 53	0 30	26 44	5 9	20 25	0 12	4 40	2 40	13 15	0 26	21 42	1 22	12 31	10 19	9 54	10 23	11 11	3 29	4 53			
F 4	7 5	17 43	3 11	8 36	1 42	5 23	0 28	26 39	5 6	20 22	0 12	4 39	2 41	13 16	0 26	21 42	1 22	12 31	10 20	9 54	10 21	11 13	3 26	4 53			
S 5	6 42	18 46	4 4	7 50	1 40	5 54	0 25	26 34	5 3	20 20	0 12	4 37	2 41	13 17	0 26	21 42	1 22	12 31	10 20	9 54	10 20	11 14	3 23	4 53			
S 6	6 20	18 42	4 43	7 3	1 37	6 24	0 22	26 29	5 0	20 18	0 13	4 36	2 41	13 18	0 26	21 42	1 22	12 31	10 20	9 54	10 19	11 16	3 20	4 53			
M 7	5 58	17 35	5 5	6 15	1 34	6 54	0 19	26 23	4 57	20 16	0 13	4 34	2 41	13 19	0 26	21 43	1 22	12 31	10 20	9 53	10 18	11 17	3 17	4 52			
T 8	5 35	15 33	5 10	5 28	1 30	7 24	0 16	26 18	4 54	20 13	0 13	4 33	2 41	13 20	0 26	21 43	1 22	12 31	10 20	9 51	10 17	11 19	3 14	4 52			
W 9	5 13	12 45	5 0	4 41	1 26	7 54	0 13	26 12	4 50	20 11	0 13	4 31	2 42	13 21	0 26	21 43	1 22	12 30	10 20	9 49	10 16	11 20	3 11	4 52			
T 10	4 50	9 25	4 34	3 53	1 21	8 24	0 9	26 6	4 47	20 9	0 13	4 30	2 42	13 22	0 26	21 43	1 22	12 30	10 21	9 46	10 15	11 22	3 8	4 52			
F 11	4 27	5 42	3 56	3 5	1 16	8 54	0 6	26 0	4 44	20 6	0 13	4 28	2 42	13 22	0 26	21 43	1 22	12 30	10 21	9 44	10 13	11 23	3 5	4 52			
S 12	4 4	1 48	3 8	2 18	1 11	9 23	0 3	25 54	4 41	20 4	0 13	4 26	2 42	13 23	0 26	21 43	1 22	12 30	10 21	9 42	10 12	11 25	3 2	4 52			
S 13	3 42	2n 7	2 11	1 31	1 5	9 52	0s 0	25 48	4 38	20 2	0 13	4 25	2 42	13 24	0 26	21 43	1 22	12 30	10 21	9 40	10 11	11 26	2 59	4 52			
M14	3 19	5 55	1 9	0 43	0 59	10 22	0 3	25 41	4 35	20 0	0 14	4 23	2 42	13 25	0 26	21 43	1 22	12 30	10 21	9 40	10 10	11 28	2 56	4 52			
T 15	2 56	9 26	0 4	0s 3	0 53	10 50	0 7	25 35	4 31	19 57	0 14	4 22	2 43	13 26	0 26	21 43	1 22	12 29	10 22	9 39	10 9	11 29	2 53	4 52			
W16	2 33	12 33	1s 0	0 50	0 47	11 19	0 10	25 28	4 28	19 55	0 14	4 20	2 43	13 27	0 26	21 43	1 22	12 29	10 22	9 39	10 8	11 31	2 50	4 52			
T 17	2 9	15 9	2 2	1 36	0 41	11 47	0 13	25 21	4 25	19 53	0 14	4 18	2 43	13 28	0 26	21 43	1 22	12 29	10 22	9 40	10 7	11 32	2 47	4 51			
F 18	1 46	17 8	2 59	2 22	0 34	12 16	0 17	25 14	4 22	19 51	0 14	4 16	2 43	13 29	0 26	21 43	1 22	12 29	10 22	9 41	10 5	11 34	2 44	4 51			
S 19	1 23	18 22	3 49	3 8	0 27	12 43	0 20	25 7	4 19	19 48	0 14	4 15	2 43	13 30	0 26	21 43	1 22	12 29	10 22	9 41	10 4	11 35	2 41	4 51			
S 20	1 0	18 47	4 29	3 53	0 20	13 11	0 23	25 0	4 16	19 46	0 14	4 13	2 43	13 31	0 26	21 44	1 22	12 28	10 22	9 42	10 3	11 37	2 38	4 51			
M21	0 36	18 19	4 58	4 38	0 13	13 38	0 27	24 52	4 13	19 44	0 14	4 11	2 43	13 32	0 26	21 44	1 22	12 28	10 23	9 41	10 2	11 38	2 35	4 51			
T 22	0 13	16 54	5 13	5 22	0 6	14 5	0 30	24 45	4 9	19 42	0 15	4 9	2 43	13 33	0 26	21 44	1 21	12 28	10 23	9 41	10 1	11 40	2 32	4 51			
W23	0s10	14 34	5 13	6 5	0s 1	14 32	0 34	24 37	4 6	19 40	0 15	4 8	2 44	13 34	0 26	21 44	1 21	12 28	10 23	9 40	10 0	11 41	2 29	4 51			
T 24	0 33	11 22	4 54	6 48	0 9	14 58	0 37	24 29	4 3	19 37	0 15	4 6	2 44	13 36	0 26	21 44	1 21	12 28	10 23	9 39	9 58	11 42	2 26	4 51			
F 25	0 57	7 25	4 18	7 31	0 16	15 24	0 41	24 21	4 0	19 35	0 15	4 4	2 44	13 37	0 26	21 44	1 21	12 27	10 23	9 38	9 57	11 44	2 23	4 51			
S 26	1 20	2 56	3 24	8 13	0 23	15 50	0 44	24 13	3 57	19 33	0 15	4 2	2 44	13 38	0 26	21 44	1 21	12 27	10 24	9 37	9 56	11 45	2 20	4 51			
S 27	1 43	1s50	2 16	8 54	0 31	16 15	0 48	24 4	3 54	19 31	0 15	4 0	2 44	13 39	0 26	21 44	1 21	12 27	10 24	9 36	9 55	11 47	2 17	4 51			
M28	2 7	6 34	0 57	9 35	0 38	16 40	0 51	23 56	3 51	19 29	0 15	3 59	2 44	13 40	0 26	21 44	1 21	12 27	10 24	9 35	9 54	11 48	2 14	4 51			
T 29	2 30	10 53	0n26	10 15	0 46	17 5	0 55	23 47	3 48	19 27	0 16	3 57	2 44	13 41	0 26	21 45	1 21	12 27	10 24	9 35	9 53	11 50	2 11	4 51			
W30	2s53	14s27	1n47	10s54	0s53	17s29	0s58	23s39	3s45	19n25	0n16	3n55	2s44	13s42	0n26	21s45	1n21	12n26	10s24	9s36	9s51	11n51	2n 8	4s51			

ASTRODIENST EPHEMERIS for the year 2144
geocentric

OCTOBER 2144

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 40 39	8♂15'50	29♂10	27♂36	17♂ 0	1≈ 8	4♂29	16°R20	7♂52	20♂42	17°R11	24♂49	25♂28	3♂ 2	13♂17	T 1
F 2	0 44 35	9°14'47	13♂35	29° 3	18°11	1°36	4°38	16°Y15	7°56	20°43	17°II10	24°50	25°25	3° 9	13°25	F 2
S 3	0 48 32	10°13'46	27°38	0♂29	19°22	2° 4	4°47	16°10	7°59	20°44	17°10	24°51	25°22	3°16	13°33	S 3
S 4	0 52 28	11°12'46	11♂19	1°54	20°33	2°32	4°55	16° 6	8° 3	20°45	17°10	24°R51	25°18	3°22	13°41	S 4
M 5	0 56 25	12°11'49	24°38	3°18	21°44	3° 0	5° 4	16° 1	8° 6	20°46	17° 9	24°51	25°15	3°29	13°48	M 5
T 6	1 0 21	13°10'52	7≈37	4°41	22°55	3°29	5°12	15°56	8°10	20°47	17° 9	24°50	25°12	3°36	13°56	T 6
W 7	1 4 18	14° 9'58	20°20	6° 3	24° 6	3°59	5°21	15°51	8°13	20°48	17° 8	24°49	25° 9	3°42	14° 4	W 7
T 8	1 8 14	15° 9'05	2♂47	7°23	25°17	4°28	5°29	15°47	8°17	20°49	17° 8	24°47	25° 6	3°49	14°11	T 8
F 9	1 12 11	16° 8'14	15° 2	8°43	26°27	4°59	5°37	15°42	8°20	20°51	17° 7	24°46	25° 2	3°56	14°19	F 9
S 10	1 16 7	17° 7'25	27° 8	10° 1	27°38	5°29	5°45	15°37	8°24	20°52	17° 7	24°45	24°59	4° 2	14°27	S 10
S 11	1 20 4	18° 6'38	9°Y 5	11°18	28°48	6° 0	5°53	15°33	8°27	20°53	17° 6	24°44	24°56	4° 9	14°34	S 11
M12	1 24 1	19° 5'53	20°57	12°34	29°59	6°31	6° 0	15°28	8°31	20°54	17° 6	24°D44	24°53	4°16	14°42	M12
T 13	1 27 57	20° 5'10	2♂46	13°48	1♂ 9	7° 2	6° 8	15°23	8°35	20°56	17° 5	24°44	24°50	4°22	14°49	T 13
W14	1 31 54	21° 4'29	14°34	15° 1	2°19	7°34	6°15	15°18	8°38	20°57	17° 5	24°44	24°47	4°29	14°57	W14
T 15	1 35 50	22° 3'51	26°22	16°12	3°30	8° 5	6°23	15°14	8°42	20°58	17° 4	24°45	24°43	4°35	15° 4	T 15
F 16	1 39 47	23° 3'14	8°II15	17°21	4°40	8°38	6°30	15° 9	8°46	21° 0	17° 4	24°45	24°40	4°42	15°11	F 16
S 17	1 43 43	24° 2'40	20°15	18°28	5°50	9°10	6°37	15° 4	8°49	21° 1	17° 3	24°45	24°37	4°49	15°19	S 17
S 18	1 47 40	25° 2'08	2♂26	19°33	7° 0	9°43	6°44	15° 0	8°53	21° 3	17° 2	24°R45	24°34	4°55	15°26	S 18
M19	1 51 36	26° 1'38	14°52	20°36	8°10	10°16	6°50	14°55	8°57	21° 4	17° 2	24°45	24°31	5° 2	15°33	M19
T 20	1 55 33	27° 1'11	27°37	21°36	9°20	10°49	6°57	14°51	9° 0	21° 5	17° 1	24°D45	24°27	5° 9	15°40	T 20
W21	1 59 30	28° 0'46	10♂44	22°33	10°30	11°23	7° 3	14°46	9° 4	21° 7	17° 0	24°45	24°24	5°15	15°47	W21
T 22	2 3 26	29° 0'23	24°16	23°28	11°39	11°57	7° 9	14°42	9° 8	21° 9	17° 0	24°45	24°21	5°22	15°55	T 22
F 23	2 7 23	0♂ 0'02	8♂15	24°19	12°49	12°31	7°16	14°37	9°11	21°10	16°59	24°46	24°18	5°29	16° 1	F 23
S 24	2 11 19	0°59'44	22°40	25° 6	13°58	13° 5	7°22	14°33	9°15	21°12	16°58	24°46	24°15	5°35	16° 8	S 24
S 25	2 15 16	1°59'27	7♂28	25°49	15° 8	13°39	7°27	14°28	9°19	21°13	16°57	24°47	24°12	5°42	16°15	S 25
M26	2 19 12	2°59'13	22°32	26°27	16°17	14°14	7°33	14°24	9°23	21°15	16°57	24°R47	24° 8	5°49	16°22	M26
T 27	2 23 9	3°59'01	7♂45	27° 1	17°27	14°49	7°38	14°20	9°26	21°17	16°56	24°47	24° 5	5°55	16°29	T 27
W28	2 27 5	4°58'51	22°57	27°28	18°36	15°24	7°44	14°15	9°30	21°18	16°55	24°46	24° 2	6° 2	16°36	W28
T 29	2 31 2	5°58'43	7♂27	27°50	19°45	16° 0	7°49	14°11	9°34	21°20	16°54	24°45	23°59	6° 9	16°42	T 29
F 30	2 34 59	6°58'37	22°39	28° 5	20°54	16°35	7°54	14° 7	9°38	21°22	16°53	24°44	23°56	6°15	16°49	F 30
S 31	2 38 55	7♂58'32	6♂56	28°R13	22♂ 3	17≈11	7♂58	14°Y 3	9♂41	21♂23	16°II53	24♂42	23♂53	6♂22	16♂55	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	3s16	17s 2	2n59	11s33	1s 0	17s53	1s 2	23s30	3s42	19n23	0n16	3n53	2s44	13s43	0n26	21s45	1n21
F 2	3 40	18 28	3 59	12 11	1 8	18 16	1 5	23 21	3 39	19 21	0 16	3 51	2 44	13 44	0 26	21 45	1 21
S 3	4 3	18 42	4 42	12 48	1 15	18 39	1 9	23 11	3 36	19 19	0 16	3 50	2 44	13 45	0 26	21 45	1 21
S 4	4 26	17 49	5 8	13 25	1 22	19 2	1 12	23 2	3 33	19 17	0 16	3 48	2 44	13 46	0 26	21 45	1 21
M 5	4 49	15 58	5 17	14 0	1 29	19 24	1 16	22 52	3 30	19 15	0 16	3 46	2 44	13 48	0 26	21 45	1 21
T 6	5 12	13 22	5 9	14 35	1 37	19 46	1 19	22 43	3 27	19 13	0 17	3 44	2 44	13 49	0 26	21 45	1 21
W 7	5 35	10 10	4 46	15 9	1 43	20 7	1 22	22 33	3 24	19 11	0 17	3 42	2 44	13 50	0 26	21 45	1 21
T 8	5 58	6 35	4 10	15 42	1 50	20 27	1 26	22 23	3 21	19 9	0 17	3 40	2 44	13 51	0 25	21 46	1 21
F 9	6 21	2 46	3 23	16 14	1 57	20 47	1 29	22 13	3 18	19 8	0 17	3 39	2 44	13 52	0 25	21 46	1 21
S 10	6 43	1n 7	2 28	16 46	2 4	21 7	1 33	22 2	3 16	19 6	0 17	3 37	2 45	13 53	0 25	21 46	1 21
S 11	7 6	4 55	1 26	17 16	2 10	21 26	1 36	21 52	3 13	19 4	0 17	3 35	2 45	13 55	0 25	21 46	1 21
M12	7 28	8 30	0 21	17 45	2 16	21 45	1 39	21 42	3 10	19 2	0 17	3 33	2 44	13 56	0 25	21 46	1 21
T 13	7 51	11 43	0s45	18 13	2 22	22 3	1 43	21 31	3 7	19 0	0 18	3 31	2 44	13 57	0 25	21 46	1 20
W14	8 13	14 28	1 48	18 41	2 28	22 20	1 46	21 20	3 4	18 59	0 18	3 30	2 44	13 58	0 25	21 46	1 20
T 15	8 35	16 37	2 47	19 7	2 33	22 37	1 49	21 9	3 2	18 57	0 18	3 28	2 44	13 59	0 25	21 46	1 20
F 16	8 57	18 3	3 39	19 31	2 38	22 53	1 52	20 58	2 59	18 55	0 18	3 26	2 44	14 0	0 25	21 47	1 20
S 17	9 19	18 42	4 22	19 55	2 43	23 9	1 55	20 47	2 56	18 54	0 18	3 24	2 44	14 2	0 25	21 47	1 20
S 18	9 41	18 29	4 54	20 17	2 47	23 24	1 58	20 35	2 53	18 52	0 18	3 23	2 44	14 3	0 25	21 47	1 20
M19	10 3	17 24	5 13	20 38	2 52	23 39	2 1	20 24	2 51	18 51	0 19	3 21	2 44	14 4	0 25	21 47	1 20
T 20	10 24	15 26	5 18	20 58	2 55	23 53	2 4	20 12	2 48	18 49	0 19	3 19	2 44	14 5	0 25	21 47	1 20
W21	10 46	12 37	5 6	21 16	2 58	24 6	2 7	20 0	2 45	18 48	0 19	3 17	2 44	14 6	0 25	21 47	1 20
T 22	11 7	9 4	4 37	21 32	3 1	24 19	2 10	19 48	2 43	18 46	0 19	3 16	2 44	14 8	0 25	21 47	1 20
F 23	11 28	4 54	3 51	21 47	3 3	24 31	2 13	19 36	2 40	18 45	0 19	3 14	2 44	14 9	0 25	21 48	1 20
S 24	11 49	0 19	2 49	22 0	3 4	24 42	2 16	19 24	2 38	18 44	0 19	3 12	2 44	14 10	0 25	21 48	1 20
S 25	12 9	4s25	1 35	22 11	3 5	24 53	2 18	19 11	2 35	18 42	0 20	3 11	2 44	14 11	0 25	21 48	1 20
M26	12 30	8 57	0 12	22 21	3 5	25 3	2 21	18 59	2 32	18 41	0 20	3 9	2 44	14 12	0 25	21 48	1 20
T 27	12 50	12 57	1n11	22 27	3 4	25 13	2 24	18 46	2 30	18 40	0 20	3 8	2 44	14 13	0 25	21 48	1 20
W28	13 10	16 4	2 30	22 32	3 2	25 21	2 26	18 33	2 27	18 39	0 20	3 6	2 44	14 15	0 25	21 48	1 20
T 29	13 30	18 2	3 38	22 34	2 59	25 29	2 29	18 20	2 25	18 38	0 20	3 5	2 43	14 16	0 25	21 48	1 20
F 30	13 50	18 44	4 29	22 34	2 55	25 37	2 31	18 7	2 22	18 36	0 20	3 3	2 43	14 17	0 25	21 49	1 20
S 31	14s 9	18s12	5n 2	22s30	2s50	25s44	2s33	17s54	2s20	18n35	0n21	3n 2	2s43	14s18	0n25	21s49	1n20

Julian Day Number = 2504413.5, Delta T = 118.13 sec
Ecliptic obliquity = 23°25'06, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°45'46, Lahiri = 25°52'47

ASTRODIENST EPHEMERIS for the year 2144
geocentric

NOVEMBER 2144

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	2 42 52	8♌58'29	20♊47	28°R12	23♋12	17♌47	8♎ 3	13°R59	9♏45	21♐25	16°R52	24°R41	23♑49	6♈28	17♉ 2	S 1
M 2	2 46 48	9°58'28	4♌10	28♌ 3	24°20	18°23	8° 8	13°Y55	9°49	21°27	16♌51	24°D40	23°46	6°35	17° 8	M 2
T 3	2 50 45	10°58'28	17° 8	27°45	25°29	19° 0	8°12	13°51	9°53	21°29	16°50	24♌40	23°43	6°42	17°14	T 3
W 4	2 54 41	11°58'29	29°45	27°18	26°37	19°36	8°16	13°47	9°56	21°31	16°49	24°41	23°40	6°48	17°20	W 4
T 5	2 58 38	12°58'32	12♋ 4	26°41	27°45	20°13	8°20	13°43	10° 0	21°32	16°48	24°42	23°37	6°55	17°27	T 5
F 6	3 2 34	13°58'37	24°10	25°54	28°54	20°50	8°23	13°39	10° 4	21°34	16°47	24°44	23°33	7° 2	17°33	F 6
S 7	3 6 31	14°58'44	6♋ 6	24°59	0♊ 2	21°27	8°27	13°36	10° 8	21°36	16°46	24°45	23°30	7° 8	17°39	S 7
S 8	3 10 28	15°58'52	17°57	23°55	1° 9	22° 4	8°30	13°32	10°11	21°38	16°45	24°46	23°27	7°15	17°45	S 8
M 9	3 14 24	16°59'02	29°44	22°44	2°17	22°42	8°34	13°28	10°15	21°40	16°44	24°R46	23°24	7°22	17°50	M 9
T 10	3 18 21	17°59'13	11♋32	21°29	3°25	23°19	8°37	13°25	10°19	21°42	16°43	24°45	23°21	7°28	17°56	T 10
W11	3 22 17	18°59'26	23°22	20°10	4°32	23°57	8°39	13°22	10°23	21°44	16°42	24°43	23°18	7°35	18° 2	W11
T 12	3 26 14	19°59'41	5♌17	18°50	5°39	24°35	8°42	13°18	10°26	21°46	16°41	24°39	23°14	7°42	18° 7	T 12
F 13	3 30 10	20°59'58	17°17	17°32	6°46	25°13	8°44	13°15	10°30	21°48	16°40	24°35	23°11	7°48	18°13	F 13
S 14	3 34 7	22° 0'17	29°26	16°19	7°53	25°51	8°47	13°12	10°34	21°50	16°39	24°30	23° 8	7°55	18°18	S 14
S 15	3 38 3	23° 0'37	11♌44	15°13	9° 0	26°29	8°49	13° 9	10°38	21°52	16°38	24°25	23° 5	8° 2	18°24	S 15
M16	3 42 0	24° 1'00	24°15	14°15	10° 7	27° 7	8°51	13° 6	10°41	21°54	16°37	24°21	23° 2	8° 8	18°29	M16
T 17	3 45 57	25° 1'24	7♎ 1	13°28	11°13	27°46	8°52	13° 3	10°45	21°56	16°36	24°19	22°59	8°15	18°34	T 17
W18	3 49 53	26° 1'50	20° 4	12°51	12°19	28°24	8°54	13° 0	10°49	21°58	16°35	24°17	22°55	8°21	18°39	W18
T 19	3 53 50	27° 2'18	3♎27	12°27	13°25	29° 3	8°55	12°57	10°52	22° 0	16°34	24°D17	22°52	8°28	18°44	T 19
F 20	3 57 46	28° 2'48	17°13	12°14	14°31	29°42	8°56	12°55	10°56	22° 2	16°33	24°18	22°49	8°35	18°49	F 20
S 21	4 1 43	29° 3'20	1♌22	12°D12	15°36	0♋21	8°57	12°52	11° 0	22° 4	16°32	24°20	22°46	8°41	18°54	S 21
S 22	4 5 39	0♋ 3'53	15°53	12°21	16°42	1° 0	8°58	12°50	11° 3	22° 7	16°31	24°21	22°43	8°48	18°59	S 22
M23	4 9 36	1° 4'28	0♌43	12°41	17°47	1°39	8°58	12°47	11° 7	22° 9	16°30	24°R21	22°39	8°55	19° 4	M23
T 24	4 13 32	2° 5'05	15°47	13° 9	18°52	2°18	8°59	12°45	11°10	22°11	16°29	24°19	22°36	9° 1	19° 8	T 24
W25	4 17 29	3° 5'44	0♋56	13°46	19°56	2°57	8°R59	12°43	11°14	22°13	16°28	24°16	22°33	9° 8	19°13	W25
T 26	4 21 26	4° 6'24	16° 0	14°30	21° 1	3°37	8°59	12°41	11°17	22°15	16°26	24°11	22°30	9°15	19°17	T 26
F 27	4 25 22	5° 7'05	0♊50	15°21	22° 5	4°16	8°58	12°39	11°21	22°17	16°25	24° 4	22°27	9°21	19°21	F 27
S 28	4 29 19	6° 7'48	15°18	16°18	23° 9	4°56	8°58	12°37	11°25	22°20	16°24	23°57	22°24	9°28	19°25	S 28
S 29	4 33 15	7° 8'31	29°19	17°20	24°12	5°35	8°57	12°35	11°28	22°22	16°23	23°51	22°20	9°35	19°29	S 29
M30	4 37 12	8♋ 9'16	12♌50	18♌26	25♊16	6♋15	8♎56	12°Y34	11♌32	22♋24	16♌22	23♑46	22♑17	9♈41	19♉33	M30

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl
S 1	14s29	16s36	5n16	22s24	2s43	25s50	2s35	17s40	2s18	18n34	0n21	3n 0	2s43	14s19	0n25	21s49	1n20	12n20	10s29	9s33	9s14	12n36	0n35	4s55										
M 2	14 48	14 8	5 13	22 14	2 35	25 55	2 37	17 27	2 15	18 33	0 21	2 59	2 43	14 21	0 25	21 49	1 20	12 20	10 29	9 33	9 13	12 37	0 32	4 55										
T 3	15 6	11 1	4 53	22 0	2 25	26 0	2 39	17 13	2 13	18 32	0 21	2 57	2 43	14 22	0 25	21 49	1 20	12 20	10 29	9 33	9 12	12 39	0 30	4 56										
W 4	15 25	7 29	4 20	21 43	2 14	26 4	2 41	16 59	2 10	18 32	0 21	2 56	2 43	14 23	0 25	21 49	1 20	12 20	10 29	9 33	9 11	12 40	0 27	4 56										
T 5	15 43	3 43	3 35	21 21	2 1	26 7	2 43	16 45	2 8	18 31	0 21	2 55	2 43	14 24	0 25	21 50	1 20	12 20	10 29	9 34	9 10	12 41	0 25	4 56										
F 6	16 1	0n 9	2 41	20 56	1 46	26 10	2 45	16 31	2 6	18 30	0 22	2 53	2 42	14 25	0 25	21 50	1 19	12 19	10 29	9 34	9 8	12 43	0 22	4 56										
S 7	16 19	3 58	1 41	20 27	1 30	26 12	2 47	16 17	2 3	18 29	0 22	2 52	2 42	14 27	0 25	21 50	1 19	12 19	10 29	9 35	9 7	12 44	0 19	4 57										
S 8	16 36	7 37	0 38	19 54	1 12	26 13	2 48	16 3	2 1	18 28	0 22	2 51	2 42	14 28	0 25	21 50	1 19	12 19	10 29	9 35	9 6	12 45	0 17	4 57										
M 9	16 54	10 57	0s27	19 18	0 53	26 13	2 50	15 49	1 59	18 28	0 22	2 50	2 42	14 29	0 25	21 50	1 19	12 19	10 30	9 35	9 5	12 47	0 14	4 57										
T 10	17 11	13 50	1 31	18 39	0 33	26 13	2 51	15 34	1 57	18 27	0 22	2 48	2 42	14 30	0 25	21 50	1 19	12 19	10 30	9 35	9 4	12 48	0 12	4 57										
W11	17 27	16 10	2 31	17 58	0 12	26 12	2 52	15 19	1 54	18 27	0 23	2 47	2 42	14 31	0 25	21 50	1 19	12 19	10 30	9 34	9 3	12 49	0 10	4 58										
T 12	17 43	17 48	3 25	17 16	0n 8	26 11	2 53	15 5	1 52	18 26	0 23	2 46	2 41	14 32	0 25	21 51	1 19	12 18	10 30	9 33	9 1	12 51	0 7	4 58										
F 13	17 59	18 40	4 10	16 35	0 29	26 9	2 54	14 50	1 50	18 26	0 23	2 45	2 41	14 34	0 25	21 51	1 19	12 18	10 30	9 31	9 0	12 52	0 5	4 58										
S 14	18 15	18 41	4 44	15 56	0 48	26 6	2 55	14 35	1 48	18 25	0 23	2 44	2 41	14 35	0 25	21 51	1 19	12 18	10 30	9 29	8 59	12 53	0 2	4 58										
S 15	18 31	17 49	5 6	15 20	1 6	26 2	2 56	14 20	1 46	18 25	0 23	2 43	2 41	14 36	0 25	21 51	1 19	12 18	10 30	9 28	8 58	12 55	0s 0	4 59										
M16	18 46	16 6	5 13	14 47	1 23	25 58	2 57	14 5	1 43	18 25	0 23	2 42	2 41	14 37	0 25	21 51	1 19	12 18	10 30	9 26	8 57	12 56	0 2	4 59										
T 17	19 0	13 34	5 6	14 19	1 38	25 53	2 57	13 50	1 41	18 24	0 24	2 41	2 41	14 38	0 25	21 51	1 19	12 18	10 30	9 25	8 55	12 57	0 5	4 59										
W18	19 15	10 19	4 42	13 55	1 51	25 48	2 58	13 34	1 39	18 24	0 24	2 40	2 40	14 39	0 25	21 52	1 19	12 17	10 30	9 24	8 54	12 59	0 7	5 0										
T 19	19 29	6 27	4 3	13 38	2 1	25 41	2 58	13 19	1 37	18 24	0 24	2 39	2 40	14 41	0 25	21 52	1 19	12 17	10 30	9 24	8 53	13 0	0 9	5 0										
F 20	19 42	2 8	3 9	13 25	2 10	25 35	2 58	13 3	1 35	18 24	0 24	2 38	2 40	14 42	0 25	21 52	1 19	12 17	10 30	9 25	8 52	13 1	0 11	5 0										
S 21	19 56	2s25	2 2	13 18	2 17	25 27	2 58	12 48	1 33	18 24	0 24	2 38	2 40	14 43	0 25	21 52	1 19	12 17	10 30	9 25	8 51	13 3	0 13	5 1										
S 22	20 9	6 57	0 46	13 16	2 22	25 19	2 58	12 32	1 31	18 24	0 25	2 37	2 39	14 44	0 25	21 52	1 19	12 17	10 30	9 26	8 50	13 4	0 16	5 1										
M23	20 21	11 10	0n35	13 19	2 26	25 10	2 57	12 16	1 29	18 24	0 25	2 36	2 39	14 45	0 25	21 52	1 19	12 17	10 30	9 26	8 48	13 5	0 18	5 1										
T 24	20 34	14 44	1 54	13 25	2 28	25 1	2 57	12 0	1 27	18 24	0 25	2 35	2 39	14 46	0 25	21 52	1 19	12 17	10 30	9 25	8 47	13 7	0 20	5 2										
W25	20 45	17 18	3 6	13 36	2 28	24 51	2 56	11 44	1 25	18 24	0 25	2 35	2 39	14 47	0 25	21 53	1 19	12 17	10 30	9 24	8 46	13 8	0 22	5 2										
T 26	20 57	18 38	4 4	13 49	2 28	24 40	2 56	11 28	1 23	18 24	0 25	2 34	2 39	14 48	0 25	21 53	1 19	12 16	10 30	9 22	8 45	13 9	0 24	5 2										
F 27	21 8	18 40	4 45	14 6	2 26	24 29	2 55	11 12	1 21	18 25	0 26	2 34	2 38	14 49	0 25	21 53	1 19	12 16	10 30	9 20	8 44	13 10	0 26	5 3										
S 28	21 19	17 28	5 6	14 25	2 23	24 17	2 54	10 55	1 19	18 25	0 26	2 33	2 38	14 51	0 25	21 53	1 19	12 16	10 30	9 17	8 43	13 12	0 28	5 3										
S 29	21 29	15 15	5 8	14 45	2 20	24 5	2 53	10 39	1 17	18 25	0 26	2 33	2 38	14 52	0 25	21 53	1 19	12 16	10 30	9 15	8 41	13 13	0 30	5 3										
M30	21s39	12s15	4n53	15s 7	2n16	23s52	2s51	10s23	1s15	18n26	0n26	2n32	2s38	14s53	0n25	21s53	1n19	12n16	10s30	9s13	8s40	13n14	0s32	5s 4										

ASTRODIENST EPHEMERIS for the year 2144
geocentric

DECEMBER 2144

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 41 8	9♌10'02	25♏54	19♍36	26♋19	6♊55	8°R55	12°R32	11♍35	22♌26	16°R21	23°R44	22♏14	9♊48	19♍37	T 1
W 2	4 45 5	10°10'48	8♋33	20°49	27°21	7°35	8♏54	12°Y31	11°38	22°28	16♊20	23°D43	22°11	9°55	19°41	W 2
T 3	4 49 1	11°11'36	20°51	22° 5	28°24	8°15	8°52	12°29	11°42	22°31	16°18	23♏43	22° 8	10° 1	19°45	T 3
F 4	4 52 58	12°12'24	2°Y54	23°23	29°26	8°55	8°51	12°28	11°45	22°33	16°17	23°44	22° 5	10° 8	19°48	F 4
S 5	4 56 55	13°13'14	14°47	24°44	0♏27	9°35	8°49	12°27	11°49	22°35	16°16	23°46	22° 1	10°15	19°52	S 5
S 6	5 0 51	14°14'04	26°34	26° 6	1°29	10°16	8°47	12°26	11°52	22°37	16°15	23°R46	21°58	10°21	19°55	S 6
M 7	5 4 48	15°14'55	8♊21	27°29	2°29	10°56	8°45	12°25	11°55	22°40	16°14	23°45	21°55	10°28	19°58	M 7
T 8	5 8 44	16°15'47	20°10	28°54	3°30	11°36	8°42	12°24	11°59	22°42	16°13	23°41	21°52	10°35	20° 2	T 8
W 9	5 12 41	17°16'40	2♊ 6	0♌20	4°30	12°17	8°39	12°24	12° 2	22°44	16°12	23°35	21°49	10°41	20° 5	W 9
T 10	5 16 37	18°17'34	14° 9	1°47	5°30	12°57	8°37	12°23	12° 5	22°46	16°10	23°26	21°45	10°48	20° 7	T 10
F 11	5 20 34	19°18'29	26°22	3°15	6°29	13°38	8°34	12°22	12° 8	22°49	16° 9	23°16	21°42	10°54	20°10	F 11
S 12	5 24 30	20°19'25	8♊45	4°44	7°27	14°18	8°30	12°22	12°11	22°51	16° 8	23° 5	21°39	11° 1	20°13	S 12
S 13	5 28 27	21°20'22	21°18	6°13	8°26	14°59	8°27	12°22	12°15	22°53	16° 7	22°54	21°36	11° 8	20°16	S 13
M14	5 32 24	22°21'20	4♏ 3	7°42	9°23	15°39	8°23	12°22	12°18	22°55	16° 6	22°44	21°33	11°14	20°18	M14
T 15	5 36 20	23°22'19	17° 0	9°12	10°20	16°20	8°20	12°D22	12°21	22°58	16° 5	22°36	21°30	11°21	20°20	T 15
W16	5 40 17	24°23'19	0♍ 9	10°42	11°17	17° 1	8°16	12°22	12°24	23° 0	16° 4	22°31	21°26	11°28	20°23	W16
T 17	5 44 13	25°24'20	13°33	12°13	12°13	17°42	8°12	12°22	12°27	23° 2	16° 2	22°28	21°23	11°34	20°25	T 17
F 18	5 48 10	26°25'22	27°11	13°44	13° 9	18°22	8° 7	12°22	12°30	23° 4	16° 1	22°D27	21°20	11°41	20°27	F 18
S 19	5 52 6	27°26'25	11♏ 6	15°15	14° 4	19° 3	8° 3	12°22	12°33	23° 7	16° 0	22°28	21°17	11°48	20°29	S 19
S 20	5 56 3	28°27'29	25°19	16°47	14°58	19°44	7°58	12°23	12°36	23° 9	15°59	22°R28	21°14	11°54	20°31	S 20
M21	5 59 59	29°28'34	9♍47	18°19	15°52	20°25	7°53	12°24	12°39	23°11	15°58	22°27	21°11	12° 1	20°32	M21
T 22	6 3 56	0♋29'40	24°28	19°51	16°45	21° 6	7°48	12°24	12°41	23°14	15°57	22°23	21° 7	12° 8	20°34	T 22
W23	6 7 53	1°30'46	9♌17	21°23	17°37	21°47	7°43	12°25	12°44	23°16	15°56	22°17	21° 4	12°14	20°35	W23
T 24	6 11 49	2°31'53	24° 6	22°55	18°28	22°28	7°38	12°26	12°47	23°18	15°55	22° 8	21° 1	12°21	20°37	T 24
F 25	6 15 46	3°33'01	8♋47	24°28	19°19	23° 9	7°32	12°27	12°50	23°20	15°54	21°57	20°58	12°28	20°38	F 25
S 26	6 19 42	4°34'09	23°11	26° 1	20° 9	23°50	7°27	12°28	12°52	23°22	15°52	21°45	20°55	12°34	20°39	S 26
S 27	6 23 39	5°35'18	7♏13	27°34	20°59	24°32	7°21	12°30	12°55	23°25	15°51	21°34	20°51	12°41	20°40	S 27
M28	6 27 35	6°36'26	20°48	29° 7	21°47	25°13	7°15	12°31	12°58	23°27	15°50	21°24	20°48	12°48	20°41	M28
T 29	6 31 32	7°37'35	3♊56	0♋41	22°34	25°54	7° 9	12°32	13° 0	23°29	15°49	21°17	20°45	12°54	20°42	T 29
W30	6 35 28	8°38'44	16°39	2°15	23°21	26°35	7° 2	12°34	13° 3	23°31	15°48	21°13	20°42	13° 1	20°42	W30
T 31	6 39 25	9♋39'52	29♊ 1	3♋49	24♏ 6	27♊17	6♏56	12°Y36	13♍ 5	23♌34	15♊47	21♏11	20♏39	13♊ 8	20♍43	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	21 s48	8 s45	4n23	15s31	2n11	23 s39	2s50	10s 6	1s13	18n26	0n26	2n32	2s37	14s54	0n25	21 s53
W 2	21 57	4 57	3 40	15 55	2 6	23 25	2 48	9 50	1 12	18 27	0 27	2 32	2 37	14 55	0 25	21 54
T 3	22 6	1 2	2 49	16 20	2 0	23 11	2 46	9 33	1 10	18 27	0 27	2 31	2 37	14 56	0 25	21 54
F 4	22 14	2n51	1 50	16 46	1 54	22 56	2 44	9 16	1 8	18 28	0 27	2 31	2 37	14 57	0 25	21 54
S 5	22 22	6 34	0 48	17 12	1 47	22 41	2 42	8 59	1 6	18 29	0 27	2 31	2 36	14 58	0 25	21 54
S 6	22 29	10 0	0s15	17 38	1 41	22 25	2 40	8 43	1 4	18 29	0 27	2 31	2 36	14 59	0 25	21 54
M 7	22 36	13 3	1 18	18 4	1 34	22 8	2 37	8 26	1 3	18 30	0 28	2 30	2 36	15 0	0 25	21 54
T 8	22 43	15 34	2 17	18 29	1 27	21 52	2 35	8 9	1 1	18 31	0 28	2 30	2 36	15 1	0 25	21 54
W 9	22 49	17 26	3 11	18 55	1 19	21 35	2 32	7 52	0 59	18 32	0 28	2 30	2 35	15 2	0 25	21 54
T 10	22 54	18 34	3 57	19 19	1 12	21 17	2 29	7 35	0 57	18 33	0 28	2 30	2 35	15 3	0 25	21 55
F 11	22 59	18 50	4 32	19 44	1 5	20 59	2 25	7 17	0 56	18 34	0 28	2 30	2 35	15 4	0 25	21 55
S 12	23 4	18 13	4 55	20 7	0 57	20 41	2 22	7 0	0 54	18 35	0 29	2 31	2 35	15 5	0 25	21 55
S 13	23 8	16 43	5 4	20 30	0 50	20 22	2 18	6 43	0 52	18 36	0 29	2 31	2 34	15 6	0 25	21 55
M14	23 12	14 23	4 59	20 53	0 42	20 3	2 14	6 26	0 51	18 37	0 29	2 31	2 34	15 7	0 25	21 55
T 15	23 15	11 19	4 38	21 14	0 35	19 43	2 10	6 9	0 49	18 38	0 29	2 31	2 34	15 8	0 25	21 55
W16	23 18	7 38	4 2	21 35	0 28	19 24	2 6	5 51	0 48	18 39	0 29	2 31	2 34	15 9	0 25	21 55
T 17	23 20	3 30	3 12	21 54	0 20	19 4	2 2	5 34	0 46	18 41	0 29	2 32	2 33	15 10	0 25	21 56
F 18	23 22	0s53	2 11	22 13	0 13	18 43	1 57	5 16	0 44	18 42	0 30	2 32	2 33	15 10	0 25	21 56
S 19	23 24	5 19	1 0	22 31	0 6	18 23	1 52	4 59	0 43	18 43	0 30	2 32	2 33	15 11	0 25	21 56
S 20	23 25	9 33	0n15	22 47	0s 1	18 2	1 47	4 42	0 41	18 45	0 30	2 33	2 33	15 12	0 25	21 56
M21	23 25	13 18	1 31	23 3	0 8	17 41	1 41	4 24	0 40	18 46	0 30	2 33	2 32	15 13	0 25	21 56
T 22	23 25	16 16	2 42	23 17	0 15	17 20	1 36	4 7	0 38	18 48	0 30	2 34	2 32	15 14	0 25	21 56
W23	23 25	18 10	3 42	23 30	0 22	16 58	1 30	3 49	0 37	18 49	0 31	2 34	2 32	15 15	0 25	21 56
T 24	23 24	18 50	4 27	23 43	0 29	16 36	1 24	3 31	0 35	18 51	0 31	2 35	2 32	15 16	0 25	21 56
F 25	23 22	18 14	4 54	23 54	0 35	16 15	1 18	3 14	0 34	18 52	0 31	2 36	2 31	15 16	0 25	21 56
S 26	23 20	16 28	5 2	24 3	0 42	15 53	1 11	2 56	0 32	18 54	0 31	2 36	2 31	15 17	0 25	21 57
S 27	23 18	13 45	4 51	24 12	0 48	15 30	1 4	2 39	0 31	18 55	0 31	2 37	2 31	15 18	0 25	21 57
M28	23 15	10 23	4 24	24 19	0 54	15 8	0 57	2 21	0 29	18 57	0 32	2 38	2 30	15 19	0 25	21 57
T 29	23 12	6 35	3 43	24 25	1 0	14 46	0 50	2 3	0 28	18 59	0 32	2 39	2 30	15 20	0 25	21 57
W30	23 8	2 37	2 52	24 30	1 6	14 24	0 43	1 46	0 27	19 1	0 32	2 39	2 30	15 20	0 25	21 57
T 31	23 s 4	1n22	1n55	24s33	1s11	14s 1	0s35	1s28	0s25	19n 2	0n32	2n40	2s30	15s21	0n25	21s57

Julian Day Number = 2504474.5, Delta T = 118.24 sec
Ecliptic obliquity = 23°25'05, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°45'55, Lahiri = 25°52'55