



# Astrodienst Ephemeris Tables for the year 2196

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 2196  
geocentric

JANUARY 2196

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 41 59	10 <sup>3</sup> 18'11	16 <sup>3</sup> 22	18 <sup>7</sup> 59	24 <sup>3</sup> 39	27 <sup>8</sup> 6	20 <sup>1</sup> 33	16 <sup>3</sup> 50	9 <sup>9</sup> R 4	13 <sup>9</sup> 20	18 <sup>9</sup> R 3	23 <sup>9</sup> R31	24 <sup>3</sup> 14	18 <sup>3</sup> 20	21 <sup>3</sup> 27	F 1
S 2	6 45 56	11°19'21	28°21	20°14	25°48	27° 7	20°44	16°57	9 <sup>11</sup> 2	13°20	18 <sup>9</sup> 2	23°D31	24°11	18°27	21°31	S 2
S 3	6 49 52	12°20'30	10 <sup>3</sup> 13	21°31	26°58	27° 9	20°54	17° 4	9° 0	13°20	18° 1	23 <sup>3</sup> 32	24° 7	18°33	21°35	S 3
M 4	6 53 49	13°21'40	22° 2	22°49	28° 7	27°11	21° 5	17°11	8°58	13°21	18° 0	23°33	24° 4	18°40	21°39	M 4
T 5	6 57 45	14°22'50	3 <sup>3</sup> 49	24° 8	29°15	27°15	21°15	17°18	8°56	13°21	17°59	23°34	24° 1	18°47	21°42	T 5
W 6	7 1 42	15°23'59	15°39	25°29	0 <sup>3</sup> 24	27°19	21°25	17°25	8°54	13°21	17°58	23°35	23°58	18°53	21°46	W 6
T 7	7 5 39	16°25'09	27°36	26°51	1°32	27°24	21°35	17°32	8°52	13°22	17°57	23°35	23°55	19° 0	21°49	T 7
F 8	7 9 35	17°26'18	9 <sup>9</sup> 44	28°14	2°41	27°30	21°45	17°39	8°50	13°22	17°56	23°36	23°52	19° 6	21°53	F 8
S 9	7 13 32	18°27'27	22° 7	29°38	3°49	27°36	21°55	17°46	8°49	13°23	17°54	23°R36	23°48	19°13	21°56	S 9
S 10	7 17 28	19°28'35	4 <sup>8</sup> 51	1 <sup>3</sup> 2	4°57	27°43	22° 5	17°53	8°47	13°23	17°53	23°36	23°45	19°20	21°59	S 10
M 11	7 21 25	20°29'43	17°59	2°28	6° 4	27°51	22°14	18° 0	8°45	13°24	17°52	23°35	23°42	19°26	22° 2	M 11
T 12	7 25 21	21°30'51	1 <sup>11</sup> 33	3°54	7°12	27°59	22°24	18° 7	8°43	13°25	17°51	23°35	23°39	19°33	22° 5	T 12
W 13	7 29 18	22°31'58	15°35	5°21	8°19	28° 8	22°33	18°15	8°42	13°25	17°49	23°35	23°36	19°40	22° 8	W 13
T 14	7 33 14	23°33'05	0 <sup>3</sup> 2	6°49	9°26	28°17	22°42	18°22	8°40	13°26	17°48	23°D35	23°32	19°46	22°11	T 14
F 15	7 37 11	24°34'11	14°50	8°17	10°33	28°28	22°52	18°29	8°39	13°27	17°47	23°35	23°29	19°53	22°13	F 15
S 16	7 41 8	25°35'18	29°53	9°46	11°40	28°39	23° 1	18°36	8°37	13°27	17°46	23°R35	23°26	20° 0	22°16	S 16
S 17	7 45 4	26°36'23	15 <sup>9</sup> 1	11°15	12°46	28°50	23°10	18°43	8°36	13°28	17°44	23°35	23°23	20° 6	22°18	S 17
M 18	7 49 1	27°37'29	0 <sup>10</sup> 6	12°45	13°52	29° 2	23°19	18°50	8°34	13°29	17°43	23°34	23°20	20°13	22°21	M 18
T 19	7 52 57	28°38'34	14°58	14°15	14°58	29°15	23°27	18°57	8°33	13°30	17°42	23°34	23°17	20°20	22°23	T 19
W 20	7 56 54	29°39'38	29°32	15°46	16° 3	29°28	23°36	19° 4	8°31	13°31	17°40	23°33	23°13	20°26	22°25	W 20
T 21	8 0 50	0 <sup>3</sup> 40'43	13 <sup>11</sup> 42	17°18	17° 9	29°41	23°44	19°11	8°30	13°32	17°39	23°33	23°10	20°33	22°27	T 21
F 22	8 4 47	1°41'47	27°28	18°50	18°14	29°56	23°53	19°18	8°29	13°33	17°38	23°D32	23° 7	20°40	22°28	F 22
S 23	8 8 43	2°42'52	10 <sup>10</sup> 50	20°23	19°19	0 <sup>11</sup> 10	24° 1	19°25	8°28	13°34	17°36	23°32	23° 4	20°46	22°30	S 23
S 24	8 12 40	3°43'56	23°51	21°56	20°23	0°25	24° 9	19°32	8°27	13°35	17°35	23°33	23° 1	20°53	22°32	S 24
M 25	8 16 37	4°44'59	6 <sup>12</sup> 32	23°30	21°27	0°41	24°17	19°39	8°25	13°36	17°34	23°34	22°58	21° 0	22°33	M 25
T 26	8 20 33	5°46'02	18°57	25° 4	22°31	0°57	24°25	19°46	8°24	13°37	17°32	23°35	22°54	21° 6	22°34	T 26
W 27	8 24 30	6°47'05	1 <sup>13</sup> 10	26°39	23°35	1°14	24°33	19°53	8°23	13°38	17°31	23°36	22°51	21°13	22°36	W 27
T 28	8 28 26	7°48'07	13°14	28°15	24°38	1°31	24°40	19°59	8°22	13°39	17°29	23°37	22°48	21°20	22°37	T 28
F 29	8 32 23	8°49'08	25°10	29°51	25°41	1°49	24°48	20° 6	8°22	13°40	17°28	23°R37	22°45	21°26	22°38	F 29
S 30	8 36 19	9°50'09	7 <sup>14</sup> 1	1 <sup>3</sup> 28	26°43	2° 7	24°55	20°13	8°21	13°41	17°27	23°37	22°42	21°33	22°38	S 30
S 31	8 40 16	10 <sup>15</sup> 1'08	18 <sup>15</sup> 50	3 <sup>15</sup> 5	27 <sup>15</sup> 45	2 <sup>11</sup> 25	25 <sup>15</sup> 2	20 <sup>3</sup> 20	8 <sup>11</sup> 20	13 <sup>9</sup> 43	17 <sup>9</sup> 25	23 <sup>3</sup> 35	22 <sup>3</sup> 38	21 <sup>15</sup> 40	22 <sup>15</sup> 39	S 31

Day	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
F 1	23s 1	23s 4	0s40	21s34	1n24	14s58	1s46	21n40	2n15	16s54	1n 1	22s 3	0n19	21n44	0s 4	3n50	1s32	22n22	7n20	21s22	21s15	13s19	10s 9	1s57
S 2	22 56	20 2	0n27	21 48	1 15	14 32	1 44	21 41	2 15	16 57	1 1	22 2	0 18	21 43	0 4	3 50	1 32	22 23	7 21	21 22	21 15	13 16	10 11	1 57
S 3	22 51	16 12	1 31	22 2	1 7	14 6	1 41	21 42	2 16	16 59	1 1	22 1	0 18	21 43	0 4	3 50	1 32	22 24	7 21	21 22	21 16	13 13	10 12	1 56
M 4	22 45	11 45	2 32	22 15	0 59	13 39	1 38	21 43	2 16	17 2	1 1	22 1	0 18	21 43	0 4	3 51	1 32	22 24	7 21	21 22	21 16	13 10	10 14	1 56
T 5	22 38	6 54	3 26	22 27	0 50	13 12	1 35	21 44	2 17	17 4	1 1	22 0	0 18	21 42	0 4	3 51	1 32	22 25	7 21	21 22	21 17	13 8	10 15	1 56
W 6	22 32	1 48	4 11	22 38	0 42	12 45	1 32	21 46	2 17	17 7	1 1	21 59	0 18	21 42	0 4	3 51	1 32	22 25	7 21	21 22	21 18	13 5	10 16	1 56
T 7	22 24	3n25	4 46	22 49	0 34	12 18	1 29	21 47	2 17	17 9	1 1	21 58	0 18	21 42	0 4	3 51	1 32	22 26	7 22	21 21	21 18	13 2	10 17	1 56
F 8	22 17	8 35	5 9	22 59	0 26	11 51	1 26	21 49	2 18	17 12	1 1	21 57	0 18	21 42	0 4	3 51	1 32	22 26	7 22	21 21	21 19	12 59	10 19	1 56
S 9	22 9	13 31	5 18	23 7	0 17	11 23	1 22	21 51	2 18	17 14	1 1	21 56	0 18	21 41	0 4	3 52	1 32	22 27	7 22	21 21	21 19	12 56	10 20	1 56
S 10	22 0	18 1	5 12	23 15	0 10	10 55	1 19	21 52	2 18	17 17	1 1	21 55	0 18	21 41	0 4	3 52	1 32	22 27	7 22	21 21	21 20	12 54	10 21	1 56
M11	21 51	21 48	4 50	23 22	0 2	10 26	1 15	21 54	2 19	17 19	1 1	21 55	0 18	21 41	0 4	3 52	1 32	22 28	7 22	21 21	21 20	12 51	10 22	1 56
T 12	21 42	24 33	4 11	23 27	0s 6	9 58	1 11	21 57	2 19	17 22	1 2	21 54	0 18	21 41	0 4	3 53	1 32	22 28	7 22	21 21	21 21	12 48	10 23	1 56
W13	21 32	25 53	3 16	23 32	0 13	9 29	1 7	21 59	2 19	17 24	1 2	21 53	0 18	21 40	0 4	3 53	1 32	22 29	7 23	21 21	21 21	12 45	10 24	1 55
T 14	21 22	25 32	2 7	23 35	0 21	9 0	1 3	22 1	2 19	17 26	1 2	21 52	0 18	21 40	0 4	3 53	1 32	22 30	7 23	21 22	21 22	12 42	10 25	1 55
F 15	21 11	23 24	0 48	23 37	0 28	8 31	0 59	22 3	2 19	17 28	1 2	21 51	0 18	21 40	0 4	3 53	1 32	22 30	7 23	21 21	21 22	12 39	10 26	1 55
S 16	21 0	19 35	0s35	23 38	0 35	8 2	0 55	22 6	2 19	17 30	1 2	21 50	0 18	21 40	0 3	3 54	1 32	22 31	7 23	21 21	21 23	12 37	10 26	1 55
S 17	20 49	14 27	1 56	23 38	0 41	7 33	0 51	22 9	2 19	17 33	1 2	21 49	0 17	21 39	0 3	3 54	1 32	22 31	7 23	21 22	21 24	12 34	10 27	1 55
M18	20 37	8 28	3 9	23 36	0 48	7 3	0 46	22 11	2 19	17 35	1 2	21 48	0 17	21 39	0 3	3 55	1 32	22 32	7 23	21 22	21 24	12 31	10 28	1 55
T 19	20 25	2 5	4 9	23 33	0 54	6 33	0 42	22 14	2 19	17 37	1 2	21 47	0 17	21 39	0 3	3 55	1 32	22 32	7 23	21 22	21 25	12 28	10 29	1 55
W20	20 12	4s15	4 50	23 29	1 1	6 4	0 37	22 17	2 19	17 39	1 2	21 47	0 17	21 39	0 3	3 55	1 32	22 33	7 24	21 22	21 25	12 25	10 29	1 55
T 21	19 59	10 12	5 13	23 24	1 6	5 34	0 32	22 20	2 19	17 41	1 2	21 46	0 17	21 39	0 3	3 56	1 31	22 33	7 24	21 22	21 26	12 22	10 30	1 55
F 22	19 46	15 29	5 17	23 17	1 12	5 4	0 27	22 23	2 19	17 43	1 3	21 45	0 17	21 38	0 3	3 56	1 31	22 34	7 24	21 22	21 26	12 20	10 31	1 55
S 23	19 32	19 52	5 3	23 9	1 18	4 34	0 22	22 26	2 19	17 45	1 3	21 44	0 17	21 38	0 3	3 57	1 31	22 35	7 24	21 22	21 27	12 17	10 31	1 54
S 24	19 18	23 9	4 34	23 0	1 23	4 4	0 17	22 29	2 19	17 47	1 3	21 43	0 17	21 38	0 3	3 57	1 31	22 35	7 24	21 22	21 27	12 14	10 31	1 54
M25	19 3	25 12	3 53	22 49	1 28	3 34	0 12	22 32	2 19	17 48	1 3	21 42	0 17	21 38	0 3	3 57	1 31	22 36	7 24	21 22	21 28	12 11	10 32	1 54
T 26	18 49	25 57	3 1	22 37	1 32	3 4	0 6	22 36	2 19	17 50	1 3	21 41	0 17	21 38	0 3	3 58	1 31	22 36	7 24	21 21	21 28	12 8	10 32	1 54
W27	18 33	25 26	2 1	22 23	1 37	2 33	0 1	22 39	2 19	17 52	1 3	21 40	0 17	21 38	0 3	3 58	1 31	22 37	7 25	21 21	21 29	12 5	10 33	1 54
T 28	18 18	23 43	0 57	22 8	1 41	2 3	0n 5	22 42	2 19	17 54	1 3	21 39	0 17	21 37	0 3	3 59	1 31	22 37	7 25	21 21	21 29	12 3	10 33	1 54
F 29	18 2	20 56	0n 9	21 52	1 45	1 33	0 11	22 46	2 18	17 55	1 3	21 38	0 17	21 37	0 3	3 59	1 31	22 38	7 25	21 21	21 30	12 0	10 33	1 54
S 30	17 46	17 19	1 14	21 35	1 48	1 3	0 17	22 49	2 18	17 57	1 4	21 37	0 17	21 37	0 3	4 0	1 31	22 38	7 25	21 21	21 30	11 57	10 33	1 54
S 31	17s30	13s 1	2n15	21s15	1s52	0s33	0n23	22n53	2n18	17s59	1n 4	21s36	0n17	21n37	0s 3	4n 0	1s31	22n39	7n25	21s21	21s31	11s54	10s34	1s53

# ASTRODIENST EPHEMERIS for the year 2196

## geocentric

FEBRUARY 2196

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 44 12	11°52'07	0°H39	4°44	28°47	2°44	25°9	20°27	8°R19	13°V44	17°R24	23°R33	22°35	21°46	22°40	M 1
T 2	8 48 9	12°53'05	12°28	6°22	29°49	3° 4	25°16	20°33	8°R18	13°45	17°R22	23°30	22°32	21°53	22°40	T 2
W 3	8 52 6	13°54'01	24°22	8° 2	0°V50	3°23	25°23	20°40	8°18	13°46	17°21	23°26	22°29	22° 0	22°41	W 3
T 4	8 56 2	14°54'57	6°V22	9°42	1°50	3°43	25°30	20°47	8°17	13°48	17°20	23°23	22°26	22° 6	22°41	T 4
F 5	8 59 59	15°55'51	18°31	11°23	2°50	4° 4	25°36	20°54	8°17	13°49	17°18	23°20	22°23	22°13	22°R41	F 5
S 6	9 3 55	16°56'44	0°B53	13° 4	3°50	4°25	25°42	21° 0	8°16	13°51	17°17	23°18	22°19	22°20	22°41	S 6
S 7	9 7 52	17°57'36	13°32	14°46	4°49	4°46	25°49	21° 7	8°16	13°52	17°15	23°D17	22°16	22°26	22°41	S 7
M 8	9 11 48	18°58'26	26°31	16°29	5°48	5° 8	25°55	21°13	8°15	13°53	17°14	23°17	22°13	22°33	22°40	M 8
T 9	9 15 45	19°59'15	9°II55	18°13	6°46	5°30	26° 0	21°20	8°15	13°55	17°12	23°18	22°10	22°40	22°40	T 9
W10	9 19 41	21° 0'02	23°44	19°58	7°44	5°52	26° 6	21°26	8°15	13°56	17°11	23°20	22° 7	22°46	22°40	W10
T 11	9 23 38	22° 0'48	8°B 0	21°43	8°41	6°15	26°12	21°33	8°14	13°58	17°10	23°21	22° 4	22°53	22°39	T 11
F 12	9 27 35	23° 1'33	22°42	23°29	9°37	6°37	26°17	21°39	8°14	14° 0	17° 8	23°R22	22° 0	23° 0	22°38	F 12
S 13	9 31 31	24° 2'16	7°Q43	25°16	10°33	7° 1	26°22	21°46	8°14	14° 1	17° 7	23°21	21°57	23° 6	22°37	S 13
S 14	9 35 28	25° 2'57	22°58	27° 3	11°28	7°24	26°27	21°52	8°14	14° 3	17° 5	23°19	21°54	23°13	22°36	S 14
M15	9 39 24	26° 3'37	8°II15	28°51	12°23	7°48	26°32	21°58	8°D14	14° 4	17° 4	23°15	21°51	23°20	22°35	M15
T 16	9 43 21	27° 4'16	23°24	0°H40	13°17	8°12	26°37	22° 4	8°14	14° 6	17° 3	23°10	21°48	23°26	22°34	T 16
W17	9 47 17	28° 4'54	8°B16	2°30	14°11	8°36	26°42	22°11	8°14	14° 8	17° 1	23° 5	21°44	23°33	22°33	W17
T 18	9 51 14	29° 5'30	22°43	4°19	15° 3	9° 1	26°46	22°17	8°14	14°10	17° 0	23° 0	21°41	23°40	22°31	T 18
F 19	9 55 10	0°H 6'05	6°II42	6°10	15°55	9°26	26°50	22°23	8°14	14°11	16°58	22°56	21°38	23°46	22°30	F 19
S 20	9 59 7	1° 6'39	20°12	8° 1	16°46	9°51	26°54	22°29	8°15	14°13	16°57	22°54	21°35	23°53	22°28	S 20
S 21	10 3 4	2° 7'12	3°A14	9°52	17°37	10°17	26°58	22°35	8°15	14°15	16°56	22°D53	21°32	24° 0	22°27	S 21
M22	10 7 0	3° 7'44	15°53	11°43	18°26	10°42	27° 2	22°41	8°15	14°17	16°54	22°54	21°29	24° 6	22°25	M22
T 23	10 10 57	4° 8'15	28°13	13°34	19°15	11° 8	27° 5	22°47	8°16	14°18	16°53	22°55	21°25	24°13	22°23	T 23
W24	10 14 53	5° 8'44	10°B18	15°25	20° 3	11°34	27° 9	22°53	8°16	14°20	16°52	22°57	21°22	24°20	22°21	W24
T 25	10 18 50	6° 9'12	22°13	17°16	20°50	12° 1	27°12	22°59	8°17	14°22	16°50	22°R58	21°19	24°26	22°18	T 25
F 26	10 22 46	7° 9'38	4°B 3	19° 5	21°36	12°27	27°15	23° 4	8°17	14°24	16°49	22°57	21°16	24°33	22°16	F 26
S 27	10 26 43	8°10'03	15°50	20°54	22°21	12°54	27°18	23°10	8°18	14°26	16°48	22°54	21°13	24°40	22°14	S 27
S 28	10 30 39	9°10'26	27°38	22°41	23° 5	13°21	27°20	23°16	8°18	14°28	16°46	22°49	21° 9	24°46	22°11	S 28
M29	10 34 36	10°H10'48	9°H28	24°H26	23°V48	13°II48	27°M23	23°B21	8°II19	14°V30	16°Q45	22°B42	21°B 6	24°A53	22°A 9	M29

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	17s13	8s16	3n11	20s55	1s55	0s 3	0n29	22n56	2n18	18s 0	1n 4	21s35	0n16	21n37	0s 3	4n 1	1s31
T 2	16 56	3 12	3 58	20 33	1 57	0n27	0 35	23 0	2 18	18 2	1 4	21 34	0 16	21 37	0 3	4 1	1 31
W 3	16 38	1n59	4 36	20 10	2 0	0 57	0 41	23 3	2 17	18 3	1 4	21 33	0 16	21 37	0 3	4 2	1 31
T 4	16 21	7 8	5 1	19 45	2 1	1 27	0 47	23 7	2 17	18 5	1 4	21 32	0 16	21 37	0 3	4 3	1 31
F 5	16 3 12	5 5	14 19	19 2	3 1	1 57	0 54	23 11	2 17	18 6	1 4	21 32	0 16	21 37	0 3	4 3	1 31
S 6	15 44	16 38	5 12	18 52	2 4	2 27	1 1	23 14	2 17	18 7	1 4	21 31	0 16	21 37	0 3	4 4	1 31
S 7	15 26	20 35	4 55	18 23	2 5	2 56	1 7	23 18	2 16	18 9	1 5	21 30	0 16	21 37	0 3	4 4	1 31
M 8	15 7	23 38	4 24	17 52	2 5	3 26	1 14	23 22	2 16	18 10	1 5	21 29	0 16	21 36	0 3	4 5	1 31
T 9	14 48	25 29	3 37	17 20	2 5	3 55	1 21	23 25	2 16	18 11	1 5	21 28	0 16	21 36	0 3	4 5	1 31
W10	14 29	25 51	2 36	16 47	2 5	4 24	1 28	23 29	2 15	18 12	1 5	21 27	0 16	21 36	0 3	4 6	1 31
T 11	14 9	24 34	1 23	16 12	2 4	4 54	1 35	23 33	2 15	18 14	1 5	21 26	0 16	21 36	0 3	4 7	1 31
F 12	13 50	21 34	0 4	15 36	2 3	5 22	1 42	23 36	2 15	18 15	1 5	21 25	0 16	21 36	0 3	4 7	1 31
S 13	13 30	17 4	1s18	14 59	2 1	5 51	1 49	23 40	2 15	18 16	1 5	21 24	0 16	21 36	0 3	4 8	1 31
S 14	13 10	11 24	2 35	14 20	1 58	6 19	1 57	23 44	2 14	18 17	1 5	21 23	0 16	21 36	0 3	4 9	1 30
M15	12 49	5 3	3 41	13 40	1 55	6 48	2 4	23 47	2 14	18 18	1 6	21 22	0 16	21 36	0 3	4 9	1 30
T 16	12 29	1s32	4 31	12 58	1 52	7 16	2 12	23 51	2 14	18 19	1 6	21 21	0 16	21 36	0 3	4 10	1 30
W17	12 8	7 54	5 2	12 15	1 48	7 43	2 19	23 54	2 13	18 20	1 6	21 20	0 16	21 36	0 3	4 11	1 30
T 18	11 47	13 39	5 12	11 31	1 43	8 11	2 27	23 58	2 13	18 21	1 6	21 19	0 15	21 36	0 3	4 11	1 30
F 19	11 26	18 30	5 3	10 46	1 38	8 38	2 35	24 2	2 12	18 21	1 6	21 18	0 15	21 36	0 3	4 12	1 30
S 20	11 4	22 13	4 37	9 59	1 33	9 5	2 43	24 5	2 12	18 22	1 6	21 17	0 15	21 36	0 3	4 13	1 30
S 21	10 43	24 40	3 58	9 12	1 26	9 32	2 50	24 8	2 12	18 23	1 6	21 16	0 15	21 37	0 3	4 13	1 30
M22	10 21	25 47	3 8	8 23	1 19	9 58	2 58	24 12	2 11	18 24	1 7	21 16	0 15	21 37	0 3	4 14	1 30
T 23	9 59	25 35	2 11	7 33	1 12	10 24	3 7	24 15	2 11	18 24	1 7	21 15	0 15	21 37	0 3	4 15	1 30
W24	9 37	24 9	1 8	6 43	1 3	10 50	3 15	24 18	2 11	18 25	1 7	21 14	0 15	21 37	0 3	4 16	1 30
T 25	9 15	21 39	0 4	5 52	0 54	11 15	3 23	24 22	2 10	18 26	1 7	21 13	0 15	21 37	0 3	4 16	1 30
F 26	8 52	18 15	1n 0	5 0	0 45	11 40	3 31	24 25	2 10	18 26	1 7	21 12	0 15	21 37	0 3	4 17	1 30
S 27	8 30	14 9	2 1	4 8	0 35	12 5	3 39	24 28	2 9	18 27	1 7	21 11	0 15	21 37	0 3	4 18	1 30
S 28	8 7	9 31	2 56	3 16	0 24	12 29	3 48	24 31	2 9	18 27	1 7	21 10	0 15	21 37	0 3	4 19	1 30
M29	7s45	4s33	3n44	2s24	0s12	12n53	3n56	24n34	2n 9	18s27	1n 8	21s 9	0n15	21n37	0s 3	4n19	1s30

Julian Day Number = 2523163.5, Delta T = 159.22 sec  
 Ecliptic obliquity = 23°24'53, Nutation = 0°00'17, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°28'50, Lahiri = 26°35'50



## ASTRODIENST EPHEMERIS for the year 2196

geocentric

APRIL 2196

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 40 46	12°5'25"	7°8'23"	0°R46	2°R17	29°II46	27°R 4	25°345	9°II 8	15°V39	16°R12	19°R28	19°325	28°327	20°R 5	F 1	
S 2	12 44 42	13° 4'43"	20° 6'	0°V 9	1°57	0°318	27°R 0	25°48	9°10	15°41	16°R12	19°318	19°21	28°33	20°1	S 2	
S 3	12 48 39	14° 4'00"	3°II 0	29°X36	1°34	0°50	26°56	25°51	9°13	15°43	16°11	19°10	19°18	28°40	19°56	S 3	
M 4	12 52 35	15° 3'14"	16° 7'	29° 9	1°10	1°22	26°52	25°54	9°15	15°45	16°10	19° 5	19°15	28°47	19°51	M 4	
T 5	12 56 32	16° 2'25"	29°27	28°48	0°43	1°54	26°48	25°57	9°17	15°48	16°10	19° 3	19°12	28°53	19°47	T 5	
W 6	13 0 28	17° 1'35"	13°3 3	28°31	0°14	2°27	26°44	26° 0	9°20	15°50	16° 9	19° 2	19° 9	29° 0	19°42	W 6	
T 7	13 4 25	18° 0'42"	26°55	28°21	29°V44	2°59	26°40	26° 2	9°22	15°52	16° 9	19° 2	19° 6	29° 7	19°37	T 7	
F 8	13 8 22	18°59'47"	11°R 4	28°D16	29°11	3°32	26°35	26° 5	9°25	15°54	16° 8	19° 1	19° 2	29°13	19°32	F 8	
S 9	13 12 18	19°58'49"	25°30	28°17	28°37	4° 4	26°30	26° 8	9°27	15°57	16° 8	18°58	18°59	29°20	19°28	S 9	
S 10	13 16 15	20°57'49"	10°R10	28°23	28° 2	4°37	26°25	26°10	9°30	15°59	16° 7	18°53	18°56	29°27	19°23	S 10	
M11	13 20 11	21°56'47"	24°58	28°34	27°26	5°10	26°20	26°12	9°32	16° 1	16° 7	18°44	18°53	29°33	19°18	M11	
T 12	13 24 8	22°55'42"	9°248	28°50	26°49	5°43	26°15	26°15	9°35	16° 4	16° 6	18°34	18°50	29°40	19°13	T 12	
W13	13 28 4	23°54'36"	24°29	29°11	26°12	6°15	26°10	26°17	9°38	16° 6	16° 6	18°22	18°46	29°47	19° 9	W13	
T 14	13 32 1	24°53'27"	8°R56	29°37	25°34	6°48	26° 4	26°19	9°40	16° 8	16° 6	18°11	18°43	29°53	19° 4	T 14	
F 15	13 35 57	25°52'17"	23° 0	0°V 7	24°56	7°21	25°59	26°21	9°43	16°10	16° 5	18° 1	18°40	29°59	18°59	F 15	
S 16	13 39 54	26°51'05"	6°X38	0°41	24°18	7°55	25°53	26°23	9°46	16°13	16° 5	17°53	18°37	0°X 7	18°55	S 16	
S 17	13 43 51	27°49'51"	19°50	1°19	23°41	8°28	25°47	26°25	9°49	16°15	16° 5	17°48	18°34	0°13	18°50	S 17	
M18	13 47 47	28°48'35"	2°37	2° 1	23° 4	9° 1	25°41	26°26	9°52	16°17	16° 4	17°45	18°31	0°20	18°45	M18	
T 19	13 51 44	29°47'18"	15° 1	2°47	22°29	9°34	25°35	26°28	9°54	16°19	16° 4	17°D45	18°27	0°27	18°41	T 19	
W20	13 55 40	0°45'59"	27° 9	3°36	21°54	10° 8	25°29	26°30	9°57	16°21	16° 4	17°R45	18°24	0°33	18°36	W20	
T 21	13 59 37	1°44'38"	9°28 5	4°28	21°21	10°41	25°22	26°31	10° 0	16°24	16° 4	17°45	18°21	0°40	18°31	T 21	
F 22	14 3 33	2°43'16"	20°55	5°23	20°49	11°15	25°16	26°32	10° 3	16°26	16° 4	17°43	18°18	0°47	18°27	F 22	
S 23	14 7 30	3°41'52"	2°X44	6°22	20°20	11°48	25° 9	26°34	10° 6	16°28	16° 3	17°40	18°15	0°53	18°23	S 23	
S 24	14 11 26	4°40'26"	14°37	7°23	19°52	12°22	25° 3	26°35	10° 9	16°30	16° 3	17°33	18°12	1° 0	18°18	S 24	
M25	14 15 23	5°38'59"	26°37	8°27	19°26	12°55	24°56	26°36	10°12	16°32	16° 3	17°25	18° 8	1° 7	18°14	M25	
T 26	14 19 20	6°37'29"	8°V48	9°34	19° 2	13°29	24°49	26°37	10°15	16°35	16° 3	17°14	18° 5	1°13	18° 9	T 26	
W27	14 23 16	7°35'58"	21°11	10°43	18°40	14° 3	24°42	26°38	10°18	16°37	16°D 3	17° 2	18° 2	1°20	18° 5	W27	
T 28	14 27 13	8°34'26"	3°X48	11°55	18°21	14°37	24°35	26°38	10°21	16°39	16° 3	16°50	17°59	1°27	18° 1	T 28	
F 29	14 31 9	9°32'51"	16°39	13° 9	18° 3	15°11	24°28	26°39	10°25	16°41	16° 3	16°38	17°56	1°34	17°57	F 29	
S 30	14 35 6	10°31'15"	29°X42	14°V25	17°V49	15°345	24°R21	26°340	10°II28	16°V43	16°R 3	16°329	17°352	1°X40	17°52	S 30	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4n46	18n27	4n46	2n 2	1n53	19n26	7n40	25n20	1n55	18s19	1n12	20s46	0n13	21n45	0s 3	4n46	F 1
S 2	5 10	21 54	4 18	1 33	1 37	19 20	7 41	25 19	1 54	18 18	1 12	20 45	0 13	21 46	0 3	4 47	S 2
S 3	5 33	24 18	3 38	1 5	1 21	19 13	7 42	25 19	1 54	18 17	1 12	20 45	0 13	21 46	0 3	4 48	S 3
M 4	5 55	25 25	2 44	0 40	1 5	19 5	7 42	25 18	1 54	18 16	1 12	20 44	0 13	21 46	0 3	4 49	M 4
T 5	6 18	25 6	1 42	0 16	0 49	18 55	7 42	25 17	1 53	18 15	1 12	20 44	0 13	21 47	0 3	4 50	T 5
W 6	6 41	23 18	0 32	0s 4	0 34	18 43	7 41	25 16	1 53	18 14	1 12	20 43	0 13	21 47	0 3	4 51	W 6
T 7	7 3	20 4	0s42	0 23	0 18	18 30	7 38	25 15	1 52	18 13	1 12	20 43	0 13	21 47	0 3	4 51	T 7
F 8	7 26	15 37	1 54	0 39	0 3	18 16	7 35	25 14	1 52	18 12	1 13	20 42	0 13	21 48	0 3	4 52	F 8
S 9	7 48	10 11	3 0	0 52	0s12	18 0	7 32	25 12	1 51	18 11	1 13	20 42	0 13	21 48	0 3	4 53	S 9
S 10	8 10	4 7	3 55	1 2	0 26	17 43	7 27	25 11	1 51	18 9	1 13	20 41	0 13	21 49	0 2	4 54	S 10
M11	8 32	2s13	4 35	1 10	0 39	17 24	7 21	25 9	1 50	18 8	1 13	20 41	0 12	21 49	0 2	4 55	M11
T 12	8 54	8 25	4 57	1 16	0 52	17 5	7 15	25 7	1 50	18 7	1 13	20 41	0 12	21 49	0 2	4 56	T 12
W13	9 16	14 6	4 59	1 19	1 4	16 44	7 8	25 5	1 50	18 6	1 13	20 40	0 12	21 50	0 2	4 57	W13
T 14	9 38	18 54	4 41	1 19	1 16	16 23	7 0	25 3	1 49	18 4	1 13	20 40	0 12	21 50	0 2	4 58	T 14
F 15	9 59	22 29	4 7	1 17	1 27	16 0	6 51	25 1	1 49	18 3	1 13	20 40	0 12	21 51	0 2	4 58	F 15
S 16	10 20	24 40	3 19	1 13	1 37	15 37	6 41	24 59	1 48	18 1	1 13	20 39	0 12	21 51	0 2	4 59	S 16
S 17	10 41	25 23	2 22	1 7	1 47	15 14	6 31	24 56	1 48	18 0	1 13	20 39	0 12	21 52	0 2	5 0	S 17
M18	11 2	24 43	1 19	0 58	1 56	14 50	6 20	24 54	1 47	17 59	1 13	20 39	0 12	21 52	0 2	5 1	M18
T 19	11 23	22 48	0 14	0 48	2 4	14 26	6 9	24 51	1 47	17 57	1 13	20 38	0 12	21 52	0 2	5 2	T 19
W20	11 44	19 54	0n50	0 35	2 12	14 2	5 56	24 48	1 46	17 56	1 13	20 38	0 12	21 53	0 2	5 3	W20
T 21	12 4	16 11	1 51	0 21	2 19	13 38	5 44	24 45	1 46	17 54	1 13	20 38	0 12	21 53	0 2	5 3	T 21
F 22	12 24	11 53	2 46	0 5	2 25	13 14	5 31	24 41	1 45	17 52	1 13	20 38	0 12	21 54	0 2	5 4	F 22
S 23	12 44	7 9	3 35	0n13	2 30	12 50	5 17	24 38	1 45	17 51	1 13	20 38	0 12	21 54	0 2	5 5	S 23
S 24	13 4	2 9	4 14	0 33	2 35	12 27	5 4	24 35	1 45	17 49	1 13	20 37	0 12	21 55	0 2	5 6	S 24
M25	13 23	2n59	4 42	0 54	2 40	12 4	4 50	24 31	1 44	17 48	1 13	20 37	0 12	21 55	0 2	5 7	M25
T 26	13 43	8 3	4 59	1 17	2 43	11 42	4 36	24 27	1 44	17 46	1 13	20 37	0 12	21 56	0 2	5 7	T 26
W27	14 2	12 54	5 1	1 41	2 46	11 20	4 21	24 23	1 43	17 44	1 13	20 37	0 12	21 56	0 2	5 8	W27
T 28	14 21	17 18	4 49	2 7	2 49	10 59	4 7	24 19	1 43	17 43	1 13	20 37	0 11	21 56	0 2	5 9	T 28
F 29	14 39	20 59	4 22	2 34	2 51	10 40	3 53	24 15	1 42	17 41	1 13	20 37	0 11	21 57	0 2	5 10	F 29
S 30	14n58	23n40	3n41	3n 2	2s52	10n21	3n39	24n10	1n42	17s39	1n13	20s37	0n11	21n57	0s 2	5n11	S 30

Julian Day Number = 2523223.5, Delta T = 159.38 sec

Ecliptic obliquity = 23°24'53", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°28'58", Lahiri = 26°35'59"

# ASTRODIENST EPHEMERIS for the year 2196

## geocentric

MAY 2196

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 39 2	11829°37	121157	15744	17°R37	16519	24°R14	26340	101131	16745	160 3	16°R22	17349	17447	17°R48	S 1	
M 2	14 42 59	12°27'57	26°23	17° 4	17°Y27	16°53	24116 6	26°40	10°34	16°47	16° 3	16318	17°46	1°54	17444	M 2	
T 3	14 46 55	13°26'15	9559	18°27	17°19	17°27	23°59	26°41	10°37	16°49	16° 4	16°D16	17°43	2° 0	17°40	T 3	
W 4	14 50 52	14°24'31	23°45	19°52	17°14	18° 1	23°52	26°41	10°41	16°52	16° 4	16°16	17°40	2° 7	17°37	W 4	
T 5	14 54 49	15°22'44	7040	21°19	17°12	18°36	23°44	26°R41	10°44	16°54	16° 4	16°17	17°37	2°14	17°33	T 5	
F 6	14 58 45	16°20'56	21°45	22°48	17°D12	19°10	23°37	26°41	10°47	16°56	16° 4	16°R17	17°33	2°20	17°29	F 6	
S 7	15 2 42	17°19'06	51159	24°19	17°14	19°44	23°29	26°41	10°50	16°58	16° 4	16°15	17°30	2°27	17°25	S 7	
S 8	15 6 38	18°17'13	20°19	25°52	17°18	20°19	23°22	26°41	10°54	17° 0	16° 5	16°12	17°27	2°34	17°22	S 8	
M 9	15 10 35	19°15'19	4143	27°27	17°25	20°53	23°14	26°40	10°57	17° 2	16° 5	16° 6	17°24	2°40	17°18	M 9	
T 10	15 14 31	20°13'23	19° 5	29° 4	17°34	21°28	23° 6	26°40	11° 0	17° 4	16° 5	15°58	17°21	2°47	17°15	T 10	
W11	15 18 28	21°11'25	31121	0842	17°44	22° 2	22°59	26°39	11° 4	17° 6	16° 6	15°49	17°18	2°54	17°11	W11	
T 12	15 22 24	22° 9'25	17°25	2°23	17°58	22°37	22°51	26°39	11° 7	17° 8	16° 6	15°41	17°14	3° 0	17° 8	T 12	
F 13	15 26 21	23° 7'24	1112	4° 6	18°13	23°11	22°43	26°38	11°10	17° 9	16° 7	15°33	17°11	3° 7	17° 5	F 13	
S 14	15 30 18	24° 5'22	14°39	5°51	18°30	23°46	22°36	26°37	11°14	17°11	16° 7	15°27	17° 8	3°14	17° 2	S 14	
S 15	15 34 14	25° 3'18	27°44	7°37	18°49	24°21	22°28	26°36	11°17	17°13	16° 7	15°24	17° 5	3°20	16°59	S 15	
M16	15 38 11	26° 1'12	10328	9°26	19° 9	24°55	22°20	26°35	11°21	17°15	16° 8	15°D22	17° 2	3°27	16°56	M16	
T 17	15 42 7	26°59'05	22°52	11°17	19°32	25°30	22°13	26°34	11°24	17°17	16° 8	15°22	16°58	3°34	16°53	T 17	
W18	15 46 4	27°56'57	5112	13° 9	19°56	26° 5	22° 5	26°33	11°28	17°19	16° 9	15°23	16°55	3°41	16°50	W18	
T 19	15 50 0	28°54'48	17° 0	15° 4	20°22	26°40	21°58	26°32	11°31	17°21	16°10	15°25	16°52	3°47	16°47	T 19	
F 20	15 53 57	29°52'37	28°52	17° 0	20°50	27°15	21°50	26°30	11°34	17°22	16°10	15°R25	16°49	3°54	16°45	F 20	
S 21	15 57 53	01150'25	10143	18°59	21°19	27°50	21°43	26°29	11°38	17°24	16°11	15°25	16°46	4° 1	16°42	S 21	
S 22	16 1 50	1°48'12	22°38	20°59	21°49	28°25	21°35	26°27	11°41	17°26	16°11	15°22	16°43	4° 7	16°40	S 22	
M23	16 5 47	2°45'58	4142	23° 1	22°21	29° 0	21°28	26°26	11°45	17°28	16°12	15°18	16°39	4°14	16°38	M23	
T 24	16 9 43	3°43'43	16°58	25° 5	22°55	29°35	21°20	26°24	11°48	17°29	16°13	15°13	16°36	4°21	16°35	T 24	
W25	16 13 40	4°41'27	29°29	27°10	23°29	00110	21°13	26°22	11°52	17°31	16°14	15° 6	16°33	4°27	16°33	W25	
T 26	16 17 36	5°39'10	12118	29°17	24° 5	0°45	21° 6	26°20	11°55	17°33	16°14	14°59	16°30	4°34	16°31	T 26	
F 27	16 21 33	6°36'51	25°24	11125	24°42	1°20	20°59	26°18	11°59	17°34	16°15	14°53	16°27	4°41	16°30	F 27	
S 28	16 25 29	7°34'32	81147	3°35	25°21	1°56	20°52	26°16	12° 2	17°36	16°16	14°48	16°24	4°47	16°28	S 28	
S 29	16 29 26	8°32'11	22°25	5°45	26° 0	2°31	20°45	26°14	12° 6	17°38	16°17	14°44	16°20	4°54	16°26	S 29	
M30	16 33 22	9°29'49	6116	7°57	26°41	3° 6	20°38	26°12	12°10	17°39	16°18	14°42	16°17	5° 1	16°24	M30	
T 31	16 37 19	101127'25	20116	10118	27°Y22	30142	201131	263 9	121113	17°Y41	16018	14°D42	16314	5117	16123	T 31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	15n16	25n 6	2n48	3n32	2s53	10n 3	3n24	24n 6	1n41	17s37	1n13	20s37	0n11	21n58	0s 2	5n11	1s28
M 2	15 34	25 6	1 44	4 2	2 53	9 46	3 10	24 1	1 41	17 36	1 13	20 37	0 11	21 58	0 2	5 12	1 28
T 3	15 51	23 36	0 33	4 34	2 52	9 30	2 56	23 56	1 40	17 34	1 13	20 37	0 11	21 59	0 2	5 13	1 27
W 4	16 9	20 41	0s40	5 7	2 51	9 16	2 42	23 51	1 40	17 32	1 13	20 37	0 11	21 59	0 2	5 14	1 27
T 5	16 26	16 32	1 52	5 41	2 49	9 2	2 29	23 46	1 40	17 30	1 13	20 37	0 11	22 0	0 2	5 15	1 26
F 6	16 43	11 26	2 58	6 16	2 47	8 50	2 15	23 41	1 39	17 29	1 13	20 37	0 11	22 0	0 2	5 15	1 26
S 7	16 59	5 41	3 53	6 52	2 44	8 38	2 2	23 36	1 39	17 27	1 13	20 37	0 11	22 1	0 2	5 16	1 25
S 8	17 15	0s23	4 35	7 29	2 41	8 28	1 49	23 30	1 38	17 25	1 13	20 37	0 11	22 1	0 2	5 17	1 25
M 9	17 31	6 27	4 59	8 7	2 37	8 19	1 37	23 24	1 38	17 23	1 13	20 37	0 11	22 2	0 2	5 18	1 24
T 10	17 47	12 10	5 5	8 45	2 33	8 11	1 24	23 18	1 37	17 21	1 13	20 38	0 11	22 2	0 2	5 18	1 24
W11	18 2	17 11	4 51	9 24	2 28	8 4	1 12	23 12	1 37	17 19	1 13	20 38	0 11	22 3	0 2	5 19	1 23
T 12	18 17	21 10	4 20	10 4	2 22	7 58	1 0	23 6	1 36	17 17	1 13	20 38	0 11	22 3	0 2	5 20	1 23
F 13	18 32	23 52	3 34	10 44	2 16	7 53	0 49	23 0	1 36	17 16	1 13	20 38	0 11	22 3	0 2	5 20	1 22
S 14	18 46	25 8	2 37	11 25	2 10	7 50	0 38	22 54	1 36	17 14	1 13	20 38	0 10	22 4	0 2	5 21	1 22
S 15	19 1	24 57	1 34	12 6	2 3	7 47	0 27	22 47	1 35	17 12	1 13	20 39	0 10	22 4	0 2	5 22	1 21
M16	19 14	23 27	0 26	12 48	1 55	7 45	0 17	22 40	1 35	17 10	1 12	20 39	0 10	22 5	0 2	5 22	1 21
T 17	19 28	20 49	0n40	13 30	1 48	7 44	0 7	22 34	1 34	17 8	1 12	20 39	0 10	22 5	0 2	5 23	1 20
W18	19 41	17 18	1 44	14 12	1 39	7 44	0s 3	22 27	1 34	17 6	1 12	20 39	0 10	22 6	0 2	5 24	1 20
T 19	19 54	13 9	2 42	14 54	1 31	7 45	0 13	22 20	1 33	17 5	1 12	20 40	0 10	22 6	0 2	5 24	1 20
F 20	20 6	8 31	3 33	15 36	1 22	7 47	0 22	22 12	1 33	17 3	1 12	20 40	0 10	22 7	0 2	5 25	1 19
S 21	20 18	3 37	4 15	16 17	1 12	7 50	0 31	22 5	1 32	17 1	1 12	20 40	0 10	22 7	0 2	5 26	1 19
S 22	20 30	1n27	4 45	16 59	1 2	7 53	0 39	21 57	1 32	16 59	1 12	20 41	0 10	22 8	0 2	5 26	1 18
M23	20 41	6 31	5 4	17 40	0 52	7 58	0 48	21 50	1 31	16 57	1 12	20 41	0 10	22 8	0 2	5 27	1 18
T 24	20 53	11 25	5 9	18 20	0 42	8 2	0 55	21 42	1 31	16 56	1 12	20 41	0 10	22 9	0 2	5 28	1 17
W25	21 3	15 57	5 0	18 59	0 32	8 8	1 3	21 34	1 31	16 54	1 11	20 42	0 10	22 9	0 2	5 28	1 17
T 26	21 14	19 52	4 35	19 38	0 21	8 14	1 11	21 26	1 30	16 52	1 11	20 42	0 10	22 10	0 2	5 29	1 16
F 27	21 23	22 54	3 56	20 15	0 11	8 21	1 18	21 18	1 30	16 50	1 11	20 43	0 10	22 10	0 2	5 29	1 16
S 28	21 33	24 45	3 3	20 51	0 0	8 29	1 24	21 9	1 29	16 49	1 11	20 43	0 10	22 11	0 2	5 30	1 15
S 29	21 42	25 10	1 58	21 25	0n11	8 37	1 31	21 1	1 29	16 47	1 11	20 44	0 9	22 11	0 2	5 31	1 15
M30	21 51	24 2	0 46	21 57	0 21	8 46	1 37	20 52	1 28	16 45	1 11	20 44	0 9	22 12	0 2	5 31	1 14
T 31	22n 0	21n23	0s30	22n28	0n31	8n55	1s43	20n44	1n28	16s44	1n10	20s45	0n 9	22n12	0s 2	5n32	1s14

Julian Day Number = 2523253.5, Delta T = 159.45 sec  
 Ecliptic obliquity = 23°24'52, Nutation = 0°00'15, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°29'02, Lahiri = 26°36'03



ASTRODIENST EPHEMERIS for the year 2196  
geocentric

JUNE 2196

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 41 16	11 <sup>II</sup> 25'01	4 <sup>♂</sup> 23	12 <sup>II</sup> 20	28 <sup>♀</sup> 4	4 <sup>♂</sup> 17	20°R24	26°R 7	12 <sup>II</sup> 17	17 <sup>♀</sup> 42	16 <sup>♂</sup> 19	14 <sup>♂</sup> 43	16 <sup>♂</sup> 11	5 <sup>♂</sup> 14	16°R22	W 1
T 2	16 45 12	12°22'35	18°34	14°32	28°48	4°53	20 <sup>♂</sup> 17	26 <sup>♂</sup> 4	12°20	17°44	16°20	14°45	16° 8	5°21	16°20	T 2
F 3	16 49 9	13°20'07	2 <sup>♂</sup> 47	16°44	29°32	5°28	20°11	26° 2	12°24	17°45	16°21	14°46	16° 4	5°28	16°19	F 3
S 4	16 53 5	14°17'38	16°59	18°55	0 <sup>♂</sup> 17	6° 3	20° 4	25°59	12°27	17°47	16°22	14°R46	16° 1	5°34	16°18	S 4
S 5	16 57 2	15°15'08	1 <sup>♂</sup> 9	21° 6	1° 3	6°39	19°58	25°57	12°31	17°48	16°23	14°45	15°58	5°41	16°17	S 5
M 6	17 0 58	16°12'36	15°14	23°15	1°50	7°15	19°52	25°54	12°34	17°50	16°24	14°43	15°55	5°48	16°17	M 6
T 7	17 4 55	17°10'03	29°12	25°23	2°38	7°50	19°46	25°51	12°38	17°51	16°25	14°40	15°52	5°54	16°16	T 7
W 8	17 8 51	18° 7'29	13 <sup>♂</sup> 1	27°29	3°26	8°26	19°40	25°48	12°41	17°52	16°26	14°36	15°49	6° 1	16°15	W 8
T 9	17 12 48	19° 4'54	26°38	29°34	4°15	9° 1	19°34	25°45	12°45	17°54	16°27	14°32	15°45	6° 8	16°15	T 9
F 10	17 16 45	20° 2'18	10 <sup>♂</sup> 0	1 <sup>♂</sup> 37	5° 5	9°37	19°28	25°42	12°48	17°55	16°28	14°29	15°42	6°14	16°14	F 10
S 11	17 20 41	20°59'41	23° 6	3°38	5°55	10°13	19°22	25°39	12°52	17°56	16°30	14°27	15°39	6°21	16°14	S 11
S 12	17 24 38	21°57'04	5 <sup>♂</sup> 56	5°36	6°47	10°49	19°17	25°35	12°55	17°57	16°31	14°25	15°36	6°28	16°14	S 12
M13	17 28 34	22°54'25	18°30	7°33	7°38	11°24	19°12	25°32	12°59	17°59	16°32	14°D25	15°33	6°34	16°D14	M13
T 14	17 32 31	23°51'46	0 <sup>♂</sup> 50	9°27	8°31	12° 0	19° 6	25°29	13° 2	18° 0	16°33	14°26	15°30	6°41	16°14	T 14
W15	17 36 27	24°49'06	12°56	11°19	9°24	12°36	19° 1	25°25	13° 6	18° 1	16°34	14°27	15°26	6°48	16°14	W15
T 16	17 40 24	25°46'26	24°54	13° 8	10°17	13°12	18°56	25°22	13° 9	18° 2	16°36	14°29	15°23	6°55	16°15	T 16
F 17	17 44 21	26°43'45	6 <sup>♂</sup> 47	14°56	11°11	13°48	18°52	25°18	13°13	18° 3	16°37	14°30	15°20	7° 1	16°15	F 17
S 18	17 48 17	27°41'04	18°39	16°40	12° 6	14°24	18°47	25°15	13°16	18° 4	16°38	14°31	15°17	7° 8	16°15	S 18
S 19	17 52 14	28°38'23	0 <sup>♀</sup> 34	18°22	13° 1	15° 0	18°43	25°11	13°20	18° 5	16°39	14°R31	15°14	7°15	16°16	S 19
M20	17 56 10	29°35'41	12°39	20° 2	13°56	15°36	18°38	25° 7	13°23	18° 6	16°41	14°31	15°10	7°21	16°17	M20
T 21	18 0 7	0 <sup>♂</sup> 32'59	24°56	21°39	14°52	16°12	18°34	25° 3	13°26	18° 7	16°42	14°30	15° 7	7°28	16°18	T 21
W22	18 4 3	1°30'16	7 <sup>♂</sup> 30	23°14	15°49	16°48	18°30	25° 0	13°30	18° 8	16°43	14°28	15° 4	7°35	16°19	W22
T 23	18 8 0	2°27'34	20°24	24°46	16°46	17°24	18°26	24°56	13°33	18° 9	16°45	14°27	15° 1	7°41	16°20	T 23
F 24	18 11 56	3°24'51	3 <sup>♂</sup> 39	26°16	17°43	18° 0	18°22	24°52	13°37	18°10	16°46	14°25	14°58	7°48	16°21	F 24
S 25	18 15 53	4°22'08	17°16	27°43	18°41	18°36	18°19	24°48	13°40	18°11	16°47	14°24	14°55	7°55	16°22	S 25
S 26	18 19 50	5°19'24	1 <sup>♂</sup> 14	29° 8	19°39	19°13	18°16	24°44	13°43	18°12	16°49	14°23	14°51	8° 2	16°24	S 26
M27	18 23 46	6°16'41	15°28	0 <sup>♂</sup> 30	20°38	19°49	18°12	24°40	13°47	18°12	16°50	14°D23	14°48	8° 8	16°25	M27
T 28	18 27 43	7°13'57	29°55	1°49	21°37	20°25	18° 9	24°36	13°50	18°13	16°52	14°23	14°45	8°15	16°27	T 28
W29	18 31 39	8°11'12	14 <sup>♂</sup> 28	3° 6	22°36	21° 1	18° 7	24°32	13°53	18°14	16°53	14°24	14°42	8°22	16°29	W29
T 30	18 35 36	9 <sup>♂</sup> 8'27	29 <sup>♂</sup> 3	4 <sup>♂</sup> 20	23 <sup>♂</sup> 36	21 <sup>♂</sup> 38	18 <sup>♂</sup> 4	24 <sup>♂</sup> 27	13 <sup>♂</sup> 57	18 <sup>♀</sup> 15	16 <sup>♂</sup> 55	14 <sup>♂</sup> 24	14 <sup>♂</sup> 39	8 <sup>♂</sup> 28	16 <sup>♂</sup> 31	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	22n 8	17n26	1 s45	22n56	0n41	9n 5	1 s49	20n35	1n27	16s42	1n10	20s45	0n 9	22n13	0s 2	5n32	1 s31	22n52	7n17	22s36	22s26	5s57	7s33	1 s13			
T 2	22 15	12 29	2 s54	23 22	0 51	9 15	1 s4	20 26	1 27	16 40	1 10	20 46	0 9	22 13	0 2	5 33	1 31	22 51	7 17	22 36	22 26	5 55	7 32	1 13			
F 3	22 23	6 51	3 s53	23 45	1 0	9 26	2 0	20 17	1 26	16 39	1 10	20 46	0 9	22 13	0 2	5 33	1 31	22 51	7 17	22 36	22 27	5 52	7 31	1 12			
S 4	22 29	0 53	4 s37	24 6	1 9	9 37	2 5	20 8	1 26	16 37	1 10	20 47	0 9	22 14	0 2	5 34	1 31	22 51	7 17	22 36	22 27	5 49	7 31	1 12			
S 5	22 36	5s 6	5 s4	24 24	1 17	9 48	2 9	19 58	1 25	16 36	1 10	20 47	0 9	22 14	0 2	5 34	1 31	22 50	7 17	22 36	22 28	5 46	7 30	1 11			
M 6	22 42	10 48	5 s13	24 39	1 25	10 0	2 14	19 49	1 25	16 34	1 9	20 48	0 9	22 15	0 2	5 35	1 31	22 50	7 16	22 36	22 28	5 43	7 29	1 11			
T 7	22 48	15 54	5 s3	24 51	1 32	10 12	2 18	19 39	1 25	16 33	1 9	20 49	0 9	22 15	0 2	5 35	1 31	22 49	7 16	22 37	22 28	5 40	7 28	1 10			
W 8	22 53	20 6	4 s36	25 1	1 38	10 25	2 22	19 29	1 24	16 31	1 9	20 49	0 9	22 16	0 2	5 36	1 32	22 49	7 16	22 37	22 29	5 37	7 28	1 10			
T 9	22 58	23 9	3 s53	25 8	1 43	10 38	2 26	19 20	1 24	16 30	1 9	20 50	0 9	22 16	0 2	5 36	1 32	22 49	7 16	22 37	22 29	5 34	7 27	1 9			
F 10	23 2	24 52	2 s58	25 13	1 48	10 51	2 30	19 10	1 23	16 29	1 9	20 51	0 9	22 17	0 2	5 37	1 32	22 48	7 16	22 38	22 29	5 31	7 26	1 9			
S 11	23 7	25 9	1 s55	25 14	1 52	11 4	2 33	19 0	1 23	16 27	1 8	20 51	0 8	22 17	0 2	5 37	1 32	22 48	7 16	22 38	22 30	5 28	7 26	1 8			
S 12	23 10	24 3	0 s47	25 13	1 56	11 18	2 36	18 49	1 22	16 26	1 8	20 52	0 8	22 18	0 2	5 37	1 32	22 47	7 16	22 38	22 30	5 25	7 25	1 8			
M13	23 13	21 46	0n23	25 10	1 58	11 32	2 39	18 39	1 22	16 25	1 8	20 53	0 8	22 18	0 2	5 38	1 32	22 47	7 16	22 38	22 31	5 22	7 25	1 7			
T 14	23 16	18 30	1 n29	25 5	2 0	11 46	2 42	18 29	1 21	16 24	1 8	20 53	0 8	22 18	0 2	5 38	1 32	22 46	7 16	22 38	22 31	5 19	7 24	1 7			
W15	23 19	14 30	2 s31	24 57	2 1	12 0	2 45	18 18	1 21	16 22	1 8	20 54	0 8	22 19	0 2	5 39	1 32	22 46	7 16	22 38	22 31	5 16	7 24	1 6			
T 16	23 21	9 59	3 s25	24 47	2 2	12 15	2 47	18 7	1 20	16 21	1 7	20 55	0 8	22 19	0 2	5 39	1 32	22 45	7 16	22 38	22 32	5 13	7 24	1 6			
F 17	23 22	5 8	4 s10	24 35	2 1	12 29	2 49	17 57	1 20	16 20	1 7	20 55	0 8	22 20	0 2	5 39	1 32	22 45	7 15	22 38	22 32	5 10	7 24	1 6			
S 18	23 24	0 7	4 s44	24 22	2 0	12 44	2 51	17 46	1 19	16 19	1 7	20 56	0 8	22 20	0 2	5 40	1 32	22 45	7 15	22 37	22 32	5 7	7 23	1 5			
S 19	23 24	4n55	5 s7	24 7	1 58	12 59	2 53	17 35	1 19	16 18	1 7	20 57	0 8	22 21	0 2	5 40	1 32	22 44	7 15	22 37	22 33	5 4	7 23	1 5			
M20	23 25	9 50	5 s16	23 50	1 56	13 13	2 55	17 24	1 19	16 17	1 6	20 58	0 8	22 21	0 2	5 40	1 32	22 44	7 15	22 37	22 33	5 1	7 23	1 4			
T 21	23 25	14 27	5 s11	23 32	1 53	13 28	2 56	17 12	1 18	16 16	1 6	20 58	0 8	22 22	0 2	5 41	1 32	22 43	7 15	22 38	22 33	4 58	7 23	1 4			
W22	23 24	18 35	4 s51	23 12	1 49	13 43	2 58	17 1	1 18	16 15	1 6	20 59	0 8	22 22	0 2	5 41	1 32	22 43	7 15	22 38	22 34	4 55	7 23	1 3			
T 23	23 23	21 56	4 s16	22 51	1 44	13 58	2 59	16 50	1 17	16 15	1 6	21 0	0 8	22 22	0 2	5 41	1 32	22 42	7 15	22 38	22 34	4 52	7 23	1 3			
F 24	23 22	24 15	3 s27	22 29	1 39	14 13	3 0	16 38	1 17	16 14	1 6	21 1	0 7	22 23	0 2	5 42	1 32	22 42	7 15	22 38	22 35	4 49	7 23	1 2			
S 25	23 21	25 12	2 s25	22 7	1 33	14 28	3 1	16 27	1 16	16 13	1 5	21 1	0 7	22 23	0 2	5 42	1 32	22 41	7 15	22 38	22 35	4 46	7 23	1 2			
S 26	23 18	24 37	1 s12	21 43	1 26	14 43	3 1	16 15	1 16	16 12	1 5	21 2	0 7	22 24	0 2	5 42	1 32	22 41	7 15	22 38	22 35	4 43	7 23	1 1			
M27	23 16	22 25	0s 6	21 19	1 19	14 58	3 2	16 3	1 15	16 12	1 5	21 3	0 7	22 24	0 2	5 42	1 33	22 40	7 15	22 38	22 36	4 40	7 23	1 1			
T 28	23 13	18 46	1 s25	20 54	1 11	15 13	3 2	15 51	1 15	16 11	1 5	21 4	0 7	22 24	0 2	5 43	1 33	22 40	7 15	22 38	22 36	4 37	7 23	1 0			
W29	23 10	13 56	2 s39	20 28	1 3	15 27	3 3	15 39	1 14	16 11	1 4	21 5	0 7	22 25	0 2	5 43	1 33	22 39	7 15	22 38	22 36	4 35	7 24	1 0			
T 30	23n 6	8n18	3s43	20n 2	0n54	15n42	3s 3	15n27	1n14	16s10	1n 4	21s 6	0n 7	22n25	0s 2	5n43	1s33	22n39	7n15	22s38	22s37	4s32	7s24	0s59			

ASTRODIENST EPHEMERIS for the year 2196  
geocentric

JULY 2196

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 39 32	10♌ 5'41	13♎33	5♊31	24♋35	22♌14	18°R 1	24°R23	14♐ 0	18°V15	16♑56	14♒25	14♓36	8♈35	16♉33	F 1
S 2	18 43 29	11° 2'55	27°55	6°39	25°36	22°51	17♎59	24♓19	14° 3	18°16	16°58	14°25	14°32	8°42	16°35	S 2
S 3	18 47 25	12° 0'08	12♌ 5	7°44	26°36	23°27	17°57	24°15	14° 6	18°17	16°59	14°R25	14°29	8°48	16°37	S 3
M 4	18 51 22	12°57'21	26° 1	8°47	27°37	24° 4	17°55	24°10	14° 9	18°17	17° 1	14°25	14°26	8°55	16°39	M 4
T 5	18 55 19	13°54'34	9♎44	9°46	28°38	24°40	17°53	24° 6	14°13	18°18	17° 2	14°D25	14°23	9° 2	16°42	T 5
W 6	18 59 15	14°51'46	23°11	10°42	29°40	25°17	17°52	24° 2	14°16	18°18	17° 4	14°25	14°20	9° 8	16°44	W 6
T 7	19 3 12	15°48'58	6♌23	11°34	0♐41	25°53	17°50	23°57	14°19	18°19	17° 5	14°25	14°16	9°15	16°47	T 7
F 8	19 7 8	16°46'10	19°21	12°23	1°43	26°30	17°49	23°53	14°22	18°19	17° 7	14°25	14°13	9°22	16°50	F 8
S 9	19 11 5	17°43'22	2♓ 6	13° 9	2°46	27° 6	17°48	23°49	14°25	18°19	17° 9	14°25	14°10	9°29	16°52	S 9
S 10	19 15 1	18°40'33	14°38	13°51	3°48	27°43	17°47	23°44	14°28	18°20	17°10	14°R25	14° 7	9°35	16°55	S 10
M 11	19 18 58	19°37'45	26°58	14°29	4°51	28°20	17°47	23°40	14°31	18°20	17°12	14°25	14° 4	9°42	16°58	M 11
T 12	19 22 54	20°34'57	9♌ 8	15° 3	5°54	28°56	17°46	23°36	14°34	18°21	17°14	14°25	14° 1	9°49	17° 2	T 12
W 13	19 26 51	21°32'09	21°10	15°33	6°57	29°33	17°46	23°31	14°37	18°21	17°15	14°24	13°57	9°55	17° 5	W 13
T 14	19 30 48	22°29'21	3♈ 5	15°59	8° 1	0♐10	17°D46	23°27	14°40	18°21	17°17	14°23	13°54	10° 2	17° 8	T 14
F 15	19 34 44	23°26'34	14°57	16°21	9° 4	0°47	17°46	23°22	14°43	18°21	17°19	14°22	13°51	10° 9	17°12	F 15
S 16	19 38 41	24°23'47	26°48	16°38	10° 8	1°23	17°46	23°18	14°46	18°21	17°20	14°21	13°48	10°15	17°15	S 16
S 17	19 42 37	25°21'01	8♌43	16°50	11°13	2° 0	17°46	23°13	14°49	18°22	17°22	14°20	13°45	10°22	17°19	S 17
M 18	19 46 34	26°18'15	20°47	16°58	12°17	2°37	17°47	23° 9	14°52	18°22	17°24	14°D19	13°42	10°29	17°23	M 18
T 19	19 50 30	27°15'29	3♋ 2	17°R 1	13°22	3°14	17°48	23° 5	14°55	18°22	17°25	14°19	13°38	10°36	17°27	T 19
W 20	19 54 27	28°12'45	15°34	16°59	14°26	3°51	17°49	23° 0	14°57	18°22	17°27	14°20	13°35	10°42	17°31	W 20
T 21	19 58 23	29°10'01	28°26	16°52	15°31	4°28	17°50	22°56	15° 0	18°R22	17°29	14°21	13°32	10°49	17°35	T 21
F 22	20 2 20	0♑ 7'18	11♐43	16°40	16°37	5° 5	17°51	22°51	15° 3	18°22	17°30	14°22	13°29	10°56	17°39	F 22
S 23	20 6 17	1° 4'36	25°24	16°24	17°42	5°42	17°52	22°47	15° 6	18°22	17°32	14°23	13°26	11° 2	17°43	S 23
S 24	20 10 13	2° 1'54	9♌31	16° 3	18°48	6°19	17°54	22°43	15° 8	18°22	17°34	14°R24	13°22	11° 9	17°47	S 24
M 25	20 14 10	2°59'13	24° 0	15°38	19°53	6°56	17°56	22°38	15°11	18°22	17°36	14°24	13°19	11°16	17°52	M 25
T 26	20 18 6	3°56'32	8♑47	15° 8	20°59	7°34	17°58	22°34	15°14	18°21	17°38	14°23	13°16	11°22	17°56	T 26
W 27	20 22 3	4°53'52	23°44	14°35	22° 5	8°11	18° 0	22°30	15°16	18°21	17°39	14°21	13°13	11°29	18° 1	W 27
T 28	20 25 59	5°51'13	8♎43	13°58	23°12	8°48	18° 2	22°26	15°19	18°21	17°41	14°18	13°10	11°36	18° 6	T 28
F 29	20 29 56	6°48'34	23°36	13°19	24°18	9°25	18° 5	22°21	15°21	18°21	17°43	14°15	13° 7	11°43	18°11	F 29
S 30	20 33 52	7°45'55	8♌14	12°37	25°24	10° 3	18° 8	22°17	15°24	18°21	17°45	14°13	13° 3	11°49	18°15	S 30
S 31	20 37 49	8♑43'17	22♌34	11♑54	26♐31	10♎40	18♎11	22♓13	15♐26	18°V20	17♑46	14♒11	13♓ 0	11♈56	18♉20	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	23n 2	2n16	4s32	19n36	0n45	15n57	3 s 3	15n15	1n13	16s10	1n 4	21s 6	0n 7	22n26	0s 2	5n43	1s33	22n38	7n15	22s38	22s37	4s29	7s24	0s59	
S 2	22 57	3s49	5 4	19 9	0 35	16 11	3 2	15 2	1 13	16 9	1 4	21 7	0 7	22 26	0 2	5 43	1 33	22 38	7 14	22 38	22 37	4 26	7 25	0 59	
S 3	22 52	9 38	5 17	18 42	0 24	16 25	3 2	14 50	1 13	16 9	1 3	21 8	0 7	22 26	0 2	5 44	1 33	22 37	7 14	22 38	22 38	4 23	7 25	0 58	
M 4	22 47	14 52	5 11	18 16	0 13	16 39	3 2	14 37	1 12	16 9	1 3	21 9	0 7	22 27	0 2	5 44	1 33	22 37	7 14	22 38	22 38	4 20	7 26	0 58	
T 5	22 41	19 15	4 47	17 49	0 2	16 53	3 1	14 25	1 12	16 8	1 3	21 10	0 7	22 27	0 2	5 44	1 33	22 36	7 14	22 38	22 38	4 17	7 26	0 57	
W 6	22 35	22 32	4 8	17 23	0s10	17 7	3 0	14 12	1 11	16 8	1 3	21 10	0 6	22 28	0 2	5 44	1 33	22 35	7 14	22 38	22 39	4 14	7 27	0 57	
T 7	22 29	24 34	3 16	16 56	0 22	17 21	3 0	13 59	1 11	16 8	1 2	21 11	0 6	22 28	0 2	5 44	1 33	22 35	7 14	22 38	22 39	4 11	7 27	0 56	
F 8	22 22	25 13	2 15	16 31	0 35	17 34	2 59	13 46	1 10	16 8	1 2	21 12	0 6	22 28	0 2	5 44	1 33	22 34	7 14	22 38	22 39	4 8	7 28	0 56	
S 9	22 15	24 32	1 8	16 5	0 48	17 47	2 58	13 33	1 10	16 8	1 2	21 13	0 6	22 29	0 2	5 44	1 33	22 34	7 14	22 38	22 40	4 5	7 29	0 55	
S 10	22 7	22 36	0n 1	15 40	1 1	18 0	2 57	13 20	1 9	16 8	1 2	21 14	0 6	22 29	0 2	5 45	1 33	22 33	7 14	22 38	22 40	4 2	7 29	0 55	
M11	21 59	19 37	1 9	15 16	1 15	18 12	2 55	13 7	1 9	16 8	1 1	21 15	0 6	22 29	0 2	5 45	1 33	22 33	7 14	22 38	22 40	3 59	7 30	0 54	
T 12	21 50	15 49	2 13	14 53	1 29	18 25	2 54	12 54	1 8	16 8	1 1	21 16	0 6	22 30	0 2	5 45	1 33	22 32	7 14	22 38	22 41	3 56	7 31	0 54	
W13	21 42	11 26	3 10	14 31	1 43	18 37	2 52	12 41	1 8	16 8	1 1	21 16	0 6	22 30	0 2	5 45	1 33	22 32	7 14	22 38	22 41	3 53	7 32	0 54	
T 14	21 32	6 40	3 58	14 9	1 58	18 49	2 51	12 27	1 7	16 8	1 1	21 17	0 6	22 30	0 2	5 45	1 33	22 31	7 14	22 38	22 41	3 50	7 33	0 53	
F 15	21 23	1 41	4 36	13 49	2 12	19 0	2 49	12 14	1 7	16 9	1 0	21 18	0 6	22 31	0 2	5 45	1 34	22 31	7 14	22 38	22 42	3 47	7 34	0 53	
S 16	21 13	3n21	5 2	13 30	2 26	19 11	2 47	12 0	1 6	16 9	1 0	21 19	0 6	22 31	0 2	5 45	1 34	22 30	7 14	22 39	22 42	3 44	7 34	0 52	
S 17	21 3	8 17	5 15	13 13	2 41	19 22	2 46	11 47	1 6	16 9	1 0	21 20	0 5	22 31	0 2	5 45	1 34	22 30	7 14	22 39	22 42	3 41	7 35	0 52	
M18	20 52	12 57	5 14	12 57	2 55	19 32	2 44	11 33	1 5	16 10	1 0	21 21	0 5	22 32	0 2	5 45	1 34	22 29	7 14	22 39	22 43	3 38	7 37	0 51	
T 19	20 41	17 12	5 0	12 43	3 9	19 42	2 42	11 19	1 5	16 10	0 59	21 21	0 5	22 32	0 2	5 45	1 34	22 29	7 14	22 39	22 43	3 35	7 38	0 51	
W20	20 30	20 48	4 31	12 30	3 23	19 52	2 39	11 5	1 4	16 11	0 59	21 22	0 5	22 32	0 2	5 45	1 34	22 28	7 14	22 39	22 43	3 32	7 39	0 51	
T 21	20 18	23 29	3 47	12 19	3 37	20 1	2 37	10 51	1 4	16 11	0 59	21 23	0 5	22 33	0 2	5 45	1 34	22 27	7 14	22 39	22 44	3 29	7 40	0 50	
F 22	20 6	24 59	2 51	12 10	3 50	20 10	2 35	10 37	1 4	16 12	0 58	21 24	0 5	22 33	0 2	5 45	1 34	22 27	7 14	22 38	22 44	3 26	7 41	0 50	
S 23	19 54	25 3	1 43	12 3	4 2	20 19	2 33	10 23	1 3	16 13	0 58	21 25	0 5	22 33	0 2	5 45	1 34	22 26	7 14	22 38	22 44	3 24	7 42	0 49	
S 24	19 41	23 31	0 27	11 59	4 13	20 27	2 30	10 9	1 3	16 13	0 58	21 25	0 5	22 34	0 2	5 44	1 34	22 26	7 14	22 38	22 45	3 21	7 44	0 49	
M25	19 28	20 25	0s53	11 56	4 24	20 35	2 28	9 55	1 2	16 14	0 58	21 26	0 5	22 34	0 2	5 44	1 34	22 25	7 14	22 38	22 45	3 18	7 45	0 48	
T 26	19 15	15 57	2 10	11 56	4 33	20 42	2 25	9 41	1 2	16 15	0 57	21 27	0 5	22 34	0 2	5 44	1 34	22 25	7 14	22 38	22 45	3 15	7 46	0 48	
W27	19 1	10 27	3 20	11 57	4 41	20 49	2 22	9 26	1 1	16 16	0 57	21 28	0 5	22 35	0 2	5 44	1 34	22 24	7 14	22 39	22 46	3 12	7 48	0 48	
T 28	18 47	4 20	4 16	12 1	4 48	20 55	2 20	9 12	1 1	16 17	0 57	21 29	0 5	22 35	0 2	5 44	1 34	22 24	7 14	22 39	22 46	3 9	7 49	0 47	
F 29	18 33	1s58	4 54	12 7	4 53	21 1	2 17	8 58	1 0	16 17	0 57	21 29	0 4	22 35	0 2	5 44	1 34	22 23	7 14	22 39	22 46	3 6	7 51	0 47	
S 30	18 19	8 3	5 13	12 15	4 57	21 6	2 14	8 43	1 0	16 18	0 56	21 30	0 4	22 35	0 1	5 44	1 34	22 23	7 14	22 39	22 46	3 3	7 52	0 46	
S 31	18n 4	13s35	5s11	12n25	4s59	21n11	2s11	8n28	0n59	16s19	0n56	21s31	0n 4	22n36	0s 1	5n44	1s34	22n22	7n14	22s40	22s47	3s 0	7s54	0s46	

Julian Day Number = 2523314.5, Delta T = 159.61 sec  
Ecliptic obliquity = 23°24'51, Nutation = 0°00'17, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°29'11, Lahiri = 26°36'11



# ASTRODIENST EPHEMERIS for the year 2196

## geocentric

AUGUST 2196

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 41 46	9♏40'39	6♏32	11°R 9	27♏38	11♏17	18♏14	22°R 9	15♏28	18°R20	17♏48	14°D10	12♏57	12♏3	18♏25	M 1
T 2	20 45 42	10°38'02	20° 8	10♏25	28°45	11°55	18°17	22♏5	15°31	18°Y19	17°50	14♏10	12°54	12° 9	18°31	T 2
W 3	20 49 39	11°35'25	3♏23	9°42	29°52	12°32	18°20	22° 1	15°33	18°19	17°52	14°11	12°51	12°16	18°36	W 3
T 4	20 53 35	12°32'49	16°20	9° 0	1♏0	13° 9	18°24	21°57	15°35	18°19	17°54	14°13	12°48	12°23	18°41	T 4
F 5	20 57 32	13°30'13	29° 0	8°20	2° 7	13°47	18°28	21°53	15°38	18°18	17°55	14°14	12°44	12°30	18°47	F 5
S 6	21 1 28	14°27'39	11♏26	7°44	3°15	14°24	18°31	21°49	15°40	18°18	17°57	14°R15	12°41	12°36	18°52	S 6
S 7	21 5 25	15°25'05	23°42	7°11	4°22	15° 2	18°36	21°45	15°42	18°17	17°59	14°15	12°38	12°43	18°58	S 7
M 8	21 9 22	16°22'31	5♏50	6°43	5°30	15°40	18°40	21°41	15°44	18°17	18° 1	14°13	12°35	12°50	19° 3	M 8
T 9	21 13 18	17°19'59	17°50	6°20	6°38	16°17	18°44	21°37	15°46	18°16	18° 3	14°10	12°32	12°56	19° 9	T 9
W10	21 17 15	18°17'28	29°46	6° 3	7°46	16°55	18°49	21°34	15°48	18°15	18° 5	14° 5	12°28	13° 3	19°15	W10
T11	21 21 11	19°14'57	11♏38	5°52	8°54	17°33	18°53	21°30	15°50	18°15	18° 6	13°59	12°25	13°10	19°21	T11
F12	21 25 8	20°12'28	23°30	5°D47	10° 3	18°10	18°58	21°26	15°52	18°14	18° 8	13°52	12°22	13°16	19°27	F12
S13	21 29 4	21°10'00	5°Y22	5°49	11°11	18°48	19° 3	21°23	15°54	18°13	18°10	13°46	12°19	13°23	19°33	S13
S14	21 33 1	22° 7'33	17°18	5°57	12°20	19°26	19° 8	21°19	15°56	18°13	18°12	13°40	12°16	13°30	19°39	S14
M15	21 36 57	23° 5'08	29°21	6°13	13°29	20° 4	19°14	21°16	15°58	18°12	18°14	13°36	12°13	13°37	19°45	M15
T16	21 40 54	24° 2'44	11♏35	6°36	14°38	20°41	19°19	21°13	16° 0	18°11	18°15	13°33	12° 9	13°43	19°51	T16
W17	21 44 50	25° 0'22	24° 3	7° 6	15°47	21°19	19°25	21° 9	16° 1	18°10	18°17	13°D33	12° 6	13°50	19°58	W17
T18	21 48 47	25°58'01	6♏51	7°43	16°56	21°57	19°31	21° 6	16° 3	18° 9	18°19	13°33	12° 3	13°57	20° 4	T18
F19	21 52 44	26°55'42	20° 1	8°27	18° 5	22°35	19°37	21° 3	16° 5	18° 9	18°21	13°34	12° 0	14° 3	20°11	F19
S20	21 56 40	27°53'24	3♏38	9°18	19°15	23°13	19°43	21° 0	16° 6	18° 8	18°23	13°35	11°57	14°10	20°17	S20
S21	22 0 37	28°51'08	17°43	10°15	20°24	23°51	19°49	20°57	16° 8	18° 7	18°24	13°R36	11°53	14°17	20°24	S21
M22	22 4 33	29°48'54	2♏14	11°20	21°34	24°29	19°55	20°54	16°10	18° 6	18°26	13°34	11°50	14°24	20°31	M22
T23	22 8 30	0♏46'40	17° 8	12°30	22°43	25° 7	20° 2	20°51	16°11	18° 5	18°28	13°31	11°47	14°30	20°37	T23
W24	22 12 26	1°44'29	2♏18	13°46	23°53	25°46	20° 8	20°48	16°12	18° 4	18°30	13°26	11°44	14°37	20°44	W24
T25	22 16 23	2°42'18	17°34	15° 8	25° 3	26°24	20°15	20°45	16°14	18° 3	18°32	13°19	11°41	14°44	20°51	T25
F26	22 20 19	3°40'09	2♏45	16°35	26°13	27° 2	20°22	20°43	16°15	18° 2	18°33	13°11	11°38	14°50	20°58	F26
S27	22 24 16	4°38'01	17°40	18° 7	27°23	27°40	20°29	20°40	16°16	18° 1	18°35	13° 4	11°34	14°57	21° 5	S27
S28	22 28 13	5°35'55	2♏14	19°43	28°33	28°19	20°36	20°38	16°18	17°59	18°37	12°58	11°31	15° 4	21°12	S28
M29	22 32 9	6°33'50	16°20	21°24	29°44	28°57	20°44	20°35	16°19	17°58	18°39	12°54	11°28	15°10	21°19	M29
T30	22 36 6	7°31'46	29°59	23° 8	0♏54	29°35	20°51	20°33	16°20	17°57	18°40	12°53	11°25	15°17	21°26	T30
W31	22 40 2	8♏29'43	13♏12	24♏55	2♏5	0♏14	20♏59	20♏31	16♏21	17°Y56	18♏42	12°D52	11♏22	15♏24	21♏34	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	17n49	18s15	4s51	12n37	4s59	21n15	2s 8	8n14	0n59	16s21	0n56	21s32	0n 4	22n36	0s 1	5n43
T 2	17 33	21 51	4 15	12 50	4 57	21 19	2 5	7 59	0 58	16 22	0 56	21 32	0 4	22 36	0 1	5 43
W 3	17 17	24 10	3 26	13 5	4 54	21 23	2 2	7 44	0 58	16 23	0 55	21 33	0 4	22 36	0 1	5 43
T 4	17 1	25 9	2 27	13 20	4 49	21 26	1 59	7 30	0 57	16 24	0 55	21 34	0 4	22 37	0 1	5 43
F 5	16 45	24 47	1 23	13 37	4 42	21 28	1 56	7 15	0 57	16 25	0 55	21 35	0 4	22 37	0 1	5 42
S 6	16 29	23 11	0 15	13 55	4 33	21 30	1 53	7 0	0 56	16 27	0 55	21 35	0 4	22 37	0 1	5 42
S 7	16 12	20 29	0n52	14 12	4 23	21 31	1 50	6 45	0 56	16 28	0 55	21 36	0 4	22 37	0 1	5 42
M 8	15 55	16 56	1 55	14 30	4 12	21 32	1 46	6 30	0 55	16 29	0 54	21 37	0 4	22 38	0 1	5 42
T 9	15 37	12 43	2 53	14 48	3 59	21 32	1 43	6 15	0 55	16 31	0 54	21 37	0 3	22 38	0 1	5 41
W10	15 20	8 4	3 43	15 6	3 45	21 32	1 40	6 0	0 54	16 32	0 54	21 38	0 3	22 38	0 1	5 41
T11	15 2	3 8	4 23	15 23	3 31	21 31	1 36	5 45	0 54	16 34	0 54	21 39	0 3	22 38	0 1	5 41
F12	14 44	1n52	4 51	15 39	3 15	21 29	1 33	5 29	0 53	16 35	0 53	21 39	0 3	22 39	0 1	5 41
S13	14 26	6 49	5 7	15 54	2 59	21 27	1 29	5 14	0 53	16 37	0 53	21 40	0 3	22 39	0 1	5 40
S14	14 7	11 33	5 9	16 8	2 42	21 25	1 26	4 59	0 52	16 39	0 53	21 41	0 3	22 39	0 1	5 40
M15	13 48	15 53	4 59	16 21	2 25	21 22	1 23	4 44	0 52	16 40	0 53	21 41	0 3	22 39	0 1	5 40
T16	13 30	19 38	4 34	16 32	2 8	21 18	1 19	4 28	0 51	16 42	0 52	21 42	0 3	22 39	0 1	5 39
W17	13 10	22 35	3 56	16 41	1 51	21 14	1 16	4 13	0 51	16 44	0 52	21 42	0 3	22 40	0 1	5 39
T18	12 51	24 29	3 6	16 48	1 34	21 9	1 12	3 58	0 50	16 45	0 52	21 43	0 3	22 40	0 1	5 39
F19	12 31	25 6	2 4	16 53	1 17	21 4	1 9	3 42	0 50	16 47	0 52	21 44	0 3	22 40	0 1	5 38
S20	12 12	24 16	0 54	16 56	1 1	20 58	1 5	3 27	0 49	16 49	0 51	21 44	0 2	22 40	0 1	5 38
S21	11 52	21 53	0s22	16 56	0 45	20 51	1 2	3 11	0 49	16 51	0 51	21 45	0 2	22 40	0 1	5 37
M22	11 32	18 2	1 39	16 54	0 29	20 44	0 58	2 56	0 48	16 53	0 51	21 45	0 2	22 40	0 1	5 37
T23	11 11	12 58	2 51	16 49	0 14	20 36	0 55	2 40	0 48	16 55	0 51	21 46	0 2	22 41	0 1	5 37
W24	10 51	7 2	3 52	16 41	0n 0	20 28	0 51	2 25	0 47	16 57	0 51	21 46	0 2	22 41	0 1	5 36
T25	10 30	0 40	4 37	16 30	0 14	20 19	0 47	2 9	0 47	16 59	0 50	21 47	0 2	22 41	0 1	5 36
F26	10 9	5s42	5 2	16 16	0 27	20 10	0 44	1 53	0 46	17 1	0 50	21 47	0 2	22 41	0 1	5 35
S27	9 48	11 38	5 6	16 0	0 39	20 0	0 40	1 38	0 46	17 3	0 50	21 48	0 2	22 41	0 1	5 35
S28	9 27	16 46	4 50	15 40	0 49	19 50	0 37	1 22	0 45	17 5	0 50	21 48	0 2	22 41	0 1	5 34
M29	9 6	20 48	4 16	15 18	0 59	19 39	0 33	1 6	0 45	17 7	0 50	21 49	0 2	22 41	0 1	5 34
T30	8 44	23 32	3 29	14 52	1 8	19 27	0 30	0 51	0 44	17 9	0 49	21 49	0 2	22 42	0 1	5 33
W31	8n23	24s53	2s32	14n24	1n17	19n15	0s26	0n35	0n44	17s12	0n49	21s50	0n 2	22n42	0s 1	5n33

Julian Day Number = 2523345.5, Delta T = 159.69 sec  
 Ecliptic obliquity = 23°24'51, Nutation = 0°00'18, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°29'15, Lahiri = 26°36'15

ASTRODIENST EPHEMERIS for the year 2196  
geocentric

SEPTEMBER 2196

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 43 59	9♍27'41	26♌1	26♌44	3♌15	0♌52	21♌6	20°R29	16♌22	17°R55	18♌44	12♌53	11♌19	15♌31	21♌41	T 1
F 2	22 47 55	10°25'41	8♌32	28°36	4°26	1°31	21°14	20♌27	16°23	17°Y54	18°45	12°R54	11°15	15°37	21°48	F 2
S 3	22 51 52	11°23'43	20°48	0♍29	5°37	2°9	21°22	20°25	16°24	17°52	18°47	12°54	11°12	15°44	21°56	S 3
S 4	22 55 48	12°21'45	2♌53	2°24	6°48	2°48	21°30	20°23	16°25	17°51	18°49	12°52	11°9	15°51	22°3	S 4
M 5	22 59 45	13°19'49	14°51	4°20	7°59	3°26	21°39	20°21	16°26	17°50	18°51	12°47	11°6	15°57	22°10	M 5
T 6	23 3 42	14°17'55	26°45	6°16	9°10	4°5	21°47	20°19	16°27	17°48	18°52	12°40	11°3	16°4	22°18	T 6
W 7	23 7 38	15°16'02	8♌37	8°13	10°21	4°43	21°55	20°17	16°27	17°47	18°54	12°31	10°59	16°11	22°26	W 7
T 8	23 11 35	16°14'10	20°29	10°9	11°32	5°22	22°4	20°16	16°28	17°46	18°56	12°19	10°56	16°18	22°33	T 8
F 9	23 15 31	17°12'21	2°Y22	12°6	12°43	6°1	22°13	20°15	16°29	17°44	18°57	12°7	10°53	16°24	22°41	F 9
S 10	23 19 28	18°10'33	14°18	14°2	13°55	6°40	22°21	20°13	16°29	17°43	18°59	11°55	10°50	16°31	22°49	S 10
S 11	23 23 24	19°8'47	26°18	15°57	15°6	7°18	22°30	20°12	16°30	17°42	19°0	11°44	10°47	16°38	22°57	S 11
M12	23 27 21	20°7'03	8♌25	17°52	16°18	7°57	22°39	20°11	16°30	17°40	19°2	11°35	10°44	16°44	23°4	M12
T 13	23 31 17	21°5'22	20°41	19°47	17°30	8°36	22°49	20°10	16°31	17°39	19°4	11°29	10°40	16°51	23°12	T 13
W14	23 35 14	22°3'42	3♌11	21°40	18°41	9°15	22°58	20°9	16°31	17°37	19°5	11°25	10°37	16°58	23°20	W14
T 15	23 39 11	23°2'04	15°55	23°33	19°53	9°54	23°7	20°8	16°32	17°36	19°7	11°23	10°34	17°5	23°28	T 15
F 16	23 43 7	24°0'29	28°59	25°24	21°5	10°33	23°17	20°7	16°32	17°34	19°8	11°D23	10°31	17°11	23°36	F 16
S 17	23 47 4	24°58'55	12♌28	27°15	22°17	11°12	23°26	20°6	16°32	17°33	19°10	11°R23	10°28	17°18	23°44	S 17
S 18	23 51 0	25°57'24	26°23	29°4	23°29	11°51	23°36	20°6	16°32	17°31	19°11	11°23	10°25	17°25	23°52	S 18
M19	23 54 57	26°55'55	10♌44	0♌53	24°42	12°30	23°46	20°5	16°32	17°30	19°13	11°20	10°21	17°31	24°0	M19
T 20	23 58 53	27°54'28	25°31	2°40	25°54	13°10	23°55	20°5	16°32	17°28	19°14	11°15	10°18	17°38	24°8	T 20
W21	0 2 50	28°53'03	10♍37	4°27	27°6	13°49	24°5	20°5	16°R32	17°27	19°16	11°7	10°15	17°45	24°17	W21
T 22	0 6 46	29°51'39	25°54	6°12	28°19	14°28	24°16	20°4	16°32	17°25	19°17	10°57	10°12	17°51	24°25	T 22
F 23	0 10 43	0♌50'18	11♌11	7°56	29°31	15°7	24°26	20°D 4	16°32	17°23	19°19	10°46	10°9	17°58	24°33	F 23
S 24	0 14 40	1°48'59	26°15	9°40	0♍44	15°47	24°36	20°4	16°32	17°22	19°20	10°35	10°5	18°5	24°41	S 24
S 25	0 18 36	2°47'42	10♌59	11°22	1°56	16°26	24°46	20°4	16°32	17°20	19°22	10°26	10°2	18°12	24°50	S 25
M26	0 22 33	3°46'26	25°15	13°3	3°9	17°6	24°57	20°5	16°32	17°19	19°23	10°19	9°59	18°18	24°58	M26
T 27	0 26 29	4°45'12	9♌1	14°44	4°22	17°45	25°7	20°5	16°32	17°17	19°24	10°15	9°56	18°25	25°6	T 27
W28	0 30 26	5°44'00	22°17	16°23	5°35	18°25	25°18	20°5	16°31	17°15	19°26	10°13	9°53	18°32	25°15	W28
T 29	0 34 22	6°42'50	5♌8	18°2	6°48	19°4	25°29	20°6	16°31	17°14	19°27	10°13	9°50	18°38	25°23	T 29
F 30	0 38 19	7♌41'41	17♌37	19♌39	8♍1	19♌44	25♌39	20♌6	16♌30	17°Y12	19♌28	10♌13	9♌46	18♌45	25♌32	F 30

Day	☉	☽		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	8n 1	24s50	1s29	13n54	1n24	19n 2	0s23	0n19	0n43	17s14	0n49	21s50	0n 1	22n42	0s 1	5n32	1s36	22n 7	7n17	22s47	22s56	1s26	8s58	0s34		
F 2	7 39	23 32	0 23	13 21	1 30	18 49	0 20	0 3	0 43	17 16	0 49	21 50	0 1	22 42	0 1	5 32	1 36	22 6	7 17	22 47	22 56	1 23	9 0	0 34		
S 3	7 17	21 7	0n42	12 46	1 35	18 35	0 16	0s12	0 42	17 18	0 49	21 51	0 1	22 42	0 1	5 31	1 36	22 6	7 18	22 47	22 57	1 20	9 3	0 33		
S 4	6 55	17 48	1 45	12 9	1 39	18 21	0 13	0 28	0 42	17 21	0 48	21 51	0 1	22 42	0 1	5 31	1 36	22 5	7 18	22 48	22 57	1 17	9 5	0 33		
M 5	6 33	13 47	2 42	11 30	1 42	18 6	0 9	0 44	0 41	17 23	0 48	21 51	0 1	22 42	0 1	5 30	1 36	22 5	7 18	22 48	22 57	1 14	9 8	0 33		
T 6	6 10	9 16	3 32	10 50	1 45	17 51	0 6	1 0	0 41	17 25	0 48	21 52	0 1	22 42	0 1	5 30	1 36	22 5	7 18	22 49	22 57	1 11	9 10	0 32		
W 7	5 48	4 26	4 12	10 8	1 46	17 35	0 3	1 16	0 40	17 28	0 48	21 52	0 1	22 42	0 1	5 29	1 36	22 4	7 18	22 50	22 58	1 8	9 13	0 32		
T 8	5 26	0n32	4 41	9 24	1 47	17 19	0n 1	1 31	0 40	17 30	0 48	21 52	0 1	22 42	0 1	5 29	1 36	22 4	7 18	22 51	22 58	1 5	9 15	0 32		
F 9	5 3	5 30	4 58	8 40	1 47	17 2	0 4	1 47	0 39	17 32	0 47	21 53	0 1	22 43	0 1	5 28	1 36	22 4	7 18	22 52	22 58	1 2	9 18	0 31		
S 10	4 40	10 16	5 2	7 55	1 47	16 45	0 7	2 3	0 39	17 35	0 47	21 53	0 1	22 43	0 1	5 28	1 36	22 3	7 19	22 53	22 58	0 59	9 20	0 31		
S 11	4 17	14 41	4 53	7 9	1 45	16 27	0 10	2 19	0 38	17 37	0 47	21 53	0 1	22 43	0 1	5 27	1 36	22 3	7 19	22 54	22 59	0 57	9 23	0 31		
M12	3 55	18 33	4 30	6 23	1 43	16 9	0 13	2 35	0 38	17 40	0 47	21 53	0 1	22 43	0 1	5 26	1 36	22 2	7 19	22 55	22 59	0 54	9 26	0 30		
T 13	3 32	21 41	3 55	5 36	1 41	15 50	0 16	2 50	0 37	17 42	0 47	21 54	0 1	22 43	0 1	5 26	1 36	22 2	7 19	22 55	22 59	0 51	9 28	0 30		
W14	3 9	23 51	3 8	4 48	1 38	15 31	0 20	3 6	0 37	17 45	0 46	21 54	0 1	22 43	0 1	5 25	1 36	22 2	7 19	22 55	22 59	0 48	9 31	0 30		
T 15	2 46	24 50	2 11	4 1	1 35	15 11	0 23	3 22	0 36	17 47	0 46	21 54	0 1	22 43	0 1	5 25	1 36	22 1	7 20	22 56	23 0	0 45	9 33	0 29		
F 16	2 23	24 30	1 5	3 13	1 31	14 51	0 26	3 38	0 36	17 50	0 46	21 54	0 1	22 43	0 1	5 24	1 37	22 1	7 20	22 56	23 0	0 42	9 36	0 29		
S 17	2 0	22 44	0s 6	2 25	1 27	14 31	0 28	3 53	0 35	17 52	0 46	21 55	0 1	22 43	0 1	5 24	1 37	22 1	7 20	22 56	23 0	0 39	9 39	0 29		
S 18	1 36	19 34	1 19	1 37	1 22	14 10	0 31	4 9	0 35	17 55	0 46	21 55	0 1	22 43	0 1	5 23	1 37	22 0	7 20	22 56	23 0	0 36	9 41	0 28		
M19	1 13	15 8	2 29	0 50	1 17	13 49	0 34	4 25	0 34	17 58	0 45	21 55	0s 0	22 43	0 1	5 22	1 37	22 0	7 20	22 56	23 1	0 33	9 44	0 28		
T 20	0 50	9 41	3 31	0 2	1 12	13 27	0 37	4 41	0 33	18 0	0 45	21 55	0 1	22 43	0 1	5 22	1 37	22 0	7 20	22 56	23 1	0 30	9 47	0 28		
W21	0 27	3 34	4 20	0s45	1 6	13 5	0 40	4 56	0 33	18 3	0 45	21 55	0 1	22 43	0 1	5 21	1 37	22 0	7 21	22 57	23 1	0 27	9 50	0 27		
T 22	0 3	2s49	4 51	1 32	1 1	12 43	0 42	5 12	0 32	18 5	0 45	21 55	0 1	22 43	0 1	5 21	1 37	21 59	7 21	22 58	23 1	0 24	9 52	0 27		
F 23	0s20	9 2	5 1	2 19	0 55	12 20	0 45	5 28	0 32	18 8	0 45	21 55	0 1	22 43	0 1	5 20	1 37	21 59	7 21	22 59	23 2	0 22	9 55	0 27		
S 24	0 43	14 37	4 50	3 5	0 48	11 57	0 48	5 43	0 31	18 11	0 45	21 55	0 1	22 43	0 1	5 19	1 37	21 59	7 21	23 0	23 2	0 19	9 58	0 26		
S 25	1 7	19 13	4 20	3 51	0 42	11 33	0 50	5 59	0 30	18 13	0 44	21 55	0 1	22 43	0 1	5 19	1 37	21 59	7 21	23 0	23 2	0 16	10 0	0 26		
M26	1 30	22 31	3 34	4 36	0 35	11 9	0 53	6 15	0 30	18 16	0 44	21 56	0 1	22 43	0 1	5 18	1 37	21 58	7 22	23 1	23 2	0 13	10 3	0 26		
T 27	1 53	24 22	2 37	5 21	0 29	10 45	0 55	6 30	0 30	18 19	0 44	21 56	0 1	22 43	0 1	5 17	1 37	21 58	7 22	23 1	23 3	0 10	10 6	0 25		
W28	2 17	24 45	1 33	6 6	0 22	10 21	0 57	6 46	0 29	18 21	0 44	21 56	0 1	22 43	0 1	5 17	1 37	21 58	7 22	23 1	23 3	0 7	10 9	0 25		
T 29	2 40	23 46	0 27	6 50	0 15	9 56	1 0	7 1	0 29	18 24	0 44	21 56	0 1	22 43	0 1	5 16	1 37	21 58	7 22	23 1	23 3	0 4	10 12	0 25		
F 30	3s 3	21s37	0n39	7s33	0n 8	9n31	1n 2	7s17	0n28	18s27	0n44	21s56	0s 1	22n43	0s 1	5n15	1s37	21n57	7n23	23s 1	23s 3	0s 1	10s14	0s24		

# ASTRODIENST EPHEMERIS for the year 2196

## geocentric

OCTOBER 2196

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 42 15	8♂40'34	29♂50	21♂16	9♂14	20♂23	25♂50	20♂7	16°R30	17°R10	19♂30	10°R12	9♂43	18♂52	25♂40	S 1
S 2	0 46 12	9°39'29	11♂51	22°52	10°27	21° 3	26° 1	20° 8	16♂29	17° 9	19°31	10♂9	9°40	18°59	25°49	S 2
M 3	0 50 9	10°38'25	23°45	24°27	11°40	21°43	26°12	20° 9	16°29	17° 7	19°32	10° 4	9°37	19° 5	25°57	M 3
T 4	0 54 5	11°37'24	5♂36	26° 1	12°53	22°23	26°24	20°10	16°28	17° 5	19°33	9°55	9°34	19°12	26° 6	T 4
W 5	0 58 2	12°36'24	17°27	27°34	14° 7	23° 2	26°35	20°11	16°27	17° 4	19°35	9°44	9°30	19°19	26°14	W 5
T 6	1 1 58	13°35'26	29°20	29° 6	15°20	23°42	26°46	20°12	16°27	17° 2	19°36	9°31	9°27	19°25	26°23	T 6
F 7	1 5 55	14°34'29	11°18	0♂38	16°33	24°22	26°57	20°13	16°26	17° 0	19°37	9°17	9°24	19°32	26°31	F 7
S 8	1 9 51	15°33'35	23°21	2° 9	17°47	25° 2	27° 9	20°15	16°25	16°59	19°38	9° 3	9°21	19°39	26°40	S 8
S 9	1 13 48	16°32'43	5♂31	3°39	19° 0	25°42	27°20	20°16	16°24	16°57	19°39	8°50	9°18	19°46	26°49	S 9
M10	1 17 44	17°31'54	17°48	5° 8	20°14	26°22	27°32	20°18	16°23	16°55	19°40	8°39	9°15	19°52	26°57	M10
T 11	1 21 41	18°31'06	0♂14	6°36	21°28	27° 2	27°43	20°19	16°22	16°54	19°41	8°31	9°11	19°59	27° 6	T 11
W12	1 25 37	19°30'21	12°50	8° 3	22°41	27°42	27°55	20°21	16°21	16°52	19°43	8°26	9° 8	20° 6	27°15	W12
T 13	1 29 34	20°29'38	25°40	9°30	23°55	28°22	28° 7	20°23	16°20	16°50	19°44	8°24	9° 5	20°12	27°23	T 13
F 14	1 33 31	21°28'57	8♂45	10°56	25° 9	29° 2	28°19	20°25	16°19	16°49	19°45	8°D24	9° 2	20°19	27°32	F 14
S 15	1 37 27	22°28'19	22° 9	12°20	26°23	29°43	28°31	20°27	16°18	16°47	19°46	8°R24	8°59	20°26	27°41	S 15
S 16	1 41 24	23°27'42	5♂55	13°44	27°37	0♂23	28°43	20°29	16°17	16°45	19°47	8°23	8°56	20°33	27°49	S 16
M17	1 45 20	24°27'09	20° 3	15° 7	28°51	1° 3	28°55	20°31	16°15	16°44	19°48	8°21	8°52	20°39	27°58	M17
T 18	1 49 17	25°26'37	4♂34	16°29	0♂5	1°44	29° 7	20°34	16°14	16°42	19°48	8°16	8°49	20°46	28° 7	T 18
W19	1 53 13	26°26'08	19°23	17°50	1°19	2°24	29°19	20°36	16°13	16°41	19°49	8° 9	8°46	20°53	28°15	W19
T 20	1 57 10	27°25'41	4♂24	19°10	2°33	3° 5	29°31	20°39	16°11	16°39	19°50	8° 0	8°43	20°59	28°24	T 20
F 21	2 1 6	28°25'16	19°28	20°29	3°47	3°45	29°43	20°41	16°10	16°37	19°51	7°49	8°40	21° 6	28°33	F 21
S 22	2 5 3	29°24'53	4♂25	21°47	5° 1	4°26	29°56	20°44	16° 8	16°36	19°52	7°39	8°36	21°13	28°41	S 22
S 23	2 9 0	0♂24'32	19° 6	23° 3	6°16	5° 6	0♂8	20°47	16° 7	16°34	19°53	7°30	8°33	21°20	28°50	S 23
M24	2 12 56	1°24'13	3♂24	24°18	7°30	5°47	0°21	20°50	16° 5	16°32	19°53	7°23	8°30	21°26	28°59	M24
T 25	2 16 53	2°23'56	17°14	25°31	8°44	6°28	0°33	20°53	16° 4	16°31	19°54	7°19	8°27	21°33	29° 8	T 25
W26	2 20 49	3°23'41	0♂36	26°43	9°59	7° 8	0°46	20°56	16° 2	16°29	19°55	7°17	8°24	21°40	29°16	W26
T 27	2 24 46	4°23'27	13°32	27°53	11°13	7°49	0°58	20°59	16° 0	16°28	19°56	7°D17	8°21	21°47	29°25	T 27
F 28	2 28 42	5°23'15	26° 4	29° 1	12°27	8°30	1°11	21° 2	15°59	16°26	19°56	7°17	8°17	21°53	29°34	F 28
S 29	2 32 39	6°23'05	8♂19	0♂7	13°42	9°11	1°23	21° 6	15°57	16°24	19°57	7°R18	8°14	22° 0	29°42	S 29
S 30	2 36 35	7°22'57	20°21	1°10	14°57	9°52	1°36	21° 9	15°55	16°23	19°58	7°17	8°11	22° 7	29°51	S 30
M31	2 40 32	8♂22'50	2♂15	2♂11	16♂11	10♂33	1♂49	21♂13	15♂53	16♂21	19♂58	7♂14	8♂8	22♂13	29♂59	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3s26	18s30	1n42	8s16	0n 1	9n 5	1n 4	7s32	0n28	18s30	0n43	21s56	0s 1	22n43	0s 1	S 1
S 2	3 49	14 40	2 39	8 59	0s 6	8 40	1 6	7 47	0 27	18 32	0 43	21 56	0 1	22 43	0 1	S 2
M 3	4 12	10 19	3 28	9 40	0 13	8 14	1 8	8 3	0 26	18 35	0 43	21 55	0 1	22 43	0 1	M 3
T 4	4 36	5 36	4 8	10 21	0 20	7 48	1 10	8 18	0 26	18 38	0 43	21 55	0 1	22 43	0 1	T 4
W 5	4 59	0 42	4 38	11 2	0 28	7 21	1 12	8 33	0 25	18 40	0 43	21 55	0 1	22 43	0 1	W 5
T 6	5 21	4n15	4 55	11 41	0 35	6 54	1 14	8 48	0 25	18 43	0 43	21 55	0 1	22 43	0 1	T 6
F 7	5 44	9 3	4 59	12 20	0 42	6 28	1 15	9 4	0 24	18 46	0 43	21 55	0 2	22 43	0 1	F 7
S 8	6 7	13 33	4 50	12 59	0 49	6 0	1 17	9 19	0 24	18 49	0 42	21 55	0 2	22 42	0 1	S 8
S 9	6 30	17 33	4 28	13 36	0 56	5 33	1 19	9 34	0 23	18 51	0 42	21 55	0 2	22 42	0 1	S 9
M10	6 52	20 51	3 53	14 13	1 3	5 6	1 20	9 49	0 23	18 54	0 42	21 55	0 2	22 42	0 1	M10
T 11	7 15	23 13	3 7	14 49	1 10	4 38	1 22	10 4	0 22	18 57	0 42	21 54	0 2	22 42	0 1	T 11
W12	7 37	24 29	2 11	15 24	1 17	4 10	1 23	10 19	0 22	19 0	0 42	21 54	0 2	22 42	0 1	W12
T 13	8 0	24 27	1 7	15 58	1 24	3 42	1 24	10 33	0 21	19 3	0 42	21 54	0 2	22 42	0 1	T 13
F 14	8 22	23 6	0s 2	16 32	1 31	3 14	1 26	10 48	0 20	19 5	0 42	21 54	0 2	22 42	0 1	F 14
S 15	8 44	20 24	1 12	17 4	1 38	2 46	1 27	11 3	0 20	19 8	0 41	21 54	0 2	22 42	0 1	S 15
S 16	9 6	16 30	2 20	17 36	1 44	2 18	1 28	11 18	0 19	19 11	0 41	21 53	0 2	22 42	0 1	S 16
M17	9 28	11 35	3 22	18 7	1 50	1 49	1 29	11 32	0 19	19 14	0 41	21 53	0 2	22 42	0 1	M17
T 18	9 50	5 55	4 12	18 37	1 57	1 21	1 30	11 47	0 18	19 16	0 41	21 53	0 2	22 41	0 1	T 18
W19	10 11	0s11	4 46	19 6	2 3	0 52	1 31	12 1	0 18	19 19	0 41	21 53	0 2	22 41	0 1	W19
T 20	10 33	6 21	5 1	19 33	2 8	0 23	1 32	12 15	0 17	19 22	0 41	21 52	0 2	22 41	0 1	T 20
F 21	10 54	12 10	4 56	20 0	2 14	0s 6	1 32	12 30	0 17	19 24	0 41	21 52	0 3	22 41	0 1	F 21
S 22	11 15	17 13	4 30	20 26	2 19	0 34	1 33	12 44	0 16	19 27	0 41	21 52	0 3	22 41	0 1	S 22
S 23	11 36	21 7	3 47	20 51	2 24	1 3	1 33	12 58	0 15	19 30	0 40	21 51	0 3	22 41	0 1	S 23
M24	11 57	23 35	2 50	21 14	2 29	1 32	1 34	13 12	0 15	19 33	0 40	21 51	0 3	22 41	0 1	M24
T 25	12 18	24 32	1 45	21 37	2 34	2 1	1 34	13 26	0 14	19 35	0 40	21 50	0 3	22 40	0 1	T 25
W26	12 38	24 0	0 36	21 58	2 38	2 30	1 35	13 40	0 14	19 38	0 40	21 50	0 3	22 40	0 1	W26
T 27	12 58	22 11	0n33	22 18	2 42	2 59	1 35	13 54	0 13	19 41	0 40	21 50	0 3	22 40	0 1	T 27
F 28	13 18	19 18	1 39	22 36	2 45	3 27	1 35	14 7	0 13	19 43	0 40	21 49	0 3	22 40	0 1	F 28
S 29	13 38	15 37	2 38	22 53	2 48	3 56	1 35	14 21	0 12	19 46	0 40	21 49	0 3	22 40	0 1	S 29
S 30	13 58	11 23	3 29	23 9	2 51	4 25	1 35	14 35	0 11	19 49	0 40	21 48	0 3	22 40	0 1	S 30
M31	14s17	6s46	4n10	23s24	2s53	4s53	1n35	14s48	0n11	19s51	0n39	21s48	0s 3	22n39	0s 1	M31

Julian Day Number = 2523406.5, Delta T = 159.85 sec  
 Ecliptic obliquity = 23°24'51, Nutation = 0°00'17, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°29'23, Lahiri = 26°36'24

# ASTRODIENST EPHEMERIS for the year 2196

## geocentric

NOVEMBER 2196

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 44 29	9♉22°44'	14♊6°	3♈9°	17♊26°	11♉14°	2♈2°	21♈16°	15°R51	16°R20	19♉59°	7°R 8	8♈5°	22♈20°	0♉8°	T 1
W 2	2 48 25	10°22'41"	25°58'	4° 3	18°40'	11°55'	2°15'	21°20'	15°II50	16°Y18	19°59'	7♈0°	8° 2	22°27'	0°17'	W 2
T 3	2 52 22	11°22'39"	7°Y54'	4°54'	19°55'	12°36'	2°27'	21°24'	15°48'	16°17'	20° 0	6°51'	7°58'	22°34'	0°25'	T 3
F 4	2 56 18	12°22'38"	19°58'	5°41'	21°10'	13°17'	2°40'	21°27'	15°46'	16°15'	20° 0	6°40'	7°55'	22°40'	0°34'	F 4
S 5	3 0 15	13°22'40"	2♈10°	6°23'	22°24'	13°58'	2°53'	21°31'	15°44'	16°14'	20° 1	6°30'	7°52'	22°47'	0°43'	S 5
S 6	3 4 11	14°22'43"	14°32'	7° 0	23°39'	14°40'	3° 6	21°35'	15°42'	16°13'	20° 1	6°20'	7°49'	22°54'	0°51'	S 6
M 7	3 8 8	15°22'49"	27° 5	7°32'	24°54'	15°21'	3°19'	21°39'	15°40'	16°11'	20° 1	6°12'	7°46'	23° 0	1° 0	M 7
T 8	3 12 4	16°22'56"	9♉47°	7°57'	26° 9	16° 2	3°32'	21°44'	15°37'	16°10'	20° 2	6° 7	7°42'	23° 7	1° 8	T 8
W 9	3 16 1	17°23'05"	22°41'	8°16'	27°24'	16°43'	3°45'	21°48'	15°35'	16° 8	20° 2	6° 4	7°39'	23°14'	1°17'	W 9
T 10	3 19 58	18°23'16"	5♈46°	8°27'	28°39'	17°25'	3°58'	21°52'	15°33'	16° 7	20° 2	6°D 3	7°36'	23°21'	1°25'	T 10
F 11	3 23 54	19°23'29"	19° 4	8°R29	29°53'	18° 6	4°12'	21°56'	15°31'	16° 6	20° 3	6° 3	7°33'	23°27'	1°34'	F 11
S 12	3 27 51	20°23'44"	2♉35°	8°23'	1♉ 8	18°48'	4°25'	22° 1	15°29'	16° 4	20° 3	6° 5	7°30'	23°34'	1°42'	S 12
S 13	3 31 47	21°24'01"	16°21'	8° 8	2°23'	19°29'	4°38'	22° 5	15°27'	16° 3	20° 3	6°R 6	7°27'	23°41'	1°50'	S 13
M14	3 35 44	22°24'20"	0♉21°	7°42'	3°38'	20°11'	4°51'	22°10'	15°24'	16° 2	20° 3	6° 5	7°23'	23°47'	1°59'	M14
T 15	3 39 40	23°24'41"	14°36'	7° 7	4°53'	20°53'	5° 4	22°15'	15°22'	16° 1	20° 4	6° 3	7°20'	23°54'	2° 7	T 15
W16	3 43 37	24°25'04"	29° 3	6°21'	6° 8	21°34'	5°18'	22°20'	15°20'	15°59'	20° 4	6° 0	7°17'	24° 1	2°15'	W16
T 17	3 47 33	25°25'29"	13♈39°	5°26'	7°24'	22°16'	5°31'	22°24'	15°17'	15°58'	20° 4	5°54'	7°14'	24° 8	2°24'	T 17
F 18	3 51 30	26°25'56"	28°18'	4°22'	8°39'	22°58'	5°44'	22°29'	15°15'	15°57'	20° 4	5°48'	7°11'	24°14'	2°32'	F 18
S 19	3 55 27	27°26'24"	12♉52°	3°10'	9°54'	23°40'	5°58'	22°34'	15°13'	15°56'	20° 4	5°42'	7° 7	24°21'	2°40'	S 19
S 20	3 59 23	28°26'55"	27°15'	1°53'	11° 9	24°22'	6°11'	22°39'	15°10'	15°55'	20°R 4	5°36'	7° 4	24°28'	2°48'	S 20
M21	4 3 20	29°27'26"	11♈21°	0°32'	12°24'	25° 4	6°24'	22°44'	15° 8	15°53'	20° 4	5°32'	7° 1	24°34'	2°57'	M21
T 22	4 7 16	0♈28'00"	25° 5	29♉11°	13°39'	25°46'	6°38'	22°50'	15° 5	15°52'	20° 4	5°30'	6°58'	24°41'	3° 5	T 22
W23	4 11 13	1°28'35"	8♈25°	27°52'	14°54'	26°28'	6°51'	22°55'	15° 3	15°51'	20° 4	5°D30	6°55'	24°48'	3°13'	W23
T 24	4 15 9	2°29'11"	21°23'	26°37'	16°10'	27°10'	7° 4	23° 0	15° 1	15°50'	20° 4	5°31'	6°52'	24°55'	3°21'	T 24
F 25	4 19 6	3°29'48"	3♈58°	25°29'	17°25'	27°52'	7°18'	23° 5	14°58'	15°49'	20° 4	5°32'	6°48'	25° 1	3°29'	F 25
S 26	4 23 2	4°30'26"	16°17'	24°30'	18°40'	28°34'	7°31'	23°11'	14°56'	15°48'	20° 4	5°34'	6°45'	25° 8	3°37'	S 26
S 27	4 26 59	5°31'06"	28°21'	23°42'	19°55'	29°16'	7°45'	23°16'	14°53'	15°47'	20° 3	5°35'	6°42'	25°15'	3°45'	S 27
M28	4 30 56	6°31'46"	10♈17°	23° 4	21°11'	29°59'	7°58'	23°22'	14°51'	15°46'	20° 3	5°R36	6°39'	25°22'	3°53'	M28
T 29	4 34 52	7°32'28"	22° 9	22°38'	22°26'	0♈41°	8°11'	23°28'	14°48'	15°46'	20° 3	5°34'	6°36'	25°28'	4° 0	T 29
W30	4 38 49	8♈33'10"	4°Y 2	22♉24°	23♉41°	1♈23°	8♈25°	23♈33°	14°II46	15°Y45	20°R 3	5♈32°	6♈33°	25♈35°	4♉ 8	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s36'	1s56'	4n41'	23s37'	2s54'	5s22'	1n35'	15s 1'	0n10'	19s54'	0n39'	21s47'	0s 3'	22n39'	0s 1'	4n55'
W 2	14 55'	2n58'	4 59'	23 48'	2 55'	5 50'	1 35'	15 14'	0 10'	19 57'	0 39'	21 47'	0 3'	22 39'	0 1'	4 55'
T 3	15 14'	7 48'	5 5'	23 57'	2 55'	6 19'	1 35'	15 27'	0 9'	19 59'	0 39'	21 46'	0 4'	22 39'	0 1'	4 54'
F 4	15 32'	12 22'	4 57'	24 5'	2 54'	6 47'	1 35'	15 40'	0 9'	20 2'	0 39'	21 46'	0 4'	22 39'	0 1'	4 54'
S 5	15 50'	16 31'	4 35'	24 11'	2 53'	7 15'	1 34'	15 53'	0 8'	20 5'	0 39'	21 45'	0 4'	22 38'	0 1'	4 53'
S 6	16 8'	20 1'	4 0'	24 15'	2 50'	7 43'	1 34'	16 6'	0 7'	20 7'	0 39'	21 45'	0 4'	22 38'	0 1'	4 53'
M 7	16 26'	22 37'	3 14'	24 17'	2 47'	8 11'	1 33'	16 19'	0 7'	20 10'	0 39'	21 44'	0 4'	22 38'	0 1'	4 52'
T 8	16 43'	24 9'	2 16'	24 17'	2 42'	8 39'	1 33'	16 31'	0 6'	20 12'	0 39'	21 44'	0 4'	22 38'	0 1'	4 52'
W 9	17 0'	24 24'	1 11'	24 14'	2 36'	9 6'	1 32'	16 44'	0 6'	20 15'	0 39'	21 43'	0 4'	22 38'	0 1'	4 51'
T 10	17 17'	23 19'	0 1'	24 9'	2 29'	9 33'	1 31'	16 56'	0 5'	20 17'	0 38'	21 42'	0 4'	22 37'	0 1'	4 51'
F 11	17 33'	20 54'	1s10'	24 1'	2 21'	10 1'	1 30'	17 8'	0 4'	20 20'	0 38'	21 42'	0 4'	22 37'	0 1'	4 50'
S 12	17 50'	17 19'	2 18'	23 50'	2 11'	10 27'	1 30'	17 20'	0 4'	20 23'	0 38'	21 41'	0 4'	22 37'	0 1'	4 50'
S 13	18 6'	12 44'	3 20'	23 37'	2 0'	10 54'	1 29'	17 32'	0 3'	20 25'	0 38'	21 40'	0 4'	22 37'	0 1'	4 49'
M14	18 21'	7 25'	4 12'	23 19'	1 47'	11 20'	1 28'	17 44'	0 3'	20 28'	0 38'	21 40'	0 4'	22 36'	0 1'	4 49'
T 15	18 36'	1 37'	4 48'	22 59'	1 32'	11 47'	1 27'	17 55'	0 2'	20 30'	0 38'	21 39'	0 4'	22 36'	0 1'	4 48'
W16	18 51'	4s19'	5 7'	22 35'	1 16'	12 12'	1 26'	18 7'	0 2'	20 32'	0 38'	21 38'	0 4'	22 36'	0 1'	4 48'
T 17	19 6'	10 5'	5 7'	22 8'	0 58'	12 38'	1 24'	18 18'	0 1'	20 35'	0 38'	21 38'	0 4'	22 36'	0 1'	4 48'
F 18	19 20'	15 18'	4 46'	21 38'	0 39'	13 3'	1 23'	18 29'	0 0'	20 37'	0 38'	21 37'	0 5'	22 35'	0 1'	4 47'
S 19	19 34'	19 36'	4 7'	21 5'	0 19'	13 28'	1 22'	18 40'	0s 0'	20 40'	0 38'	21 36'	0 5'	22 35'	0 1'	4 47'
S 20	19 48'	22 39'	3 13'	20 30'	0n 1'	13 53'	1 21'	18 51'	0 1'	20 42'	0 38'	21 35'	0 5'	22 35'	0 1'	4 46'
M21	20 1'	24 14'	2 8'	19 53'	0 22'	14 17'	1 19'	19 2'	0 1'	20 44'	0 37'	21 35'	0 5'	22 35'	0 0'	4 46'
T 22	20 14'	24 16'	0 57'	19 16'	0 42'	14 41'	1 18'	19 13'	0 2'	20 47'	0 37'	21 34'	0 5'	22 34'	0 0'	4 46'
W23	20 26'	22 53'	0n16'	18 40'	1 1'	15 5'	1 16'	19 23'	0 3'	20 49'	0 37'	21 33'	0 5'	22 34'	0 0'	4 45'
T 24	20 38'	20 18'	1 26'	18 5'	1 20'	15 28'	1 15'	19 33'	0 3'	20 51'	0 37'	21 32'	0 5'	22 34'	0 0'	4 45'
F 25	20 50'	16 49'	2 29'	17 33'	1 36'	15 51'	1 13'	19 44'	0 4'	20 54'	0 37'	21 31'	0 5'	22 34'	0 0'	4 44'
S 26	21 1'	12 41'	3 25'	17 5'	1 51'	16 13'	1 11'	19 53'	0 4'	20 56'	0 37'	21 31'	0 5'	22 33'	0 0'	4 44'
S 27	21 12'	8 8'	4 10'	16 41'	2 3'	16 35'	1 10'	20 3'	0 5'	20 58'	0 37'	21 30'	0 5'	22 33'	0 0'	4 44'
M28	21 23'	3 20'	4 43'	16 22'	2 14'	16 57'	1 8'	20 13'	0 6'	21 0'	0 37'	21 29'	0 5'	22 33'	0 0'	4 43'
T 29	21 33'	1n34'	5 5'	16 7'	2 22'	17 18'	1 6'	20 22'	0 6'	21 3'	0 37'	21 28'	0 5'	22 33'	0 0'	4 43'
W30	21s42'	6n24'	5n13'	15s58'	2n28'	17s38'	1n 4'	20s32'	0s 7'	21s 5'	0n37'	21s27'	0s 5'	22n32'	0s 0'	4n43'

Julian Day Number = 2523437.5, Delta T = 159.94 sec

Ecliptic obliquity = 23°24'51", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°29'28", Lahiri = 26°36'28"

ASTRODIENST EPHEMERIS for the year 2196  
geocentric

DECEMBER 2196

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 42 45	9♌33'54	16♍1	22°D21	24♎56	2♌6	8♌38	23♏39	14°R43	15°R44	20°R 2	5°R29	6♏29	25♌42	4♎16	T 1
F 2	4 46 42	10°34'39	28° 8	22♎29	26°12	2°48	8°52	23°45	14♎40	15°Y43	20♎2	5♏24	6°26	25°48	4°23	F 2
S 3	4 50 38	11°35'25	10♏28	22°46	27°27	3°31	9° 5	23°50	14°38	15°42	20° 2	5°20	6°23	25°55	4°31	S 3
S 4	4 54 35	12°36'12	23° 1	23°12	28°42	4°13	9°18	23°56	14°35	15°41	20° 1	5°16	6°20	26° 2	4°39	S 4
M 5	4 58 31	13°37'00	5♎49	23°47	29°58	4°56	9°32	24° 2	14°33	15°41	20° 1	5°13	6°17	26° 9	4°46	M 5
T 6	5 2 28	14°37'49	18°52	24°29	1♌13	5°39	9°45	24° 8	14°30	15°40	20° 1	5°11	6°13	26°15	4°54	T 6
W 7	5 6 25	15°38'39	2♏10	25°17	2°28	6°21	9°59	24°14	14°28	15°39	20° 0	5°D11	6°10	26°22	5° 1	W 7
T 8	5 10 21	16°39'31	15°40	26°10	3°44	7° 4	10°12	24°20	14°25	15°39	20° 0	5°11	6° 7	26°29	5° 8	T 8
F 9	5 14 18	17°40'24	29°21	27° 9	4°59	7°47	10°25	24°27	14°23	15°38	19°59	5°12	6° 4	26°35	5°16	F 9
S 10	5 18 14	18°41'17	13♎13	28°12	6°15	8°30	10°39	24°33	14°20	15°38	19°59	5°13	6° 1	26°42	5°23	S 10
S 11	5 22 11	19°42'12	27°12	29°19	7°30	9°12	10°52	24°39	14°18	15°37	19°58	5°14	5°58	26°49	5°30	S 11
M12	5 26 7	20°43'09	11♎18	0♌29	8°45	9°55	11° 6	24°45	14°15	15°37	19°57	5°15	5°54	26°56	5°37	M12
T 13	5 30 4	21°44'06	25°28	1°42	10° 1	10°38	11°19	24°51	14°13	15°36	19°57	5°R15	5°51	27° 2	5°44	T 13
W14	5 34 1	22°45'05	9♎41	2°57	11°16	11°21	11°32	24°58	14°10	15°36	19°56	5°15	5°48	27° 9	5°51	W14
T 15	5 37 57	23°46'05	23°54	4°14	12°32	12° 4	11°46	25° 4	14° 8	15°35	19°56	5°14	5°45	27°16	5°58	T 15
F 16	5 41 54	24°47'05	8♎4	5°34	13°47	12°48	11°59	25°11	14° 5	15°35	19°55	5°13	5°42	27°23	6° 5	F 16
S 17	5 45 50	25°48'07	22° 8	6°55	15° 3	13°31	12°12	25°17	14° 3	15°35	19°54	5°11	5°39	27°29	6°12	S 17
S 18	5 49 47	26°49'10	6♌2	8°17	16°18	14°14	12°25	25°24	14° 0	15°34	19°53	5°10	5°35	27°36	6°19	S 18
M19	5 53 43	27°50'14	19°43	9°40	17°34	14°57	12°39	25°30	13°58	15°34	19°53	5°10	5°32	27°43	6°25	M19
T 20	5 57 40	28°51'19	3♏9	11° 5	18°49	15°41	12°52	25°37	13°55	15°34	19°52	5°D 9	5°29	27°49	6°32	T 20
W21	6 1 36	29°52'24	16°18	12°30	20° 5	16°24	13° 5	25°43	13°53	15°34	19°51	5° 9	5°26	27°56	6°38	W21
T 22	6 5 33	0♏53'30	29° 9	13°56	21°20	17° 7	13°18	25°50	13°50	15°34	19°50	5°10	5°23	28° 3	6°45	T 22
F 23	6 9 30	1°54'36	11♎43	15°23	22°36	17°51	13°31	25°57	13°48	15°33	19°49	5°10	5°20	28°10	6°51	F 23
S 24	6 13 26	2°55'42	24° 1	16°51	23°51	18°34	13°44	26° 3	13°46	15°33	19°49	5°10	5°16	28°16	6°57	S 24
S 25	6 17 23	3°56'48	6♌7	18°19	25° 7	19°18	13°57	26°10	13°43	15°33	19°48	5°11	5°13	28°23	7° 4	S 25
M26	6 21 19	4°57'55	18° 4	19°48	26°22	20° 1	14°10	26°17	13°41	15°D33	19°47	5°R11	5°10	28°30	7°10	M26
T 27	6 25 16	5°59'02	29°57	21°17	27°37	20°45	14°23	26°24	13°39	15°33	19°46	5°D11	5° 7	28°37	7°16	T 27
W28	6 29 12	7° 0'09	11°Y50	22°46	28°53	21°29	14°36	26°31	13°36	15°33	19°45	5°11	5° 4	28°43	7°22	W28
T 29	6 33 9	8° 1'16	23°48	24°16	0♏8	22°12	14°49	26°37	13°34	15°33	19°44	5°11	5° 0	28°50	7°28	T 29
F 30	6 37 5	9° 2'23	5♌55	25°47	1°24	22°56	15° 2	26°44	13°32	15°33	19°43	5°11	4°57	28°57	7°33	F 30
S 31	6 41 2	10♏3'31	18♏16	27♌17	2♏39	23♌40	15♌15	26♏51	13♎30	15°Y34	19♎42	5♏12	4♏54	29♌3	7♎39	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s52	11n 2	5n 8	15s53	2n33	17s58	1n 2	20s41	0s 7	21s 7	0n37	21s26	0s 5	22n32	0s 0	4n43	1s36	22n 2	7n39	23s18	23s15	2n56	13s 1	0s 6
F 2	22 1 15 18	4 49	15 52	2 35	18 18	1 0	20 50	0 8	21 9	0 37	21 25	0 6	22 32	0 0	4 42	1 36	22 2	7 39	23 18	23 15	2 59	13 3	0 5	
S 3	22 9 19 0	4 17	15 55	2 36	18 37	0 58	20 58	0 9	21 11	0 37	21 24	0 6	22 31	0 0	4 42	1 36	22 3	7 40	23 18	23 16	3 2	13 6	0 5	
S 4	22 17 21 55	3 31	16 2	2 36	18 56	0 56	21 7	0 9	21 13	0 36	21 23	0 6	22 31	0 0	4 42	1 36	22 3	7 40	23 19	23 16	3 4	13 8	0 5	
M 5	22 25 23 48	2 35	16 12	2 34	19 14	0 54	21 15	0 10	21 15	0 36	21 22	0 6	22 31	0 0	4 42	1 36	22 4	7 40	23 19	23 16	3 7	13 10	0 5	
T 6	22 32 24 25	1 29	16 25	2 32	19 32	0 52	21 24	0 10	21 17	0 36	21 21	0 6	22 31	0 0	4 41	1 36	22 4	7 41	23 19	23 16	3 10	13 12	0 4	
W 7	22 38 23 40	0 17	16 40	2 28	19 49	0 50	21 32	0 11	21 20	0 36	21 20	0 6	22 30	0 0	4 41	1 36	22 4	7 41	23 19	23 16	3 13	13 15	0 4	
T 8	22 45 21 33	0s58	16 56	2 24	20 5	0 48	21 39	0 12	21 22	0 36	21 19	0 6	22 30	0 0	4 41	1 36	22 5	7 41	23 19	23 16	3 16	13 17	0 4	
F 9	22 51 18 9	2 10	17 15	2 19	20 21	0 46	21 47	0 12	21 24	0 36	21 18	0 6	22 30	0 0	4 41	1 35	22 5	7 41	23 19	23 16	3 18	13 19	0 3	
S 10	22 56 13 43	3 15	17 34	2 13	20 37	0 44	21 55	0 13	21 25	0 36	21 17	0 6	22 29	0 0	4 41	1 35	22 6	7 42	23 19	23 17	3 21	13 21	0 3	
S 11	23 1 8 31	4 9	17 55	2 7	20 51	0 41	22 2	0 13	21 27	0 36	21 16	0 6	22 29	0 0	4 40	1 35	22 6	7 42	23 19	23 17	3 24	13 23	0 3	
M12	23 5 2 52	4 49	18 15	2 1	21 6	0 39	22 9	0 14	21 29	0 36	21 15	0 6	22 29	0 0	4 40	1 35	22 6	7 42	23 19	23 17	3 27	13 25	0 2	
T 13	23 9 2s58	5 12	18 37	1 54	21 19	0 37	22 16	0 15	21 31	0 36	21 14	0 6	22 29	0 0	4 40	1 35	22 7	7 42	23 19	23 17	3 29	13 27	0 2	
W14	23 13 8 40	5 15	18 58	1 47	21 32	0 35	22 22	0 15	21 33	0 36	21 13	0 6	22 28	0 0	4 40	1 35	22 7	7 43	23 19	23 17	3 32	13 29	0 2	
T 15	23 16 13 54	5 0	19 20	1 40	21 44	0 32	22 29	0 16	21 35	0 36	21 12	0 6	22 28	0 0	4 40	1 35	22 8	7 43	23 19	23 17	3 35	13 31	0 2	
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T 29	23 10 13 53	5 1	23 24	0s 6	23 26	0s 1	23 36	0 24	21 58	0 35	20 56	0 7	22 24	0 0	4 40	1 35	22 15	7 46	23 19	23 19	4 14	13 56	0 3	
F 30	23 6 17 46	4 33	23 34	0 14	23 28	0 4	23 39	0 25	22 0	0 35	20 54	0 7	22 24	0 0	4 40	1 34	22 15	7 47	23 19	23 19	4 17	13 58	0 3	
S 31	23s 2	20n58	3n52	23s44	0s21	23s30	0s 6	23s41	0s26	22s 1	0n35	20s53	0s 7	22n24	0s 0	4n40	1s34	22n16	7n47	23s19	23s19	4n19	14s 0	0n 4