



Astrodienst Ephemeris Tables for the year 2290

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 2290

geocentric

JANUARY 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 42 55	10°39'09"	1°49'49"	8°39'09"	28°35'57"	13°18'33"	29°00'00"	17°18'20"	26°17'17"	14°14'14"	0°18'18"	6°23'23"	6°11'11"	3°11'11"	28°28'28"	W 1
T 2	6 46 52	11°30'15"	13°53'53"	9°44'44"	0°12'12"	13°17'17"	29°07'07"	17°25'25"	26°15'15"	14°03'03"	0°19'19"	6°22'22"	6°07'07"	3°17'17"	28°26'26"	T 2
F 3	6 50 48	12°31'22"	25°50'50"	11°19'19"	1°27'27"	13°32'32"	29°15'15"	17°29'29"	26°12'12"	14°04'04"	0°20'20"	6°22'22"	6°04'04"	3°24'24"	28°24'24"	F 3
S 4	6 54 45	13°32'30"	7°43'43"	12°55'55"	2°42'42"	13°47'47"	29°22'22"	17°33'33"	26°10'10"	14°05'05"	0°22'22"	6°21'21"	6°01'01"	3°31'31"	28°21'21"	S 4
S 5	6 58 42	14°33'38"	19°36'36"	14°32'32"	3°57'57"	14°02'02"	29°29'29"	17°38'38"	26°07'07"	14°07'07"	0°23'23"	6°21'21"	5°58'58"	3°37'37"	28°19'19"	S 5
M 6	7 2 38	15°34'47"	1°13'35"	16°08'08"	5°12'12"	14°18'18"	29°36'36"	17°43'43"	26°05'05"	14°08'08"	0°24'24"	6°22'22"	5°55'55"	3°44'44"	28°16'16"	M 6
T 7	7 6 35	16°35'55"	13°44'44"	17°45'45"	6°28'28"	14°35'35"	29°43'43"	17°47'47"	26°02'02"	14°09'09"	0°25'25"	6°23'23"	5°52'52"	3°51'51"	28°13'13"	T 7
W 8	7 10 31	17°37'05"	26°07'07"	19°22'22"	7°43'43"	14°52'52"	29°50'50"	17°52'52"	26°00'00"	14°11'11"	0°27'27"	6°24'24"	5°48'48"	3°58'58"	28°11'11"	W 8
T 9	7 14 28	18°38'14"	8°48'48"	21°00'00"	8°58'58"	15°09'09"	29°56'56"	17°57'57"	25°57'57"	14°12'12"	0°28'28"	6°25'25"	5°45'45"	4°04'04"	28°08'08"	T 9
F 10	7 18 24	19°39'24"	21°50'50"	22°38'38"	10°13'13"	15°27'27"	0°13'13"	18°02'02"	25°55'55"	14°13'13"	0°30'30"	6°26'26"	5°42'42"	4°11'11"	28°05'05"	F 10
S 11	7 22 21	20°40'34"	5°31'31"	24°16'16"	11°28'28"	15°46'46"	0°09'09"	18°07'07"	25°52'52"	14°14'14"	0°31'31"	6°26'26"	5°39'39"	4°18'18"	28°02'02"	S 11
S 12	7 26 17	21°41'43"	18°57'57"	25°55'55"	12°43'43"	16°05'05"	0°15'15"	18°12'12"	25°49'49"	14°15'15"	0°32'32"	6°26'26"	5°36'36"	4°25'25"	27°59'59"	S 12
M13	7 30 14	22°42'53"	2°59'59"	27°34'34"	13°58'58"	16°24'24"	0°21'21"	18°17'17"	25°47'47"	14°16'16"	0°34'34"	6°25'25"	5°33'33"	4°31'31"	27°55'55"	M13
T 14	7 34 11	23°44'02"	17°15'15"	29°13'13"	15°12'12"	16°44'44"	0°27'27"	18°22'22"	25°44'44"	14°17'17"	0°35'35"	6°23'23"	5°29'29"	4°38'38"	27°52'52"	T 14
W15	7 38 07	24°45'11"	1°40'40"	0°53'53"	16°27'27"	17°04'04"	0°33'33"	18°28'28"	25°41'41"	14°18'18"	0°37'37"	6°20'20"	5°26'26"	4°45'45"	27°49'49"	W15
T 16	7 42 04	25°46'20"	16°09'09"	2°33'33"	17°42'42"	17°25'25"	0°38'38"	18°33'33"	25°39'39"	14°19'19"	0°38'38"	6°17'17"	5°23'23"	4°51'51"	27°45'45"	T 16
F 17	7 46 00	26°47'28"	0°13'13"	4°13'13"	18°57'57"	17°46'46"	0°44'44"	18°38'38"	25°36'36"	14°20'20"	0°40'40"	6°15'15"	5°20'20"	4°58'58"	27°42'42"	F 17
S 18	7 49 57	27°48'35"	14°55'55"	5°54'54"	20°12'12"	18°07'07"	0°49'49"	18°44'44"	25°34'34"	14°21'21"	0°41'41"	6°14'14"	5°17'17"	5°05'05"	27°38'38"	S 18
S 19	7 53 53	28°49'41"	29°05'05"	7°35'35"	21°27'27"	18°29'29"	0°54'54"	18°49'49"	25°31'31"	14°22'22"	0°43'43"	6°13'13"	5°13'13"	5°12'12"	27°35'35"	S 19
M20	7 57 50	29°50'47"	13°18'18"	9°16'16"	22°42'42"	18°51'51"	0°59'59"	18°55'55"	25°28'28"	14°23'23"	0°44'44"	6°14'14"	5°10'10"	5°18'18"	27°31'31"	M20
T 21	8 1 46	0°51'53"	26°51'51"	10°57'57"	23°57'57"	19°14'14"	1°03'03"	19°01'01"	25°26'26"	14°24'24"	0°46'46"	6°15'15"	5°07'07"	5°25'25"	27°27'27"	T 21
W22	8 5 43	1°52'57"	10°12'25"	12°38'38"	25°11'11"	19°36'36"	1°08'08"	19°07'07"	25°23'23"	14°25'25"	0°47'47"	6°17'17"	5°04'04"	5°32'32"	27°23'23"	W22
T 23	8 9 40	2°54'01"	23°47'47"	14°19'19"	26°26'26"	20°00'00"	1°12'12"	19°12'12"	25°21'21"	14°26'26"	0°49'49"	6°18'18"	5°01'01"	5°38'38"	27°19'19"	T 23
F 24	8 13 36	3°55'04"	6°57'57"	16°00'00"	27°41'41"	20°23'23"	1°17'17"	19°18'18"	25°18'18"	14°26'26"	0°50'50"	6°19'19"	4°58'58"	5°45'45"	27°15'15"	F 24
S 25	8 17 33	4°56'06"	19°54'54"	17°40'40"	28°56'56"	20°47'47"	1°21'21"	19°24'24"	25°16'16"	14°27'27"	0°52'52"	6°18'18"	4°54'54"	5°52'52"	27°11'11"	S 25
S 26	8 21 29	5°57'08"	2°14'40"	19°20'20"	0°10'10"	21°11'11"	1°24'24"	19°30'30"	25°13'13"	14°28'28"	0°53'53"	6°15'15"	4°51'51"	5°59'59"	27°07'07"	S 26
M27	8 25 26	6°58'09"	15°14'14"	20°59'59"	1°25'25"	21°35'35"	1°28'28"	19°36'36"	25°10'10"	14°28'28"	0°55'55"	6°11'11"	4°48'48"	6°05'05"	27°03'03"	M27
T 28	8 29 22	7°59'09"	27°36'36"	22°37'37"	2°40'40"	22°00'00"	1°32'32"	19°42'42"	25°08'08"	14°29'29"	0°57'57"	6°06'06"	4°45'45"	6°12'12"	26°59'59"	T 28
W29	8 33 19	9°00'09"	9°14'14"	24°14'14"	3°54'54"	22°25'25"	1°35'35"	19°48'48"	25°05'05"	14°30'30"	0°58'58"	6°00'00"	4°42'42"	6°19'19"	26°55'55"	W29
T 30	8 37 16	10°1'08"	21°50'50"	25°49'49"	5°09'09"	22°50'50"	1°38'38"	19°55'55"	25°03'03"	14°30'30"	1°00'00"	5°54'54"	4°39'39"	6°26'26"	26°50'50"	T 30
F 31	8 41 12	11°2'06"	3°46'46"	27°22'22"	6°13'23"	23°16'16"	1°41'41"	20°18'18"	25°00'00"	14°31'31"	1°01'01"	5°48'48"	4°35'35"	6°32'32"	26°46'46"	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
W 1	22s59	6n44	4s21	24s39	1s30	21s43	1s25	17n12	1n33	9s57	1n14	6s50	2s 0	21n23	0n32	14s23	1n43	21s 2	10s23	23s15	23s15	5s59	5n24	7s 1					
T 2	22 54	1 49	4 53	24 37	1 34	21 28	1 26	17 18	1 34	10 0	1 14	6 48	2 0	21 23	0 32	14 24	1 43	21 2	10 23	23 15	23 16	6 1	5 24	7 1					
F 3	22 49	3s 7	5 12	24 33	1 38	21 13	1 27	17 23	1 35	10 2	1 14	6 46	2 0	21 24	0 32	14 24	1 43	21 1	10 23	23 15	23 16	6 4	5 25	7 2					
S 4	22 43	7 54	5 17	24 29	1 43	20 57	1 28	17 28	1 35	10 4	1 14	6 45	2 0	21 24	0 32	14 24	1 43	21 1	10 23	23 15	23 16	6 7	5 25	7 2					
S 5	22 36	12 25	5 9	24 22	1 46	20 41	1 29	17 34	1 36	10 7	1 14	6 43	1 59	21 25	0 32	14 25	1 43	21 0	10 23	23 15	23 16	6 9	5 25	7 3					
M 6	22 30	16 29	4 47	24 15	1 50	20 24	1 30	17 39	1 37	10 9	1 15	6 41	1 59	21 25	0 32	14 25	1 43	20 59	10 22	23 15	23 16	6 12	5 26	7 3					
T 7	22 22	19 56	4 12	24 6	1 53	20 6	1 31	17 45	1 38	10 11	1 15	6 39	1 59	21 26	0 32	14 25	1 43	20 59	10 22	23 15	23 16	6 15	5 26	7 3					
W 8	22 15	22 34	3 25	23 55	1 56	19 48	1 32	17 50	1 39	10 13	1 15	6 37	1 59	21 26	0 32	14 26	1 43	20 58	10 22	23 15	23 16	6 17	5 27	7 4					
T 9	22 6	24 9	2 27	23 43	1 59	19 29	1 33	17 56	1 39	10 16	1 15	6 35	1 59	21 27	0 32	14 26	1 43	20 58	10 22	23 15	23 17	6 20	5 28	7 4					
F 10	21 58	24 29	1 20	23 30	2 1	19 9	1 33	18 2	1 40	10 18	1 15	6 33	1 59	21 27	0 32	14 26	1 43	20 57	10 22	23 15	23 17	6 23	5 28	7 5					
S 11	21 49	23 25	0 7	23 15	2 3	18 49	1 34	18 8	1 40	10 20	1 16	6 31	1 59	21 28	0 32	14 27	1 43	20 56	10 22	23 15	23 17	6 26	5 29	7 5					
S 12	21 39	20 56	1n 9	22 58	2 5	18 29	1 35	18 14	1 41	10 22	1 16	6 29	1 58	21 28	0 32	14 27	1 43	20 56	10 22	23 15	23 17	6 28	5 29	7 5					
M13	21 30	17 10	2 21	22 40	2 6	18 8	1 35	18 20	1 42	10 23	1 16	6 26	1 58	21 29	0 32	14 27	1 43	20 55	10 22	23 15	23 17	6 31	5 30	7 6					
T 14	21 19	12 21	3 27	22 21	2 7	17 46	1 36	18 27	1 42	10 25	1 16	6 24	1 58	21 29	0 32	14 27	1 43	20 55	10 21	23 15	23 17	6 34	5 31	7 6					
W15	21 9	6 49	4 19	22 0	2 7	17 24	1 36	18 33	1 43	10 27	1 17	6 22	1 58	21 30	0 32	14 28	1 43	20 54	10 21	23 15	23 17	6 36	5 32	7 7					
T 16	20 57	0 55	4 56	21 38	2 7	17 2	1 36	18 39	1 43	10 29	1 17	6 20	1 58	21 30	0 32	14 28	1 43	20 53	10 21	23 15	23 18	6 39	5 33	7 7					
F 17	20 46	5n 1	5 13	21 14	2 7	16 39	1 37	18 46	1 44	10 30	1 17	6 18	1 58	21 31	0 32	14 28	1 44	20 53	10 21	23 15	23 18	6 42	5 34	7 7					
S 18	20 34	10 39	5 11	20 48	2 6	16 15	1 37	18 52	1 44	10 32	1 17	6 15	1 58	21 31	0 32	14 28	1 44	20 52	10 21	23 15	23 18	6 44	5 34	7 8					
S 19	20 22	15 39	4 50	20 21	2 5	15 51	1 37	18 58	1 45	10 34	1 17	6 13	1 58	21 31	0 32	14 29	1 44	20 51	10 21	23 15	23 18	6 47	5 35	7 8					
M20	20 9	19 44	4 12	19 53	2 3	15 27	1 37	19 5	1 45	10 35	1 18	6 11	1 58	21 32	0 32	14 29	1 44	20 51	10 21	23 15	23 18	6 50	5 36	7 8					
T 21	19 56	22 40	3 20	19 23	2 0	15 2	1 37	19 12	1 45	10 36	1 18	6 9	1 57	21 32	0 32	14 29	1 44	20 50	10 21	23 15	23 18	6 52	5 37	7 8					
W22	19 43	24 15	2 17	18 52	1 57	14 37	1 37	19 18	1 46	10 38	1 18	6 6	1 57	21 33	0 32	14 29	1 44	20 49	10 21	23 15	23 18	6 55	5 38	7 9					
T 23	19 29	24 24	1 8	18 19	1 54	14 12	1 36	19 25	1 46	10 39	1 18	6 4	1 57	21 33	0 32	14 29	1 44	20 49	10 21	23 15	23 18	6 58	5 40	7 9					
F 24	19 15	23 10	0s 3	17 45	1 49	13 46	1 36	19 31	1 46	10 40	1 18	6 1	1 57	21 34	0 32	14 29	1 44	20 48	10 21	23 15	23 19	7 0	5 41	7 9					
S 25	19 0	20 43	1 14	17 10	1 44	13 20	1 36	19 38	1 47	10 42	1 19	5 59	1 57	21 34	0 32	14 30	1 44	20 48	10 20	23 15	23 19	7 3	5 42	7 9					
S 26	18 45	17 16	2 19	16 34	1 39	12 53	1 35	19 45	1 47	10 43	1 19	5 57	1 57	21 35	0 32	14 30	1 44	20 47	10 20	23 15	23 19	7 6	5 43	7 9					
M27	18 30	13 6	3 17	15 56	1 32	12 26	1 35	19 51	1 47	10 44	1 19	5 54	1 57	21 35	0 32	14 30	1 44	20 46	10 20	23 15	23 19	7 8	5 44	7 10					
T 28	18 15	8 28	4 4	15 18	1 25	11 59	1 34	19 58	1 47	10 45	1 19	5 52	1 57	21 36	0 32	14 30	1 44	20 46	10 20	23 16	23 19	7 11	5 45	7 10					
W29	17 59	3 34	4 39	14 39	1 18	11 31	1 34	20 5	1 48	10 46	1 20	5 49	1 57	21 36	0 32	14 30	1 44	20 45	10 20	23 16	23 19	7 14	5 47	7 10					
T 30	17 43	1s23	5 2	13 59	1 9	11 3	1 33	20 12	1 48	10 46	1 20	5 47	1 57	21 37	0 32	14 30	1 44	20 44	10 20	23 16	23 19	7 16	5 48	7 10					
F 31	17s26	6s15	5s11	13s18	1s 0	10s35	1s32	20n18	1n48	10s47	1n20	5s44	1s57	21n37	0n32	14s30	1n44	20s44	10s20	23s16	23s19	7s19	5n49	7s10					

ASTRODIENST EPHEMERIS for the year 2290
geocentric

FEBRUARY 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 45 9	12♈3'04	15♊38	28♈52	7♈38	23♈42	1♈44	20♈7	24°R58	14♈31	1♈3	5°R43	4♈32	6♈39	26°R41	S 1
S 2	8 49 5	13°4'01	27°30	0♈20	8°52	24°8	1°46	20°14	24♈55	14°32	1°5	5♈40	4°29	6°46	26♈37	S 2
M 3	8 53 2	14°4'57	9♈27	1°43	10°7	24°34	1°49	20°20	24°53	14°32	1°6	5°D39	4°26	6°52	26°33	M 3
T 4	8 56 58	15°5'53	21°32	3°3	11°21	25°0	1°51	20°27	24°51	14°32	1°8	5°39	4°23	6°59	26°28	T 4
W 5	9 0 55	16°6'48	3♈52	4°17	12°35	25°27	1°53	20°33	24°48	14°33	1°10	5°40	4°19	7°6	26°24	W 5
T 6	9 4 51	17°7'42	16°31	5°25	13°50	25°54	1°55	20°40	24°46	14°33	1°11	5°41	4°16	7°13	26°19	T 6
F 7	9 8 48	18°8'36	29°33	6°27	15°4	26°22	1°57	20°46	24°44	14°33	1°13	5°R43	4°13	7°19	26°14	F 7
S 8	9 12 45	19°9'29	13♈1	7°22	16°18	26°49	1°58	20°53	24°41	14°33	1°15	5°42	4°10	7°26	26°10	S 8
S 9	9 16 41	20°10'21	26°55	8°8	17°33	27°17	2°0	21°0	24°39	14°34	1°16	5°41	4°7	7°33	26°5	S 9
M10	9 20 38	21°11'12	11♈15	8°46	18°47	27°45	2°1	21°6	24°37	14°34	1°18	5°36	4°4	7°40	26°1	M10
T 11	9 24 34	22°12'02	25°55	9°14	20°1	28°13	2°2	21°13	24°34	14°34	1°20	5°30	4°0	7°46	25°56	T 11
W12	9 28 31	23°12'50	10♈48	9°32	21°15	28°41	2°2	21°20	24°32	14°34	1°22	5°23	3°57	7°53	25°51	W12
T 13	9 32 27	24°13'37	25°46	9°R39	22°29	29°10	2°3	21°27	24°30	14°34	1°23	5°15	3°54	8°0	25°47	T 13
F 14	9 36 24	25°14'23	10♈38	9°36	23°43	29°38	2°3	21°34	24°28	14°R34	1°25	5°8	3°51	8°6	25°42	F 14
S 15	9 40 20	26°15'07	25°19	9°21	24°57	0♈1	2°R4	21°40	24°26	14°34	1°27	5°2	3°48	8°13	25°37	S 15
S 16	9 44 17	27°15'50	9♈41	8°57	26°11	0°36	2°4	21°47	24°24	14°34	1°28	4°58	3°45	8°20	25°33	S 16
M17	9 48 13	28°16'31	23°43	8°22	27°25	1°6	2°3	21°54	24°22	14°34	1°30	4°D57	3°41	8°27	25°28	M17
T 18	9 52 10	29°17'11	7♈23	7°38	28°39	1°35	2°3	22°1	24°20	14°34	1°32	4°57	3°38	8°33	25°23	T 18
W19	9 56 7	0♈17'49	20°45	6°46	29°53	2°5	2°2	22°8	24°18	14°34	1°34	4°58	3°35	8°40	25°19	W19
T 20	10 0 3	1°18'25	3♈49	5°47	1°Y7	2°35	2°2	22°15	24°16	14°34	1°35	4°R59	3°32	8°47	25°14	T 20
F 21	10 4 0	2°18'59	16°38	4°43	2°20	3°4	2°1	22°23	24°14	14°33	1°37	4°58	3°29	8°53	25°9	F 21
S 22	10 7 56	3°19'32	29°16	3°37	3°34	3°35	1°59	22°30	24°12	14°33	1°39	4°55	3°25	9°0	25°5	S 22
S 23	10 11 53	4°20'03	11♈43	2°28	4°48	4°5	1°58	22°37	24°10	14°33	1°41	4°49	3°22	9°7	25°0	S 23
M24	10 15 49	5°20'32	24°1	1°21	6°1	4°35	1°57	22°44	24°8	14°33	1°42	4°41	3°19	9°14	24°55	M24
T 25	10 19 46	6°21'00	6♈11	0°15	7°15	5°6	1°55	22°51	24°7	14°32	1°44	4°31	3°16	9°20	24°51	T 25
W26	10 23 42	7°21'26	18°15	29♈13	8°28	5°36	1°53	22°58	24°5	14°32	1°46	4°18	3°13	9°27	24°46	W26
T 27	10 27 39	8°21'51	0♈13	28°15	9°42	6°7	1°51	23°6	24°3	14°31	1°47	4°6	3°10	9°34	24°42	T 27
F 28	10 31 36	9♈22'14	12♈7	27♈24	10°Y55	6♈38	1♈49	23♈13	24♈2	14♈31	1♈49	3♈54	3♈6	9♈41	24♈37	F 28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	17s 9	10s15	5s 6	12s37	0s49	10s 7	1s31	20n25	1n48	10s48	1n20	5s42	1s56	21n38	0n32	14s30
S 2	16 52	15 3	4 49	11 56	0 38	9 38	1 30	20 32	1 48	10 49	1 21	5 39	1 56	21 38	0 32	14 30
M 3	16 35	18 42	4 19	11 16	0 27	9 9	1 29	20 38	1 49	10 49	1 21	5 36	1 56	21 38	0 32	14 30
T 4	16 17	21 36	3 37	10 35	0 14	8 40	1 28	20 45	1 49	10 50	1 21	5 34	1 56	21 39	0 32	14 31
W 5	15 59	23 35	2 44	9 56	0 0	8 10	1 27	20 51	1 49	10 50	1 21	5 31	1 56	21 39	0 32	14 31
T 6	15 41	24 25	1 42	9 18	0n14	7 40	1 26	20 58	1 49	10 51	1 21	5 29	1 56	21 40	0 32	14 31
F 7	15 22	23 57	0 33	8 41	0 29	7 11	1 25	21 5	1 49	10 51	1 22	5 26	1 56	21 40	0 32	14 31
S 8	15 3	22 7	0n39	8 6	0 44	6 41	1 23	21 11	1 49	10 51	1 22	5 23	1 56	21 41	0 32	14 31
S 9	14 44	18 54	1 52	7 34	1 1	6 10	1 22	21 18	1 49	10 52	1 22	5 21	1 56	21 41	0 32	14 31
M10	14 25	14 29	3 0	7 5	1 17	5 40	1 20	21 24	1 49	10 52	1 22	5 18	1 56	21 41	0 32	14 31
T 11	14 5	9 8	3 57	6 39	1 34	5 9	1 19	21 31	1 49	10 52	1 23	5 15	1 56	21 42	0 32	14 31
W12	13 46	3 11	4 39	6 17	1 50	4 39	1 17	21 37	1 50	10 52	1 23	5 12	1 56	21 42	0 32	14 31
T 13	13 26	2n57	5 3	5 59	2 7	4 8	1 15	21 43	1 50	10 52	1 23	5 10	1 56	21 42	0 32	14 31
F 14	13 5	8 53	5 5	5 45	2 23	3 37	1 14	21 50	1 50	10 52	1 23	5 7	1 56	21 43	0 32	14 31
S 15	12 45	14 14	4 48	5 36	2 38	3 6	1 12	21 56	1 50	10 52	1 24	5 4	1 56	21 43	0 32	14 30
S 16	12 24	18 41	4 13	5 32	2 52	2 35	1 10	22 2	1 50	10 52	1 24	5 1	1 56	21 44	0 32	14 30
M17	12 3	21 57	3 23	5 33	3 5	2 4	1 8	22 8	1 50	10 51	1 24	4 59	1 56	21 44	0 32	14 30
T 18	11 42	23 51	2 22	5 39	3 17	1 33	1 6	22 14	1 50	10 51	1 24	4 56	1 56	21 44	0 32	14 30
W19	11 21	24 20	1 16	5 49	3 26	1 1	1 4	22 20	1 50	10 50	1 24	4 53	1 56	21 45	0 32	14 30
T 20	11 0	23 27	0 6	6 4	3 34	0 30	1 2	22 26	1 50	10 50	1 25	4 50	1 55	21 45	0 32	14 30
F 21	10 38	21 20	1s 2	6 22	3 39	0n 1	0 59	22 32	1 50	10 49	1 25	4 47	1 55	21 45	0 32	14 30
S 22	10 16	18 13	2 6	6 43	3 42	0 33	0 57	22 38	1 50	10 49	1 25	4 45	1 55	21 46	0 32	14 30
S 23	9 54	14 19	3 3	7 7	3 42	1 4	0 55	22 43	1 49	10 48	1 25	4 42	1 55	21 46	0 32	14 30
M24	9 32	9 52	3 50	7 32	3 41	1 35	0 52	22 49	1 49	10 47	1 26	4 39	1 55	21 46	0 32	14 29
T 25	9 10	5 5	4 27	7 59	3 37	2 7	0 50	22 54	1 49	10 47	1 26	4 36	1 55	21 47	0 32	14 29
W26	8 48	0 10	4 51	8 26	3 31	2 38	0 47	23 0	1 49	10 46	1 26	4 33	1 55	21 47	0 32	14 29
T 27	8 25	4s42	5 2	8 53	3 23	3 9	0 45	23 5	1 49	10 45	1 26	4 30	1 55	21 47	0 32	14 29
F 28	8s 3	9s22	4s59	9s19	3n14	3n40	0s42	23n11	1n49	10s44	1n26	4s27	1s55	21n47	0n32	14s29

Julian Day Number = 2557496.5, Delta T = 280.15 sec
Ecliptic obliquity = 23°24'06, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 28°47'42, Lahiri = 27°54'42

ASTRODIENST EPHEMERIS for the year 2290

geocentric

MARCH 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 35 32	10 ^h 23'36	23 ^h 59	26°R38	12 ^h Y 8	7 ^h II 9	1°R46	23 ^h 20	24°R 0	14°R31	1 ^h 51	3°R43	3 ^h 3	9 ^h 47	24°R33	S 1
S 2	10 39 29	11°22'56	5 ^h 50	26 ^h 0	13°21	7°40	1 ^h 44	23°27	23 ^h 58	14 ^h 30	1°53	3 ^h 35	3° 0	9°54	24 ^h 029	S 2
M 3	10 43 25	12°23'15	17°46	25°28	14°35	8°12	1°41	23°35	23°57	14°30	1°54	3°29	2°57	10° 1	24°24	M 3
T 4	10 47 22	13°23'32	29°49	25° 4	15°48	8°43	1°38	23°42	23°56	14°29	1°56	3°26	2°54	10° 7	24°20	T 4
W 5	10 51 18	14°23'48	12 ^h 5	24°47	17° 1	9°15	1°35	23°49	23°54	14°28	1°58	3°D25	2°50	10°14	24°16	W 5
T 6	10 55 15	15°24'03	24°38	24°38	18°14	9°46	1°31	23°57	23°53	14°28	1°59	3°26	2°47	10°21	24°11	T 6
F 7	10 59 11	16°24'16	7 ^h 34	24°D35	19°27	10°18	1°28	24° 4	23°52	14°27	2° 1	3°R26	2°44	10°28	24° 7	F 7
S 8	11 3 8	17°24'27	20°57	24°38	20°39	10°50	1°24	24°11	23°50	14°26	2° 3	3°25	2°41	10°34	24° 3	S 8
S 9	11 7 5	18°24'37	4 ^h 49	24°48	21°52	11°22	1°20	24°19	23°49	14°26	2° 4	3°21	2°38	10°41	23°59	S 9
M10	11 11 1	19°24'46	19°11	25° 4	23° 5	11°54	1°16	24°26	23°48	14°25	2° 6	3°15	2°35	10°48	23°55	M10
T 11	11 14 58	20°24'53	3 ^h 59	25°25	24°18	12°26	1°12	24°34	23°47	14°24	2° 8	3° 7	2°31	10°54	23°51	T 11
W12	11 18 54	21°24'57	19° 6	25°51	25°30	12°59	1° 8	24°41	23°46	14°23	2° 9	2°56	2°28	11° 1	23°47	W12
T 13	11 22 51	22°25'00	4 ^h Y23	26°22	26°43	13°31	1° 3	24°48	23°45	14°23	2°11	2°45	2°25	11° 8	23°43	T 13
F 14	11 26 47	23°25'02	19°37	26°57	27°55	14° 3	0°58	24°56	23°44	14°22	2°13	2°34	2°22	11°15	23°40	F 14
S 15	11 30 44	24°25'01	4 ^h 38	27°37	29° 7	14°36	0°53	25° 3	23°43	14°21	2°14	2°25	2°19	11°21	23°36	S 15
S 16	11 34 40	25°24'58	19°18	28°20	0 ^h 20	15° 9	0°48	25°11	23°42	14°20	2°16	2°19	2°16	11°28	23°32	S 16
M17	11 38 37	26°24'53	3 ^h II33	29° 8	1°32	15°42	0°43	25°18	23°41	14°19	2°17	2°15	2°12	11°35	23°29	M17
T 18	11 42 34	27°24'46	17°20	29°58	2°44	16°14	0°38	25°25	23°40	14°18	2°19	2°14	2° 9	11°42	23°25	T 18
W19	11 46 30	28°24'36	0 ^h 42	0 ^h 52	3°56	16°47	0°33	25°33	23°40	14°17	2°21	2°13	2° 6	11°48	23°22	W19
T 20	11 50 27	29°24'25	13°41	1°49	5° 8	17°20	0°27	25°40	23°39	14°16	2°22	2°13	2° 3	11°55	23°19	T 20
F 21	11 54 23	0 ^h Y24'11	26°22	2°48	6°20	17°54	0°21	25°48	23°38	14°15	2°24	2°12	2° 0	12° 2	23°15	F 21
S 22	11 58 20	1°23'54	8 ^h 48	3°50	7°32	18°27	0°15	25°55	23°38	14°14	2°25	2° 8	1°56	12° 8	23°12	S 22
S 23	12 2 16	2°23'36	21° 2	4°55	8°43	19° 0	0° 9	26° 2	23°37	14°13	2°27	2° 1	1°53	12°15	23° 9	S 23
M24	12 6 13	3°23'15	3 ^h 9	6° 2	9°55	19°33	0° 3	26°10	23°37	14°12	2°28	1°51	1°50	12°22	23° 6	M24
T 25	12 10 9	4°22'53	15° 9	7°11	11° 7	20° 7	29 ^h 57	26°17	23°36	14°11	2°30	1°39	1°47	12°29	23° 3	T 25
W26	12 14 6	5°22'28	27° 6	8°22	12°18	20°40	29°51	26°24	23°36	14° 9	2°31	1°25	1°44	12°35	23° 0	W26
T 27	12 18 3	6°22'01	9 ^h 0	9°36	13°29	21°14	29°44	26°32	23°36	14° 8	2°33	1°10	1°41	12°42	22°58	T 27
F 28	12 21 59	7°21'32	20°52	10°51	14°40	21°48	29°38	26°39	23°36	14° 7	2°34	0°56	1°37	12°49	22°55	F 28
S 29	12 25 56	8°21'01	2 ^h 44	12° 8	15°52	22°21	29°31	26°46	23°35	14° 6	2°36	0°44	1°34	12°55	22°53	S 29
S 30	12 29 52	9°20'29	14°39	13°27	17° 3	22°55	29°24	26°54	23°35	14° 4	2°37	0°34	1°31	13° 2	22°50	S 30
M31	12 33 49	10 ^h Y19'54	26 ^h 37	14 ^h 48	18 ^h 13	23 ^h II29	29 ^h 18	27 ^h 1	23 ^h 35	14 ^h 3	2 ^h 39	0 ^h 27	1 ^h 28	13 ^h 9	22 ^h 048	M31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7s40	13s41	4s44	9s44	3n 3	4n11	0s39	23n16	1n49	10s43	1n27	4s24	1s55	21n48	0n32	14s29	1n46	20s26	10s21	23s21	23s22	8s34	6n36	7s 6			
S 2	7 17	17 28	4 16	10 8	2 52	4 42	0 37	23 21	1 49	10 42	1 27	4 22	1 55	21 48	0 32	14 28	1 46	20 26	10 21	23 21	23 22	8 37	6 38	7 6			
M 3	6 54	20 35	3 37	10 30	2 39	5 13	0 34	23 26	1 49	10 41	1 27	4 19	1 55	21 48	0 32	14 28	1 46	20 25	10 21	23 21	23 22	8 39	6 40	7 6			
T 4	6 31	22 49	2 48	10 51	2 26	5 44	0 31	23 31	1 49	10 39	1 27	4 16	1 55	21 48	0 32	14 28	1 46	20 25	10 21	23 21	23 22	8 42	6 42	7 5			
W 5	6 8	24 2	1 51	11 9	2 13	6 14	0 28	23 35	1 49	10 38	1 28	4 13	1 55	21 49	0 32	14 28	1 46	20 24	10 21	23 21	23 22	8 44	6 44	7 5			
T 6	5 45	24 4	0 47	11 25	1 59	6 45	0 25	23 40	1 48	10 37	1 28	4 10	1 55	21 49	0 32	14 28	1 46	20 24	10 21	23 21	23 22	8 47	6 45	7 4			
F 7	5 21	22 49	0n22	11 39	1 45	7 15	0 22	23 45	1 48	10 35	1 28	4 7	1 55	21 49	0 32	14 27	1 46	20 23	10 21	23 21	23 22	8 49	6 47	7 4			
S 8	4 58	20 16	1 31	11 51	1 32	7 46	0 19	23 49	1 48	10 34	1 28	4 4	1 55	21 49	0 32	14 27	1 46	20 23	10 22	23 21	23 22	8 52	6 49	7 3			
S 9	4 35	16 28	2 38	12 1	1 18	8 16	0 16	23 54	1 48	10 32	1 28	4 1	1 55	21 49	0 31	14 27	1 46	20 22	10 22	23 22	23 23	8 54	6 51	7 3			
M10	4 11	11 37	3 37	12 8	1 4	8 45	0 13	23 58	1 48	10 31	1 28	3 58	1 55	21 50	0 31	14 27	1 47	20 22	10 22	23 22	23 23	8 57	6 52	7 2			
T 11	3 48	5 57	4 23	12 14	0 51	9 15	0 10	24 2	1 48	10 29	1 29	3 56	1 55	21 50	0 31	14 26	1 47	20 21	10 22	23 22	23 23	9 0	6 54	7 2			
W12	3 24	0n10	4 52	12 17	0 38	9 45	0 7	24 6	1 48	10 28	1 29	3 53	1 55	21 50	0 31	14 26	1 47	20 21	10 22	23 22	23 23	9 2	6 56	7 1			
T 13	3 0	6 20	5 0	12 18	0 26	10 14	0 3	24 10	1 48	10 26	1 29	3 50	1 56	21 50	0 31	14 26	1 47	20 20	10 22	23 22	23 23	9 5	6 58	7 1			
F 14	2 37	12 6	4 47	12 18	0 13	10 43	0 0	24 14	1 47	10 24	1 29	3 47	1 56	21 50	0 31	14 25	1 47	20 20	10 22	23 23	23 23	9 7	6 59	7 0			
S 15	2 13	17 3	4 15	12 16	0 2	11 12	0n 3	24 17	1 47	10 22	1 29	3 44	1 56	21 50	0 31	14 25	1 47	20 19	10 22	23 23	23 23	9 10	7 1	7 0			
S 16	1 49	20 50	3 26	12 11	0s10	11 40	0 6	24 21	1 47	10 20	1 30	3 41	1 56	21 50	0 31	14 25	1 47	20 19	10 23	23 23	23 23	9 12	7 3	6 59			
M17	1 25	23 12	2 25	12 5	0 21	12 8	0 10	24 24	1 47	10 18	1 30	3 38	1 56	21 51	0 31	14 24	1 47	20 18	10 23	23 23	23 23	9 15	7 4	6 59			
T 18	1 2	24 5	1 18	11 57	0 32	12 36	0 13	24 28	1 47	10 16	1 30	3 35	1 56	21 51	0 31	14 24	1 47	20 18	10 23	23 23	23 23	9 17	7 6	6 58			
W19	0 38	23 32	0 8	11 48	0 42	13 4	0 16	24 31	1 46	10 14	1 30	3 32	1 56	21 51	0 31	14 24	1 47	20 17	10 23	23 23	23 23	9 20	7 8	6 57			
T 20	0 14	21 42	1s 0	11 37	0 51	13 32	0 20	24 34	1 46	10 12	1 30	3 29	1 56	21 51	0 31	14 23	1 47	20 17	10 23	23 23	23 23	9 22	7 9	6 57			
F 21	0n10	18 49	2 4	11 24	1 1	13 59	0 23	24 37	1 46	10 10	1 30	3 27	1 56	21 51	0 31	14 23	1 47	20 17	10 23	23 23	23 23	9 25	7 11	6 56			
S 22	0 33	15 8	3 0	11 10	1 9	14 25	0 27	24 40	1 46	10 8	1 30	3 24	1 56	21 51	0 31	14 23	1 47	20 16	10 24	23 23	23 23	9 27	7 13	6 56			
S 23	0 57	10 52	3 47	10 54	1 18	14 52	0 30	24 42	1 46	10 6	1 31	3 21	1 56	21 51	0 31	14 22	1 47	20 16	10 24	23 23	23 23	9 30	7 14	6 55			
M24	1 21	6 14	4 23	10 37	1 26	15 18	0 34	24 45	1 45	10 4	1 31	3 18	1 56	21 51	0 31	14 22	1 47	20 15	10 24	23 23	23 23	9 32	7 16	6 54			
T 25	1 44	1 25	4 47	10 18	1 33	15 44	0 37	24 47	1 45	10 1	1 31	3 15	1 56	21 51	0 31	14 22	1 47	20 15	10 24	23 23	23 23	9 35	7 17	6 54			
W26	2 8	3s25	4 58	9 58	1 40	16 9	0 41	24 49	1 45	9 59	1 31	3 12	1 56	21 51	0 31	14 21	1 47	20 15	10 24	23 24	23 23	9 37	7 19	6 53			
T 27	2 31	8 6	4 57	9 36	1 46	16 34	0 44	24 51	1 45	9 57	1 31	3 9	1 56	21 51	0 31	14 21	1 47	20 14	10 25	23 24	23 23	9 40	7 20	6 52			
F 28	2 55	12 29	4 42	9 13	1 52	16 58	0 48	24 53	1 45	9 54	1 31	3 6	1 56	21 51	0 31	14 20	1 47	20 14	10 25	23 24	23 24	9 42	7 22	6 52			
S 29	3 18	16 23	4 15	8 49	1 58	17 22	0 51	24 55	1 44	9 52	1 31	3 4	1 56	21 51	0 31	14 20	1 47	20 13	10 25	23 24	23 24	9 44	7 23	6 51			
S 30	3 42	19 39	3 36	8 23	2 3	17 46	0 55	24 57	1 44	9 49	1 31	3 1	1 56	21 51	0 31	14 20	1 47	20 13	10 25	23 24	23 24	9 47	7 25	6 50			
M31	4n 5	22s 6	2s48	7s56	2s 7	18n 9	0n58	24n58	1n44	9s47	1n31	2s58	1s56	21n51	0n31	14s19	1n47	20s13	10s25	23s24	23s24	9s49	7n26	6s49			

ASTRODIENST EPHEMERIS for the year 2290

geocentric

APRIL 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 45	11°19'18"	8°42'	16°10'	19°8'24"	24°II 3	29°R11	27°H 8	23°D35	14°R 2	2°H40	0°R23	1°325	13°16	22°R46	T 1
W 2	12 41 42	12°18'40"	20°58'	17°34'	20°35'	24°37'	29°A 4	27°15'	23°35	14°M 1	2°41'	0°321	1°21	13°22	22°A43	W 2
T 3	12 45 38	13°18'00"	3°30'	19° 0'	21°46'	25°11'	28°56'	27°23'	23°35	13°59'	2°43'	0°D21	1°18	13°29	22°41'	T 3
F 4	12 49 35	14°17'19"	16°22'	20°27'	22°56'	25°45'	28°49'	27°30'	23°36	13°58'	2°44'	0°R21	1°15	13°36	22°39'	F 4
S 5	12 53 31	15°16'35"	29°38'	21°56'	24° 6'	26°19'	28°42'	27°37'	23°36	13°57'	2°46'	0°20	1°12	13°43	22°37'	S 5
S 6	12 57 28	16°15'50"	13°21'	23°27'	25°17'	26°53'	28°35'	27°44'	23°36	13°55'	2°47'	0°18	1° 9	13°49	22°36'	S 6
M 7	13 1 25	17°15'04"	27°34'	24°59'	26°27'	27°27'	28°27'	27°51'	23°36	13°54'	2°48'	0°13	1° 6	13°56	22°34'	M 7
T 8	13 5 21	18°14'15"	12°14'	26°32'	27°37'	28° 1'	28°20'	27°59'	23°37	13°52'	2°50'	0° 5	1° 2	14° 3	22°32'	T 8
W 9	13 9 18	19°13'24"	27°17'	28° 7'	28°47'	28°36'	28°12'	28° 6'	23°37	13°51'	2°51'	29°A56	0°59	14° 9	22°31'	W 9
T 10	13 13 14	20°12'32"	12°Y34	29°43'	29°57'	29°10'	28° 5'	28°13'	23°38	13°49'	2°52'	29°45	0°56	14°16	22°30'	T 10
F 11	13 17 11	21°11'38"	27°53'	1°Y21	1°II 6	29°45'	27°57'	28°20'	23°38	13°48'	2°53'	29°35	0°53	14°23	22°28'	F 11
S 12	13 21 7	22°10'41"	13°B 4	3° 0'	2°16'	0°E19	27°50'	28°27'	23°39	13°46'	2°55'	29°27	0°50	14°30	22°27'	S 12
S 13	13 25 4	23° 9'43"	27°56'	4°41'	3°25'	0°54'	27°42'	28°34'	23°39	13°45'	2°56'	29°21	0°47	14°36	22°26'	S 13
M14	13 29 0	24° 8'42"	12°II23	6°23'	4°35'	1°28'	27°34'	28°41'	23°40	13°43'	2°57'	29°18	0°43	14°43	22°25'	M14
T 15	13 32 57	25° 7'39"	26°22'	8° 7'	5°44'	2° 3'	27°27'	28°48'	23°41	13°42'	2°58'	29°D16	0°40	14°50	22°25'	T 15
W16	13 36 54	26° 6'34"	9°E52	9°52'	6°53'	2°37'	27°19'	28°54'	23°41	13°40'	2°59'	29°17	0°37	14°56	22°24'	W16
T 17	13 40 50	27° 5'27"	22°55'	11°39'	8° 2'	3°12'	27°11'	29° 1'	23°42	13°39'	3° 0'	29°R17	0°34	15° 3	22°23'	T 17
F 18	13 44 47	28° 4'17"	5°U37	13°27'	9°11'	3°47'	27° 4'	29° 8'	23°43	13°37'	3° 2'	29°17	0°31	15°10	22°23'	F 18
S 19	13 48 43	29° 3'05"	18° 1'	15°17'	10°19'	4°22'	26°56'	29°15'	23°44	13°36'	3° 3'	29°15	0°27	15°17	22°22'	S 19
S 20	13 52 40	0°B 1'51"	0°M11	17° 9'	11°28'	4°57'	26°48'	29°22'	23°45	13°34'	3° 4'	29°11	0°24	15°23	22°22'	S 20
M21	13 56 36	1° 0'35"	12°12'	19° 2'	12°36'	5°31'	26°40'	29°28'	23°46	13°33'	3° 5'	29° 4'	0°21	15°30	22°22'	M21
T 22	14 0 33	1°59'16"	24° 7'	20°56'	13°44'	6° 6'	26°33'	29°35'	23°47	13°31'	3° 6'	28°56	0°18	15°37	22°D22	T 22
W23	14 4 29	2°57'55"	6°A 0	22°52'	14°52'	6°41'	26°25'	29°42'	23°48	13°29'	3° 7'	28°45	0°15	15°43	22°22'	W23
T 24	14 8 26	3°56'32"	17°52'	24°50'	16° 0'	7°16'	26°18'	29°48'	23°50	13°28'	3° 8'	28°35	0°12	15°50	22°22'	T 24
F 25	14 12 23	4°55'08"	29°45'	26°49'	17° 8'	7°51'	26°10'	29°55'	23°51	13°26'	3° 9'	28°24	0° 8	15°57	22°22'	F 25
S 26	14 16 19	5°53'41"	11°M41	28°49'	18°15'	8°26'	26° 3'	0°Y 1	23°52	13°25'	3°10'	28°15	0° 5	16° 4	22°23'	S 26
S 27	14 20 16	6°52'12"	23°41'	0°B51	19°22'	9° 2'	25°55'	0° 8'	23°54	13°23'	3°11'	28° 8	0° 2	16°10	22°23'	S 27
M28	14 24 12	7°50'42"	5°A47	2°54'	20°29'	9°37'	25°48'	0°14'	23°55	13°21'	3°12'	28° 3	29°A59	16°17	22°24'	M28
T 29	14 28 9	8°49'10"	18° 2'	4°59'	21°36'	10°12'	25°40'	0°20'	23°56	13°20'	3°12'	28° 1	29°56	16°24	22°24'	T 29
W30	14 32 5	9°47'36"	0°E26	7°B 5	22°II43	10°E47	25°A33	0°Y27	23°E58	13°M18	3°H13	28°D 0	29°A53	16°A30	22°Q25	W30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	4n28	23s34	1s52	7s28	2s12	18n32	1n 1	25n 0	1n44	9s44	1n31	2s55	1s57	21n51	0n31	14s19
W 2	4 51	23 55	0 49	6 59	2 15	18 55	1 5	25 1	1 44	9 42	1 32	2 52	1 57	21 51	0 31	14 18
T 3	5 15	23 5	0n17	6 28	2 18	19 17	1 8	25 2	1 43	9 39	1 32	2 50	1 57	21 51	0 31	14 18
F 4	5 38	21 1	1 24	5 56	2 21	19 38	1 12	25 3	1 43	9 37	1 32	2 47	1 57	21 51	0 31	14 18
S 5	6 0	17 47	2 29	5 23	2 23	19 59	1 15	25 4	1 43	9 34	1 32	2 44	1 57	21 51	0 31	14 17
S 6	6 23	13 29	3 27	4 49	2 25	20 20	1 19	25 4	1 43	9 31	1 32	2 41	1 57	21 51	0 31	14 17
M 7	6 46	8 18	4 15	4 14	2 26	20 40	1 22	25 5	1 42	9 29	1 32	2 39	1 57	21 51	0 31	14 16
T 8	7 8	2 32	4 48	3 38	2 27	20 59	1 26	25 5	1 42	9 26	1 32	2 36	1 57	21 51	0 31	14 16
W 9	7 31	3n32	5 2	3 0	2 28	21 18	1 29	25 5	1 42	9 23	1 32	2 33	1 57	21 51	0 31	14 15
T 10	7 53	9 28	4 54	2 22	2 27	21 37	1 32	25 6	1 42	9 21	1 32	2 30	1 57	21 51	0 31	14 15
F 11	8 15	14 51	4 26	1 42	2 27	21 54	1 36	25 5	1 41	9 18	1 32	2 28	1 57	21 51	0 31	14 14
S 12	8 37	19 13	3 39	1 2	2 26	22 12	1 39	25 5	1 41	9 15	1 32	2 25	1 58	21 51	0 31	14 14
S 13	8 59	22 15	2 38	0 21	2 24	22 29	1 42	25 5	1 41	9 12	1 32	2 22	1 58	21 50	0 31	14 13
M14	9 21	23 43	1 29	0n22	2 22	22 45	1 45	25 4	1 41	9 10	1 32	2 20	1 58	21 50	0 31	14 13
T 15	9 43	23 37	0 16	1 5	2 19	23 0	1 48	25 3	1 40	9 7	1 32	2 17	1 58	21 50	0 31	14 13
W16	10 4	22 6	0s56	1 49	2 16	23 15	1 51	25 3	1 40	9 4	1 32	2 14	1 58	21 50	0 31	14 12
T 17	10 25	19 26	2 3	2 34	2 12	23 30	1 55	25 1	1 40	9 2	1 32	2 12	1 58	21 50	0 31	14 12
F 18	10 46	15 55	3 1	3 20	2 8	23 44	1 58	25 0	1 39	8 59	1 32	2 9	1 58	21 50	0 31	14 11
S 19	11 7	11 46	3 50	4 7	2 3	23 57	2 1	24 59	1 39	8 56	1 32	2 7	1 58	21 49	0 31	14 11
S 20	11 28	7 13	4 27	4 54	1 58	24 10	2 4	24 57	1 39	8 53	1 32	2 4	1 59	21 49	0 31	14 10
M21	11 48	2 29	4 51	5 42	1 53	24 22	2 6	24 56	1 39	8 51	1 32	2 2	1 59	21 49	0 31	14 10
T 22	12 9	2s19	5 3	6 31	1 46	24 33	2 9	24 54	1 38	8 48	1 32	1 59	1 59	21 49	0 31	14 9
W23	12 29	7 0	5 2	7 20	1 40	24 44	2 12	24 52	1 38	8 45	1 32	1 56	1 59	21 49	0 31	14 9
T 24	12 49	11 25	4 48	8 10	1 33	24 54	2 15	24 50	1 38	8 43	1 32	1 54	1 59	21 48	0 31	14 8
F 25	13 8	15 26	4 21	9 0	1 25	25 3	2 17	24 47	1 37	8 40	1 32	1 52	1 59	21 48	0 31	14 8
S 26	13 28	18 50	3 42	9 50	1 17	25 12	2 20	24 45	1 37	8 37	1 31	1 49	1 59	21 48	0 31	14 7
S 27	13 47	21 28	2 54	10 41	1 9	25 21	2 22	24 42	1 37	8 35	1 31	1 47	2 0	21 48	0 31	14 7
M28	14 6	23 9	1 57	11 32	1 0	25 28	2 25	24 40	1 37	8 32	1 31	1 44	2 0	21 47	0 31	14 6
T 29	14 25	23 45	0 54	12 22	0 50	25 35	2 27	24 37	1 36	8 29	1 31	1 42	2 0	21 47	0 30	14 6
W30	14n44	23s11	0n13	13n13	0s41	25n41	2n30	24n34	1n36	8s27	1n31	1s40	2s 0	21n47	0n30	14s 5

Julian Day Number = 2557555.5, Delta T = 280.41 sec

Ecliptic obliquity = 23°24'06", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 28°47'50", Lahiri = 27°54'50"

ASTRODIENST EPHEMERIS for the year 2290

geocentric

MAY 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 36 2	10 ⁸ 46'01	13 ³ 4	9 ⁸ 12	23 ^{II} 50	11 [☾] 22	25 [°] R26	0 [°] Y33	24 [☾] 0	13 [°] R16	3 [°] H14	28 [°] 1	29 [°] 49	16 [°] 37	22 [°] 26	T 1
F 2	14 39 58	11 [°] 44'24	25 [°] 59	11 [°] 20	24 [°] 56	11 [°] 58	25 [°] A19	0 [°] 39	24 [°] 1	13 [°] M15	3 [°] 15	28 [°] 2	29 [°] 46	16 [°] 44	22 [°] 27	F 2
S 3	14 43 55	12 [°] 42'46	9 [°] 14	13 [°] 28	26 [°] 2	12 [°] 33	25 [°] 11	0 [°] 45	24 [°] 3	13 [°] 13	3 [°] 16	28 [°] R 3	29 [°] 43	16 [°] 51	22 [°] 28	S 3
S 4	14 47 52	13 [°] 41'06	22 [°] 52	15 [°] 37	27 [°] 8	13 [°] 8	25 [°] 4	0 [°] 52	24 [°] 4	13 [°] 12	3 [°] 17	28 [°] 3	29 [°] 40	16 [°] 57	22 [°] 30	S 4
M 5	14 51 48	14 [°] 39'24	6 [°] 54	17 [°] 46	28 [°] 14	13 [°] 43	24 [°] 58	0 [°] 58	24 [°] 6	13 [°] 10	3 [°] 17	28 [°] 1	29 [°] 37	17 [°] 4	22 [°] 31	M 5
T 6	14 55 45	15 [°] 37'41	21 [°] 19	19 [°] 56	29 [°] 19	14 [°] 19	24 [°] 51	1 [°] 4	24 [°] 8	13 [°] 8	3 [°] 18	27 [°] 57	29 [°] 33	17 [°] 11	22 [°] 32	T 6
W 7	14 59 41	16 [°] 35'57	6 [°] Y 6	22 [°] 5	0 [°] 25	14 [°] 54	24 [°] 44	1 [°] 10	24 [°] 10	13 [°] 7	3 [°] 19	27 [°] 52	29 [°] 30	17 [°] 17	22 [°] 34	W 7
T 8	15 3 38	17 [°] 34'10	21 [°] 6	24 [°] 13	1 [°] 30	15 [°] 30	24 [°] 37	1 [°] 15	24 [°] 12	13 [°] 5	3 [°] 19	27 [°] 46	29 [°] 27	17 [°] 24	22 [°] 36	T 8
F 9	15 7 34	18 [°] 32'23	6 [°] 8 13	26 [°] 21	2 [°] 35	16 [°] 5	24 [°] 31	1 [°] 21	24 [°] 14	13 [°] 3	3 [°] 20	27 [°] 40	29 [°] 24	17 [°] 31	22 [°] 37	F 9
S 10	15 11 31	19 [°] 30'34	21 [°] 16	28 [°] 28	3 [°] 39	16 [°] 41	24 [°] 24	1 [°] 27	24 [°] 16	13 [°] 2	3 [°] 21	27 [°] 35	29 [°] 21	17 [°] 38	22 [°] 39	S 10
S 11	15 15 27	20 [°] 28'43	6 [°] II 6	0 [°] II33	4 [°] 44	17 [°] 16	24 [°] 18	1 [°] 33	24 [°] 18	13 [°] 0	3 [°] 21	27 [°] 32	29 [°] 18	17 [°] 44	22 [°] 41	S 11
M12	15 19 24	21 [°] 26'50	20 [°] 35	2 [°] 37	5 [°] 48	17 [°] 52	24 [°] 12	1 [°] 38	24 [°] 20	12 [°] 59	3 [°] 22	27 [°] D30	29 [°] 14	17 [°] 51	22 [°] 43	M12
T 13	15 23 21	22 [°] 24'56	4 [°] 38	4 [°] 38	6 [°] 52	18 [°] 28	24 [°] 6	1 [°] 44	24 [°] 22	12 [°] 57	3 [°] 22	27 [°] 30	29 [°] 11	17 [°] 58	22 [°] 46	T 13
W14	15 27 17	23 [°] 23'00	18 [°] 15	6 [°] 37	7 [°] 56	19 [°] 3	24 [°] 0	1 [°] 50	24 [°] 24	12 [°] 55	3 [°] 23	27 [°] 32	29 [°] 8	18 [°] 5	22 [°] 48	W14
T 15	15 31 14	24 [°] 21'02	1 [°] 26	8 [°] 34	8 [°] 59	19 [°] 39	23 [°] 54	1 [°] 55	24 [°] 26	12 [°] 54	3 [°] 23	27 [°] 33	29 [°] 5	18 [°] 11	22 [°] 50	T 15
F 16	15 35 10	25 [°] 19'02	14 [°] 13	10 [°] 29	10 [°] 2	20 [°] 15	23 [°] 48	2 [°] 0	24 [°] 28	12 [°] 52	3 [°] 24	27 [°] 34	29 [°] 2	18 [°] 18	22 [°] 53	F 16
S 17	15 39 7	26 [°] 17'00	26 [°] 40	12 [°] 20	11 [°] 5	20 [°] 50	23 [°] 43	2 [°] 6	24 [°] 31	12 [°] 51	3 [°] 24	27 [°] R35	28 [°] 59	18 [°] 25	22 [°] 55	S 17
S 18	15 43 3	27 [°] 14'56	8 [°] 51	14 [°] 8	12 [°] 7	21 [°] 26	23 [°] 37	2 [°] 11	24 [°] 33	12 [°] 49	3 [°] 25	27 [°] 34	28 [°] 55	18 [°] 31	22 [°] 58	S 18
M19	15 47 0	28 [°] 12'51	20 [°] 52	15 [°] 54	13 [°] 9	22 [°] 2	23 [°] 32	2 [°] 16	24 [°] 35	12 [°] 47	3 [°] 25	27 [°] 32	28 [°] 52	18 [°] 38	23 [°] 1	M19
T 20	15 50 56	29 [°] 10'44	2 [°] 47	17 [°] 36	14 [°] 11	22 [°] 38	23 [°] 27	2 [°] 21	24 [°] 38	12 [°] 46	3 [°] 26	27 [°] 29	28 [°] 49	18 [°] 45	23 [°] 4	T 20
W21	15 54 53	0 [°] II 8'35	14 [°] 38	19 [°] 15	15 [°] 13	23 [°] 13	23 [°] 22	2 [°] 27	24 [°] 40	12 [°] 44	3 [°] 26	27 [°] 25	28 [°] 46	18 [°] 52	23 [°] 7	W21
T 22	15 58 50	1 [°] 6'24	26 [°] 31	20 [°] 51	16 [°] 14	23 [°] 49	23 [°] 17	2 [°] 32	24 [°] 43	12 [°] 43	3 [°] 26	27 [°] 20	28 [°] 43	18 [°] 58	23 [°] 10	T 22
F 23	16 2 46	2 [°] 4'12	8 [°] M27	22 [°] 23	17 [°] 15	24 [°] 25	23 [°] 12	2 [°] 37	24 [°] 45	12 [°] 41	3 [°] 26	27 [°] 16	28 [°] 39	19 [°] 5	23 [°] 13	F 23
S 24	16 6 43	3 [°] 1'58	20 [°] 28	23 [°] 52	18 [°] 15	25 [°] 1	23 [°] 8	2 [°] 41	24 [°] 48	12 [°] 40	3 [°] 27	27 [°] 12	28 [°] 36	19 [°] 12	23 [°] 16	S 24
S 25	16 10 39	3 [°] 59'44	2 [°] 38	25 [°] 17	19 [°] 16	25 [°] 37	23 [°] 3	2 [°] 46	24 [°] 50	12 [°] 38	3 [°] 27	27 [°] 10	28 [°] 33	19 [°] 18	23 [°] 20	S 25
M26	16 14 36	4 [°] 57'27	14 [°] 57	26 [°] 39	20 [°] 15	26 [°] 13	22 [°] 59	2 [°] 51	24 [°] 53	12 [°] 37	3 [°] 27	27 [°] 8	28 [°] 30	19 [°] 25	23 [°] 23	M26
T 27	16 18 32	5 [°] 55'10	27 [°] 26	27 [°] 57	21 [°] 15	26 [°] 49	22 [°] 55	2 [°] 56	24 [°] 55	12 [°] 35	3 [°] 27	27 [°] D 7	28 [°] 27	19 [°] 32	23 [°] 27	T 27
W28	16 22 29	6 [°] 52'51	10 [°] 3	29 [°] 12	22 [°] 14	27 [°] 25	22 [°] 51	3 [°] 0	24 [°] 58	12 [°] 34	3 [°] 28	27 [°] 8	28 [°] 24	19 [°] 39	23 [°] 31	W28
T 29	16 26 25	7 [°] 50'31	23 [°] 1	0 [°] 22	23 [°] 12	28 [°] 1	22 [°] 47	3 [°] 5	25 [°] 1	12 [°] 32	3 [°] 28	27 [°] 9	28 [°] 20	19 [°] 45	23 [°] 34	T 29
F 30	16 30 22	8 [°] 48'10	6 [°] 9	1 [°] 29	24 [°] 10	28 [°] 37	22 [°] 44	3 [°] 9	25 [°] 4	12 [°] 31	3 [°] 28	27 [°] 10	28 [°] 17	19 [°] 52	23 [°] 38	F 30
S 31	16 34 19	9 [°] II45'48	19 [°] 33	2 [°] 33	25 [°] 8	29 [°] 13	22 [°] A40	3 [°] Y13	25 [°] 6	12 [°] M30	3 [°] H28	27 [°] A12	28 [°] A14	19 [°] 59	23 [°] 42	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
T 1	15n 2	21s26	1n20	14n 3	0s31	25n47	2n32	24n30	1n36	8s24	1n31	1s37	2s 0	21n47	0n30	14s 5	1n48	20s 7	10s33	23s23	23s24	11s 4	7n57	6s24					
F 2	15 20	18 32	2 25	14 52	0 21	25 52	2 34	24 27	1 35	8 22	1 31	1 35	2 0	21 46	0 30	14 4	1 48	20 7	10 34	23 23	23 24	11 7	7 57	6 24					
S 3	15 38	14 38	3 24	15 41	0 10	25 56	2 36	24 23	1 35	8 19	1 31	1 33	2 1	21 46	0 30	14 4	1 48	20 7	10 34	23 23	23 24	11 9	7 58	6 23					
S 4	15 55	9 53	4 13	16 29	0n 0	26 0	2 38	24 20	1 35	8 17	1 31	1 30	2 1	21 46	0 30	14 3	1 48	20 7	10 34	23 23	23 24	11 11	7 58	6 22					
M 5	16 13	4 29	4 49	17 16	0 11	26 3	2 40	24 16	1 35	8 15	1 30	1 28	2 1	21 45	0 30	14 3	1 48	20 7	10 35	23 23	23 24	11 14	7 58	6 21					
T 6	16 30	1n17	5 7	18 2	0 21	26 5	2 41	24 12	1 34	8 12	1 30	1 26	2 1	21 45	0 30	14 2	1 48	20 7	10 35	23 23	23 24	11 16	7 59	6 20					
W 7	16 46	7 6	5 6	18 46	0 32	26 7	2 43	24 8	1 34	8 10	1 30	1 24	2 1	21 45	0 30	14 2	1 48	20 7	10 35	23 23	23 24	11 18	7 59	6 19					
T 8	17 3	12 37	4 44	19 29	0 42	26 8	2 45	24 3	1 34	8 8	1 30	1 21	2 1	21 44	0 30	14 1	1 48	20 7	10 36	23 23	23 24	11 21	7 59	6 18					
F 9	17 19	17 23	4 3	20 10	0 53	26 9	2 46	23 59	1 33	8 5	1 30	1 19	2 2	21 44	0 30	14 1	1 48	20 7	10 36	23 23	23 24	11 23	8 0	6 18					
S 10	17 35	21 0	3 4	20 48	1 3	26 9	2 48	23 54	1 33	8 3	1 30	1 17	2 2	21 44	0 30	14 0	1 48	20 7	10 36	23 23	23 24	11 25	8 0	6 17					
S 11	17 50	23 10	1 54	21 25	1 12	26 8	2 49	23 49	1 33	8 1	1 30	1 15	2 2	21 43	0 30	14 0	1 48	20 7	10 36	23 23	23 24	11 28	8 0	6 16					
M12	18 6	23 42	0 38	21 59	1 21	26 6	2 50	23 44	1 32	7 59	1 29	1 13	2 2	21 43	0 30	13 59	1 48	20 7	10 37	23 23	23 24	11 30	8 0	6 15					
T 13	18 21	22 40	0s39	22 30	1 30	26 4	2 51	23 39	1 32	7 57	1 29	1 11	2 2	21 42	0 30	13 59	1 48	20 7	10 37	23 23	23 24	11 32	8 0	6 14					
W14	18 35	20 20	1 51	23 0	1 38	26 2	2 52	23 34	1 32	7 55	1 29	1 9	2 2	21 42	0 30	13 58	1 48	20 8	10 37	23 23	23 24	11 35	8 0	6 13					
T 15	18 50	16 58	2 55	23 26	1 46	25 58	2 53	23 28	1 31	7 53	1 29	1 7	2 3	21 42	0 30	13 58	1 48	20 8	10 38	23 23	23 24	11 37	8 0	6 13					
F 16	19 4	12 54	3 48	23 50	1 53	25 54	2 54	23 23	1 31	7 51	1 29	1 5	2 3	21 41	0 30	13 58	1 48	20 8	10 38	23 23	23 24	11 39	8 0	6 12					
S 17	19 17	8 24	4 29	24 12	1 59	25 50	2 54	23 17	1 31	7 49	1 28	1 3	2 3	21 41	0 30	13 57	1 48	20 8	10 38	23 23	23 24	11 41	8 0	6 11					
S 18	19 31	3 39	4 56	24 31	2 4	25 45	2 55	23 11	1 30	7 47	1 28	1 1	2 3	21 40	0 30	13 57	1 48	20 8	10 39	23 23	23 24	11 44	8 0	6 10					
M19	19 44	1s 9	5 11	24 48	2 9	25 39	2 55	23 5	1 30	7 46	1 28	0 59	2 3	21 40	0 30	13 56	1 48	20 8	10 39	23 23	23 24	11 46	8 0	6 9					
T 20	19 57	5 52	5 11	25 2	2 13	25 33	2 55	22 59	1 30	7 44	1 28	0 57	2 4	21 40	0 30	13 56	1 48	20 8	10 39	23 23	23 24	11 48	8 0	6 9					
W21	20 9	10 21	4 59	25 13	2 16	25 26	2 55	22 53	1 29	7 42	1 28	0 56	2 4	21 39	0 30	13 55	1 48	20 9	10 40	23 23	23 24	11 51	8 0	6 8					
T 22	20 21	14 27	4 33	25 23	2 18	25 19	2 55	22 46	1 29	7 41	1 27	0 54	2 4	21 39	0 30	13 55	1 48	20 9	10 40	23 22	23 24	11 53	7 59	6 7					
F 23	20 33	18 1	3 56	25 30	2 19	25 11	2 55	22 39	1 29	7 39	1 27	0 52	2 4	21 38	0 30	13 54	1 48	20 9	10 40	23 22	23 24	11 55	7 59	6 6					
S 24	20 44	20 51	3 8	25 35	2 20	25 2	2 55	22 33	1 28	7 38	1 27	0 50	2 5	21 38	0 30	13 54	1 48	20 9	10 41	23 22	23 24	11 58	7 59	6 5					
S 25	20 55	22 47	2 11	25 39	2 20	24 54	2 54	22 26	1 28	7 36	1 27	0 49	2 5	21 37	0 30	13 54	1 48	20 9	10 41	23 22	23 24	12 0	7 58	6 5					
M26	21 5	23 39	1 7	25 40	2 18	24 44	2 53	22 19	1 28	7 35	1 27	0 47	2 5	21 37	0 30	13 53	1 48	20 10	10 41	23 22	23 24	12 2	7 58	6 4					
T 27	21 16	23 21	0n 2	25 39	2 16	24 34	2 53	22 12	1 27	7 34	1 26	0 45	2 5	21 36	0 30	13 53	1 48	20 10	10 42	23 22	23 24	12 4	7 58	6 3					
W28	21 25	21 50	1 11	25 37	2 13	24 24	2 52	22 4	1 27	7 32	1 26	0 44	2 5	21 36	0 30	13 52	1 48	20 10	10 42	23 22	23 23	12 7	7 57	6 2					
T 29	21 35	19 11	2 18	25 33	2 9	24 13	2 51	21 57	1 27	7 31	1 26	0 42	2 6	21 35	0 30	13 52	1 48	20 10	10 42	23 22	23 23	12 9	7 57	6 1					
F 30	21 44	15 30	3 19	25 28	2 5	24 1	2 49	21 49	1 26	7 30	1 26	0 40	2 6	21 35	0 30	13 51	1 48	20 11	10 43	23 22	23 23	12 11	7 56	6 1					
S 31	21n53	10s58	4n10	25n21	1n59	23n49	2n48	21n41	1n26	7s29	1n25	0s39	2s 6	21n34	0n30	13s51	1n48	20s11	10s43	23s22	23s23	12s13	7n56	6s 0					

ASTRODIENST EPHEMERIS for the year 2290

geocentric

JUNE 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 38 15	10 ^{II} 43'25	3 ^{II} 13	3 ^{II} 32	26 ^{II} 5	29 ^{II} 49	22°R37	3 ^{II} 18	25 ^{II} 9	12°R28	3 ^{II} 28	27 ^{II} 12	28 ^{II} 11	20 ^{II} 5	23 ^{II} 46	S 1
M 2	16 42 12	11°41'01	17°11	4°28	27° 2	0 ^{II} 25	22 ^{II} 34	3°22	25°12	12 ^{II} 27	3°28	27°R12	28° 8	20°12	23°50	M 2
T 3	16 46 8	12°38'36	1 ^{II} 25	5°19	27°58	1° 1	22°31	3°26	25°15	12°25	3°R28	27°12	28° 5	20°19	23°55	T 3
W 4	16 50 5	13°36'10	15°53	6° 6	28°54	1°37	22°28	3°30	25°18	12°24	3°28	27°11	28° 1	20°26	23°59	W 4
T 5	16 54 1	14°33'44	0 ^{II} 31	6°50	29°49	2°13	22°26	3°34	25°21	12°23	3°28	27° 9	27°58	20°32	24° 3	T 5
F 6	16 57 58	15°31'17	15°13	7°29	0 ^{II} 44	2°50	22°23	3°38	25°24	12°21	3°28	27° 8	27°55	20°39	24° 8	F 6
S 7	17 1 54	16°28'49	29°54	8° 3	1°38	3°26	22°21	3°42	25°27	12°20	3°28	27° 7	27°52	20°46	24°12	S 7
S 8	17 5 51	17°26'20	14 ^{II} 26	8°34	2°32	4° 2	22°19	3°45	25°30	12°19	3°28	27° 6	27°49	20°52	24°17	S 8
M 9	17 9 48	18°23'50	28°43	8°59	3°25	4°38	22°17	3°49	25°33	12°18	3°28	27°D 6	27°45	20°59	24°22	M 9
T 10	17 13 44	19°21'19	12 ^{II} 34	9°21	4°17	5°14	22°16	3°53	25°36	12°16	3°28	27° 6	27°42	21° 6	24°27	T 10
W11	17 17 41	20°18'47	26°16	9°38	5° 9	5°51	22°14	3°56	25°39	12°15	3°27	27° 6	27°39	21°12	24°32	W11
T 12	17 21 37	21°16'14	9 ^{II} 28	9°50	6° 0	6°27	22°13	3°59	25°42	12°14	3°27	27° 7	27°36	21°19	24°37	T 12
F 13	17 25 34	22°13'40	22°19	9°57	6°51	7° 3	22°12	4° 3	25°46	12°13	3°27	27° 8	27°33	21°26	24°42	F 13
S 14	17 29 30	23°11'05	4 ^{II} 49	10°R 0	7°41	7°40	22°11	4° 6	25°49	12°12	3°27	27° 8	27°30	21°33	24°47	S 14
S 15	17 33 27	24° 8'28	17° 4	9°59	8°30	8°16	22°10	4° 9	25°52	12°10	3°26	27° 8	27°26	21°39	24°52	S 15
M16	17 37 23	25° 5'51	29° 6	9°53	9°18	8°53	22° 9	4°12	25°55	12° 9	3°26	27°R 8	27°23	21°46	24°57	M16
T 17	17 41 20	26° 3'12	11 ^{II} 1	9°42	10° 5	9°29	22° 9	4°15	25°59	12° 8	3°26	27° 8	27°20	21°53	25° 3	T 17
W18	17 45 17	27° 0'32	22°54	9°28	10°52	10° 5	22° 9	4°18	26° 2	12° 7	3°25	27°D 8	27°17	21°59	25° 8	W18
T 19	17 49 13	27°57'52	4 ^{II} 47	9°10	11°38	10°42	22°D 9	4°20	26° 5	12° 6	3°25	27° 8	27°14	22° 6	25°14	T 19
F 20	17 53 10	28°55'11	16°46	8°48	12°23	11°18	22° 9	4°23	26° 8	12° 5	3°25	27° 8	27°11	22°13	25°19	F 20
S 21	17 57 6	29°52'29	28°54	8°23	13° 7	11°55	22° 9	4°26	26°12	12° 4	3°24	27° 9	27° 7	22°20	25°25	S 21
S 22	18 1 3	0 ^{II} 49'46	11 ^{II} 14	7°55	13°50	12°31	22° 9	4°28	26°15	12° 3	3°24	27° 9	27° 4	22°26	25°31	S 22
M23	18 4 59	1°47'03	23°46	7°24	14°32	13° 8	22°10	4°30	26°19	12° 2	3°23	27°R 9	27° 1	22°33	25°36	M23
T 24	18 8 56	2°44'19	6 ^{II} 33	6°52	15°13	13°45	22°11	4°33	26°22	12° 1	3°23	27° 9	26°58	22°40	25°42	T 24
W25	18 12 53	3°41'34	19°35	6°18	15°53	14°21	22°12	4°35	26°25	12° 1	3°22	27° 9	26°55	22°46	25°48	W25
T 26	18 16 49	4°38'50	2 ^{II} 52	5°44	16°32	14°58	22°13	4°37	26°29	12° 0	3°22	27° 8	26°51	22°53	25°54	T 26
F 27	18 20 46	5°36'04	16°23	5° 9	17° 9	15°34	22°15	4°39	26°32	11°59	3°21	27° 7	26°48	23° 0	26° 0	F 27
S 28	18 24 42	6°33'19	0 ^{II} 6	4°35	17°46	16°11	22°16	4°41	26°36	11°58	3°21	27° 6	26°45	23° 7	26° 7	S 28
S 29	18 28 39	7°30'33	14° 0	4° 1	18°21	16°48	22°18	4°43	26°39	11°57	3°20	27° 5	26°42	23°13	26°13	S 29
M30	18 32 35	8 ^{II} 27'47	28 ^{II} 4	3 ^{II} 30	18 ^{II} 55	17 ^{II} 24	22 ^{II} 20	4°44	26 ^{II} 43	11 ^{II} 57	3 ^{II} 19	27 ^{II} 4	26 ^{II} 39	23 ^{II} 20	26 ^{II} 19	M30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22n 1	5s49	4n49	25n14	1n52	23n37	2n46	21n33	1n26	7s28	1n25	0s37	2s 6	21n34	0n30	13s51	1n48	20s11	10s43	23s22	23s23	12s16	7n55	5s59			
M 2	22 9	0 16	5 11	25 4	1 45	23 24	2 45	21 25	1 25	7 27	1 25	0 36	2 7	21 33	0 30	13 50	1 48	20 11	10 44	23 22	23 23	12 18	7 54	5 58			
T 3	22 17	5n23	5 15	24 54	1 37	23 11	2 43	21 17	1 25	7 26	1 25	0 35	2 7	21 33	0 30	13 50	1 48	20 12	10 44	23 22	23 23	12 20	7 54	5 58			
W 4	22 24	10 50	4 59	24 43	1 28	22 58	2 40	21 9	1 25	7 25	1 24	0 33	2 7	21 32	0 30	13 49	1 48	20 12	10 44	23 22	23 23	12 22	7 53	5 57			
T 5	22 31	15 45	4 24	24 31	1 18	22 44	2 38	21 0	1 24	7 25	1 24	0 32	2 7	21 32	0 30	13 49	1 48	20 12	10 45	23 22	23 23	12 25	7 52	5 56			
F 6	22 37	19 45	3 31	24 18	1 7	22 30	2 36	20 52	1 24	7 24	1 24	0 31	2 7	21 31	0 30	13 49	1 48	20 13	10 45	23 22	23 23	12 27	7 52	5 55			
S 7	22 43	22 27	2 25	24 5	0 55	22 15	2 33	20 43	1 24	7 23	1 24	0 29	2 8	21 30	0 30	13 48	1 48	20 13	10 45	23 22	23 23	12 29	7 51	5 55			
S 8	22 49	23 39	1 10	23 50	0 43	22 0	2 30	20 34	1 23	7 23	1 23	0 28	2 8	21 30	0 30	13 48	1 48	20 13	10 46	23 22	23 23	12 31	7 50	5 54			
M 9	22 54	23 15	0s 9	23 36	0 30	21 45	2 27	20 25	1 23	7 23	1 23	0 27	2 8	21 29	0 30	13 48	1 47	20 14	10 46	23 22	23 23	12 33	7 49	5 53			
T 10	22 59	21 23	1 25	23 20	0 16	21 29	2 24	20 16	1 23	7 22	1 23	0 26	2 8	21 29	0 30	13 47	1 47	20 14	10 46	23 22	23 23	12 36	7 48	5 53			
W11	23 3	18 20	2 35	23 5	0 1	21 13	2 20	20 7	1 22	7 22	1 23	0 24	2 9	21 28	0 30	13 47	1 47	20 14	10 46	23 22	23 23	12 38	7 47	5 52			
T 12	23 7	14 25	3 34	22 49	0s14	20 57	2 17	19 57	1 22	7 22	1 22	0 23	2 9	21 27	0 30	13 47	1 47	20 15	10 47	23 22	23 23	12 40	7 46	5 51			
F 13	23 10	9 57	4 20	22 32	0 29	20 41	2 13	19 48	1 22	7 21	1 22	0 22	2 9	21 27	0 30	13 46	1 47	20 15	10 47	23 22	23 23	12 42	7 45	5 51			
S 14	23 14	5 10	4 53	22 16	0 45	20 24	2 9	19 38	1 21	7 21	1 22	0 21	2 9	21 26	0 30	13 46	1 47	20 15	10 47	23 22	23 23	12 45	7 44	5 50			
S 15	23 16	0 18	5 12	22 0	1 2	20 7	2 5	19 28	1 21	7 21	1 22	0 20	2 10	21 26	0 30	13 46	1 47	20 16	10 48	23 22	23 23	12 47	7 43	5 49			
M16	23 19	4s29	5 17	21 44	1 19	19 50	2 0	19 18	1 21	7 21	1 21	0 19	2 10	21 25	0 30	13 45	1 47	20 16	10 48	23 22	23 23	12 49	7 42	5 48			
T 17	23 21	9 4	5 8	21 27	1 36	19 32	1 55	19 8	1 20	7 21	1 21	0 18	2 10	21 24	0 30	13 45	1 47	20 17	10 48	23 22	23 22	12 51	7 41	5 48			
W18	23 22	13 18	4 46	21 11	1 53	19 15	1 50	18 58	1 20	7 22	1 21	0 18	2 10	21 24	0 30	13 45	1 47	20 17	10 49	23 22	23 22	12 53	7 40	5 47			
T 19	23 23	17 2	4 11	20 56	2 10	18 57	1 45	18 48	1 19	7 22	1 21	0 17	2 11	21 23	0 30	13 45	1 47	20 17	10 49	23 22	23 22	12 55	7 39	5 47			
F 20	23 24	20 6	3 26	20 40	2 26	18 39	1 40	18 38	1 19	7 22	1 20	0 16	2 11	21 23	0 30	13 44	1 47	20 18	10 49	23 22	23 22	12 58	7 37	5 46			
S 21	23 24	22 20	2 30	20 26	2 43	18 21	1 34	18 27	1 19	7 22	1 20	0 15	2 11	21 22	0 30	13 44	1 47	20 18	10 50	23 22	23 22	13 0	7 36	5 45			
S 22	23 24	23 32	1 27	20 12	2 59	18 3	1 28	18 16	1 18	7 23	1 20	0 14	2 12	21 21	0 30	13 44	1 47	20 19	10 50	23 22	23 22	13 2	7 35	5 45			
M23	23 23	23 34	0 19	19 58	3 14	17 45	1 22	18 6	1 18	7 23	1 19	0 14	2 12	21 21	0 30	13 44	1 47	20 19	10 50	23 22	23 22	13 4	7 34	5 44			
T 24	23 22	22 23	0n52	19 45	3 28	17 27	1 16	17 55	1 18	7 24	1 19	0 13	2 12	21 20	0 30	13 43	1 47	20 20	10 51	23 22	23 22	13 6	7 32	5 43			
W25	23 21	19 58	2 1	19 34	3 42	17 9	1 9	17 44	1 17	7 25	1 19	0 12	2 12	21 19	0 30	13 43	1 47	20 20	10 51	23 22	23 22	13 9	7 31	5 43			
T 26	23 19	16 29	3 5	19 23	3 54	16 51	1 2	17 33	1 17	7 25	1 19	0 12	2 13	21 19	0 30	13 43	1 47	20 21	10 51	23 22	23 22	13 11	7 29	5 42			
F 27	23 17	12 5	4 0	19 13	4 5	16 32	0 55	17 22	1 17	7 26	1 18	0 11	2 13	21 18	0 30	13 43	1 47	20 21	10 51	23 22	23 22	13 13	7 28	5 42			
S 28	23 14	7 1	4 42	19 4	4 15	16 14	0 47	17 10	1 16	7 27	1 18	0 11	2 13	21 17	0 30	13 43	1 47	20 22	10 52	23 22	23 22	13 15	7 26	5 41			
S 29	23 11	1 32	5 8	18 57	4 24	15 56	0 39	16 59	1 16	7 28	1 18	0 10	2 13	21 17	0 30	13 42	1 47	20 22	10 52	23 22	23 22	13 17	7 25	5 40			
M30	23n 8	4n 4	5n16	18n51	4s31	15n38	0n31	16n47	1n15	7s29	1n18	0s10	2s14	21n16	0n30	13s42	1n47	20s23	10s52	23s22	23s22	13s19	7n23	5s40			

ASTRODIENST EPHEMERIS for the year 2290

geocentric

JULY 2290

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 36 32	9 ²⁵ 02	12 ¹⁵ 15	3 ^R 0	19 ⁰² 28	18 ⁰¹ 1	22 ²² 22	4 ¹⁵ 46	26 ²⁶ 46	11 ^R 56	3 ^R 19	27 ^D 4	26 ²⁷ 36	23 ²² 27	26 ⁰² 25	T 1
W 2	18 40 28	10 ²² 16	26 ³⁰	2 ²³ 33	19 ⁵⁹	18 ³⁸	22 ²⁴	4 ⁴⁷	26 ⁵⁰	11 ^M 55	3 ^M 18	27 ^M 4	26 ³²	23 ³³	26 ³²	W 2
T 3	18 44 25	11 ¹⁹ 30	10 ⁸ 48	2 ⁹	20 ²⁹	19 ¹⁵	22 ²⁷	4 ⁴⁹	26 ⁵³	11 ⁵⁵	3 ¹⁷	27 ⁵	26 ²⁹	23 ⁴⁰	26 ³⁸	T 3
F 4	18 48 22	12 ¹⁶ 45	25 ⁵	1 ⁴⁸	20 ⁵⁷	19 ⁵¹	22 ²⁹	4 ⁵⁰	26 ⁵⁷	11 ⁵⁴	3 ¹⁷	27 ⁶	26 ²⁶	23 ⁴⁷	26 ⁴⁵	F 4
S 5	18 52 18	13 ¹³ 59	9 ¹¹ 19	1 ³²	21 ²⁴	20 ²⁸	22 ³²	4 ⁵¹	27 ¹	11 ⁵³	3 ¹⁶	27 ⁷	26 ²³	23 ⁵⁴	26 ⁵¹	S 5
S 6	18 56 15	14 ¹¹ 14	23 ²⁵	1 ¹⁹	21 ⁴⁹	21 ⁵	22 ³⁵	4 ⁵²	27 ⁴	11 ⁵³	3 ¹⁵	27 ^R 8	26 ²⁰	24 ⁰	26 ⁵⁸	S 6
M 7	19 0 11	15 ⁸ 29	7 ²⁰	1 ¹¹	22 ¹²	21 ⁴²	22 ³⁸	4 ⁵³	27 ⁸	11 ⁵²	3 ¹⁵	27 ⁸	26 ¹⁷	24 ⁷	27 ⁵	M 7
T 8	19 4 8	16 ⁵ 43	21 ⁰	1 ^D 8	22 ³⁴	22 ¹⁹	22 ⁴¹	4 ⁵⁴	27 ¹¹	11 ⁵²	3 ¹⁴	27 ⁷	26 ¹³	24 ¹⁴	27 ¹¹	T 8
W 9	19 8 4	17 ² 57	4 ⁰² 24	1 ⁹	22 ⁵⁴	22 ⁵⁶	22 ⁴⁵	4 ⁵⁵	27 ¹⁵	11 ⁵¹	3 ¹³	27 ⁵	26 ¹⁰	24 ²⁰	27 ¹⁸	W 9
T 10	19 12 1	18 ⁰ 12	17 ²⁹	1 ¹⁶	23 ¹³	23 ³²	22 ⁴⁸	4 ⁵⁶	27 ¹⁹	11 ⁵¹	3 ¹²	27 ²	26 ⁷	24 ²⁷	27 ²⁵	T 10
F 11	19 15 57	18 ⁵⁷ 26	0 ¹⁷ 17	1 ²⁷	23 ²⁹	24 ⁹	22 ⁵²	4 ⁵⁶	27 ²²	11 ⁵⁰	3 ¹¹	26 ⁵⁸	26 ⁴	24 ³⁴	27 ³²	F 11
S 12	19 19 54	19 ⁵⁴ 39	12 ⁴⁶	1 ⁴⁴	23 ⁴³	24 ⁴⁶	22 ⁵⁶	4 ⁵⁷	27 ²⁶	11 ⁵⁰	3 ¹⁰	26 ⁵⁵	26 ¹	24 ⁴⁰	27 ³⁹	S 12
S 13	19 23 51	20 ⁵¹ 53	25 ¹	2 ⁵	23 ⁵⁶	25 ²³	23 ⁰	4 ⁵⁷	27 ³⁰	11 ⁵⁰	3 ¹⁰	26 ⁵²	25 ⁵⁷	24 ⁴⁷	27 ⁴⁶	S 13
M14	19 27 47	21 ⁴⁹ 07	7 ²⁴	2 ³²	24 ⁶	26 ⁰	23 ⁴	4 ⁵⁷	27 ³³	11 ⁴⁹	3 ⁹	26 ⁵⁰	25 ⁵⁴	24 ⁵⁴	27 ⁵³	M14
T 15	19 31 44	22 ⁴⁶ 20	19 ⁰	3 ⁴	24 ¹⁴	26 ³⁷	23 ⁹	4 ⁵⁸	27 ³⁷	11 ⁴⁹	3 ⁸	26 ^D 50	25 ⁵¹	25 ¹	28 ⁰	T 15
W16	19 35 40	23 ⁴³ 33	0 ¹⁵ 52	3 ⁴¹	24 ²⁰	27 ¹⁴	23 ¹³	4 ^R 58	27 ⁴¹	11 ⁴⁹	3 ⁷	26 ⁵⁰	25 ⁴⁸	25 ⁷	28 ⁷	W16
T 17	19 39 37	24 ⁴⁰ 47	12 ⁴⁶	4 ²³	24 ²⁴	27 ⁵¹	23 ¹⁸	4 ⁵⁸	27 ⁴⁴	11 ⁴⁹	3 ⁶	26 ⁵¹	25 ⁴⁵	25 ¹⁴	28 ¹⁴	T 17
F 18	19 43 33	25 ³⁸ 00	24 ⁴⁶	5 ¹⁰	24 ^R 25	28 ²⁹	23 ²³	4 ⁵⁷	27 ⁴⁸	11 ⁴⁸	3 ⁵	26 ⁵²	25 ⁴²	25 ²¹	28 ²¹	F 18
S 19	19 47 30	26 ³⁵ 13	6 ² 58	6 ²	24 ²⁴	29 ⁶	23 ²⁸	4 ⁵⁷	27 ⁵¹	11 ⁴⁸	3 ⁴	26 ⁵⁴	25 ³⁸	25 ²⁷	28 ²⁹	S 19
S 20	19 51 26	27 ³² 27	19 ²⁴	6 ⁵⁸	24 ²¹	29 ⁴³	23 ³³	4 ⁵⁷	27 ⁵⁵	11 ⁴⁸	3 ³	26 ⁵⁵	25 ³⁵	25 ³⁴	28 ³⁶	S 20
M21	19 55 23	28 ²⁹ 40	2 ³ 8	8 ⁰	24 ¹⁵	0 ¹⁷ 20	23 ³⁸	4 ⁵⁷	27 ⁵⁹	11 ⁴⁸	3 ²	26 ^R 55	25 ³²	25 ⁴¹	28 ⁴³	M21
T 22	19 59 20	29 ²⁶ 54	15 ¹¹	9 ⁷	24 ⁷	0 ⁵⁷	23 ⁴⁴	4 ⁵⁶	28 ²	11 ⁴⁸	3 ¹	26 ⁵⁴	25 ²⁹	25 ⁴⁸	28 ⁵¹	T 22
W23	20 3 16	0 ⁰² 40'8	28 ³⁵	10 ¹⁸	23 ⁵⁷	1 ³⁴	23 ⁵⁰	4 ⁵⁵	28 ⁶	11 ⁴⁸	3 ⁰	26 ⁵¹	25 ²⁶	25 ⁵⁴	28 ⁵⁸	W23
T 24	20 7 13	1 ²¹ 23	12 ²² 17	11 ³⁴	23 ⁴⁴	2 ¹²	23 ⁵⁵	4 ⁵⁵	28 ¹⁰	11 ^D 48	2 ⁵⁹	26 ⁴⁷	25 ²³	26 ¹	29 ⁶	T 24
F 25	20 11 9	2 ¹⁸ 38	26 ¹⁵	12 ⁵⁴	23 ²⁹	2 ⁴⁹	24 ¹	4 ⁵⁴	28 ¹³	11 ⁴⁸	2 ⁵⁸	26 ⁴²	25 ¹⁹	26 ⁸	29 ¹³	F 25
S 26	20 15 6	3 ¹⁵ 53	10 ¹⁸ 24	14 ¹⁹	23 ¹¹	3 ²⁶	24 ⁷	4 ⁵³	28 ¹⁷	11 ⁴⁸	2 ⁵⁷	26 ³⁶	25 ¹⁶	26 ¹⁴	29 ²¹	S 26
S 27	20 19 2	4 ¹³ 09	24 ⁴¹	15 ⁴⁸	22 ⁵¹	4 ³	24 ¹³	4 ⁵²	28 ²¹	11 ⁴⁸	2 ⁵⁵	26 ³¹	25 ¹³	26 ²¹	29 ²⁸	S 27
M28	20 22 59	5 ¹⁰ 26	9 ¹⁵ 0	17 ²¹	22 ²⁹	4 ⁴¹	24 ²⁰	4 ⁵¹	28 ²⁴	11 ⁴⁸	2 ⁵⁴	26 ²⁸	25 ¹⁰	26 ²⁸	29 ³⁶	M28
T 29	20 26 55	6 ⁷ 44	23 ¹⁸	18 ⁵⁹	22 ⁵	5 ¹⁸	24 ²⁶	4 ⁵⁰	28 ²⁸	11 ⁴⁸	2 ⁵³	26 ²⁵	25 ⁷	26 ³⁴	29 ⁴³	T 29
W30	20 30 52	7 ⁵ 03	7 ¹⁸ 32	20 ⁴⁰	21 ³⁹	5 ⁵⁵	24 ³³	4 ⁵⁸	28 ³²	11 ⁴⁸	2 ⁵²	26 ^D 25	25 ³	26 ⁴¹	29 ⁵¹	W30
T 31	20 34 49	8 ⁰² 23	21 ¹⁸ 38	22 ²⁵ 25	21 ⁰² 11	6 ¹⁷ 33	24 ²⁴ 40	4 ¹⁵ 47	28 ²³ 35	11 ^M 49	2 ¹⁸ 51	26 ^M 25	25 ^M 0	26 ²⁴ 48	29 ⁰² 59	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23n 4	9n31	5n 5	18n46	4s36	15n20	0n23	16n36	1n15	7s30	1n17	0s10	2s14	21n15	0n30	13s42	1n47	20s23	10s53	23s22	23s21	13s21	7n22	5s39					
W 2	23 0	14 29	4 36	18 43	4 40	15 2	0 14	16 24	1 15	7 31	1 17	0 9	2 14	21 15	0 30	13 42	1 46	20 24	10 53	23 22	23 21	13 24	7 20	5 39					
T 3	22 55	18 40	3 49	18 41	4 42	14 44	0 6	16 12	1 14	7 32	1 17	0 9	2 14	21 14	0 30	13 42	1 46	20 24	10 53	23 22	23 21	13 26	7 19	5 38					
F 4	22 50	21 43	2 48	18 40	4 43	14 26	0s 4	16 0	1 14	7 33	1 17	0 9	2 15	21 13	0 30	13 42	1 46	20 25	10 53	23 22	23 21	13 28	7 17	5 38					
S 5	22 45	23 24	1 37	18 41	4 43	14 8	0 13	15 48	1 13	7 34	1 16	0 8	2 15	21 13	0 30	13 41	1 46	20 25	10 54	23 22	23 21	13 30	7 15	5 37					
S 6	22 39	23 35	0 21	18 43	4 41	13 51	0 23	15 36	1 13	7 36	1 16	0 8	2 15	21 12	0 30	13 41	1 46	20 26	10 54	23 22	23 21	13 32	7 14	5 36					
M 7	22 33	22 16	0s56	18 46	4 38	13 34	0 33	15 24	1 13	7 37	1 16	0 8	2 16	21 11	0 30	13 41	1 46	20 26	10 54	23 22	23 21	13 34	7 12	5 36					
T 8	22 26	19 39	2 8	18 50	4 33	13 17	0 43	15 12	1 12	7 39	1 16	0 8	2 16	21 11	0 30	13 41	1 46	20 27	10 54	23 22	23 21	13 36	7 10	5 35					
W 9	22 19	16 2	3 11	18 56	4 28	13 0	0 54	14 59	1 12	7 40	1 15	0 8	2 16	21 10	0 30	13 41	1 46	20 27	10 55	23 22	23 21	13 38	7 8	5 35					
T 10	22 12	11 43	4 3	19 3	4 21	12 44	1 5	14 47	1 12	7 42	1 15	0 8	2 16	21 9	0 30	13 41	1 46	20 28	10 55	23 22	23 21	13 40	7 7	5 34					
F 11	22 4	6 58	4 41	19 11	4 13	12 28	1 16	14 34	1 11	7 43	1 15	0 8	2 17	21 8	0 30	13 41	1 46	20 28	10 55	23 22	23 21	13 43	7 5	5 34					
S 12	21 56	2 4	5 5	19 19	4 4	12 12	1 28	14 21	1 11	7 45	1 14	0 8	2 17	21 8	0 30	13 41	1 46	20 29	10 55	23 22	23 20	13 45	7 3	5 33					
S 13	21 47	2s50	5 14	19 29	3 55	11 57	1 40	14 9	1 10	7 47	1 14	0 8	2 17	21 7	0 30	13 41	1 46	20 29	10 56	23 22	23 20	13 47	7 1	5 33					
M14	21 38	7 32	5 9	19 38	3 44	11 42	1 52	13 56	1 10	7 48	1 14	0 8	2 17	21 6	0 30	13 41	1 46	20 30	10 56	23 22	23 20	13 49	6 59	5 32					
T 15	21 29	11 55	4 51	19 49	3 33	11 28	2 4	13 43	1 10	7 50	1 14	0 8	2 18	21 6	0 30	13 41	1 46	20 31	10 56	23 22	23 20	13 51	6 57	5 32					
W16	21 19	15 49	4 21	20 0	3 21	11 14	2 17	13 30	1 9	7 52	1 13	0 9	2 18	21 5	0 30	13 41	1 46	20 31	10 56	23 22	23 20	13 53	6 55	5 31					
T 17	21 9	19 7	3 39	20 11	3 9	11 1	2 30	13 17	1 9	7 54	1 13	0 9	2 18	21 4	0 30	13 41	1 46	20 32	10 57	23 22	23 20	13 55	6 53	5 31					
F 18	20 59	21 38	2 47	20 22	2 56	10 48	2 43	13 3	1 8	7 56	1 13	0 9	2 19	21 3	0 30	13 41	1 46	20 32	10 57	23 22	23 20	13 57	6 51	5 31					
S 19	20 48	23 12	1 47	20 33	2 43	10 36	2 56	12 50	1 8	7 58	1 13	0 10	2 19	21 3	0 30	13 41	1 46	20 33	10 57	23 22	23 20	13 59	6 49	5 30					
S 20	20 37	23 40	0 41	20 44	2 30	10 24	3 10	12 37	1 8	8 0	1 13	0 10	2 19	21 2	0 30	13 41	1 45	20 33	10 57	23 22	23 20	14 1	6 47	5 30					
M21	20 26	22 55	0n28	20 54	2 16	10 13	3 23	12 23	1 7	8 3	1 12	0 10	2 19	21 1	0 30	13 41	1 45	20 34	10 58	23 22	23 20	14 3	6 45	5 29					
T 22	20 14	20 55	1 38	21 4	2 2	10 3	3 37	12 10	1 7	8 5	1 12	0 11	2 20	21 1	0 30	13 41	1 45	20 35	10 58	23 22	23 19	14 5	6 43	5 29					
W23	20 2	17 44	2 44	21 12	1 48	9 53	3 51	11 56	1 6	8 7	1 12	0 11	2 20	21 0	0 30	13 41	1 45	20 35	10 58	23 22	23 19	14 7	6 41	5 28					
T 24	19 50	13 32	3 42	21 20	1 34	9 44	4 5	11 42	1 6	8 10	1 12	0 12	2 20	20 59	0 30	13 41	1 45	20 36	10 58	23 22	23 19	14 9	6 38	5 28					
F 25	19 37	8 33	4 28	21 27	1 20	9 36	4 19	11 29	1 6	8 12	1 11	0 12	2 20	20 58	0 30	13 41	1 45	20 36	10 58	23 22	23 19	14 11	6 36	5 28					
S 26	19 24	3 3	4 58	21 33	1 6	9 28	4 32	11 15	1 5	8 14	1 11	0 13	2 21	20 58	0 30	13 41	1 45	20 37	10 59	23 21	23 19	14 13	6 34	5 27					
S 27	19 10	2n38	5 10	21 36	0 52	9 22	4 46	11 1	1 5	8 17	1 11	0 14	2 21	20 57	0 30	13 41	1 45	20 38	10 59	23 21	23 19	14 16	6 32	5 27					
M28	18 57	8 12	5 3	21 39	0 38	9 16	5 0	10 47	1 4	8 19	1 11	0 14	2 21	20 56	0 30	13 41	1 45	20 38	10 59	23 21	23 19	14 18	6 30	5 26					
T 29	18 43	13 20	4 37	21 39	0 25	9 11	5 13	10 33	1 4	8 22	1 10	0 15	2 21	20 55	0 30	13 41	1 45	20 39	10 59	23 21	23 19	14 20	6 27	5 26					
W30	18 28	17 41	3 54	21 37	0 12	9 6	5 27	10 19	1 4	8 25	1 10	0 16	2 22	20 55	0 30	13 41	1 45	20 39	10 59	23 21	23 19	14 22	6 25	5 26					
T 31	18n14	21n 0	2n57	21n33	0n 0	9n 3	5s40	10n 4	1n 3	8s27	1n10	0s17	2s22	20n54	0n30	13s41	1n45	20s40	10s59	23s21	23s18	14s24	6n23	5s25					

ASTRODIENST EPHEMERIS for the year 2290

geocentric

AUGUST 2290

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 38 45	8♂59°44	5♂37	24♂13	20°R41	7♂10	24♂47	4°R45	28♂39	11♂49	2°R50	26♂26	24♂57	26♂55	0♂7	F 1
S 2	20 42 42	9°57'05	19°27	26° 4	20♂ 9	7°48	24°54	4°Y44	28°43	11°49	2°K49	26°R27	24°54	27° 1	0°14	S 2
S 3	20 46 38	10°54'28	3♂ 7	27°58	19°36	8°25	25° 1	4°42	28°46	11°50	2°47	26°27	24°51	27° 8	0°22	S 3
M 4	20 50 35	11°51'52	16°36	29°55	19° 2	9° 3	25° 8	4°40	28°50	11°50	2°46	26°26	24°48	27°15	0°30	M 4
T 5	20 54 31	12°49'16	29°54	1♂54	18°27	9°40	25°15	4°38	28°53	11°50	2°45	26°22	24°44	27°21	0°38	T 5
W 6	20 58 28	13°46'42	12♂59	3°55	17°51	10°18	25°23	4°36	28°57	11°51	2°44	26°16	24°41	27°28	0°46	W 6
T 7	21 2 24	14°44'08	25°51	5°57	17°14	10°55	25°31	4°34	29° 1	11°51	2°43	26° 8	24°38	27°35	0°54	T 7
F 8	21 6 21	15°41'35	8♂28	8° 0	16°37	11°33	25°38	4°32	29° 4	11°52	2°41	25°59	24°35	27°41	1° 1	F 8
S 9	21 10 18	16°39'03	20°52	10° 4	16° 0	12°11	25°46	4°30	29° 8	11°52	2°40	25°50	24°32	27°48	1° 9	S 9
S 10	21 14 14	17°36'31	3♂ 3	12° 9	15°22	12°48	25°54	4°28	29°11	11°53	2°39	25°42	24°28	27°55	1°17	S 10
M 11	21 18 11	18°34'01	15° 4	14°14	14°45	13°26	26° 2	4°25	29°15	11°53	2°38	25°35	24°25	28° 2	1°25	M 11
T 12	21 22 7	19°31'31	26°57	16°18	14° 9	14° 4	26°11	4°23	29°18	11°54	2°36	25°31	24°22	28° 8	1°33	T 12
W 13	21 26 4	20°29'02	8♂48	18°23	13°33	14°41	26°19	4°20	29°22	11°54	2°35	25°28	24°19	28°15	1°41	W 13
T 14	21 30 0	21°26'33	20°40	20°26	12°58	15°19	26°28	4°17	29°25	11°55	2°34	25°D27	24°16	28°22	1°49	T 14
F 15	21 33 57	22°24'06	2♂40	22°29	12°25	15°57	26°36	4°14	29°29	11°56	2°33	25°27	24°13	28°28	1°57	F 15
S 16	21 37 53	23°21'39	14°51	24°32	11°53	16°35	26°45	4°12	29°32	11°57	2°31	25°28	24° 9	28°35	2° 5	S 16
S 17	21 41 50	24°19'14	27°19	26°33	11°22	17°13	26°54	4° 9	29°35	11°57	2°30	25°R29	24° 6	28°42	2°14	S 17
M 18	21 45 47	25°16'49	10♂ 8	28°33	10°53	17°50	27° 3	4° 6	29°39	11°58	2°29	25°28	24° 3	28°48	2°22	M 18
T 19	21 49 43	26°14'25	23°21	0♂31	10°26	18°28	27°12	4° 3	29°42	11°59	2°27	25°25	24° 0	28°55	2°30	T 19
W 20	21 53 40	27°12'02	7♂ 0	2°29	10° 1	19° 6	27°21	3°59	29°46	12° 0	2°26	25°19	23°57	29° 2	2°38	W 20
T 21	21 57 36	28° 9'41	21° 2	4°25	9°39	19°44	27°30	3°56	29°49	12° 1	2°25	25°11	23°54	29° 9	2°46	T 21
F 22	22 1 33	29° 7'20	5♂25	6°20	9°18	20°22	27°39	3°53	29°52	12° 2	2°23	25° 2	23°50	29°15	2°54	F 22
S 23	22 5 29	0♂ 5'01	20° 2	8°13	8°59	21° 0	27°49	3°49	29°56	12° 3	2°22	24°52	23°47	29°22	3° 2	S 23
S 24	22 9 26	1° 2'43	4°Y45	10° 5	8°43	21°38	27°58	3°46	29°59	12° 3	2°21	24°43	23°44	29°29	3°10	S 24
M 25	22 13 22	2° 0'27	19°27	11°56	8°30	22°16	28° 8	3°42	0♂ 2	12° 4	2°20	24°35	23°41	29°35	3°18	M 25
T 26	22 17 19	2° 58'12	4♂ 2	13°45	8°19	22°54	28°18	3°39	0° 5	12° 6	2°18	24°30	23°38	29°42	3°27	T 26
W 27	22 21 16	3°55'59	18°23	15°33	8°10	23°33	28°28	3°35	0° 8	12° 7	2°17	24°27	23°34	29°49	3°35	W 27
T 28	22 25 12	4°53'48	2♂30	17°20	8° 3	24°11	28°38	3°31	0°12	12° 8	2°16	24°D26	23°31	29°55	3°43	T 28
F 29	22 29 9	5°51'39	16°21	19° 5	7°59	24°49	28°48	3°28	0°15	12° 9	2°14	24°27	23°28	0♂ 2	3°51	F 29
S 30	22 33 5	6°49'31	29°56	20°48	7°D58	25°27	28°58	3°24	0°18	12°10	2°13	24°R27	23°25	0° 9	3°59	S 30
S 31	22 37 2	7♂47'25	13♂17	22♂31	7♂59	26♂ 5	29♂ 8	3°Y20	0♂21	12♂11	2°K12	24♂25	23♂22	0♂16	4♂ 7	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17n59	23n 1	1n51	21n27	0n13	9n 0	5s52	9n50	1n 3	8s30	1n10	0s17	2s22	20n53	0n30	F 1
S 2	17 44	23 37	0 38	21 18	0 24	8 58	6 4	9 36	1 2	8 33	1 9	0 18	2 23	20 53	0 30	S 2
S 3	17 28	22 46	0s36	21 6	0 35	8 57	6 16	9 21	1 2	8 36	1 9	0 19	2 23	20 52	0 30	S 3
M 4	17 12	20 36	1 47	20 52	0 45	8 57	6 27	9 7	1 2	8 38	1 9	0 20	2 23	20 51	0 30	M 4
T 5	16 56	17 22	2 50	20 36	0 55	8 57	6 38	8 53	1 1	8 41	1 9	0 21	2 23	20 50	0 30	T 5
W 6	16 40	13 18	3 44	20 16	1 3	8 58	6 48	8 38	1 1	8 44	1 9	0 22	2 24	20 50	0 30	W 6
T 7	16 23	8 43	4 25	19 54	1 11	9 0	6 57	8 23	1 0	8 47	1 8	0 23	2 24	20 49	0 30	T 7
F 8	16 6	3 51	4 52	19 30	1 18	9 3	7 6	8 9	1 0	8 50	1 8	0 24	2 24	20 48	0 30	F 8
S 9	15 49	1s 4	5 5	19 3	1 24	9 6	7 14	7 54	0 59	8 53	1 8	0 25	2 24	20 47	0 30	S 9
S 10	15 32	5 51	5 4	18 34	1 30	9 10	7 21	7 39	0 59	8 56	1 8	0 27	2 24	20 47	0 30	S 10
M 11	15 14	10 22	4 49	18 3	1 35	9 15	7 27	7 24	0 59	9 0	1 8	0 28	2 25	20 46	0 30	M 11
T 12	14 56	14 26	4 22	17 29	1 38	9 20	7 33	7 9	0 58	9 3	1 7	0 29	2 25	20 45	0 30	T 12
W 13	14 38	17 56	3 43	16 54	1 41	9 25	7 37	6 54	0 58	9 6	1 7	0 30	2 25	20 45	0 30	W 13
T 14	14 20	20 43	2 55	16 17	1 43	9 31	7 41	6 39	0 57	9 9	1 7	0 31	2 25	20 44	0 30	T 14
F 15	14 1	22 36	1 59	15 39	1 45	9 37	7 44	6 24	0 57	9 12	1 7	0 33	2 26	20 43	0 30	F 15
S 16	13 43	23 29	0 57	14 59	1 45	9 44	7 46	6 9	0 56	9 16	1 7	0 34	2 26	20 42	0 30	S 16
S 17	13 24	23 13	0n10	14 18	1 45	9 51	7 47	5 54	0 56	9 19	1 6	0 35	2 26	20 42	0 30	S 17
M 18	13 4	21 44	1 18	13 36	1 45	9 58	7 48	5 39	0 56	9 22	1 6	0 37	2 26	20 41	0 30	M 18
T 19	12 45	19 2	2 23	12 53	1 44	10 5	7 47	5 24	0 55	9 26	1 6	0 38	2 26	20 40	0 30	T 19
W 20	12 25	15 14	3 22	12 9	1 42	10 12	7 46	5 9	0 55	9 29	1 6	0 40	2 27	20 40	0 30	W 20
T 21	12 6	10 29	4 11	11 25	1 39	10 20	7 45	4 53	0 54	9 33	1 6	0 41	2 27	20 39	0 30	T 21
F 22	11 46	5 5	4 46	10 40	1 36	10 28	7 42	4 38	0 54	9 36	1 5	0 43	2 27	20 38	0 30	F 22
S 23	11 26	0n41	5 2	9 54	1 33	10 35	7 39	4 23	0 53	9 40	1 5	0 44	2 27	20 38	0 30	S 23
S 24	11 5	6 27	4 58	9 9	1 29	10 43	7 36	4 7	0 53	9 43	1 5	0 46	2 27	20 37	0 30	S 24
M 25	10 45	11 51	4 35	8 23	1 24	10 50	7 32	3 52	0 53	9 47	1 5	0 47	2 28	20 36	0 30	M 25
T 26	10 24	16 31	3 54	7 36	1 20	10 57	7 27	3 37	0 52	9 51	1 5	0 49	2 28	20 36	0 30	T 26
W 27	10 3	20 9	2 59	6 50	1 15	11 4	7 22	3 21	0 52	9 54	1 4	0 50	2 28	20 35	0 30	W 27
T 28	9 42	22 29	1 54	6 4	1 9	11 11	7 16	3 6	0 51	9 58	1 4	0 52	2 28	20 34	0 30	T 28
F 29	9 21	23 25	0 43	5 17	1 3	11 18	7 10	2 50	0 51	10 2	1 4	0 54	2 28	20 34	0 30	F 29
S 30	9 0	22 55	0s29	4 31	0 57	11 25	7 4	2 34	0 50	10 5	1 4	0 55	2 29	20 33	0 30	S 30
S 31	8n38	21n 7	1s38	3n45	0n51	11n31	6s57	2n19	0n50	10s 9	1n 4	0s57	2s29	20n32	0n31	S 31

Julian Day Number = 2557677.5, Delta T = 280.97 sec
 Ecliptic obliquity = 23°24'04, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 28°48'07, Lahiri = 27°55'07

ASTRODIENST EPHEMERIS for the year 2290
geocentric

SEPTEMBER 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 40 58	8♎45'21	26♏25	24♎12	8♏ 2	26♎44	29♏18	3°R16	0♏24	12♎12	2°R10	24°R22	23♎19	0♎22	4♎15	M 1
T 2	22 44 55	9°43'19	9♏22	25°52	8° 7	27°22	29°29	3°Y12	0°27	12°14	2°H 9	24♎15	23°15	0°29	4°24	T 2
W 3	22 48 51	10°41'18	22° 7	27°30	8°15	28° 0	29°39	3° 8	0°30	12°15	2° 8	24° 6	23°12	0°36	4°32	W 3
T 4	22 52 48	11°39'19	4♎41	29° 7	8°24	28°39	29°50	3° 4	0°33	12°16	2° 7	23°55	23° 9	0°42	4°40	T 4
F 5	22 56 45	12°37'21	17° 5	0♏43	8°36	29°17	0♎ 0	3° 0	0°36	12°17	2° 5	23°41	23° 6	0°49	4°48	F 5
S 6	23 0 41	13°35'25	29°19	2°18	8°50	29°56	0°11	2°55	0°39	12°19	2° 4	23°28	23° 3	0°56	4°56	S 6
S 7	23 4 38	14°33'31	11♏23	3°51	9° 6	0♏34	0°22	2°51	0°42	12°20	2° 3	23°15	23° 0	1° 2	5° 4	S 7
M 8	23 8 34	15°31'38	23°20	5°23	9°24	1°13	0°33	2°47	0°45	12°21	2° 2	23° 4	22°56	1° 9	5°12	M 8
T 9	23 12 31	16°29'46	5♎10	6°54	9°43	1°51	0°43	2°42	0°48	12°23	2° 0	22°56	22°53	1°16	5°20	T 9
W10	23 16 27	17°27'57	16°59	8°24	10° 5	2°30	0°54	2°38	0°50	12°24	1°59	22°50	22°50	1°22	5°28	W10
T 11	23 20 24	18°26'08	28°49	9°52	10°28	3° 8	1° 6	2°34	0°53	12°26	1°58	22°47	22°47	1°29	5°37	T 11
F 12	23 24 20	19°24'21	10♎46	11°19	10°53	3°47	1°17	2°29	0°56	12°27	1°57	22°46	22°44	1°36	5°45	F 12
S 13	23 28 17	20°22'36	22°54	12°45	11°20	4°26	1°28	2°25	0°59	12°29	1°55	22°46	22°40	1°43	5°53	S 13
S 14	23 32 14	21°20'52	5♏19	14°10	11°48	5° 4	1°39	2°20	1° 1	12°30	1°54	22°46	22°37	1°49	6° 1	S 14
M15	23 36 10	22°19'10	18° 7	15°33	12°17	5°43	1°51	2°16	1° 4	12°32	1°53	22°44	22°34	1°56	6° 9	M15
T 16	23 40 7	23°17'29	1♏21	16°54	12°48	6°22	2° 2	2°11	1° 6	12°34	1°52	22°41	22°31	2° 3	6°17	T 16
W17	23 44 3	24°15'50	15° 4	18°15	13°21	7° 1	2°14	2° 7	1° 9	12°35	1°50	22°34	22°28	2° 9	6°25	W17
T 18	23 48 0	25°14'12	29°16	19°34	13°55	7°39	2°25	2° 2	1°11	12°37	1°49	22°26	22°25	2°16	6°33	T 18
F 19	23 51 56	26°12'36	13♎53	20°51	14°30	8°18	2°37	1°57	1°14	12°38	1°48	22°15	22°21	2°23	6°40	F 19
S 20	23 55 53	27°11'02	28°49	22° 7	15° 7	8°57	2°48	1°53	1°16	12°40	1°47	22° 4	22°18	2°29	6°48	S 20
S 21	23 59 49	28° 9'29	13♎54	23°21	15°45	9°36	3° 0	1°48	1°19	12°42	1°46	21°53	22°15	2°36	6°56	S 21
M22	0 3 46	29° 7'59	28°59	24°34	16°24	10°15	3°12	1°43	1°21	12°44	1°45	21°44	22°12	2°43	7° 4	M22
T 23	0 7 42	0♏ 6'31	13♎55	25°45	17° 4	10°54	3°24	1°39	1°23	12°45	1°44	21°38	22° 9	2°49	7°12	T 23
W24	0 11 39	1° 5'04	28°33	26°54	17°45	11°33	3°36	1°34	1°26	12°47	1°42	21°34	22° 5	2°56	7°20	W24
T 25	0 15 36	2° 3'41	12♎49	28° 1	18°27	12°12	3°48	1°30	1°28	12°49	1°41	21°32	22° 2	3° 3	7°27	T 25
F 26	0 19 32	3° 2'19	26°43	29° 5	19°11	12°51	4° 0	1°25	1°30	12°51	1°40	21°32	21°59	3° 9	7°35	F 26
S 27	0 23 29	4° 1'00	10♏15	0♎ 8	19°55	13°30	4°12	1°20	1°32	12°52	1°39	21°32	21°56	3°16	7°43	S 27
S 28	0 27 25	4°59'42	23°28	1° 8	20°41	14°10	4°24	1°16	1°34	12°54	1°38	21°31	21°53	3°23	7°50	S 28
M29	0 31 22	5°58'27	6♏23	2° 6	21°27	14°49	4°36	1°11	1°36	12°56	1°37	21°28	21°50	3°30	7°58	M29
T 30	0 35 18	6♏57'15	19♏ 5	3♎ 1	22♏14	15♏28	4♎48	1°Y 6	1♏38	12♎58	1°H36	21♎22	21♎46	3♎36	8♎ 6	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	8n16	18n12	2s41	2n59	0n44	11n37	6s50	2n 3	0n49	10s13	1n 4	0s59	2s29	20n32	0n31	13s50	1n43	20s58	11s 3	23s17	23s14	15s26	5n 0	5s18			
T 2	7 55	14 27	3 34	2 13	0 37	11 42	6 43	1 48	0 49	10 17	1 3	1 1	2 29	20 31	0 31	13 51	1 43	20 58	11 3	23 17	23 14	15 28	4 57	5 18			
W 3	7 33	10 5	4 15	1 27	0 30	11 48	6 36	1 32	0 48	10 21	1 3	1 2	2 29	20 31	0 31	13 51	1 43	20 59	11 3	23 16	23 14	15 30	4 54	5 18			
T 4	7 11	5 22	4 44	0 42	0 23	11 53	6 28	1 16	0 48	10 24	1 3	1 4	2 29	20 30	0 31	13 52	1 43	20 59	11 3	23 16	23 13	15 31	4 51	5 17			
F 5	6 49	0 31	4 58	0s 3	0 16	11 57	6 20	1 1	0 48	10 28	1 3	1 6	2 29	20 29	0 31	13 52	1 43	21 0	11 3	23 15	23 13	15 33	4 48	5 17			
S 6	6 27	4s18	4 59	0 47	0 8	12 1	6 12	0 45	0 47	10 32	1 3	1 8	2 30	20 29	0 31	13 52	1 43	21 0	11 3	23 14	23 13	15 35	4 45	5 17			
S 7	6 4	8 53	4 46	1 31	0 1	12 5	6 4	0 29	0 47	10 36	1 3	1 9	2 30	20 28	0 31	13 53	1 43	21 1	11 3	23 14	23 13	15 37	4 43	5 17			
M 8	5 42	13 4	4 20	2 15	0s 7	12 9	5 56	0 14	0 46	10 40	1 3	1 11	2 30	20 27	0 31	13 53	1 43	21 1	11 3	23 13	23 13	15 39	4 40	5 17			
T 9	5 19	16 44	3 43	2 58	0 15	12 12	5 48	0s 2	0 46	10 44	1 2	1 13	2 30	20 27	0 31	13 54	1 43	21 1	11 3	23 13	23 13	15 41	4 37	5 17			
W10	4 57	19 43	2 57	3 41	0 23	12 14	5 39	0 18	0 45	10 48	1 2	1 15	2 30	20 26	0 31	13 54	1 43	21 2	11 3	23 12	23 12	15 43	4 34	5 17			
T 11	4 34	21 52	2 3	4 23	0 31	12 16	5 31	0 34	0 45	10 52	1 2	1 17	2 30	20 26	0 31	13 55	1 43	21 2	11 3	23 12	23 12	15 44	4 31	5 17			
F 12	4 11	23 4	1 3	5 5	0 39	12 18	5 22	0 49	0 44	10 56	1 2	1 19	2 30	20 25	0 31	13 55	1 43	21 3	11 2	23 12	23 12	15 46	4 28	5 17			
S 13	3 48	23 12	0n 1	5 46	0 48	12 19	5 14	1 5	0 44	11 0	1 2	1 21	2 30	20 25	0 31	13 56	1 43	21 3	11 2	23 12	23 12	15 48	4 25	5 17			
S 14	3 26	22 12	1 6	6 26	0 56	12 20	5 5	1 21	0 43	11 4	1 2	1 22	2 30	20 24	0 31	13 56	1 42	21 4	11 2	23 12	23 12	15 50	4 23	5 17			
M15	3 3	20 2	2 10	7 6	1 4	12 20	4 56	1 37	0 43	11 8	1 2	1 24	2 31	20 24	0 31	13 57	1 42	21 4	11 2	23 12	23 12	15 52	4 20	5 17			
T 16	2 40	16 45	3 9	7 45	1 12	12 20	4 48	1 52	0 42	11 12	1 1	1 26	2 31	20 23	0 31	13 57	1 42	21 4	11 2	23 12	23 11	15 53	4 17	5 17			
W17	2 17	12 29	3 59	8 23	1 21	12 19	4 39	2 8	0 42	11 16	1 1	1 28	2 31	20 22	0 31	13 58	1 42	21 5	11 2	23 12	23 11	15 55	4 14	5 17			
T 18	1 53	7 23	4 37	9 1	1 29	12 18	4 31	2 24	0 42	11 20	1 1	1 30	2 31	20 22	0 31	13 58	1 42	21 5	11 2	23 11	23 11	15 57	4 11	5 17			
F 19	1 30	1 45	4 57	9 37	1 37	12 16	4 22	2 40	0 41	11 24	1 1	1 32	2 31	20 21	0 31	13 59	1 42	21 6	11 2	23 11	23 11	15 59	4 8	5 17			
S 20	1 7	4n 6	4 58	10 13	1 45	12 14	4 13	2 55	0 41	11 28	1 1	1 34	2 31	20 21	0 31	14 0	1 42	21 6	11 2	23 10	23 11	16 1	4 5	5 17			
S 21	0 44	9 46	4 39	10 48	1 53	12 11	4 5	3 11	0 40	11 33	1 1	1 36	2 31	20 20	0 31	14 0	1 42	21 6	11 2	23 9	23 11	16 2	4 2	5 17			
M22	0 21	14 50	4 0	11 23	2 1	12 8	3 56	3 27	0 40	11 37	1 1	1 38	2 31	20 20	0 31	14 1	1 42	21 7	11 2	23 9	23 10	16 4	3 59	5 17			
T 23	0s 3	18 56	3 5	11 56	2 9	12 4	3 48	3 42	0 39	11 41	1 1	1 39	2 31	20 19	0 31	14 1	1 42	21 7	11 2	23 8	23 10	16 6	3 57	5 17			
W24	0 26	21 44	1 58	12 28	2 16	12 0	3 39	3 58	0 39	11 45	1 0	1 41	2 31	20 19	0 31	14 2	1 42	21 7	11 2	23 8	23 10	16 8	3 54	5 17			
T 25	0 49	23 4	0 46	12 59	2 24	11 55	3 31	4 14	0 38	11 49	1 0	1 43	2 31	20 19	0 31	14 2	1 42	21 8	11 2	23 8	23 10	16 10	3 51	5 17			
F 26	1 12	22 54	0s27	13 29	2 31	11 50	3 23	4 29	0 38	11 53	1 0	1 45	2 31	20 18	0 31	14 3	1 42	21 8	11 2	23 8	23 10	16 11	3 48	5 17			
S 27	1 36	21 23	1 37	13 58	2 38	11 44	3 14	4 45	0 37	11 57	1 0	1 47	2 31	20 18	0 31	14 3	1 42	21 8	11 1	23 8	23 9	16 13	3 45	5 17			
S 28	1 59	18 44	2 40	14 26	2 45	11 38	3 6	5 1	0 37	12 2	1 0	1 49	2 31	20 17	0 31	14 4	1 42	21 8	11 1	23 8	23 9	16 15	3 42	5 17			
M29	2 22	15 12	3 34	14 52	2 52	11 31	2 58	5 16	0 36	12 6	1 0	1 51	2 31	20 17	0 31	14 5	1 42	21 9	11 1	23 8	23 9	16 17	3 39	5 17			
T 30	2s45	11n 2	4s15	15s17	2s58	11n24	2s50	5s32	0n36	12s10	1n 0	1s52	2s31	20n16	0n31	14s 5	1n42	21s 9	11s 1	23s 7	23s 9	16s18	3n36	5s18			

ASTRODIENST EPHEMERIS for the year 2290
geocentric

OCTOBER 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 39 15	7♂56'04	1♂34	3♂53	23♂ 2	16♂ 7	5♂ 1	1°R 2	1♂40	13♂ 0	1°R35	21°R13	21♂43	3♂43	8♂13	W 1
T 2	0 43 11	8°54'55	13°53	4°41	23°51	16°47	5°13	0°Y57	1°42	13° 2	1°K34	21♂ 1	21°40	3°50	8°21	T 2
F 3	0 47 8	9°53'49	26° 4	5°27	24°40	17°26	5°25	0°53	1°44	13° 4	1°33	20°49	21°37	3°56	8°28	F 3
S 4	0 51 5	10°52'44	8♂ 8	6° 8	25°31	18° 5	5°38	0°48	1°46	13° 6	1°32	20°35	21°34	4° 3	8°36	S 4
S 5	0 55 1	11°51'42	20° 4	6°45	26°22	18°45	5°50	0°43	1°48	13° 8	1°31	20°23	21°31	4°10	8°43	S 5
M 6	0 58 58	12°50'42	1♂56	7°18	27°14	19°24	6° 3	0°39	1°49	13°10	1°30	20°12	21°27	4°16	8°51	M 6
T 7	1 2 54	13°49'43	13°45	7°46	28° 6	20° 4	6°15	0°34	1°51	13°12	1°29	20° 4	21°24	4°23	8°58	T 7
W 8	1 6 51	14°48'47	25°33	8° 8	28°59	20°43	6°28	0°30	1°53	13°14	1°28	19°58	21°21	4°30	9° 5	W 8
T 9	1 10 47	15°47'52	7♂23	8°25	29°53	21°23	6°41	0°26	1°54	13°16	1°28	19°55	21°18	4°36	9°12	T 9
F 10	1 14 44	16°46'59	19°19	8°35	0♂47	22° 3	6°53	0°21	1°56	13°18	1°27	19°D54	21°15	4°43	9°20	F 10
S 11	1 18 40	17°46'08	1♂26	8°R39	1°42	22°42	7° 6	0°17	1°57	13°20	1°26	19°55	21°11	4°50	9°27	S 11
S 12	1 22 37	18°45'19	13°49	8°36	2°38	23°22	7°19	0°13	1°59	13°22	1°25	19°R56	21° 8	4°56	9°34	S 12
M13	1 26 34	19°44'32	26°32	8°25	3°34	24° 2	7°31	0° 8	2° 0	13°24	1°24	19°55	21° 5	5° 3	9°41	M13
T 14	1 30 30	20°43'46	9♂41	8° 7	4°31	24°42	7°44	0° 4	2° 2	13°26	1°24	19°54	21° 2	5°10	9°48	T 14
W15	1 34 27	21°43'02	23°18	7°40	5°28	25°21	7°57	29♂59	2° 3	13°28	1°23	19°50	20°59	5°17	9°55	W15
T 16	1 38 23	22°42'19	7♂25	7° 5	6°26	26° 1	8°10	29°56	2° 4	13°30	1°22	19°44	20°56	5°23	10° 2	T 16
F 17	1 42 20	23°41'39	22° 1	6°22	7°24	26°41	8°23	29°52	2° 5	13°33	1°21	19°36	20°52	5°30	10° 9	F 17
S 18	1 46 16	24°41'00	7°Y 0	5°31	8°23	27°21	8°36	29°48	2° 6	13°35	1°21	19°27	20°49	5°37	10°15	S 18
S 19	1 50 13	25°40'23	22°14	4°33	9°22	28° 1	8°49	29°44	2° 7	13°37	1°20	19°19	20°46	5°43	10°22	S 19
M20	1 54 9	26°39'49	7♂32	3°29	10°22	28°41	9° 1	29°40	2° 8	13°39	1°19	19°12	20°43	5°50	10°29	M20
T 21	1 58 6	27°39'16	22°43	2°19	11°22	29°21	9°14	29°36	2° 9	13°41	1°19	19° 7	20°40	5°57	10°35	T 21
W22	2 2 3	28°38'46	7♂38	1° 7	12°22	0♂ 1	9°27	29°32	2°10	13°43	1°18	19° 5	20°37	6° 3	10°42	W22
T 23	2 5 59	29°38'18	22°10	29♂53	13°23	0°41	9°40	29°29	2°11	13°45	1°18	19°D 4	20°33	6°10	10°48	T 23
F 24	2 9 56	0♂37'52	6♂16	28°40	14°24	1°21	9°53	29°25	2°12	13°48	1°17	19° 5	20°30	6°17	10°55	F 24
S 25	2 13 52	1°37'28	19°56	27°29	15°26	2° 2	10° 6	29°21	2°13	13°50	1°17	19° 6	20°27	6°23	11° 1	S 25
S 26	2 17 49	2°37'07	3♂10	26°24	16°28	2°42	10°19	29°18	2°14	13°52	1°16	19°R 7	20°24	6°30	11° 7	S 26
M27	2 21 45	3°36'48	16° 4	25°26	17°31	3°22	10°33	29°14	2°14	13°54	1°16	19° 6	20°21	6°37	11°14	M27
T 28	2 25 42	4°36'31	28°39	24°36	18°33	4° 2	10°46	29°11	2°15	13°57	1°15	19° 3	20°17	6°43	11°20	T 28
W29	2 29 38	5°36'16	10♂59	23°56	19°37	4°43	10°59	29° 8	2°15	13°59	1°15	18°58	20°14	6°50	11°26	W29
T 30	2 33 35	6°36'04	23° 8	23°27	20°40	5°23	11°12	29° 5	2°16	14° 1	1°14	18°52	20°11	6°57	11°32	T 30
F 31	2 37 31	7♂35'53	5♂ 9	23♂ 9	21♂44	6♂ 4	11♂25	29♂ 2	2♂16	14♂ 3	1°K14	18♂44	20♂ 8	7♂ 3	11♂38	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	3s 9	6n28	4s44	15s41	3s 4	11n16	2s42	5s47	0n35	12s14	1n 0	1s54	2s31	20n16	0n31	14s 6
T 2	3 32	1 43	4 59	16 2	3 10	11 7	2 34	6 3	0 35	12 18	0 59	1 56	2 31	20 16	0 31	14 6
F 3	3 55	3s 2	5 0	16 22	3 15	10 58	2 26	6 18	0 34	12 23	0 59	1 58	2 31	20 15	0 31	14 7
S 4	4 18	7 37	4 48	16 41	3 19	10 49	2 19	6 34	0 34	12 27	0 59	2 0	2 31	20 15	0 31	14 8
S 5	4 41	11 53	4 23	16 57	3 23	10 39	2 11	6 49	0 33	12 31	0 59	2 2	2 31	20 14	0 32	14 8
M 6	5 4	15 40	3 46	17 11	3 27	10 29	2 3	7 5	0 33	12 35	0 59	2 3	2 31	20 14	0 32	14 9
T 7	5 27	18 48	3 0	17 23	3 30	10 18	1 56	7 20	0 32	12 39	0 59	2 5	2 31	20 14	0 32	14 10
W 8	5 50	21 9	2 6	17 32	3 32	10 7	1 49	7 35	0 32	12 44	0 59	2 7	2 31	20 13	0 32	14 10
T 9	6 12	22 36	1 6	17 38	3 33	9 55	1 41	7 51	0 31	12 48	0 59	2 9	2 31	20 13	0 32	14 11
F 10	6 35	23 1	0 3	17 42	3 33	9 42	1 34	8 6	0 31	12 52	0 59	2 10	2 31	20 13	0 32	14 11
S 11	6 58	22 22	1n 1	17 42	3 32	9 30	1 27	8 21	0 30	12 56	0 59	2 12	2 31	20 12	0 32	14 12
S 12	7 20	20 37	2 4	17 39	3 30	9 16	1 20	8 36	0 30	13 0	0 59	2 14	2 31	20 12	0 32	14 13
M13	7 43	17 49	3 3	17 32	3 26	9 3	1 13	8 51	0 29	13 5	0 58	2 15	2 31	20 12	0 32	14 13
T 14	8 5	14 2	3 54	17 22	3 21	8 49	1 6	9 6	0 29	13 9	0 58	2 17	2 31	20 12	0 32	14 14
W15	8 27	9 25	4 34	17 7	3 15	8 34	1 0	9 21	0 28	13 13	0 58	2 18	2 31	20 11	0 32	14 15
T 16	8 49	4 9	4 59	16 47	3 6	8 19	0 53	9 36	0 28	13 17	0 58	2 20	2 31	20 11	0 32	14 15
F 17	9 11	1n31	5 5	16 24	2 56	8 4	0 47	9 51	0 27	13 21	0 58	2 21	2 31	20 11	0 32	14 16
S 18	9 33	7 14	4 52	15 55	2 44	7 48	0 40	10 6	0 27	13 26	0 58	2 23	2 30	20 11	0 32	14 17
S 19	9 54	12 37	4 17	15 23	2 31	7 31	0 34	10 21	0 26	13 30	0 58	2 24	2 30	20 11	0 32	14 17
M20	10 16	17 13	3 24	14 47	2 15	7 15	0 28	10 35	0 26	13 34	0 58	2 26	2 30	20 10	0 32	14 18
T 21	10 37	20 38	2 17	14 7	1 58	6 58	0 22	10 50	0 25	13 38	0 58	2 27	2 30	20 10	0 32	14 19
W22	10 59	22 33	1 1	13 24	1 40	6 40	0 16	11 5	0 24	13 42	0 58	2 29	2 30	20 10	0 32	14 19
T 23	11 20	22 54	0s17	12 40	1 20	6 22	0 10	11 19	0 24	13 46	0 58	2 30	2 30	20 10	0 32	14 20
F 24	11 40	21 44	1 32	11 55	1 0	6 4	0 4	11 34	0 23	13 51	0 58	2 31	2 30	20 10	0 32	14 20
S 25	12 1	19 18	2 39	11 11	0 39	5 45	0n 1	11 48	0 23	13 55	0 58	2 33	2 30	20 10	0 32	14 21
S 26	12 22	15 55	3 35	10 28	0 19	5 26	0 7	12 2	0 22	13 59	0 58	2 34	2 30	20 9	0 32	14 22
M27	12 42	11 52	4 19	9 48	0n 1	5 7	0 12	12 17	0 22	14 3	0 58	2 35	2 30	20 9	0 32	14 22
T 28	13 2	7 24	4 50	9 12	0 21	4 47	0 18	12 31	0 21	14 7	0 57	2 37	2 29	20 9	0 32	14 23
W29	13 22	2 43	5 6	8 40	0 39	4 27	0 23	12 45	0 21	14 11	0 57	2 38	2 29	20 9	0 32	14 24
T 30	13 42	2s 0	5 8	8 14	0 56	4 7	0 28	12 59	0 20	14 15	0 57	2 39	2 29	20 9	0 32	14 24
F 31	14s 1	6s35	4s57	7s53	1n11	3n46	0n33	13s13	0n20	14s19	0n57	2s40	2s29	20n 9	0n32	14s25

Julian Day Number = 2557738.5, Delta T = 281.25 sec
Ecliptic obliquity = 23°24'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 28°48'15, Lahiri = 27°55'16

ASTRODIENST EPHEMERIS for the year 2290

geocentric

NOVEMBER 2290

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 41 28	8♍35°45'	17♌5	23°D 3	22♍48	6♍44	11♍38	28°R58	2♏17	14♍5	1°R14	18°R36	20♌5	7♍10	11♍44	S 1
S 2	2 45 25	9°35'39"	28°56'	23♌8	23°53'	7°25'	11°51'	28♌55	2°17'	14°8'	1♌13	18♌29	20°2'	7°17'	11°50'	S 2
M 3	2 49 21	10°35'35"	10♍46	23°24'	24°57'	8°5'	12°4'	28°53'	2°17'	14°10'	1°13'	18°22'	19°58'	7°24'	11°55'	M 3
T 4	2 53 18	11°35'32"	22°35'	23°50'	26°2'	8°46'	12°17'	28°50'	2°17'	14°12'	1°13'	18°18'	19°55'	7°30'	12°1'	T 4
W 5	2 57 14	12°35'32"	4♌26	24°25'	27°8'	9°27'	12°31'	28°47'	2°18'	14°14'	1°12'	18°15'	19°52'	7°37'	12°7'	W 5
T 6	3 1 11	13°35'34"	16°21'	25°9'	28°13'	10°7'	12°44'	28°44'	2°18'	14°17'	1°12'	18°D14	19°49'	7°44'	12°12'	T 6
F 7	3 5 7	14°35'37"	28°23'	26°0'	29°19'	10°48'	12°57'	28°42'	2°R18	14°19'	1°12'	18°14'	19°46'	7°50'	12°18'	F 7
S 8	3 9 4	15°35'41"	10♌34	26°59'	0♌25	11°29'	13°10'	28°40'	2°18'	14°21'	1°12'	18°15'	19°42'	7°57'	12°23'	S 8
S 9	3 13 0	16°35'48"	22°59'	28°3'	1°31'	12°10'	13°23'	28°37'	2°18'	14°23'	1°12'	18°17'	19°39'	8°4'	12°28'	S 9
M10	3 16 57	17°35'56"	5♌42	29°12'	2°38'	12°50'	13°36'	28°35'	2°18'	14°26'	1°11'	18°19'	19°36'	8°10'	12°33'	M10
T 11	3 20 54	18°36'05"	18°46'	0♍26	3°45'	13°31'	13°49'	28°33'	2°17'	14°28'	1°11'	18°R19	19°33'	8°17'	12°38'	T 11
W12	3 24 50	19°36'16"	2♌14	1°44'	4°52'	14°12'	14°3'	28°31'	2°17'	14°30'	1°11'	18°19'	19°30'	8°24'	12°43'	W12
T 13	3 28 47	20°36'29"	16°10'	3°5'	5°59'	14°53'	14°16'	28°29'	2°17'	14°32'	1°11'	18°17'	19°27'	8°30'	12°48'	T 13
F 14	3 32 43	21°36'42"	0♌32	4°29'	7°7'	15°34'	14°29'	28°27'	2°17'	14°35'	1°D11	18°14'	19°23'	8°37'	12°53'	F 14
S 15	3 36 40	22°36'58"	15°17'	5°55'	8°14'	16°15'	14°42'	28°25'	2°16'	14°37'	1°11'	18°10'	19°20'	8°44'	12°58'	S 15
S 16	3 40 36	23°37'14"	0♌21	7°22'	9°22'	16°56'	14°55'	28°23'	2°16'	14°39'	1°11'	18°6'	19°17'	8°50'	13°3'	S 16
M17	3 44 33	24°37'33"	15°34'	8°52'	10°30'	17°38'	15°8'	28°22'	2°15'	14°41'	1°11'	18°4'	19°14'	8°57'	13°7'	M17
T 18	3 48 29	25°37'53"	0♍46	10°23'	11°39'	18°19'	15°21'	28°20'	2°15'	14°43'	1°11'	18°2'	19°11'	9°4'	13°12'	T 18
W19	3 52 26	26°38'15"	15°47'	11°55'	12°47'	19°0'	15°34'	28°19'	2°14'	14°46'	1°12'	18°D1	19°8'	9°10'	13°16'	W19
T 20	3 56 23	27°38'38"	0♌30	13°27'	13°56'	19°41'	15°47'	28°18'	2°14'	14°48'	1°12'	18°1'	19°4'	9°17'	13°20'	T 20
F 21	4 0 19	28°39'04"	14°48'	15°0'	15°5'	20°23'	16°0'	28°17'	2°13'	14°50'	1°12'	18°2'	19°1'	9°24'	13°25'	F 21
S 22	4 4 16	29°39'31"	28°39'	16°34'	16°14'	21°4'	16°13'	28°16'	2°12'	14°52'	1°12'	18°4'	18°58'	9°30'	13°29'	S 22
S 23	4 8 12	0♌40'00"	12♌3	18°8'	17°23'	21°45'	16°26'	28°15'	2°11'	14°54'	1°12'	18°5'	18°55'	9°37'	13°33'	S 23
M24	4 12 9	1°40'31"	25°2'	19°43'	18°32'	22°27'	16°39'	28°14'	2°10'	14°57'	1°12'	18°6'	18°52'	9°44'	13°37'	M24
T 25	4 16 5	2°41'03"	7♍39	21°18'	19°42'	23°8'	16°52'	28°13'	2°9'	14°59'	1°13'	18°R6	18°48'	9°50'	13°40'	T 25
W26	4 20 2	3°41'37"	19°58'	22°52'	20°52'	23°50'	17°5'	28°12'	2°9'	15°1'	1°13'	18°5'	18°45'	9°57'	13°44'	W26
T 27	4 23 59	4°42'13"	2♌4	24°27'	22°2'	24°31'	17°18'	28°12'	2°8'	15°3'	1°13'	18°4'	18°42'	10°4'	13°48'	T 27
F 28	4 27 55	5°42'51"	14°1'	26°2'	23°12'	25°13'	17°31'	28°11'	2°6'	15°5'	1°14'	18°2'	18°39'	10°10'	13°51'	F 28
S 29	4 31 52	6°43'30"	25°51'	27°37'	24°22'	25°55'	17°43'	28°11'	2°5'	15°7'	1°14'	18°0'	18°36'	10°17'	13°55'	S 29
S 30	4 35 48	7♌44'11"	7♍40	29♍12	25♌32	26♍36	17♍56	28♌11	2♏4	15♍10	1♌14	17♌59	18♌33	10♍24	13♍58	S 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
S 1	14s21	10s53	4s32	7s39	1n24	3n26	0n37	13s26	0n19	14s23	0n57	2s41	2s29	20n 9	0n32	14s26	1n41	21s12	10s56	22s55	23s 2	17s12	2n 9	5s24	
S 2	14 40	14 45	3 56	7 29	1 36	3 4	0 42	13 40	0 19	14 28	0 57	2 42	2 29	20 9	0 33	14 26	1 41	21 12	10 55	22 54	23 2	17 13	2 7	5 24	
M 3	14 59	18 2	3 10	7 26	1 46	2 43	0 47	13 54	0 18	14 32	0 57	2 43	2 29	20 9	0 33	14 27	1 41	21 12	10 55	22 54	23 1	17 15	2 4	5 25	
T 4	15 17	20 34	2 15	7 28	1 54	2 21	0 51	14 7	0 17	14 36	0 57	2 44	2 28	20 9	0 33	14 28	1 41	21 12	10 55	22 53	23 1	17 17	2 2	5 25	
W 5	15 36	22 13	1 15	7 35	2 1	1 59	0 55	14 21	0 17	14 40	0 57	2 45	2 28	20 9	0 33	14 28	1 41	21 12	10 55	22 53	23 1	17 18	2 0	5 25	
T 6	15 54	22 52	0 10	7 46	2 6	1 37	1 0	14 34	0 16	14 44	0 57	2 46	2 28	20 9	0 33	14 29	1 41	21 12	10 55	22 53	23 1	17 20	1 57	5 25	
F 7	16 11	22 28	0n55	8 1	2 9	1 15	1 4	14 47	0 16	14 48	0 57	2 47	2 28	20 9	0 33	14 30	1 41	21 12	10 54	22 53	23 0	17 21	1 55	5 26	
S 8	16 29	21 0	1 59	8 20	2 12	0 52	1 8	15 1	0 15	14 52	0 57	2 48	2 28	20 9	0 33	14 30	1 41	21 11	10 54	22 53	23 0	17 23	1 53	5 26	
S 9	16 46	18 30	2 59	8 42	2 13	0 29	1 12	15 14	0 15	14 56	0 57	2 48	2 28	20 9	0 33	14 31	1 41	21 11	10 54	22 53	23 0	17 24	1 50	5 27	
M10	17 3	15 5	3 51	9 6	2 13	0 6	1 15	15 27	0 14	15 0	0 57	2 49	2 27	20 9	0 33	14 32	1 41	21 11	10 54	22 53	23 0	17 26	1 48	5 27	
T 11	17 20	10 50	4 33	9 33	2 12	0s17	1 19	15 39	0 14	15 3	0 57	2 50	2 27	20 9	0 33	14 32	1 41	21 11	10 53	22 53	22 59	17 28	1 46	5 27	
W12	17 36	5 57	5 2	10 1	2 10	0 40	1 22	15 52	0 13	15 7	0 57	2 50	2 27	20 9	0 33	14 33	1 41	21 11	10 53	22 53	22 59	17 29	1 43	5 28	
T 13	17 52	0 38	5 14	10 31	2 8	1 4	1 26	16 5	0 12	15 11	0 57	2 51	2 27	20 9	0 33	14 34	1 41	21 11	10 53	22 53	22 59	17 31	1 41	5 28	
F 14	18 8	4n54	5 7	11 2	2 5	1 27	1 29	16 17	0 12	15 15	0 57	2 52	2 27	20 9	0 33	14 34	1 41	21 10	10 53	22 53	22 59	17 32	1 39	5 28	
S 15	18 24	10 19	4 40	11 34	2 1	1 51	1 32	16 30	0 11	15 19	0 57	2 52	2 26	20 9	0 33	14 35	1 41	21 10	10 53	22 53	22 58	17 34	1 37	5 29	
S 16	18 39	15 13	3 53	12 7	1 56	2 15	1 35	16 42	0 11	15 23	0 57	2 53	2 26	20 10	0 33	14 36	1 41	21 10	10 52	22 52	22 58	17 35	1 35	5 29	
M17	18 54	19 10	2 49	12 40	1 52	2 39	1 38	16 54	0 10	15 27	0 57	2 53	2 26	20 10	0 33	14 36	1 41	21 10	10 52	22 52	22 58	17 37	1 33	5 29	
T 18	19 8	21 48	1 34	13 13	1 46	3 3	1 41	17 6	0 10	15 30	0 57	2 53	2 26	20 10	0 33	14 37	1 41	21 10	10 52	22 52	22 58	17 38	1 31	5 30	
W19	19 22	22 51	0 12	13 47	1 41	3 27	1 43	17 18	0 9	15 34	0 57	2 54	2 26	20 10	0 33	14 38	1 41	21 9	10 52	22 52	22 57	17 40	1 29	5 30	
T 20	19 36	22 16	1s 8	14 20	1 35	3 52	1 46	17 30	0 8	15 38	0 57	2 54	2 26	20 10	0 33	14 38	1 41	21 9	10 51	22 52	22 57	17 41	1 27	5 31	
F 21	19 50	20 13	2 23	14 54	1 29	4 16	1 48	17 41	0 8	15 42	0 57	2 54	2 25	20 10	0 33	14 39	1 41	21 9	10 51	22 52	22 57	17 43	1 25	5 31	
S 22	20 3	17 2	3 26	15 27	1 23	4 40	1 50	17 53	0 7	15 46	0 57	2 55	2 25	20 11	0 33	14 39	1 41	21 8	10 51	22 52	22 57	17 44	1 23	5 31	
S 23	20 15	13 3	4 16	15 59	1 16	5 5	1 53	18 4	0 7	15 49	0 57	2 55	2 25	20 11	0 33	14 40	1 41	21 8	10 51	22 52	22 56	17 46	1 21	5 32	
M24	20 28	8 34	4 51	16 31	1 10	5 29	1 55	18 15	0 6	15 53	0 57	2 55	2 25	20 11	0 33	14 41	1 41	21 8	10 50	22 52	22 56	17 47	1 19	5 32	
T 25	20 40	3 52	5 11	17 3	1 3	5 54	1 57	18 26	0 6	15 57	0 57	2 55	2 24	20 11	0 33	14 41	1 41	21 8	10 50	22 52	22 56	17 49	1 17	5 33	
W26	20 51	0s53	5 16	17 33	0 56	6 18	1 58	18 37	0 5	16 0	0 57	2 55	2 24	20 12	0 33	14 42	1 41	21 7	10 50	22 52	22 56	17 50	1 16	5 33	
T 27	21 3	5 31	5 7	18 4	0 49	6 43	2 0	18 48	0 4	16 4	0 57	2 55	2 24	20 12	0 33	14 42	1 41	21 7	10 50	22 52	22 55	17 52	1 14	5 33	
F 28	21 13	9 53	4 45	18 33	0 42	7 7	2 2	18 59	0 4	16 7	0 57	2 55	2 24	20 12	0 33	14 43	1 41	21 7	10 50	22 52	22 55	17 53	1 12	5 34	
S 29	21 24	13 52	4 10	19 2	0 35	7 31	2 3	19 9	0 3	16 11	0 57	2 55	2 24	20 12	0 33	14 44	1 42	21 6	10 49	22 52	22 55	17 55	1 10	5 34	
S 30	21s34	17s17	3s25	19s29	0n28	7s56	2n 4	19s19	0n 3	16s15	0n57	2s55	2s23	20n13	0n34	14s44	1n42	21s 6	10s49	22s51	22s54	17s56	1n 9	5s35	

ASTRODIENST EPHEMERIS for the year 2290

geocentric

DECEMBER 2290

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 39 45	8♂44'53	19♂30	0♂47	26♂43	27♂18	18♂9	28♂D11	2♂R 3	15♂12	1♂K15	17♂R57	18♂29	10♂30	14♂1	M 1
T 2	4 43 41	9♂45'37	1♂23	2♂21	27♂53	28♂0	18♂22	28♂K11	2♂Ω 2	15♂14	1♂15	17♂256	18♂26	10♂37	14♂4	T 2
W 3	4 47 38	10♂46'22	13♂21	3♂56	29♂4	28♂42	18♂34	28♂11	2♂0	15♂16	1♂16	17♂D56	18♂23	10♂44	14♂7	W 3
T 4	4 51 34	11♂47'09	25♂26	5♂31	0♂15	29♂24	18♂47	28♂11	1♂59	15♂18	1♂16	17♂56	18♂20	10♂51	14♂10	T 4
F 5	4 55 31	12♂47'57	7♂340	7♂5	1♂26	0♂6	19♂0	28♂11	1♂58	15♂20	1♂17	17♂56	18♂17	10♂57	14♂13	F 5
S 6	4 59 28	13♂48'45	20♂4	8♂40	2♂37	0♂48	19♂12	28♂12	1♂56	15♂22	1♂17	17♂57	18♂14	11♂4	14♂16	S 6
S 7	5 3 24	14♂49'35	2♂41	10♂14	3♂48	1♂30	19♂25	28♂12	1♂55	15♂24	1♂18	17♂57	18♂10	11♂11	14♂18	S 7
M 8	5 7 21	15♂50'26	15♂33	11♂48	4♂59	2♂12	19♂37	28♂13	1♂53	15♂26	1♂19	17♂58	18♂7	11♂17	14♂21	M 8
T 9	5 11 17	16♂51'17	28♂41	13♂22	6♂11	2♂54	19♂50	28♂14	1♂52	15♂28	1♂19	17♂58	18♂4	11♂24	14♂23	T 9
W10	5 15 14	17♂52'09	12♂7	14♂57	7♂22	3♂36	20♂2	28♂15	1♂50	15♂30	1♂20	17♂58	18♂1	11♂31	14♂25	W10
T 11	5 19 10	18♂53'02	25♂53	16♂31	8♂34	4♂18	20♂14	28♂16	1♂48	15♂32	1♂21	17♂58	17♂58	11♂37	14♂27	T 11
F 12	5 23 7	19♂53'56	9♂59	18♂5	9♂46	5♂0	20♂27	28♂17	1♂47	15♂34	1♂21	17♂58	17♂54	11♂44	14♂29	F 12
S 13	5 27 3	20♂54'51	24♂24	19♂39	10♂57	5♂43	20♂39	28♂18	1♂45	15♂36	1♂22	17♂58	17♂51	11♂51	14♂31	S 13
S 14	5 31 0	21♂55'46	9♂4	21♂14	12♂9	6♂25	20♂51	28♂19	1♂43	15♂38	1♂23	17♂58	17♂48	11♂57	14♂33	S 14
M15	5 34 57	22♂56'42	23♂55	22♂48	13♂21	7♂7	21♂3	28♂21	1♂41	15♂40	1♂24	17♂59	17♂45	12♂4	14♂34	M15
T 16	5 38 53	23♂57'38	8♂49	24♂22	14♂33	7♂50	21♂15	28♂22	1♂39	15♂41	1♂24	17♂59	17♂42	12♂11	14♂36	T 16
W17	5 42 50	24♂58'36	23♂40	25♂56	15♂45	8♂32	21♂27	28♂24	1♂37	15♂43	1♂25	17♂R59	17♂39	12♂17	14♂37	W17
T 18	5 46 46	25♂59'34	8♂18	27♂31	16♂58	9♂15	21♂39	28♂26	1♂35	15♂45	1♂26	17♂59	17♂35	12♂24	14♂39	T 18
F 19	5 50 43	27♂0'33	22♂39	29♂5	18♂10	9♂57	21♂51	28♂27	1♂33	15♂47	1♂27	17♂58	17♂32	12♂31	14♂40	F 19
S 20	5 54 39	28♂1'33	6♂36	0♂340	19♂22	10♂40	22♂3	28♂29	1♂31	15♂49	1♂28	17♂57	17♂29	12♂37	14♂41	S 20
S 21	5 58 36	29♂2'34	20♂8	2♂15	20♂35	11♂22	22♂15	28♂31	1♂29	15♂50	1♂29	17♂55	17♂26	12♂44	14♂42	S 21
M22	6 2 32	0♂3'36	3♂14	3♂50	21♂48	12♂5	22♂27	28♂33	1♂27	15♂52	1♂30	17♂54	17♂23	12♂51	14♂43	M22
T 23	6 6 29	1♂4'38	15♂57	5♂25	23♂0	12♂48	22♂38	28♂36	1♂25	15♂54	1♂31	17♂53	17♂20	12♂57	14♂44	T 23
W24	6 10 26	2♂5'42	28♂20	7♂0	24♂13	13♂30	22♂50	28♂38	1♂23	15♂56	1♂32	17♂D52	17♂16	13♂4	14♂44	W24
T 25	6 14 22	3♂6'46	10♂27	8♂35	25♂26	14♂13	23♂2	28♂40	1♂21	15♂57	1♂33	17♂52	17♂13	13♂11	14♂45	T 25
F 26	6 18 19	4♂7'51	22♂23	10♂11	26♂39	14♂56	23♂13	28♂43	1♂19	15♂59	1♂34	17♂53	17♂10	13♂17	14♂45	F 26
S 27	6 22 15	5♂8'57	4♂13	11♂46	27♂52	15♂39	23♂24	28♂46	1♂16	16♂1	1♂35	17♂55	17♂7	13♂24	14♂45	S 27
S 28	6 26 12	6♂10'04	16♂1	13♂22	29♂5	16♂22	23♂36	28♂48	1♂14	16♂2	1♂36	17♂56	17♂4	13♂31	14♂46	S 28
M29	6 30 8	7♂11'11	27♂52	14♂58	0♂18	17♂5	23♂47	28♂51	1♂12	16♂4	1♂37	17♂58	17♂0	13♂37	14♂R46	M29
T 30	6 34 5	8♂12'19	9♂50	16♂35	1♂31	17♂48	23♂58	28♂54	1♂10	16♂5	1♂38	17♂59	16♂57	13♂44	14♂46	T 30
W31	6 38 1	9♂13'28	21♂56	18♂11	2♂44	18♂31	24♂9	28♂57	1♂Ω 7	16♂16	1♂K39	17♂R59	16♂54	13♂15	14♂45	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	21s44	20s0	2s31	19s56	0n21	8s20	2n6	19s30	0n2	16s18	0n57	2s55	2s23	20n13	0n34	14s45
T 2	21 53	21 53	1 31	20 22	0 14	8 44	2 7	19 40	0 1	16 22	0 57	2 55	2 23	20 13	0 34	14 45
W 3	22 1	22 47	0 25	20 47	0 7	9 8	2 8	19 49	0 1	16 25	0 57	2 54	2 23	20 14	0 34	14 46
T 4	22 10	22 38	0n42	21 11	0 0	9 32	2 9	19 59	0 0	16 28	0 57	2 54	2 23	20 14	0 34	14 47
F 5	22 18	21 23	1 47	21 34	0s7	9 56	2 9	20 9	0s0	16 32	0 57	2 54	2 22	20 14	0 34	14 47
S 6	22 25	19 7	2 49	21 56	0 13	10 19	2 10	20 18	0 1	16 35	0 57	2 53	2 22	20 15	0 34	14 48
S 7	22 32	15 53	3 44	22 17	0 20	10 43	2 11	20 27	0 2	16 39	0 57	2 53	2 22	20 15	0 34	14 48
M 8	22 39	11 52	4 29	22 36	0 27	11 6	2 11	20 36	0 2	16 42	0 57	2 52	2 22	20 15	0 34	14 49
T 9	22 45	7 13	5 0	22 55	0 33	11 29	2 11	20 45	0 3	16 45	0 57	2 52	2 21	20 16	0 34	14 49
W10	22 51	2 8	5 16	23 12	0 39	11 52	2 12	20 54	0 3	16 49	0 57	2 51	2 21	20 16	0 34	14 50
T 11	22 56	3n11	5 15	23 29	0 46	12 15	2 12	21 2	0 4	16 52	0 57	2 51	2 21	20 17	0 34	14 50
F 12	23 1	8 28	4 55	23 44	0 52	12 38	2 12	21 10	0 5	16 55	0 57	2 50	2 21	20 17	0 34	14 51
S 13	23 5	13 24	4 16	23 58	0 58	13 0	2 12	21 19	0 5	16 58	0 57	2 50	2 21	20 17	0 34	14 51
S 14	23 9	17 39	3 20	24 10	1 4	13 22	2 12	21 26	0 6	17 1	0 57	2 49	2 20	20 18	0 34	14 52
M15	23 13	20 49	2 10	24 21	1 9	13 44	2 11	21 34	0 6	17 5	0 57	2 48	2 20	20 18	0 34	14 52
T 16	23 16	22 34	0 51	24 32	1 15	14 6	2 11	21 42	0 7	17 8	0 57	2 47	2 20	20 19	0 34	14 53
W17	23 18	22 43	0s32	24 40	1 20	14 27	2 10	21 49	0 8	17 11	0 57	2 46	2 20	20 19	0 34	14 53
T 18	23 20	21 18	1 51	24 48	1 25	14 48	2 10	21 56	0 8	17 14	0 57	2 46	2 20	20 20	0 34	14 54
F 19	23 22	18 32	3 1	24 54	1 30	15 9	2 9	22 3	0 9	17 17	0 57	2 45	2 19	20 20	0 34	14 54
S 20	23 23	14 45	3 58	24 59	1 35	15 29	2 8	22 10	0 10	17 20	0 57	2 44	2 19	20 21	0 34	14 55
S 21	23 24	10 18	4 41	25 2	1 39	15 49	2 8	22 17	0 10	17 23	0 57	2 43	2 19	20 21	0 34	14 55
M22	23 24	5 32	5 7	25 4	1 43	16 9	2 7	22 23	0 11	17 26	0 57	2 42	2 19	20 22	0 34	14 56
T 23	23 24	0 40	5 17	25 5	1 47	16 28	2 6	22 29	0 11	17 29	0 57	2 41	2 18	20 22	0 34	14 56
W24	23 23	4s6	5 12	25 4	1 51	16 47	2 5	22 35	0 12	17 32	0 57	2 39	2 18	20 23	0 34	14 57
T 25	23 22	8 37	4 53	25 2	1 55	17 5	2 3	22 41	0 13	17 34	0 57	2 38	2 18	20 23	0 34	14 57
F 26	23 20	12 44	4 21	24 58	1 58	17 24	2 2	22 46	0 13	17 37	0 57	2 37	2 18	20 24	0 34	14 58
S 27	23 18	16 20	3 39	24 53	2 1	17 41	2 1	22 52	0 14	17 40	0 57	2 36	2 18	20 24	0 34	14 58
S 28	23 15	19 17	2 48	24 46	2 3	17 59	1 59	22 57	0 15	17 43	0 57	2 35	2 17	20 25	0 34	14 58
M29	23 12	21 25	1 49	24 38	2 5	18 15	1 58	23 2	0 15	17 46	0 58	2 33	2 17	20 25	0 34	14 59
T 30	23 9	22 38	0 45	24 29	2 7	18 32	1 56	23 6	0 16	17 48	0 58	2 32	2 17	20 26	0 34	14 59
W31	23s5	22s48	0n22	24s18	2s9	18s48	1n55	23s11	0s16	17s51	0n58	2s30	2s17	20n26	0n34	15s0

Julian Day Number = 2557799.5, Delta T = 281.52 sec

Ecliptic obliquity = 23°24'03, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 28°48'24, Lahiri = 27°55'24