



Astrodienst Ephemeris Tables for the year 1620

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 1620

geocentric

JANUARY 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 40 2	10°37'46"	28°11'09"	20°53'38"	15°38'38"	15°46'46"	6°15'15"	17°20'20"	26°46'46"	11°45'45"	10°37'37"	4°57'57"	4°40'40"	11°13'13"	28°33'33"	W 1
T 2	6 43 59	11° 8'57"	10°11'09"	22°32'32"	16°54'54"	16°33'33"	6°21'21"	17°11'11"	26°43'43"	11°45'45"	10°37'37"	4°58'58"	4°37'37"	11°19'19"	28° 6' 6"	T 2
F 3	6 47 55	12°10'08"	21°58'58"	24°10'10"	18° 9' 9"	17°20'20"	6°28'28"	17°11'11"	26°41'41"	11°45'45"	10°36'36"	4°58'58"	4°34'34"	11°26'26"	28° 9' 9"	F 3
S 4	6 51 52	13°11'19"	3°34'46"	25°48'48"	19°25'25"	18° 8' 8"	6°34'34"	17° 7' 7"	26°38'38"	11°46'46"	10°36'36"	4°R59'	4°30'30"	11°33'33"	28°13'13"	S 4
S 5	6 55 48	14°12'30"	15°33'33"	27°26'26"	20°40'40"	18°55'55"	6°41'41"	17° 3' 3"	26°36'36"	11°46'46"	10°35'35"	4°58'58"	4°27'27"	11°39'39"	28°16'16"	S 5
M 6	6 59 45	15°13'40"	27°21'21"	29° 3' 3"	21°56'56"	19°42'42"	6°48'48"	16°59'59"	26°33'33"	11°46'46"	10°35'35"	4°58'58"	4°24'24"	11°46'46"	28°19'19"	M 6
T 7	7 3 42	16°14'50"	9°13'13"	0°39'39"	23°11'11"	20°29'29"	6°55'55"	16°55'55"	26°31'31"	11°47'47"	10°34'34"	4°56'56"	4°21'21"	11°53'53"	28°22'22"	T 7
W 8	7 7 38	17°16'00"	21°10'10"	2°15'15"	24°26'26"	21°16'16"	7° 3' 3"	16°51'51"	26°28'28"	11°47'47"	10°34'34"	4°55'55"	4°18'18"	11°59'59"	28°25'25"	W 8
T 9	7 11 35	18°17'09"	3°14'14"	3°50'50"	25°42'42"	22° 3' 3"	7°10'10"	16°47'47"	26°26'26"	11°47'47"	10°34'34"	4°53'53"	4°14'14"	12° 6' 6"	28°29'29"	T 9
F 10	7 15 31	19°18'17"	15°30'30"	5°23'23"	26°57'57"	22°50'50"	7°18'18"	16°43'43"	26°23'23"	11°47'47"	10°33'33"	4°50'50"	4°11'11"	12°12'12"	28°32'32"	F 10
S 11	7 19 28	20°19'24"	27°59'59"	6°54'54"	28°13'13"	23°37'37"	7°25'25"	16°40'40"	26°20'20"	11°47'47"	10°33'33"	4°49'49"	4° 8' 8"	12°19'19"	28°35'35"	S 11
S 12	7 23 24	21°20'31"	10°44'44"	8°23'23"	29°28'28"	24°25'25"	7°33'33"	16°36'36"	26°18'18"	11°47'47"	10°33'33"	4°48'48"	4° 5' 5"	12°26'26"	28°39'39"	S 12
M13	7 27 21	22°21'37"	23°50'50"	9°50'50"	0°43'43"	25°12'12"	7°41'41"	16°33'33"	26°15'15"	11°R47'	10°33'33"	4°D47'	4° 2' 2"	12°32'32"	28°42'42"	M13
T 14	7 31 17	23°22'42"	7°13'13"	11°13'13"	1°59'59"	25°59'59"	7°50'50"	16°29'29"	26°13'13"	11°47'47"	10°32'32"	4°48'48"	3°59'59"	12°39'39"	28°46'46"	T 14
W15	7 35 14	24°23'46"	21°12'12"	12°33'33"	3°14'14"	26°46'46"	7°58'58"	16°26'26"	26°10'10"	11°47'47"	10°32'32"	4°49'49"	3°55'55"	12°46'46"	28°49'49"	W15
T 16	7 39 11	25°24'50"	5°13'13"	13°48'48"	4°29'29"	27°33'33"	8° 7' 7"	16°22'22"	26° 7' 7"	11°47'47"	10°32'32"	4°50'50"	3°52'52"	12°52'52"	28°53'53"	T 16
F 17	7 43 7	26°25'52"	20°11'11"	14°58'58"	5°45'45"	28°20'20"	8°15'15"	16°19'19"	26° 5' 5"	11°47'47"	10°32'32"	4°52'52"	3°49'49"	12°59'59"	28°56'56"	F 17
S 18	7 47 4	27°26'53"	5°11'11"	16° 2' 2"	7° 0' 0"	29° 7' 7"	8°24'24"	16°16'16"	26° 2' 2"	11°47'47"	10°32'32"	4°R52'	3°46'46"	13° 6' 6"	29° 0' 0"	S 18
S 19	7 51 0	28°27'54"	20°22'22"	17° 0' 0"	8°15'15"	29°54'54"	8°33'33"	16°13'13"	25°59'59"	11°47'47"	10°31'31"	4°51'51"	3°43'43"	13°12'12"	29° 4' 4"	S 19
M20	7 54 57	29°28'54"	5°13'13"	17°50'50"	9°30'30"	0°41'41"	8°42'42"	16°10'10"	25°57'57"	11°46'46"	10°31'31"	4°50'50"	3°40'40"	13°19'19"	29° 7' 7"	M20
T 21	7 58 53	0°29'52"	20°39'39"	18°31'31"	10°46'46"	1°28'28"	8°51'51"	16° 7' 7"	25°54'54"	11°46'46"	10°31'31"	4°46'46"	3°36'36"	13°26'26"	29°11'11"	T 21
W22	8 2 50	1°30'50"	5°12'12"	19° 4' 4"	12° 1' 1"	2°15'15"	9° 1' 1"	16° 5' 5"	25°52'52"	11°46'46"	10°31'31"	4°43'43"	3°33'33"	13°32'32"	29°15'15"	W22
T 23	8 6 46	2°31'48"	19°49'49"	19°26'26"	13°16'16"	3° 2' 2"	9°10'10"	16° 2' 2"	25°49'49"	11°46'46"	10°31'31"	4°39'39"	3°30'30"	13°39'39"	29°18'18"	T 23
F 24	8 10 43	3°32'44"	3°44'44"	19°38'38"	14°31'31"	3°49'49"	9°20'20"	15°59'59"	25°46'46"	11°45'45"	10°31'31"	4°35'35"	3°27'27"	13°46'46"	29°22'22"	F 24
S 25	8 14 40	4°33'40"	17°11'11"	19°R39'	15°46'46"	4°36'36"	9°29'29"	15°57'57"	25°44'44"	11°45'45"	10°D31'	4°32'32"	3°24'24"	13°52'52"	29°26'26"	S 25
S 26	8 18 36	5°34'35"	0°11'11"	19°29'29"	17° 2' 2"	5°23'23"	9°39'39"	15°55'55"	25°41'41"	11°44'44"	10°31'31"	4°D31'	3°20'20"	13°59'59"	29°30'30"	S 26
M27	8 22 33	6°35'29"	12°45'45"	19° 7' 7"	18°17'17"	6°10'10"	9°49'49"	15°52'52"	25°39'39"	11°44'44"	10°31'31"	4°31'31"	3°17'17"	14° 5' 5"	29°33'33"	M27
T 28	8 26 29	7°36'23"	25° 1' 1"	18°35'35"	19°32'32"	6°56'56"	9°59'59"	15°50'50"	25°36'36"	11°44'44"	10°31'31"	4°32'32"	3°14'14"	14°12'12"	29°37'37"	T 28
W29	8 30 26	8°37'16"	7°17'17"	17°52'52"	20°47'47"	7°43'43"	10° 9' 9"	15°48'48"	25°34'34"	11°43'43"	10°31'31"	4°34'34"	3°11'11"	14°19'19"	29°41'41"	W29
T 30	8 34 22	9°38'08"	18°55'55"	17° 0' 0"	22° 2' 2"	8°30'30"	10°20'20"	15°46'46"	25°31'31"	11°42'42"	10°31'31"	4°36'36"	3° 8' 8"	14°25'25"	29°45'45"	T 30
F 31	8 38 19	10°38'59"	0°34'42"	16°11'11"	23°17'17"	9°17'17"	10°17'30"	15°45'45"	25°29'29"	11°42'42"	10°32'32"	4°R37'	3° 5' 5"	14°32'32"	29°49'49"	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
W 1	23s 6	22s53	3s11	23s58	2s 7	23s30	0s56	17s14	1s 8	1n17	1s18	21n28	1s25	21n24	0n34	3s11	1n36	0n10	15s37	23s24	23s24	22s26	6s57	5n33	
T 2	23 1	24 13	2 14	23 41	2 6	23 22	0 58	16 59	1 8	1 20	1 18	21 28	1 25	21 24	0 34	3 11	1 36	0 11	15 37	23 24	23 24	22 24	6 57	5 33	
F 3	22 56	24 26	1 12	23 22	2 4	23 14	1 0	16 44	1 8	1 23	1 18	21 28	1 25	21 25	0 34	3 11	1 36	0 11	15 36	23 24	23 25	22 23	6 56	5 33	
S 4	22 50	23 33	0 7	23 2	2 2	23 5	1 1	16 30	1 7	1 26	1 18	21 28	1 25	21 25	0 34	3 11	1 36	0 11	15 36	23 24	23 25	22 21	6 55	5 33	
S 5	22 44	21 37	0n58	22 40	1 59	22 56	1 3	16 14	1 7	1 29	1 17	21 27	1 25	21 26	0 34	3 11	1 36	0 11	15 36	23 24	23 25	22 20	6 54	5 32	
M 6	22 37	18 45	2 1	22 16	1 55	22 46	1 5	15 59	1 6	1 32	1 17	21 27	1 24	21 26	0 34	3 11	1 36	0 11	15 35	23 24	23 25	22 18	6 53	5 32	
T 7	22 30	15 7	2 59	21 51	1 51	22 35	1 6	15 44	1 6	1 35	1 17	21 27	1 24	21 27	0 34	3 11	1 36	0 11	15 35	23 24	23 25	22 17	6 52	5 32	
W 8	22 22	10 51	3 49	21 25	1 46	22 23	1 8	15 28	1 5	1 38	1 17	21 27	1 24	21 27	0 34	3 11	1 36	0 12	15 35	23 24	23 25	22 16	6 52	5 31	
T 9	22 14	6 9	4 30	20 58	1 40	22 11	1 9	15 12	1 5	1 41	1 16	21 26	1 24	21 28	0 34	3 11	1 36	0 12	15 34	23 24	23 25	22 14	6 51	5 31	
F 10	22 6	1 8	4 59	20 29	1 34	21 58	1 11	14 56	1 4	1 44	1 16	21 26	1 24	21 28	0 34	3 11	1 36	0 12	15 34	23 24	23 25	22 13	6 50	5 31	
S 11	21 57	4n 0	5 14	19 59	1 26	21 45	1 12	14 40	1 4	1 48	1 16	21 26	1 23	21 29	0 34	3 11	1 36	0 12	15 34	23 24	23 25	22 11	6 49	5 31	
S 12	21 48	9 5	5 15	19 28	1 18	21 30	1 14	14 24	1 3	1 51	1 15	21 26	1 23	21 29	0 34	3 11	1 36	0 13	15 33	23 24	23 26	22 10	6 48	5 30	
M13	21 38	13 54	4 59	18 56	1 9	21 16	1 15	14 8	1 3	1 54	1 15	21 26	1 23	21 30	0 34	3 11	1 37	0 13	15 33	23 24	23 26	22 8	6 47	5 30	
T 14	21 28	18 11	4 27	18 24	0 59	21 0	1 16	13 52	1 2	1 58	1 15	21 26	1 23	21 30	0 34	3 11	1 37	0 13	15 33	23 24	23 26	22 7	6 46	5 30	
W15	21 17	21 37	3 39	17 51	0 48	20 44	1 18	13 35	1 2	2 1	1 15	21 25	1 23	21 31	0 34	3 11	1 37	0 13	15 32	23 24	23 26	22 5	6 45	5 30	
T 16	21 6	23 49	2 35	17 18	0 37	20 27	1 19	13 18	1 1	2 5	1 14	21 25	1 22	21 31	0 34	3 11	1 37	0 14	15 32	23 24	23 26	22 4	6 44	5 29	
F 17	20 55	24 28	1 20	16 46	0 24	20 10	1 20	13 1	1 1	2 9	1 14	21 25	1 22	21 32	0 34	3 11	1 37	0 14	15 32	23 24	23 26	22 2	6 43	5 29	
S 18	20 43	23 22	0s 2	16 13	0 10	19 52	1 21	12 44	1 0	2 12	1 14	21 25	1 22	21 32	0 34	3 11	1 37	0 14	15 31	23 24	23 26	22 1	6 42	5 29	
S 19	20 31	20 33	1 24	15 42	0n 4	19 34	1 22	12 27	0 59	2 16	1 14	21 25	1 22	21 33	0 34	3 11	1 37	0 14	15 31	23 24	23 26	21 59	6 41	5 29	
M20	20 18	16 19	2 41	15 12	0 20	19 15	1 23	12 10	0 59	2 20	1 14	21 25	1 22	21 33	0 34	3 11	1 37	0 15	15 31	23 24	23 26	21 58	6 40	5 29	
T 21	20 5	11 4	3 46	14 44	0 36	18 55	1 24	11 53	0 58	2 24	1 13	21 25	1 21	21 34	0 34	3 11	1 37	0 15	15 30	23 24	23 26	21 56	6 39	5 28	
W22	19 52	5 17	4 34	14 18	0 53	18 35	1 25	11 36	0 58	2 28	1 13	21 25	1 21	21 34	0 34	3 10	1 37	0 15	15 30	23 24	23 26	21 55	6 38	5 28	
T 23	19 38	0s37	5 4	13 55	1 10	18 14	1 25	11 18	0 57	2 31	1 13	21 25	1 21	21 35	0 34	3 10	1 37	0 16	15 30	23 24	23 27	21 53	6 37	5 28	
F 24	19 24	6 17	5 14	13 34	1 28	17 53	1 26	11 1	0 57	2 35	1 13	21 25	1 21	21 35	0 34	3 10	1 37	0 16	15 29	23 25	23 27	21 51	6 36	5 28	
S 25	19 10	11 28	5 6	13 17	1 45	17 31	1 27	10 43	0 56	2 40	1 12	21 25	1 21	21 36	0 34	3 10	1 37	0 16	15 29	23 25	23 27	21 50	6 35	5 28	
S 26	18 55	15 58	4 43	13 4	2 3	17 9	1 27	10 25	0 56	2 44	1 12	21 25	1 20	21 36	0 34	3 10	1 37	0 17	15 29	23 25	23 27	21 48	6 33	5 27	
M27	18 40	19 37	4 7	12 54	2 20	16 46	1 28	10 7	0 55	2 48	1 12	21 25	1 20	21 37	0 34	3 9	1 37	0 17	15 28	23 25	23 27	21 47	6 32	5 27	
T 28	18 24	22 18	3 20	12 49	2 36	16 23	1 28	9 49	0 54	2 52	1 12	21 25	1 20	21 37	0 34	3 9	1 37	0 17	15 28	23 25	23 27	21 45	6 31	5 27	
W29	18 9	23 55	2 25	12 47	2 51	16 0	1 29	9 31	0 54	2 56	1 11	21 25	1 20	21 38	0 34	3 9	1 37	0 18	15 28	23 25	23 27	21 44	6 30	5 27	
T 30	17 53	24 26	1 25	12 50	3 5	15 36	1 29	9 13	0 53	3 0	1 11	21 25	1 20	21 38	0 34	3 9	1 38	0 18	15 27	23 25	23 27	21 42	6 29	5 27	
F 31	17s36	23s51	0s21	12s56	3n17	15s11	1s29	8s55	0s53	3n 5	1s11	21n25	1s19	21n39	0n34	3s 8	1n38	0n18	15s27	23s24	23s27	21s41	6s28	5n27	

ASTRODIENST EPHEMERIS for the year 1620 geocentric

FEBRUARY 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 42 15	11°39'48	12°28	14°R56	24°32	10°H 4	10°Y41	15°R43	25°R26	11°R41	10°H32	4°R36	3°Z 1	14°Z39	29°53	S 1
S 2	8 46 12	12°40'37	24°16	13°46	25°47	10°51	10°51	15°H41	25°Z24	11°H41	10°32	4°Z34	2°58	14°45	29°57	S 2
M 3	8 50 9	13°41'25	6°9	12°35	27° 3	11°37	11° 2	15°40	25°21	11°40	10°32	4°30	2°55	14°52	0°H 0	M 3
T 4	8 54 5	14°42'11	18° 8	11°23	28°18	12°24	11°13	15°38	25°19	11°39	10°32	4°24	2°52	14°59	0° 4	T 4
W 5	8 58 2	15°42'56	0°H17	10°13	29°33	13°11	11°24	15°37	25°16	11°39	10°33	4°17	2°49	15° 5	0° 8	W 5
T 6	9 1 58	16°43'39	12°34	9° 7	0°H48	13°57	11°35	15°36	25°14	11°38	10°33	4° 9	2°46	15°12	0°12	T 6
F 7	9 5 55	17°44'21	25° 2	8° 6	2° 3	14°44	11°46	15°35	25°12	11°37	10°33	4° 1	2°42	15°19	0°16	F 7
S 8	9 9 51	18°45'02	7°Y43	7°10	3°18	15°31	11°58	15°34	25° 9	11°36	10°33	3°53	2°39	15°25	0°20	S 8
S 9	9 13 48	19°45'40	20°36	6°22	4°33	16°17	12° 9	15°33	25° 7	11°35	10°34	3°48	2°36	15°32	0°24	S 9
M10	9 17 44	20°46'17	3°H43	5°41	5°47	17° 4	12°20	15°32	25° 5	11°34	10°34	3°44	2°33	15°39	0°28	M10
T11	9 21 41	21°46'53	17° 8	5° 7	7° 2	17°50	12°32	15°32	25° 2	11°34	10°34	3°D42	2°30	15°45	0°32	T11
W12	9 25 38	22°47'26	0°H50	4°42	8°17	18°37	12°44	15°31	25° 0	11°33	10°35	3°43	2°26	15°52	0°36	W12
T13	9 29 34	23°47'58	14°52	4°24	9°32	19°23	12°55	15°31	24°58	11°32	10°35	3°44	2°23	15°58	0°40	T13
F14	9 33 31	24°48'28	29°13	4°14	10°47	20°10	13° 7	15°31	24°56	11°31	10°36	3°R44	2°20	16° 5	0°44	F14
S15	9 37 27	25°48'56	13°Z51	4°D11	12° 2	20°56	13°19	15°31	24°54	11°30	10°36	3°44	2°17	16°12	0°48	S15
S16	9 41 24	26°49'22	28°42	4°15	13°16	21°42	13°31	15°D31	24°51	11°29	10°37	3°42	2°14	16°18	0°52	S16
M17	9 45 20	27°49'46	13°Z39	4°25	14°31	22°29	13°43	15°31	24°49	11°28	10°37	3°37	2°11	16°25	0°56	M17
T18	9 49 17	28°50'09	28°34	4°41	15°46	23°15	13°55	15°31	24°47	11°26	10°38	3°30	2° 7	16°32	1° 1	T18
W19	9 53 13	29°50'30	13°H19	5° 3	17° 1	24° 1	14° 8	15°31	24°45	11°25	10°38	3°21	2° 4	16°38	1° 5	W19
T20	9 57 10	0°H50'49	27°44	5°31	18°15	24°48	14°20	15°32	24°43	11°24	10°39	3°11	2° 1	16°45	1° 9	T20
F21	10 1 7	1°51'06	11°H45	6° 3	19°30	25°34	14°32	15°32	24°41	11°23	10°39	3° 2	1°58	16°52	1°13	F21
S22	10 5 3	2°51'23	25°18	6°40	20°44	26°20	14°45	15°33	24°39	11°22	10°40	2°55	1°55	16°58	1°17	S22
S23	10 9 0	3°51'37	8°M24	7°21	21°59	27° 6	14°57	15°34	24°38	11°21	10°40	2°49	1°52	17° 5	1°21	S23
M24	10 12 56	4°51'50	31° 4	8° 5	23°13	27°52	15°10	15°35	24°36	11°19	10°41	2°46	1°48	17°12	1°25	M24
T25	10 16 53	5°52'02	3°H23	8°54	24°28	28°38	15°23	15°36	24°34	11°18	10°42	2°D45	1°45	17°18	1°29	T25
W26	10 20 49	6°52'12	15°26	9°46	25°42	29°24	15°36	15°37	24°32	11°17	10°42	2°45	1°42	17°25	1°33	W26
T27	10 24 46	7°52'20	27°18	10°41	26°57	0°Y10	15°48	15°38	24°31	11°16	10°43	2°R46	1°39	17°32	1°37	T27
F28	10 28 42	8°52'27	9°Z 5	11°39	28°11	0°56	16° 1	15°39	24°29	11°14	10°44	2°46	1°36	17°38	1°41	F28
S29	10 32 39	9°H52'33	20°Z51	12°39	29°H26	1°Y42	16°Y14	15°H41	24°Z27	11°H13	10°H45	2°Z44	1°Z32	17°Z45	1°H45	S29

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	17s19	22s12	0n43	13s 6	3n27	14s46	1 s29	8s37	0 s52	3n 9	1 s11	21n25	1s19	21n39	0n34	3 s 8	1n38	0n19	15s27	23s25	23s27	21 s39	6s26	5n26			
S 2	17 2	19 35	1 45	13 18	3 34	14 21	1 30	8 18	0 51	3 13	1 11	21 25	1 19	21 40	0 34	3 8	1 38	0 19	15 26	23 25	23 27	21 37	6 25	5 26			
M 3	16 45	16 8	2 43	13 34	3 39	13 56	1 30	8 0	0 51	3 18	1 10	21 25	1 19	21 40	0 34	3 7	1 38	0 19	15 26	23 25	23 27	21 36	6 24	5 26			
T 4	16 27	12 1	3 35	13 51	3 42	13 29	1 30	7 42	0 50	3 22	1 10	21 25	1 18	21 41	0 34	3 7	1 38	0 20	15 26	23 25	23 27	21 34	6 23	5 26			
W 5	16 9	7 24	4 17	14 9	3 42	13 3	1 29	7 23	0 50	3 27	1 10	21 25	1 18	21 41	0 34	3 7	1 38	0 20	15 25	23 25	23 28	21 33	6 23	5 26			
T 6	15 51	2 26	4 47	14 28	3 40	12 36	1 29	7 5	0 49	3 31	1 10	21 25	1 18	21 41	0 34	3 6	1 38	0 21	15 25	23 25	23 28	21 31	6 20	5 26			
F 7	15 33	2n41	5 5	14 48	3 36	12 9	1 29	6 46	0 48	3 36	1 10	21 25	1 18	21 42	0 34	3 6	1 38	0 21	15 25	23 26	23 28	21 29	6 19	5 26			
S 8	15 14	7 47	5 8	15 8	3 30	11 42	1 29	6 27	0 48	3 40	1 9	21 25	1 18	21 42	0 34	3 6	1 38	0 21	15 24	23 26	23 28	21 28	6 18	5 26			
S 9	14 55	12 37	4 56	15 27	3 23	11 14	1 28	6 9	0 47	3 45	1 9	21 25	1 17	21 43	0 34	3 5	1 38	0 22	15 24	23 26	23 28	21 26	6 16	5 25			
M10	14 36	16 59	4 28	15 46	3 14	10 46	1 28	5 50	0 47	3 50	1 9	21 26	1 17	21 43	0 34	3 5	1 38	0 22	15 24	23 26	23 28	21 25	6 15	5 25			
T11	14 17	20 34	3 45	16 3	3 3	10 18	1 28	5 31	0 46	3 54	1 9	21 26	1 17	21 44	0 34	3 5	1 38	0 23	15 23	23 26	23 28	21 23	6 14	5 25			
W12	13 57	23 6	2 48	16 20	2 53	9 49	1 27	5 12	0 45	3 59	1 9	21 26	1 17	21 44	0 34	3 4	1 38	0 23	15 23	23 26	23 28	21 21	6 12	5 25			
T13	13 37	24 17	1 40	16 36	2 41	9 21	1 26	4 54	0 45	4 4	1 9	21 26	1 16	21 44	0 34	3 4	1 38	0 24	15 23	23 26	23 28	21 20	6 11	5 25			
F14	13 17	25 4	0 24	16 50	2 29	8 52	1 26	4 35	0 44	4 8	1 8	21 26	1 16	21 45	0 34	3 3	1 38	0 24	15 22	23 26	23 28	21 18	6 10	5 25			
S15	12 56	21 52	0s54	17 3	2 16	8 22	1 25	4 16	0 43	4 13	1 8	21 26	1 16	21 45	0 34	3 3	1 38	0 24	15 22	23 26	23 28	21 16	6 8	5 25			
S16	12 36	18 20	2 10	17 14	2 3	7 53	1 24	3 57	0 43	4 18	1 8	21 27	1 16	21 45	0 34	3 2	1 38	0 25	15 22	23 26	23 28	21 15	6 7	5 25			
M17	12 15	13 36	3 17	17 24	1 51	7 23	1 23	3 38	0 42	4 23	1 8	21 27	1 15	21 46	0 34	3 2	1 38	0 25	15 21	23 26	23 28	21 13	6 6	5 25			
T18	11 54	8 4	4 11	17 33	1 38	6 53	1 22	3 19	0 41	4 28	1 8	21 27	1 15	21 46	0 34	3 1	1 39	0 26	15 21	23 27	23 28	21 11	6 4	5 25			
W19	11 33	2 9	4 47	17 40	1 25	6 23	1 21	3 0	0 41	4 33	1 8	21 27	1 15	21 47	0 34	3 1	1 39	0 26	15 21	23 27	23 28	21 10	6 3	5 25			
T20	11 12	3s45	5 4	17 46	1 13	5 53	1 20	2 41	0 40	4 38	1 7	21 28	1 15	21 47	0 34	3 0	1 39	0 27	15 20	23 27	23 28	21 8	6 2	5 25			
F21	10 50	9 17	5 2	17 50	1 0	5 23	1 19	2 22	0 40	4 43	1 7	21 28	1 15	21 47	0 34	3 0	1 39	0 27	15 20	23 27	23 28	21 6	6 0	5 25			
S22	10 29	14 11	4 43	17 52	0 48	4 52	1 18	2 3	0 39	4 48	1 7	21 28	1 14	21 48	0 34	2 59	1 39	0 28	15 20	23 27	23 29	21 5	5 59	5 24			
S23	10 7	18 15	4 9	17 53	0 36	4 22	1 17	1 44	0 38	4 53	1 7	21 29	1 14	21 48	0 34	2 59	1 39	0 28	15 19	23 28	23 29	21 3	5 58	5 24			
M24	9 45	21 20	3 24	17 53	0 25	3 51	1 15	1 25	0 38	4 58	1 7	21 29	1 14	21 48	0 34	2 58	1 39	0 29	15 19	23 28	23 29	21 1	5 56	5 24			
T25	9 23	23 20	2 30	17 51	0 13	3 20	1 14	1 7	0 37	5 3	1 7	21 29	1 14	21 48	0 34	2 58	1 39	0 29	15 19	23 28	23 29	21 0	5 55	5 24			
W26	9 0	24 12	1 31	17 48	0 3	2 49	1 12	0 48	0 36	5 8	1 6	21 30	1 13	21 49	0 34	2 57	1 39	0 30	15 18	23 28	23 29	20 58	5 53	5 24			
T27	8 38	23 57	0 29	17 43	0s 8	2 18	1 11	0 29	0 36	5 13	1 6	21 30	1 13	21 49	0 34	2 57	1 39	0 30	15 18	23 28	23 29	20 56	5 52	5 24			
F28	8 16	22 37	0n34	17 37	0 18	2 47	1 9	0 10	0 35	5 18	1 6	21 30	1 13	21 49	0 34	2 56	1 39	0 31	15 18	23 28	23 29	20 55	5 51	5 24			
S29	7s53	20s18	1n35	17s29	0s28	1s16	1 s 8	0n 9	0s34	5n23	1 s 6	21n31	1s13	21n50	0n34	2s56	1n39	0n31	15s17	23s28	23s29	20s53	5s49	5n24			

Julian Day Number = 2312783.5, Delta T = 66.47 sec

Ecliptic obliquity = 23°29'20, Nutation = 0°00'19, out-of-bounds declination in red

Avanamsha: Fagan/Bradley = 19°26'16. Lahiri = 18°33'17Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1620

geocentric

MARCH 1620 GC

00:00 UT

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

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7s30	17s 7	2n32	17s20	0s37	0s45	1s 6	0n28	0s34	5n28	1s 6	21n31	1s13	21n50	0n34	2s55	1n39	0n32	15s17	23s28	23s29	20s51	5s48	5n24			
M 2	7 7	13 13	3 24	17 10	0 46	0 13	1 4	0 47	0 33	5 33	1 6	21 31	1 12	21 50	0 34	2 55	1 39	0 32	15 17	23 28	23 29	20 49	5 46	5 24			
T 3	6 44	8 44	4 6	16 58	0 55	0n18	1 3	1 6	0 32	5 39	1 6	21 32	1 12	21 50	0 34	2 54	1 39	0 33	15 17	23 28	23 29	20 48	5 45	5 24			
W 4	6 21	3 51	4 38	16 45	1 3	0 49	1 1	1 24	0 32	5 44	1 5	21 32	1 12	21 51	0 34	2 53	1 39	0 33	15 16	23 28	23 29	20 46	5 44	5 24			
T 5	5 58	1n16	4 57	16 30	1 11	1 20	0 59	1 43	0 31	5 49	1 5	21 33	1 12	21 51	0 34	2 53	1 39	0 34	15 16	23 28	23 29	20 44	5 42	5 24			
F 6	5 35	6 25	5 1	16 14	1 18	1 52	0 57	2 2	0 30	5 54	1 5	21 33	1 11	21 51	0 34	2 52	1 39	0 34	15 16	23 29	23 29	20 43	5 41	5 24			
S 7	5 12	11 21	4 50	15 56	1 25	2 23	0 55	2 21	0 30	5 59	1 5	21 34	1 11	21 51	0 34	2 52	1 39	0 35	15 15	23 29	23 29	20 41	5 39	5 24			
S 8	4 48	15 51	4 23	15 38	1 32	2 54	0 53	2 39	0 29	6 5	1 5	21 34	1 11	21 52	0 34	2 51	1 39	0 35	15 15	23 29	23 29	20 39	5 38	5 24			
M 9	4 25	19 38	3 42	15 17	1 38	3 25	0 51	2 58	0 28	6 10	1 5	21 35	1 11	21 52	0 34	2 50	1 39	0 36	15 15	23 29	23 29	20 37	5 37	5 24			
T 10	4 1	22 24	2 48	14 56	1 44	3 56	0 48	3 16	0 28	6 15	1 5	21 35	1 11	21 52	0 34	2 50	1 39	0 36	15 15	23 29	23 29	20 36	5 35	5 25			
W 11	3 38	23 53	1 43	14 33	1 49	4 27	0 46	3 35	0 27	6 20	1 5	21 36	1 10	21 52	0 34	2 49	1 39	0 37	15 14	23 29	23 29	20 34	5 34	5 25			
T 12	3 14	23 56	0 31	14 9	1 54	4 58	0 44	3 53	0 26	6 26	1 4	21 36	1 10	21 52	0 34	2 49	1 39	0 37	15 14	23 29	23 29	20 32	5 32	5 25			
F 13	2 51	22 26	0s43	13 43	1 59	5 28	0 42	4 12	0 26	6 31	1 4	21 37	1 10	21 52	0 34	2 48	1 39	0 38	15 14	23 29	23 29	20 30	5 31	5 25			
S 14	2 27	19 30	1 56	13 16	2 3	5 59	0 39	4 30	0 25	6 36	1 4	21 37	1 10	21 53	0 34	2 47	1 39	0 38	15 14	23 29	23 29	20 29	5 29	5 25			
S 15	2 3	15 20	3 2	12 48	2 7	6 29	0 37	4 48	0 24	6 42	1 4	21 38	1 9	21 53	0 34	2 47	1 39	0 39	15 13	23 29	23 29	20 27	5 28	5 25			
M 16	1 40	10 15	3 37	12 19	2 10	7 0	0 34	5 7	0 24	6 47	1 4	21 38	1 9	21 53	0 33	2 46	1 39	0 39	15 13	23 29	23 29	20 25	5 27	5 25			
T 17	1 16	4 37	4 36	11 48	2 13	7 30	0 32	5 25	0 23	6 52	1 4	21 39	1 9	21 53	0 33	2 45	1 39	0 40	15 13	23 29	23 29	20 23	5 25	5 25			
W 18	0 52	1s13	4 57	11 16	2 15	8 0	0 30	5 43	0 22	6 57	1 4	21 39	1 9	21 53	0 33	2 45	1 39	0 40	15 13	23 29	23 29	20 22	5 24	5 25			
T 19	0 29	6 53	4 59	10 43	2 17	8 30	0 27	6 1	0 22	7 3	1 4	21 40	1 9	21 53	0 33	2 44	1 39	0 41	15 12	23 29	23 29	20 20	5 22	5 25			
F 20	0 5	12 5	4 44	10 8	2 18	8 59	0 24	6 19	0 21	7 8	1 4	21 40	1 8	21 53	0 33	2 43	1 39	0 41	15 12	23 29	23 29	20 18	5 21	5 25			
S 21	0n19	16 32	4 12	9 32	2 19	9 29	0 22	6 36	0 20	7 13	1 4	21 41	1 8	21 53	0 33	2 43	1 40	0 42	15 12	23 29	23 29	20 16	5 20	5 25			
S 22	0 42	20 3	3 29	8 55	2 20	9 58	0 19	6 54	0 20	7 19	1 3	21 41	1 8	21 53	0 33	2 42	1 40	0 42	15 12	23 29	23 29	20 14	5 18	5 25			
M 23	1 6	22 29	2 36	8 17	2 20	10 27	0 16	7 12	0 19	7 24	1 3	21 42	1 8	21 53	0 33	2 42	1 40	0 43	15 11	23 29	23 29	20 13	5 17	5 25			
T 24	1 29	23 46	1 36	7 38	2 20	10 56	0 14	7 30	0 18	7 29	1 3	21 43	1 8	21 54	0 33	2 41	1 40	0 44	15 11	23 29	23 29	20 11	5 15	5 26			
W 25	1 53	23 53	0 34	6 57	2 19	11 24	0 11	7 47	0 18	7 35	1 3	21 43	1 7	21 54	0 33	2 40	1 40	0 44	15 11	23 29	23 29	20 9	5 14	5 26			
T 26	2 16	22 54	0n29	6 15	2 17	11 52	0 8	8 4	0 17	7 40	1 3	21 44	1 7	21 54	0 33	2 40	1 40	0 45	15 11	23 29	23 29	20 7	5 13	5 26			
F 27	2 40	20 54	1 30	5 32	2 15	12 20	0 6	8 22	0 16	7 45	1 3	21 44	1 7	21 54	0 33	2 39	1 40	0 45	15 11	23 29	23 29	20 5	5 11	5 26			
S 28	3 3	18 1	2 28	4 48	2 13	12 48	0 3	8 39	0 16	7 51	1 3	21 45	1 7	21 54	0 33	2 38	1 40	0 46	15 10	23 29	23 29	20 3	5 10	5 26			
S 29	3 27	14 22	3 19	4 2	2 10	13 15	0n 0	8 56	0 15	7 56	1 3	21 46	1 7	21 54	0 33	2 38	1 40	0 46	15 10	23 29	23 29	20 2	5 9	5 26			
M 30	3 50	10 7	4 2	3 16	2 7	13 42	0 3	9 13	0 14	8 1	1 3	21 46	1 6	21 54	0 33	2 37	1 40	0 47	15 10	23 29	23 29	20 0	5 7	5 26			
T 31	4n13	5s23	4n35	2s28	2s 3	14n 9	0n 6	9n30	0s14	8n 7	1s 3	21n47	1s 6	21n54	0n33	2s36	1n40	0n47	15s10	23s29	23s29	19s58	5s 6	5n26			

ASTRODIENST EPHEMERIS for the year 1620
geocentric

APRIL 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 38 49	11°37'32"	17°41'	0°23'	8°46'	25°47'	23°34'	17°21'	24°D 1	10°R23	11°8'16"	29°R15	29°45'1"	21°3'18"	3°45'	W 1
T 2	12 42 45	12°36'31"	0°31'	2°16'	10° 0'	26°32'	23°49'	17°26'	24°31'	10°22'	11°17'	29°47' 3	29°48'	21°24'	3°48'	T 2
F 3	12 46 42	13°35'28"	13°37'	4°11'	11°13'	27°16'	24° 3'	17°31'	24° 1'	10°20'	11°19'	28°50'	29°44'	21°31'	3°52'	F 3
S 4	12 50 38	14°34'24"	26°59'	6° 7'	12°25'	28° 1'	24°17'	17°36'	24° 1'	10°18'	11°20'	28°38'	29°41'	21°38'	3°55'	S 4
S 5	12 54 35	15°33'17"	10°34'	8° 5'	13°38'	28°45'	24°32'	17°41'	24° 1'	10°17'	11°21'	28°29'	29°38'	21°44'	3°58'	S 5
M 6	12 58 31	16°32'08"	24°19'	10° 4'	14°51'	29°29'	24°46'	17°46'	24° 2'	10°15'	11°22'	28°22'	29°35'	21°51'	4° 2'	M 6
T 7	13 2 28	17°30'57"	8°12'	12° 5'	16° 4'	0°13'	25° 0'	17°51'	24° 2'	10°13'	11°24'	28°18'	29°32'	21°58'	4° 5'	T 7
W 8	13 6 25	18°29'44"	22°10'	14° 6'	17°17'	0°57'	25°15'	17°56'	24° 2'	10°12'	11°25'	28°D17'	29°28'	22° 4'	4° 8'	W 8
T 9	13 10 21	19°28'29"	6°13'	16° 9'	18°30'	1°41'	25°29'	18° 1'	24° 3'	10°10'	11°26'	28°17'	29°25'	22°11'	4°11'	T 9
F 10	13 14 18	20°27'11"	20°18'	18°13'	19°42'	2°25'	25°43'	18° 6'	24° 3'	10° 8'	11°27'	28°R17'	29°22'	22°18'	4°14'	F 10
S 11	13 18 14	21°25'51"	4°27'	20°19'	20°55'	3° 9'	25°58'	18°12'	24° 4'	10° 7'	11°29'	28°16'	29°19'	22°24'	4°17'	S 11
S 12	13 22 11	22°24'29"	18°36'	22°25'	22° 7'	3°53'	26°12'	18°17'	24° 4'	10° 5'	11°30'	28°14'	29°16'	22°31'	4°20'	S 12
M13	13 26 7	23°23'04"	2°45'	24°31'	23°20'	4°37'	26°26'	18°23'	24° 5'	10° 4'	11°31'	28° 9'	29°13'	22°38'	4°23'	M13
T 14	13 30 4	24°21'37"	16°49'	26°39'	24°32'	5°21'	26°41'	18°29'	24° 6'	10° 2'	11°33'	28° 1'	29° 9'	22°44'	4°26'	T 14
W15	13 34 0	25°20'09"	0°47'	28°46'	25°44'	6° 5'	26°55'	18°34'	24° 6'	10° 0'	11°34'	27°52'	29° 6'	22°51'	4°29'	W15
T 16	13 37 57	26°18'38"	14°33'	0°54'	26°57'	6°48'	27°10'	18°40'	24° 7'	9°59'	11°35'	27°42'	29° 3'	22°58'	4°32'	T 16
F 17	13 41 54	27°17'05"	28° 4'	3° 2'	28° 9'	7°32'	27°24'	18°46'	24° 8'	9°57'	11°36'	27°32'	29° 0'	23° 4'	4°35'	F 17
S 18	13 45 50	28°15'30"	11°18'	5° 9'	29°21'	8°15'	27°38'	18°52'	24° 9'	9°56'	11°38'	27°23'	28°57'	23°11'	4°37'	S 18
S 19	13 49 47	29°13'53"	24°12'	7°16'	0°11'33"	8°59'	27°53'	18°58'	24°10'	9°54'	11°39'	27°16'	28°54'	23°18'	4°40'	S 19
M20	13 53 43	0°12'15"	6°47'	9°21'	1°45'	9°42'	28° 7'	19° 4'	24°11'	9°53'	11°40'	27°12'	28°50'	23°24'	4°43'	M20
T 21	13 57 40	1°10'35"	19° 7'	11°25'	2°57'	10°26'	28°21'	19°10'	24°12'	9°51'	11°42'	27°10'	28°47'	23°31'	4°45'	T 21
W22	14 1 36	2° 8'54"	1°31'	13°27'	4° 9'	11° 9'	28°36'	19°16'	24°13'	9°50'	11°43'	27°D 9	28°44'	23°38'	4°48'	W22
T 23	14 5 33	3° 7'11"	13° 6'	15°28'	5°21'	11°53'	28°50'	19°22'	24°14'	9°48'	11°44'	27°10'	28°41'	23°44'	4°50'	T 23
F 24	14 9 29	4° 5'26"	24° 56'	17°26'	6°33'	12°36'	29° 5'	19°28'	24°15'	9°47'	11°46'	27°11'	28°38'	23°51'	4°53'	F 24
S 25	14 13 26	5° 3'40"	6°46'	19°22'	7°44'	13°19'	29°19'	19°35'	24°17'	9°45'	11°47'	27°R12	28°34'	23°58'	4°55'	S 25
S 26	14 17 23	6° 1'52"	18°41'	21°14'	8°56'	14° 2'	29°33'	19°41'	24°18'	9°44'	11°49'	27°11'	28°31'	24° 4'	4°58'	S 26
M27	14 21 19	7° 0'03"	0°47'	23° 4'	10° 8'	14°45'	29°48'	19°47'	24°19'	9°42'	11°50'	27° 8'	28°28'	24°11'	5° 0'	M27
T 28	14 25 16	7°58'12"	13° 8'	24°51'	11°19'	15°29'	0°2'	19°54'	24°21'	9°41'	11°51'	27° 3'	28°25'	24°17'	5° 2'	T 28
W29	14 29 12	8°56'20"	25°47'	26°34'	12°31'	16°12'	0°16'	20° 0'	24°22'	9°40'	11°53'	26°56'	28°22'	24°24'	5° 5'	W29
T 30	14 33 9	9°54'26"	8°46'	28°14'	13°11'42"	16°55'	0°30'	20°11' 7	24°24'	9°38'	11°54'	26°49'	28°19'	24°31'	5° 7'	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	4n36	0s21	4n55	1s40	1s59	14n35	0n 9	9n47	0s13	8n12	1s 3	21n47	1s 6	21n54	0n33	2s36	1n40	0n48	15s10	23s29	23s29	19s56	5s 5	5n27	
T 2	4 59	4n48	5 1	0 50	1 54	15 1	0 12	10 4	0 12	8 17	1 3	21 48	1 6	21 54	0 33	2 35	1 40	0 48	15 10	23 29	23 29	19 54	5 3	5 27	
F 3	5 22	9 51	4 51	0n 1	1 48	15 27	0 14	10 20	0 12	8 23	1 2	21 49	1 6	21 54	0 33	2 34	1 40	0 49	15 9	23 29	23 29	19 52	5 2	5 27	
S 4	5 45	14 33	4 26	0 52	1 42	15 52	0 17	10 37	0 11	8 28	1 2	21 49	1 5	21 54	0 33	2 34	1 40	0 49	15 9	23 29	23 29	19 51	5 1	5 27	
S 5	6 8	18 34	3 44	1 45	1 36	16 17	0 20	10 53	0 10	8 33	1 2	21 50	1 5	21 53	0 33	2 33	1 40	0 50	15 9	23 29	23 29	19 49	4 59	5 27	
M 6	6 31	21 38	2 50	2 38	1 29	16 42	0 23	11 10	0 10	8 39	1 2	21 51	1 5	21 53	0 33	2 32	1 40	0 50	15 9	23 29	23 29	19 47	4 58	5 27	
T 7	6 53	23 26	1 45	3 32	1 22	17 6	0 26	11 26	0 9	8 44	1 2	21 51	1 5	21 53	0 33	2 32	1 40	0 51	15 9	23 29	23 29	19 45	4 57	5 27	
W 8	7 16	23 48	0 32	4 26	1 14	17 29	0 29	11 42	0 8	8 49	1 2	21 52	1 5	21 53	0 33	2 31	1 40	0 51	15 9	23 29	23 29	19 43	4 55	5 28	
T 9	7 38	22 39	0s42	5 22	1 5	17 53	0 32	11 58	0 8	8 55	1 2	21 53	1 5	21 53	0 33	2 30	1 40	0 52	15 8	23 29	23 29	19 41	4 54	5 28	
F 10	8 0	20 4	1 54	6 17	0 57	18 15	0 35	12 14	0 7	9 0	1 2	21 53	1 4	21 53	0 33	2 30	1 40	0 52	15 8	23 29	23 29	19 39	4 53	5 28	
S 11	8 22	16 17	3 0	7 13	0 47	18 38	0 38	12 29	0 6	9 5	1 2	21 54	1 4	21 53	0 33	2 29	1 40	0 53	15 8	23 29	23 29	19 38	4 52	5 28	
S 12	8 44	11 34	3 54	8 9	0 38	18 59	0 41	12 45	0 6	9 10	1 2	21 55	1 4	21 53	0 33	2 29	1 40	0 53	15 8	23 29	23 29	19 36	4 50	5 28	
M13	9 6	6 15	4 35	9 5	0 28	19 21	0 43	13 0	0 5	9 16	1 2	21 55	1 4	21 53	0 33	2 28	1 40	0 54	15 8	23 29	23 29	19 34	4 49	5 29	
T 14	9 28	0 38	4 58	10 1	0 18	19 42	0 46	13 16	0 4	9 21	1 2	21 56	1 4	21 53	0 33	2 27	1 40	0 54	15 8	23 28	23 29	19 32	4 48	5 29	
W15	9 49	4s57	5 3	10 57	0 7	20 2	0 49	13 31	0 4	9 26	1 2	21 57	1 3	21 52	0 33	2 27	1 40	0 55	15 8	23 28	23 29	19 30	4 47	5 29	
T 16	10 11	10 13	4 51	11 52	0n 4	20 22	0 52	13 46	0 3	9 31	1 2	21 57	1 3	21 52	0 33	2 26	1 40	0 55	15 8	23 28	23 29	19 28	4 45	5 29	
F 17	10 32	14 53	4 22	12 46	0 14	20 41	0 55	14 1	0 2	9 37	1 2	21 58	1 3	21 52	0 33	2 26	1 40	0 56	15 7	23 28	23 29	19 26	4 44	5 29	
S 18	10 53	18 44	3 40	13 40	0 25	21 0	0 58	14 16	0 2	9 42	1 2	21 58	1 3	21 52	0 33	2 25	1 40	0 56	15 7	23 28	23 29	19 24	4 43	5 30	
S 19	11 13	21 33	2 47	14 32	0 36	21 18	1 1	14 30	0 1	9 47	1 2	21 59	1 3	21 52	0 33	2 24	1 40	0 57	15 7	23 28	23 29	19 22	4 42	5 30	
M20	11 34	23 15	1 47	15 23	0 47	21 35	1 3	14 45	0 1	9 52	1 2	22 0	1 3	21 51	0 33	2 24	1 40	0 57	15 7	23 28	23 29	19 21	4 41	5 30	
T 21	11 54	23 45	0 43	16 12	0 57	21 52	1 6	14 59	0n 0	9 57	1 2	22 0	1 2	21 51	0 33	2 23	1 40	0 58	15 7	23 27	23 29	19 19	4 40	5 30	
W22	12 15	23 7	0n22	16 59	1 8	22 9	1 9	15 13	0 1	10 2	1 2	22 1	1 2	21 51	0 33	2 23	1 40	0 58	15 7	23 27	23 29	19 17	4 39	5 30	
T 23	12 35	21 26	1 25	17 44	1 18	22 25	1 12	15 27	0 1	10 8	1 1	22 2	1 2	21 51	0 33	2 22	1 39	0 58	15 7	23 27	23 29	19 15	4 37	5 31	
F 24	12 55	18 50	2 24	18 28	1 27	22 40	1 14	15 41	0 2	10 13	1 1	22 2	1 2	21 51	0 33	2 21	1 39	0 59	15 7	23 28	23 29	19 13	4 36	5 31	
S 25	13 14	15 27	3 17	19 9	1 36	22 55	1 17	15 55	0 3	10 18	1 1	22 3	1 2	21 50	0 33	2 21	1 39	0 59	15 7	23 28	23 29	19 11	4 35	5 31	
S 26	13 34	11 25	4 2	19 47	1 45	23 9	1 19	16 8	0 3	10 23	1 1	22 4	1 2	21 50	0 33	2 20	1 39	1 0	15 7	23 28	23 29	19 9	4 34	5 31	
M27	13 53	6 55	4 36	20 24	1 53	23 22	1 22	16 22	0 4	10 28	1 1	22 4	1 2	21 50	0 33	2 20	1 39	1 0	15 7	23 27	23 29	19 7	4 33	5 32	
T 28	14 12	2 2	4 59	20 58	2 0	23 35	1 25	16 35	0 5	10 33	1 1	22 5	1 1	21 50	0 33	2 19	1 39	1 1	15 7	23 27	23 29	19 5	4 32	5 32	
W29	14 30	3n 2	5 8	21 29	2 7	23 47	1 27	16 48	0 5	10 38	1 1	22 6	1 1	21 49	0 33	2 19	1 39	1 1	15 7	23 27	23 29	19 3	4 31	5 32	
T 30	14n49	8n 6	5n 1	21n58	2n12	23n58	1n29	17n 1	0n 6	10n43	1s 1	22n 6	1s 1	21n49	0n32	2s18	1n39	1n 2	15s 7	23s27	23s29	19s 1	4s30	5n32	

ASTRODIENST EPHEMERIS for the year 1620

geocentric

MAY 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 37 5	10♂52'31	22♂7 7	29♂51	14♂53	17♂38	0♂45	20♂14	24♂25	9♂37	11♂55	26♂R41	28♂15	24♂37	5♂9	F 1
S 2	14 41 2	11°50'34	5♂48	1♂24	16° 5	18°20	0°59	20°20	24°27	9♂35	11°57	26♂34	28°12	24°44	5°11	S 2
S 3	14 44 58	12°48'35	19°45	2°52	17°16	19° 3	1°13	20°27	24°28	9°34	11°58	26°28	28° 9	24°51	5°13	S 3
M 4	14 48 55	13°46'36	3♂55	4°18	18°27	19°46	1°27	20°34	24°30	9°33	11°59	26°24	28° 6	24°57	5°15	M 4
T 5	14 52 51	14°44'34	18°14	5°39	19°38	20°29	1°42	20°41	24°32	9°32	12° 1	26°22	28° 3	25° 4	5°17	T 5
W 6	14 56 48	15°42'31	2♂36	6°56	20°49	21°12	1°56	20°48	24°34	9°30	12° 2	26°D22	28° 0	25°11	5°19	W 6
T 7	15 0 45	16°40'26	16°57	8° 9	22° 0	21°54	2°10	20°55	24°35	9°29	12° 3	26°23	27°56	25°17	5°21	T 7
F 8	15 4 41	17°38'19	1♂15	9°18	23°11	22°37	2°24	21° 2	24°37	9°28	12° 5	26°24	27°53	25°24	5°23	F 8
S 9	15 8 38	18°36'10	15°26	10°23	24°21	23°19	2°38	21° 9	24°39	9°27	12° 6	26°R25	27°50	25°31	5°24	S 9
S 10	15 12 34	19°33'59	29°30	11°24	25°32	24° 2	2°52	21°16	24°41	9°25	12° 8	26°25	27°47	25°37	5°26	S 10
M 11	15 16 31	20°31'47	13♂24	12°20	26°43	24°44	3° 6	21°23	24°43	9°24	12° 9	26°23	27°44	25°44	5°28	M 11
T 12	15 20 27	21°29'33	27° 9	13°12	27°53	25°27	3°20	21°30	24°45	9°23	12°10	26°19	27°40	25°51	5°29	T 12
W 13	15 24 24	22°27'17	10♂41	14° 0	29° 4	26° 9	3°34	21°37	24°47	9°22	12°12	26°15	27°37	25°57	5°31	W 13
T 14	15 28 20	23°25'00	24° 2	14°43	0♂14	26°51	3°48	21°44	24°50	9°21	12°13	26° 9	27°34	26° 4	5°32	T 14
F 15	15 32 17	24°22'41	7♂8	15°22	1°24	27°33	4° 2	21°51	24°52	9°20	12°14	26° 4	27°31	26°11	5°34	F 15
S 16	15 36 14	25°20'21	20° 0	15°56	2°34	28°16	4°16	21°59	24°54	9°19	12°16	26° 0	27°28	26°17	5°35	S 16
S 17	15 40 10	26°17'59	2♂38	16°25	3°44	28°58	4°30	22° 6	24°56	9°18	12°17	25°56	27°25	26°24	5°37	S 17
M 18	15 44 7	27°15'36	15° 1	16°50	4°54	29°40	4°43	22°13	24°59	9°17	12°18	25°55	27°21	26°31	5°38	M 18
T 19	15 48 3	28°13'13	27°12	17° 9	6° 4	0♂22	4°57	22°21	25° 1	9°16	12°20	25°D54	27°18	26°37	5°39	T 19
W 20	15 52 0	29°10'48	9♂13	17°25	7°14	1° 4	5°11	22°28	25° 3	9°15	12°21	25°55	27°15	26°44	5°40	W 20
T 21	15 55 56	0♂8'22	21° 6	17°35	8°23	1°46	5°25	22°36	25° 6	9°14	12°22	25°56	27°12	26°51	5°41	T 21
F 22	15 59 53	1° 5'55	2♂56	17°41	9°33	2°28	5°38	22°43	25° 8	9°13	12°23	25°58	27° 9	26°57	5°42	F 22
S 23	16 3 50	2° 3'27	14°46	17°R42	10°42	3°10	5°52	22°51	25°11	9°12	12°25	25°59	27° 6	27° 4	5°43	S 23
S 24	16 7 46	3° 0'58	26°42	17°38	11°51	3°51	6° 5	22°58	25°13	9°11	12°26	26° 0	27° 2	27°11	5°44	S 24
M 25	16 11 43	3°58'28	8♂47	17°30	13° 1	4°33	6°19	23° 6	25°16	9°11	12°27	26°R 0	26°59	27°17	5°45	M 25
T 26	16 15 39	4°55'58	21° 8	17°18	14°10	5°15	6°32	23° 13	25°18	9°10	12°29	26° 0	26°56	27°24	5°46	T 26
W 27	16 19 36	5°53'26	3♂47	17° 2	15°19	5°57	6°46	23°21	25°21	9° 9	12°30	25°58	26°53	27°31	5°47	W 27
T 28	16 23 32	6°50'54	16°49	16°42	16°28	6°38	6°59	23°28	25°24	9° 8	12°31	25°55	26°50	27°37	5°47	T 28
F 29	16 27 29	7°48'22	0♂15	16°19	17°36	7°20	7°12	23°36	25°27	9° 8	12°32	25°53	26°46	27°44	5°48	F 29
S 30	16 31 25	8°45'48	14° 5	15°53	18°45	8° 1	7°26	23°44	25°29	9° 7	12°34	25°51	26°43	27°51	5°49	S 30
S 31	16 35 22	9♂43'14	28♂17	15♂24	19♂54	8♂43	7♂39	23♂51	25♂32	9♂6	12♂35	25♂49	26♂40	27♂57	5♂49	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
F 1	15n 7	12n56	4n38	22n24	2n18	24n 9	1n32	17n14	0n 6	10n48	1 s 1	22n 7	1 s 1	21n49	0n32	2s18	1n39	1n 2	15s 7	23s27	23s29	18s59	4s29	5n32
S 2	15 25	17 14	3 59	22 48	2 22	24 19	1 34	17 26	0 7	10 53	1 1	22 8	1 1	21 48	0 32	2 17	1 39	1 2	15 7	23 27	23 29	18 57	4 28	5 33
S 3	15 43	20 41	3 5	23 9	2 25	24 29	1 36	17 39	0 8	10 58	1 1	22 8	1 1	21 48	0 32	2 17	1 39	1 3	15 6	23 26	23 29	18 55	4 27	5 33
M 4	16 0	22 55	1 59	23 28	2 28	24 37	1 39	17 51	0 8	11 3	1 1	22 9	1 0	21 48	0 32	2 16	1 39	1 3	15 6	23 26	23 28	18 53	4 26	5 33
T 5	16 18	23 42	0 44	23 45	2 30	24 46	1 41	18 3	0 9	11 8	1 1	22 9	1 0	21 47	0 32	2 16	1 39	1 4	15 6	23 26	23 28	18 51	4 25	5 33
W 6	16 35	22 54	0s34	23 59	2 30	24 53	1 43	18 15	0 10	11 13	1 1	22 10	1 0	21 47	0 32	2 15	1 39	1 4	15 6	23 26	23 28	18 50	4 24	5 34
T 7	16 51	20 36	1 50	24 11	2 30	25 0	1 45	18 27	0 10	11 17	1 1	22 11	1 0	21 47	0 32	2 15	1 39	1 4	15 6	23 26	23 28	18 48	4 23	5 34
F 8	17 8	17 1	2 58	24 21	2 29	25 6	1 47	18 38	0 11	11 22	1 1	22 11	1 0	21 46	0 32	2 14	1 39	1 5	15 6	23 26	23 28	18 46	4 22	5 34
S 9	17 24	12 29	3 56	24 29	2 27	25 11	1 49	18 50	0 11	11 27	1 1	22 12	1 0	21 46	0 32	2 14	1 39	1 5	15 6	23 26	23 28	18 44	4 21	5 35
S 10	17 40	7 20	4 38	24 34	2 24	25 16	1 51	19 1	0 12	11 32	1 1	22 12	1 0	21 46	0 32	2 13	1 39	1 6	15 6	23 26	23 28	18 42	4 21	5 35
M11	17 55	1 52	5 4	24 38	2 20	25 20	1 53	19 12	0 13	11 37	1 1	22 13	0 59	21 45	0 32	2 13	1 39	1 6	15 6	23 26	23 28	18 40	4 20	5 35
T 12	18 10	3s37	5 11	24 40	2 15	25 23	1 55	19 23	0 13	11 42	1 1	22 14	0 59	21 45	0 32	2 13	1 39	1 6	15 7	23 26	23 28	18 38	4 19	5 35
W13	18 25	8 52	5 2	24 40	2 9	25 25	1 56	19 33	0 14	11 46	1 1	22 14	0 59	21 45	0 32	2 12	1 39	1 7	15 7	23 26	23 28	18 36	4 18	5 36
T 14	18 40	13 36	4 36	24 38	2 3	25 27	1 58	19 44	0 14	11 51	1 1	22 15	0 59	21 44	0 32	2 12	1 39	1 7	15 7	23 26	23 28	18 34	4 17	5 36
F 15	18 54	17 38	3 56	24 35	1 55	25 28	2 0	19 54	0 15	11 56	1 1	22 15	0 59	21 44	0 32	2 11	1 39	1 7	15 7	23 26	23 28	18 32	4 17	5 36
S 16	19 8	20 44	3 4	24 30	1 46	25 29	2 1	20 4	0 16	12 0	1 1	22 16	0 59	21 43	0 32	2 11	1 39	1 8	15 7	23 26	23 28	18 30	4 16	5 36
S 17	19 22	22 45	2 4	24 23	1 36	25 29	2 2	20 14	0 16	12 5	1 1	22 17	0 59	21 43	0 32	2 11	1 39	1 8	15 7	23 26	23 28	18 28	4 15	5 37
M18	19 35	23 38	0 59	24 15	1 26	25 28	2 4	20 24	0 17	12 10	1 1	22 17	0 59	21 42	0 32	2 10	1 39	1 8	15 7	23 26	23 28	18 26	4 14	5 37
T 19	19 48	23 20	0n 7	24 6	1 14	25 26	2 5	20 33	0 17	12 14	1 1	22 18	0 58	21 42	0 32	2 10	1 39	1 9	15 7	23 25	23 28	18 24	4 14	5 37
W20	20 1	21 58	1 13	23 55	1 1	25 24	2 6	20 43	0 18	12 19	1 1	22 18	0 58	21 42	0 32	2 10	1 39	1 9	15 7	23 26	23 28	18 22	4 13	5 38
T 21	20 13	19 37	2 14	23 42	0 48	25 20	2 7	20 52	0 19	12 23	1 1	22 19	0 58	21 41	0 32	2 9	1 39	1 9	15 7	23 26	23 28	18 20	4 12	5 38
F 22	20 25	16 28	3 10	23 29	0 34	25 17	2 8	21 1	0 19	12 28	1 1	22 19	0 58	21 41	0 32	2 9	1 39	1 10	15 7	23 26	23 27	18 18	4 12	5 38
S 23	20 37	12 39	3 57	23 14	0 19	25 12	2 9	21 9	0 20	12 32	1 1	22 20	0 58	21 40	0 32	2 9	1 39	1 10	15 7	23 26	23 27	18 16	4 11	5 38
S 24	20 48	8 20	4 35	22 58	0 3	25 7	2 10	21 18	0 20	12 37	1 1	22 20	0 58	21 40	0 32	2 8	1 39	1 10	15 7	23 26	23 27	18 14	4 10	5 39
M25	20 59	3 38	5 1	22 41	0s13	25 1	2 11	21 26	0 21	12 41	1 2	22 21	0 58	21 39	0 32	2 8	1 39	1 10	15 7	23 26	23 27	18 12	4 10	5 39
T 26	21 10	1n18	5 14	22 24	0 29	24 55	2 12	21 34	0 22	12 45	1 2	22 21	0 58	21 39	0 32	2 8	1 39	1 11	15 7	23 26	23 27	18 10	4 9	5 39
W27	21 20	6 17	5 12	22 5	0 46	24 48	2 12	21 42	0 22	12 50	1 2	22 22	0 58	21 38	0 32	2 8	1 38	1 11	15 7	23 26	23 27	18 7	4 9	5 40
T 28	21 30	11 9	4 55	21 46	1 4	24 40	2 13	21 50	0 23	12 54	1 2	22 22	0 57	21 38	0 32	2 7	1 38	1 11	15 8	23 26	23 27	18 5	4 8	5 40
F 29	21 39	15 39	4 21	21 27	1 21	24 31	2 13	21 58	0 23	12 59	1 2	22 23	0 57	21 37	0 32	2 7	1 38	1 11	15 8	23 25	23 27	18 3	4 8	5 40
S 30	21 48	19 27	3 31	21 7	1 38	24 22	2 13	22 5	0 24	13 3	1 2	22 23	0 57	21 37	0 32	2 7	1 38	1 12	15 8	23 25	23 27	18 1	4 7	5 40
S 31	21n57	22n12	2n26	20n47	1s55	24n13	2n13	22n12	0n24	13n 7	1 s 2	22n24	0s57	21n36	0n32	2s 7	1n38	1n12	15s 8	23s25	23s27	17s59	4s 7	5n41

ASTRODIENST EPHEMERIS for the year 1620
geocentric

JUNE 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 39 19	10 ^{II} 40'39	12 ^{II} 46	14°R54	21 [☾] 2	9 ^{II} 24	7 [☿] 52	23 ^{II} 59	25 [☿] 35	9°R 6	12 [☿] 36	25°R48	26 [☿] 37	28 [☿] 4	5 [☿] 50	M 1
T 2	16 43 15	11°38'03	27°28	14 ^{II} 21	22°10	10° 6	8° 5	24° 7	25°38	9 [☿] 5	12°37	25°D47	26°34	28°11	5°50	T 2
W 3	16 47 12	12°35'27	12 [☿] 16	13°48	23°19	10°47	8°18	24°15	25°41	9° 5	12°39	25 [☿] 48	26°31	28°17	5°50	W 3
T 4	16 51 8	13°32'49	27° 1	13°15	24°27	11°28	8°31	24°22	25°44	9° 4	12°40	25°49	26°27	28°24	5°51	T 4
F 5	16 55 5	14°30'10	11 [☿] 39	12°41	25°35	12°10	8°44	24°30	25°47	9° 4	12°41	25°50	26°24	28°31	5°51	F 5
S 6	16 59 1	15°27'30	26° 3	12° 9	26°42	12°51	8°57	24°38	25°50	9° 3	12°42	25°50	26°21	28°37	5°51	S 6
S 7	17 2 58	16°24'49	10 [☿] 12	11°37	27°50	13°32	9°10	24°46	25°53	9° 3	12°43	25°R51	26°18	28°44	5°51	S 7
M 8	17 6 54	17°22'08	24° 4	11° 8	28°58	14°13	9°23	24°53	25°56	9° 2	12°44	25°51	26°15	28°51	5°R51	M 8
T 9	17 10 51	18°19'25	7 [☿] 37	10°40	0 [☿] 5	14°54	9°35	25° 1	25°59	9° 2	12°46	25°50	26°12	28°57	5°51	T 9
W10	17 14 48	19°16'41	20°54	10°16	1°12	15°35	9°48	25° 9	26° 2	9° 2	12°47	25°50	26° 8	29° 4	5°51	W10
T 11	17 18 44	20°13'56	3 [☿] 54	9°55	2°19	16°16	10° 0	25°17	26° 5	9° 1	12°48	25°49	26° 5	29°11	5°51	T 11
F 12	17 22 41	21°11'11	16°39	9°37	3°26	16°57	10°13	25°25	26° 8	9° 1	12°49	25°48	26° 2	29°17	5°51	F 12
S 13	17 26 37	22° 8'25	29°11	9°23	4°33	17°38	10°25	25°33	26°11	9° 1	12°50	25°48	25°59	29°24	5°51	S 13
S 14	17 30 34	23° 5'39	11 [☿] 31	9°13	5°39	18°19	10°38	25°40	26°14	9° 1	12°51	25°48	25°56	29°31	5°50	S 14
M15	17 34 30	24° 2'52	23°41	9° 8	6°46	19° 0	10°50	25°48	26°18	9° 1	12°52	25°D48	25°52	29°37	5°50	M15
T 16	17 38 27	25° 0'05	5 [☿] 42	9°D 7	7°52	19°40	11° 2	25°56	26°21	9° 0	12°53	25°48	25°49	29°44	5°49	T 16
W17	17 42 23	25°57'17	17°37	9°11	8°58	20°21	11°14	26° 4	26°24	9° 0	12°54	25°R48	25°46	29°51	5°49	W17
T 18	17 46 20	26°54'29	29°28	9°19	10° 4	21° 2	11°26	26°12	26°28	9° 0	12°55	25°48	25°43	29°57	5°49	T 18
F 19	17 50 17	27°51'41	11 [☿] 17	9°33	11°10	21°42	11°38	26°20	26°31	9° 0	12°56	25°47	25°40	0 [☿] 4	5°48	F 19
S 20	17 54 13	28°48'53	23° 8	9°51	12°15	22°23	11°50	26°27	26°34	9°D 0	12°57	25°47	25°37	0°11	5°47	S 20
S 21	17 58 10	29°46'04	5 [☿] 4	10°13	13°21	23° 3	12° 2	26°35	26°38	9° 0	12°58	25°47	25°33	0°17	5°47	S 21
M22	18 2 6	0 [☿] 43'16	17°10	10°41	14°26	23°44	12°14	26°43	26°41	9° 0	12°59	25°46	25°30	0°24	5°46	M22
T 23	18 6 3	1°40'27	29°29	11°13	15°31	24°24	12°25	26°51	26°44	9° 0	13° 0	25°D46	25°27	0°31	5°45	T 23
W24	18 9 59	2°37'39	12°Y 5	11°50	16°35	25° 5	12°37	26°59	26°48	9° 0	13° 1	25°46	25°24	0°37	5°44	W24
T 25	18 13 56	3°34'51	25° 3	12°31	17°40	25°45	12°48	27° 7	26°51	9° 1	13° 2	25°47	25°21	0°44	5°43	T 25
F 26	18 17 52	4°32'03	8 [☿] 26	13°17	18°44	26°26	13° 0	27°14	26°55	9° 1	13° 3	25°47	25°18	0°51	5°42	F 26
S 27	18 21 49	5°29'15	22°15	14° 8	19°48	27° 6	13°11	27°22	26°58	9° 1	13° 4	25°48	25°14	0°57	5°41	S 27
S 28	18 25 46	6°26'28	6 ^{II} 29	15° 3	20°52	27°46	13°22	27°30	27° 2	9° 1	13° 5	25°49	25°11	1° 4	5°40	S 28
M29	18 29 42	7°23'41	21° 7	16° 2	21°56	28°26	13°33	27°38	27° 5	9° 2	13° 6	25°R49	25° 8	1°11	5°39	M29
T 30	18 33 39	8 [☿] 20'53	6 [☿] 2	17 ^{II} 6	22 [☿] 59	29 ^{II} 7	13 [☿] 44	27 ^{II} 46	27 [☿] 9	9 [☿] 2	13 [☿] 7	25 [☿] 49	25 [☿] 5	1 [☿] 17	5 [☿] 38	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
M 1	22n 6	23n33	1n11	20n27	2s12	24n 2	2n13	22n19	0n25	13n11	1s 2	22n24	0s57	21n36	0n32	2s 6	1n38	1n12	15s 8	23s25	23s27	17s57	4s 6	5n41	
T 2	22 14	23 19	0s 9	20 7	2 28	23 51	2 13	22 26	0 26	13 15	1 2	22 25	0 57	21 35	0 32	2 6	1 38	1 12	15 8	23 25	23 27	17 55	4 6	5 41	
W 3	22 21	21 26	1 30	19 47	2 44	23 40	2 13	22 32	0 26	13 20	1 2	22 25	0 57	21 34	0 32	2 6	1 38	1 13	15 8	23 25	23 27	17 53	4 6	5 42	
T 4	22 28	18 6	2 45	19 29	2 59	23 27	2 13	22 39	0 27	13 24	1 2	22 25	0 57	21 34	0 32	2 6	1 38	1 13	15 8	23 25	23 26	17 51	4 5	5 42	
F 5	22 35	13 41	3 48	19 11	3 13	23 15	2 13	22 45	0 27	13 28	1 2	22 26	0 57	21 33	0 32	2 6	1 38	1 13	15 8	23 25	23 26	17 49	4 5	5 42	
S 6	22 42	8 32	4 35	18 54	3 26	23 1	2 12	22 51	0 28	13 32	1 2	22 26	0 57	21 33	0 32	2 6	1 38	1 13	15 9	23 25	23 26	17 47	4 5	5 42	
S 7	22 48	3 3	5 5	18 38	3 37	22 47	2 12	22 56	0 28	13 36	1 2	22 27	0 56	21 32	0 32	2 6	1 38	1 13	15 9	23 25	23 26	17 45	4 4	5 43	
M 8	22 53	2s29	5 17	18 24	3 48	22 33	2 11	23 2	0 29	13 40	1 2	22 27	0 56	21 32	0 32	2 5	1 38	1 14	15 9	23 25	23 26	17 43	4 4	5 43	
T 9	22 58	7 47	5 10	18 11	3 57	22 18	2 10	23 7	0 29	13 44	1 2	22 27	0 56	21 31	0 32	2 5	1 38	1 14	15 9	23 25	23 26	17 41	4 4	5 43	
W10	23 3	12 36	4 47	18 0	4 5	22 2	2 9	23 12	0 30	13 48	1 2	22 28	0 56	21 30	0 32	2 5	1 38	1 14	15 9	23 25	23 26	17 39	4 3	5 44	
T 11	23 8	16 45	4 10	17 50	4 12	21 46	2 8	23 17	0 31	13 52	1 2	22 28	0 56	21 30	0 32	2 5	1 38	1 14	15 9	23 25	23 26	17 37	4 3	5 44	
F 12	23 12	20 3	3 21	17 42	4 17	21 29	2 7	23 22	0 31	13 56	1 2	22 29	0 56	21 29	0 32	2 5	1 38	1 14	15 10	23 25	23 26	17 34	4 3	5 44	
S 13	23 15	22 20	2 22	17 37	4 20	21 12	2 6	23 26	0 32	13 59	1 2	22 29	0 56	21 29	0 32	2 5	1 38	1 14	15 10	23 25	23 26	17 32	4 3	5 44	
S 14	23 18	23 30	1 18	17 33	4 23	20 55	2 5	23 30	0 32	14 3	1 2	22 29	0 56	21 28	0 32	2 5	1 38	1 15	15 10	23 25	23 26	17 30	4 3	5 45	
M15	23 21	23 32	0 12	17 31	4 24	20 36	2 3	23 34	0 33	14 7	1 3	22 30	0 56	21 27	0 32	2 5	1 38	1 15	15 10	23 25	23 25	17 28	4 3	5 45	
T 16	23 24	22 27	0n55	17 31	4 24	20 18	2 2	23 38	0 33	14 11	1 3	22 30	0 56	21 27	0 32	2 5	1 38	1 15	15 10	23 25	23 25	17 26	4 2	5 45	
W17	23 26	20 22	1 58	17 33	4 22	19 59	2 0	23 42	0 34	14 14	1 3	22 30	0 56	21 26	0 32	2 5	1 38	1 15	15 10	23 25	23 25	17 24	4 2	5 46	
T 18	23 27	17 26	2 56	17 37	4 20	19 39	1 58	23 45	0 34	14 18	1 3	22 31	0 55	21 25	0 32	2 5	1 37	1 15	15 11	23 25	23 25	17 22	4 2	5 46	
F 19	23 28	13 48	3 47	17 43	4 16	19 19	1 56	23 48	0 35	14 22	1 3	22 31	0 55	21 25	0 32	2 5	1 37	1 15	15 11	23 25	23 25	17 20	4 2	5 46	
S 20	23 29	9 37	4 27	17 50	4 11	18 59	1 54	23 51	0 35	14 25	1 3	22 31	0 55	21 24	0 32	2 5	1 37	1 15	15 11	23 25	23 25	17 18	4 2	5 46	
S 21	23 29	5 4	4 57	17 59	4 5	18 38	1 52	23 54	0 36	14 29	1 3	22 31	0 55	21 24	0 32	2 5	1 37	1 15	15 11	23 25	23 25	17 16	4 2	5 47	
M22	23 29	0 16	5 14	18 9	3 59	18 17	1 50	23 57	0 36	14 32	1 3	22 32	0 55	21 23	0 32	2 5	1 37	1 15	15 11	23 25	23 25	17 13	4 2	5 47	
T 23	23 29	4n38	5 17	18 21	3 51	17 55	1 47	23 59	0 37	14 36	1 3	22 32	0 55	21 22	0 32	2 5	1 37	1 16	15 12	23 25	23 25	17 11	4 2	5 47	
W24	23 28	9 27	5 5	18 34	3 43	17 34	1 45	24 1	0 37	14 39	1 3	22 32	0 55	21 22	0 32	2 5	1 37	1 16	15 12	23 25	23 24	17 9	4 2	5 47	
T 25	23 26	14 1	4 37	18 48	3 34	17 11	1 42	24 3	0 38	14 43	1 3	22 32	0 55	21 21	0 32	2 5	1 37	1 16	15 12	23 25	23 24	17 7	4 2	5 48	
F 26	23 25	18 2	3 54	19 3	3 25	16 49	1 39	24 5	0 38	14 46	1 3	22 33	0 55	21 20	0 32	2 6	1 37	1 16	15 12	23 25	23 24	17 5	4 2	5 48	
S 27	23 22	21 12	2 56	19 19	3 14	16 26	1 36	24 6	0 39	14 49	1 3	22 33	0 55	21 20	0 32	2 6	1 37	1 16	15 12	23 25	23 24	17 3	4 3	5 48	
S 28	23 20	23 10	1 45	19 36	3 4	16 2	1 33	24 8	0 39	14 52	1 4	22 33	0 55	21 19	0 32	2 6	1 37	1 16	15 13	23 25	23 24	17 1	4 3	5 48	
M29	23 17	23 37	0 26	19 54	2 52	15 39	1 30	24 9	0 40	14 56	1 4	22 33	0 55	21 18	0 32	2 6	1 37	1 16	15 13	23 25	23 24	16 59	4 3	5 48	
T 30	23n13	22n25	0s56	20n12	2s41	15n15	1n26	24n10	0n40	14n59	1s 4	22n34	0s55	21n17	0n32	2s 6	1n37	1n16	15s13	23s25	23s24	16s56	4s 3	5n49	

ASTRODIENST EPHEMERIS for the year 1620
geocentric

JULY 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 37 35	9°58'18"06	21°57' 7	18°11'14	24°02' 2	29°11'47	13°58'55	27°11'53	27°52'12	9°21' 2	13°08' 7	25°04'48	25°27' 2	1°22'24	5°03'37	W 1
T 2	18 41 32	10°15'19	6°01'13	19°26' 5	25° 5	0°52'27	14° 6	28° 0	27°16' 9	9° 3	13° 8	25°27'47	24°58' 1	1°31' 5	5°11'35	T 2
F 3	18 45 28	11°12'32	21°12' 2	20°42' 7	26° 7	1° 7	14°17' 8	28° 9	27°19' 9	9° 3	13° 9	25°45' 2	24°55' 2	1°37' 5	5°34' 3	F 3
S 4	18 49 25	12° 9'45	5°11'54	22° 2	27°10	1°47	14°28' 8	28°16' 9	27°23' 9	9° 3	13°10' 2	25°43' 2	24°52' 2	1°44' 5	5°33' 4	S 4
S 5	18 53 21	13° 6'58	20°15' 2	23°27' 2	28°12' 2	2°27' 2	14°38' 2	28°24' 2	27°27' 9	9° 4	13°11' 2	25°42' 2	24°49' 2	1°51' 5	5°31' 5	S 5
M 6	18 57 18	14° 4'10	4°41'12	24°55' 2	29°14' 3	3° 7	14°48' 2	28°32' 2	27°30' 9	9° 4	13°11' 2	25°41' 2	24°46' 2	1°57' 5	5°30' 6	M 6
T 7	19 1 15	15° 1'23	17°45' 2	26°27' 0	0°11'15	3°47' 2	14°59' 2	28°39' 2	27°34' 9	9° 5	13°12' 2	25°41'41	24°43' 2	2° 4	5°28' 7	T 7
W 8	19 5 11	15°58'35	0°11'54	28° 4	1°16' 4	4°27' 2	15° 9	28°47' 2	27°37' 9	9° 6	13°13' 2	25°41' 2	24°39' 2	2°11' 5	5°27' 8	W 8
T 9	19 9 8	16°55'48	13°43' 2	29°43' 2	2°17' 5	5° 6	15°19' 2	28°55' 2	27°41' 9	9° 6	13°14' 2	25°42' 2	24°36' 2	2°18' 5	5°25' 9	T 9
F 10	19 13 4	17°53'00	26°14' 2	1°52'26	3°18' 5	5°46' 2	15°29' 2	29° 2	27°45' 9	9° 7	13°14' 2	25°44' 2	24°33' 2	2°24' 5	5°23' 10	F 10
S 11	19 17 1	18°50'13	8°27'32	3°13' 4	4°18' 6	6°26' 2	15°39' 2	29°10' 2	27°48' 9	9° 7	13°15' 2	25°45' 2	24°30' 2	2°31' 5	5°21' 11	S 11
S 12	19 20 57	19°47'27	20°38' 5	5° 3	5°18' 7	7° 6	15°49' 2	29°17' 2	27°52' 9	9° 8	13°16' 2	25°46' 2	24°27' 2	2°38' 5	5°20' 12	S 12
M13	19 24 54	20°44'40	2°33'37	6°56' 6	6°17' 7	7°45' 2	15°58' 2	29°25' 2	27°56' 9	9° 9	13°16' 2	25°46' 2	24°24' 2	2°44' 5	5°18' 13	M13
T 14	19 28 51	21°41'54	14°31' 8	8°51' 7	7°16' 8	8°25' 2	16° 8	29°32' 2	27°59' 9	9°10' 2	13°17' 2	25°45' 2	24°20' 2	2°51' 5	5°16' 14	T 14
W15	19 32 47	22°39'09	26°21' 10	10°49' 8	8°15' 9	9° 4	16°17' 2	29°40' 2	28° 3	9°10' 2	13°17' 2	25°42' 2	24°17' 2	2°58' 5	5°14' 15	W15
T 16	19 36 44	23°36'23	8°21'11	12°49' 9	9°13' 9	9°44' 2	16°27' 2	29°47' 2	28° 7	9°11' 2	13°18' 2	25°38' 2	24°14' 2	3° 4	5°12' 16	T 16
F 17	19 40 40	24°33'39	20° 2	14°51'10	10°11'10	10°23' 2	16°36' 2	29°55' 2	28°10' 9	9°12' 2	13°19' 2	25°34' 2	24°11' 2	3°11' 5	5°10' 17	F 17
S 18	19 44 37	25°30'55	1°11'56	16°55'11	11° 8	11° 3	16°45' 2	0°52' 2	28°14' 9	9°13' 2	13°19' 2	25°29' 2	24° 8	3°18' 5	5° 8	S 18
S 19	19 48 33	26°28'12	13°55' 19	0° 5	12° 5	11°42' 2	16°54' 0	0° 9	28°18' 9	9°14' 2	13°20' 2	25°24' 2	24° 4	3°24' 5	5° 6	S 19
M20	19 52 30	27°25'30	26° 3	21° 5	13° 2	12°22' 2	17° 3	0°17' 2	28°21' 9	9°15' 2	13°20' 2	25°19' 2	24° 1	3°31' 5	5° 4	M20
T 21	19 56 26	28°22'49	8°09'23	23°12'13	13°58'13	1° 1	17°11' 2	0°24' 2	28°25' 9	9°16' 2	13°21' 2	25°16' 2	23°58' 2	3°38' 5	5° 2	T 21
W22	20 0 23	29°20'08	20°58' 25	15°18'14	14°54'13	1°41' 2	17°20' 2	0°31' 2	28°29' 9	9°17' 2	13°21' 2	25°15' 2	23°55' 2	3°44' 5	4°59' 22	W22
T 23	20 4 19	0°01'729	3°35'52	27°25'15	15°49'14	1°20' 2	17°28' 2	0°38' 2	28°32' 9	9°18' 2	13°21' 2	25°15'41	23°52' 2	3°51' 5	4°57' 23	T 23
F 24	20 8 16	1°14'51	17° 7	29°31'16	14°44'14	1°59' 2	17°36' 2	0°45' 2	28°36' 9	9°19' 2	13°22' 2	25°15' 2	23°49' 2	3°58' 5	4°55' 24	F 24
S 25	20 12 13	2°12'14	0°11'48	1°03'37	17°38'15	1°38' 2	17°45' 2	0°53' 2	28°40' 9	9°20' 2	13°22' 2	25°17' 2	23°45' 2	4° 4	4°53' 25	S 25
S 26	20 16 9	3° 9'38	14°55' 3	3°42'18	18°31'16	1°18' 2	17°53' 2	1° 0	28°44' 9	9°21' 2	13°23' 2	25°18' 2	23°42' 2	4°11' 5	4°50' 26	S 26
M27	20 20 6	4° 7'04	29°27' 5	5°47'19	19°24'16	1°57' 2	18° 1	1° 7	28°47' 9	9°22' 2	13°23' 2	25°18'18	23°39' 2	4°18' 5	4°48' 27	M27
T 28	20 24 2	5° 4'30	14°52'22	7°50'20	17°36'18	1° 8	1°14' 2	28°51' 9	2°23' 2	9°23' 2	13°23' 2	25°17' 2	23°36' 2	4°24' 5	4°45' 28	T 28
W29	20 27 59	6° 1'58	29°31' 9	9°52'21	21° 9	18°15'18	1°16' 2	28°55' 9	2°25' 2	9°25' 2	13°24' 2	25°14' 2	23°33' 2	4°31' 5	4°43' 29	W29
T 30	20 31 55	6°59'26	14°02'46	11°53'22	0° 0	18°54'18	1°23' 2	28°58' 9	2°26' 2	9°26' 2	13°24' 2	25° 9	23°30' 2	4°38' 5	4°40' 30	T 30
F 31	20 35 52	7°05'56	29°02'57	13°02'52	22°11'51	19°53'33	1°28'31	1°53'4	29°52' 2	9°27' 2	13°24' 2	25°27' 3	23°27'26	4°44' 5	4°38' 31	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
W 1	23n10	19n36	2s16	20n30	2s29	14n50	1n23	24n10	0n41	15n 2	1 s 4	22n34	0s55	21n17	0n32	2s 6	1n37	1n16	15s13	23s25	23s24	16s54	4s 3	5n49			
T 2	23 5	15 26	3 25	20 48	2 16	14 26	1 19	24 11	0 41	15 5	1 4	22 34	0 54	21 16	0 32	2 7	1 37	1 16	15 14	23 25	23 24	16 52	4 4	5 49			
F 3	23 1	10 21	4 21	21 6	2 4	14 1	1 16	24 11	0 42	15 8	1 4	22 34	0 54	21 15	0 32	2 7	1 37	1 16	15 14	23 25	23 23	16 50	4 4	5 50			
S 4	22 56	4 45	4 57	21 24	1 51	13 36	1 12	24 11	0 42	15 11	1 4	22 34	0 54	21 15	0 32	2 7	1 37	1 16	15 14	23 25	23 23	16 48	4 4	5 50			
S 5	22 50	0s57	5 15	21 42	1 38	13 11	1 8	24 11	0 43	15 14	1 4	22 34	0 54	21 14	0 32	2 7	1 37	1 16	15 14	23 25	23 23	16 46	4 4	5 50			
M 6	22 45	6 27	5 13	21 59	1 25	12 45	1 3	24 11	0 43	15 17	1 4	22 35	0 54	21 13	0 32	2 7	1 37	1 16	15 15	23 25	23 23	16 44	4 5	5 50			
T 7	22 38	11 29	4 53	22 15	1 12	12 20	0 59	24 10	0 44	15 20	1 4	22 35	0 54	21 13	0 32	2 8	1 37	1 16	15 15	23 25	23 23	16 41	4 5	5 51			
W 8	22 32	15 50	4 18	22 30	0 58	11 54	0 55	24 9	0 44	15 23	1 5	22 35	0 54	21 12	0 32	2 8	1 37	1 16	15 15	23 25	23 23	16 39	4 6	5 51			
T 9	22 25	19 21	3 32	22 44	0 45	11 28	0 50	24 8	0 45	15 26	1 5	22 35	0 54	21 11	0 32	2 8	1 36	1 16	15 15	23 25	23 23	16 37	4 6	5 51			
F 10	22 17	21 52	2 36	22 56	0 33	11 2	0 46	24 7	0 45	15 29	1 5	22 35	0 54	21 10	0 32	2 9	1 36	1 16	15 16	23 25	23 23	16 35	4 6	5 51			
S 11	22 10	23 19	1 34	23 7	0 20	10 35	0 41	24 6	0 46	15 31	1 5	22 35	0 54	21 10	0 32	2 9	1 36	1 16	15 16	23 25	23 22	16 33	4 7	5 51			
S 12	22 2	23 38	0 28	23 16	0 8	10 9	0 36	24 4	0 46	15 34	1 5	22 35	0 54	21 9	0 32	2 9	1 36	1 16	15 16	23 25	23 22	16 31	4 7	5 52			
M13	21 53	22 50	0n38	23 23	0n 4	9 42	0 31	24 2	0 47	15 37	1 5	22 35	0 54	21 8	0 32	2 9	1 36	1 15	15 16	23 25	23 22	16 28	4 8	5 52			
T 14	21 44	21 1	1 41	23 27	0 16	9 15	0 25	24 0	0 47	15 39	1 5	22 35	0 54	21 7	0 32	2 10	1 36	1 15	15 17	23 25	23 22	16 26	4 8	5 52			
W15	21 35	18 18	2 40	23 29	0 27	8 48	0 20	23 58	0 48	15 42	1 5	22 36	0 54	21 7	0 32	2 10	1 36	1 15	15 17	23 25	23 22	16 24	4 9	5 52			
T 16	21 25	14 51	3 32	23 29	0 37	8 21	0 14	23 56	0 48	15 45	1 5	22 36	0 54	21 6	0 32	2 11	1 36	1 15	15 17	23 25	23 22	16 22	4 9	5 52			
F 17	21 15	10 48	4 15	23 26	0 47	7 54	0 9	23 53	0 49	15 47	1 6	22 36	0 54	21 5	0 32	2 11	1 36	1 15	15 17	23 25	23 22	16 20	4 10	5 53			
S 18	21 5	6 21	4 46	23 21	0 56	7 27	0 3	23 51	0 49	15 50	1 6	22 36	0 54	21 5	0 32	2 11	1 36	1 15	15 18	23 25	23 21	16 18	4 10	5 53			
S 19	20 54	1 38	5 6	23 12	1 5	7 0	0s 3	23 48	0 50	15 52	1 6	22 36	0 54	21 4	0 32	2 12	1 36	1 15	15 18	23 24	23 21	16 15	4 11	5 53			
M20	20 43	3n12	5 12	23 1	1 12	6 32	0 9	23 45	0 50	15 54	1 6	22 36	0 54	21 3	0 32	2 12	1 36	1 15	15 18	23 24	23 21	16 13	4 12	5 53			
T 21	20 32	7 59	5 4	22 47	1 19	6 5	0 15	23 41	0 51	15 57	1 6	22 36	0 53	21 2	0 32	2 13	1 36	1 15	15 19	23 24	23 21	16 11	4 12	5 53			
W22	20 20	12 32	4 41	22 31	1 25	5 38	0 22	23 38	0 51	15 59	1 6	22 36	0 53	21 2	0 32	2 13	1 36	1 14	15 19	23 24	23 21	16 9	4 13	5 53			
T 23	20 8	16 39	4 4	22 12	1 31	5 10	0 28	23 34	0 51	16 1	1 6	22 36	0 53	21 1	0 32	2 13	1 36	1 14	15 19	23 24	23 21	16 7	4 13	5 54			
F 24	19 55	20 4	3 13	21 51	1 35	4 43	0 35	23 30	0 52	16 3	1 6	22 36	0 53	21 0	0 32	2 14	1 36	1 14	15 19	23 24	23 21	16 4	4 14	5 54			
S 25	19 43	22 28	2 10	21 27	1 39	4 16	0 41	23 26	0 52	16 6	1 7	22 36	0 53	20 59	0 32	2 14	1 36	1 14	15 20	23 24	23 20	16 2	4 15	5 54			
S 26	19 29	23 34	0 56	21 1	1 42	3 48	0 48	23 22	0 53	16 8	1 7	22 36	0 53	20 59	0 32	2 15	1 36	1 14	15 20	23 24	23 20	16 0	4 16	5 54			
M27	19 16	23 7	0s23	20 33	1 44	3 21	0 55	23 18	0 53	16 10	1 7	22 36	0 53	20 58	0 32	2 15	1 36	1 14	15 20	23 24	23 20	15 58	4 16	5 54			
T 28	19 2	21 2	1 42	20 3	1 46	2 54	1 3	23 13	0 54	16 12	1 7	22 36	0 53	20 57	0 32	2 16	1 36	1 13	15 21	23 24	23 20	15 56	4 17	5 54			
W29	18 48	17 27	2 55	19 31	1 46	2 27	1 10	23 8	0 54	16 14	1 7	22 36	0 53	20 56	0 32	2 16	1 36	1 13	15 21	23 24	23 20	15 53	4 18	5 54			
T 30	18 34	12 40	3 56	18 58	1 47	2 0	1 17	23 3	0 55	16 16	1 7	22 36	0 53	20 56	0 32	2 17	1 36	1 13	15 21	23 24	23 20	15 51	4 19	5 55			
F 31	18n19	7n 8	4s40	18n23	1n46	1n33	1s25	22n58	0n55	16n18	1 s 7	22n36	0s53	20n55	0n32	2s17	1n35	1n13	15s21	23s24	23s20	15s49	4s19	5n55			

ASTRODIENST EPHEMERIS for the year 1620

geocentric

AUGUST 1620 GC

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 39 49	8♂54'26	14♂53	15♂51	23♂41	20♂12	18♂38	1♂41	29♂6	9♂28	13♂24	24°R56	23♂23	4♂51	4°R35	S 1
S 2	20 43 45	9°51'57	29°26	17°47	24°30	20°51	18°45	1°48	29° 9	9°30	13°25	24♂750	23°20	4°58	4♂33	S 2
M 3	20 47 42	10°49'29	13♂33	19°43	25°18	21°30	18°52	1°55	29°13	9°31	13°25	24°46	23°17	5° 4	4°30	M 3
T 4	20 51 38	11°47'02	27°11	21°36	26° 6	22° 9	18°58	2° 1	29°16	9°32	13°25	24°43	23°14	5°11	4°28	T 4
W 5	20 55 35	12°44'35	10♂21	23°29	26°53	22°48	19° 5	2° 8	29°20	9°34	13°25	24°D42	23°10	5°18	4°25	W 5
T 6	20 59 31	13°42'10	23° 7	25°19	27°39	23°26	19°11	2°15	29°24	9°35	13°25	24°42	23° 7	5°24	4°22	T 6
F 7	21 3 28	14°39'46	5♂32	27° 9	28°24	24° 5	19°17	2°21	29°27	9°36	13°26	24°43	23° 4	5°31	4°19	F 7
S 8	21 7 24	15°37'22	17°42	28°56	29° 9	24°44	19°23	2°27	29°31	9°38	13°26	24°44	23° 1	5°38	4°17	S 8
S 9	21 11 21	16°35'00	29°42	0♂43	29°52	25°23	19°29	2°34	29°34	9°39	13°26	24°R44	22°58	5°45	4°14	S 9
M10	21 15 18	17°32'38	11♂34	2°27	0♂35	26° 1	19°35	2°40	29°38	9°41	13°26	24°43	22°55	5°51	4°11	M10
T 11	21 19 14	18°30'18	23°23	4°11	1°16	26°40	19°41	2°47	29°42	9°42	13°26	24°39	22°51	5°58	4° 8	T 11
W12	21 23 11	19°27'59	5♂13	5°53	1°57	27°19	19°46	2°53	29°45	9°44	13°26	24°33	22°48	6° 5	4° 6	W12
T 13	21 27 7	20°25'41	17° 4	7°33	2°36	27°57	19°51	2°59	29°49	9°46	13°R26	24°25	22°45	6°11	4° 3	T 13
F 14	21 31 4	21°23'25	28°59	9°12	3°15	28°36	19°56	3° 5	29°52	9°47	13°26	24°15	22°42	6°18	4° 0	F 14
S 15	21 35 0	22°21'09	11♂ 0	10°50	3°52	29°14	20° 1	3°11	29°56	9°49	13°26	24° 4	22°39	6°25	3°57	S 15
S 16	21 38 57	23°18'56	23° 8	12°26	4°28	29°53	20° 6	3°17	29°59	9°50	13°26	23°53	22°35	6°31	3°54	S 16
M17	21 42 53	24°16'44	5♂24	14° 1	5° 2	0♂31	20°11	3°23	0♂ 3	9°52	13°26	23°43	22°32	6°38	3°51	M17
T 18	21 46 50	25°14'33	17°50	15°34	5°36	1°10	20°15	3°29	0° 6	9°54	13°26	23°36	22°29	6°45	3°48	T 18
W19	21 50 46	26°12'25	0♂29	17° 6	6° 8	1°48	20°19	3°35	0° 9	9°56	13°26	23°30	22°26	6°51	3°45	W19
T 20	21 54 43	27°10'18	13°23	18°37	6°39	2°26	20°23	3°40	0°13	9°57	13°25	23°27	22°23	6°58	3°43	T 20
F 21	21 58 40	28° 8'13	26°35	20° 6	7° 8	3° 5	20°27	3°46	0°16	9°59	13°25	23°D27	22°20	7° 5	3°40	F 21
S 22	22 2 36	29° 6'10	10♂ 7	21°34	7°36	3°43	20°31	3°52	0°20	10° 1	13°25	23°27	22°16	7°11	3°37	S 22
S 23	22 6 33	0♂4'09	24° 3	23° 0	8° 2	4°21	20°34	3°57	0°23	10° 3	13°25	23°R27	22°13	7°18	3°34	S 23
M24	22 10 29	1° 2'10	8♂22	24°25	8°27	5° 0	20°37	4° 3	0°26	10° 4	13°25	23°26	22°10	7°25	3°31	M24
T 25	22 14 26	2° 0'12	23° 3	25°49	8°49	5°38	20°40	4° 8	0°29	10° 6	13°24	23°23	22° 7	7°31	3°28	T 25
W26	22 18 22	2°58'17	8♂ 1	27°11	9°11	6°16	20°43	4°13	0°33	10° 8	13°24	23°18	22° 4	7°38	3°25	W26
T 27	22 22 19	3°56'23	23° 9	28°31	9°30	6°54	20°46	4°19	0°36	10°10	13°24	23°10	22° 1	7°45	3°22	T 27
F 28	22 26 15	4°54'31	8♂17	29°50	9°48	7°32	20°49	4°24	0°39	10°12	13°24	23° 0	21°57	7°52	3°19	F 28
S 29	22 30 12	5°52'41	23°15	1♂ 7	10° 3	8°10	20°51	4°29	0°42	10°14	13°23	22°50	21°54	7°58	3°16	S 29
S 30	22 34 9	6°50'52	7♂54	2°23	10°17	8°49	20°53	4°34	0°46	10°16	13°23	22°40	21°51	8° 5	3°13	S 30
M31	22 38 5	7♂49'05	22♂ 6	3♂37	10♂29	9♂27	20♂55	4♂39	0♂49	10♂18	13♂23	22♂31	21♂48	8♂12	3♂10	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
S 1	18n 4	1n17	5s 4	17n47	1n45	1n 6	1s33	22n53	0n55	16n19	1 s 7	22n36	0s53	20n54	0n32	2s18	1n35	1n13	15s22	23s23	23s19	15s47	4s20	5n55	
S 2	17 49	4s29	5 8	17 10	1 43	0 39	1 41	22 47	0 56	16 21	1 8	22 35	0 53	20 53	0 32	2 18	1 35	1 12	15 22	23 23	23 19	15 44	4 21	5 55	
M 3	17 33	9 51	4 53	16 32	1 41	0 12	1 49	22 42	0 56	16 23	1 8	22 35	0 53	20 53	0 32	2 19	1 35	1 12	15 22	23 23	23 19	15 42	4 22	5 55	
T 4	17 17	14 33	4 21	15 53	1 38	0s14	1 57	22 36	0 57	16 25	1 8	22 35	0 53	20 52	0 32	2 20	1 35	1 12	15 23	23 23	23 19	15 40	4 23	5 55	
W 5	17 1	18 23	3 36	15 13	1 35	0 40	2 5	22 30	0 57	16 26	1 8	22 35	0 53	20 51	0 32	2 20	1 35	1 12	15 23	23 23	23 19	15 38	4 24	5 55	
T 6	16 45	21 12	2 42	14 32	1 31	1 6	2 13	22 24	0 58	16 28	1 8	22 35	0 53	20 50	0 32	2 21	1 35	1 12	15 23	23 23	23 19	15 36	4 25	5 55	
F 7	16 28	22 56	1 42	13 51	1 27	1 32	2 22	22 17	0 58	16 29	1 8	22 35	0 53	20 50	0 32	2 21	1 35	1 11	15 23	23 23	23 18	15 33	4 25	5 55	
S 8	16 11	23 33	0 38	13 9	1 22	1 58	2 31	22 11	0 58	16 31	1 8	22 35	0 53	20 49	0 32	2 22	1 35	1 11	15 24	23 23	23 18	15 31	4 26	5 55	
S 9	15 54	23 3	0n27	12 26	1 17	2 23	2 39	22 4	0 59	16 32	1 9	22 35	0 53	20 48	0 32	2 23	1 35	1 11	15 24	23 23	23 18	15 29	4 27	5 55	
M10	15 36	21 30	1 29	11 44	1 11	2 48	2 48	21 57	0 59	16 34	1 9	22 35	0 53	20 47	0 32	2 23	1 35	1 11	15 24	23 23	23 18	15 27	4 28	5 55	
T 11	15 19	19 2	2 28	11 1	1 6	3 13	2 57	21 50	1 0	16 35	1 9	22 35	0 53	20 47	0 32	2 24	1 35	1 10	15 25	23 23	23 18	15 24	4 29	5 56	
W12	15 1	15 47	3 19	10 18	0 59	3 38	3 7	21 43	1 0	16 36	1 9	22 35	0 53	20 46	0 32	2 24	1 35	1 10	15 25	23 23	23 18	15 22	4 30	5 56	
T 13	14 43	11 54	4 3	9 34	0 53	4 2	3 16	21 36	1 0	16 38	1 9	22 34	0 53	20 45	0 32	2 25	1 35	1 10	15 25	23 22	23 17	15 20	4 31	5 56	
F 14	14 24	7 33	4 35	8 51	0 46	4 26	3 25	21 29	1 1	16 39	1 9	22 34	0 53	20 45	0 32	2 26	1 35	1 9	15 26	23 22	23 17	15 18	4 32	5 56	
S 15	14 5	2 53	4 56	8 8	0 39	4 49	3 35	21 21	1 1	16 40	1 10	22 34	0 53	20 44	0 32	2 26	1 35	1 9	15 26	23 21	23 17	15 15	4 33	5 56	
S 16	13 46	1n55	5 4	7 24	0 32	5 12	3 44	21 13	1 2	16 41	1 10	22 34	0 53	20 43	0 32	2 27	1 35	1 9	15 26	23 21	23 17	15 13	4 34	5 56	
M17	13 27	6 42	4 58	6 41	0 25	5 35	3 54	21 5	1 2	16 42	1 10	22 34	0 53	20 42	0 32	2 28	1 35	1 9	15 26	23 20	23 17	15 11	4 35	5 56	
T 18	13 8	11 17	4 38	5 58	0 17	5 57	4 4	20 57	1 3	16 43	1 10	22 34	0 53	20 42	0 32	2 29	1 35	1 8	15 27	23 20	23 16	15 9	4 36	5 56	
W19	12 48	15 28	4 4	5 15	0 9	6 19	4 14	20 49	1 3	16 44	1 10	22 34	0 53	20 41	0 32	2 29	1 35	1 8	15 27	23 20	23 16	15 6	4 37	5 56	
T 20	12 29	19 0	3 17	4 32	0 2	6 41	4 24	20 41	1 3	16 45	1 10	22 34	0 53	20 40	0 32	2 30	1 35	1 8	15 27	23 20	23 16	15 4	4 38	5 56	
F 21	12 9	21 40	2 18	3 50	0s 7	7 1	4 34	20 33	1 4	16 46	1 10	22 33	0 53	20 39	0 32	2 31	1 35	1 7	15 28	23 20	23 16	15 2	4 39	5 56	
S 22	11 49	23 10	1 10	3 8	0 15	7 22	4 44	20 24	1 4	16 47	1 11	22 33	0 53	20 39	0 32	2 31	1 35	1 7	15 28	23 20	23 16	14 59	4 40	5 56	
S 23	11 28	23 18	0s 3	2 26	0 23	7 41	4 54	20 15	1 4	16 48	1 11	22 33	0 53	20 38	0 32	2 32	1 35	1 7	15 28	23 20	23 16	14 57	4 42	5 56	
M24	11 8	21 55	1 19	1 44	0 32	8 1	5 4	20 6	1 5	16 48	1 11	22 33	0 53	20 37	0 32	2 33	1 35	1 6	15 28	23 20	23 15	14 55	4 43	5 56	
T 25	10 47	19 3	2 30	1 3	0 40	8 19	5 14	19 57	1 5	16 49	1 11	22 33	0 53	20 37	0 32	2 34	1 35	1 6	15 29	23 19	23 15	14 53	4 44	5 55	
W26	10 26	14 52	3 33	0 23	0 49	8 37	5 25	19 48	1 6	16 50	1 11	22 33	0 53	20 36	0 32	2 34	1 35	1 6	15 29	23 19	23 15	14 50	4 45	5 55	
T 27	10 5	9 42	4 22	0s17	0 58	8 54	5 35	19 39	1 6	16 50	1 11	22 32	0 53	20 35	0 32	2 35	1 35	1 5	15 29	23 19	23 15	14 48	4 46	5 55	
F 28	9 44	3 58	4 52	0 57	1 6	9 10	5 45	19 30	1 6	16 51	1 12	22 32	0 53	20 35	0 32	2 36	1 35	1 5	15 30	23 18	23 15	14 46	4 47	5 55	
S 29	9 22	1s56	5 2	1 36	1 15	9 26	5 55	19 20	1 7	16 51	1 12	22 32	0 53	20 34	0 32	2 37	1 35	1 5	15 30	23 18	23 14	14 44	4 48	5 55	
S 30	9 1	7 36	4 51	2 14	1 24	9 41	6 6	19 10	1 7	16 51	1 12	22 32	0 53	20 33	0 32	2 37	1 34	1 4	15 30	23 17	23 14	14 41	4 49	5 55	
M31	8n39	12s41	4s23	2s51	1s33	9s55	6s16	19n 1	1n 8	16n52	1s12	22n32	0s53	20n33	0n32	2s38	1n34	1n 4	15s30	23s17	23s14	14s39	4s50	5n55	

ASTRODIENST EPHEMERIS for the year 1620
geocentric

OCTOBER 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 40 18	8♌ 8'52	10♊ 0	11°R35	29°R58	28♌50	20°R17	6♌27	2♌ 9	11♌24	13°R 2	19°R21	20♊ 9	11♌39	1°R48	T 1
F 2	0 44 15	9° 8'07	22°29	10♌24	29♎24	29°27	20♌13	6°29	2°11	11°26	13♌ 2	19°D20	20° 6	11°46	1♌46	F 2
S 3	0 48 11	10° 7'24	4♌39	9°14	28°52	0♎ 4	20° 8	6°31	2°13	11°28	13° 1	19°R21	20° 3	11°52	1°44	S 3
S 4	0 52 8	11° 6'42	16°38	8° 5	28°22	0°41	20° 3	6°32	2°15	11°30	13° 0	19♊21	20° 0	11°59	1°42	S 4
M 5	0 56 4	12° 6'03	28°29	7° 0	27°53	1°18	19°58	6°34	2°16	11°33	12°59	19°19	19°57	12° 6	1°40	M 5
T 6	1 0 1	13° 5'25	10♌19	6° 0	27°26	1°55	19°53	6°36	2°18	11°35	12°58	19°16	19°53	12°12	1°38	T 6
W 7	1 3 58	14° 4'49	22°12	5° 8	27° 2	2°31	19°48	6°37	2°20	11°37	12°57	19° 9	19°50	12°19	1°36	W 7
T 8	1 7 54	15° 4'14	4♌12	4°25	26°39	3° 8	19°43	6°38	2°22	11°39	12°56	19° 1	19°47	12°26	1°34	T 8
F 9	1 11 51	16° 3'42	16°22	3°52	26°18	3°45	19°37	6°39	2°23	11°42	12°55	18°51	19°44	12°32	1°32	F 9
S 10	1 15 47	17° 3'11	28°43	3°29	26° 0	4°22	19°32	6°40	2°25	11°44	12°54	18°39	19°41	12°39	1°30	S 10
S 11	1 19 44	18° 2'43	11♎18	3°17	25°44	4°59	19°26	6°41	2°26	11°46	12°53	18°28	19°38	12°46	1°28	S 11
M12	1 23 40	19° 2'16	24° 5	3°D17	25°31	5°35	19°20	6°42	2°28	11°48	12°52	18°17	19°34	12°53	1°27	M12
T 13	1 27 37	20° 1'52	7♌ 6	3°27	25°20	6°12	19°14	6°43	2°29	11°50	12°51	18° 9	19°31	12°59	1°25	T 13
W14	1 31 33	21° 1'30	20°17	3°48	25°11	6°48	19° 7	6°43	2°31	11°53	12°50	18° 3	19°28	13° 6	1°23	W14
T 15	1 35 30	22° 1'10	3♌40	4°19	25° 5	7°25	19° 1	6°44	2°32	11°55	12°49	18° 0	19°25	13°13	1°22	T 15
F 16	1 39 27	23° 0'52	17°13	4°59	25° 2	8° 2	18°54	6°44	2°33	11°57	12°48	17°D59	19°22	13°19	1°20	F 16
S 17	1 43 23	24° 0'36	0♌56	5°47	25°D 1	8°38	18°48	6°44	2°34	11°59	12°47	18° 0	19°18	13°26	1°19	S 17
S 18	1 47 20	25° 0'23	14°48	6°43	25° 2	9°14	18°41	6°45	2°35	12° 1	12°46	18° 0	19°15	13°33	1°17	S 18
M19	1 51 16	26° 0'12	28°50	7°46	25° 6	9°51	18°34	6°R45	2°37	12° 4	12°45	18°R 1	19°12	13°39	1°16	M19
T 20	1 55 13	27° 0'03	13♌ 2	8°54	25°12	10°27	18°27	6°45	2°38	12° 6	12°44	18° 0	19° 9	13°46	1°15	T 20
W21	1 59 9	27°59'57	27°20	10° 8	25°20	11° 4	18°20	6°44	2°39	12° 8	12°42	17°56	19° 6	13°53	1°13	W21
T 22	2 3 6	28°59'52	11♎43	11°26	25°31	11°40	18°12	6°44	2°40	12°10	12°41	17°51	19° 3	14° 0	1°12	T 22
F 23	2 7 2	29°59'50	26° 6	12°48	25°43	12°16	18° 5	6°44	2°40	12°12	12°40	17°44	18°59	14° 6	1°11	F 23
S 24	2 10 59	0♌59'50	10♌24	14°13	25°58	12°52	17°58	6°43	2°41	12°14	12°39	17°36	18°56	14°13	1°10	S 24
S 25	2 14 56	1°59'52	24°30	15°41	26°15	13°29	17°50	6°42	2°42	12°17	12°38	17°28	18°53	14°20	1° 9	S 25
M26	2 18 52	2°59'56	8♌21	17°11	26°34	14° 5	17°42	6°42	2°43	12°19	12°37	17°22	18°50	14°26	1° 8	M26
T 27	2 22 49	4° 0'02	21°52	18°42	26°55	14°41	17°35	6°41	2°43	12°21	12°36	17°17	18°47	14°33	1° 7	T 27
W28	2 26 45	5° 0'10	5♊ 1	20°15	27°18	15°17	17°27	6°40	2°44	12°23	12°35	17°14	18°44	14°40	1° 6	W28
T 29	2 30 42	6° 0'19	17°49	21°50	27°42	15°53	17°19	6°39	2°45	12°25	12°34	17°D14	18°40	14°46	1° 5	T 29
F 30	2 34 38	7° 0'30	0♌17	23°25	28° 8	16°29	17°11	6°37	2°45	12°27	12°33	17°14	18°37	14°53	1° 5	F 30
S 31	2 38 35	8♌ 0'43	12♌29	25♌ 1	28♎36	17♎ 5	17♌ 3	6♌36	2♌46	12♌29	12♌31	17♊16	18♊34	15♌ 0	1♌ 4	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
T 1	3s14	22s49	0s49	6s52	2s29	7s 5	7s44	13n 8	1n19	16n38	1s16	22n27	0s53	20n16	0n33	3s 4
F 2	3 38 23	0 0n17	6 9 2	12 6 43	7 35 12	55 1 19	16 36 1	16 22 27	0 53 20	15 0 33	3 5 1 34	0 51 15	37 23	4 23 7	13 25	5 26 5 49
S 3	4 1 22	4 1 21	5 24 1 53	6 21 7 25	12 42 1 19	16 35 1 16	22 27 0 53	20 15 0 33	3 6 1 34	0 51 15	38 23	4 23 7	13 22	5 27 5 49		
S 4	4 24 20	8 2 20	4 38 1 33	5 59 7 14	12 30 1 20	16 34 1 17	22 27 0 53	20 15 0 33	3 7 1 34	0 50 15	38 23	4 23 7	13 20	5 28 5 48		
M 5	4 48 17	22 3 13	3 54 1 13	5 37 7 3	12 17 1 20	16 32 1 17	22 27 0 53	20 14 0 33	3 8 1 34	0 50 15	38 23	3 23 6	13 18	5 29 5 48		
T 6	5 11 13	53 3 57	3 11 0 52	5 16 6 51	12 4 1 20	16 31 1 17	22 27 0 53	20 14 0 33	3 9 1 34	0 50 15	38 23	3 23 6	13 15	5 30 5 48		
W 7	5 34 9	52 4 31	2 32 0 32	4 55 6 39	11 51 1 21	16 30 1 17	22 27 0 53	20 13 0 34	3 10 1 34	0 49 15	38 23	3 23 6	13 13	5 31 5 47		
T 8	5 57 5	26 4 53	1 56 0 12	4 34 6 26	11 38 1 21	16 28 1 17	22 27 0 53	20 13 0 34	3 10 1 34	0 49 15	38 23	2 23 6	13 11	5 32 5 47		
F 9	6 20 0	44 5 3	1 26 0n 7	4 14 6 13	11 25 1 21	16 26 1 17	22 27 0 53	20 13 0 34	3 11 1 34	0 48 15	38 23	1 23 5	13 8	5 33 5 47		
S 10	6 43 4n	3 4 59	1 0 0 25	3 55 6 0	11 12 1 22	16 25 1 17	22 27 0 53	20 12 0 34	3 12 1 34	0 48 15	39 23	0 23 5	13 6	5 34 5 47		
S 11	7 6 8	46 4 40	0 40 0 42	3 36 5 46	10 58 1 22	16 23 1 17	22 27 0 53	20 12 0 34	3 13 1 34	0 48 15	39 22	59 23	5 13 3	5 35 5 46		
M12	7 28 13	11 4 7	0 26 0 57	3 18 5 33	10 45 1 22	16 22 1 17	22 26 0 53	20 12 0 34	3 14 1 34	0 47 15	39 22	58 23	5 13 1	5 35 5 46		
T 13	7 51 17	4 3 20	0 17 1 11	3 1 5 19	10 32 1 22	16 20 1 17	22 26 0 53	20 12 0 34	3 15 1 34	0 47 15	39 22	58 23	4 12 59	5 36 5 46		
W14	8 13 20	9 2 23	0 15 1 23	2 45 5 5	10 19 1 23	16 18 1 17	22 26 0 53	20 11 0 34	3 16 1 34	0 46 15	39 22	57 23	4 12 56	5 37 5 45		
T 15	8 36 22	10 1 16	0 17 1 34	2 30 4 51	10 5 1 23	16 16 1 17	22 26 0 53	20 11 0 34	3 16 1 34	0 46 15	39 22	57 23	4 12 54	5 38 5 45		
F 16	8 58 22	56 0 4	0 25 1 42	2 16 4 37	9 52 1 23	16 14 1 17	22 26 0 53	20 11 0 34	3 17 1 34	0 46 15	39 22	57 23	4 12 52	5 39 5 45		
S 17	9 20 22	20 1s 9	0 38 1 50	2 2 4 23	9 39 1 24	16 13 1 17	22 26 0 53	20 11 0 34	3 18 1 34	0 45 15	39 22	57 23	3 12 49	5 40 5 44		
S 18	9 42 20	22 2 19	0 54 1 56	1 50 4 9	9 25 1 24	16 11 1 17	22 26 0 53	20 10 0 34	3 19 1 34	0 45 15	39 22	57 23	3 12 47	5 41 5 44		
M19	10 4 17	9 3 21	1 15 2 0	1 39 3 56	9 12 1 24	16 9 1 17	22 26 0 53	20 10 0 34	3 20 1 34	0 45 15	39 22	57 23	3 12 45	5 41 5 44		
T 20	10 26 12	54 4 12	1 39 2 4	1 29 3 42	8 58 1 25	16 7 1 17	22 26 0 53	20 10 0 34	3 21 1 34	0 44 15	39 22	57 23	3 12 42	5 42 5 43		
W21	10 47 7	55 4 48	2 6 2 6	1 20 3 28	8 44 1 25	16 5 1 17	22 26 0 53	20 10 0 34	3 21 1 34	0 44 15	40 22	56 23	2 12 40	5 43 5 43		
T 22	11 8 2	28 5 6	2 35 2 7	1 12 3 15	8 31 1 25	16 3 1 17	22 26 0 53	20 10 0 34	3 22 1 34	0 43 15	40 22	56 23	2 12 37	5 44 5 42		
F 23	11 30 3s	6 5 4	3 7 2 7	1 5 3 2	8 17 1 26	16 1 1 17	22 26 0 53	20 9 0 34	3 23 1 34	0 43 15	40 22	55 23	2 12 35	5 44 5 42		
S 24	11 51 8	28 4 44	3 41 2 6	0 59 2 49	8 4 1 26	15 59 1 17	22 26 0 53	20 9 0 34	3 24 1 34	0 43 15	40 22	55 23	2 12 33	5 45 5 42		
S 25	12 12 13	20 4 6	4 16 2 5	0 54 2 37	7 50 1 26	15 57 1 17	22 26 0 53	20 9 0 34	3 25 1 34	0 42 15	40 22	54 23	1 12 30	5 46 5 41		
M26	12 32 17	23 3 15	4 53 2 2	0 50 2 24	7 36 1 26	15 55 1 17	22 27 0 53	20 9 0 34	3 26 1 34	0 42 15	40 22	53 23	1 12 28	5 47 5 41		
T 27	12 53 20	25 2 13	5 30 1 59	0 47 2 12	7 23 1 27	15 52 1 17	22 27 0 53	20 9 0 34	3 26 1 35	0 42 15	40 22	53 23	1 12 25	5 47 5 41		
W28	13 13 22	15 1 6	6 38 1 56	0 45 2 0	7 9 1 27	15 50 1 17	22 27 0 53	20 9 0 34	3 27 1 35	0 41 15	40 22	52 23	1 12 23	5 48 5 40		
T 29	13 33 22	53 0n 3	6 47 1 52	0 44 1 48	6 55 1 27	15 48 1 17	22 27 0 53	20 9 0 34	3 28 1 35	0 41 15	40 22	52 23	0 12 21	5 48 5 40		
F 30	13 53 22	19 1 10	7 27 1 48	0 44 1 37	6 41 1 28	15 46 1 17	22 27 0 53	20 9 0 34	3 29 1 35	0 41 15	40 22	52 23	0 12 18	5 49 5 40		
S 31	14s12	20s41	2n13	8s 6	1n43	0s45	1s26	6n28	1n28	15n44	1s17	22n27	0s53	20n 8	0n34	3s30

Julian Day Number = 2313026.5, Delta T = 65.86 sec
Ecliptic obliquity = 23°29'18", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°26'50", Lahiri = 18°33'50"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1620

geocentric

NOVEMBER 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 42 31	9♉ 0'57	24♊30	26♋37	29♌6	17♍41	16°R55	6°R35	2♎46	12♏31	12°R30	17♐18	18♑31	15♒7	1°R 3	S 1
M 2	2 46 28	10° 1'13	6♈23	28°14	29°37	18°17	16♌47	6♍33	2°46	12°33	12♎29	17°R18	18°28	15°13	1♈3	M 2
T 3	2 50 25	11° 1'30	18°14	29°51	0♎9	18°52	16°39	6°32	2°47	12°35	12°28	17°18	18°24	15°20	1° 2	T 3
W 4	2 54 21	12° 1'49	0♈8	1♉28	0°43	19°28	16°31	6°30	2°47	12°37	12°27	17°16	18°21	15°27	1° 2	W 4
T 5	2 58 18	13° 2'09	12° 9	3° 5	1°19	20° 4	16°23	6°28	2°47	12°39	12°26	17°13	18°18	15°33	1° 2	T 5
F 6	3 2 14	14° 2'30	24°22	4°42	1°56	20°40	16°14	6°26	2°47	12°41	12°25	17° 8	18°15	15°40	1° 1	F 6
S 7	3 6 11	15° 2'53	6♏50	6°19	2°34	21°15	16° 6	6°24	2°47	12°43	12°24	17° 3	18°12	15°47	1° 1	S 7
S 8	3 10 7	16° 3'18	19°36	7°56	3°13	21°51	15°58	6°22	2°R47	12°45	12°22	16°58	18° 9	15°53	1° 1	S 8
M 9	3 14 4	17° 3'44	2♈38	9°33	3°54	22°26	15°50	6°19	2°47	12°47	12°21	16°52	18° 5	16° 0	1° 1	M 9
T 10	3 18 0	18° 4'12	15°59	11° 9	4°35	23° 2	15°42	6°17	2°47	12°49	12°20	16°49	18° 2	16° 7	1° 1	T 10
W 11	3 21 57	19° 4'41	29°34	12°46	5°18	23°37	15°34	6°15	2°47	12°51	12°19	16°46	17°59	16°14	1°D 1	W 11
T 12	3 25 54	20° 5'12	13♊24	14°22	6° 2	24°13	15°25	6°12	2°47	12°53	12°18	16°D45	17°56	16°20	1° 1	T 12
F 13	3 29 50	21° 5'45	27°23	15°58	6°47	24°48	15°17	6° 9	2°46	12°55	12°17	16°45	17°53	16°27	1° 1	F 13
S 14	3 33 47	22° 6'19	11♋29	17°34	7°33	25°23	15° 9	6° 7	2°46	12°57	12°16	16°46	17°49	16°34	1° 1	S 14
S 15	3 37 43	23° 6'55	25°39	19°10	8°20	25°58	15° 1	6° 4	2°46	12°58	12°15	16°48	17°46	16°40	1° 1	S 15
M 16	3 41 40	24° 7'33	9♉51	20°45	9° 8	26°34	14°53	6° 1	2°45	13° 0	12°14	16°49	17°43	16°47	1° 1	M 16
T 17	3 45 36	25° 8'12	24° 3	22°20	9°57	27° 9	14°45	5°58	2°45	13° 2	12°12	16°R50	17°40	16°54	1° 2	T 17
W 18	3 49 33	26° 8'54	8♌11	23°55	10°47	27°44	14°38	5°55	2°44	13° 4	12°11	16°49	17°37	17° 0	1° 2	W 18
T 19	3 53 29	27° 9'36	22°16	25°30	11°37	28°19	14°30	5°51	2°44	13° 6	12°10	16°48	17°34	17° 7	1° 3	T 19
F 20	3 57 26	28°10'21	6♊13	27° 5	12°28	28°54	14°22	5°48	2°43	13° 7	12° 9	16°46	17°30	17°14	1° 3	F 20
S 21	4 1 23	29°11'07	20° 2	28°40	13°21	29°29	14°14	5°45	2°42	13° 9	12° 8	16°43	17°27	17°21	1° 4	S 21
S 22	4 5 19	0♈11'55	3♉39	0♈14	14°13	0♎3	14° 7	5°41	2°42	13°11	12° 7	16°41	17°24	17°27	1° 4	S 22
M 23	4 9 16	1°12'44	17° 4	1°49	15° 7	0°38	13°59	5°38	2°41	13°12	12° 6	16°39	17°21	17°34	1° 5	M 23
T 24	4 13 12	2°13'34	0♈13	3°23	16° 1	1°13	13°52	5°34	2°40	13°14	12° 5	16°37	17°18	17°41	1° 6	T 24
W 25	4 17 9	3°14'26	13° 7	4°57	16°56	1°48	13°45	5°30	2°39	13°15	12° 4	16°D37	17°15	17°47	1° 7	W 25
T 26	4 21 5	4°15'19	25°45	6°31	17°51	2°22	13°37	5°26	2°38	13°17	12° 3	16°37	17°11	17°54	1° 8	T 26
F 27	4 25 2	5°16'12	8♊8	8° 5	18°47	2°57	13°30	5°23	2°37	13°19	12° 2	16°38	17° 8	18° 1	1° 8	F 27
S 28	4 28 58	6°17'07	20°18	9°39	19°44	3°31	13°23	5°19	2°36	13°20	12° 1	16°39	17° 5	18° 8	1°10	S 28
S 29	4 32 55	7°18'03	2♈18	11°13	20°41	4° 6	13°16	5°15	2°35	13°22	12° 0	16°40	17° 2	18°14	1°11	S 29
M 30	4 36 52	8♌18'59	14♈11	12♌47	21♋39	4♊40	13♊10	5♋10	2♎34	13♋23	11♌59	16♌41	16♌59	18♈21	1♈12	M 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
S 1	14s32	18s10	3n 9	8s46	1n38	0s47	1s15	6n14	1n28	15n42	1s17	22n27	0s53	20n 8	0n34	3s30	1n35	0n40	15s40	22s53	22s59	12s13	5s50	5n39			
M 2	14 51	14 54	3 56	9 26	1 32	0 50	1 4	6 0	1 29	15 39	1 17	22 27	0 53	20 8	0 35	3 31	1 35	0 40	15 40	22 53	22 59	12 11	5 51	5 38			
T 3	15 10	11 4	4 33	10 5	1 26	0 53	0 54	5 46	1 29	15 37	1 17	22 27	0 53	20 8	0 35	3 32	1 35	0 39	15 40	22 53	22 59	12 9	5 51	5 38			
W 4	15 29	6 48	4 58	10 45	1 21	0 57	0 44	5 33	1 29	15 35	1 17	22 27	0 53	20 8	0 35	3 33	1 35	0 39	15 40	22 53	22 59	12 6	5 52	5 38			
T 5	15 47	2 14	5 11	11 24	1 14	1 2	0 34	5 19	1 29	15 33	1 17	22 27	0 53	20 8	0 35	3 33	1 35	0 39	15 40	22 52	22 58	12 4	5 52	5 37			
F 6	16 5	2n30	5 9	12 3	1 8	1 8	0 24	5 5	1 30	15 30	1 17	22 27	0 53	20 8	0 35	3 34	1 35	0 39	15 40	22 52	22 58	12 1	5 53	5 37			
S 7	16 23	7 13	4 54	12 41	1 2	1 15	0 15	4 51	1 30	15 28	1 17	22 28	0 52	20 8	0 35	3 35	1 35	0 38	15 40	22 51	22 58	11 59	5 53	5 37			
S 8	16 41	11 44	4 23	13 19	0 55	1 22	0 6	4 37	1 30	15 26	1 16	22 28	0 52	20 8	0 35	3 36	1 35	0 38	15 40	22 51	22 57	11 57	5 54	5 36			
M 9	16 58	15 50	3 38	13 56	0 48	1 30	0n 3	4 24	1 31	15 24	1 16	22 28	0 52	20 8	0 35	3 36	1 35	0 38	15 40	22 50	22 57	11 54	5 54	5 36			
T 10	17 15	19 13	2 41	14 33	0 42	1 39	0 12	4 10	1 31	15 21	1 16	22 28	0 52	20 9	0 35	3 37	1 35	0 37	15 40	22 50	22 57	11 52	5 54	5 35			
W 11	17 32	21 37	1 33	15 9	0 35	1 48	0 20	3 56	1 31	15 19	1 16	22 28	0 52	20 9	0 35	3 38	1 35	0 37	15 40	22 50	22 57	11 49	5 55	5 35			
T 12	17 48	22 45	0 18	15 44	0 28	1 59	0 28	3 42	1 31	15 17	1 16	22 28	0 52	20 9	0 35	3 38	1 35	0 37	15 39	22 50	22 56	11 47	5 55	5 35			
F 13	18 4	22 30	0s58	16 19	0 21	2 9	0 36	3 28	1 32	15 15	1 16	22 28	0 52	20 9	0 35	3 39	1 35	0 37	15 39	22 50	22 56	11 45	5 55	5 34			
S 14	18 20	20 48	2 12	16 52	0 15	2 21	0 43	3 15	1 32	15 12	1 16	22 29	0 52	20 9	0 35	3 40	1 35	0 36	15 39	22 50	22 56	11 42	5 56	5 34			
S 15	18 35	17 49	3 18	17 25	0 8	2 32	0 50	3 1	1 32	15 10	1 16	22 29	0 52	20 9	0 35	3 40	1 35	0 36	15 39	22 50	22 55	11 40	5 56	5 33			
M 16	18 50	13 46	4 12	17 58	0 1	2 45	0 57	2 47	1 32	15 8	1 15	22 29	0 52	20 9	0 35	3 41	1 35	0 36	15 39	22 50	22 55	11 37	5 56	5 33			
T 17	19 5	8 58	4 51	18 29	0s 6	2 58	1 4	2 33	1 33	15 6	1 15	22 29	0 52	20 9	0 35	3 42	1 35	0 36	15 39	22 50	22 55	11 35	5 57	5 33			
W 18	19 20	3 42	5 12	18 59	0 12	3 11	1 11	2 20	1 33	15 4	1 15	22 29	0 52	20 9	0 35	3 42	1 35	0 36	15 39	22 50	22 55	11 33	5 57	5 32			
T 19	19 34	1s44	5 14	19 29	0 19	3 25	1 17	2 6	1 33	15 2	1 15	22 29	0 52	20 10	0 35	3 43	1 35	0 35	15 39	22 50	22 54	11 30	5 57	5 32			
F 20	19 48	7 1	4 57	19 58	0 25	3 40	1 23	1 52	1 34	14 59	1 15	22 30	0 52	20 10	0 35	3 44	1 35	0 35	15 39	22 50	22 54	11 28	5 57	5 31			
S 21	20 1	11 55	4 24	20 25	0 32	3 55	1 29	1 39	1 34	14 57	1 15	22 30	0 52	20 10	0 35	3 44	1 35	0 35	15 39	22 49	22 54	11 25	5 57	5 31			
S 22	20 14	16 8	3 36	20 52	0 38	4 10	1 35	1 25	1 34	14 55	1 14	22 30	0 52	20 10	0 35	3 45	1 35	0 35	15 38	22 49	22 53	11 23	5 57	5 31			
M 23	20 27	19 28	2 36	21 18	0 45	4 26	1 40	1 11	1 34	14 53	1 14	22 30	0 52	20 10	0 35	3 45	1 35	0 35	15 38	22 49	22 53	11 20	5 58	5 30			
T 24	20 39	21 42	1 29	21 42	0 51	4 42	1 45	0 58	1 35	14 51	1 14	22 30	0 52	20 11	0 35	3 46	1 35	0 34	15 38	22 49	22 53	11 18	5 58	5 30			
W 25	20 51	22 44	0 19	22 6	0 57	4 58	1 50	0 44	1 35	14 49	1 14	22 31	0 52	20 11	0 35	3 47	1 36	0 34	15 38	22 49	22 52	11 16	5 58	5 30			
T 26	21 2	22 35	0n50	22 28	1 3	5 15	1 55	0 31	1 35	14 47	1 14	22 31	0 52	20 11	0 35	3 47	1 36	0 34	15 38	22 49	22 52	11 13	5 58	5 29			
F 27	21 13	21 18	1 56	22 50	1 8	5 32	2 0	0 17	1 35	14 45	1 13	22 31	0 52	20 11	0 35	3 48	1 36	0 34	15 38	22 49	22 52	11 11	5 58	5 29			
S 28	21 24	19 3	2 56	23 10	1 14	5 49	2 4	0 4	1 36	14 44	1 13	22 31	0 52	20 12	0 35	3 48	1 36	0 34	15 38	22 49	22 52	11 8	5 58	5 28			
S 29	21 34	16 0	3 47	23 29	1 19	6 7	2 8	0s10	1 36	14 42	1 13	22 31	0 52	20 12	0 36	3 49	1 36	0 34	15 37	22 49	22 51	11 6	5 58	5 28			
M 30	21s44	12s20	4n28	23s47	1s25	6s25	2n12	0s23	1n36	14n40	1s13	22n32	0s52	20n12	0n36	3s49	1n36	0n34	15s37	22s49	22s51	11s 3	5s58	5n28			

ASTRODIENST EPHEMERIS for the year 1620
geocentric

DECEMBER 1620 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 40 48	9♌19'56	26♋2	14♊21	22♎37	5♊14	13°R 3	5°R 6	2°R32	13♏25	11°R58	16♌41	16♌55	18♋28	1♏13	T 1
W 2	4 44 45	10°20'54	7♋55	15°56	23°36	5°48	12♏57	5♏2	2♏31	13°26	11♏57	16°R41	16°52	18°34	1°14	W 2
T 3	4 48 41	11°21'53	19°56	17°30	24°35	6°22	12°50	4°58	2°30	13°27	11°56	16°41	16°49	18°41	1°15	T 3
F 4	4 52 38	12°22'52	2°Y 7	19° 4	25°35	6°56	12°44	4°53	2°28	13°29	11°55	16°41	16°46	18°48	1°17	F 4
S 5	4 56 34	13°23'52	14°35	20°38	26°35	7°30	12°38	4°49	2°27	13°30	11°54	16°41	16°43	18°54	1°18	S 5
S 6	5 0 31	14°24'52	27°22	22°12	27°36	8° 4	12°32	4°45	2°26	13°31	11°53	16°40	16°40	19° 1	1°20	S 6
M 7	5 4 27	15°25'53	10♊32	23°46	28°37	8°38	12°27	4°40	2°24	13°33	11°52	16°40	16°36	19° 8	1°21	M 7
T 8	5 8 24	16°26'55	24° 4	25°20	29°38	9°12	12°21	4°35	2°23	13°34	11°51	16°D40	16°33	19°15	1°23	T 8
W 9	5 12 21	17°27'57	7♊58	26°55	0♏40	9°45	12°16	4°31	2°21	13°35	11°50	16°40	16°30	19°21	1°24	W 9
T 10	5 16 17	18°29'00	22°11	28°29	1°42	10°19	12°11	4°26	2°19	13°36	11°49	16°R40	16°27	19°28	1°26	T 10
F 11	5 20 14	19°30'04	6♏39	0♊3	2°45	10°53	12° 6	4°22	2°18	13°37	11°49	16°40	16°24	19°35	1°28	F 11
S 12	5 24 10	20°31'09	21°15	1°38	3°48	11°26	12° 1	4°17	2°16	13°39	11°48	16°40	16°21	19°41	1°30	S 12
S 13	5 28 7	21°32'14	5♏53	3°12	4°51	11°59	11°56	4°12	2°14	13°40	11°47	16°39	16°17	19°48	1°32	S 13
M14	5 32 3	22°33'20	20°28	4°46	5°55	12°33	11°51	4° 7	2°12	13°41	11°46	16°39	16°14	19°55	1°33	M14
T 15	5 36 0	23°34'26	4♏54	6°20	6°59	13° 6	11°47	4° 2	2°11	13°42	11°45	16°38	16°11	20° 2	1°35	T 15
W16	5 39 56	24°35'34	19° 7	7°54	8° 4	13°39	11°43	3°58	2° 9	13°43	11°44	16°D38	16° 8	20° 8	1°37	W16
T 17	5 43 53	25°36'42	3♊5	9°27	9° 8	14°12	11°39	3°53	2° 7	13°44	11°44	16°38	16° 5	20°15	1°40	T 17
F 18	5 47 50	26°37'51	16°48	11° 0	10°13	14°45	11°35	3°48	2° 5	13°45	11°43	16°38	16° 1	20°22	1°42	F 18
S 19	5 51 46	27°39'00	0♏15	12°33	11°18	15°18	11°32	3°43	2° 3	13°46	11°42	16°39	15°58	20°28	1°44	S 19
S 20	5 55 43	28°40'10	13°28	14° 5	12°24	15°50	11°28	3°38	2° 1	13°47	11°41	16°40	15°55	20°35	1°46	S 20
M21	5 59 39	29°41'21	26°27	15°37	13°30	16°23	11°25	3°33	1°59	13°47	11°41	16°41	15°52	20°42	1°48	M21
T 22	6 3 36	0♊42'32	9♌13	17° 7	14°36	16°56	11°22	3°28	1°57	13°48	11°40	16°42	15°49	20°49	1°51	T 22
W23	6 7 32	1°43'44	21°47	18°36	15°42	17°28	11°19	3°23	1°55	13°49	11°39	16°R42	15°46	20°55	1°53	W23
T 24	6 11 29	2°44'56	4♊10	20° 4	16°48	18° 0	11°17	3°18	1°52	13°50	11°39	16°41	15°42	21° 2	1°55	T 24
F 25	6 15 26	3°46'07	16°23	21°30	17°55	18°33	11°14	3°13	1°50	13°51	11°38	16°40	15°39	21° 9	1°58	F 25
S 26	6 19 22	4°47'19	28°27	22°54	19° 2	19° 5	11°12	3° 8	1°48	13°51	11°37	16°37	15°36	21°15	2° 0	S 26
S 27	6 23 19	5°48'31	10♋24	24°15	20° 9	19°37	11°10	3° 3	1°46	13°52	11°37	16°34	15°33	21°22	2° 3	S 27
M28	6 27 15	6°49'43	22°17	25°34	21°17	20° 9	11° 9	2°58	1°43	13°52	11°36	16°30	15°30	21°29	2° 6	M28
T 29	6 31 12	7°50'54	4♏7	26°49	22°24	20°40	11° 7	2°53	1°41	13°53	11°36	16°27	15°27	21°35	2° 8	T 29
W30	6 35 8	8°52'05	15°59	28° 0	23°32	21°12	11° 6	2°48	1°39	13°54	11°35	16°24	15°23	21°42	2°11	W30
T 31	6 39 5	9♊53'16	27♏57	29♊7	24♏40	21♊44	11♏5	2°44	1♏36	13♏54	11♏35	16♌23	15♌20	21♋49	2♏14	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s54	8s12	4n57	24s 3	1s30	6s43	2n16	0s36	1n36	14n38	1s13	22n32	0s52	20n13	0n36	3s50
W 2	22 3	3 46	5 14	24 18	1 34	7 1	2 19	0 50	1 37	14 36	1 12	22 32	0 52	20 13	0 36	3 50
T 3	22 11	0n52	5 17	24 33	1 39	7 20	2 23	1 3	1 37	14 35	1 12	22 32	0 51	20 13	0 36	3 51
F 4	22 19	5 31	5 6	24 45	1 43	7 39	2 26	1 16	1 37	14 33	1 12	22 32	0 51	20 14	0 36	3 51
S 5	22 27	10 4	4 41	24 57	1 48	7 58	2 29	1 30	1 37	14 31	1 12	22 33	0 51	20 14	0 36	3 52
S 6	22 35	14 18	4 1	25 7	1 52	8 17	2 32	1 43	1 38	14 30	1 11	22 33	0 51	20 14	0 36	3 52
M 7	22 41	17 58	3 8	25 15	1 55	8 36	2 34	1 56	1 38	14 28	1 11	22 33	0 51	20 15	0 36	3 53
T 8	22 48	20 48	2 2	25 23	1 59	8 55	2 37	2 9	1 38	14 27	1 11	22 33	0 51	20 15	0 36	3 53
W 9	22 54	22 28	0 48	25 29	2 2	9 15	2 39	2 22	1 38	14 26	1 11	22 34	0 51	20 15	0 36	3 54
T 10	22 59	22 45	0s31	25 33	2 4	9 34	2 41	2 35	1 39	14 24	1 10	22 34	0 51	20 16	0 36	3 54
F 11	23 4	21 31	1 49	25 36	2 7	9 54	2 43	2 48	1 39	14 23	1 10	22 34	0 51	20 16	0 36	3 54
S 12	23 9	18 50	3 0	25 37	2 9	10 14	2 45	3 1	1 39	14 22	1 10	22 34	0 51	20 17	0 36	3 55
S 13	23 13	14 57	4 1	25 37	2 11	10 33	2 46	3 13	1 39	14 21	1 10	22 35	0 51	20 17	0 36	3 55
M14	23 17	10 11	4 45	25 36	2 12	10 53	2 48	3 26	1 40	14 19	1 9	22 35	0 51	20 18	0 36	3 56
T 15	23 20	4 55	5 11	25 33	2 13	11 13	2 49	3 39	1 40	14 18	1 9	22 35	0 51	20 18	0 36	3 56
W16	23 23	0s33	5 17	25 28	2 13	11 33	2 50	3 52	1 40	14 17	1 9	22 35	0 50	20 18	0 36	3 56
T 17	23 25	5 53	5 4	25 22	2 13	11 52	2 51	4 4	1 40	14 16	1 8	22 35	0 50	20 19	0 36	3 57
F 18	23 27	10 50	4 34	25 14	2 12	12 12	2 52	4 17	1 41	14 16	1 8	22 36	0 50	20 19	0 36	3 57
S 19	23 28	15 10	3 50	25 4	2 11	12 31	2 52	4 29	1 41	14 15	1 8	22 36	0 50	20 20	0 36	3 57
S 20	23 29	18 41	2 54	24 53	2 10	12 51	2 53	4 42	1 41	14 14	1 8	22 36	0 50	20 20	0 36	3 58
M21	23 29	21 11	1 50	24 41	2 7	13 10	2 53	4 54	1 41	14 13	1 7	22 36	0 50	20 21	0 36	3 58
T 22	23 29	22 33	0 41	24 27	2 5	13 29	2 53	5 6	1 41	14 13	1 7	22 37	0 50	20 21	0 36	3 58
W23	23 29	22 46	0n28	24 11	2 1	13 48	2 53	5 18	1 42	14 12	1 7	22 37	0 50	20 22	0 36	3 58
T 24	23 28	21 50	1 35	23 54	1 57	14 7	2 53	5 30	1 42	14 11	1 6	22 37	0 50	20 22	0 36	3 59
F 25	23 26	19 53	2 37	23 36	1 52	14 26	2 53	5 43	1 42	14 11	1 6	22 37	0 50	20 23	0 36	3 59
S 26	23 24	17 5	3 30	23 16	1 46	14 45	2 53	5 54	1 42	14 11	1 6	22 38	0 50	20 23	0 36	3 59
S 27	23 22	13 35	4 14	22 56	1 39	15 3	2 52	6 6	1 42	14 10	1 6	22 38	0 49	20 24	0 36	3 59
M28	23 19	9 35	4 47	22 34	1 31	15 21	2 52	6 18	1 43	14 10	1 5	22 38	0 49	20 24	0 36	3 59
T 29	23 15	5 15	5 7	22 11	1 23	15 39	2 51	6 30	1 43	14 10	1 5	22 38	0 49	20 25	0 36	4 0
W30	23 11	0 42	5 15	21 48	1 13	15 57	2 50	6 42	1 43	14 10	1 5	22 38	0 49	20 26	0 36	4 0
T 31	23s 7	3n54	5n 8	21s24	1s 2	16s14	2n49	6s53	1n43	14n10	1s 4	22n39	0s49	20n26	0n36	4s 0

Julian Day Number = 2313087.5, Delta T = 65.71 sec
Ecliptic obliquity = 23°29'16", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°26'58", Lahiri = 18°33'58"Greg. Calendar