



Astrodienst Ephemeris Tables for the year 1676

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 D5EPH

ASTRODIENST EPHEMERIS for the year 1676
geocentric

JANUARY 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 41 45	10°32'41	8°53'	17°51'	20°23'	20°19'	3°8'	5°R 5	26°25'	10°37'	7°R38	1°R56	1°332	10°8' 2	28°5'	W 1
T 2	6 45 42	11°33'50	21°35'	18°59'	21°38'	21° 3	3°22'	5°B 5	26°27'	10°39'	7°B37	1°B55	1°29	10° 9	28° 7	T 2
F 3	6 49 38	12°34'59	4°130	20° 9	22°53'	21°47'	3°36'	5° 4	26°28'	10°41'	7°36'	1°54	1°26	10°16	28° 8	F 3
S 4	6 53 35	13°36'07	17°39	21°21	24° 9	22°31	3°49'	5° 4	26°30'	10°43'	7°34	1°53	1°23	10°22	28° 9	S 4
S 5	6 57 31	14°37'16	1°11	22°35	25°24	23°16	4° 3	5° 4	26°31'	10°45'	7°33	1°51	1°20	10°29	28°11	S 5
M 6	7 1 128	15°38'25	14°36	23°51	26°39	24° 0	4°17	5°D 3	26°33'	10°47'	7°32	1°49	1°17	10°36	28°12	M 6
T 7	7 5 25	16°39'33	28°22	25° 8	27°55	24°44	4°31	5° 3	26°34'	10°49'	7°31	1°48	1°13	10°42	28°14	T 7
W 8	7 9 21	17°40'41	12°19	26°27	29°10	25°29	4°44	5° 4	26°36'	10°51'	7°30	1°D47	1°10	10°49	28°16	W 8
T 9	7 13 18	18°41'50	26°25	27°47	0°25	26°13	4°58	5° 4	26°38'	10°54'	7°28	1°47	1° 7	10°56	28°17	T 9
F 10	7 17 14	19°42'58	10°140	29° 8	1°40	26°57	5°12	5° 4	26°39'	10°56'	7°27	1°48	1° 4	11° 2	28°19	F 10
S 11	7 21 11	20°44'06	25° 0	0°330	2°56	27°42	5°25	5° 5	26°41'	10°58'	7°26	1°49	1° 1	11° 9	28°21	S 11
S 12	7 25 7	21°45'14	9°22	1°53	4°11	28°27	5°39	5° 5	26°43'	11° 0	7°25	1°51	0°57	11°16	28°23	S 12
M13	7 29 4	22°46'22	23°44	3°17	5°26	29°11	5°53	5° 6	26°45'	11° 2	7°23	1°52	0°54	11°23	28°25	M13
T 14	7 33 0	23°47'29	8°3	4°42	6°42	29°56	6° 6	5° 7	26°47'	11° 4	7°22	1°R52	0°51	11°29	28°27	T 14
W15	7 36 57	24°48'36	22° 6	6° 8	7°57	0°340	6°20	5° 8	26°49'	11° 7	7°21	1°51	0°48	11°36	28°29	W15
T 16	7 40 54	25°49'42	5°57	7°34	9°12	1°25	6°33	5° 9	26°51'	11° 9	7°20	1°48	0°45	11°43	28°31	T 16
F 17	7 44 50	26°50'48	19°30	9° 2	10°27	2°10	6°47	5°10	26°53'	11°11	7°19	1°45	0°42	11°49	28°33	F 17
S 18	7 48 47	27°51'52	2°43	10°30	11°42	2°55	7° 0	5°11	26°55'	11°13	7°18	1°40	0°38	11°56	28°35	S 18
S 19	7 52 43	28°52'55	15°35	11°59	12°58	3°40	7°13	5°12	26°57'	11°16	7°16	1°36	0°35	12° 3	28°37	S 19
M20	7 56 40	29°53'58	28° 7	13°28	14°13	4°24	7°27	5°14	26°59'	11°18	7°15	1°32	0°32	12° 9	28°39	M20
T 21	8 0 36	0°54'59	10°23	14°58	15°28	5° 9	7°40	5°15	27° 1	11°20	7°14	1°29	0°29	12°16	28°41	T 21
W22	8 4 33	1°55'59	22°26	16°29	16°43	5°54	7°53	5°17	27° 4	11°22	7°13	1°27	0°26	12°23	28°44	W22
T 23	8 8 29	2°56'59	4°20	18° 1	17°58	6°39	8° 7	5°19	27° 6	11°25	7°12	1°D26	0°23	12°29	28°46	T 23
F 24	8 12 26	3°57'57	16°10	19°33	19°13	7°24	8°20	5°21	27° 8	11°27	7°11	1°27	0°19	12°36	28°48	F 24
S 25	8 16 23	4°58'53	28° 2	21° 6	20°28	8° 9	8°33	5°23	27°11	11°29	7°10	1°29	0°16	12°43	28°51	S 25
S 26	8 20 19	5°59'49	10°11	22°39	21°43	8°54	8°46	5°25	27°13	11°31	7° 9	1°31	0°13	12°50	28°53	S 26
M27	8 24 16	7° 0'43	22° 8	24°14	22°58	9°39	8°59	5°27	27°16	11°34	7° 8	1°32	0°10	12°56	28°56	M27
T 28	8 28 12	8° 1'36	4°31	25°48	24°13	10°24	9°12	5°30	27°18	11°36	7° 7	1°R32	0° 7	13° 3	28°58	T 28
W29	8 32 9	9° 2'28	17°12	27°24	25°28	11°10	9°25	5°32	27°21	11°38	7° 5	1°31	0° 3	13°10	29° 1	W29
T 30	8 36 5	10° 3'19	0°11	29° 0	26°43	11°55	9°38	5°35	27°23	11°40	7° 4	1°28	0° 0	13°16	29° 4	T 30
F 31	8 40 2	11° 4'08	13°130	0°38	27°58	12°340	9°351	5°37	27°26	11°43	7° 3	1°B23	29°57	13°23	29°6	F 31

Delta T = 26.01 sec

Greg. Calendar

FEBRUARY 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 43 59	12°45'6	27°11	2°15	29°13	13°25	10°3	5°B40	27°28	11°45	7°R 2	1°R17	29°54	13°30	29°9	S 1
S 2	8 47 55	13° 5'43	10°56	3°54	0°28	14°11	10°17	5°43	27°31	11°47	7°B 1	1°B 9	29°51	13°36	29°12	S 2
M 3	8 51 52	14° 6'29	24°57	5°33	1°43	14°56	10°29	5°46	27°34	11°50	7° 1	1° 2	29°48	13°43	29°15	M 3
T 4	8 55 48	15° 7'14	9° 5	7°13	2°58	15°41	10°42	5°49	27°36	11°52	7° 0	0°57	29°44	13°50	29°17	T 4
W 5	8 59 45	16° 7'57	23°16	8°54	4°13	16°27	10°55	5°52	27°39	11°54	6°59	0°52	29°41	13°56	29°20	W 5
T 6	9 3 41	17° 8'40	7°126	10°36	5°28	17°12	11° 7	5°55	27°42	11°56	6°58	0°50	29°38	14° 3	29°23	T 6
F 7	9 7 38	18° 9'22	21°35	12°19	6°42	17°58	11°20	5°59	27°45	11°59	6°57	0°D50	29°35	14°10	29°26	F 7
S 8	9 11 34	19°10'02	5°40	14° 2	7°57	18°43	11°32	6° 2	27°48	12° 1	6°56	0°50	29°32	14°16	29°29	S 8
S 9	9 15 31	20°10'42	19°40	15°46	9°12	19°29	11°44	6° 6	27°50	12° 3	6°55	0°52	29°29	14°23	29°32	S 9
M10	9 19 28	21°11'20	3°35	17°32	10°27	20°14	11°57	6° 9	27°53	12° 5	6°54	0°R52	29°25	14°30	29°35	M10
T 11	9 23 24	22°11'57	17°22	19°18	11°41	21° 0	12° 9	6°13	27°56	12° 8	6°53	0°51	29°22	14°37	29°38	T 11
W12	9 27 21	23°12'33	1° 1	21° 4	12°56	21°45	12°21	6°17	27°59	12°10	6°53	0°47	29°19	14°43	29°41	W12
T 13	9 31 17	24°13'07	14°29	22°52	14°11	22°31	12°33	6°21	28° 2	12°12	6°52	0°41	29°16	14°50	29°44	T 13
F 14	9 35 14	25°13'40	27°44	24°41	15°25	23°17	12°45	6°25	28° 5	12°14	6°51	0°32	29°13	14°57	29°47	F 14
S 15	9 39 10	26°14'11	10°44	26°30	16°40	24° 2	12°57	6°29	28° 8	12°17	6°50	0°22	29° 9	15° 3	29°51	S 15
S 16	9 43 7	27°14'40	23°29	28°21	17°54	24°48	13° 9	6°33	28°11	12°19	6°49	0°11	29° 6	15°10	29°54	S 16
M17	9 47 3	28°15'08	5°58	0°12	19° 9	25°34	13°21	6°38	28°14	12°21	6°49	0° 1	29° 3	15°17	29°57	M17
T 18	9 51 0	29°15'34	18°12	2° 3	20°23	26°20	13°32	6°42	28°17	12°23	6°48	29°52	29° 0	15°23	0°0	T 18
W19	9 54 56	0°15'58	0°14	3°56	21°38	27° 5	13°44	6°46	28°20	12°26	6°47	29°45	28°57	15°30	0° 3	W19
T 20	9 58 53	1°16'20	12° 8	5°49	22°52	27°51	13°55	6°51	28°24	12°28	6°47	29°41	28°54	15°37	0° 7	T 20
F 21	10 2 50	2°16'40	23°57	7°43	24° 7	28°37	14° 7	6°56	28°27	12°30	6°46	29°38	28°50	15°43	0°10	F 21
S 22	10 6 46	3°16'58	5°47	9°37	25°21	29°23	14°18	7° 0	28°30	12°32	6°45	29°D38	28°47	15°50	0°13	S 22
S 23	10 10 43	4°17'14	17°44	11°31	26°35	0° 9	14°30	7° 5	28°33	12°34	6°45	29°39	28°44	15°57	0°17	S 23
M24	10 14 39	5°17'29	29°52	13°25	27°50	0°55	14°41	7°10	28°36	12°36	6°44	29°R39	28°41	16° 3	0°20	M24
T 25	10 18 36	6°17'41	12°58	15°20	29° 4	1°41	14°52	7°15	28°39	12°38	6°44	29°38	28°38	16°10	0°24	T 25
W26	10 22 32	7°17'51	25° 4	17°14	0°18	2°27	15° 3	7°20	28°43	12°41	6°43	29°35	28°35	16°17	0°27	W26
T 27	10 26 29	8°17'59	8°14	19° 7	1°32	3°13	15°14	7°25	28°46	12°43	6°43	29°30	28°31	16°23	0°30	T 27
F 28	10 30 25	9°18'05	21°48	20°59	2°46	3°59	15°25	7°30	28°49	12°45	6°42	29°22	28°28	16°30	0°34	F 28
S 29	10 34 22	10°18'09	5°46	22°50	4°1	4°45	15°35	7°36	28°53	12°47	6°42	29°12	28°25	16°37	0°37	S 29

Delta T = 25.96 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1676

geocentric

MARCH 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 38 19	11°18'11"	20°17'25"	24°40'40"	5°15'15"	5°31'31"	15°34'46"	7°41'41"	28°56'56"	12°49'49"	6°41'41"	29°R 1	28°22'22"	16°43'43"	0°41'41"	S 1
M 2	10 42 15	12°18'11"	4°42'32"	26°27'27"	6°29'29"	6°17'17"	15°56'56"	7°47'47"	28°59'59"	12°51'51"	6°41'41"	28°24'49"	28°19'19"	16°50'50"	0°44'44"	M 2
T 3	10 46 12	13°18'09"	19°8'8"	28°12'12"	7°43'43"	7°3'3'	16°7'7"	7°52'52"	29°2'2"	12°53'53"	6°40'40"	28°39'39"	28°15'15"	16°57'57"	0°48'48"	T 3
W 4	10 50 8	14°18'06"	3°14'44"	29°53'53"	8°56'56"	7°49'49"	16°17'17"	7°58'58"	29°6'6"	12°55'55"	6°40'40"	28°32'32"	28°12'12"	17°3'3'	0°51'51"	W 4
T 5	10 54 5	15°18'01"	18°12'12"	1°13'31"	10°10'10"	8°35'35"	16°27'27"	8°3'3'	29°9'9"	12°57'57"	6°40'40"	28°27'27"	28°9'9"	17°10'10"	0°55'55"	T 5
F 6	10 58 1	16°17'55"	2°27'29"	3°5'5"	11°24'24"	9°21'21"	16°38'38"	8°9'9"	29°13'13"	12°59'59"	6°39'39"	28°24'24"	28°6'6"	17°17'17"	0°59'59"	F 6
S 7	11 1 58	17°17'47"	16°34'34"	4°35'35"	12°38'38"	10°7'7"	16°48'48"	8°15'15"	29°16'16"	13°1'1"	6°39'39"	28°D24	28°3'3'	17°24'24"	1°2'2"	S 7
S 8	11 5 54	18°17'37"	0°32'25"	5°59'59"	13°52'52"	10°53'53"	16°58'58"	8°21'21"	29°19'19"	13°3'3'	6°39'39"	28°R24	28°0'0"	17°30'30"	1°6'6"	S 8
M 9	11 9 51	19°17'25"	14°3'3'	7°18'18"	15°5'5"	11°40'40"	17°7'7"	8°26'26"	29°23'23"	13°5'5"	6°38'38"	28°23'23"	27°56'56"	17°37'37"	1°9'9"	M 9
T 10	11 13 48	20°17'12"	27°30'30"	8°30'30"	16°19'19"	12°26'26"	17°17'17"	8°32'32"	29°26'26"	13°7'7"	6°38'38"	28°21'21"	27°53'53"	17°44'44"	1°13'13"	T 10
W 11	11 17 44	21°16'57"	10°45'45"	9°37'37"	17°33'33"	13°12'12"	17°27'27"	8°39'39"	29°29'29"	13°9'9"	6°38'38"	28°15'15"	27°50'50"	17°50'50"	1°17'17"	W 11
T 12	11 21 41	22°16'40"	23°49'49"	10°36'36"	18°46'46"	13°58'58"	17°36'36"	8°45'45"	29°33'33"	13°11'11"	6°38'38"	28°7'7"	27°47'47"	17°57'57"	1°20'20"	T 12
F 13	11 25 37	23°16'22"	6°43'43"	11°28'28"	20°0'0"	14°44'44"	17°45'45"	8°51'51"	29°36'36"	13°12'12"	6°38'38"	27°56'56"	27°44'44"	18°4'4"	1°24'24"	F 13
S 14	11 29 34	24°16'01"	19°24'24"	12°12'12"	21°13'13"	15°31'31"	17°55'55"	8°57'57"	29°40'40"	13°14'14"	6°37'37"	27°42'42"	27°40'40"	18°10'10"	1°27'27"	S 14
S 15	11 33 30	25°15'38"	1°15'55"	12°49'49"	22°27'27"	16°17'17"	18°4'4"	9°3'3'	29°43'43"	13°16'16"	6°37'37"	27°28'28"	27°37'37"	18°17'17"	1°31'31"	S 15
M 16	11 37 27	26°15'13"	14°13'13"	13°18'18"	23°40'40"	17°3'3'	18°13'13"	9°10'10"	29°47'47"	13°18'18"	6°37'37"	27°15'15"	27°34'34"	18°24'24"	1°35'35"	M 16
T 17	11 41 23	27°14'46"	26°21'21"	13°39'39"	24°54'54"	17°49'49"	18°21'21"	9°16'16"	29°50'50"	13°20'20"	6°37'37"	27°2'2"	27°31'31"	18°30'30"	1°38'38"	T 17
W 18	11 45 20	28°14'17"	8°19'19"	13°51'51"	26°7'7"	18°36'36"	18°30'30"	9°22'22"	29°53'53"	13°21'21"	6°37'37"	26°52'52"	27°28'28"	18°37'37"	1°42'42"	W 18
T 19	11 49 17	29°13'46"	20°10'10"	13°R56	27°20'20"	19°22'22"	18°39'39"	9°29'29"	29°57'57"	13°23'23"	6°37'37"	26°45'45"	27°25'25"	18°44'44"	1°46'46"	T 19
F 20	11 53 13	0°13'12"	1°15'58"	13°53'53"	28°33'33"	20°8'8"	18°47'47"	9°36'36"	0°13'13"	13°25'25"	6°D37	26°41'41"	27°21'21"	18°50'50"	1°49'49"	F 20
S 21	11 57 10	1°12'37"	13°47'47"	13°43'43"	29°46'46"	20°55'55"	18°56'56"	9°42'42"	0°4'4"	13°27'27"	6°37'37"	26°39'39"	27°18'18"	18°57'57"	1°53'53"	S 21
S 22	12 1 6	2°11'59"	25°42'42"	13°26'26"	1°18'18"	21°41'41"	19°4'4"	9°49'49"	0°7'7"	13°28'28"	6°37'37"	26°39'39"	27°15'15"	19°4'4"	1°57'57"	S 22
M 23	12 5 3	3°11'18"	7°34'48"	13°2'2"	2°13'13"	22°27'27"	19°12'12"	9°56'56"	0°11'11"	13°30'30"	6°37'37"	26°39'39"	27°12'12"	19°10'10"	2°0'0"	M 23
T 24	12 8 59	4°10'36"	20°11'11"	12°32'32"	3°26'26"	23°13'13"	19°20'20"	10°2'2"	0°14'14"	13°32'32"	6°37'37"	26°38'38"	27°9'9"	19°17'17"	2°4'4"	T 24
W 25	12 12 56	5°9'51"	2°15'56"	11°57'57"	4°38'38"	24°0'0"	19°28'28"	10°9'9"	0°17'17"	13°33'33"	6°37'37"	26°35'35"	27°6'6"	19°24'24"	2°8'8"	W 25
T 26	12 16 52	6°9'03"	16°7'7"	11°17'17"	5°51'51"	24°46'46"	19°35'35"	10°16'16"	0°21'21"	13°35'35"	6°37'37"	26°30'30"	27°2'2"	19°30'30"	2°11'11"	T 26
F 27	12 20 49	7°8'13"	29°46'46"	10°33'33"	7°4'4"	25°32'32"	19°43'43"	10°23'23"	0°24'24"	13°36'36"	6°38'38"	26°23'23"	26°59'59"	19°37'37"	2°15'15"	F 27
S 28	12 24 46	8°7'21"	13°17'53"	9°47'47"	8°17'17"	26°19'19"	19°50'50"	10°30'30"	0°28'28"	13°38'38"	6°38'38"	26°13'13"	26°56'56"	19°44'44"	2°19'19"	S 28
S 29	12 28 42	9°6'27"	28°25'25"	8°59'59"	9°29'29"	27°5'5"	19°57'57"	10°37'37"	0°31'31"	13°39'39"	6°38'38"	26°2'2"	26°53'53"	19°50'50"	2°22'22"	S 29
M 30	12 32 39	10°5'31"	13°14'16"	8°10'10"	10°42'42"	27°51'51"	20°5'5"	10°44'44"	0°34'34"	13°41'41"	6°38'38"	25°51'51"	26°50'50"	19°57'57"	2°26'26"	M 30
T 31	12 36 35	11°15'43"	28°15'15"	7°17'22"	11°18'55"	28°38'38"	20°11'11"	10°18'51"	0°13'38"	13°42'42"	6°39'39"	25°41'41"	26°46'46"	20°18'18"	2°30'30"	T 31

Delta T = 25.91 sec

Greg. Calendar

APRIL 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 40 32	12°13'32"	13°14'15"	6°R35	13°18'7"	29°24'24"	20°18'18"	10°18'58"	0°14'41"	13°44'44"	6°39'39"	25°R33	26°43'43"	20°18'18"	2°13'33"	W 1
T 2	12 44 28	13°2'30"	28°6'6"	5°14'49"	14°20'20"	0°10'10"	20°25'25"	11°5'5"	0°45'45"	13°45'45"	6°39'39"	25°28'28"	26°40'40"	20°17'17"	2°37'37"	T 2
F 3	12 48 25	14°1'26"	12°41'41"	5°7'7"	15°32'32"	0°57'57"	20°31'31"	11°12'12"	0°48'48"	13°46'46"	6°39'39"	25°26'26"	26°37'37"	20°24'24"	2°40'40"	F 3
S 4	12 52 21	15°0'21"	26°58'58"	4°27'27"	16°44'44"	1°43'43"	20°38'38"	11°20'20"	0°51'51"	13°48'48"	6°40'40"	25°D25	26°34'34"	20°30'30"	2°44'44"	S 4
S 5	12 56 18	15°59'14"	10°35'54"	3°52'52"	17°56'56"	2°29'29"	20°44'44"	11°27'27"	0°55'55"	13°49'49"	6°40'40"	25°R26	26°31'31"	20°37'37"	2°48'48"	S 5
M 6	13 0 14	16°58'05"	24°30'30"	3°21'21"	19°9'9"	3°15'15"	20°50'50"	11°34'34"	0°58'58"	13°50'50"	6°41'41"	25°25'25"	26°27'27"	20°44'44"	2°51'51"	M 6
T 7	13 4 11	17°56'54"	7°47'47"	2°55'55"	20°21'21"	4°2'2"	20°56'56"	11°41'41"	1°1'1"	13°51'51"	6°41'41"	25°24'24"	26°24'24"	20°50'50"	2°55'55"	T 7
W 8	13 8 8	18°55'41"	20°49'49"	2°34'34"	21°33'33"	4°48'48"	21°2'2"	11°49'49"	1°5'5"	13°53'53"	6°41'41"	25°20'20"	26°21'21"	20°57'57"	2°58'58"	W 8
T 9	13 12 4	19°54'27"	3°36'36"	2°17'17"	22°45'45"	5°34'34"	21°7'7"	11°56'56"	1°8'8"	13°54'54"	6°42'42"	25°13'13"	26°18'18"	21°4'4"	3°2'2"	T 9
F 10	13 16 1	20°53'11"	16°11'11"	2°7'7"	23°57'57"	6°21'21"	21°13'13"	12°3'3"	1°11'11"	13°55'55"	6°42'42"	25°4'4"	26°15'15"	21°10'10"	3°5'5"	F 10
S 11	13 19 57	21°51'53"	28°36'36"	2°1'1"	25°8'8"	7°7'7"	21°18'18"	12°11'11"	1°14'14"	13°56'56"	6°43'43"	24°53'53"	26°12'12"	21°17'17"	3°9'9"	S 11
S 12	13 23 54	22°50'33"	10°15'51"	2°D 1	26°20'20"	7°53'53"	21°23'23"	12°18'18"	1°18'18"	13°57'57"	6°43'43"	24°41'41"	26°8'8"	21°24'24"	3°12'12"	S 12
M 13	13 27 50	23°49'11"	22°58'58"	2°5'5"	27°32'32"	8°39'39"	21°28'28"	12°26'26"	1°21'21"	13°58'58"	6°44'44"	24°30'30"	26°5'5"	21°30'30"	3°16'16"	M 13
T 14	13 31 47	24°47'48"	4°57'57"	2°15'15"	28°43'43"	9°26'26"	21°33'33"	12°33'33"	1°24'24"	13°59'59"	6°45'45"	24°19'19"	26°2'2"	21°37'37"	3°19'19"	T 14
W 15	13 35 43	25°46'22"	16°49'49"	2°30'30"	29°55'55"	10°12'12"	21°37'37"	12°41'41"	1°27'27"	14°0'0"	6°45'45"	24°11'11"	25°59'59"	21°44'44"	3°23'23"	W 15
T 16	13 39 40	26°44'55"	28°38'38"	2°49'49"	1°11'11"	10°58'58"	21°41'41"	12°48'48"	1°31'31"	14°1'1"	6°46'46"	24°5'5"	25°56'56"	21°50'50"	3°26'26"	T 16
F 17	13 43 37	27°43'25"	10°11'25"	3°13'13"	2°18'18"	11°44'44"	21°46'46"	12°56'56"	1°34'34"	14°2'2"	6°46'46"	24°2'2"	25°52'52"	21°57'57"	3°30'30"	F 17
S 18	13 47 33	28°41'53"	22°14'14"	3°41'41"	3°29'29"	12°30'30"	21°50'50"	13°4'4"	1°37'37"	14°3'3"	6°47'47"	24°D 1	25°49'49"	22°4'4"	3°33'33"	S 18
S 19	13 51 30	29°40'20"	4°39'9"	4°14'14"	4°40'40"	13°17'17"	21°54'54"	13°11'11"	1°40'40"	14°4'4"	6°48'48"	24°1'1"	25°46'46"	22°10'10"	3°37'37"	S 19
M 20	13 55 26	0°38'44"	16°14'14"	4°50'50"	5°52'52"	14°3'3"	21°57'57"	13°19'19"	1°43'43"	14°5'5"	6°48'48"	24°2'2"	25°43'43"	22°17'17"	3°40'40"	M 20
T 21	13 59 23	1°37'06"	28°35'35"	5°30'30"	7°3'3"	14°49'49"	22°1'1"	13°26'26"	1°46'46"	14°6'6"	6°49'49"	24°R 3	25°40'40"	22°24'24"	3°43'43"	T 21
W 22	14 3 19	2°35'26"	11°12'12"	6°14'14"	8°14'14"	15°35'35"	22°4'4"	13°34'34"	1°49'49"	14°7'7"	6°50'50"	24°3'3"	25°37'37"	22°30'30"	3°47'47"	W 22
T 23	14 7 16	3°33'44"	24°24'24"	7°2'2"	9°25'25"	16°21'21"	22°7'7"	13°42'42"	1°52'52"	14°7'7"	6°51'51"	24°1'1"	25°33'33"	22°37'37"	3°50'50"	T 23
F 24	14 11 12	4°31'59"	7°17'59"	7°53'53"	10°35'35"	17°7'7"	22°10'10"	13°49'49"	1°55'55"	14°8'8"	6°51'51"	23°57'57"	25°30'30"	22°44'44"	3°53'53"	F 24
S 25	14 15 9	5°30'13"	22°3'3"	8°47'47"	11°46'46"	17°53'53"	22°13'13"	13°57'57"	1°58'58"	14°9'9"	6°52'52"	23°51'51"	25°27'27"	22°50'50"	3°56'56"	S 25
S 26	14 19 6	6°28'24"	6°43'36"	9°44'44"	12°57'57"	18°39'39"	22°16'16"	14°5'5"	2°1'1"	14°10'10"	6°53'53"	23°44'44"	25°24'24"	22°57'57"	4°0'0"	S 26
M 27	14 23 2	7°26'34"	21°30'30"	10°44'44"	14°7'7"	19°25'25"	22°18'18"	14°13'13"	2°4'4"	14°10'10"	6°54'54"	23°37'37"	25°21'21"	23°4'4"	4°3'3"	M 27
T 28	14 26 59	8°24'42"	6°14'40"	11°47'47"	15°18'18"	20°11'11"	22°20'20"	14°20'20"	2°7'7"	14°11'11"	6°55'55"	23°31'31"	25°17'17"	23°10'10"	4°6'6"	T 28
W 29	14 30 55	9°22'48"	21°53'53"	12°53'53"	16°28'28"	20°57'57"	22°23'23"	14°28'28"	2°10'10"	14°11'11"	6°56'56"	23°26'26"	25°14'14"	23°17'17"	4°9'9"	W 29
T 30	14 34 52	10°18'20"	7°1'1"	14°19'21"	17°11'38"	21°14'43"	22°32'34"	14°36'36"	2°13'13"	14°11'11"	6°57'57"	23°12'12"	25°11'11"	23°8'24"	4°12'12"	T 30

ASTRODIENST EPHEMERIS for the year 1676

geocentric

MAY 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 38 48	11♈18'56	21♊55	15♊13	18♊48	22♊29	22♊26	14♈44	2♊16	14♈12	6♈58	23♊D22	25♊8	23♊30	4♊15	F 1
S 2	14 42 45	12°16'58	6♈28	16°26	19°59	23°15	22°28	14°51	2°19	14°13	6°59	23♊22	25°5	23°37	4°18	S 2
S 3	14 46 41	13°14'58	20°36	17°42	21°8	24°1	22°29	14°59	2°21	14°13	6°59	23°24	25°2	23°44	4°21	S 3
M 4	14 50 38	14°12'57	4♈19	19°1	22°18	24°47	22°30	15°7	2°24	14°14	7°0	23°25	24°58	23°50	4°24	M 4
T 5	14 54 35	15°10'55	17°39	20°22	23°28	25°32	22°31	15°15	2°27	14°14	7°1	23°R25	24°55	23°57	4°27	T 5
W 6	14 58 31	16°8'51	0♈37	21°45	24°38	26°18	22°32	15°22	2°30	14°14	7°2	23°24	24°52	24°4	4°30	W 6
T 7	15 2 28	17°6'46	13°18	23°10	25°47	27°4	22°32	15°30	2°32	14°15	7°3	23°21	24°49	24°10	4°33	T 7
F 8	15 6 24	18°4'40	25°43	24°38	26°57	27°50	22°33	15°38	2°35	14°15	7°5	23°17	24°46	24°17	4°36	F 8
S 9	15 10 21	19°2'32	7♊56	26°8	28°6	28°35	22°33	15°46	2°38	14°15	7°6	23°12	24°43	24°24	4°39	S 9
S 10	15 14 17	20°0'23	20°0	27°40	29°15	29°21	22°R33	15°53	2°40	14°16	7°7	23°6	24°39	24°30	4°42	S 10
M 11	15 18 14	20°58'13	1♈57	29°14	0♈24	0♊6	22°33	16°1	2°43	14°16	7°8	23°0	24°36	24°37	4°45	M 11
T 12	15 22 10	21°56'01	13°48	0♈50	1°33	0°52	22°32	16°9	2°45	14°16	7°9	22°55	24°33	24°44	4°47	T 12
W 13	15 26 7	22°53'48	25°37	2°29	2°42	1°38	22°32	16°17	2°48	14°16	7°10	22°51	24°30	24°50	4°50	W 13
T 14	15 30 4	23°51'34	7♊25	4°9	3°51	2°23	22°31	16°24	2°50	14°16	7°11	22°49	24°27	24°57	4°53	T 14
F 15	15 34 0	24°49'18	19°14	5°52	5°0	3°9	22°30	16°32	2°53	14°16	7°12	22°D47	24°23	25°4	4°55	F 15
S 16	15 37 57	25°47'01	1♈7	7°37	6°8	3°54	22°29	16°40	2°55	14°R16	7°14	22°48	24°20	25°10	4°58	S 16
S 17	15 41 53	26°44'43	13°6	9°24	7°17	4°39	22°28	16°47	2°57	14°16	7°15	22°49	24°17	25°17	5°0	S 17
M 18	15 45 50	27°42'23	25°16	11°13	8°25	5°25	22°26	16°55	3°0	14°16	7°16	22°50	24°14	25°24	5°3	M 18
T 19	15 49 46	28°40'01	7♊40	13°5	9°33	6°10	22°24	17°3	3°2	14°16	7°17	22°52	24°11	25°30	5°5	T 19
W 20	15 53 43	29°37'38	20°22	14°58	10°41	6°55	22°23	17°10	3°4	14°16	7°18	22°53	24°8	25°37	5°8	W 20
T 21	15 57 39	0♈35'13	3♊25	16°54	11°49	7°40	22°21	17°18	3°6	14°16	7°20	22°R53	24°4	25°44	5°10	T 21
F 22	16 1 36	1°32'47	16°54	18°51	12°57	8°26	22°18	17°26	3°9	14°16	7°21	22°53	24°1	25°50	5°13	F 22
S 23	16 5 33	2°30'20	0♈49	20°51	14°4	9°11	22°16	17°33	3°11	14°15	7°22	22°51	23°58	25°57	5°15	S 23
S 24	16 9 29	3°27'51	15°11	22°53	15°12	9°56	22°13	17°41	3°13	14°15	7°23	22°49	23°55	26°4	5°17	S 24
M 25	16 13 26	4°25'20	29°56	24°56	16°19	10°41	22°10	17°48	3°15	14°15	7°25	22°47	23°52	26°10	5°20	M 25
T 26	16 17 22	5°22'49	14♈59	27°1	17°26	11°26	22°7	17°56	3°17	14°14	7°26	22°44	23°49	26°17	5°22	T 26
W 27	16 21 19	6°20'16	0♈10	29°8	18°33	12°11	22°4	18°3	3°19	14°14	7°27	22°43	23°45	26°24	5°24	W 27
T 28	16 25 15	7°17'43	15°21	1♈16	19°39	12°56	22°1	18°11	3°21	14°14	7°29	22°D42	23°42	26°30	5°26	T 28
F 29	16 29 12	8°15'08	0♈23	3°25	20°46	13°40	21°57	18°18	3°23	14°13	7°30	22°42	23°39	26°37	5°28	F 29
S 30	16 33 8	9°12'33	15°6	5°36	21°52	14°25	21°54	18°26	3°24	14°13	7°31	22°43	23°36	26°44	5°30	S 30
S 31	16 37 5	10♈9'57	29♈26	7♊47	22♈59	15♊10	21♈50	18♈33	3♊26	14♈13	7♈33	22♈44	23♈33	26♈50	5♊32	S 31

Delta T = 25.81 sec

Greg. Calendar

JUNE 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 41 2	11♈7'20	13♈20	9♈59	24♈5	15♊54	21°R46	18♈41	3♊28	14°R12	7♈34	22♈45	23♈29	26♈57	5♊34	M 1
T 2	16 44 58	12°4'42	26°47	12°11	25°11	16°39	21♈42	18°48	3°30	14♈12	7°36	22°45	23°26	27°4	5°36	T 2
W 3	16 48 55	13°2'04	9♈50	14°23	26°16	17°24	21°37	18°55	3°31	14°11	7°37	22°R46	23°23	27°10	5°38	W 3
T 4	16 52 51	13°59'25	22°30	16°35	27°22	18°8	21°33	19°3	3°33	14°10	7°38	22°46	23°20	27°17	5°40	T 4
F 5	16 56 48	14°56'46	4♊53	18°46	28°27	18°53	21°28	19°10	3°35	14°10	7°40	22°45	23°17	27°24	5°41	F 5
S 6	17 0 44	15°54'07	17°1	20°56	29°32	19°37	21°23	19°17	3°36	14°9	7°41	22°44	23°14	27°30	5°43	S 6
S 7	17 4 41	16°51'26	28°59	23°6	0♈37	20°21	21°18	19°24	3°38	14°8	7°43	22°44	23°10	27°37	5°45	S 7
M 8	17 8 37	17°48'46	10♈50	25°14	1°41	21°6	21°13	19°31	3°39	14°8	7°44	22°43	23°7	27°44	5°46	M 8
T 9	17 12 34	18°46'05	22°39	27°21	2°46	21°50	21°8	19°39	3°41	14°7	7°45	22°42	23°4	27°50	5°48	T 9
W 10	17 16 31	19°43'23	4♈26	29°26	3°50	22°34	21°3	19°46	3°42	14°6	7°47	22°42	23°1	27°57	5°49	W 10
T 11	17 20 27	20°40'41	16°17	1♈29	4°54	23°18	20°57	19°53	3°43	14°6	7°48	22°42	22°58	28°4	5°51	T 11
F 12	17 24 24	21°37'59	28°11	3°30	5°58	24°2	20°51	20°0	3°45	14°5	7°50	22°D42	22°55	28°10	5°52	F 12
S 13	17 28 20	22°35'16	10♈12	5°30	7°1	24°46	20°45	20°7	3°46	14°4	7°51	22°R42	22°51	28°17	5°54	S 13
S 14	17 32 17	23°32'32	22°22	7°27	8°5	25°30	20°40	20°14	3°47	14°3	7°53	22°42	22°48	28°24	5°55	S 14
M 15	17 36 13	24°29'48	4♈43	9°22	9°8	26°14	20°33	20°21	3°48	14°2	7°54	22°42	22°45	28°30	5°56	M 15
T 16	17 40 10	25°27'03	17°17	11°16	10°10	26°58	20°27	20°28	3°49	14°1	7°56	22°42	22°42	28°37	5°58	T 16
W 17	17 44 6	26°24'17	0♈6	13°7	11°13	27°41	20°21	20°34	3°50	14°0	7°57	22°41	22°39	28°44	5°59	W 17
T 18	17 48 3	27°21'31	13°13	14°55	12°15	28°25	20°14	20°41	3°51	13°59	7°59	22°41	22°35	28°50	6°0	T 18
F 19	17 52 0	28°18'44	26°40	16°42	13°17	29°8	20°8	20°48	3°52	13°58	8°0	22°D41	22°32	28°57	6°1	F 19
S 20	17 55 56	29°15'56	10♈28	18°26	14°18	29°52	20°1	20°55	3°53	13°57	8°2	22°41	22°29	29°4	6°2	S 20
S 21	17 59 53	0♈13'08	24°36	20°8	15°20	0♈35	19°54	21°1	3°54	13°56	8°3	22°41	22°26	29°10	6°3	S 21
M 22	18 3 49	1°10'19	9♈15	21°48	16°21	1°19	19°48	21°8	3°55	13°55	8°5	22°42	22°23	29°17	6°4	M 22
T 23	18 7 46	2°7'30	23°49	23°25	17°21	2°2	19°41	21°14	3°56	13°54	8°6	22°43	22°20	29°24	6°5	T 23
W 24	18 11 42	3°4'41	8♈44	25°0	18°21	2°45	19°34	21°21	3°56	13°53	8°8	22°43	22°16	29°30	6°5	W 24
T 25	18 15 39	4°1'51	23°43	26°33	19°21	3°28	19°26	21°27	3°57	13°52	8°9	22°R43	22°13	29°37	6°6	T 25
F 26	18 19 36	4°59'02	8♈38	28°3	20°21	4°11	19°19	21°34	3°58	13°51	8°11	22°43	22°10	29°44	6°7	F 26
S 27	18 23 32	5°56'12	23°19	29°32	21°20	4°54	19°12	21°40	3°58	13°49	8°12	22°42	22°7	29°50	6°8	S 27
S 28	18 27 29	6°53'22	7♈42	0♈58	22°19	5°37	19°5	21°46	3°59	13°48	8°14	22°41	22°4	29°57	6°8	S 28
M 29	18 31 25	7°50'32	21°42	2°21	23°17	6°20	18°57	21°52	3°59	13°47	8°15	22°39	22°1	0♈3	6°9	M 29
T 30	18 35 22	8°47'42	5♈15	3♈42	24♈15	7♈2	18♈50	21♈59	4♊0	13°46	8°17	22♈37	21♈57	0♈10	6♊9	T 30

Delta T = 25.76 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1676

geocentric

JULY 1676 GC

00:00 UT

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

Delta T = 25.71 sec

Greg. Calendar

AUGUST 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	Day
S 1	20 41 32	9♌21'03	3♈48	16♍R46	19♎41	28♏58	14♐R53	24♑39	3♒R48	12♓R58	9♋ 4	21♈R35	20♉16	3♊43	5♋R57	S 1
S 2	20 45 28	10♍18'33	15♌45	16♌ 1	20♍13	29♎37	14♏47	24♐43	3♑47	12♒57	9♓ 5	21♐D34	20♑12	3♒50	5♓55	S 2
M 3	20 49 25	11♍16'04	27♎35	15♍15	20♌44	0♊17	14♌41	24♐47	3♑46	12♓55	9♓ 6	21♑35	20♒ 9	3♒56	5♓54	M 3
T 4	20 53 21	12♍13'36	9♊23	14♑27	21♍13	0♓56	14♌35	24♓50	3♑45	12♓53	9♓ 8	21♑37	20♒ 6	4♒ 3	5♓53	T 4
W 5	20 57 18	13♍11'10	21♍15	13♓38	21♌41	1♒35	14♑29	24♓54	3♑44	12♓52	9♓ 9	21♒R37	20♒ 3	4♑10	5♓51	W 5
T 6	21 1 14	14♌8'45	3♓15	12♓50	22♒ 7	2♒13	14♑23	24♓57	3♑42	12♓50	9♓10	21♑37	20♒ 0	4♑16	5♓50	T 6
F 7	21 5 11	15♌6'21	15♑27	12♒ 4	22♑32	2♓52	14♑17	25♒ 0	3♑41	12♓48	9♓12	21♑34	19♓57	4♑23	5♓48	F 7
S 8	21 9 7	16♒3'59	27♓53	11♑20	22♓55	3♒31	14♑12	25♒ 3	3♑40	12♓47	9♓13	21♑29	19♓53	4♑30	5♓47	S 8
S 9	21 13 4	17♒1'38	10♌235	10♑39	23♒16	4♒ 9	14♒ 6	25♒ 6	3♑38	12♓45	9♓14	21♑22	19♓50	4♑36	5♓45	S 9
M10	21 17 1	17♓59'18	23♑33	10♒ 3	23♑36	4♑47	14♒ 1	25♒ 9	3♑37	12♓43	9♓15	21♒13	19♑47	4♑43	5♓44	M10
T 11	21 20 57	18♓56'59	6♎48	9♒31	23♓54	5♑25	13♓56	25♒12	3♑35	12♓42	9♓17	21♒ 3	19♑44	4♑50	5♑42	T 11
W12	21 24 54	19♓54'42	20♒16	9♓ 5	24♒ 9	6♒ 3	13♓51	25♒15	3♑34	12♓40	9♓18	20♓53	19♑41	4♑56	5♑40	W12
T 13	21 28 50	20♓52'26	3♏57	8♑46	24♒23	6♑41	13♓46	25♒18	3♑32	12♓39	9♓19	20♓45	19♑38	5♒ 3	5♑39	T 13
F 14	21 32 47	21♓50'11	17♑47	8♑33	24♒35	7♒19	13♑41	25♒20	3♑31	12♓37	9♓20	20♒38	19♑34	5♑10	5♑37	F 14
S 15	21 36 43	22♑47'57	1♎44	8♒D27	24♓45	7♓56	13♑37	25♒23	3♑29	12♓35	9♓21	20♒34	19♑31	5♑16	5♑35	S 15
S 16	21 40 40	23♓45'44	15♑46	8♑29	24♓52	8♑34	13♑33	25♒25	3♑27	12♓34	9♓23	20♒32	19♑28	5♑23	5♑33	S 16
M17	21 44 36	24♓43'33	29♓53	8♑38	24♓58	9♓11	13♑29	25♒27	3♑26	12♓32	9♓24	20♒D32	19♑25	5♑29	5♑31	M17
T 18	21 48 33	25♓41'22	14♑ 3	8♓55	25♒ 1	9♑48	13♑25	25♒29	3♑24	12♓31	9♓25	20♒R33	19♑22	5♑36	5♑29	T 18
W19	21 52 30	26♒39'13	28♒15	9♑20	25♒R 1	10♑25	13♑21	25♒31	3♑22	12♓29	9♓26	20♒33	19♑18	5♑43	5♑27	W19
T 20	21 56 26	27♒37'05	12♏26	9♓53	25♒ 0	11♒ 1	13♑17	25♒33	3♑20	12♓27	9♓27	20♒31	19♑15	5♑49	5♑25	T 20
F 21	22 0 23	28♒34'59	26♒35	10♑33	24♓56	11♑38	13♑14	25♒35	3♑19	12♓26	9♓28	20♒27	19♑12	5♑56	5♑23	F 21
S 22	22 4 19	29♒32'53	10♒38	11♑21	24♓50	12♑14	13♑10	25♒37	3♑17	12♓24	9♓29	20♒20	19♒ 9	6♒ 3	5♑21	S 22
S 23	22 8 16	0♎30'49	24♒31	12♑16	24♑41	12♓50	13♒ 7	25♒39	3♑15	12♓23	9♓30	20♑10	19♒ 6	6♒ 9	5♑19	S 23
M24	22 12 12	1♑28'47	8♑ 9	13♑18	24♒30	13♑26	13♒ 4	25♒40	3♑13	12♓21	9♓31	19♓59	19♒ 3	6♑16	5♑17	M24
T 25	22 16 9	2♑26'46	21♒30	14♑27	24♑17	14♒ 2	13♒ 2	25♒42	3♑11	12♓20	9♓32	19♓48	18♓59	6♑23	5♑14	T 25
W26	22 20 5	3♑24'47	4♑31	15♑42	24♒ 1	14♑38	12♓59	25♒43	3♒ 9	12♓18	9♓33	19♑37	18♓56	6♑29	5♑12	W26
T 27	22 24 2	4♑22'50	17♑12	17♒ 3	23♑43	15♑14	12♓57	25♒44	3♒ 7	12♓17	9♓34	19♑27	18♓53	6♑36	5♑10	T 27
F 28	22 27 59	5♑20'54	29♒35	18♑29	23♑22	15♑49	12♓54	25♒45	3♒ 5	12♓15	9♓35	19♑20	18♓50	6♑43	5♒ 8	F 28
S 29	22 31 55	6♑19'01	11♏43	20♒ 0	23♒ 0	16♑24	12♓52	25♒46	3♒ 3	12♓14	9♓36	19♑15	18♑47	6♑49	5♒ 5	S 29
S 30	22 35 52	7♑17'10	23♒39	21♒36	22♒35	16♓59	12♓51	25♒47	3♒ 1	12♓12	9♓37	19♑13	18♑44	6♑56	5♒ 3	S 30
M31	22 39 48	8♎15'20	5♊29	23♌15	22♎ 8	17♊34	12♏49	25♏48	2♑59	12♒11	9♋38	19♑D12	18♑40	7♊ 3	5♑1 1	M31

ASTRODIENST EPHEMERIS for the year 1676

geocentric

SEPTEMBER 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 43 45	9 ^h 13'33"	17 ^h 11'18"	24 ^h 05'58"	21 ^h R40	18 ^h II 8	12 ^h R48	25 ^h 8'49"	2 ^h R57	12 ^h R10	9 ^h 53'39"	19 ^h R12	18 ^h 7'37"	7 ^h II 9	4 ^h R58	T 1
W 2	22 47 41	10 ^h 11'47"	29 ^h 10'	26 ^h 44'	21 ^h 10	18 ^h 43	12 ^h 34'46"	25 ^h 49'	2 ^h Y54	12 ^h 8	9 ^h 40	19 ^h 12	18 ^h 34'	7 ^h 16	4 ^h Y56	W 2
T 3	22 51 38	11 ^h 10'04"	11 ^h 51'3"	28 ^h 31'	20 ^h 38	19 ^h 17	12 ^h 45'	25 ^h 50'	2 ^h 52	12 ^h 7	9 ^h 40	19 ^h 10	18 ^h 31'	7 ^h 22	4 ^h 53	T 3
F 4	22 55 34	12 ^h 8'23"	23 ^h 30'	0 ^h 21'	20 ^h 5	19 ^h 51	12 ^h 44'	25 ^h 50'	2 ^h 50	12 ^h 5	9 ^h 41	19 ^h 6	18 ^h 28'	7 ^h 29	4 ^h 51	F 4
S 5	22 59 31	13 ^h 6'44"	6 ^h 9'5"	2 ^h 12'	19 ^h 31	20 ^h 25	12 ^h 44'	25 ^h 50'	2 ^h 48	12 ^h 4	9 ^h 42	19 ^h 0	18 ^h 24'	7 ^h 36	4 ^h 48	S 5
S 6	23 3 28	14 ^h 5'06"	19 ^h 0'	4 ^h 5'	18 ^h 55	20 ^h 58	12 ^h 43'	25 ^h 51'	2 ^h 46	12 ^h 3	9 ^h 43	18 ^h 51	18 ^h 21'	7 ^h 42	4 ^h 46	S 6
M 7	23 7 24	15 ^h 3'31"	2 ^h 17'	5 ^h 58'	18 ^h 19	21 ^h 32	12 ^h 43'	25 ^h R51	2 ^h 43	12 ^h 1	9 ^h 44	18 ^h 39	18 ^h 18'	7 ^h 49	4 ^h 43	M 7
T 8	23 11 21	16 ^h 1'57"	15 ^h 54'	7 ^h 51'	17 ^h 43	22 ^h 5	12 ^h D43	25 ^h 51'	2 ^h 41	12 ^h 0	9 ^h 44	18 ^h 27	18 ^h 15'	7 ^h 56	4 ^h 40	T 8
W 9	23 15 17	17 ^h 0'26"	29 ^h 48'	9 ^h 45'	17 ^h 6	22 ^h 38	12 ^h 43'	25 ^h 50'	2 ^h 39	11 ^h 59	9 ^h 45	18 ^h 15	18 ^h 12'	8 ^h 2	4 ^h 38	W 9
T 10	23 19 14	17 ^h 58'56"	13 ^h 54'	11 ^h 39'	16 ^h 29	23 ^h 10	12 ^h 43'	25 ^h 50'	2 ^h 36	11 ^h 58	9 ^h 46	18 ^h 4	18 ^h 9'	8 ^h 9	4 ^h 35	T 10
F 11	23 23 10	18 ^h 57'28"	28 ^h 9'	13 ^h 32'	15 ^h 52	23 ^h 43	12 ^h 44'	25 ^h 50'	2 ^h 34	11 ^h 56	9 ^h 46	17 ^h 55	18 ^h 5'	8 ^h 16	4 ^h 32	F 11
S 12	23 27 7	19 ^h 56'02"	12 ^h 11'26"	15 ^h 25'	15 ^h 16	24 ^h 15	12 ^h 45'	25 ^h 49'	2 ^h 32	11 ^h 55	9 ^h 47	17 ^h 50	18 ^h 2'	8 ^h 22	4 ^h 30	S 12
S 13	23 31 3	20 ^h 54'37"	26 ^h 41'	17 ^h 18'	14 ^h 40	24 ^h 47	12 ^h 45'	25 ^h 49'	2 ^h 29	11 ^h 54	9 ^h 48	17 ^h 47	17 ^h 59'	8 ^h 29	4 ^h 27	S 13
M14	23 35 0	21 ^h 53'15"	10 ^h 15'53"	19 ^h 10'	14 ^h 5	25 ^h 19	12 ^h 47'	25 ^h 48'	2 ^h 27	11 ^h 53	9 ^h 48	17 ^h 46	17 ^h 56'	8 ^h 36	4 ^h 24	M14
T 15	23 38 56	22 ^h 51'53"	25 ^h 0'	21 ^h 1'	13 ^h 31	25 ^h 50	12 ^h 48'	25 ^h 47'	2 ^h 25	11 ^h 52	9 ^h 49	17 ^h 46	17 ^h 53'	8 ^h 42	4 ^h 22	T 15
W16	23 42 53	23 ^h 50'34"	9 ^h 30'	22 ^h 52'	12 ^h 59	26 ^h 21	12 ^h 49'	25 ^h 46'	2 ^h 22	11 ^h 51	9 ^h 49	17 ^h 45	17 ^h 50'	8 ^h 49	4 ^h 19	W16
T 17	23 46 50	24 ^h 49'16"	22 ^h 53'	24 ^h 41'	12 ^h 28	26 ^h 52	12 ^h 51'	25 ^h 45'	2 ^h 20	11 ^h 49	9 ^h 50	17 ^h 43	17 ^h 46'	8 ^h 56	4 ^h 16	T 17
F 18	23 50 46	25 ^h 48'00"	6 ^h 44'	26 ^h 30'	11 ^h 58	27 ^h 23	12 ^h 53'	25 ^h 44'	2 ^h 17	11 ^h 48	9 ^h 51	17 ^h 38	17 ^h 43'	9 ^h 2	4 ^h 13	F 18
S 19	23 54 43	26 ^h 46'46"	20 ^h 17'	28 ^h 18'	11 ^h 31	27 ^h 53	12 ^h 55'	25 ^h 43'	2 ^h 15	11 ^h 47	9 ^h 51	17 ^h 31	17 ^h 40'	9 ^h 9	4 ^h 11	S 19
S 20	23 58 39	27 ^h 45'33"	3 ^h 45'	0 ^h 5	11 ^h 5	28 ^h 23	12 ^h 57'	25 ^h 41'	2 ^h 13	11 ^h 46	9 ^h 52	17 ^h 20	17 ^h 37'	9 ^h 15	4 ^h 8	S 20
M21	0 2 36	28 ^h 44'22"	17 ^h 1'	1 ^h 51'	10 ^h 42	28 ^h 53	12 ^h 59'	25 ^h 40'	2 ^h 10	11 ^h 45	9 ^h 52	17 ^h 8	17 ^h 34'	9 ^h 22	4 ^h 5	M21
T 22	0 6 32	29 ^h 43'13"	0 ^h Y 3	3 ^h 36'	10 ^h 20	29 ^h 23	13 ^h 2'	25 ^h 38'	2 ^h 8	11 ^h 44	9 ^h 52	16 ^h 56	17 ^h 30'	9 ^h 29	4 ^h 2	T 22
W23	0 10 29	0 ^h 42'06"	12 ^h 49'	5 ^h 20'	10 ^h 1	29 ^h 52	13 ^h 5'	25 ^h 36'	2 ^h 5	11 ^h 43	9 ^h 53	16 ^h 43	17 ^h 27'	9 ^h 35	3 ^h 59	W23
T 24	0 14 25	1 ^h 41'02"	25 ^h 21'	7 ^h 3'	9 ^h 44	0 ^h 21	13 ^h 8'	25 ^h 35'	2 ^h 3	11 ^h 43	9 ^h 53	16 ^h 33	17 ^h 24'	9 ^h 42	3 ^h 57	T 24
F 25	0 18 22	2 ^h 39'59"	7 ^h 37'	8 ^h 45'	9 ^h 30	0 ^h 50	13 ^h 11'	25 ^h 33'	2 ^h 1	11 ^h 42	9 ^h 54	16 ^h 24	17 ^h 21'	9 ^h 49	3 ^h 54	F 25
S 26	0 22 19	3 ^h 38'59"	19 ^h 41'	10 ^h 27'	9 ^h 18	1 ^h 18	13 ^h 14'	25 ^h 31'	1 ^h 58	11 ^h 41	9 ^h 54	16 ^h 19	17 ^h 18'	9 ^h 55	3 ^h 51	S 26
S 27	0 26 15	4 ^h 38'01"	1 ^h II 35	12 ^h 8'	9 ^h 9	1 ^h 46	13 ^h 18'	25 ^h 29'	1 ^h 56	11 ^h 40	9 ^h 54	16 ^h 16	17 ^h 15'	10 ^h 2	3 ^h 48	S 27
M28	0 30 12	5 ^h 37'05"	13 ^h 23'	13 ^h 47'	9 ^h 2	2 ^h 14	13 ^h 22'	25 ^h 27'	1 ^h 53	11 ^h 39	9 ^h 54	16 ^h D14	17 ^h 11'	10 ^h 9	3 ^h 45	M28
T 29	0 34 8	6 ^h 36'12"	25 ^h 10'	15 ^h 26'	8 ^h 57	2 ^h 42	13 ^h 25'	25 ^h 24'	1 ^h 51	11 ^h 38	9 ^h 55	16 ^h 15	17 ^h 8'	10 ^h 15	3 ^h 43	T 29
W30	0 38 5	7 ^h 35'21"	7 ^h 2	17 ^h 4	8 ^h D55	3 ^h 29	13 ^h 29'	25 ^h 22'	1 ^h Y 49	11 ^h 38	9 ^h 55	16 ^h R15	17 ^h 7'	10 ^h II 22	3 ^h Y 40	W30

Delta T = 25.61 sec

Greg. Calendar

OCTOBER 1676 GC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 42 1	8♂34'32	19♂ 4	18♂42	8♂56	3♂35	13♂34	25°R19	1°R46	11°R37	9♂55	16°R14	17♂ 2	10♂29	3°R37	T 1
F 2	0 45 58	9°33'46	1♂21	20°18	8°58	4° 2	13°38	25♂17	1°Y44	11♂36	9°55	16♂12	16°59	10°35	3°Y34	F 2
S 3	0 49 54	10°33'01	13°59	21°54	9° 3	4°28	13°43	25°14	1°41	11°36	9°56	16° 8	16°55	10°42	3°32	S 3
S 4	0 53 51	11°32'19	26°59	23°29	9°11	4°54	13°47	25°11	1°39	11°35	9°56	16° 1	16°52	10°48	3°29	S 4
M 5	0 57 48	12°31'40	10♂26	25° 3	9°20	5°19	13°52	25° 9	1°37	11°34	9°56	15°52	16°49	10°55	3°26	M 5
T 6	1 1 44	13°31'02	24°17	26°37	9°32	5°44	13°58	25° 6	1°34	11°34	9°56	15°41	16°46	11° 2	3°23	T 6
W 7	1 5 41	14°30'27	8♂30	28°10	9°46	6° 9	14° 3	25° 3	1°32	11°33	9°56	15°31	16°43	11° 8	3°20	W 7
T 8	1 9 37	15°29'54	23° 1	29°42	10° 2	6°33	14° 8	24°59	1°30	11°33	9°56	15°22	16°40	11°15	3°18	T 8
F 9	1 13 34	16°29'23	7♂14	1♂13	10°20	6°57	14°14	24°56	1°27	11°32	9°56	15°15	16°36	11°22	3°15	F 9
S 10	1 17 30	17°28'54	22°23	2°44	10°39	7°20	14°20	24°53	1°25	11°32	9°R56	15°10	16°33	11°28	3°12	S 10
S 11	1 21 27	18°28'26	7♂ 1	4°14	11° 1	7°43	14°26	24°50	1°23	11°31	9°56	15° 8	16°30	11°35	3°10	S 11
M12	1 25 23	19°28'01	21°30	5°43	11°24	8° 6	14°32	24°46	1°20	11°31	9°56	15°D 8	16°27	11°42	3° 7	M12
T 13	1 29 20	20°27'37	5♂46	7°12	11°50	8°28	14°38	24°43	1°18	11°31	9°56	15° 9	16°24	11°48	3° 4	T 13
W14	1 33 17	21°27'16	19°47	8°40	12°17	8°49	14°45	24°39	1°16	11°30	9°56	15°R10	16°21	11°55	3° 2	W14
T 15	1 37 13	22°26'55	3♂34	10° 7	12°45	9°10	14°51	24°35	1°14	11°30	9°56	15° 9	16°17	12° 2	2°59	T 15
F 16	1 41 10	23°26'37	17° 6	11°34	13°15	9°31	14°58	24°31	1°12	11°30	9°56	15° 7	16°14	12° 8	2°57	F 16
S 17	1 45 6	24°26'20	0♂25	13° 0	13°47	9°51	15° 5	24°28	1° 9	11°30	9°55	15° 2	16°11	12°15	2°54	S 17
S 18	1 49 3	25°26'05	13°31	14°25	14°20	10°11	15°12	24°24	1° 7	11°29	9°55	14°55	16° 8	12°22	2°51	S 18
M19	1 52 59	26°25'51	26°24	15°49	14°55	10°31	15°19	24°20	1° 5	11°29	9°55	14°47	16° 5	12°28	2°49	M19
T 20	1 56 56	27°25'40	9°Y 5	17°13	15°30	10°49	15°26	24°16	1° 3	11°29	9°55	14°38	16° 1	12°35	2°46	T 20
W21	2 0 52	28°25'30	21°34	18°35	16° 8	11° 8	15°34	24°12	1° 1	11°29	9°55	14°29	15°58	12°41	2°44	W21
T 22	2 4 49	29°25'22	3♂52	19°57	16°46	11°25	15°42	24° 7	0°59	11°29	9°54	14°22	15°55	12°48	2°42	T 22
F 23	2 8 45	0♂25'17	15°58	21°17	17°26	11°43	15°49	24° 3	0°57	11°D29	9°54	14°16	15°52	12°55	2°39	F 23
S 24	2 12 42	1°25'13	27°56	22°37	18° 7	11°59	15°57	23°59	0°55	11°29	9°54	14°12	15°49	13° 1	2°37	S 24
S 25	2 16 39	2°25'11	9♂46	23°55	18°49	12°16	16° 5	23°54	0°53	11°29	9°53	14°D11	15°46	13° 8	2°34	S 25
M26	2 20 35	3°25'12	21°33	25°12	19°32	12°31	16°14	23°50	0°51	11°29	9°53	14°11	15°42	13°15	2°32	M26
T 27	2 24 32	4°25'15	3♂20	26°28	20°16	12°46	16°22	23°46	0°49	11°29	9°53	14°12	15°39	13°21	2°30	T 27
W28	2 28 28	5°25'19	15°11	27°42	21° 2	13° 1	16°30	23°41	0°47	11°30	9°52	14°14	15°36	13°28	2°28	W28
T 29	2 32 25	6°25'26	27°11	28°55	21°48	13°14	16°39	23°37	0°45	11°30	9°52	14°15	15°33	13°35	2°25	T 29
F 30	2 36 21	7°25'35	0♂26	0♂ 6	22°35	13°28	16°48	23°32	0°44	11°30	9°51	14°R16	15°30	13°41	2°23	F 30
S 31	2 40 18	8♂25'46	22♂ 0	1♂14	23♂23	13♂40	16♂57	23♂27	0°Y42	11♂30	9♂51	14♂15	15♂27	13♂48	2°Y21	S 31

ASTRODIENST EPHEMERIS for the year 1676

geocentric

NOVEMBER 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 44 14	9♉25'59	4♏57	2♊21	24♏12	13♎52	17♎6	23°R23	0°R40	11♎31	9°R50	14°R12	15♎23	13♏55	2°R19	S 1
M 2	2 48 11	10°26'14	18°21	3°25	25° 2	14° 3	17°15	23♎18	0°Y38	11°31	9♎50	14♎8	15°20	14° 1	2°Y17	M 2
T 3	2 52 8	11°26'31	2♏14	4°26	25°53	14°14	17°24	23°13	0°37	11°31	9°49	14° 3	15°17	14° 8	2°15	T 3
W 4	2 56 4	12°26'50	16°33	5°23	26°44	14°24	17°34	23° 9	0°35	11°32	9°49	13°58	15°14	14°14	2°13	W 4
T 5	3 0 1	13°27'11	1♏14	6°18	27°36	14°33	17°43	23° 4	0°33	11°32	9°48	13°54	15°11	14°21	2°11	T 5
F 6	3 3 57	14°27'34	16°11	7° 8	28°29	14°42	17°53	22°59	0°32	11°32	9°47	13°50	15° 7	14°28	2° 9	F 6
S 7	3 7 54	15°27'59	1♎15	7°53	29°23	14°49	18° 3	22°54	0°30	11°33	9°47	13°48	15° 4	14°34	2° 7	S 7
S 8	3 11 50	16°28'25	16°17	8°34	0♏17	14°57	18°13	22°49	0°29	11°34	9°46	13°D48	15° 1	14°41	2° 5	S 8
M 9	3 15 47	17°28'53	1♎8	9° 8	1°12	15° 3	18°23	22°44	0°27	11°34	9°45	13°49	14°58	14°48	2° 4	M 9
T 10	3 19 43	18°29'22	15°43	9°36	2° 7	15° 8	18°33	22°39	0°26	11°35	9°45	13°50	14°55	14°54	2° 2	T 10
W 11	3 23 40	19°29'52	29°57	9°58	3° 3	15°13	18°43	22°35	0°25	11°35	9°44	13°52	14°52	15° 1	2° 0	W 11
T 12	3 27 37	20°30'24	13♎50	10°11	4° 0	15°17	18°53	22°30	0°23	11°36	9°43	13°52	14°48	15° 8	1°59	T 12
F 13	3 31 33	21°30'57	27°21	10°R15	4°57	15°20	19° 4	22°25	0°22	11°37	9°42	13°R53	14°45	15°14	1°57	F 13
S 14	3 35 30	22°31'31	10♎32	10°11	5°55	15°23	19°14	22°20	0°21	11°37	9°42	13°51	14°42	15°21	1°55	S 14
S 15	3 39 26	23°32'06	23°25	9°56	6°53	15°25	19°25	22°15	0°20	11°38	9°41	13°49	14°39	15°28	1°54	S 15
M 16	3 43 23	24°32'43	6°Y 2	9°31	7°52	15°25	19°36	22°10	0°19	11°39	9°40	13°47	14°36	15°34	1°52	M 16
T 17	3 47 19	25°33'21	18°26	8°55	8°51	15°R25	19°47	22° 5	0°18	11°40	9°39	13°44	14°32	15°41	1°51	T 17
W 18	3 51 16	26°34'00	0♎39	8° 9	9°51	15°25	19°58	22° 0	0°16	11°41	9°38	13°41	14°29	15°47	1°50	W 18
T 19	3 55 12	27°34'40	12°43	7°12	10°51	15°23	20° 9	21°05	0°16	11°42	9°38	13°38	14°26	15°54	1°48	T 19
F 20	3 59 9	28°35'22	24°40	6° 7	11°52	15°21	20°20	21°50	0°15	11°43	9°37	13°37	14°23	16° 1	1°47	F 20
S 21	4 3 6	29°36'05	6♏31	4°54	12°53	15°17	20°31	21°46	0°14	11°44	9°36	13°36	14°20	16° 7	1°46	S 21
S 22	4 7 2	0♎36'49	18°19	3°35	13°54	15°13	20°42	21°41	0°13	11°44	9°35	13°D36	14°17	16°14	1°45	S 22
M 23	4 10 59	1°37'35	0♎6	2°13	14°56	15° 8	20°54	21°36	0°12	11°46	9°34	13°36	14°13	16°21	1°44	M 23
T 24	4 14 55	2°38'22	11°55	0°51	15°59	15° 2	21° 5	21°31	0°11	11°47	9°33	13°37	14°10	16°27	1°43	T 24
W 25	4 18 52	3°39'11	23°48	29♏31	17° 1	14°56	21°17	21°26	0°11	11°48	9°32	13°38	14° 7	16°34	1°42	W 25
T 26	4 22 48	4°40'01	5♏50	28°16	18° 4	14°48	21°29	21°22	0°10	11°49	9°31	13°39	14° 4	16°41	1°41	T 26
F 27	4 26 45	5°40'52	18° 4	27° 8	19° 8	14°40	21°41	21°17	0° 9	11°50	9°30	13°40	14° 1	16°47	1°40	F 27
S 28	4 30 41	6°41'45	0♏35	26° 9	20°12	14°30	21°52	21°12	0° 9	11°51	9°29	13°41	13°58	16°54	1°39	S 28
S 29	4 34 38	7°42'39	13°27	25°21	21°16	14°20	22° 4	21° 8	0° 8	11°52	9°28	13°R41	13°54	17° 1	1°38	S 29
M 30	4 38 35	8♎43'35	26♏42	24♏44	22♏20	14♎9	22♎17	21♎3	0°Y 8	11♎54	9♎27	13♎40	13♎51	17♏7	1°Y38	M 30

Delta T = 25.51 sec

Greg. Calendar

DECEMBER 1676 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 42 31	9♎44'31	10♏24	24°R19	23♏25	13°R57	22♎29	20°R59	0°R 7	11♎55	9°R26	13°R40	13♎48	17♏14	1°R37	T 1
W 2	4 46 28	10°45'29	24°34	24♏5	24°30	13♎45	22°41	20♎54	0°Y 7	11°56	9♎25	13♎40	13°45	17°21	1°Y36	W 2
T 3	4 50 24	11°46'29	9♏9	24°D 2	25°35	13°31	22°53	20°50	0° 7	11°57	9°24	13°39	13°42	17°27	1°36	T 3
F 4	4 54 21	12°47'29	24° 5	24° 9	26°41	13°17	23° 6	20°45	0° 6	11°59	9°23	13°39	13°38	17°34	1°35	F 4
S 5	4 58 17	13°48'31	9♎15	24°25	27°47	13° 2	23°18	20°41	0° 6	12° 0	9°22	13°39	13°35	17°40	1°35	S 5
S 6	5 2 14	14°49'33	24°29	24°50	28°53	12°46	23°31	20°37	0° 6	12° 2	9°20	13°39	13°32	17°47	1°35	S 6
M 7	5 6 11	15°50'37	9♎38	25°23	29°59	12°29	23°43	20°33	0° 6	12° 3	9°19	13°39	13°29	17°54	1°34	M 7
T 8	5 10 7	16°51'41	24°32	26° 2	1♏6	12°12	23°56	20°28	0° 6	12° 5	9°18	13°39	13°26	18° 0	1°34	T 8
W 9	5 14 4	17°52'45	9♎5	26°48	2°13	11°54	24° 9	20°24	0°D 6	12° 6	9°17	13°38	13°23	18° 7	1°34	W 9
T 10	5 18 0	18°53'50	23°12	27°40	3°20	11°35	24°21	20°20	0° 6	12° 8	9°16	13°38	13°19	18°14	1°34	T 10
F 11	5 21 57	19°54'55	6♎52	28°36	4°27	11°16	24°34	20°16	0° 6	12° 9	9°15	13°37	13°16	18°20	1°34	F 11
S 12	5 25 53	20°56'01	20° 6	29°36	5°34	10°56	24°47	20°13	0° 6	12°11	9°14	13°D37	13°13	18°27	1°D34	S 12
S 13	5 29 50	21°57'06	2°Y56	0♎40	6°42	10°36	25° 0	20° 9	0° 6	12°12	9°12	13°37	13°10	18°34	1°34	S 13
M 14	5 33 46	22°58'13	15°27	1°47	7°50	10°15	25°13	20° 5	0° 7	12°14	9°11	13°38	13° 7	18°40	1°34	M 14
T 15	5 37 43	23°59'19	27°41	2°57	8°58	9°53	25°26	20° 1	0° 7	12°16	9°10	13°39	13° 4	18°47	1°34	T 15
W 16	5 41 40	25° 0'26	9♎44	4° 9	10° 6	9°31	25°39	19°58	0° 7	12°17	9° 9	13°40	13° 0	18°54	1°34	W 16
T 17	5 45 36	26° 1'33	21°39	5°24	11°15	9° 9	25°53	19°54	0° 8	12°19	9° 8	13°41	12°57	19° 0	1°34	T 17
F 18	5 49 33	27° 2'40	3♏28	6°40	12°23	8°46	26° 6	19°51	0° 8	12°21	9° 6	13°42	12°54	19° 7	1°35	F 18
S 19	5 53 29	28° 3'48	15°16	7°59	13°32	8°23	26°19	19°48	0° 9	12°22	9° 5	13°R42	12°51	19°13	1°35	S 19
S 20	5 57 26	29° 4'56	27° 4	9°18	14°41	8° 0	26°33	19°44	0° 9	12°24	9° 4	13°42	12°48	19°20	1°36	S 20
M 21	6 1 22	0♎6'04	8♎54	10°39	15°50	7°37	26°46	19°41	0°10	12°26	9° 3	13°40	12°44	19°27	1°36	M 21
T 22	6 5 19	1° 7'13	20°49	12° 1	16°59	7°13	26°59	19°38	0°11	12°28	9° 1	13°38	12°41	19°33	1°37	T 22
W 23	6 9 15	2° 8'22	2♏51	13°25	18° 9	6°49	27°13	19°35	0°11	12°30	9° 0	13°35	12°38	19°40	1°37	W 23
T 24	6 13 12	3° 9'31	15° 1	14°49	19°19	6°25	27°26	19°32	0°12	12°31	8°59	13°32	12°35	19°47	1°38	T 24
F 25	6 17 9	4°10'41	27°22	16°14	20°28	6° 1	27°40	19°30	0°13	12°33	8°58	13°29	12°32	19°53	1°39	F 25
S 26	6 21 5	5°11'50	9♏56	17°40	21°38	5°38	27°54	19°27	0°14	12°35	8°56	13°26	12°29	20° 0	1°39	S 26
S 27	6 25 2	6°13'01	22°47	19° 6	22°48	5°14	28° 7	19°24	0°15	12°37	8°55	13°24	12°25	20° 7	1°40	S 27
M 28	6 28 58	7°14'11	5♏56	20°33	23°58	4°50	28°21	19°22	0°16	12°39	8°54	13°D24	12°22	20°13	1°41	M 28
T 29	6 32 55	8°15'22	19°27	22° 1	25° 9	4°26	28°35	19°19	0°17	12°41	8°53	13°24	12°19	20°20	1°42	T 29
W 30	6 36 51	9°16'33	3♏21	23°29	26°19	4° 3	28°49	19°17	0°18	12°43	8°51	13°25	12°16	20°27	1°43	W 30
T 31	6 40 48	10♎17'45	17♏39	24♎58	27♏30	3♎40	29♎2	19♎15	0°Y19	12♎45	8♎50	13♎27	12♎13	20♏33	1°Y44	T 31

Delta T = 25.46 sec

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