

SWISS EPHEMERIS for the year 1719
heliocentric

JANUARY 1719

00:00 UT

Day	Sid.t	Terra	☾	♊	♋	♌	♍	♎	♏	♐	♑	♒
S 1	6 40 6	10 ^h 53'30"	9 ^h 57'	3 ^h 43'	26 ^h 18'	19 ^h 46'	26 ^h 40'	6 ^h 31'	7 ^h 13'	17 ^h 10'	15 ^h 13'	11 ^h 56'
M 2	6 44 2	11° 6'39"	10°59'	7°53'	27°53'	20°14'	26°44'	6°33'	7°14'	17°10'	15°13'	11°56'
T 3	6 47 59	12° 7'48"	12° 2'	12°10'	29°28'	20°42'	26°49'	6°35'	7°15'	17°11'	15°13'	11°57'
W 4	6 51 55	13° 8'57"	13° 4'	16°35'	1 ^h 3' 3"	21°10'	26°54'	6°36'	7°15'	17°11'	15°14'	11°58'
T 5	6 55 52	14°10'05"	14° 7'	21° 8'	2°37'	21°38'	26°58'	6°38'	7°16'	17°11'	15°14'	11°58'
F 6	6 59 48	15°11'13"	15°10'	25°50'	4°12'	22° 6'	27° 3'	6°40'	7°17'	17°12'	15°14'	11°59'
S 7	7 3 45	16°12'21"	16°14'	0 ^h Y41'	5°47'	22°35'	27° 8'	6°42'	7°18'	17°12'	15°15'	12° 0'
S 8	7 7 42	17°13'28"	17°17'	5°40'	7°22'	23° 3'	27°12'	6°44'	7°18'	17°12'	15°15'	12° 0'
M 9	7 11 38	18°14'35"	18°19'	10°49'	8°57'	23°31'	27°17'	6°46'	7°19'	17°13'	15°16'	12° 1'
T 10	7 15 35	19°15'42"	19°22'	16° 7'	10°32'	24° 0'	27°22'	6°48'	7°20'	17°13'	15°16'	12° 2'
W11	7 19 31	20°16'49"	20°24'	21°34'	12° 7'	24°28'	27°26'	6°50'	7°21'	17°13'	15°16'	12° 2'
T 12	7 23 28	21°17'56"	21°26'	27° 9'	13°42'	24°57'	27°31'	6°52'	7°21'	17°14'	15°17'	12° 3'
F 13	7 27 24	22°19'02"	22°28'	2 ^h 8'54'	15°16'	25°25'	27°36'	6°53'	7°22'	17°14'	15°17'	12° 4'
S 14	7 31 21	23°20'08"	23°29'	8°46'	16°51'	25°54'	27°40'	6°55'	7°23'	17°15'	15°17'	12° 4'
S 15	7 35 17	24°21'14"	24°29'	14°45'	18°26'	26°22'	27°45'	6°57'	7°24'	17°15'	15°18'	12° 5'
M16	7 39 14	25°22'20"	25°30'	20°51'	20° 1'	26°51'	27°49'	6°59'	7°25'	17°15'	15°18'	12° 6'
T 17	7 43 11	26°23'25"	26°29'	27° 1'	21°36'	27°19'	27°54'	7° 1'	7°25'	17°16'	15°18'	12° 6'
W18	7 47 7	27°24'30"	27°29'	3 ^h II17'	23°10'	27°48'	27°59'	7° 3'	7°26'	17°16'	15°19'	12° 7'
T 19	7 51 4	28°25'34"	28°28'	9°34'	24°45'	28°17'	28° 3'	7° 5'	7°27'	17°16'	15°19'	12° 7'
F 20	7 55 0	29°26'38"	29°28'	15°53'	26°20'	28°45'	28° 8'	7° 7'	7°28'	17°17'	15°19'	12° 8'
S 21	7 58 57	0 ^h Ω27'40"	0 ^h Ω27'	22°12'	27°55'	29°14'	28°13'	7° 9'	7°28'	17°17'	15°20'	12° 9'
S 22	8 2 53	1°28'42"	1°26'	28°29'	29°30'	29°43'	28°17'	7°10'	7°29'	17°18'	15°20'	12° 9'
M23	8 6 50	2°29'43"	2°25'	4 ^h Ω43'	1 ^h ≈ 5'	0 ^h ML12'	28°22'	7°12'	7°30'	17°18'	15°20'	12°10'
T 24	8 10 46	3°30'43"	3°25'	10°53'	2°39'	0°41'	28°27'	7°14'	7°31'	17°18'	15°21'	12°11'
W25	8 14 43	4°31'42"	4°25'	16°57'	4°14'	1°10'	28°31'	7°16'	7°32'	17°19'	15°21'	12°11'
T 26	8 18 40	5°32'40"	5°24'	22°53'	5°49'	1°39'	28°36'	7°18'	7°32'	17°19'	15°22'	12°12'
F 27	8 22 36	6°33'36"	6°25'	28°42'	7°24'	2° 8'	28°41'	7°20'	7°33'	17°19'	15°22'	12°13'
S 28	8 26 33	7°34'31"	7°25'	4 ^h Ω22'	8°59'	2°37'	28°45'	7°22'	7°34'	17°20'	15°22'	12°13'
S 29	8 30 29	8°35'25"	8°26'	9°54'	10°34'	3° 6'	28°50'	7°24'	7°35'	17°20'	15°23'	12°14'
M30	8 34 26	9°36'17"	9°27'	15°16'	12° 9'	3°35'	28°55'	7°25'	7°35'	17°20'	15°23'	12°15'
T 31	8 38 22	10 ^h Ω37'09"	10 ^h Ω29'	20 ^h Ω28'	13 ^h ≈43'	4 ^h ML 4'	28 ^h Ω59'	7 ^h ML27'	7 ^h Ω36'	17 ^h Ω21'	15 ^h ML23'	12 ^h Ω15'

Delta T = 9.99 sec. Greg. Calendar

FEBRUARY 1719

00:00 UT

Day	Sid.t	Terra	☾	♊	♋	♌	♍	♎	♏	♐	♑	♒
W 1	8 42 19	11 ^h Ω37'58"	11 ^h Ω31'	25 ^h Ω30'	15 ^h ≈18'	4 ^h ML33'	29 ^h Ω 4'	7 ^h ML29'	7 ^h Ω37'	17 ^h Ω21'	15 ^h ML24'	12 ^h Ω16'
T 2	8 46 15	12°38'47"	12°33'	0 ^h ML23'	16°53'	5° 3'	29° 8'	7°31'	7°38'	17°22'	15°24'	12°17'
F 3	8 50 12	13°39'34"	13°36'	5° 7'	18°28'	5°32'	29°13'	7°33'	7°38'	17°22'	15°24'	12°17'
S 4	8 54 9	14°40'19"	14°38'	9°41'	20° 3'	6° 1'	29°18'	7°35'	7°39'	17°22'	15°25'	12°18'
S 5	8 58 5	15°41'04"	15°41'	14° 7'	21°38'	6°31'	29°22'	7°37'	7°40'	17°23'	15°25'	12°19'
M 6	9 2 2	16°41'46"	16°44'	18°24'	23°13'	7° 0'	29°27'	7°39'	7°41'	17°23'	15°25'	12°19'
T 7	9 5 58	17°42'28"	17°47'	22°33'	24°48'	7°30'	29°32'	7°41'	7°42'	17°23'	15°26'	12°20'
W 8	9 9 55	18°43'08"	18°49'	26°35'	26°23'	7°59'	29°36'	7°42'	7°42'	17°24'	15°26'	12°21'
T 9	9 13 51	19°43'48"	19°51'	0 ^h Ω30'	27°58'	8°29'	29°41'	7°44'	7°43'	17°24'	15°27'	12°21'
F 10	9 17 48	20°44'26"	20°52'	4°17'	29°33'	8°59'	29°46'	7°46'	7°44'	17°24'	15°27'	12°22'
S 11	9 21 44	21°45'03"	21°54'	7°59'	1 ^h Ω 8'	9°28'	29°50'	7°48'	7°45'	17°25'	15°27'	12°23'
S 12	9 25 41	22°45'38"	22°54'	11°35'	2°43'	9°58'	29°55'	7°50'	7°45'	17°25'	15°28'	12°23'
M13	9 29 38	23°46'13"	23°55'	15° 5'	4°18'	10°28'	29°59'	7°52'	7°46'	17°26'	15°28'	12°24'
T 14	9 33 34	24°46'46"	24°55'	18°30'	5°53'	10°58'	0 ^h ML 4'	7°54'	7°47'	17°26'	15°28'	12°25'
W15	9 37 31	25°47'19"	25°54'	21°50'	7°29'	11°28'	0° 9'	7°56'	7°48'	17°26'	15°29'	12°25'
T 16	9 41 27	26°47'49"	26°53'	25° 6'	9° 4'	11°57'	0°13'	7°57'	7°49'	17°27'	15°29'	12°26'
F 17	9 45 24	27°48'19"	27°52'	28°18'	10°39'	12°27'	0°18'	7°59'	7°49'	17°27'	15°29'	12°27'
S 18	9 49 20	28°48'46"	28°51'	1 ^h ML26'	12°14'	12°57'	0°23'	8° 1'	7°50'	17°27'	15°30'	12°27'
S 19	9 53 17	29°49'13"	29°50'	4°31'	13°49'	13°27'	0°27'	8° 3'	7°51'	17°28'	15°30'	12°28'
M20	9 57 13	0 ^h ML49'37"	0 ^h ML48'	7°33'	15°25'	13°58'	0°32'	8° 5'	7°52'	17°28'	15°30'	12°29'
T 21	10 1 10	1°50'00"	1°47'	10°32'	17° 0'	14°28'	0°37'	8° 7'	7°52'	17°29'	15°31'	12°29'
W22	10 5 6	2°50'21"	2°46'	13°28'	18°35'	14°58'	0°41'	8° 9'	7°53'	17°29'	15°31'	12°30'
T 23	10 9 3	3°50'40"	3°45'	16°23'	20°10'	15°28'	0°46'	8°11'	7°54'	17°29'	15°32'	12°30'
F 24	10 13 0	4°50'57"	4°44'	19°15'	21°46'	15°59'	0°50'	8°13'	7°55'	17°30'	15°32'	12°31'
S 25	10 16 56	5°51'12"	5°43'	22° 6'	23°21'	16°29'	0°55'	8°14'	7°55'	17°30'	15°32'	12°32'
S 26	10 20 53	6°51'26"	6°43'	24°55'	24°57'	16°59'	1° 0'	8°16'	7°56'	17°30'	15°33'	12°32'
M27	10 24 49	7°51'37"	7°43'	27°43'	26°32'	17°30'	1° 4'	8°18'	7°57'	17°31'	15°33'	12°33'
T 28	10 28 46	8 ^h ML51'46"	8 ^h ML43'	0 ^h Ω29'	28 ^h Ω 7'	18 ^h ML 0'	1 ^h ML 9'	8 ^h ML20'	7 ^h Ω58'	17 ^h Ω31'	15 ^h ML33'	12 ^h Ω34'

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SWISS EPHEMERIS for the year 1719
heliocentric

MAY 1719

00:00 UT

Day	Sid.t	Terra	♃	♀	♁	♂	♂	♃	♁	♂	♁	♂
M 1	14 33 12	9♄56'49	9♄51	0♄32	7♃37	21♁17	5♄55	10♄16	8♁46	17♂54	15♄55	13♁14
T 2	14 37 9	10°54'53	10°51	5°16	9°14	21°51	6° 0	10°18	8°46	17°54	15°56	13°15
W 3	14 41 5	11°52'56	11°51	9°50	10°51	22°25	6° 5	10°20	8°47	17°55	15°56	13°16
T 4	14 45 2	12°50'58	12°51	14°15	12°29	22°59	6° 9	10°22	8°48	17°55	15°57	13°16
F 5	14 48 58	13°48'58	13°51	18°32	14° 6	23°33	6°14	10°24	8°49	17°55	15°57	13°17
S 6	14 52 55	14°46'56	14°51	22°41	15°43	24° 7	6°18	10°26	8°49	17°56	15°57	13°18
S 7	14 56 51	15°44'53	15°50	26°43	17°21	24°42	6°23	10°28	8°50	17°56	15°58	13°18
M 8	15 0 48	16°42'48	16°50	0♄37	18°58	25°16	6°28	10°29	8°51	17°56	15°58	13°19
T 9	15 4 44	17°40'42	17°49	4°25	20°35	25°50	6°32	10°31	8°52	17°57	15°58	13°20
W10	15 8 41	18°38'35	18°47	8° 6	22°13	26°25	6°37	10°33	8°52	17°57	15°59	13°20
T 11	15 12 38	19°36'27	19°45	11°41	23°50	26°59	6°41	10°35	8°53	17°57	15°59	13°21
F 12	15 16 34	20°34'17	20°43	15°11	25°27	27°34	6°46	10°37	8°54	17°58	15°59	13°22
S 13	15 20 31	21°32'06	21°41	18°36	27° 5	28° 8	6°51	10°39	8°55	17°58	16° 0	13°22
S 14	15 24 27	22°29'54	22°38	21°56	28°42	28°43	6°55	10°41	8°56	17°59	16° 0	13°23
M15	15 28 24	23°27'41	23°35	25°12	0♄20	29°18	7° 0	10°43	8°56	17°59	16° 0	13°23
T 16	15 32 20	24°25'26	24°31	28°24	1°57	29°53	7° 4	10°44	8°57	17°59	16° 1	13°24
W17	15 36 17	25°23'11	25°27	1♄32	3°35	0♄27	7° 9	10°46	8°58	18° 0	16° 1	13°25
T 18	15 40 13	26°20'54	26°23	4°37	5°12	1° 2	7°14	10°48	8°59	18° 0	16° 2	13°25
F 19	15 44 10	27°18'36	27°19	7°39	6°50	1°37	7°18	10°50	8°59	18° 0	16° 2	13°26
S 20	15 48 7	28°16'16	28°15	10°38	8°27	2°12	7°23	10°52	9° 0	18° 1	16° 2	13°27
S 21	15 52 3	29°13'56	29°11	13°34	10° 5	2°47	7°27	10°54	9° 1	18° 1	16° 3	13°27
M22	15 56 0	0♄11'34	0♄7	16°28	11°42	3°22	7°32	10°56	9° 2	18° 2	16° 3	13°28
T 23	15 59 56	1° 9'11	1° 3	19°21	13°20	3°58	7°37	10°58	9° 3	18° 2	16° 3	13°29
W24	16 3 53	2° 6'46	2° 0	22°11	14°57	4°33	7°41	10°59	9° 3	18° 2	16° 4	13°29
T 25	16 7 49	3° 4'20	2°56	25° 0	16°35	5° 8	7°46	11° 1	9° 4	18° 3	16° 4	13°30
F 26	16 11 46	4° 1'52	3°54	27°48	18°13	5°43	7°50	11° 3	9° 5	18° 3	16° 4	13°31
S 27	16 15 42	4°59'23	4°51	0♄35	19°50	6°19	7°55	11° 5	9° 6	18° 3	16° 5	13°31
S 28	16 19 39	5°56'53	5°49	3°21	21°28	6°54	8° 0	11° 7	9° 6	18° 4	16° 5	13°32
M29	16 23 36	6°54'21	6°47	6° 6	23° 5	7°30	8° 4	11° 9	9° 7	18° 4	16° 5	13°33
T 30	16 27 32	7°51'48	7°46	8°51	24°43	8° 5	8° 9	11°11	9° 8	18° 4	16° 6	13°33
W31	16 31 29	8♁49'14	8♁45	11♁35	26♄20	8♁41	8♄13	11♄13	9♁9	18♂5	16♄6	13♁34

Delta T = 9.99 sec.

Greg. Calendar

JUNE 1719

00:00 UT

Day	Sid.t	Terra	♃	♀	♁	♂	♂	♃	♁	♂	♁	♂
T 1	16 35 25	9♁46'39	9♁44	14♁20	27♄58	9♁16	8♄18	11♄14	9♁9	18♂5	16♄7	13♁35
F 2	16 39 22	10°44'02	10°43	17° 5	29°35	9°52	8°23	11°16	9°10	18° 6	16° 7	13°35
S 3	16 43 18	11°41'25	11°43	19°50	1♄13	10°28	8°27	11°18	9°11	18° 6	16° 7	13°36
S 4	16 47 15	12°38'47	12°42	22°36	2°50	11° 4	8°32	11°20	9°12	18° 6	16° 8	13°37
M 5	16 51 11	13°36'09	13°41	25°23	4°28	11°39	8°36	11°22	9°13	18° 7	16° 8	13°37
T 6	16 55 8	14°33'29	14°40	28°10	6° 5	12°15	8°41	11°24	9°13	18° 7	16° 8	13°38
W 7	16 59 5	15°30'49	15°38	0♄59	7°43	12°51	8°46	11°26	9°14	18° 7	16° 9	13°38
T 8	17 3 1	16°28'09	16°37	3°50	9°20	13°27	8°50	11°28	9°15	18° 8	16° 9	13°39
F 9	17 6 58	17°25'28	17°34	6°42	10°58	14° 3	8°55	11°29	9°16	18° 8	16° 9	13°40
S 10	17 10 54	18°22'46	18°32	9°36	12°35	14°39	8°59	11°31	9°16	18° 8	16°10	13°40
S 11	17 14 51	19°20'04	19°29	12°32	14°13	15°16	9° 4	11°33	9°17	18° 9	16°10	13°41
M12	17 18 47	20°17'22	20°26	15°30	15°50	15°52	9° 9	11°35	9°18	18° 9	16°10	13°42
T 13	17 22 44	21°14'39	21°22	18°32	17°27	16°28	9°13	11°37	9°19	18°10	16°11	13°42
W14	17 26 40	22°11'56	22°18	21°36	19° 5	17° 4	9°18	11°39	9°19	18°10	16°11	13°43
T 15	17 30 37	23° 9'13	23°14	24°43	20°42	17°41	9°22	11°41	9°20	18°10	16°12	13°44
F 16	17 34 34	24° 6'29	24°10	27°54	22°19	18°17	9°27	11°42	9°21	18°11	16°12	13°44
S 17	17 38 30	25° 3'46	25° 5	1♁8	23°56	18°53	9°32	11°44	9°22	18°11	16°12	13°45
S 18	17 42 27	26° 1'01	26° 1	4°26	25°34	19°30	9°36	11°46	9°23	18°11	16°13	13°46
M19	17 46 23	26°58'17	26°56	7°49	27°11	20° 6	9°41	11°48	9°23	18°12	16°13	13°46
T 20	17 50 20	27°55'31	27°52	11°16	28°48	20°43	9°45	11°50	9°24	18°12	16°13	13°47
W21	17 54 16	28°52'46	28°47	14°49	0♄25	21°19	9°50	11°52	9°25	18°13	16°14	13°48
T 22	17 58 13	29°50'00	29°43	18°27	2° 2	21°56	9°55	11°54	9°26	18°13	16°14	13°48
F 23	18 2 10	0♄47'13	0♄40	22°10	3°39	22°33	9°59	11°56	9°26	18°13	16°14	13°49
S 24	18 6 6	1°44'26	1°36	26° 0	5°16	23° 9	10° 4	11°57	9°27	18°14	16°15	13°50
S 25	18 10 3	2°41'38	2°33	29°56	6°53	23°46	10° 8	11°59	9°28	18°14	16°15	13°50
M26	18 13 59	3°38'50	3°31	3♁59	8°30	24°23	10°13	12° 1	9°29	18°14	16°16	13°51
T 27	18 17 56	4°36'01	4°29	8° 9	10° 7	25° 0	10°18	12° 3	9°30	18°15	16°16	13°51
W28	18 21 52	5°33'12	5°27	12°26	11°44	25°37	10°22	12° 5	9°30	18°15	16°16	13°52
T 29	18 25 49	6°30'22	6°25	16°52	13°21	26°14	10°27	12° 7	9°31	18°15	16°17	13°53
F 30	18 29 45	7♁27'33	7♁24	21♁26	14♁57	26♁51	10♄31	12♄9	9♁32	18♂16	16♄17	13♁53

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