

SWISS EPHEMERIS for the year 2028

JANUARY 2028

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	6 40 45	10°3'48"	25°39'	21°37'	15°00'	27°55'	27°18'	21°05'	6°42'	3°56'	5°58'	2°25'	3°31'	22°33'	0°R 4
S 2	6 44 41	11° 5'48"	7°26'	23°13'	16°14'	28°42'	27°20'	21° 6'	6°40'	3°57'	6° 0'	2°26'	3°28'	22°40'	0°R 3
M 3	6 48 38	12° 6'58"	19°15'	24°50'	17°27'	29°29'	27°22'	21° 7'	6°38'	3°57'	6° 1'	2°28'	3°25'	22°47'	0° 3
T 4	6 52 35	13° 8'07"	1°13'	26°26'	18°40'	0°16'	27°24'	21° 8'	6°36'	3°58'	6° 3'	2°29'	3°21'	22°53'	0° 2
W 5	6 56 31	14° 9'17"	13°22'	28° 1'	19°54'	1° 3'	27°26'	21° 9'	6°34'	3°59'	6° 5'	2°R30	3°18'	23° 0'	0° 2
T 6	7 0 28	15°10'26"	25°49'	29°36'	21° 7'	1°50'	27°27'	21°10'	6°32'	3°59'	6° 7'	2°29'	3°15'	23° 6'	0° 2
F 7	7 4 24	16°11'35"	8°37'	1°11'	22°20'	2°37'	27°28'	21°12'	6°30'	4° 0'	6° 9'	2°28'	3°12'	23°13'	0° 1
S 8	7 8 21	17°12'43"	21°50'	2°44'	23°33'	3°24'	27°29'	21°14'	6°29'	4° 1'	6°10'	2°26'	3° 9'	23°20'	0° 1
S 9	7 12 17	18°13'51"	5°13'	4°17'	24°46'	4°11'	27°30'	21°15'	6°27'	4° 2'	6°12'	2°24'	3° 6'	23°26'	0° 1
M10	7 16 14	19°14'59"	19°37'	5°48'	25°59'	4°58'	27°30'	21°17'	6°25'	4° 2'	6°14'	2°23'	3° 2'	23°33'	0°D 1
T11	7 20 11	20°16'06"	4° 7'	7°17'	27°12'	5°45'	27°31'	21°19'	6°24'	4° 3'	6°16'	2°21'	2°59'	23°40'	0° 1
W12	7 24 7	21°17'13"	18°56'	8°44'	28°25'	6°33'	27°R31	21°21'	6°22'	4° 4'	6°18'	2°20'	2°56'	23°46'	0° 1
T13	7 28 4	22°18'20"	3°25'	10° 8'	29°38'	7°20'	27°31'	21°23'	6°20'	4° 5'	6°19'	2°D20	2°53'	23°53'	0° 1
F14	7 32 0	23°19'26"	18°59'	11°30'	0°15'	8° 7'	27°30'	21°25'	6°19'	4° 6'	6°21'	2°20'	2°50'	24° 0'	0° 2
S15	7 35 57	24°20'32"	3°17'	12°47'	2° 3'	8°54'	27°30'	21°28'	6°17'	4° 7'	6°23'	2°21'	2°47'	24° 6'	0° 2
S16	7 39 53	25°21'38"	18°39'	14° 1'	3°16'	9°42'	27°29'	21°30'	6°16'	4° 8'	6°25'	2°22'	2°43'	24°13'	0° 2
M17	7 43 50	26°22'44"	3° 4'	15° 9'	4°28'	10°29'	27°29'	21°33'	6°15'	4° 9'	6°27'	2°22'	2°40'	24°20'	0° 2
T18	7 47 46	27°23'49"	17° 7'	16°12'	5°41'	11°16'	27°28'	21°35'	6°13'	4°11'	6°29'	2°23'	2°37'	24°26'	0° 3
W19	7 51 43	28°24'55"	0°14'	17° 8'	6°53'	12° 4'	27°26'	21°38'	6°12'	4°12'	6°31'	2°R23	2°34'	24°33'	0° 3
T20	7 55 40	29°26'00"	14° 7'	17°57'	8° 5'	12°51'	27°25'	21°41'	6°11'	4°13'	6°33'	2°22'	2°31'	24°40'	0° 4
F21	7 59 36	0°27'05"	27° 7'	18°37'	9°17'	13°38'	27°24'	21°44'	6°10'	4°14'	6°34'	2°22'	2°27'	24°46'	0° 4
S22	8 3 33	1°28'09"	9°15'	19° 9'	10°30'	14°26'	27°22'	21°47'	6° 8'	4°15'	6°36'	2°22'	2°24'	24°53'	0° 5
S23	8 7 29	2°29'13"	22°18'	19°30'	11°42'	15°13'	27°20'	21°50'	6° 7'	4°17'	6°38'	2°D22	2°21'	25° 0'	0° 6
M24	8 11 26	3°30'17"	4°34'	19°R41	12°54'	16° 0'	27°18'	21°53'	6° 6'	4°18'	6°40'	2°22'	2°18'	25° 6'	0° 7
T25	8 15 22	4°31'20"	16°40'	19°40'	14° 6'	16°48'	27°15'	21°57'	6° 5'	4°19'	6°42'	2°22'	2°15'	25°13'	0° 7
W26	8 19 19	5°32'22"	28°39'	19°28'	15°17'	17°35'	27°13'	22° 0'	6° 4'	4°21'	6°44'	2°R22	2°12'	25°20'	0° 8
T27	8 23 15	6°33'23"	10°32'	19° 5'	16°29'	18°23'	27°10'	22° 4'	6° 3'	4°22'	6°46'	2°22'	2° 8'	25°26'	0° 9
F28	8 27 12	7°34'24"	22°21'	18°30'	17°41'	19°10'	27° 7'	22° 7'	6° 3'	4°23'	6°48'	2°22'	2° 5'	25°33'	0°10
S29	8 31 9	8°35'23"	4°11'	17°45'	18°52'	19°58'	27° 4'	22°11'	6° 2'	4°25'	6°50'	2°21'	2° 2'	25°40'	0°11
S30	8 35 5	9°36'22"	15°57'	16°51'	20° 3'	20°45'	27° 1'	22°15'	6° 1'	4°26'	6°51'	2°20'	1°59'	25°46'	0°12
M31	8 39 2	10°37'19"	27°15'	15°49'	21°15'	21°33'	26°17'	22°19'	6°11'	4°27'	6°53'	2°19'	1°56'	25°53'	0°13

Delta T = 84.30 sec.

FEBRUARY 2028

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 42 58	11°38'15"	9°49'	14°R41	22°26'	22°20'	26°R54	22°23'	6°R 0	4°29'	6°55'	2°R18	1°53'	26° 0'	0°15
W 2	8 46 55	12°39'10"	21°58'	13°28'	23°37'	23° 8'	26°17'	22°27'	5°11'	4°31'	6°57'	2°17'	1°49'	26° 6'	0°16
T 3	8 50 51	13°40'04"	4°22'	12°14'	24°48'	23°55'	26°46'	22°31'	5°58'	4°32'	6°59'	2°16'	1°46'	26°13'	0°17
F 4	8 54 48	14°40'56"	17° 4'	11° 1'	25°59'	24°42'	26°42'	22°35'	5°58'	4°34'	7° 1'	2°D16	1°43'	26°19'	0°19
S 5	8 58 44	15°41'47"	0°11'	9°49'	27°10'	25°30'	26°38'	22°40'	5°58'	4°36'	7° 3'	2°17'	1°40'	26°26'	0°20
S 6	9 2 41	16°42'37"	13°38'	8°42'	28°20'	26°17'	26°33'	22°44'	5°57'	4°37'	7° 5'	2°17'	1°37'	26°33'	0°22
M 7	9 6 38	17°43'25"	27°34'	7°40'	29°31'	27° 5'	26°29'	22°49'	5°57'	4°39'	7° 7'	2°19'	1°33'	26°39'	0°23
T 8	9 10 34	18°44'12"	11°58'	6°45'	0°41'	27°52'	26°24'	22°53'	5°57'	4°41'	7° 8'	2°20'	1°30'	26°46'	0°25
W 9	9 14 31	19°44'58"	26°45'	5°58'	1°51'	28°40'	26°19'	22°58'	5°56'	4°42'	7°10'	2°R21	1°27'	26°53'	0°26
T10	9 18 27	20°45'42"	11°25'	5°18'	3° 1'	29°27'	26°14'	23° 3'	5°56'	4°44'	7°12'	2°20'	1°24'	26°59'	0°28
F11	9 22 24	21°46'24"	27° 5'	4°46'	4°11'	0°15'	26° 9'	23° 8'	5°56'	4°46'	7°14'	2°19'	1°21'	27° 6'	0°30
S12	9 26 20	22°47'05"	12°19'	4°23'	5°21'	1° 2'	26° 3'	23°13'	5°56'	4°48'	7°16'	2°17'	1°18'	27°13'	0°32
S13	9 30 17	23°47'45"	27°23'	4° 8'	6°30'	1°50'	25°58'	23°18'	5°D56	4°49'	7°18'	2°14'	1°14'	27°19'	0°33
M14	9 34 13	24°48'24"	12° 8'	4° 0'	7°40'	2°37'	25°52'	23°23'	5°56'	4°51'	7°19'	2°11'	1°11'	27°26'	0°35
T15	9 38 10	25°49'02"	26°28'	4°D 0	8°49'	3°25'	25°46'	23°28'	5°56'	4°53'	7°21'	2° 8'	1° 8'	27°33'	0°37
W16	9 42 7	26°49'38"	10°12'	4° 7'	9°58'	4°12'	25°40'	23°33'	5°56'	4°55'	7°23'	2° 6'	1° 5'	27°39'	0°39
T17	9 46 3	27°50'14"	23°44'	4°20'	11° 7'	4°59'	25°34'	23°39'	5°56'	4°57'	7°25'	2°D 5	1° 2'	27°46'	0°41
F18	9 50 0	28°50'48"	6°43'	4°39'	12°16'	5°47'	25°28'	23°44'	5°57'	4°59'	7°27'	2° 5'	0°59'	27°53'	0°43
S19	9 53 56	29°51'21"	19°20'	5° 4'	13°25'	6°34'	25°21'	23°49'	5°57'	5° 1'	7°28'	2° 7'	0°55'	27°59'	0°45
S20	9 57 53	0°15'53"	1°39'	5°35'	14°33'	7°22'	25°15'	23°55'	5°57'	5° 3'	7°30'	2° 8'	0°52'	28° 6'	0°48
M21	10 1 49	1°52'23"	13°45'	6°10'	15°42'	8° 9'	25° 8'	24° 1'	5°58'	5° 5'	7°32'	2°10'	0°49'	28°13'	0°50
T22	10 5 46	2°52'52"	25°41'	6°49'	16°50'	8°57'	25° 2'	24° 6'	5°58'	5° 7'	7°34'	2°11'	0°46'	28°19'	0°52
W23	10 9 42	3°53'20"	7°32'	7°33'	17°58'	9°44'	24°55'	24°12'	5°59'	5° 9'	7°36'	2°R11	0°43'	28°26'	0°54
T24	10 13 39	4°53'46"	19°20'	8°20'	19° 5'	10°31'	24°48'	24°18'	5°59'	5°11'	7°37'	2°10'	0°39'	28°33'	0°57
F25	10 17 36	5°54'10"	1°11'	9°11'	20°13'	11°19'	24°41'	24°24'	6° 0'	5°13'	7°39'	2° 7'	0°36'	28°39'	0°59
S26	10 21 32	6°54'33"	12°57'	10° 5'	21°20'	12° 6'	24°34'	24°30'	6° 0'	5°15'	7°41'	2° 2'	0°33'	28°46'	1° 2
S27	10 25 29	7°54'54"	24°50'	11° 2'	22°27'	12°53'	24°27'	24°36'	6° 1'	5°17'	7°42'	1°55'	0°30'	28°53'	1° 4
M28	10 29 25	8°55'13"	6°49'	12° 2'	23°34'	13°41'	24°19'	24°42'	6° 2'	5°19'	7°44'	1°48'	0°27'	28°59'	1° 7
T29	10 33 22	9°55'31"	18°56'	13° 4'	24°41'	14°28'	24°12'	24°48'	6°11'	5°21'	7°46'	1°41'	0°24'	29° 6'	1° 9

Delta T = 84.44 sec.

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SWISS EPHEMERIS for the year 2028

MARCH 2028

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	10 37 18	10 ^h 55'46"	1 ^h 11'	14 ^h 29'	25 ^h 47'	15 ^h 15'	24 ^h 05'	24 ^h 54'	6 ^h 11'	5 ^h 23'	7 ^h 47'	1 ^h 35'	0 ^h 20'	29 ^h 13'	1 ^h 12'
T 2	10 41 15	11 ^h 56'00"	13 ^h 39'	15 ^h 16'	26 ^h 54'	16 ^h 02'	23 ^h 57'	25 ^h 00'	6 ^h 05'	5 ^h 25'	7 ^h 49'	1 ^h 30'	0 ^h 17'	29 ^h 19'	1 ^h 14'
F 3	10 45 11	12 ^h 56'11"	26 ^h 21'	16 ^h 25'	28 ^h 00'	16 ^h 50'	23 ^h 50'	25 ^h 06'	6 ^h 05'	5 ^h 27'	7 ^h 51'	1 ^h 26'	0 ^h 14'	29 ^h 26'	1 ^h 17'
S 4	10 49 08	13 ^h 56'21"	9 ^h 22'	17 ^h 37'	29 ^h 05'	17 ^h 37'	23 ^h 42'	25 ^h 13'	6 ^h 07'	5 ^h 29'	7 ^h 52'	1 ^h 25'	0 ^h 11'	29 ^h 33'	1 ^h 20'
S 5	10 53 05	14 ^h 56'28"	22 ^h 41'	18 ^h 50'	0 ^h 11'	18 ^h 24'	23 ^h 35'	25 ^h 19'	6 ^h 08'	5 ^h 31'	7 ^h 54'	1 ^h 25'	0 ^h 08'	29 ^h 39'	1 ^h 23'
M 6	10 57 01	15 ^h 56'34"	6 ^h 24'	20 ^h 05'	1 ^h 16'	19 ^h 11'	23 ^h 27'	25 ^h 26'	6 ^h 09'	5 ^h 34'	7 ^h 55'	1 ^h 26'	0 ^h 05'	29 ^h 46'	1 ^h 25'
T 7	11 00 58	16 ^h 56'37"	20 ^h 32'	21 ^h 22'	2 ^h 21'	19 ^h 58'	23 ^h 19'	25 ^h 32'	6 ^h 10'	5 ^h 36'	7 ^h 57'	1 ^h 27'	0 ^h 01'	29 ^h 53'	1 ^h 28'
W 8	11 04 54	17 ^h 56'38"	5 ^h 02'	22 ^h 40'	3 ^h 26'	20 ^h 45'	23 ^h 11'	25 ^h 39'	6 ^h 11'	5 ^h 38'	7 ^h 58'	1 ^h 28'	29 ^h 58'	29 ^h 59'	1 ^h 31'
T 9	11 08 51	18 ^h 56'37"	19 ^h 57'	24 ^h 00'	4 ^h 30'	21 ^h 32'	23 ^h 04'	25 ^h 45'	6 ^h 12'	5 ^h 40'	8 ^h 00'	1 ^h 26'	29 ^h 55'	0 ^h 06'	1 ^h 34'
F 10	11 12 47	19 ^h 56'33"	5 ^h 04'	25 ^h 21'	5 ^h 34'	22 ^h 20'	22 ^h 56'	25 ^h 52'	6 ^h 14'	5 ^h 42'	8 ^h 01'	1 ^h 23'	29 ^h 52'	0 ^h 13'	1 ^h 37'
S 11	11 16 44	20 ^h 56'28"	20 ^h 17'	26 ^h 44'	6 ^h 38'	23 ^h 07'	22 ^h 48'	25 ^h 59'	6 ^h 15'	5 ^h 45'	8 ^h 03'	1 ^h 17'	29 ^h 49'	0 ^h 19'	1 ^h 40'
S 12	11 20 40	21 ^h 56'21"	5 ^h 02'	28 ^h 09'	7 ^h 41'	23 ^h 54'	22 ^h 40'	26 ^h 05'	6 ^h 17'	5 ^h 47'	8 ^h 04'	1 ^h 09'	29 ^h 45'	0 ^h 26'	1 ^h 43'
M 13	11 24 37	22 ^h 56'11"	20 ^h 21'	29 ^h 34'	8 ^h 44'	24 ^h 41'	22 ^h 33'	26 ^h 12'	6 ^h 18'	5 ^h 49'	8 ^h 06'	1 ^h 01'	29 ^h 42'	0 ^h 33'	1 ^h 46'
T 14	11 28 33	23 ^h 56'01"	4 ^h 05'	1 ^h 01'	9 ^h 47'	25 ^h 27'	22 ^h 25'	26 ^h 19'	6 ^h 20'	5 ^h 51'	8 ^h 07'	0 ^h 53'	29 ^h 39'	0 ^h 39'	1 ^h 49'
W 15	11 32 30	24 ^h 55'48"	18 ^h 55'	2 ^h 30'	10 ^h 50'	26 ^h 14'	22 ^h 17'	26 ^h 26'	6 ^h 21'	5 ^h 54'	8 ^h 09'	0 ^h 47'	29 ^h 36'	0 ^h 46'	1 ^h 52'
T 16	11 36 27	25 ^h 55'34"	2 ^h 02'	4 ^h 00'	11 ^h 52'	27 ^h 01'	22 ^h 09'	26 ^h 33'	6 ^h 23'	5 ^h 56'	8 ^h 10'	0 ^h 42'	29 ^h 33'	0 ^h 53'	1 ^h 55'
F 17	11 40 23	26 ^h 55'18"	15 ^h 33'	5 ^h 31'	12 ^h 53'	27 ^h 48'	22 ^h 01'	26 ^h 40'	6 ^h 24'	5 ^h 58'	8 ^h 11'	0 ^h 39'	29 ^h 30'	0 ^h 59'	1 ^h 58'
S 18	11 44 20	27 ^h 55'00"	28 ^h 13'	7 ^h 03'	13 ^h 55'	28 ^h 35'	21 ^h 54'	26 ^h 47'	6 ^h 26'	6 ^h 00'	8 ^h 13'	0 ^h 38'	29 ^h 26'	1 ^h 06'	2 ^h 02'
S 19	11 48 16	28 ^h 54'41"	10 ^h 32'	8 ^h 37'	14 ^h 56'	29 ^h 22'	21 ^h 46'	26 ^h 54'	6 ^h 28'	6 ^h 03'	8 ^h 14'	0 ^h 39'	29 ^h 23'	1 ^h 13'	2 ^h 05'
M 20	11 52 13	29 ^h 54'20"	22 ^h 35'	10 ^h 12'	15 ^h 56'	0 ^h 09'	21 ^h 38'	27 ^h 01'	6 ^h 30'	6 ^h 05'	8 ^h 15'	0 ^h 40'	29 ^h 20'	1 ^h 19'	2 ^h 08'
T 21	11 56 09	0 ^h 53'57"	4 ^h 28'	11 ^h 48'	16 ^h 56'	0 ^h 55'	21 ^h 31'	27 ^h 08'	6 ^h 32'	6 ^h 07'	8 ^h 17'	0 ^h 40'	29 ^h 17'	1 ^h 26'	2 ^h 11'
W 22	12 00 06	1 ^h 53'32"	16 ^h 16'	13 ^h 26'	17 ^h 56'	1 ^h 42'	21 ^h 23'	27 ^h 15'	6 ^h 33'	6 ^h 09'	8 ^h 18'	0 ^h 39'	29 ^h 14'	1 ^h 33'	2 ^h 15'
T 23	12 04 02	2 ^h 53'06"	28 ^h 02'	15 ^h 05'	18 ^h 55'	2 ^h 29'	21 ^h 15'	27 ^h 22'	6 ^h 35'	6 ^h 12'	8 ^h 19'	0 ^h 35'	29 ^h 10'	1 ^h 39'	2 ^h 18'
F 24	12 07 59	3 ^h 52'37"	9 ^h 51'	16 ^h 45'	19 ^h 54'	3 ^h 15'	21 ^h 08'	27 ^h 30'	6 ^h 37'	6 ^h 14'	8 ^h 20'	0 ^h 28'	29 ^h 07'	1 ^h 46'	2 ^h 21'
S 25	12 11 56	4 ^h 52'07"	21 ^h 45'	18 ^h 26'	20 ^h 53'	4 ^h 02'	21 ^h 00'	27 ^h 37'	6 ^h 39'	6 ^h 16'	8 ^h 22'	0 ^h 19'	29 ^h 04'	1 ^h 53'	2 ^h 25'
S 26	12 15 52	5 ^h 51'34"	3 ^h 46'	20 ^h 09'	21 ^h 51'	4 ^h 49'	20 ^h 53'	27 ^h 44'	6 ^h 41'	6 ^h 18'	8 ^h 23'	0 ^h 08'	29 ^h 01'	1 ^h 59'	2 ^h 28'
M 27	12 19 49	6 ^h 51'00"	15 ^h 56'	21 ^h 53'	22 ^h 48'	5 ^h 35'	20 ^h 46'	27 ^h 51'	6 ^h 44'	6 ^h 21'	8 ^h 24'	29 ^h 56'	28 ^h 58'	2 ^h 06'	2 ^h 31'
T 28	12 23 45	7 ^h 50'23"	28 ^h 15'	23 ^h 38'	23 ^h 45'	6 ^h 22'	20 ^h 39'	27 ^h 59'	6 ^h 46'	6 ^h 23'	8 ^h 25'	29 ^h 43'	28 ^h 55'	2 ^h 13'	2 ^h 35'
W 29	12 27 42	8 ^h 49'45"	10 ^h 34'	25 ^h 25'	24 ^h 41'	7 ^h 08'	20 ^h 31'	28 ^h 06'	6 ^h 48'	6 ^h 25'	8 ^h 26'	29 ^h 31'	28 ^h 51'	2 ^h 19'	2 ^h 38'
T 30	12 31 38	9 ^h 49'04"	23 ^h 23'	27 ^h 13'	25 ^h 37'	7 ^h 55'	20 ^h 24'	28 ^h 14'	6 ^h 50'	6 ^h 27'	8 ^h 27'	29 ^h 22'	28 ^h 48'	2 ^h 26'	2 ^h 42'
F 31	12 35 35	10 ^h 48'21"	6 ^h 15'	29 ^h 03'	26 ^h 33'	8 ^h 41'	20 ^h 17'	28 ^h 21'	6 ^h 52'	6 ^h 30'	8 ^h 28'	29 ^h 14'	28 ^h 45'	2 ^h 33'	2 ^h 45'

Delta T = 84.57 sec.

APRIL 2028

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	12 39 31	11 ^h 47'36"	19 ^h 22'	0 ^h 53'	27 ^h 27'	9 ^h 27'	20 ^h 11'	28 ^h 28'	6 ^h 55'	6 ^h 32'	8 ^h 29'	29 ^h 10'	28 ^h 42'	2 ^h 39'	2 ^h 49'
S 2	12 43 28	12 ^h 46'48"	2 ^h 04'	2 ^h 46'	28 ^h 21'	10 ^h 14'	20 ^h 04'	28 ^h 36'	6 ^h 57'	6 ^h 34'	8 ^h 30'	29 ^h 08'	28 ^h 39'	2 ^h 46'	2 ^h 52'
M 3	12 47 25	13 ^h 45'59"	16 ^h 17'	4 ^h 39'	29 ^h 15'	11 ^h 00'	19 ^h 57'	28 ^h 43'	6 ^h 59'	6 ^h 37'	8 ^h 31'	29 ^h 08'	28 ^h 36'	2 ^h 53'	2 ^h 56'
T 4	12 51 21	14 ^h 45'06"	0 ^h 02'	6 ^h 34'	0 ^h 02'	11 ^h 46'	19 ^h 51'	28 ^h 51'	7 ^h 02'	6 ^h 39'	8 ^h 32'	29 ^h 08'	28 ^h 32'	2 ^h 59'	2 ^h 59'
W 5	12 55 18	15 ^h 44'12"	14 ^h 28'	8 ^h 30'	1 ^h 00'	12 ^h 32'	19 ^h 44'	28 ^h 58'	7 ^h 04'	6 ^h 41'	8 ^h 33'	29 ^h 07'	28 ^h 29'	3 ^h 06'	3 ^h 03'
T 6	12 59 14	16 ^h 43'15"	29 ^h 01'	10 ^h 28'	1 ^h 51'	13 ^h 19'	19 ^h 38'	29 ^h 06'	7 ^h 07'	6 ^h 43'	8 ^h 34'	29 ^h 04'	28 ^h 26'	3 ^h 13'	3 ^h 07'
F 7	13 03 11	17 ^h 42'16"	13 ^h 04'	12 ^h 27'	2 ^h 42'	14 ^h 05'	19 ^h 32'	29 ^h 13'	7 ^h 09'	6 ^h 46'	8 ^h 35'	28 ^h 59'	28 ^h 23'	3 ^h 19'	3 ^h 10'
S 8	13 07 07	18 ^h 41'14"	28 ^h 44'	14 ^h 27'	3 ^h 32'	14 ^h 51'	19 ^h 26'	29 ^h 21'	7 ^h 12'	6 ^h 48'	8 ^h 36'	28 ^h 51'	28 ^h 20'	3 ^h 26'	3 ^h 14'
S 9	13 11 04	19 ^h 40'10"	13 ^h 03'	16 ^h 29'	4 ^h 21'	15 ^h 37'	19 ^h 20'	29 ^h 28'	7 ^h 15'	6 ^h 50'	8 ^h 37'	28 ^h 41'	28 ^h 16'	3 ^h 33'	3 ^h 17'
M 10	13 15 00	20 ^h 39'05"	28 ^h 25'	18 ^h 31'	5 ^h 09'	16 ^h 23'	19 ^h 14'	29 ^h 36'	7 ^h 17'	6 ^h 52'	8 ^h 38'	28 ^h 29'	28 ^h 13'	3 ^h 39'	3 ^h 21'
T 11	13 18 57	21 ^h 37'57"	12 ^h 05'	20 ^h 35'	5 ^h 57'	17 ^h 09'	19 ^h 08'	29 ^h 44'	7 ^h 20'	6 ^h 54'	8 ^h 38'	28 ^h 18'	28 ^h 10'	3 ^h 46'	3 ^h 25'
W 12	13 22 54	22 ^h 36'48"	26 ^h 57'	22 ^h 40'	6 ^h 43'	17 ^h 55'	19 ^h 03'	29 ^h 51'	7 ^h 23'	6 ^h 57'	8 ^h 39'	28 ^h 08'	28 ^h 07'	3 ^h 53'	3 ^h 28'
T 13	13 26 50	23 ^h 35'36"	10 ^h 03'	24 ^h 45'	7 ^h 29'	18 ^h 41'	18 ^h 57'	29 ^h 59'	7 ^h 25'	6 ^h 59'	8 ^h 40'	28 ^h 00'	28 ^h 04'	3 ^h 59'	3 ^h 32'
F 14	13 30 47	24 ^h 34'23"	23 ^h 43'	26 ^h 51'	8 ^h 14'	19 ^h 26'	18 ^h 52'	0 ^h 06'	7 ^h 28'	7 ^h 01'	8 ^h 41'	27 ^h 55'	28 ^h 01'	4 ^h 06'	3 ^h 36'
S 15	13 34 43	25 ^h 33'09"	6 ^h 27'	28 ^h 58'	8 ^h 58'	20 ^h 12'	18 ^h 47'	0 ^h 14'	7 ^h 31'	7 ^h 03'	8 ^h 41'	27 ^h 52'	27 ^h 57'	4 ^h 13'	3 ^h 39'
S 16	13 38 40	26 ^h 31'52"	18 ^h 49'	1 ^h 04'	9 ^h 41'	20 ^h 58'	18 ^h 42'	0 ^h 22'	7 ^h 34'	7 ^h 05'	8 ^h 42'	27 ^h 52'	27 ^h 54'	4 ^h 19'	3 ^h 43'
M 17	13 42 36	27 ^h 30'34"	0 ^h 05'	3 ^h 11'	10 ^h 22'	21 ^h 44'	18 ^h 37'	0 ^h 29'	7 ^h 37'	7 ^h 08'	8 ^h 43'	27 ^h 51'	27 ^h 51'	4 ^h 26'	

SWISS EPHEMERIS for the year 2028

MAY 2028

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	14 37 48	11♈ 9°13	26♊54	29♈53	17♈51	2♈18	17°R47	2♈16	8♈19	7♈37	8♈49	26°D12	27♈ 7	5♈59	4♈39
T 2	14 41 45	12° 7'27	10♈48	1♈25	18°11	3° 3	17°R45	2°24	8°23	7°39	8°49	26°R12	27° 3	6° 6	4°42
W 3	14 45 41	13° 5'39	24°54	2°53	18°30	3°48	17°43	2°31	8°26	7°41	8°49	26°R11	27° 0	6°13	4°46
T 4	14 49 38	14° 3'49	9♈11	4°16	18°46	4°33	17°41	2°39	8°29	7°42	8°49	26° 9	26°57	6°20	4°50
F 5	14 53 34	15° 1'56	23°37	5°35	19° 1	5°18	17°40	2°47	8°32	7°44	8°49	26° 5	26°54	6°26	4°53
S 6	14 57 31	16° 0'02	8♈ 8	6°50	19°13	6° 3	17°38	2°54	8°36	7°46	8°49	25°58	26°51	6°33	4°57
S 7	15 1 27	16°58'06	22°38	8° 1	19°23	6°47	17°37	3° 2	8°39	7°48	8°49	25°48	26°48	6°40	5° 1
M 8	15 5 24	17°56'08	7♈ 1	9° 7	19°31	7°32	17°36	3° 9	8°42	7°50	8°49	25°38	26°44	6°46	5° 4
T 9	15 9 21	18°54'09	21°11	10° 9	19°37	8°17	17°35	3°17	8°46	7°52	8°R50	25°28	26°41	6°53	5° 8
W10	15 13 17	19°52'08	5♈ 2	11° 6	19°40	9° 1	17°34	3°24	8°49	7°54	8°50	25°19	26°38	7° 0	5°12
T 11	15 17 14	20°50'06	18°31	11°58	19°R41	9°46	17°33	3°31	8°52	7°55	8°49	25°11	26°35	7° 6	5°15
F 12	15 21 10	21°48'02	1♈37	12°46	19°40	10°30	17°33	3°39	8°56	7°57	8°49	25° 6	26°32	7°13	5°19
S 13	15 25 7	22°45'57	14°20	13°29	19°36	11°15	17°32	3°46	8°59	7°59	8°49	25° 4	26°28	7°20	5°23
S 14	15 29 3	23°43'50	26°44	14° 7	19°30	11°59	17°D32	3°54	9° 3	8° 1	8°49	25°D 4	26°25	7°26	5°26
M15	15 33 0	24°41'42	8♈51	14°41	19°22	12°43	17°33	4° 1	9° 6	8° 2	8°49	25° 4	26°22	7°33	5°30
T 16	15 36 56	25°39'33	20°48	15° 9	19°11	13°27	17°33	4° 8	9°10	8° 4	8°49	25°R 5	26°19	7°40	5°33
W17	15 40 53	26°37'23	2♈38	15°33	18°57	14°12	17°33	4°16	9°13	8° 6	8°49	25° 5	26°16	7°46	5°37
T 18	15 44 50	27°35'11	14°29	15°52	18°42	14°56	17°34	4°23	9°17	8° 7	8°49	25° 3	26°13	7°53	5°40
F 19	15 48 46	28°32'58	26°24	16° 6	18°23	15°40	17°35	4°30	9°20	8° 9	8°48	24°59	26° 9	8° 0	5°44
S 20	15 52 43	29°30'44	8♈28	16°14	18° 3	16°24	17°36	4°37	9°23	8°11	8°48	24°53	26° 6	8° 6	5°47
S 21	15 56 39	0♈28'29	20°44	16°R19	17°40	17° 8	17°37	4°44	9°27	8°12	8°48	24°46	26° 3	8°13	5°51
M22	16 0 36	1°26'13	3♈16	16°18	17°16	17°52	17°38	4°52	9°30	8°14	8°47	24°37	26° 0	8°20	5°54
T 23	16 4 32	2°23'56	16° 3	16°13	16°49	18°36	17°40	4°59	9°34	8°15	8°47	24°27	25°57	8°26	5°58
W24	16 8 29	3°21'37	29° 8	16° 3	16°20	19°19	17°42	5° 6	9°37	8°17	8°47	24°19	25°53	8°33	6° 1
T 25	16 12 25	4°19'18	12♈27	15°49	15°50	20° 3	17°44	5°13	9°41	8°18	8°46	24°11	25°50	8°40	6° 4
F 26	16 16 22	5°16'57	26° 1	15°31	15°18	20°47	17°46	5°20	9°44	8°20	8°46	24° 6	25°47	8°46	6° 8
S 27	16 20 19	6°14'35	9♈45	15°10	14°44	21°31	17°48	5°27	9°48	8°21	8°45	24° 3	25°44	8°53	6°11
S 28	16 24 15	7°12'11	23°39	14°45	14° 9	22°14	17°50	5°34	9°52	8°22	8°45	24°D 2	25°41	9° 0	6°15
M29	16 28 12	8° 9'46	7♈39	14°18	13°34	22°58	17°53	5°41	9°55	8°24	8°44	24° 3	25°38	9° 6	6°18
T 30	16 32 8	9° 7'19	21°44	13°48	12°57	23°41	17°56	5°47	9°59	8°25	8°44	24° 4	25°34	9°13	6°21
W31	16 36 5	10♈45'1	5♈53	13♈17	12♈20	24♈25	17°59	5♈54	10♈ 2	8♈26	8♈43	24°R 5	25♈31	9♈20	6♈24

Delta T = 84.84 sec.

JUNE 2028

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	16 40 1	11♈ 2'22	20♈ 5	12°R44	11°R42	25♈ 8	18°R 2	6♈ 1	10♈ 6	8♈28	8°R43	24°R 5	25♈28	9♈27	6♈28
F 2	16 43 58	11°59'51	4♈16	12♈10	11♈ 4	25°51	18° 5	6° 8	10° 9	8°29	8°R42	24°R 3	25°25	9°33	6°31
S 3	16 47 54	12°57'19	18°25	11°37	10°27	26°35	18° 9	6°14	10°13	8°30	8°41	23°59	25°22	9°40	6°34
S 4	16 51 51	13°54'46	2♈30	11° 4	9°49	27°18	18°12	6°21	10°16	8°31	8°41	23°54	25°19	9°47	6°37
M 5	16 55 48	14°52'12	16°25	10°31	9°13	28° 1	18°16	6°28	10°20	8°32	8°40	23°48	25°15	9°53	6°40
T 6	16 59 44	15°49'36	0♈ 9	10° 1	8°37	28°44	18°20	6°34	10°23	8°34	8°39	23°42	25°12	10° 0	6°43
W 7	17 3 41	16°47'00	13°37	9°32	8° 2	29°27	18°24	6°41	10°27	8°35	8°39	23°36	25° 9	10° 7	6°46
T 8	17 7 37	17°44'23	26°49	9° 7	7°29	0♈10	18°28	6°47	10°30	8°36	8°38	23°32	25° 6	10°13	6°49
F 9	17 11 34	18°41'45	9♈42	8°44	6°57	0°53	18°33	6°53	10°34	8°37	8°37	23°30	25° 3	10°20	6°52
S 10	17 15 30	19°39'06	22°18	8°24	6°27	1°36	18°38	7° 0	10°37	8°38	8°36	23°D29	24°59	10°27	6°55
S 11	17 19 27	20°36'27	4♈37	8° 8	5°58	2°19	18°42	7° 6	10°41	8°39	8°36	23°29	24°56	10°33	6°58
M12	17 23 23	21°33'47	16°43	7°57	5°32	3° 2	18°47	7°12	10°44	8°40	8°35	23°31	24°53	10°40	7° 1
T 13	17 27 20	22°31'06	28°40	7°49	5° 8	3°44	18°52	7°18	10°48	8°41	8°34	23°33	24°50	10°47	7° 4
W14	17 31 17	23°28'25	10♈32	7°D46	4°45	4°27	18°57	7°25	10°51	8°42	8°33	23°34	24°47	10°53	7° 7
T 15	17 35 13	24°25'44	22°24	7°47	4°25	5°10	19° 3	7°31	10°55	8°43	8°32	23°R35	24°44	11° 0	7°10
F 16	17 39 10	25°23'02	4♈20	7°52	4° 8	5°52	19° 8	7°37	10°58	8°43	8°31	23°34	24°40	11° 7	7°12
S 17	17 43 6	26°20'20	16°26	8° 3	3°52	6°35	19°14	7°43	11° 2	8°44	8°30	23°33	24°37	11°14	7°15
S 18	17 47 3	27°17'37	28°45	8°17	3°39	7°17	19°20	7°48	11° 5	8°45	8°29	23°30	24°34	11°20	7°18
M19	17 50 59	28°14'55	11♈21	8°37	3°29	7°59	19°26	7°54	11° 8	8°46	8°28	23°27	24°31	11°27	7°20
T 20	17 54 56	29°12'12	24°17	9° 1	3°21	8°42	19°32	8° 0	11°12	8°46	8°27	23°23	24°28	11°34	7°23
W21	17 58 52	0♈ 9'29	7♈34	9°29	3°15	9°24	19°38	8° 6	11°15	8°47	8°26	23°20	24°25	11°40	7°26
T 22	18 2 49	1° 6'45	21°10	10° 3	3°12	10° 6	19°44	8°11	11°19	8°48	8°25	23°17	24°21	11°47	7°28
F 23	18 6 46	2° 4'01	5♈ 5	10°40	3°D11	10°48	19°51	8°17	11°22	8°48	8°24	23°15	24°18	11°54	7°31
S 24	18 10 42	3° 1'17	19°15	11°22	3°12	11°31	19°57	8°22	11°25	8°49	8°23	23°D14	24°15	12° 0	7°33
S 25	18 14 39	3°58'32	3♈34	12° 8	3°16	12°13	20° 4	8°28	11°29	8°50	8°22	23°14	24°12	12° 7	7°35
M26	18 18 35	4°55'47	18° 0	12°58	3°21	12°55	20°11	8°33	11°32	8°50	8°21	23°15	24° 9	12°14	7°38
T 27	18 22 32	5°53'01	2♈26	13°53	3°29	13°37	20°18	8°39	11°35	8°51	8°20	23°16	24° 5	12°20	7°40
W28	18 26 28	6°50'15	14°52	3°40	14°18	20°25	8°44	8°44	11°39	8°51	8°19	23°17	24° 2	12°27	7°42
T 29	18 30 25	7°47'28	1♈ 5	15°54	3°52	15° 0	20°32	8°49	11°42	8°51	8°18	23°18	23°59	12°34	7°45
F 30	18 34 22	8°44'41	15♈13	17♈ 1	4♈ 6	15♈42	20°R40	8♈54	11♈45	8♈52	8♈16	23°R18	23♈56	12♈40	7♈47

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SWISS EPHEMERIS for the year 2028

JULY 2028

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	18 38 18	9°41'53	29°10	18°12	4°12	16°24	20°47	8°59	11°48	8°52	8°15	23°17	23°53	12°47	7°49
S 2	18 42 15	10°39'05	12°54	19°26	4°40	17° 5	20°55	9° 4	11°51	8°53	8°14	23°16	23°50	12°54	7°51
M 3	18 46 11	11°36'16	26°26	20°45	5° 0	17°47	21° 3	9° 9	11°55	8°53	8°13	23°15	23°46	13° 1	7°53
T 4	18 50 8	12°33'28	9°44	22° 7	5°21	18°29	21°11	9°14	11°58	8°53	8°12	23°13	23°43	13° 7	7°55
W 5	18 54 4	13°30'39	22°48	23°33	5°45	19°10	21°19	9°18	12° 1	8°53	8°10	23°12	23°40	13°14	7°57
T 6	18 58 1	14°27'50	5°37	25° 3	6°10	19°51	21°27	9°23	12° 4	8°54	8° 9	23°11	23°37	13°21	7°59
F 7	19 1 57	15°25'01	18°13	26°36	6°36	20°33	21°35	9°27	12° 7	8°54	8° 8	23°D11	23°34	13°27	8° 1
S 8	19 5 54	16°22'12	0°36	28°13	7° 4	21°14	21°43	9°32	12°10	8°54	8° 7	23°11	23°31	13°34	8° 3
S 9	19 9 51	17°19'23	12°48	29°53	7°34	21°55	21°52	9°36	12°13	8°54	8° 5	23°11	23°27	13°41	8° 5
M10	19 13 47	18°16'35	24°50	1°37	8° 5	22°37	22° 1	9°41	12°16	8°54	8° 4	23°12	23°24	13°47	8° 7
T 11	19 17 44	19°13'47	6°45	3°24	8°37	23°18	22° 9	9°45	12°19	8°54	8° 3	23°12	23°21	13°54	8° 8
W12	19 21 40	20°10'59	18°36	5°14	9°11	23°59	22°18	9°49	12°22	8°R54	8° 2	23°13	23°18	14° 1	8°10
T 13	19 25 37	21° 8'11	0°12	7° 7	9°46	24°40	22°27	9°53	12°25	8°54	8° 0	23°13	23°15	14° 7	8°11
F 14	19 29 33	22° 5'24	12°24	9° 3	10°22	25°21	22°36	9°57	12°28	8°54	7°59	23°13	23°11	14°14	8°13
S 15	19 33 30	23° 2'38	24°28	11° 1	11° 0	26° 2	22°45	10° 1	12°31	8°54	7°58	23°13	23° 8	14°21	8°15
S 16	19 37 26	23°59'52	6°46	13° 1	11°38	26°43	22°54	10° 5	12°34	8°54	7°56	23°13	23° 5	14°28	8°16
M17	19 41 23	24°57'07	19°22	15° 4	12°18	27°24	23° 4	10° 9	12°37	8°54	7°55	23°13	23° 2	14°34	8°17
T 18	19 45 20	25°54'23	2°19	17° 8	12°59	28° 4	23°13	10°12	12°39	8°53	7°54	23°13	22°59	14°41	8°19
W19	19 49 16	26°51'39	15°39	19°13	13°41	28°45	23°22	10°16	12°42	8°53	7°52	23°14	22°56	14°48	8°20
T 20	19 53 13	27°48'56	29°24	21°20	14°23	29°26	23°32	10°19	12°45	8°53	7°51	23°14	22°52	14°54	8°21
F 21	19 57 9	28°46'14	13°32	23°27	15° 7	0° 6	23°42	10°23	12°48	8°53	7°50	23°14	22°49	15° 1	8°23
S 22	20 1 6	29°43'32	28° 0	25°35	15°52	0°47	23°52	10°26	12°50	8°52	7°48	23°R15	22°46	15° 8	8°24
S 23	20 5 2	0°40'51	12°43	27°43	16°37	1°28	24° 1	10°29	12°53	8°52	7°47	23°14	22°43	15°14	8°25
M24	20 8 59	1°38'10	27°34	29°50	17°23	2° 8	24°11	10°32	12°56	8°52	7°45	23°14	22°40	15°21	8°26
T 25	20 12 55	2°35'30	12°25	1°58	18°11	2°48	24°21	10°35	12°58	8°51	7°44	23°13	22°37	15°28	8°27
W26	20 16 52	3°32'50	27° 9	4° 4	18°58	3°29	24°32	10°38	13° 1	8°51	7°43	23°12	22°33	15°34	8°28
T 27	20 20 49	4°30'10	11°40	6°10	19°47	4° 9	24°42	10°41	13° 3	8°50	7°41	23°10	22°30	15°41	8°29
F 28	20 24 45	5°27'31	25°54	8°15	20°36	4°49	24°52	10°44	13° 6	8°50	7°40	23°10	22°27	15°48	8°29
S 29	20 28 42	6°24'52	9°14	10°19	21°26	5°29	25° 3	10°46	13° 8	8°49	7°38	23°D10	22°24	15°55	8°30
S 30	20 32 38	7°22'14	23°23	12°21	22°17	6°10	25°13	10°49	13°10	8°49	7°37	23°10	22°21	16° 1	8°31
M31	20 36 35	8°19'37	6°39	14°22	23°11	6°50	25°24	10°51	13°13	8°48	7°36	23°11	22°17	16° 8	8°32

Delta T = 85.11 sec.

AUGUST 2028

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 40 31	9°17'00	19°37	16°22	24°11	7°30	25°34	10°53	13°15	8°R47	7°R34	23°12	22°14	16°15	8°32
W 2	20 44 28	10°14'23	2°21	18°20	24°53	8°10	25°45	10°56	13°17	8°Y47	7°33	23°14	22°11	16°21	8°33
T 3	20 48 24	11°11'48	14°51	20°17	25°46	8°49	25°56	10°58	13°20	8°46	7°32	23°14	22° 8	16°28	8°33
F 4	20 52 21	12° 9'13	27°10	22°12	26°40	9°29	26° 7	11° 0	13°22	8°45	7°30	23°R15	22° 5	16°35	8°34
S 5	20 56 18	13° 6'39	9°20	24° 5	27°34	10° 9	26°18	11° 2	13°24	8°45	7°29	23°14	22° 2	16°41	8°34
S 6	21 0 14	14° 4'06	21°22	25°57	28°29	10°49	26°29	11° 4	13°26	8°44	7°27	23°12	21°58	16°48	8°34
M 7	21 4 11	15° 1'34	3°18	27°48	29°24	11°28	26°40	11° 5	13°28	8°43	7°26	23° 9	21°55	16°55	8°35
T 8	21 8 7	15°59'03	15°11	29°37	0°20	12° 8	26°51	11° 7	13°30	8°42	7°25	23° 6	21°52	17° 2	8°35
W 9	21 12 4	16°56'33	27° 2	1°12	1°16	12°48	27° 2	11° 8	13°32	8°41	7°23	23° 2	21°49	17° 8	8°35
T 10	21 16 0	17°54'04	8°Y53	3°10	2°13	13°27	27°13	11°10	13°34	8°40	7°22	22°58	21°46	17°15	8°35
F 11	21 19 57	18°51'37	20°49	4°54	3°10	14° 7	27°25	11°11	13°36	8°39	7°20	22°55	21°43	17°22	8°35
S 12	21 23 53	19°49'11	2°53	6°37	4° 8	14°46	27°36	11°12	13°38	8°39	7°19	22°52	21°39	17°28	8°R35
S 13	21 27 50	20°46'46	15° 9	8°18	5° 6	15°25	27°47	11°14	13°40	8°38	7°18	22°51	21°36	17°35	8°35
M14	21 31 47	21°44'24	27°41	9°58	6° 5	16° 5	27°59	11°15	13°42	8°37	7°16	22°D51	21°33	17°42	8°35
T 15	21 35 43	22°42'02	10°13	11°36	7° 4	16°44	28°11	11°15	13°43	8°36	7°15	22°52	21°30	17°48	8°35
W16	21 39 40	23°39'42	23°49	13°12	8° 3	17°23	28°22	11°16	13°45	8°35	7°14	22°54	21°27	17°55	8°35
T 17	21 43 36	24°37'24	7°32	14°48	9° 3	18° 2	28°34	11°17	13°47	8°33	7°12	22°55	21°23	18° 2	8°35
F 18	21 47 33	25°35'07	21°41	16°21	10° 3	18°41	28°46	11°18	13°48	8°32	7°11	22°R56	21°20	18° 9	8°34
S 19	21 51 29	26°32'52	6°16	17°54	11° 3	19°20	28°58	11°18	13°50	8°31	7°10	22°55	21°17	18°15	8°34
S 20	21 55 26	27°30'38	21°12	19°24	12° 4	19°59	29° 9	11°18	13°52	8°30	7° 9	22°53	21°14	18°22	8°33
M21	21 59 22	28°28'26	6°12	20°54	13° 5	20°38	29°21	11°19	13°53	8°29	7° 7	22°49	21°11	18°29	8°33
T 22	22 3 19	29°26'14	21°31	22°21	14° 7	21°17	29°33	11°19	13°54	8°28	7° 6	22°44	21° 8	18°35	8°32
W23	22 7 16	0°12'40	6°46	23°48	15° 8	21°56	29°45	11°R19	13°56	8°27	7° 5	22°39	21° 4	18°42	8°32
T 24	22 11 12	1°21'56	21°24	25°12	16°10	22°35	29°57	11°19	13°57	8°25	7° 4	22°34	21° 1	18°49	8°31
F 25	22 15 9	2°19'48	5°15	26°36	17°13	23°13	0°10	11°19	13°58	8°24	7° 2	22°30	20°58	18°55	8°30
S 26	22 19 5	3°17'42	19°52	27°57	18°15	23°52	0°22	11°18	14° 0	8°23	7° 1	22°27	20°55	19° 2	8°30
S 27	22 23 2	4°15'37	3°26	29°17	19°18	24°31	0°34	11°18	14° 1	8°21	7° 0	22°D26	20°52	19° 9	8°29
M28	22 26 58	5°13'34	16°36	0°35	20°22	25° 9	0°46	11°17	14° 2	8°20	6°59	22°27	20°49	19°16	8°28
T 29	22 30 55	6°11'31	29°25	1°52	21°25	25°47	0°58	11°17	14° 3	8°19	6°57	22°28	20°45	19°22	8°27
W30	22 34 51	7° 9'30	11°36	3° 7	22°29	26°26	1°11	11°16	14° 4	8°17	6°56	22°29	20°42	19°29	8°26
T 31	22 38 48	8°17'31	24°13	4°19	23°33	27° 4	1°23	11°15	14° 5	8°Y16	6°55	22°R30	20°39	19°36	8°25

Delta T = 85.25 sec.

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SWISS EPHEMERIS for the year 2028

SEPTEMBER 2028

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	22 42 45	9 ^h 5'32	6 ^h 19	5 ^h 30	24 ^h 37	27 ^h 42	1 ^h 36	11 ^h R14	14 ^h II 6	8 ^h R15	6 ^h R54	22 ^h R29	20 ^h 36	19 ^h 42	8 ^h R24
S 2	22 46 41	10 ^h 3'36	18 ^h 19	6 ^h 39	25 ^h 42	28 ^h 21	1 ^h 48	11 ^h 13	14 ^h 7	8 ^h 13	6 ^h 53	22 ^h 26	20 ^h 33	19 ^h 49	8 ^h 23
S 3	22 50 38	11 ^h 1'40	0 ^h 13	7 ^h 46	26 ^h 46	28 ^h 59	2 ^h 0	11 ^h 12	14 ^h 8	8 ^h 12	6 ^h 52	22 ^h 20	20 ^h 29	19 ^h 56	8 ^h 22
M 4	22 54 34	11 ^h 59'47	12 ^h 6	8 ^h 51	27 ^h 51	29 ^h 37	2 ^h 13	11 ^h 11	14 ^h 9	8 ^h 10	6 ^h 51	22 ^h 13	20 ^h 26	20 ^h 2	8 ^h 20
T 5	22 58 31	12 ^h 57'55	23 ^h 57	9 ^h 53	28 ^h 56	0 ^h 15	2 ^h 26	11 ^h 10	14 ^h 9	8 ^h 9	6 ^h 50	22 ^h 4	20 ^h 23	20 ^h 9	8 ^h 19
W 6	23 2 27	13 ^h 56'04	5 ^h 49	10 ^h 53	0 ^h 2	0 ^h 53	2 ^h 38	11 ^h 8	14 ^h 10	8 ^h 7	6 ^h 49	21 ^h 54	20 ^h 20	20 ^h 16	8 ^h 18
T 7	23 6 24	14 ^h 54'16	17 ^h 44	11 ^h 50	1 ^h 8	1 ^h 31	2 ^h 51	11 ^h 7	14 ^h 11	8 ^h 6	6 ^h 48	21 ^h 44	20 ^h 17	20 ^h 23	8 ^h 16
F 8	23 10 20	15 ^h 52'29	29 ^h 43	12 ^h 45	2 ^h 14	2 ^h 9	3 ^h 3	11 ^h 5	14 ^h 11	8 ^h 4	6 ^h 47	21 ^h 35	20 ^h 14	20 ^h 29	8 ^h 15
S 9	23 14 17	16 ^h 50'45	11 ^h 49	13 ^h 36	3 ^h 20	2 ^h 46	3 ^h 16	11 ^h 4	14 ^h 12	8 ^h 3	6 ^h 46	21 ^h 28	20 ^h 10	20 ^h 36	8 ^h 13
S 10	23 18 14	17 ^h 49'02	24 ^h 5	14 ^h 25	4 ^h 26	3 ^h 24	3 ^h 29	11 ^h 2	14 ^h 12	8 ^h 1	6 ^h 45	21 ^h 23	20 ^h 7	20 ^h 43	8 ^h 12
M 11	23 22 10	18 ^h 47'22	6 ^h 35	15 ^h 10	5 ^h 33	4 ^h 2	3 ^h 41	11 ^h 0	14 ^h 13	8 ^h 0	6 ^h 44	21 ^h 20	20 ^h 4	20 ^h 49	8 ^h 10
T 12	23 26 7	19 ^h 45'44	19 ^h 23	15 ^h 51	6 ^h 39	4 ^h 40	3 ^h 54	10 ^h 58	14 ^h 13	7 ^h 58	6 ^h 43	21 ^h D19	20 ^h 1	20 ^h 56	8 ^h 9
W 13	23 30 3	20 ^h 44'08	2 ^h 32	16 ^h 28	7 ^h 46	5 ^h 17	4 ^h 7	10 ^h 56	14 ^h 14	7 ^h 57	6 ^h 42	21 ^h 20	19 ^h 58	21 ^h 3	8 ^h 7
T 14	23 34 0	21 ^h 42'34	16 ^h 6	17 ^h 2	8 ^h 53	5 ^h 55	4 ^h 20	10 ^h 53	14 ^h 14	7 ^h 55	6 ^h 41	21 ^h R20	19 ^h 55	21 ^h 10	8 ^h 5
F 15	23 37 56	22 ^h 41'02	0 ^h 7	17 ^h 31	10 ^h 1	6 ^h 32	4 ^h 33	10 ^h 51	14 ^h 14	7 ^h 54	6 ^h 40	21 ^h 20	19 ^h 51	21 ^h 16	8 ^h 4
S 16	23 41 53	23 ^h 39'32	14 ^h 35	17 ^h 55	11 ^h 8	7 ^h 9	4 ^h 45	10 ^h 49	14 ^h 14	7 ^h 52	6 ^h 39	21 ^h 18	19 ^h 48	21 ^h 23	8 ^h 2
S 17	23 45 49	24 ^h 38'04	29 ^h 28	18 ^h 13	12 ^h 16	7 ^h 47	4 ^h 58	10 ^h 46	14 ^h 14	7 ^h 50	6 ^h 38	21 ^h 14	19 ^h 45	21 ^h 30	8 ^h 0
M 18	23 49 46	25 ^h 36'39	14 ^h 38	18 ^h 27	13 ^h 24	8 ^h 24	5 ^h 11	10 ^h 44	14 ^h 14	7 ^h 49	6 ^h 37	21 ^h 7	19 ^h 42	21 ^h 36	7 ^h 58
T 19	23 53 43	26 ^h 35'15	29 ^h 56	18 ^h 34	14 ^h 32	9 ^h 1	5 ^h 24	10 ^h 41	14 ^h R14	7 ^h 47	6 ^h 37	20 ^h 58	19 ^h 39	21 ^h 43	7 ^h 56
W 20	23 57 39	27 ^h 33'53	15 ^h 12	18 ^h R35	15 ^h 40	9 ^h 38	5 ^h 37	10 ^h 38	14 ^h 14	7 ^h 46	6 ^h 36	20 ^h 48	19 ^h 35	21 ^h 50	7 ^h 54
T 21	0 1 36	28 ^h 32'33	0 ^h 13	18 ^h 30	16 ^h 48	10 ^h 15	5 ^h 50	10 ^h 35	14 ^h 14	7 ^h 44	6 ^h 35	20 ^h 38	19 ^h 32	21 ^h 56	7 ^h 52
F 22	0 5 32	29 ^h 31'15	14 ^h 52	18 ^h 18	17 ^h 57	10 ^h 52	6 ^h 3	10 ^h 32	14 ^h 14	7 ^h 42	6 ^h 34	20 ^h 30	19 ^h 29	22 ^h 3	7 ^h 50
S 23	0 9 29	0 ^h 29'59	29 ^h 3	17 ^h 58	19 ^h 6	11 ^h 29	6 ^h 16	10 ^h 29	14 ^h 14	7 ^h 41	6 ^h 34	20 ^h 24	19 ^h 26	22 ^h 10	7 ^h 48
S 24	0 13 25	1 ^h 28'44	12 ^h 44	17 ^h 32	20 ^h 14	12 ^h 6	6 ^h 29	10 ^h 26	14 ^h 14	7 ^h 39	6 ^h 33	20 ^h 20	19 ^h 23	22 ^h 17	7 ^h 46
M 25	0 17 22	2 ^h 27'31	25 ^h 56	16 ^h 58	21 ^h 23	12 ^h 43	6 ^h 42	10 ^h 23	14 ^h 14	7 ^h 37	6 ^h 32	20 ^h 19	19 ^h 20	22 ^h 23	7 ^h 43
T 26	0 21 18	3 ^h 26'20	8 ^h 43	16 ^h 17	22 ^h 33	13 ^h 20	6 ^h 55	10 ^h 20	14 ^h 13	7 ^h 36	6 ^h 32	20 ^h D19	19 ^h 16	22 ^h 30	7 ^h 41
W 27	0 25 15	4 ^h 25'10	21 ^h 10	15 ^h 29	23 ^h 42	13 ^h 56	7 ^h 8	10 ^h 16	14 ^h 13	7 ^h 34	6 ^h 31	20 ^h R19	19 ^h 13	22 ^h 37	7 ^h 39
T 28	0 29 12	5 ^h 24'03	3 ^h 21	14 ^h 35	24 ^h 51	14 ^h 33	7 ^h 21	10 ^h 13	14 ^h 12	7 ^h 32	6 ^h 31	20 ^h 18	19 ^h 10	22 ^h 43	7 ^h 37
F 29	0 33 8	6 ^h 22'56	15 ^h 22	13 ^h 36	26 ^h 1	15 ^h 9	7 ^h 33	10 ^h 9	14 ^h 12	7 ^h 31	6 ^h 30	20 ^h 16	19 ^h 7	22 ^h 50	7 ^h 34
S 30	0 37 5	7 ^h 21'52	27 ^h 15	12 ^h 32	27 ^h 11	15 ^h 46	7 ^h 46	10 ^h 6	14 ^h II 11	7 ^h 29	6 ^h 29	20 ^h 11	19 ^h 4	22 ^h 57	7 ^h 32

Delta T = 85.38 sec.

OCTOBER 2028

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	0 41 1	8♂20'50	9♂ 6	11°R25	28♂20	16♂22	7♂59	10°R 2	14°R11	7°R27	6°R29	20°R 3	19♂ 0	23♂ 4	7°R30
M 2	0 44 58	9°19'49	20°57	10♂16	29°30	16°59	8°12	9♂58	14♂10	7♂26	6♂28	19♂52	18°57	23°10	7♂27
T 3	0 48 54	10°18'50	2♂Y50	9° 8	0♂41	17°35	8°25	9°55	14° 9	7°24	6°28	19°39	18°54	23°17	7°25
W 4	0 52 51	11°17'53	14°46	8° 2	1°51	18°11	8°38	9°51	14° 9	7°22	6°28	19°25	18°51	23°24	7°22
T 5	0 56 47	12°16'59	26°47	6°59	3° 1	18°47	8°51	9°47	14° 8	7°21	6°27	19°11	18°48	23°30	7°20
F 6	1 0 44	13°16'06	8♂55	6° 3	4°12	19°23	9° 4	9°43	14° 7	7°19	6°27	18°58	18°45	23°37	7°17
S 7	1 4 40	14°15'16	21° 9	5°13	5°22	19°59	9°17	9°39	14° 6	7°17	6°26	18°47	18°41	23°44	7°15
S 8	1 8 37	15°14'28	3♂33	4°32	6°33	20°35	9°30	9°34	14° 5	7°16	6°26	18°39	18°38	23°50	7°12
M 9	1 12 34	16°13'42	16° 8	4° 1	7°44	21°11	9°43	9°30	14° 4	7°14	6°26	18°34	18°35	23°57	7° 9
T 10	1 16 30	17°12'59	28°57	3°40	8°55	21°46	9°56	9°26	14° 3	7°12	6°26	18°31	18°32	24° 4	7° 7
W 11	1 20 27	18°12'17	12♂ 3	3°D30	10° 6	22°22	10° 9	9°22	14° 2	7°11	6°25	18°31	18°29	24°11	7° 4
T 12	1 24 23	19°11'39	25°30	3°31	11°17	22°58	10°22	9°17	14° 1	7° 9	6°25	18°31	18°26	24°17	7° 1
F 13	1 28 20	20°11'02	9♂20	3°42	12°29	23°33	10°35	9°13	14° 0	7° 7	6°25	18°30	18°22	24°24	6°59
S 14	1 32 16	21°10'28	23°34	4° 4	13°40	24° 9	10°48	9° 9	13°59	7° 6	6°25	18°27	18°19	24°31	6°56
S 15	1 36 13	22° 9'56	8♂11	4°36	14°52	24°44	11° 1	9° 4	13°57	7° 4	6°25	18°22	18°16	24°37	6°53
M 16	1 40 9	23° 9'26	23° 8	5°16	16° 3	25°19	11°14	9° 0	13°56	7° 3	6°25	18°14	18°13	24°44	6°50
T 17	1 44 6	24° 8'59	8♂15	6° 6	17°15	25°54	11°26	8°55	13°55	7° 1	6°24	18° 4	18°10	24°51	6°48
W 18	1 48 3	25° 8'33	23°25	7° 3	18°27	26°30	11°39	8°50	13°53	7° 0	6°24	17°53	18° 6	24°58	6°45
T 19	1 51 59	26° 8'10	8♂25	8° 6	19°39	27° 5	11°52	8°46	13°52	6°58	6°D24	17°41	18° 3	25° 4	6°42
F 20	1 55 56	27° 7'48	23° 7	9°16	20°51	27°39	12° 5	8°41	13°51	6°56	6°24	17°31	18° 0	25°11	6°39
S 21	1 59 52	28° 7'29	7♂23	10°31	22° 3	28°14	12°18	8°36	13°49	6°55	6°24	17°24	17°57	25°18	6°36
S 22	2 3 49	29° 7'11	21°10	11°51	23°16	28°49	12°30	8°32	13°47	6°53	6°25	17°19	17°54	25°24	6°33
M 23	2 7 45	0♂ 6'55	4♂28	13°14	24°28	29°24	12°43	8°27	13°46	6°52	6°25	17°17	17°51	25°31	6°31
T 24	2 11 42	1° 6'41	17°19	14°41	25°40	29°58	12°56	8°22	13°44	6°50	6°25	17°D16	17°47	25°38	6°28
W 25	2 15 38	2° 6'29	29°49	16°10	26°53	0♂33	13° 8	8°17	13°43	6°49	6°25	17°R16	17°44	25°45	6°25
T 26	2 19 35	3° 6'18	12♂ 0	17°42	28° 5	1° 7	13°21	8°13	13°41	6°47	6°25	17°16	17°41	25°51	6°22
F 27	2 23 32	4° 6'09	24° 0	19°15	29°18	1°41	13°34	8° 8	13°39	6°46	6°25	17°14	17°38	25°58	6°19
S 28	2 27 28	5° 6'01	5♂53	20°50	0♂31	2°16	13°46	8° 3	13°37	6°45	6°26	17°10	17°35	26° 5	6°16
S 29	2 31 25	6° 5'55	17°43	22°27	1°44	2°50	13°59	7°58	13°35	6°43	6°26	17° 3	17°32	26°11	6°13
M 30	2 35 21	7° 5'51	29°34	24° 4	2°56	3°24	14°11	7°53	13°34	6°42	6°26	16°54	17°28	26°18	6°10
T 31	2 39 18	8♂ 5'49	11°Y31	25♂41	4♂ 9	3♂58	14♂24	7♂48	13♂32	6°Y40	6♂26	16♂42	17♂25	26♂25	6♂ 8

SWISS EPHEMERIS for the year 2028

NOVEMBER 2028

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	2 43 14	9 ^h 5'48"	23 ^h 33'	27 ^h 20'	5 ^h 22'	4 ^h 31'	14 ^h 36'	7 ^h 44'	13 ^h 30'	6 ^h 39'	6 ^h 27'	16 ^h 29'	17 ^h 22'	26 ^h 32'	6 ^h 5
T 2	2 47 11	10 ^h 5'49"	5 ^h 44'	28 ^h 58'	6 ^h 36'	5 ^h 5	14 ^h 48'	7 ^h 39'	13 ^h 28'	6 ^h 38'	6 ^h 27'	16 ^h 31'	17 ^h 19'	26 ^h 38'	6 ^h 2
F 3	2 51 7	11 ^h 5'52"	18 ^h 4	0 ^h 37'	7 ^h 49'	5 ^h 39'	15 ^h 1	7 ^h 34'	13 ^h 26'	6 ^h 36'	6 ^h 28'	16 ^h 5	17 ^h 16'	26 ^h 45'	5 ^h 59
S 4	2 55 4	12 ^h 5'57"	0 ^h 33'	2 ^h 16'	9 ^h 2	6 ^h 12'	15 ^h 13'	7 ^h 29'	13 ^h 24'	6 ^h 35'	6 ^h 28'	15 ^h 55'	17 ^h 12'	26 ^h 52'	5 ^h 56
S 5	2 59 1	13 ^h 6'04"	13 ^h 11'	3 ^h 54'	10 ^h 15'	6 ^h 46'	15 ^h 25'	7 ^h 24'	13 ^h 22'	6 ^h 34'	6 ^h 28'	15 ^h 48'	17 ^h 9'	26 ^h 58'	5 ^h 53
M 6	3 2 57	14 ^h 6'13"	26 ^h 1	5 ^h 33'	11 ^h 29'	7 ^h 19'	15 ^h 37'	7 ^h 19'	13 ^h 19'	6 ^h 33'	6 ^h 29'	15 ^h 43'	17 ^h 6'	27 ^h 5	5 ^h 50
T 7	3 6 54	15 ^h 6'24"	9 ^h 2	7 ^h 11'	12 ^h 42'	7 ^h 52'	15 ^h 49'	7 ^h 15'	13 ^h 17'	6 ^h 31'	6 ^h 29'	15 ^h 41'	17 ^h 3	27 ^h 12'	5 ^h 48
W 8	3 10 50	16 ^h 6'37"	22 ^h 16'	8 ^h 50'	13 ^h 56'	8 ^h 25'	16 ^h 2	7 ^h 10'	13 ^h 15'	6 ^h 30'	6 ^h 30'	15 ^h 41'	17 ^h 0	27 ^h 19'	5 ^h 45
T 9	3 14 47	17 ^h 6'52"	5 ^h 45'	10 ^h 28'	15 ^h 9'	8 ^h 58'	16 ^h 14'	7 ^h 5	13 ^h 13'	6 ^h 29'	6 ^h 31'	15 ^h 42'	16 ^h 57'	27 ^h 25'	5 ^h 42
F 10	3 18 43	18 ^h 7'08"	19 ^h 30'	12 ^h 6'	16 ^h 23'	9 ^h 31'	16 ^h 26'	7 ^h 1	13 ^h 11'	6 ^h 28'	6 ^h 31'	15 ^h 43'	16 ^h 53'	27 ^h 32'	5 ^h 39
S 11	3 22 40	19 ^h 7'27"	3 ^h 33'	13 ^h 43'	17 ^h 37'	10 ^h 4	16 ^h 38'	6 ^h 56'	13 ^h 9'	6 ^h 27'	6 ^h 32'	15 ^h 42'	16 ^h 50'	27 ^h 39'	5 ^h 36
S 12	3 26 36	20 ^h 7'48"	17 ^h 53'	15 ^h 21'	18 ^h 51'	10 ^h 36'	16 ^h 49'	6 ^h 51'	13 ^h 6'	6 ^h 26'	6 ^h 32'	15 ^h 38'	16 ^h 47'	27 ^h 45'	5 ^h 33
M13	3 30 33	21 ^h 8'11"	2 ^h 27'	16 ^h 58'	20 ^h 4	11 ^h 9'	17 ^h 1	6 ^h 47'	13 ^h 4	6 ^h 24'	6 ^h 33'	15 ^h 33'	16 ^h 44'	27 ^h 52'	5 ^h 31
T 14	3 34 30	22 ^h 8'36"	17 ^h 11'	18 ^h 34'	21 ^h 18'	11 ^h 41'	17 ^h 13'	6 ^h 42'	13 ^h 2	6 ^h 23'	6 ^h 34'	15 ^h 26'	16 ^h 41'	27 ^h 59'	5 ^h 28
W15	3 38 26	23 ^h 9'02"	1 ^h 58'	20 ^h 11'	22 ^h 32'	12 ^h 14'	17 ^h 25'	6 ^h 37'	12 ^h 59'	6 ^h 22'	6 ^h 35'	15 ^h 17'	16 ^h 37'	28 ^h 6'	5 ^h 25
T 16	3 42 23	24 ^h 9'31"	16 ^h 40'	21 ^h 47'	23 ^h 46'	12 ^h 46'	17 ^h 36'	6 ^h 33'	12 ^h 57'	6 ^h 21'	6 ^h 35'	15 ^h 9'	16 ^h 34'	28 ^h 12'	5 ^h 23
F 17	3 46 19	25 ^h 10'01"	1 ^h 8'	23 ^h 23'	25 ^h 0	13 ^h 18'	17 ^h 48'	6 ^h 28'	12 ^h 55'	6 ^h 20'	6 ^h 36'	15 ^h 1	16 ^h 31'	28 ^h 19'	5 ^h 20
S 18	3 50 16	26 ^h 10'32"	15 ^h 17'	24 ^h 59'	26 ^h 14'	13 ^h 50'	18 ^h 0	6 ^h 24'	12 ^h 52'	6 ^h 19'	6 ^h 37'	14 ^h 56'	16 ^h 28'	28 ^h 26'	5 ^h 17
S 19	3 54 12	27 ^h 11'06"	29 ^h 3	26 ^h 34'	27 ^h 29'	14 ^h 21'	18 ^h 11'	6 ^h 20'	12 ^h 50'	6 ^h 19'	6 ^h 38'	14 ^h 52'	16 ^h 25'	28 ^h 32'	5 ^h 15
M20	3 58 9	28 ^h 11'40"	12 ^h 22'	28 ^h 9'	28 ^h 43'	14 ^h 53'	18 ^h 22'	6 ^h 15'	12 ^h 47'	6 ^h 18'	6 ^h 39'	14 ^h 51'	16 ^h 22'	28 ^h 39'	5 ^h 12
T 21	4 2 5	29 ^h 12'16"	25 ^h 17'	29 ^h 44'	29 ^h 57'	15 ^h 24'	18 ^h 34'	6 ^h 11'	12 ^h 45'	6 ^h 17'	6 ^h 40'	14 ^h 51'	16 ^h 18'	28 ^h 46'	5 ^h 9
W22	4 6 2	0 ^h 12'53"	7 ^h 50'	1 ^h 19'	1 ^h 11'	15 ^h 56'	18 ^h 45'	6 ^h 7	12 ^h 43'	6 ^h 16'	6 ^h 41'	14 ^h 53'	16 ^h 15'	28 ^h 53'	5 ^h 7
T 23	4 9 59	1 ^h 13'31"	20 ^h 5	2 ^h 54'	2 ^h 26'	16 ^h 27'	18 ^h 56'	6 ^h 3	12 ^h 40'	6 ^h 15'	6 ^h 41'	14 ^h 54'	16 ^h 12'	28 ^h 59'	5 ^h 4
F 24	4 13 55	2 ^h 14'10"	2 ^h 8'	4 ^h 28'	3 ^h 40'	16 ^h 58'	19 ^h 7'	5 ^h 59'	12 ^h 38'	6 ^h 14'	6 ^h 42'	14 ^h 55'	16 ^h 9'	29 ^h 6'	5 ^h 2
S 25	4 17 52	3 ^h 14'50"	14 ^h 2	6 ^h 2	4 ^h 54'	17 ^h 29'	19 ^h 18'	5 ^h 55'	12 ^h 35'	6 ^h 14'	6 ^h 43'	14 ^h 54'	16 ^h 6'	29 ^h 13'	4 ^h 59
S 26	4 21 48	4 ^h 15'31"	25 ^h 53'	7 ^h 36'	6 ^h 9	18 ^h 0	19 ^h 29'	5 ^h 51'	12 ^h 33'	6 ^h 13'	6 ^h 44'	14 ^h 51'	16 ^h 3	29 ^h 19'	4 ^h 57
M27	4 25 45	5 ^h 16'14"	7 ^h 46'	9 ^h 10'	7 ^h 23'	18 ^h 30'	19 ^h 40'	5 ^h 47'	12 ^h 30'	6 ^h 12'	6 ^h 45'	14 ^h 47'	15 ^h 59'	29 ^h 26'	4 ^h 54
T 28	4 29 41	6 ^h 16'57"	19 ^h 45'	10 ^h 44'	8 ^h 38'	19 ^h 1	19 ^h 51'	5 ^h 43'	12 ^h 28'	6 ^h 12'	6 ^h 47'	14 ^h 41'	15 ^h 56'	29 ^h 33'	4 ^h 52
W29	4 33 38	7 ^h 17'42"	1 ^h 53'	12 ^h 18'	9 ^h 52'	19 ^h 31'	20 ^h 2	5 ^h 39'	12 ^h 25'	6 ^h 11'	6 ^h 48'	14 ^h 35'	15 ^h 53'	29 ^h 40'	4 ^h 50
T 30	4 37 34	8 ^h 18'28"	14 ^h 13'	13 ^h 51'	11 ^h 7	20 ^h 1	20 ^h 12'	5 ^h 36'	12 ^h 23'	6 ^h 10'	6 ^h 49'	14 ^h 38'	15 ^h 50'	29 ^h 46'	4 ^h 47

Delta T = 85.66 sec.

DECEMBER 2028

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	4 41 31	9♂19'15	26♂45	15♂25	12♂21	20♂31	20♂23	5°R32	12°R20	6°R10	6♂50	14°R21	15♂47	29♂53	4°R45
S 2	4 45 28	10°20'03	9♂31	16°58	13°36	21° 1	20°33	5♂28	12♂17	6♂ 9	6°51	14♂16	15°43	0♂ 0	4♂43
S 3	4 49 24	11°20'52	22°30	18°32	14°51	21°30	20°43	5°25	12°15	6° 9	6°52	14°12	15°40	0° 6	4°41
M 4	4 53 21	12°21'42	5♂41	20° 5	16° 5	22° 0	20°54	5°22	12°12	6° 8	6°53	14°10	15°37	0°13	4°39
T 5	4 57 17	13°22'34	19° 5	21°38	17°20	22°29	21° 4	5°18	12°10	6° 8	6°55	14°D10	15°34	0°20	4°36
W 6	5 1 14	14°23'27	2♂39	23°12	18°35	22°58	21°14	5°15	12° 7	6° 8	6°56	14°11	15°31	0°27	4°34
T 7	5 5 10	15°24'21	16°24	24°45	19°50	23°27	21°24	5°12	12° 5	6° 7	6°57	14°13	15°28	0°33	4°32
F 8	5 9 7	16°25'16	0♂18	26°18	21° 4	23°56	21°34	5° 9	12° 2	6° 7	6°59	14°14	15°24	0°40	4°30
S 9	5 13 3	17°26'12	14°21	27°51	22°19	24°24	21°44	5° 6	12° 0	6° 7	7° 0	14°R15	15°21	0°47	4°28
S 10	5 17 0	18°27'10	28°32	29°24	23°34	24°53	21°53	5° 3	11°57	6° 6	7° 1	14°15	15°18	0°54	4°27
M11	5 20 57	19°28'09	12♂47	0♂57	24°49	25°21	22° 3	5° 0	11°55	6° 6	7° 3	14°13	15°15	1° 0	4°25
T 12	5 24 53	20°29'09	27° 6	2°30	26° 4	25°49	22°13	4°58	11°52	6° 6	7° 4	14°11	15°12	1° 7	4°23
W13	5 28 50	21°30'10	11♂24	4° 3	27°19	26°17	22°22	4°55	11°50	6° 6	7° 5	14° 7	15° 9	1°14	4°21
T 14	5 32 46	22°31'13	25°36	5°36	28°34	26°44	22°31	4°53	11°47	6° 6	7° 7	14° 4	15° 5	1°20	4°19
F 15	5 36 43	23°32'16	9♂39	7° 8	29°49	27°12	22°40	4°50	11°45	6° 6	7° 8	14° 1	15° 2	1°27	4°18
S 16	5 40 39	24°33'20	23°27	8°40	1♂ 4	27°39	22°49	4°48	11°42	6° 6	7°10	13°59	14°59	1°34	4°16
S 17	5 44 36	25°34'25	6♂58	10°12	2°19	28° 5	22°58	4°46	11°40	6°D 6	7°11	13°58	14°56	1°41	4°15
M18	5 48 33	26°35'30	20° 9	11°43	3°34	28°32	23° 7	4°44	11°37	6° 6	7°13	13°D58	14°53	1°47	4°13
T 19	5 52 29	27°36'36	3♂ 0	13°14	4°49	28°59	23°16	4°42	11°35	6° 6	7°14	13°59	14°49	1°54	4°12
W20	5 56 26	28°37'42	15°34	14°44	6° 4	29°25	23°24	4°40	11°33	6° 6	7°16	14° 0	14°46	2° 1	4°10
T 21	6 0 22	29°38'48	27°51	16°14	7°19	29°51	23°33	4°38	11°30	6° 6	7°17	14° 2	14°43	2° 7	4° 9
F 22	6 4 19	0♂39'55	9♂55	17°42	8°34	0♂16	23°41	4°37	11°28	6° 6	7°19	14° 3	14°40	2°14	4° 8
S 23	6 8 15	1°41'02	21°51	19° 9	9°49	0°42	23°49	4°35	11°25	6° 6	7°20	14° 4	14°37	2°21	4° 6
S 24	6 12 12	2°42'09	3♂43	20°35	11° 4	1° 7	23°58	4°34	11°23	6° 6	7°22	14°R 4	14°34	2°28	4° 5
M25	6 16 8	3°43'16	15°37	21°59	12°19	1°32	24° 6	4°32	11°21	6° 7	7°24	14° 3	14°30	2°34	4° 4
T 26	6 20 5	4°44'23	27°36	23°20	13°34	1°56	24°13	4°31	11°19	6° 7	7°25	14° 3	14°27	2°41	4° 3
W27	6 24 2	5°45'31	9♂45	24°40	14°49	2°21	24°21	4°30	11°16	6° 7	7°27	14° 2	14°24	2°48	4° 2
T 28	6 27 58	6°46'38	22° 8	25°56	16° 4	2°45	24°29	4°29	11°14	6° 8	7°29	14° 1	14°21	2°55	4° 1
F 29	6 31 55	7°47'46	4♂48	27° 9	17°20	3° 9	24°36	4°28	11°12	6° 8	7°30	14° 0	14°18	3° 1	4° 0
S 30	6 35 51	8°48'53	17°47	28°18	18°35	3°32	24°43	4°27	11°10	6° 9	7°32	13°59	14°15	3° 8	3°59
S 31	6 39 48	9♂50'01	1♂ 4	29♂23	19♂50	3♂55	24♂51	4♂27	11♂ 7	6♂ 9	7♂34	13♂59	14♂11	3♂15	3♂58