

SWISS EPHEMERIS for the year 2428

JANUARY 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	6 41 14	9°35'03"	15°11'54"	5°32'27"	20°38'34"	14°11'2	7°R44	13°1'1	21°11'14	18°R21	28°R16	5°R57	7°Ω10	8°8'9	28°R40
S 2	6 45 11	11° 0'08"	28°16'	7° 2'	21° 6'	14°39'	7°II38	13° 8'	21°16'	18°11'21	28°15'	5°Ω53	7° 6'	8°16'	28°II36
M 3	6 49 8	12° 1'13"	10°55'0	8°36'	21°36'	15°16'	7°33'	13°14'	21°17'	18°21'	28°13'	5°50'	7° 3'	8°23'	28°32'
T 4	6 53 4	13° 2'19"	23°37'	10°11'	22° 4'	15°53'	7°27'	13°21'	21°19'	18°20'	28°12'	5°48'	7° 0'	8°29'	28°29'
W 5	6 57 1	14° 3'25"	6°Ω36	11°46'	22°30'	16°30'	7°22'	13°27'	21°21'	18°20'	28°11'	5°D48	6°57'	8°36'	28°25'
T 6	7 0 57	15° 4'31"	19°48'	13°22'	22°55'	17° 7'	7°17'	13°34'	21°22'	18°19'	28°10'	5°48'	6°54'	8°43'	28°21'
F 7	7 4 54	16° 5'38"	3°11'2	14°57'	23°18'	17°44'	7°12'	13°40'	21°24'	18°19'	28° 8'	5°49'	6°51'	8°50'	28°18'
S 8	7 8 50	17° 6'45"	16°47'	16°34'	23°39'	18°20'	7° 8'	13°47'	21°26'	18°18'	28° 7'	5°51'	6°47'	8°56'	28°14'
S 9	7 12 47	18° 7'52"	0°Ω35	18°10'	23°58'	18°57'	7° 3'	13°53'	21°28'	18°17'	28° 6'	5°52'	6°44'	9° 3'	28°11'
M10	7 16 43	19° 9'00"	14°33'	19°47'	24°15'	19°34'	6°59'	13°59'	21°30'	18°17'	28° 5'	5°R53	6°41'	9°10'	28° 7'
T 11	7 20 40	20°10'08"	28°42'	21°24'	24°30'	20°11'	6°55'	14° 5'	21°32'	18°16'	28° 3'	5°53'	6°38'	9°16'	28° 4'
W12	7 24 37	21°11'16"	12°11'59	23° 1'	24°42'	20°47'	6°51'	14°12'	21°34'	18°15'	28° 2'	5°52'	6°35'	9°23'	28° 0'
T 13	7 28 33	22°12'25"	27°21'	24°39'	24°53'	21°24'	6°47'	14°18'	21°36'	18°15'	28° 1'	5°50'	6°31'	9°30'	27°57'
F 14	7 32 30	23°13'34"	11°11'45	26°17'	25° 1'	22° 1'	6°44'	14°24'	21°38'	18°14'	28° 0'	5°49'	6°28'	9°37'	27°54'
S 15	7 36 26	24°14'43"	26° 6'	27°56'	25° 7'	22°37'	6°40'	14°30'	21°40'	18°13'	27°58'	5°47'	6°25'	9°43'	27°50'
S 16	7 40 23	25°15'52"	10°32'0	29°35'	25°11'	23°14'	6°37'	14°36'	21°43'	18°12'	27°57'	5°46'	6°22'	9°50'	27°47'
M17	7 44 19	26°17'01"	24°20'	18°14'	25°R12	23°50'	6°34'	14°42'	21°45'	18°11'	27°56'	5°45'	6°19'	9°57'	27°44'
T 18	7 48 16	27°18'10"	8°33'	2°54'	25°11'	24°27'	6°32'	14°48'	21°47'	18°10'	27°54'	5°D45	6°16'	10° 4'	27°41'
W19	7 52 12	28°19'18"	21°2'7	4°34'	25° 7'	25° 4'	6°29'	14°53'	21°50'	18° 9'	27°53'	5°45'	6°12'	10°10'	27°38'
T 20	7 56 9	29°20'26"	4°11'3	6°15'	25° 1'	25°40'	6°27'	14°59'	21°52'	18° 9'	27°52'	5°46'	6° 9'	10°17'	27°35'
F 21	8 0 6	0°Ω21'34	17°15'	7°56'	24°52'	26°16'	6°24'	15° 5'	21°54'	18° 8'	27°51'	5°47'	6° 6'	10°24'	27°32'
S 22	8 4 2	1°22'40"	29°41'	9°37'	24°41'	26°53'	6°23'	15°11'	21°57'	18° 7'	27°49'	5°47'	6° 3'	10°30'	27°29'
S 23	8 7 59	2°23'46"	11°11'52	11°18'	24°27'	27°29'	6°21'	15°16'	21°59'	18° 6'	27°48'	5°48'	6° 0'	10°37'	27°26'
M24	8 11 55	3°24'52"	23°52'	12°59'	24°11'	28° 6'	6°19'	15°22'	22° 2'	18° 4'	27°47'	5°48'	5°57'	10°44'	27°23'
T 25	8 15 52	4°25'56"	5°Ω46	14°41'	23°52'	28°42'	6°18'	15°27'	22° 4'	18° 3'	27°45'	5°R48	5°53'	10°51'	27°20'
W26	8 19 48	5°27'00"	17°39'	16°22'	23°31'	29°18'	6°17'	15°33'	22° 7'	18° 2'	27°44'	5°D48	5°50'	10°57'	27°17'
T 27	8 23 45	6°28'03"	29°34'	18° 3'	23° 8'	29°54'	6°16'	15°38'	22° 9'	18° 1'	27°43'	5°48'	5°47'	11° 4'	27°15'
F 28	8 27 41	7°29'06"	11°11'37	19°44'	22°42'	0°11'3	6°15'	15°43'	22°12'	18° 0'	27°42'	5°48'	5°44'	11°11'	27°12'
S 29	8 31 38	8°30'07"	23°52'	21°25'	22°15'	1° 7'	6°15'	15°49'	22°15'	17°59'	27°40'	5°48'	5°41'	11°17'	27° 9'
S 30	8 35 35	9°31'08"	6°Ω21	23° 5'	21°45'	1°43'	6°15'	15°54'	22°17'	17°58'	27°39'	5°49'	5°37'	11°24'	27° 7'
M31	8 39 31	10°32'08"	19°57'7	24°34'4	21°38'14	2°11'19	6°D14	15°11'59	22°11'20	17°56'	27°38'	5°Ω49	5°Ω34	11°31'	27°II 4

Delta T = 18m45s

FEBRUARY 2428

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	8 43 28	11°33'06"	2°Ω11	26°22'	20°R41	2°11'55	6°II15	16°1'4	22°11'23	17°R55	27°R36	5°R49	5°Ω31	11°338	27°R 2
W 2	8 47 24	12°34'04"	15°33'	27°58'	20°38'7	3°31'	6°15'	16° 9'	22°26'	17°11'54	27°35'	5°Ω49	5°28'	11°44'	27°II 0
T 3	8 51 21	13°35'02"	29°12'	29°33'	19°32'	4° 7'	6°15'	16°14'	22°29'	17°52'	27°34'	5°49'	5°25'	11°51'	26°58'
F 4	8 55 17	14°35'58"	13°11'4	1°11'5	18°56'	4°43'	6°16'	16°19'	22°31'	17°51'	27°33'	5°48'	5°22'	11°58'	26°55'
S 5	8 59 14	15°36'54"	27° 7'	2°34'	18°19'	5°19'	6°17'	16°23'	22°34'	17°50'	27°32'	5°46'	5°18'	12° 5'	26°53'
S 6	9 3 10	16°37'49"	11°11'18	4° 1'	17°42'	5°55'	6°18'	16°28'	22°37'	17°48'	27°30'	5°45'	5°15'	12°11'	26°51'
M 7	9 7 7	17°38'43"	25°31'	5°23'	17° 5'	6°30'	6°20'	16°33'	22°40'	17°47'	27°29'	5°44'	5°12'	12°18'	26°49'
T 8	9 11 4	18°39'37"	9°11'45	6°40'	16°28'	7° 6'	6°21'	16°37'	22°43'	17°46'	27°28'	5°43'	5° 9'	12°25'	26°47'
W 9	9 15 0	19°40'30"	23°57'	7°53'	15°51'	7°42'	6°23'	16°42'	22°46'	17°44'	27°27'	5°D43	5° 6'	12°31'	26°46'
T 10	9 18 57	20°41'22"	8°11'4	8°59'	15°15'	8°18'	6°25'	16°46'	22°49'	17°43'	27°26'	5°44'	5° 3'	12°38'	26°44'
F 11	9 22 53	21°42'14"	22° 5'	9°58'	14°40'	8°53'	6°27'	16°50'	22°52'	17°41'	27°24'	5°45'	4°59'	12°45'	26°42'
S 12	9 26 50	22°43'04"	5°33'57	10°50'	14° 6'	9°29'	6°29'	16°54'	22°55'	17°40'	27°23'	5°46'	4°56'	12°52'	26°41'
S 13	9 30 46	23°43'54"	19°40'	11°33'	13°34'	10° 4'	6°32'	16°59'	22°58'	17°38'	27°22'	5°47'	4°53'	12°58'	26°39'
M14	9 34 43	24°44'43"	3°11'13	12° 7'	13° 3'	10°40'	6°35'	17° 3'	23° 1'	17°37'	27°21'	5°R48	4°50'	13° 5'	26°38'
T 15	9 38 39	25°45'31"	16°32'	12°31'	12°33'	11°15'	6°38'	17° 7'	23° 5'	17°35'	27°20'	5°48'	4°47'	13°12'	26°36'
W16	9 42 36	26°46'18"	29°38'	12°45'	12° 6'	11°51'	6°41'	17°11'	23° 8'	17°34'	27°19'	5°46'	4°43'	13°18'	26°35'
T 17	9 46 33	27°47'03"	12°11'30	12°R48	11°40'	12°26'	6°44'	17°14'	23°11'	17°32'	27°18'	5°44'	4°40'	13°25'	26°34'
F 18	9 50 29	28°47'47"	25° 7'	12°41'	11°17'	13° 1'	6°48'	17°18'	23°14'	17°31'	27°17'	5°40'	4°37'	13°32'	26°33'
S 19	9 54 26	29°48'29"	7°11'30	12°23'	10°56'	13°37'	6°51'	17°22'	23°17'	17°29'	27°15'	5°36'	4°34'	13°39'	26°32'
S 20	9 58 22	0°11'49'10	19°40'	11°54'	10°37'	14°12'	6°55'	17°25'	23°21'	17°28'	27°14'	5°32'	4°31'	13°45'	26°31'
M21	10 2 19	1°49'49"	1°11'16	11°16'	10°21'	14°47'	6°59'	17°29'	23°24'	17°26'	27°13'	5°28'	4°28'	13°52'	26°30'
T 22	10 6 15	2°50'27"	13°35'	10°29'	10° 7'	15°22'	7° 4'	17°32'	23°27'	17°24'	27°12'	5°25'	4°24'	13°59'	26°29'
W23	10 10 12	3°51'03"	25°27'	9°35'	9°56'	15°57'	7° 8'	17°35'	23°30'	17°23'	27°11'	5°23'	4°21'	14° 6'	26°28'
T 24	10 14 8	4°51'38"	7°II21	8°35'	9°47'	16°32'	7°13'	17°39'	23°34'	17°21'	27°10'	5°D23	4°18'	14°12'	26°28'
F 25	10 18 5	5°52'10"	19°22'	7°30'	9°40'	17° 7'	7°18'	17°42'	23°37'	17°20'	27° 9'	5°24'	4°15'	14°19'	26°27'
S 26	10 22 2	6°52'42"	1°Ω35	6°23'	9°36'	17°41'	7°23'	17°45'	23°40'	17°18'	27° 8'	5°25'	4°12'	14°26'	26°27'
S 27	10 25 58	7°53'11"	14° 5'	5°15'	9°D34	18°16'	7°28'	17°48'	23°44'	17°16'	27° 7'	5°27'	4° 9'	14°32'	26°26'
M28	10 29 55	8°53'38"	26°55'	4° 8'	9°35'	18°51'	7°33'	17°50'	23°47'	17°15'	27° 7'	5°28'	4° 5'	14°39'	26°26'
T 29	10 33 51	9°54'04"	10°Ω 9	3°11'4	9°38'	19°11'25	7°II39	17°11'53	23°11'50	17°13'	27°6'	5°R29	4°Ω 2	14°46'	26°II 26

Delta T = 18m46s

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SWISS EPHEMERIS for the year 2428

MARCH 2428

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁
W 1	10 37 48	10 <sup>h</sup> 54 <sup>m</sup> 28	23 <sup>h</sup> Ω46	2 <sup>h</sup> R 4	9 <sup>h</sup> ≈44	20 <sup>h</sup> ♁ 0	7 <sup>h</sup> II44	17 <sup>h</sup> ♁56	23 <sup>h</sup> ♁54	17 <sup>h</sup> R11	27 <sup>h</sup> R 5	5 <sup>h</sup> R27	3 <sup>h</sup> Ω59	14 <sup>h</sup> ♁53	26 <sup>h</sup> R25
T 2	10 41 44	11 <sup>h</sup> 54 <sup>m</sup> 50	7 <sup>h</sup> ♁47	1 <sup>h</sup> X 9	9 <sup>h</sup> 52	20 <sup>h</sup> 34	7 <sup>h</sup> 50	17 <sup>h</sup> 58	23 <sup>h</sup> 57	17 <sup>h</sup> ♁10	27 <sup>h</sup> Ω 4	5 <sup>h</sup> Ω24	3 <sup>h</sup> 56	14 <sup>h</sup> 59	26 <sup>h</sup> D25
F 3	10 45 41	12 <sup>h</sup> 55 <sup>m</sup> 11	22 <sup>h</sup> 6	0 <sup>h</sup> 19	10 <sup>h</sup> 2	21 <sup>h</sup> 9	7 <sup>h</sup> 56	18 <sup>h</sup> 1	24 <sup>h</sup> 0	17 <sup>h</sup> 8	27 <sup>h</sup> 3	5 <sup>h</sup> 19	3 <sup>h</sup> 53	15 <sup>h</sup> 6	26 <sup>h</sup> II25
S 4	10 49 37	13 <sup>h</sup> 55 <sup>m</sup> 29	6 <sup>h</sup> Ω39	29 <sup>h</sup> ≈36	10 <sup>h</sup> 14	21 <sup>h</sup> 43	8 <sup>h</sup> 2	18 <sup>h</sup> 3	24 <sup>h</sup> 4	17 <sup>h</sup> 6	27 <sup>h</sup> 2	5 <sup>h</sup> 13	3 <sup>h</sup> 49	15 <sup>h</sup> 13	26 <sup>h</sup> 26
S 5	10 53 34	14 <sup>h</sup> 55 <sup>m</sup> 47	21 <sup>h</sup> 19	29 <sup>h</sup> 0	10 <sup>h</sup> 28	22 <sup>h</sup> 17	8 <sup>h</sup> 9	18 <sup>h</sup> 5	24 <sup>h</sup> 7	17 <sup>h</sup> 5	27 <sup>h</sup> 1	5 <sup>h</sup> 7	3 <sup>h</sup> 46	15 <sup>h</sup> 19	26 <sup>h</sup> 26
M 6	10 57 30	15 <sup>h</sup> 56 <sup>m</sup> 03	5 <sup>h</sup> II59	28 <sup>h</sup> 32	10 <sup>h</sup> 45	22 <sup>h</sup> 51	8 <sup>h</sup> 15	18 <sup>h</sup> 8	24 <sup>h</sup> 10	17 <sup>h</sup> 3	27 <sup>h</sup> 1	5 <sup>h</sup> 2	3 <sup>h</sup> 43	15 <sup>h</sup> 26	26 <sup>h</sup> 26
T 7	11 1 27	16 <sup>h</sup> 56 <sup>m</sup> 17	20 <sup>h</sup> 31	28 <sup>h</sup> 10	11 <sup>h</sup> 3	23 <sup>h</sup> 25	8 <sup>h</sup> 22	18 <sup>h</sup> 10	24 <sup>h</sup> 14	17 <sup>h</sup> 1	27 <sup>h</sup> 0	4 <sup>h</sup> 57	3 <sup>h</sup> 40	15 <sup>h</sup> 33	26 <sup>h</sup> 26
W 8	11 5 24	17 <sup>h</sup> 56 <sup>m</sup> 30	4 <sup>h</sup> ♁52	27 <sup>h</sup> 56	11 <sup>h</sup> 23	23 <sup>h</sup> 59	8 <sup>h</sup> 29	18 <sup>h</sup> 12	24 <sup>h</sup> 17	17 <sup>h</sup> 0	26 <sup>h</sup> 59	4 <sup>h</sup> 54	3 <sup>h</sup> 37	15 <sup>h</sup> 40	26 <sup>h</sup> 27
T 9	11 9 20	18 <sup>h</sup> 56 <sup>m</sup> 42	18 <sup>h</sup> 58	27 <sup>h</sup> 48	11 <sup>h</sup> 46	24 <sup>h</sup> 33	8 <sup>h</sup> 36	18 <sup>h</sup> 14	24 <sup>h</sup> 21	16 <sup>h</sup> 58	26 <sup>h</sup> 58	4 <sup>h</sup> D54	3 <sup>h</sup> 34	15 <sup>h</sup> 46	26 <sup>h</sup> 27
F 10	11 13 17	19 <sup>h</sup> 56 <sup>m</sup> 52	2 <sup>h</sup> ♁48	27 <sup>h</sup> D47	12 <sup>h</sup> 10	25 <sup>h</sup> 7	8 <sup>h</sup> 43	18 <sup>h</sup> 15	24 <sup>h</sup> 24	16 <sup>h</sup> 56	26 <sup>h</sup> 58	4 <sup>h</sup> 54	3 <sup>h</sup> 30	15 <sup>h</sup> 53	26 <sup>h</sup> 28
S 11	11 17 13	20 <sup>h</sup> 57 <sup>m</sup> 01	16 <sup>h</sup> 24	27 <sup>h</sup> 53	12 <sup>h</sup> 35	25 <sup>h</sup> 41	8 <sup>h</sup> 50	18 <sup>h</sup> 17	24 <sup>h</sup> 28	16 <sup>h</sup> 55	26 <sup>h</sup> 57	4 <sup>h</sup> 56	3 <sup>h</sup> 27	16 <sup>h</sup> 0	26 <sup>h</sup> 28
S 12	11 21 10	21 <sup>h</sup> 57 <sup>m</sup> 08	29 <sup>h</sup> 44	28 <sup>h</sup> 5	13 <sup>h</sup> 3	26 <sup>h</sup> 15	8 <sup>h</sup> 57	18 <sup>h</sup> 19	24 <sup>h</sup> 31	16 <sup>h</sup> 53	26 <sup>h</sup> 56	4 <sup>h</sup> R57	3 <sup>h</sup> 24	16 <sup>h</sup> 6	26 <sup>h</sup> 29
M13	11 25 6	22 <sup>h</sup> 57 <sup>m</sup> 14	12 <sup>h</sup> ≈52	28 <sup>h</sup> 22	13 <sup>h</sup> 32	26 <sup>h</sup> 48	9 <sup>h</sup> 5	18 <sup>h</sup> 20	24 <sup>h</sup> 34	16 <sup>h</sup> 51	26 <sup>h</sup> 56	4 <sup>h</sup> 56	3 <sup>h</sup> 21	16 <sup>h</sup> 13	26 <sup>h</sup> 30
T 14	11 29 3	23 <sup>h</sup> 57 <sup>m</sup> 18	25 <sup>h</sup> 48	28 <sup>h</sup> 45	14 <sup>h</sup> 3	27 <sup>h</sup> 22	9 <sup>h</sup> 13	18 <sup>h</sup> 22	24 <sup>h</sup> 38	16 <sup>h</sup> 50	26 <sup>h</sup> 55	4 <sup>h</sup> 54	3 <sup>h</sup> 18	16 <sup>h</sup> 20	26 <sup>h</sup> 31
W15	11 32 59	24 <sup>h</sup> 57 <sup>m</sup> 20	8 <sup>h</sup> ♁33	29 <sup>h</sup> 12	14 <sup>h</sup> 35	27 <sup>h</sup> 55	9 <sup>h</sup> 21	18 <sup>h</sup> 23	24 <sup>h</sup> 41	16 <sup>h</sup> 48	26 <sup>h</sup> 54	4 <sup>h</sup> 50	3 <sup>h</sup> 14	16 <sup>h</sup> 27	26 <sup>h</sup> 32
T 16	11 36 56	25 <sup>h</sup> 57 <sup>m</sup> 20	21 <sup>h</sup> 7	29 <sup>h</sup> 45	15 <sup>h</sup> 8	28 <sup>h</sup> 28	9 <sup>h</sup> 29	18 <sup>h</sup> 24	24 <sup>h</sup> 45	16 <sup>h</sup> 46	26 <sup>h</sup> 54	4 <sup>h</sup> 43	3 <sup>h</sup> 11	16 <sup>h</sup> 33	26 <sup>h</sup> 33
F 17	11 40 53	26 <sup>h</sup> 57 <sup>m</sup> 19	3 <sup>h</sup> ♁31	0 <sup>h</sup> ♁21	15 <sup>h</sup> 43	29 <sup>h</sup> 1	9 <sup>h</sup> 37	18 <sup>h</sup> 25	24 <sup>h</sup> 48	16 <sup>h</sup> 45	26 <sup>h</sup> 53	4 <sup>h</sup> 34	3 <sup>h</sup> 8	16 <sup>h</sup> 40	26 <sup>h</sup> 34
S 18	11 44 49	27 <sup>h</sup> 57 <sup>m</sup> 15	15 <sup>h</sup> 45	1 <sup>h</sup> 2	16 <sup>h</sup> 19	29 <sup>h</sup> 34	9 <sup>h</sup> 45	18 <sup>h</sup> 26	24 <sup>h</sup> 52	16 <sup>h</sup> 43	26 <sup>h</sup> 53	4 <sup>h</sup> 23	3 <sup>h</sup> 5	16 <sup>h</sup> 47	26 <sup>h</sup> 35
S 19	11 48 46	28 <sup>h</sup> 57 <sup>m</sup> 10	27 <sup>h</sup> 50	1 <sup>h</sup> 47	16 <sup>h</sup> 56	0 <sup>h</sup> ♁ 7	9 <sup>h</sup> 53	18 <sup>h</sup> 27	24 <sup>h</sup> 55	16 <sup>h</sup> 41	26 <sup>h</sup> 52	4 <sup>h</sup> 13	3 <sup>h</sup> 2	16 <sup>h</sup> 54	26 <sup>h</sup> 37
M20	11 52 42	29 <sup>h</sup> 57 <sup>m</sup> 02	9 <sup>h</sup> ♁48	2 <sup>h</sup> 35	17 <sup>h</sup> 35	0 <sup>h</sup> 40	10 <sup>h</sup> 2	18 <sup>h</sup> 28	24 <sup>h</sup> 58	16 <sup>h</sup> 40	26 <sup>h</sup> 52	4 <sup>h</sup> 2	2 <sup>h</sup> 59	17 <sup>h</sup> 0	26 <sup>h</sup> 38
T 21	11 56 39	0 <sup>h</sup> ♁56 <sup>m</sup> 53	21 <sup>h</sup> 40	3 <sup>h</sup> 26	18 <sup>h</sup> 15	1 <sup>h</sup> 13	10 <sup>h</sup> 11	18 <sup>h</sup> 28	25 <sup>h</sup> 2	16 <sup>h</sup> 38	26 <sup>h</sup> 51	3 <sup>h</sup> 54	2 <sup>h</sup> 55	17 <sup>h</sup> 7	26 <sup>h</sup> 40
W22	12 0 35	1 <sup>h</sup> 56 <sup>m</sup> 41	3 <sup>h</sup> II31	4 <sup>h</sup> 21	18 <sup>h</sup> 56	1 <sup>h</sup> 46	10 <sup>h</sup> 19	18 <sup>h</sup> 29	25 <sup>h</sup> 5	16 <sup>h</sup> 37	26 <sup>h</sup> 51	3 <sup>h</sup> 47	2 <sup>h</sup> 52	17 <sup>h</sup> 14	26 <sup>h</sup> 41
T 23	12 4 32	2 <sup>h</sup> 56 <sup>m</sup> 28	15 <sup>h</sup> 23	5 <sup>h</sup> 18	19 <sup>h</sup> 38	2 <sup>h</sup> 18	10 <sup>h</sup> 28	18 <sup>h</sup> 30	25 <sup>h</sup> 9	16 <sup>h</sup> 35	26 <sup>h</sup> 50	3 <sup>h</sup> 43	2 <sup>h</sup> 49	17 <sup>h</sup> 20	26 <sup>h</sup> 43
F 24	12 8 28	3 <sup>h</sup> 56 <sup>m</sup> 12	27 <sup>h</sup> 21	6 <sup>h</sup> 19	20 <sup>h</sup> 21	2 <sup>h</sup> 51	10 <sup>h</sup> 37	18 <sup>h</sup> 30	25 <sup>h</sup> 12	16 <sup>h</sup> 33	26 <sup>h</sup> 50	3 <sup>h</sup> 42	2 <sup>h</sup> 46	17 <sup>h</sup> 27	26 <sup>h</sup> 45
S 25	12 12 25	4 <sup>h</sup> 55 <sup>m</sup> 53	9 <sup>h</sup> ♁31	7 <sup>h</sup> 22	21 <sup>h</sup> 5	3 <sup>h</sup> 23	10 <sup>h</sup> 47	18 <sup>h</sup> 30	25 <sup>h</sup> 16	16 <sup>h</sup> 32	26 <sup>h</sup> 50	3 <sup>h</sup> D41	2 <sup>h</sup> 43	17 <sup>h</sup> 34	26 <sup>h</sup> 46
S 26	12 16 22	5 <sup>h</sup> 55 <sup>m</sup> 33	21 <sup>h</sup> 57	8 <sup>h</sup> 27	21 <sup>h</sup> 50	3 <sup>h</sup> 55	10 <sup>h</sup> 56	18 <sup>h</sup> 30	25 <sup>h</sup> 19	16 <sup>h</sup> 30	26 <sup>h</sup> 49	3 <sup>h</sup> 42	2 <sup>h</sup> 40	17 <sup>h</sup> 41	26 <sup>h</sup> 48
M27	12 20 18	6 <sup>h</sup> 55 <sup>m</sup> 10	4 <sup>h</sup> Ω45	9 <sup>h</sup> 35	22 <sup>h</sup> 35	4 <sup>h</sup> 27	11 <sup>h</sup> 5	18 <sup>h</sup> R30	25 <sup>h</sup> 22	16 <sup>h</sup> 29	26 <sup>h</sup> 49	3 <sup>h</sup> R42	2 <sup>h</sup> 36	17 <sup>h</sup> 47	26 <sup>h</sup> 50
T 28	12 24 15	7 <sup>h</sup> 54 <sup>m</sup> 46	17 <sup>h</sup> 58	10 <sup>h</sup> 45	23 <sup>h</sup> 22	4 <sup>h</sup> 59	11 <sup>h</sup> 15	18 <sup>h</sup> 30	25 <sup>h</sup> 26	16 <sup>h</sup> 27	26 <sup>h</sup> 49	3 <sup>h</sup> 42	2 <sup>h</sup> 33	17 <sup>h</sup> 54	26 <sup>h</sup> 52
W29	12 28 11	8 <sup>h</sup> 54 <sup>m</sup> 18	1 <sup>h</sup> ♁39	11 <sup>h</sup> 57	24 <sup>h</sup> 10	5 <sup>h</sup> 31	11 <sup>h</sup> 25	18 <sup>h</sup> 30	25 <sup>h</sup> 29	16 <sup>h</sup> 26	26 <sup>h</sup> 48	3 <sup>h</sup> 38	2 <sup>h</sup> 30	18 <sup>h</sup> 1	26 <sup>h</sup> 54
T 30	12 32 8	9 <sup>h</sup> 53 <sup>m</sup> 49	15 <sup>h</sup> 48	13 <sup>h</sup> 10	24 <sup>h</sup> 58	6 <sup>h</sup> 3	11 <sup>h</sup> 34	18 <sup>h</sup> 30	25 <sup>h</sup> 32	16 <sup>h</sup> 24	26 <sup>h</sup> 48	3 <sup>h</sup> 33	2 <sup>h</sup> 27	18 <sup>h</sup> 7	26 <sup>h</sup> 56
F 31	12 36 4	10 <sup>h</sup> ♁53 <sup>m</sup> 18	0 <sup>h</sup> Ω23	14 <sup>h</sup> ♁26	25 <sup>h</sup> ≈47	6 <sup>h</sup> ♁34	11 <sup>h</sup> II44	18 <sup>h</sup> ♁30	25 <sup>h</sup> ♁36	16 <sup>h</sup> ♁23	26 <sup>h</sup> Ω48	3 <sup>h</sup> Ω25	2 <sup>h</sup> Ω24	18 <sup>h</sup> ♁14	26 <sup>h</sup> II59

Delta T = 18m46s

APRIL 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁
S 1	12 40 1	11 <sup>h</sup> ♁52 <sup>m</sup> 44	15 <sup>h</sup> Ω18	15 <sup>h</sup> ♁44	26 <sup>h</sup> ≈37	7 <sup>h</sup> ♁ 5	11 <sup>h</sup> II54	18 <sup>h</sup> R29	25 <sup>h</sup> ♁39	16 <sup>h</sup> R21	26 <sup>h</sup> R48	3 <sup>h</sup> R15	2 <sup>h</sup> Ω20	18 <sup>h</sup> ♁21	27 <sup>h</sup> II 1
S 2	12 43 57	12 <sup>h</sup> 52 <sup>m</sup> 08	0 <sup>h</sup> II23	17 <sup>h</sup> 4	27 <sup>h</sup> 28	7 <sup>h</sup> 37	12 <sup>h</sup> 4	18 <sup>h</sup> ♁29	25 <sup>h</sup> 42	16 <sup>h</sup> ♁20	26 <sup>h</sup> Ω47	3 <sup>h</sup> Ω 5	2 <sup>h</sup> 17	18 <sup>h</sup> 28	27 <sup>h</sup> 3
M 3	12 47 54	13 <sup>h</sup> 51 <sup>m</sup> 31	15 <sup>h</sup> 28	18 <sup>h</sup> 25	28 <sup>h</sup> 19	8 <sup>h</sup> 8	12 <sup>h</sup> 15	18 <sup>h</sup> 28	25 <sup>h</sup> 46	16 <sup>h</sup> 18	26 <sup>h</sup> 47	2 <sup>h</sup> 55	2 <sup>h</sup> 14	18 <sup>h</sup> 34	27 <sup>h</sup> 6
T 4	12 51 50	14 <sup>h</sup> 50 <sup>m</sup> 52	0 <sup>h</sup> ♁24	19 <sup>h</sup> 48	29 <sup>h</sup> 11	8 <sup>h</sup> 39	12 <sup>h</sup> 25	18 <sup>h</sup> 28	25 <sup>h</sup> 49	16 <sup>h</sup> 17	26 <sup>h</sup> 47	2 <sup>h</sup> 47	2 <sup>h</sup> 11	18 <sup>h</sup> 41	27 <sup>h</sup> 8
W 5	12 55 47	15 <sup>h</sup> 50 <sup>m</sup> 11	15 <sup>h</sup> 2	21 <sup>h</sup> 13	0 <sup>h</sup> ♁ 4	9 <sup>h</sup> 10	12 <sup>h</sup> 35	18 <sup>h</sup> 27	25 <sup>h</sup> 52	16 <sup>h</sup> 15	26 <sup>h</sup> 47	2 <sup>h</sup> 41	2 <sup>h</sup> 8	18 <sup>h</sup> 48	27 <sup>h</sup> 11
T 6	12 59 44	16 <sup>h</sup> 49 <sup>m</sup> 28	29 <sup>h</sup> 19	22 <sup>h</sup> 39	0 <sup>h</sup> 57	9 <sup>h</sup> 40	12 <sup>h</sup> 46	18 <sup>h</sup> 26	25 <sup>h</sup> 56	16 <sup>h</sup> 14	26 <sup>h</sup> 47	2 <sup>h</sup> 38	2 <sup>h</sup> 5	18 <sup>h</sup> 54	27 <sup>h</sup> 14
F 7	13 3 40	17 <sup>h</sup> 48 <sup>m</sup> 44	13 <sup>h</sup> ♁13	24 <sup>h</sup> 7	1 <sup>h</sup> 51	10 <sup>h</sup> 11	12 <sup>h</sup> 56	18 <sup>h</sup> 25	25 <sup>h</sup> 59	16 <sup>h</sup> 13	26 <sup>h</sup> 47	2 <sup>h</sup> D37	2 <sup>h</sup> 1	19 <sup>h</sup> 1	27 <sup>h</sup> 16
S 8	13 7 37	18 <sup>h</sup> 47 <sup>m</sup> 58	26 <sup>h</sup> 45	25 <sup>h</sup> 36	2 <sup>h</sup> 45	10 <sup>h</sup> 41	13 <sup>h</sup> 7	18 <sup>h</sup> 24	26 <sup>h</sup> 2	16 <sup>h</sup> 11	26 <sup>h</sup> 47	2 <sup>h</sup> R37	1 <sup>h</sup> 58	19 <sup>h</sup> 8	27 <sup>h</sup> 19
S 9	13 11 33	19 <sup>h</sup> 47 <sup>m</sup> 10	9 <sup>h</sup> ≈56	27 <sup>h</sup> 7	3 <sup>h</sup> 40	11 <sup>h</sup> 11	13 <sup>h</sup> 18	18 <sup>h</sup> 22	26 <sup>h</sup> 5	16 <sup>h</sup> 10	26 <sup>h</sup> D47	2 <sup>h</sup> 37	1 <sup>h</sup> 55	19 <sup>h</sup> 15	27 <sup>h</sup> 22
M10	13 15 30	20 <sup>h</sup> 46 <sup>m</sup> 20	22 <sup>h</sup> 49	28 <sup>h</sup> 40	4 <sup>h</sup> 36	11 <sup>h</sup> 42	13 <sup>h</sup> 29	18 <sup>h</sup> 21	26 <sup>h</sup> 8	16 <sup>h</sup> 9	26 <sup>h</sup> 47	2 <sup>h</sup> 35	1 <sup>h</sup> 52	19 <sup>h</sup> 21	27 <sup>h</sup> 25
T 11	13 19 26	21 <sup>h</sup> 45 <sup>m</sup> 29	5 <sup>h</sup> ♁29	0 <sup>h</sup> ♁14	5 <sup>h</sup> 32	12 <sup>h</sup> 11	13 <sup>h</sup> 40	18 <sup>h</sup> 20	26 <sup>h</sup> 12	16 <sup>h</sup> 7	26 <sup>h</sup> 47	2 <sup>h</sup> 31	1 <sup>h</sup> 49	19 <sup>h</sup> 28	27 <sup>h</sup> 28
W12	13 23 23	22 <sup>h</sup> 44 <sup>m</sup> 35	17 <sup>h</sup> 57	1 <sup>h</sup> 49	6 <sup>h</sup> 28	12 <sup>h</sup> 41	13 <sup>h</sup> 51	18 <sup>h</sup> 18	26 <sup>h</sup> 15	16 <sup>h</sup> 6	26 <sup>h</sup> 47	2 <sup>h</sup> 25	1 <sup>h</sup> 45	19 <sup>h</sup> 35	27 <sup>h</sup> 31
T 13	13 27 19	23 <sup>h</sup> 43 <sup>m</sup> 40	0 <sup>h</sup> ♁15	3 <sup>h</sup> 26	7 <sup>h</sup> 25	13 <sup>h</sup> 11	14 <sup>h</sup> 2	18 <sup>h</sup> 17	26 <sup>h</sup> 18	16 <sup>h</sup> 5	26 <sup>h</sup> 47	2 <sup>h</sup> 15	1 <sup>h</sup> 42	19 <sup>h</sup> 41	27 <sup>h</sup> 34
F 14	13 31 16	24 <sup>h</sup> 42 <sup>m</sup> 43	12 <sup>h</sup> 26	5 <sup>h</sup> 4	8 <sup>h</sup> 23	13 <sup>h</sup> 40	14 <sup>h</sup> 13	18 <sup>h</sup> 15	26 <sup>h</sup> 21	16 <sup>h</sup> 4	26 <sup>h</sup> 47	2 <sup>h</sup> 3	1 <sup>h</sup> 39	19 <sup>h</sup> 48	27 <sup>h</sup> 37
S 15	13 35 13	25 <sup>h</sup> 41 <sup>m</sup> 44	24 <sup>h</sup> 29	6 <sup>h</sup> 44	9 <sup>h</sup> 21	14 <sup>h</sup> 9	14 <sup>h</sup> 25	18 <sup>h</sup> 13	26 <sup>h</sup> 24	16 <sup>h</sup> 2	26 <sup>h</sup> 47	1 <sup>h</sup> 49	1 <sup>h</sup> 36	19 <sup>h</sup> 55	27 <sup>h</sup> 41
S															

SWISS EPHEMERIS for the year 2428

MAY 2428

00:00 UT

Day	Sid.t	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑
M 1	14 38 17	11♈21'14	24♎ 5	6♂51	25♃35	21♈24	17♎37	17°R33	27♃11	15°R46	26♁53	29°R57	0♎45	21♈42	28♎41			
T 2	14 42 14	12°19'39	9♃17	8°56	26°38	21°49	17°49	17♃30	27°13	15♎45	26°53	29♁48	0°42	21°49	28°45			
W 3	14 46 11	13°18'03	24°13	11° 3	27°42	22°14	18° 2	17°27	27°16	15°45	26°54	29°42	0°39	21°56	28°49			
T 4	14 50 7	14°16'26	8♁45	13°10	28°46	22°39	18°15	17°24	27°18	15°44	26°54	29°38	0°36	22° 2	28°54			
F 5	14 54 4	15°14'47	22°50	15°18	29°50	23° 3	18°27	17°20	27°21	15°43	26°55	29°37	0°32	22° 9	28°58			
S 6	14 58 0	16°13'06	6♁28	17°27	0♃54	23°27	18°40	17°17	27°24	15°43	26°56	29°D37	0°29	22°16	29° 3			
S 7	15 1 57	17°11'24	19°40	19°37	1°59	23°50	18°53	17°13	27°26	15°42	26°56	29°R37	0°26	22°23	29° 7			
M 8	15 5 53	18° 9'40	2♃31	21°46	3° 3	24°13	19° 6	17°10	27°29	15°41	26°57	29°36	0°23	22°29	29°12			
T 9	15 9 50	19° 7'55	15° 4	23°55	4° 8	24°36	19°19	17° 6	27°31	15°41	26°58	29°33	0°20	22°36	29°16			
W10	15 13 46	20° 6'08	27°23	26° 5	5°13	24°59	19°32	17° 2	27°33	15°40	26°59	29°28	0°17	22°43	29°21			
T 11	15 17 43	21° 4'20	9♃32	28°13	6°19	25°21	19°45	16°59	27°36	15°40	26°59	29°20	0°13	22°49	29°25			
F 12	15 21 40	22° 2'30	21°33	0♎20	7°24	25°42	19°58	16°55	27°38	15°39	27° 0	29°10	0°10	22°56	29°30			
S 13	15 25 36	23° 0'39	3♁29	2°26	8°30	26° 4	20°11	16°51	27°40	15°39	27° 1	28°58	0° 7	23° 3	29°35			
S 14	15 29 33	23°58'46	15°22	4°31	9°36	26°25	20°24	16°47	27°43	15°39	27° 2	28°45	0° 4	23°10	29°40			
M15	15 33 29	24°56'52	27°13	6°34	10°42	26°45	20°38	16°43	27°45	15°38	27° 2	28°34	0° 1	23°16	29°44			
T 16	15 37 26	25°54'56	9♎ 4	8°35	11°48	27° 6	20°51	16°39	27°47	15°38	27° 3	28°23	29♁57	23°23	29°49			
W17	15 41 22	26°52'59	20°57	10°33	12°54	27°25	21° 4	16°35	27°49	15°37	27° 4	28°15	29°54	23°30	29°54			
T 18	15 45 19	27°51'00	2♁53	12°29	14° 0	27°45	21°17	16°31	27°51	15°37	27° 5	28° 9	29°51	23°36	29°59			
F 19	15 49 15	28°48'59	14°55	14°22	15° 7	28° 4	21°31	16°27	27°53	15°37	27° 6	28° 6	29°48	23°43	0♁ 4			
S 20	15 53 12	29°46'56	27° 7	16°12	16°14	28°22	21°44	16°23	27°55	15°37	27° 7	28°D 5	29°45	23°50	0° 9			
S 21	15 57 9	0♎44'52	9♎32	18° 0	17°20	28°40	21°58	16°19	27°57	15°37	27° 8	28° 6	29°42	23°57	0°14			
M22	16 1 5	1°42'46	22°14	19°44	18°27	28°57	22°11	16°14	27°59	15°36	27° 9	28° 6	29°38	24° 3	0°19			
T 23	16 5 2	2°40'38	5♎19	21°25	19°34	29°14	22°25	16°10	28° 1	15°36	27°10	28°R 7	29°35	24°10	0°24			
W24	16 8 58	3°38'28	18°48	23° 3	20°41	29°31	22°38	16° 6	28° 3	15°36	27°11	28° 6	29°32	24°17	0°29			
T 25	16 12 55	4°36'17	2♁45	24°37	21°49	29°47	22°52	16° 2	28° 5	15°36	27°12	28° 3	29°29	24°23	0°34			
F 26	16 16 51	5°34'04	17°10	26° 9	22°56	0♁ 3	23° 5	15°57	28° 7	15°D36	27°13	27°58	29°26	24°30	0°39			
S 27	16 20 48	6°31'49	2♎ 0	27°36	24° 4	0°18	23°19	15°53	28° 8	15°36	27°14	27°51	29°23	24°37	0°45			
S 28	16 24 44	7°29'33	17° 7	29° 0	25°11	0°32	23°32	15°48	28°10	15°36	27°15	27°43	29°19	24°44	0°50			
M29	16 28 41	8°27'15	2♃23	0♁21	26°19	0°46	23°46	15°44	28°12	15°36	27°16	27°36	29°16	24°50	0°55			
T 30	16 32 38	9°24'56	17°37	1°38	27°27	1° 0	24° 0	15°40	28°13	15°36	27°17	27°30	29°13	24°57	1° 0			
W31	16 36 34	10♎22'36	2♁38	2♁52	28°V35	1♁13	24♎13	15♃35	28♃15	15♎36	27♁19	27♁26	29♁10	25♁ 4	1♁ 6			

Delta T = 18m47s

JUNE 2428

00:00 UT

Day	Sid.t	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑
T 1	16 40 31	11♎20'15	17♁19	4♁ 1	29°V43	1♁25	24♎27	15°R31	28♃16	15♎37	27♁20	27°R24	29♁ 7	25♁10	1♁11			
F 2	16 44 27	12°17'53	1♁34	5° 8	0♁51	1°37	24°41	15♃26	28°18	15°37	27°21	27°D23	29° 3	25°17	1°16			
S 3	16 48 24	13°15'30	15°21	6°10	2° 0	1°48	24°55	15°22	28°19	15°37	27°22	27♁24	29° 0	25°24	1°22			
S 4	16 52 20	14°13'06	28°40	7° 8	3° 8	1°58	25° 8	15°17	28°21	15°37	27°23	27°26	28°57	25°30	1°27			
M 5	16 56 17	15°10'41	11♃35	8° 3	4°16	2° 8	25°22	15°13	28°22	15°38	27°25	27°R27	28°54	25°37	1°32			
T 6	17 0 13	16° 8'15	24° 9	8°53	5°25	2°18	25°36	15° 9	28°23	15°38	27°26	27°26	28°51	25°44	1°38			
W 7	17 4 10	17° 5'48	6°V27	9°40	6°34	2°26	25°50	15° 4	28°25	15°38	27°27	27°24	28°48	25°51	1°43			
T 8	17 8 7	18° 3'21	18°33	10°22	7°43	2°34	26° 4	15° 0	28°26	15°39	27°28	27°21	28°44	25°57	1°49			
F 9	17 12 3	19° 0'52	0♁30	11° 0	8°51	2°41	26°17	14°55	28°27	15°39	27°30	27°16	28°41	26° 4	1°54			
S 10	17 16 0	19°58'23	12°23	11°34	10° 0	2°48	26°31	14°51	28°28	15°40	27°31	27° 9	28°38	26°11	2° 0			
S 11	17 19 56	20°55'53	24°13	12° 3	11° 9	2°54	26°45	14°46	28°29	15°40	27°32	27° 3	28°35	26°17	2° 5			
M12	17 23 53	21°53'23	6♎ 5	12°28	12°18	2°59	26°59	14°42	28°30	15°41	27°34	26°56	28°32	26°24	2°11			
T 13	17 27 49	22°50'51	17°59	12°49	13°28	3° 4	27°13	14°37	28°31	15°41	27°35	26°51	28°29	26°31	2°16			
W14	17 31 46	23°48'19	29°57	13° 4	14°37	3° 7	27°27	14°33	28°32	15°42	27°36	26°47	28°25	26°38	2°22			
T 15	17 35 42	24°45'46	12♁ 2	13°16	15°46	3°10	27°41	14°29	28°33	15°42	27°38	26°44	28°22	26°44	2°27			
F 16	17 39 39	25°43'11	24°14	13°22	16°56	3°13	27°54	14°24	28°34	15°43	27°39	26°D43	28°19	26°51	2°33			
S 17	17 43 36	26°40'36	6♎37	13°R24	18° 5	3°14	28° 8	14°20	28°35	15°44	27°40	26°43	28°16	26°58	2°38			
S 18	17 47 32	27°38'00	19°12	13°22	19°14	3°15	28°22	14°16	28°35	15°45	27°42	26°45	28°13	27° 4	2°44			
M19	17 51 29	28°35'23	2♎ 3	13°15	20°24	3°R15	28°36	14°12	28°36	15°45	27°43	26°46	28° 9	27°11	2°50			
T 20	17 55 25	29°32'45	15°11	13° 4	21°34	3°14	28°50	14° 7	28°37	15°46	27°45	26°48	28° 6	27°18	2°55			
W21	17 59 22	0♁30'06	28°40	12°49	22°43	3°13	29° 4	14° 3	28°37	15°47	27°46	26°R48	28° 3	27°25	3° 1			
T 22	18 3 18	1°27'26	12♁30	12°30	23°53	3°11	29°18	13°59	28°38	15°48	27°47	26°48	28° 0	27°31	3° 6			
F 23	18 7 15	2°24'45	26°43	12° 7	25° 3	3° 8	29°32	13°55	28°38	15°49	27°49	26°46	27°57	27°38	3°12			
S 24	18 11 11	3°22'03	11♎16	11°42	26°13	3° 4	29°45	13°51	28°39	15°49	27°50	26°44	27°54	27°45	3°18			
S 25	18 15 8	4°19'21	26° 4	11°13	27°23	3° 0	29°59	13°47	28°39	15°50	27°52	26°41	27°50	27°51	3°23			
M26	18 19 5	5°16'37	11♃ 2	10°42	28°33	2°55	0♁13	13°43	28°40	15°51	27°53	26°38	27°47	27°58	3°29			
T 27	18 23 1	6°13'54	26° 1	10°10	29°43	2°49	0°27	13°39	28°40	15°52	27°55	26°36	27°44	28° 5	3°34			
W28	18 26 58	7°11'09	10♁53	9°36	0♎53	2°42	0°41	13°35	28°40	15°53	27°56	26°35	27°41	28°11	3°40			
T 29	18 30 54	8° 8'24	25°29	9° 1	2° 3	2°35	0°55	13°31	28°40	15°54	27°58	26°D34	27°38	28°18	3°46			
F 30	18 34 51	9♁ 5'39	9♁45	8♁26	3♎14	2♁27	1♁ 8	13♃27	28♃40	15♎56	27♁59	26♁34	27♁35	28♁25	3♁51			

Delta T = 18m47s

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SWISS EPHEMERIS for the year 2428

JULY 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♇	♈	♉	♊	♋
S 1	18 38 47	10♉25'4	23♋35	7°R52	4♂24	2°R18	1♉22	13°R23	28♋41	15♎57	28♉1	26♉35	27♉31	28♋32	3♉57	
S 2	18 42 44	11° 0'08	7♋0	7♉18	5°35	2♋9	1°36	13♋20	28°41	15°58	28°2	26°37	27°28	28°38	4°2	
M 3	18 46 41	11°57'23	20°1	6°47	6°45	1°59	1°50	13°16	28°R41	15°59	28°4	26°38	27°25	28°45	4°8	
T 4	18 50 37	12°54'37	2°Y39	6°17	7°56	1°48	2°3	13°13	28°41	16°0	28°6	26°38	27°22	28°52	4°13	
W 5	18 54 34	13°51'51	15°0	5°50	9°6	1°37	2°17	13°9	28°41	16°1	28°7	26°R39	27°19	28°58	4°19	
T 6	18 58 30	14°49'05	27°6	5°27	10°17	1°25	2°31	13°6	28°40	16°3	28°9	26°38	27°15	29°5	4°25	
F 7	19 2 27	15°46'20	9♋4	5°7	11°27	1°12	2°44	13°2	28°40	16°4	28°10	26°38	27°12	29°12	4°30	
S 8	19 6 23	16°43'34	20°56	4°51	12°38	0°59	2°58	12°59	28°40	16°5	28°12	26°36	27°9	29°18	4°36	
S 9	19 10 20	17°40'49	2♂47	4°39	13°49	0°45	3°12	12°56	28°40	16°6	28°13	26°35	27°6	29°25	4°41	
M10	19 14 16	18°38'04	14°40	4°32	15°0	0°31	3°25	12°52	28°39	16°8	28°15	26°34	27°3	29°32	4°47	
T 11	19 18 13	19°35'19	26°39	4°D29	16°11	0°16	3°39	12°49	28°39	16°9	28°16	26°33	27°0	29°39	4°52	
W12	19 22 10	20°32'34	8♉45	4°31	17°22	0°1	3°52	12°46	28°39	16°11	28°18	26°32	26°56	29°45	4°58	
T 13	19 26 6	21°29'49	21°2	4°39	18°33	29♋45	4°6	12°43	28°38	16°12	28°20	26°D32	26°53	29°52	5°3	
F 14	19 30 3	22°27'04	3♂29	4°51	19°44	29°29	4°19	12°40	28°38	16°13	28°21	26°32	26°50	29°59	5°9	
S 15	19 33 59	23°24'19	16°10	5°9	20°55	29°13	4°33	12°37	28°37	16°15	28°23	26°32	26°47	0♂5	5°14	
S 16	19 37 56	24°21'34	29°3	5°32	22°6	28°56	4°46	12°35	28°36	16°16	28°24	26°33	26°44	0°12	5°19	
M17	19 41 52	25°18'49	12♎11	5°59	23°18	28°39	5°0	12°32	28°36	16°18	28°26	26°33	26°41	0°19	5°25	
T 18	19 45 49	26°16'04	25°33	6°33	24°29	28°22	5°13	12°29	28°35	16°20	28°28	26°R33	26°37	0°25	5°30	
W19	19 49 45	27°13'18	9♁10	7°11	25°40	28°5	5°26	12°27	28°34	16°21	28°29	26°33	26°34	0°32	5°36	
T 20	19 53 42	28°10'33	23°2	7°54	26°52	27°48	5°40	12°24	28°34	16°23	28°31	26°D33	26°31	0°39	5°41	
F 21	19 57 39	29°7'48	7♎8	8°42	28°3	27°30	5°53	12°22	28°33	16°24	28°32	26°33	26°28	0°46	5°46	
S 22	20 1 35	0♂5'03	21°26	9°36	29°14	27°13	6°6	12°20	28°32	16°26	28°34	26°33	26°25	0°52	5°52	
S 23	20 5 32	1°2'17	5♋54	10°34	0♉26	26°56	6°19	12°17	28°31	16°28	28°36	26°33	26°21	0°59	5°57	
M24	20 9 28	1°59'32	20°28	11°37	1°37	26°39	6°32	12°15	28°30	16°29	28°37	26°34	26°18	1°6	6°2	
T 25	20 13 25	2°56'48	5♋2	12°45	2°49	26°22	6°45	12°13	28°29	16°31	28°39	26°34	26°15	1°12	6°7	
W26	20 17 21	3°54'03	19°31	13°58	4°1	26°5	6°58	12°11	28°28	16°33	28°40	26°R35	26°12	1°19	6°13	
T 27	20 21 18	4°51'19	3♁50	15°15	5°13	25°48	7°11	12°10	28°27	16°34	28°42	26°35	26°9	1°26	6°18	
F 28	20 25 14	5°48'35	17°54	16°37	6°24	25°32	7°24	12°8	28°26	16°36	28°44	26°34	26°6	1°32	6°23	
S 29	20 29 11	6°45'52	1♋38	18°3	7°36	25°16	7°37	12°6	28°25	16°38	28°45	26°33	26°2	1°39	6°28	
S 30	20 33 8	7°43'09	15°1	19°34	8°48	25°0	7°50	12°5	28°23	16°40	28°47	26°32	25°59	1°46	6°33	
M31	20 37 4	8♂40'27	28♋3	21♉9	10♉0	24♋44	8♉3	12♋3	28♋22	16♎42	28♉48	26♉30	25♉56	1♂53	6♉38	

Delta T = 18m47s

AUGUST 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♇	♈	♉	♊	♋
T 1	20 41 1	9♂37'46	10°Y43	22♉48	11♉12	24°R29	8♉16	12°R 2	28°R21	16♎43	28♉50	26°R29	25♉53	1♂59	6♉43	
W 2	20 44 57	10°35'05	23°6	24°30	12°24	24♋15	8°28	12♋0	28♋19	16°45	28°51	26♉28	25°50	2°6	6°48	
T 3	20 48 54	11°32'26	5♋14	26°16	13°36	24°1	8°41	11°59	28°18	16°47	28°53	26°27	25°46	2°13	6°53	
F 4	20 52 50	12°29'48	17°12	28°6	14°48	23°47	8°54	11°58	28°17	16°49	28°55	26°D27	25°43	2°19	6°58	
S 5	20 56 47	13°27'10	29°5	29°58	16°0	23°34	9°6	11°57	28°15	16°51	28°56	26°27	25°40	2°26	7°3	
S 6	21 0 43	14°24'34	10♂56	1♂53	17°13	23°22	9°19	11°56	28°14	16°53	28°58	26°29	25°37	2°33	7°8	
M 7	21 4 40	15°21'59	22°52	3°51	18°25	23°10	9°31	11°55	28°12	16°55	28°59	26°30	25°34	2°39	7°13	
T 8	21 8 37	16°19'24	4♉55	5°50	19°37	22°59	9°44	11°54	28°11	16°57	29°1	26°32	25°31	2°46	7°17	
W 9	21 12 33	17°16'51	17°9	7°52	20°50	22°49	9°56	11°54	28°9	16°59	29°2	26°33	25°27	2°53	7°22	
T 10	21 16 30	18°14'19	29°38	9°54	22°2	22°39	10°8	11°53	28°7	17°1	29°4	26°R33	25°24	3°0	7°27	
F 11	21 20 26	19°11'48	12♂22	11°58	23°14	22°30	10°20	11°53	28°6	17°3	29°5	26°32	25°21	3°6	7°31	
S 12	21 24 23	20°9'17	25°23	14°2	24°27	22°22	10°32	11°52	28°4	17°5	29°7	26°30	25°18	3°13	7°36	
S 13	21 28 19	21°6'48	8♎40	16°6	25°40	22°14	10°44	11°52	28°2	17°7	29°8	26°27	25°15	3°20	7°41	
M14	21 32 16	22°4'19	22°13	18°11	26°52	22°8	10°56	11°52	28°0	17°9	29°10	26°24	25°12	3°26	7°45	
T 15	21 36 12	23°1'52	5♁58	20°15	28°5	22°2	11°8	11°D52	27°59	17°11	29°11	26°20	25°8	3°33	7°50	
W16	21 40 9	23°59'25	19°53	22°19	29°18	21°57	11°20	11°52	27°57	17°13	29°13	26°16	25°5	3°40	7°54	
T 17	21 44 5	24°56'59	3♎57	24°22	0♂30	21°53	11°32	11°52	27°55	17°15	29°14	26°14	25°2	3°46	7°58	
F 18	21 48 2	25°54'33	18°6	26°25	1°43	21°49	11°43	11°52	27°53	17°17	29°16	26°12	24°59	3°53	8°3	
S 19	21 51 59	26°52'09	2♋17	28°26	2°56	21°47	11°55	11°53	27°51	17°19	29°17	26°D12	24°56	4°0	8°7	
S 20	21 55 55	27°49'46	16°30	0♎27	4°9	21°45	12°7	11°53	27°49	17°21	29°19	26°13	24°52	4°6	8°11	
M21	21 59 52	28°47'23	0♋42	2°26	5°22	21°D44	12°18	11°54	27°47	17°24	29°20	26°15	24°49	4°13	8°16	
T 22	22 3 48	29°45'01	14°50	4°24	6°35	21°44	12°29	11°54	27°45	17°26	29°22	26°16	24°46	4°20	8°20	
W23	22 7 45	0♎42'41	28°52	6°21	7°48	21°45	12°41	11°55	27°43	17°28	29°23	26°R16	24°43	4°27	8°24	
T 24	22 11 41	1°40'21	12♋46	8°16	9°1	21°47	12°52	11°56	27°41	17°30	29°24	26°15	24°40	4°33	8°28	
F 25	22 15 38	2°38'03	26°29	10°10	10°14	21°49	13°3	11°57	27°39	17°32	29°26	26°12	24°37	4°40	8°32	
S 26	22 19 35	3°35'45	9♋57	12°3	11°27	21°53	13°14	11°58	27°37	17°34	29°27	26°8	24°33	4°47	8°36	
S 27	22 23 31	4°33'29	23°9	13°54	12°40	21°57	13°25	11°59	27°35	17°36	29°28	26°2	24°30	4°53	8°40	
M28	22 27 28	5°31'15	6°Y 4	15°44	13°53	22°2	13°36	12°0	27°33	17°39	29°30	25°55	24°27	5°0	8°44	
T 29	22 31 24	6°29'02	18°41	17°32	15°7	22°7	13°47	12°1	27°30	17°41	29°31	25°49	24°24	5°7	8°47	
W30	22 35 21	7°26'51	1♋2	19°19	16°20	22°14	13°57	12°2	27°28	17°43	29°32	25°43	24°21	5°13	8°51	
T 31	22 39 17	8♎24'41	13♋10	21♎5	17♂33	22♋21	14♉8	12♋4	27♋26	17♎45	29♉34	25♉38	24♉18	5♂20	8♉55	

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SWISS EPHEMERIS for the year 2428

SEPTEMBER 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	22 43 14	9♎22'33	25♋8	22♎50	18♏47	22♋29	14♁18	12♁6	27°R24	17♎47	29♁35	25°R35	24♁14	5♎27	8♁58
S 2	22 47 10	10°20'27	7♎0	24°33	20°0	22°38	14°29	12°7	27°R21	17°50	29°36	25°D34	24°11	5°33	9°2
S 3	22 51 7	11°18'22	18°51	26°14	21°14	22°48	14°39	12°9	27°19	17°52	29°38	25°E34	24°8	5°40	9°5
M 4	22 55 3	12°16'20	0♁46	27°55	22°27	22°58	14°49	12°11	27°17	17°54	29°39	25°35	24°5	5°47	9°9
T 5	22 59 0	13°14'19	12°51	29°34	23°41	23°9	14°59	12°13	27°15	17°56	29°40	25°36	24°2	5°53	9°12
W 6	23 2 57	14°12'20	25°10	1♁12	24°55	23°21	15°9	12°15	27°12	17°58	29°41	25°R37	23°58	6°0	9°15
T 7	23 6 53	15°10'22	7♎46	2°48	26°8	23°34	15°19	12°17	27°10	18°1	29°42	25°36	23°55	6°7	9°19
F 8	23 10 50	16°8'27	20°44	4°24	27°22	23°47	15°29	12°19	27°8	18°3	29°44	25°33	23°52	6°14	9°22
S 9	23 14 46	17°6'33	4♎3	5°58	28°36	24°1	15°39	12°21	27°5	18°5	29°45	25°28	23°49	6°20	9°25
S 10	23 18 43	18°4'41	17°43	7°30	29°50	24°16	15°48	12°24	27°3	18°7	29°46	25°21	23°46	6°27	9°28
M 11	23 22 39	19°2'50	1♁42	9°2	1♎3	24°31	15°57	12°26	27°1	18°10	29°47	25°13	23°43	6°34	9°31
T 12	23 26 36	20°1'01	15°55	10°32	2°17	24°47	16°7	12°29	26°58	18°12	29°48	25°4	23°39	6°40	9°34
W 13	23 30 32	20°59'14	0♎16	12°1	3°31	25°4	16°16	12°32	26°56	18°14	29°49	24°56	23°36	6°47	9°37
T 14	23 34 29	21°57'28	14°41	13°29	4°45	25°22	16°25	12°34	26°53	18°16	29°50	24°49	23°33	6°54	9°39
F 15	23 38 26	22°55'44	29°3	14°56	5°59	25°40	16°34	12°37	26°51	18°18	29°51	24°45	23°30	7°0	9°42
S 16	23 42 22	23°54'01	13♁20	16°21	7°13	25°58	16°43	12°40	26°49	18°21	29°52	24°43	23°27	7°7	9°45
S 17	23 46 19	24°52'20	27°28	17°45	8°27	26°17	16°52	12°43	26°46	18°23	29°53	24°D42	23°23	7°14	9°47
M 18	23 50 15	25°50'40	11♁26	19°8	9°41	26°37	17°0	12°46	26°44	18°25	29°54	24°43	23°20	7°20	9°50
T 19	23 54 12	26°49'02	25°15	20°29	10°55	26°58	17°9	12°50	26°41	18°27	29°55	24°R43	23°17	7°27	9°52
W 20	23 58 8	27°47'25	8♁54	21°49	12°10	27°19	17°17	12°53	26°39	18°30	29°56	24°42	23°14	7°34	9°55
T 21	0 2 5	28°45'49	22°23	23°7	13°24	27°40	17°25	12°56	26°37	18°32	29°57	24°39	23°11	7°40	9°57
F 22	0 6 1	29°44'16	5♁41	24°24	14°38	28°2	17°33	13°0	26°34	18°34	29°58	24°33	23°8	7°47	9°59
S 23	0 9 58	0♁42'44	18°48	25°40	15°52	28°25	17°41	13°3	26°32	18°36	29°59	24°25	23°4	7°54	10°1
S 24	0 13 55	1°41'14	1♎43	26°53	17°7	28°48	17°49	13°7	26°30	18°38	0♁0	24°15	23°1	8°1	10°3
M 25	0 17 51	2°39'45	14°25	28°5	18°21	29°12	17°57	13°11	26°27	18°40	0°1	24°3	22°58	8°7	10°5
T 26	0 21 48	3°38'19	26°53	29°16	19°35	29°36	18°4	13°14	26°25	18°43	0°2	23°50	22°55	8°14	10°7
W 27	0 25 44	4°36'55	9♋8	0♎24	20°50	0♁0	18°11	13°18	26°22	18°45	0°3	23°39	22°52	8°21	10°9
T 28	0 29 41	5°35'32	21°12	1°31	22°4	0°25	18°19	13°22	26°20	18°47	0°3	23°29	22°49	8°27	10°11
F 29	0 33 37	6°34'12	3♎7	2°35	23°18	0°51	18°26	13°26	26°18	18°49	0°4	23°22	22°45	8°34	10°12
S 30	0 37 34	7°32'54	14♎57	3♎37	24♎33	1♁17	18°33	13♁30	26°R15	18♎51	0♁5	23°E18	22°E42	8♎41	10°E14

Delta T = 18m48s

OCTOBER 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	0 41 30	8♁31'39	26♎46	4♎36	25♎47	1♁43	18°E40	13♁34	26°R13	18♎53	0♁6	23°R15	22°E39	8♎47	10°E16
M 2	0 45 27	9°30'25	8♁40	5°33	27°2	2°10	18°46	13°39	26°R11	18°55	0°6	23°D15	22°36	8°54	10°17
T 3	0 49 23	10°29'14	20°43	6°27	28°17	2°37	18°53	13°43	26°8	18°58	0°7	23°R15	22°33	9°1	10°18
W 4	0 53 20	11°28'05	3♎1	7°18	29°31	3°5	18°59	13°47	26°6	19°0	0°8	23°E15	22°29	9°7	10°20
T 5	0 57 17	12°26'58	15°39	8°6	0♁46	3°33	19°5	13°52	26°4	19°2	0°8	23°13	22°26	9°14	10°21
F 6	1 1 13	13°25'54	28°41	8°50	2°0	4°1	19°11	13°56	26°2	19°4	0°9	23°9	22°23	9°21	10°22
S 7	1 5 10	14°24'51	12♎10	9°30	3°15	4°30	19°17	14°1	25°59	19°6	0°10	23°2	22°20	9°27	10°23
S 8	1 9 6	15°23'51	26°5	10°6	4°30	4°59	19°23	14°6	25°57	19°8	0°10	22°53	22°17	9°34	10°24
M 9	1 13 3	16°22'53	10♁25	10°37	5°45	5°29	19°28	14°10	25°55	19°10	0°11	22°42	22°14	9°41	10°25
T 10	1 16 59	17°21'57	25°2	11°3	6°59	5°59	19°34	14°15	25°53	19°12	0°11	22°30	22°10	9°47	10°26
W 11	1 20 56	18°21'02	9♎50	11°24	8°14	6°29	19°39	14°20	25°50	19°14	0°12	22°19	22°7	9°54	10°26
T 12	1 24 52	19°20'10	24°40	11°39	9°29	7°0	19°44	14°25	25°48	19°16	0°12	22°9	22°4	10°1	10°27
F 13	1 28 49	20°19'20	9♁24	11°47	10°44	7°31	19°49	14°30	25°46	19°18	0°13	22°3	22°1	10°7	10°27
S 14	1 32 46	21°18'31	23°56	11°R48	11°59	8°2	19°53	14°35	25°44	19°20	0°13	21°59	21°58	10°14	10°28
S 15	1 36 42	22°17'45	8♁12	11°43	13°13	8°34	19°58	14°40	25°42	19°22	0°13	21°57	21°55	10°21	10°28
M 16	1 40 39	23°17'00	22°10	11°29	14°28	9°6	20°2	14°46	25°40	19°24	0°14	21°57	21°51	10°27	10°29
T 17	1 44 35	24°16'16	5♁51	11°8	15°43	9°38	20°7	14°51	25°38	19°26	0°14	21°57	21°48	10°34	10°29
W 18	1 48 32	25°15'34	19°15	10°38	16°58	10°10	20°10	14°56	25°36	19°28	0°15	21°55	21°45	10°41	10°29
T 19	1 52 28	26°14'54	2♁26	10°0	18°13	10°43	20°14	15°2	25°34	19°29	0°15	21°51	21°42	10°48	10°R29
F 20	1 56 25	27°14'16	15°24	9°14	19°28	11°16	20°18	15°7	25°32	19°31	0°15	21°45	21°39	10°54	10°29
S 21	2 0 21	28°13'40	28°11	8°20	20°43	11°50	20°21	15°13	25°30	19°33	0°15	21°35	21°35	11°1	10°29
S 22	2 4 18	29°13'05	10♎47	7°19	21°58	12°23	20°25	15°18	25°28	19°35	0°16	21°23	21°32	11°8	10°28
M 23	2 8 15	0♎12'32	23°13	6°13	23°13	12°57	20°28	15°24	25°26	19°37	0°16	21°10	21°29	11°14	10°28
T 24	2 12 11	1°12'02	5♁28	5°2	24°28	13°31	20°31	15°30	25°25	19°39	0°16	20°56	21°26	11°21	10°28
W 25	2 16 8	2°11'33	17°35	3°48	25°43	14°6	20°33	15°35	25°23	19°40	0°16	20°43	21°23	11°28	10°27
T 26	2 20 4	3°11'06	29°33	2°34	26°58	14°40	20°36	15°41	25°21	19°42	0°16	20°31	21°20	11°34	10°27
F 27	2 24 1	4°10'42	11♎25	1°21	28°13	15°15	20°38	15°47	25°19	19°44	0°16	20°23	21°16	11°41	10°26
S 28	2 27 57	5°10'20	23°12	0°12	29°28	15°50	20°40	15°53	25°18	19°45	0°16	20°17	21°13	11°48	10°25
S 29	2 31 54	6°10'00	5♁0	29♁9	0♎43	16°25	20°42	15°59	25°16	19°47	0°17	20°14	21°10	11°54	10°25
M 30	2 35 50	7°9'42	16°52	28°14	1°58	17°1	20°44	16°5	25°14	19°49	0°17	20°D13	21°7	12°1	10°24
T 31	2 39 47	8♎9'26	28°E52	27♁27	3♎14	17♁36	20°E46	16♁11	25°R13	19♎50	0°R17	20°E13	21°E4	12♎8	10°E23

Delta T = 18m48s

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SWISS EPHEMERIS for the year 2428

NOVEMBER 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	2 43 44	9♐ 9°13	11♏ 7	26°R52	4♐L29	18♐12	20♏47	16♏17	25°R11	19♐52	0°R17	20°R13	21♏ 0	12♐14	10°R22
T 2	2 47 40	10° 9'02	23°42	26♏27	5°44	18°48	20°48	16°23	25♏10	19°54	0♏17	20♏12	20°57	12°21	10♏21
F 3	2 51 37	11° 8'53	6♐41	26°13	6°59	19°24	20°49	16°29	25° 8	19°55	0°16	20° 9	20°54	12°28	10°20
S 4	2 55 33	12° 8'46	20° 9	26°D12	8°14	20° 1	20°50	16°36	25° 7	19°57	0°16	20° 4	20°51	12°34	10°18
S 5	2 59 30	13° 8'41	4♏ 6	26°21	9°29	20°38	20°50	16°42	25° 6	19°58	0°16	19°57	20°48	12°41	10°17
M 6	3 3 26	14° 8'38	18°31	26°41	10°45	21°14	20°51	16°48	25° 4	20° 0	0°16	19°47	20°45	12°48	10°15
T 7	3 7 23	15° 8'38	3♐L20	27°10	12° 0	21°51	20°R51	16°54	25° 3	20° 1	0°16	19°37	20°41	12°54	10°14
W 8	3 11 19	16° 8'39	18°25	27°49	13°15	22°28	20°51	17° 1	25° 2	20° 2	0°16	19°27	20°38	13° 1	10°12
T 9	3 15 16	17° 8'42	3♏36	28°36	14°30	23° 6	20°51	17° 7	25° 1	20° 4	0°16	19°19	20°35	13° 8	10°11
F 10	3 19 13	18° 8'47	18°41	29°30	15°46	23°43	20°50	17°14	24°59	20° 5	0°15	19°13	20°32	13°14	10° 9
S 11	3 23 9	19° 8'54	3♏33	0♐L30	17° 1	24°21	20°49	17°20	24°58	20° 7	0°15	19°10	20°29	13°21	10° 7
S 12	3 27 6	20° 9'02	18° 6	1°36	18°16	24°59	20°49	17°27	24°57	20° 8	0°15	19°D 9	20°26	13°28	10° 5
M13	3 31 2	21° 9'12	2♐15	2°47	19°31	25°37	20°48	17°33	24°56	20° 9	0°14	19° 9	20°22	13°34	10° 3
T 14	3 34 59	22° 9'24	16° 0	4° 3	20°47	26°15	20°46	17°40	24°55	20°10	0°14	19°R10	20°19	13°41	10° 1
W15	3 38 55	23° 9'36	29°24	5°21	22° 2	26°53	20°45	17°47	24°54	20°12	0°14	19°10	20°16	13°48	9°59
T 16	3 42 52	24° 9'50	12♏27	6°43	23°17	27°32	20°43	17°53	24°53	20°13	0°13	19° 8	20°13	13°54	9°57
F 17	3 46 48	25°10'06	25°14	8° 8	24°33	28°10	20°41	18° 0	24°53	20°14	0°13	19° 4	20°10	14° 1	9°55
S 18	3 50 45	26°10'23	7°46	9°34	25°48	28°49	20°39	18° 7	24°52	20°15	0°12	18°58	20° 6	14° 8	9°52
S 19	3 54 42	27°10'41	20° 7	11° 2	27° 3	29°27	20°37	18°14	24°51	20°16	0°12	18°49	20° 3	14°14	9°50
M20	3 58 38	28°11'01	2♏19	12°32	28°19	0♏ 6	20°35	18°20	24°50	20°17	0°12	18°39	20° 0	14°21	9°47
T 21	4 2 35	29°11'23	14°23	14° 3	29°34	0°45	20°32	18°27	24°50	20°18	0°11	18°29	19°57	14°28	9°45
W22	4 6 31	0♏11'46	26°21	15°35	0♏49	1°24	20°29	18°34	24°49	20°20	0°10	18°20	19°54	14°34	9°42
T 23	4 10 28	1°12'11	8♐L13	17° 7	2° 4	2° 4	20°26	18°41	24°48	20°21	0°10	18°12	19°51	14°41	9°39
F 24	4 14 24	2°12'37	20° 2	18°40	3°20	2°43	20°23	18°48	24°48	20°21	0° 9	18° 6	19°47	14°48	9°37
S 25	4 18 21	3°13'05	1♏50	20°14	4°35	3°22	20°20	18°55	24°47	20°22	0° 9	18° 2	19°44	14°54	9°34
S 26	4 22 17	4°13'35	13°40	21°48	5°51	4° 2	20°16	19° 2	24°47	20°23	0° 8	18°D 1	19°41	15° 1	9°31
M27	4 26 14	5°14'06	25°33	23°22	7° 6	4°41	20°12	19° 9	24°47	20°24	0° 8	18° 1	19°38	15° 8	9°28
T 28	4 30 11	6°14'39	7♏35	24°57	8°21	5°21	20° 8	19°16	24°46	20°25	0° 7	18° 2	19°35	15°14	9°25
W29	4 34 7	7°15'14	19°50	26°31	9°37	6° 1	20° 4	19°23	24°46	20°26	0° 6	18° 4	19°32	15°21	9°22
T 30	4 38 4	8♏15'50	2♐22	28♐ 6	10♏52	6♏41	20♏ 0	19♏30	24♏46	20♐27	0♏ 5	18°R 5	19♏28	15♐28	9♏19

Delta T = 18m49s

DECEMBER 2428

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	4 42 0	9♏16'28	15♐15	29♐L41	12♏ 7	7♏21	19°R55	19♏37	24°R46	20♐27	0°R 5	18°R 5	19♏25	15♐34	9°R16
S 2	4 45 57	10°17'08	28°35	1♏15	13°23	8° 1	19♏51	19°44	24♏46	20°28	0♏ 4	18♏ 3	19°22	15°41	9♏13
S 3	4 49 53	11°17'49	12♏23	2°50	14°38	8°41	19°46	19°51	24°46	20°29	0° 3	18° 0	19°19	15°48	9° 9
M 4	4 53 50	12°18'32	26°39	4°24	15°53	9°21	19°41	19°58	24°D46	20°29	0° 2	17°56	19°16	15°54	9° 6
T 5	4 57 46	13°19'17	11♐L22	5°59	17° 9	10° 1	19°36	20° 5	24°46	20°30	0° 2	17°50	19°12	16° 1	9° 3
W 6	5 1 43	14°20'03	26°26	7°34	18°24	10°42	19°30	20°12	24°46	20°31	0° 1	17°45	19° 9	16° 8	8°59
T 7	5 5 40	15°20'50	11♏40	9° 8	19°40	11°22	19°25	20°19	24°46	20°31	0° 0	17°41	19° 6	16°14	8°56
F 8	5 9 36	16°21'39	26°56	10°42	20°55	12° 3	19°19	20°26	24°46	20°32	29♏59	17°38	19° 3	16°21	8°52
S 9	5 13 33	17°22'28	12♏ 3	12°17	22°11	12°43	19°13	20°33	24°46	20°32	29°58	17°D36	19° 0	16°28	8°49
S 10	5 17 29	18°23'19	26°52	13°51	23°26	13°24	19° 7	20°40	24°47	20°33	29°57	17°37	18°57	16°35	8°45
M11	5 21 26	19°24'11	11♐17	15°25	24°41	14° 5	19° 1	20°47	24°47	20°33	29°56	17°38	18°53	16°41	8°42
T 12	5 25 22	20°25'03	25°15	16°59	25°57	14°45	18°55	20°54	24°47	20°33	29°55	17°39	18°50	16°48	8°38
W13	5 29 19	21°25'57	8♏47	18°33	27°12	15°26	18°48	21° 1	24°48	20°34	29°54	17°41	18°47	16°55	8°34
T 14	5 33 15	22°26'50	21°55	20° 8	28°28	16° 7	18°42	21° 9	24°48	20°34	29°53	17°R41	18°44	17° 1	8°31
F 15	5 37 12	23°27'45	4♏40	21°42	29°43	16°48	18°35	21°16	24°49	20°34	29°53	17°41	18°41	17° 8	8°27
S 16	5 41 9	24°28'40	17° 8	23°16	0♏58	17°29	18°28	21°23	24°50	20°34	29°51	17°39	18°38	17°15	8°23
S 17	5 45 5	25°29'36	29°21	24°50	2°14	18°10	18°22	21°30	24°50	20°35	29°50	17°36	18°34	17°21	8°19
M18	5 49 2	26°30'33	11♏24	26°25	3°29	18°51	18°14	21°37	24°51	20°35	29°49	17°33	18°31	17°28	8°16
T 19	5 52 58	27°31'30	23°20	27°59	4°45	19°32	18° 7	21°44	24°52	20°35	29°48	17°29	18°28	17°35	8°12
W20	5 56 55	28°32'28	5♐L11	29°33	6° 0	20°14	18° 0	21°51	24°53	20°35	29°47	17°26	18°25	17°41	8° 8
T 21	6 0 51	29°33'27	17° 0	1♏ 8	7°15	20°55	17°53	21°58	24°53	20°35	29°46	17°23	18°22	17°48	8° 4
F 22	6 4 48	0♏34'26	28°49	2°42	8°31	21°36	17°45	22° 5	24°54	20°R35	29°45	17°21	18°18	17°55	8° 0
S 23	6 8 44	1°35'26	10♏41	4°17	9°46	22°17	17°38	22°12	24°55	20°35	29°44	17°21	18°15	18° 1	7°56
S 24	6 12 41	2°36'27	22°36	5°52	11° 2	22°59	17°30	22°19	24°56	20°35	29°43	17°D20	18°12	18° 8	7°52
M25	6 16 38	3°37'28	4♏38	7°27	12°17	23°40	17°23	22°26	24°57	20°35	29°42	17°21	18° 9	18°14	7°48
T 26	6 20 34	4°38'31	16°48	9° 2	13°32	24°21	17°15	22°33	24°59	20°35	29°41	17°22	18° 6	18°21	7°44
W27	6 24 31	5°39'34	29°10	10°38	14°48	25° 3	17° 7	22°40	25° 0	20°35	29°39	17°23	18° 3	18°28	7°41
T 28	6 28 27	6°40'38	11♐47	12°13	16° 3	25°44	16°59	22°47	25° 1	20°35	29°38	17°25	17°59	18°34	7°37
F 29	6 32 24	7°41'42	24°40	13°49	17°18	26°26	16°51	22°54	25° 2	20°34	29°37	17°25	17°56	18°41	7°33
S 30	6 36 20	8°42'47	7♏55	15°25	18°34	27° 7	16°43	23° 1	25° 3	20°34	29°36	17°R25	17°53	18°48	7°29
S 31	6 40 17	9♏43'53	21♏32	17♏ 1	19♏49	27♏49	16♏35	23♏ 8	25♏ 5	20♐34	29♏35	17♏25	17♏50	18♐54	7♏25

Delta T = 18m49s

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