

SWISS EPHEMERIS for the year 2228

JANUARY 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	6 39 0	9°30'41	14°30	22°R28	25≈ 2	8°R43	6°R54	13≈ 0	9♁47	26°R19	25♁ 6	6°D26	5♁21	0♁29	7°R16
W 2	6 42 57	10°31'49	26°24	22°♁18	26°10	8♁34	6♁48	13° 6	9°49	26♁18	25° 7	6♁26	5°18	0°35	7♁15
T 3	6 46 54	11°32'58	8♁27	22°D18	27°18	8°25	6°41	13°13	9°51	26°16	25° 8	6°R27	5°15	0°42	7°14
F 4	6 50 50	12°34'07	20°46	22°26	28°25	8°18	6°34	13°19	9°53	26°14	25° 9	6°26	5°12	0°49	7°13
S 5	6 54 47	13°35'17	3♁24	22°43	29°32	8°11	6°27	13°26	9°56	26°13	25°10	6°22	5° 9	0°55	7°12
S 6	6 58 43	14°36'27	16°25	23° 8	0♁39	8° 5	6°21	13°33	9°58	26°11	25°11	6°16	5° 5	1° 2	7°12
M 7	7 2 40	15°37'37	29°48	23°39	1°46	8° 0	6°13	13°39	10° 0	26°10	25°11	6° 8	5° 2	1° 9	7°11
T 8	7 6 36	16°38'47	13♁33	24°16	2°53	7°56	6° 6	13°46	10° 2	26° 8	25°12	5°57	4°59	1°15	7°10
W 9	7 10 33	17°39'57	27°38	24°59	3°59	7°53	5°59	13°52	10° 4	26° 6	25°13	5°45	4°56	1°22	7°10
T 10	7 14 29	18°41'08	11≈55	25°47	5° 5	7°50	5°52	13°59	10° 6	26° 5	25°14	5°33	4°53	1°29	7° 9
F 11	7 18 26	19°42'18	26°21	26°39	6°11	7°48	5°44	14° 6	10° 8	26° 3	25°14	5°23	4°49	1°35	7° 9
S 12	7 22 23	20°43'27	10♁47	27°36	7°16	7°47	5°37	14°13	10°10	26° 2	25°15	5°15	4°46	1°42	7° 9
S 13	7 26 19	21°44'36	25° 9	28°35	8°22	7°D47	5°29	14°20	10°11	26° 0	25°15	5°10	4°43	1°49	7° 8
M14	7 30 16	22°45'45	9♁24	29°38	9°27	7°48	5°21	14°26	10°13	25°59	25°16	5° 8	4°40	1°55	7° 8
T 15	7 34 12	23°46'53	23°29	0♁43	10°32	7°49	5°14	14°33	10°15	25°57	25°16	5°D 7	4°37	2° 2	7° 8
W16	7 38 9	24°48'01	7♁24	1°51	11°36	7°51	5° 6	14°40	10°16	25°56	25°17	5°R 7	4°34	2° 9	7° 8
T 17	7 42 5	25°49'08	21°10	3° 1	12°40	7°54	4°58	14°47	10°18	25°55	25°17	5° 6	4°30	2°15	7° 8
F 18	7 46 2	26°50'14	4♁45	4°14	13°44	7°58	4°50	14°54	10°20	25°53	25°18	5° 4	4°27	2°22	7°D 8
S 19	7 49 58	27°51'20	18°11	5°28	14°48	8° 2	4°42	15° 1	10°21	25°52	25°18	4°58	4°24	2°29	7° 8
S 20	7 53 55	28°52'26	1♁28	6°43	15°51	8° 7	4°34	15° 8	10°22	25°50	25°18	4°49	4°21	2°35	7° 8
M21	7 57 52	29°53'30	14°33	8° 1	16°54	8°13	4°26	15°15	10°24	25°49	25°19	4°38	4°18	2°42	7° 8
T 22	8 1 48	0≈54'35	27°26	9°19	17°56	8°19	4°18	15°22	10°25	25°48	25°19	4°24	4°15	2°49	7° 8
W23	8 5 45	1°55'38	10♁ 7	10°39	18°58	8°27	4°10	15°29	10°26	25°46	25°19	4°10	4°11	2°55	7° 8
T 24	8 9 41	2°56'41	22°34	12° 0	20° 0	8°34	4° 2	15°36	10°28	25°45	25°19	3°56	4° 8	3° 2	7° 9
F 25	8 13 38	3°57'44	4♁49	13°22	21° 1	8°43	3°54	15°43	10°29	25°44	25°20	3°44	4° 5	3° 9	7° 9
S 26	8 17 34	4°58'46	16°52	14°45	22° 2	8°52	3°46	15°50	10°30	25°43	25°20	3°34	4° 2	3°15	7°10
S 27	8 21 31	5°59'47	28°46	16° 9	23° 2	9° 1	3°38	15°57	10°31	25°41	25°20	3°27	3°59	3°22	7°10
M28	8 25 27	7° 0'48	10♁34	17°34	24° 2	9°12	3°30	16° 5	10°32	25°40	25°R20	3°23	3°55	3°29	7°11
T 29	8 29 24	8° 1'49	22°22	19° 0	25° 2	9°23	3°22	16°12	10°33	25°39	25°20	3°22	3°52	3°35	7°11
W30	8 33 21	9° 2'49	4♁14	20°26	26° 1	9°34	3°14	16°19	10°34	25°38	25°20	3°21	3°49	3°42	7°12
T 31	8 37 17	10≈ 3'48	16♁15	21♁54	27♁ 0	9♁46	3♁ 6	16≈26	10♁35	25♁37	25♁20	3♁21	3♁46	3♁49	7♁13

Delta T = 08m16s

FEBRUARY 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	8 41 14	11≈ 4'47	28♁32	23♁22	27♁58	9♁59	2°R58	16≈33	10♁35	25°R36	25°R19	3°R20	3♁43	3♁55	7♁14
S 2	8 45 10	12° 5'46	11♁ 9	24°51	28°55	10°12	2♁50	16°40	10°36	25♁35	25♁19	3♁17	3°40	4° 2	7°15
S 3	8 49 7	13° 6'43	24°11	26°21	29°52	10°25	2°42	16°47	10°37	25°33	25°19	3°12	3°36	4° 9	7°16
M 4	8 53 3	14° 7'40	7♁41	27°51	0♁49	10°40	2°35	16°55	10°38	25°32	25°19	3° 4	3°33	4°15	7°17
T 5	8 57 0	15° 8'37	21°38	29°22	1°45	10°54	2°27	17° 2	10°38	25°31	25°19	2°53	3°30	4°22	7°18
W 6	9 0 56	16° 9'32	5≈59	0≈54	2°40	11° 9	2°19	17° 9	10°39	25°31	25°18	2°41	3°27	4°29	7°19
T 7	9 4 53	17°10'27	20°39	2°27	3°35	11°25	2°12	17°16	10°39	25°30	25°18	2°29	3°24	4°35	7°20
F 8	9 8 50	18°11'20	5♁31	4° 0	4°29	11°41	2° 4	17°23	10°39	25°29	25°18	2°19	3°21	4°42	7°21
S 9	9 12 46	19°12'12	20°24	5°35	5°22	11°58	1°57	17°31	10°40	25°28	25°17	2°11	3°17	4°49	7°22
S 10	9 16 43	20°13'02	5♁11	7° 9	6°15	12°15	1°49	17°38	10°40	25°27	25°17	2° 5	3°14	4°55	7°24
M11	9 20 39	21°13'52	19°45	8°45	7° 6	12°32	1°42	17°45	10°40	25°26	25°16	2° 3	3°11	5° 2	7°25
T 12	9 24 36	22°14'39	4♁ 3	10°21	7°58	12°50	1°35	17°52	10°40	25°25	25°16	2°D 2	3° 8	5° 9	7°27
W13	9 28 32	23°15'26	18° 2	11°59	8°48	13° 9	1°28	17°59	10°41	25°25	25°15	2°R 3	3° 5	5°15	7°28
T 14	9 32 29	24°16'10	1♁44	13°36	9°37	13°28	1°21	18° 7	10°41	25°24	25°15	2° 3	3° 1	5°22	7°30
F 15	9 36 25	25°16'54	15° 9	15°15	10°26	13°47	1°14	18°14	10°R41	25°23	25°14	2° 1	2°58	5°29	7°31
S 16	9 40 22	26°17'35	28°19	16°55	11°14	14° 6	1° 8	18°21	10°41	25°23	25°14	1°57	2°55	5°35	7°33
S 17	9 44 19	27°18'15	11♁15	18°35	12° 1	14°26	1° 1	18°28	10°40	25°22	25°13	1°50	2°52	5°42	7°35
M18	9 48 15	28°18'54	24° 0	20°16	12°47	14°47	0°55	18°35	10°40	25°21	25°12	1°40	2°49	5°49	7°37
T 19	9 52 12	29°19'31	6♁34	21°58	13°31	15° 8	0°48	18°42	10°40	25°21	25°12	1°29	2°46	5°55	7°38
W20	9 56 8	0♁20'06	18°57	23°41	14°15	15°29	0°42	18°49	10°40	25°20	25°11	1°17	2°42	6° 2	7°40
T 21	10 0 5	1°20'40	1♁11	25°25	14°58	15°50	0°36	18°56	10°39	25°20	25°10	1° 5	2°39	6° 9	7°42
F 22	10 4 1	2°21'12	13°15	27°10	15°40	16°12	0°30	19° 4	10°39	25°19	25° 9	0°55	2°36	6°15	7°44
S 23	10 7 58	3°21'43	25°12	28°55	16°20	16°34	0°24	19°11	10°39	25°19	25° 8	0°47	2°33	6°22	7°46
S 24	10 11 54	4°22'12	7♁ 3	0♁42	16°59	16°56	0°19	19°18	10°38	25°18	25° 7	0°41	2°30	6°29	7°48
M25	10 15 51	5°22'40	18°50	2°29	17°37	17°19	0°13	19°25	10°38	25°18	25° 7	0°38	2°27	6°35	7°50
T 26	10 19 48	6°23'07	0♁38	4°17	18°14	17°42	0° 8	19°32	10°37	25°18	25° 6	0°D38	2°23	6°42	7°53
W27	10 23 44	7°23'32	12°29	6° 6	18°49	18° 5	0° 3	19°39	10°36	25°17	25° 5	0°38	2°20	6°49	7°55
T 28	10 27 41	8°23'56	24°29	7°57	19°23	18°29	29♁58	19°46	10°36	25°17	25° 4	0°39	2°17	6°55	7°57
F 29	10 31 37	9♁24'18	6♁44	9♁48	19♁55	18♁53	29♁53	19≈53	10♁35	25♁17	25♁ 3	0°R40	2♁14	7♁ 2	7♁59

Delta T = 08m16s

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SWISS EPHEMERIS for the year 2228

MARCH 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	
S 1	10 35 34	10 <sup>h</sup> 24'39"	19 <sup>h</sup> 17'	11 <sup>h</sup> 39'	20 <sup>h</sup> 26'	19 <sup>h</sup> 17'	29°R49	19 <sup>h</sup> 59'	10°R34	25°R17	25°R 2	0°R40	2 <sup>h</sup> 11'	7 <sup>h</sup> 9'	8 <sup>h</sup> 2'
S 2	10 39 30	11°24'59"	2 <sup>h</sup> 35'	13°32'	20°56'	19°41'	29 <sup>h</sup> 54'	20° 6'	10 <sup>h</sup> 33'	25 <sup>h</sup> 11'	25 <sup>h</sup> 1'	0 <sup>h</sup> 37'	2° 7'	7°15'	8° 4'
M 3	10 43 27	12°25'18"	15°40'	15°25'	21°23'	20° 6'	29°40'	20°13'	10°32'	25°16'	24°59'	0°33'	2° 4'	7°22'	8° 7'
T 4	10 47 23	13°25'34"	29°34'	17°19'	21°49'	20°31'	29°36'	20°20'	10°31'	25°16'	24°58'	0°27'	2° 1'	7°29'	8° 9'
W 5	10 51 20	14°25'50"	13 <sup>h</sup> 57'	19°14'	22°14'	20°56'	29°32'	20°27'	10°30'	25°16'	24°57'	0°20'	1°58'	7°35'	8°12'
T 6	10 55 17	15°26'03"	28°43'	21° 9'	22°36'	21°21'	29°28'	20°34'	10°29'	25°D16	24°56'	0°13'	1°55'	7°42'	8°14'
F 7	10 59 13	16°26'15"	13 <sup>h</sup> 47'	23° 5'	22°57'	21°47'	29°24'	20°40'	10°28'	25°16'	24°55'	0° 6'	1°52'	7°49'	8°17'
S 8	11 3 10	17°26'25"	28°57'	25° 0'	23°15'	22°13'	29°21'	20°47'	10°27'	25°16'	24°54'	0° 1'	1°48'	7°55'	8°20'
S 9	11 7 6	18°26'34"	14 <sup>h</sup> 5'	26°56'	23°32'	22°39'	29°18'	20°54'	10°26'	25°16'	24°52'	29 <sup>h</sup> 58'	1°45'	8° 2'	8°22'
M10	11 11 3	19°26'40"	29° 1'	28°51'	23°47'	23° 5'	29°15'	21° 0'	10°25'	25°17'	24°51'	29°D57	1°42'	8° 9'	8°25'
T 11	11 14 59	20°26'44"	13 <sup>h</sup> 38'	0 <sup>h</sup> 46'	23°59'	23°32'	29°12'	21° 7'	10°23'	25°17'	24°50'	29°58'	1°39'	8°15'	8°28'
W12	11 18 56	21°26'46"	27°52'	2°40'	24° 9'	23°59'	29° 9'	21°14'	10°22'	25°17'	24°48'	29°59'	1°36'	8°22'	8°31'
T 13	11 22 52	22°26'46"	11 <sup>h</sup> 43'	4°32'	24°17'	24°26'	29° 7'	21°20'	10°21'	25°17'	24°47'	0 <sup>h</sup> 0'	1°32'	8°28'	8°34'
F 14	11 26 49	23°26'44"	25°10'	6°23'	24°23'	24°53'	29° 5'	21°27'	10°19'	25°17'	24°46'	0°R 1	1°29'	8°35'	8°37'
S 15	11 30 46	24°26'40"	8 <sup>h</sup> 16'	8°12'	24°26'	25°20'	29° 3'	21°33'	10°18'	25°18'	24°44'	0° 0'	1°26'	8°42'	8°39'
S 16	11 34 42	25°26'34"	21° 4'	9°59'	24°R27	25°48'	29° 1'	21°39'	10°16'	25°18'	24°43'	29 <sup>h</sup> 57'	1°23'	8°48'	8°42'
M17	11 38 39	26°26'25"	3 <sup>h</sup> 37'	11°43'	24°25'	26°16'	28°59'	21°46'	10°15'	25°18'	24°42'	29°53'	1°20'	8°55'	8°45'
T 18	11 42 35	27°26'14"	15°57'	13°23'	24°21'	26°44'	28°58'	21°52'	10°13'	25°19'	24°40'	29°48'	1°17'	9° 2'	8°49'
W19	11 46 32	28°26'01"	28° 6'	15° 0'	24°15'	27°12'	28°56'	21°58'	10°11'	25°19'	24°39'	29°42'	1°13'	9° 8'	8°52'
T 20	11 50 28	29°25'46"	10 <sup>h</sup> 8'	16°32'	24° 6'	27°40'	28°55'	22° 5'	10°10'	25°20'	24°37'	29°36'	1°10'	9°15'	8°55'
F 21	11 54 25	0 <sup>h</sup> 25'28"	22° 3'	17°59'	23°54'	28° 9'	28°54'	22°11'	10° 8'	25°20'	24°36'	29°32'	1° 7'	9°22'	8°58'
S 22	11 58 21	1°25'09"	3 <sup>h</sup> 54'	19°21'	23°40'	28°37'	28°54'	22°17'	10° 6'	25°21'	24°34'	29°28'	1° 4'	9°28'	9° 1'
S 23	12 2 18	2°24'48"	15°42'	20°37'	23°23'	29° 6'	28°53'	22°23'	10° 4'	25°21'	24°33'	29°26'	1° 1'	9°35'	9° 4'
M24	12 6 15	3°24'24"	27°30'	21°47'	23° 4'	29°35'	28°53'	22°29'	10° 2'	25°22'	24°31'	29°D25	0°58'	9°42'	9° 8'
T 25	12 10 11	4°23'59"	9 <sup>h</sup> 20'	22°51'	22°43'	0 <sup>h</sup> 4'	28°D53	22°35'	10° 1'	25°22'	24°30'	29°25'	0°54'	9°48'	9°11'
W26	12 14 8	5°23'32"	21°16'	23°47'	22°19'	0°34'	28°53'	22°41'	9°59'	25°23'	24°28'	29°26'	0°51'	9°55'	9°14'
T 27	12 18 4	6°23'04"	3 <sup>h</sup> 27'	24°37'	21°54'	1° 3'	28°53'	22°47'	9°57'	25°24'	24°26'	29°28'	0°48'	10° 2'	9°17'
F 28	12 22 1	7°22'33"	15°36'	25°19'	21°26'	1°33'	28°53'	22°53'	9°55'	25°24'	24°25'	29°30'	0°45'	10° 8'	9°21'
S 29	12 25 57	8°22'01"	28° 9'	25°53'	20°56'	2° 2'	28°54'	22°58'	9°53'	25°25'	24°23'	29°31'	0°42'	10°15'	9°24'
S 30	12 29 54	9°21'27"	11 <sup>h</sup> 3'	26°20'	20°25'	2°32'	28°55'	23° 4'	9°51'	25°26'	24°22'	29°R31	0°38'	10°22'	9°28'
M31	12 33 50	10 <sup>h</sup> 20'52"	24 <sup>h</sup> 21'	26 <sup>h</sup> 39'	19 <sup>h</sup> 52'	3 <sup>h</sup> 2'	28 <sup>h</sup> 56'	23 <sup>h</sup> 10'	9 <sup>h</sup> 49'	25 <sup>h</sup> 27'	24 <sup>h</sup> 20'	29 <sup>h</sup> 31'	0 <sup>h</sup> 35'	10 <sup>h</sup> 28'	9 <sup>h</sup> 31'

Delta T = 08m16s

APRIL 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	
T 1	12 37 47	11 <sup>h</sup> 20'14"	8 <sup>h</sup> 6'	26 <sup>h</sup> 51'	19°R17	3 <sup>h</sup> 32'	28 <sup>h</sup> 57'	23 <sup>h</sup> 15'	9°R46	25 <sup>h</sup> 28'	24°R18	29°R29	0 <sup>h</sup> 32'	10 <sup>h</sup> 35'	9 <sup>h</sup> 35'
W 2	12 41 44	12°19'35"	22°17'	26°R55	18 <sup>h</sup> 42'	4° 3'	28°59'	23°21'	9 <sup>h</sup> 44'	25°28'	24 <sup>h</sup> 17'	29 <sup>h</sup> 27'	0°29'	10°42'	9°38'
T 3	12 45 40	13°18'54"	6 <sup>h</sup> 54'	26°51'	18° 6'	4°33'	29° 0'	23°26'	9°42'	25°29'	24°15'	29°25'	0°26'	10°48'	9°42'
F 4	12 49 37	14°18'11"	21°52'	26°41'	17°29'	5° 3'	29° 2'	23°32'	9°40'	25°30'	24°13'	29°23'	0°23'	10°55'	9°45'
S 5	12 53 33	15°17'26"	7 <sup>h</sup> 2'	26°23'	16°51'	5°34'	29° 4'	23°37'	9°38'	25°31'	24°12'	29°22'	0°19'	11° 2'	9°49'
S 6	12 57 30	16°16'39"	22°15'	26° 0'	16°13'	6° 5'	29° 6'	23°43'	9°35'	25°32'	24°10'	29°D21	0°16'	11° 8'	9°52'
M 7	13 1 26	17°15'51"	7 <sup>h</sup> 22'	25°31'	15°36'	6°36'	29° 8'	23°48'	9°33'	25°33'	24° 8'	29°21'	0°13'	11°15'	9°56'
T 8	13 5 23	18°15'00"	22°13'	24°57'	14°58'	7° 7'	29°11'	23°53'	9°31'	25°34'	24° 7'	29°22'	0°10'	11°21'	9°59'
W 9	13 9 19	19°14'07"	6 <sup>h</sup> 43'	24°18'	14°21'	7°38'	29°14'	23°58'	9°29'	25°35'	24° 5'	29°22'	0° 7'	11°28'	10° 3'
T 10	13 13 16	20°13'11"	20°47'	23°37'	13°45'	8° 9'	29°17'	24° 3'	9°26'	25°37'	24° 3'	29°23'	0° 4'	11°35'	10° 7'
F 11	13 17 13	21°12'14"	4 <sup>h</sup> 24'	22°52'	13°10'	8°40'	29°20'	24° 8'	9°24'	25°38'	24° 2'	29°24'	0° 0'	11°41'	10°10'
S 12	13 21 9	22°11'14"	17°36'	22° 6'	12°36'	9°12'	29°23'	24°13'	9°21'	25°39'	24° 0'	29°R24	29 <sup>h</sup> 57'	11°48'	10°14'
S 13	13 25 6	23°10'12"	0 <sup>h</sup> 24'	21°20'	12° 4'	9°43'	29°26'	24°18'	9°19'	25°40'	23°58'	29°24'	29°54'	11°55'	10°18'
M14	13 29 2	24° 9'07"	12°54'	20°33'	11°33'	10°15'	29°30'	24°23'	9°17'	25°41'	23°57'	29°24'	29°51'	12° 1'	10°21'
T 15	13 32 59	25° 8'00"	25° 8'	19°48'	11° 4'	10°47'	29°34'	24°27'	9°14'	25°43'	23°55'	29°23'	29°48'	12° 8'	10°25'
W16	13 36 55	26° 6'51"	7 <sup>h</sup> 10'	19° 4'	10°37'	11°18'	29°38'	24°32'	9°12'	25°44'	23°53'	29°23'	29°44'	12°15'	10°29'
T 17	13 40 52	27° 5'40"	19° 4'	18°23'	10°12'	11°50'	29°42'	24°36'	9° 9'	25°45'	23°52'	29°23'	29°41'	12°21'	10°33'
F 18	13 44 48	28° 4'27"	0 <sup>h</sup> 53'	17°45'	9°49'	12°22'	29°46'	24°41'	9° 7'	25°47'	23°50'	29°22'	29°38'	12°28'	10°36'
S 19	13 48 45	29° 3'11"	12°41'	17°11'	9°28'	12°54'	29°50'	24°45'	9° 4'	25°48'	23°48'	29°D22	29°35'	12°35'	10°40'
S 20	13 52 41	0 <sup>h</sup> 1'53"	24°30'	16°41'	9°10'	13°27'	29°55'	24°50'	9° 2'	25°49'	23°47'	29°R22	29°32'	12°41'	10°44'
M21	13 56 38	1° 0'34"	6 <sup>h</sup> 12'	16°15'	8°54'	13°59'	0 <sup>h</sup> 0'	24°54'	8°59'	25°51'	23°45'	29°22'	29°29'	12°48'	10°48'
T 22	14 0 35	1°59'12"	18°19'	15°55'	8°40'	14°31'	0° 5'	24°58'	8°57'	25°52'	23°43'	29°22'	29°25'	12°55'	10°52'
W23	14 4 31	2°57'49"	0 <sup>h</sup> 23'	15°39'	8°29'	15° 4'	0°10'	25° 2'	8°54'	25°54'	23°42'	29°22'	29°22'	13° 1'	10°55'
T 24	14 8 28	3°56'24"	12°37'	15°29'	8°21'	15°36'	0°15'	25° 6'	8°52'	25°55'	23°40'	29°21'	29°19'	13° 8'	10°59'
F 25	14 12 24	4°54'58"	25° 3'	15°23'	8°15'	16° 9'	0°21'	25°10'	8°49'	25°57'	23°38'	29°21'	29°16'	13°15'	11° 3'
S 26	14 16 21	5°53'29"	7 <sup>h</sup> 34'	15°D23	8°11'	16°41'	0°26'	25°14'	8°47'	25°58'	23°37'	29°20'	29°13'	13°21'	11° 7'
S 27	14 20 17	6°51'59"	20°40'	15°28'	8°D10	17°14'	0°32'	25°18'	8°44'	26° 0'	23°35'	29°19'	29°10'	13°28'	11°11'
M28	14 24 14	7°50'28"	3 <sup>h</sup> 56'	15°37'	8°11'	17°47'	0°38'	25°21'	8°41'	26° 2'	23°33'	29°D19	29° 6'	13°35'	11°15'
T 29	14 28 11	8°48'55"	17°34'	15°52'	8°14'	18°20'	0°44'	25°25'	8°39'	26° 3'	23°32'	29°19'	29° 3'	13°41'	11°18'
W30	14 32 7	9 <sup>h</sup> 47'20"	1 <sup>h</sup> 33'	16 <sup>h</sup> 11'	8 <sup>h</sup> 20'	18 <sup>h</sup> 53'	0 <sup>h</sup> 50'	25 <sup>h</sup> 29'	8 <sup>h</sup> 36'	26 <sup>h</sup> 5'	23 <sup>h</sup> 30'	29 <sup>h</sup> 20'	29 <sup>h</sup> 0'	13 <sup>h</sup> 48'	11 <sup>h</sup> 22'

Delta T = 08m16s

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SWISS EPHEMERIS for the year 2228

MAY 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	14 36 4	10♃45'44	15♋54	16♌34	8♍28	19♎26	0♏56	25♐32	8♑R34	26♒II 7	23♓R28	29♔Y20	28♕Y57	13♖54	11♗26								
F 2	14 40 0	11°44'06	0♌33	17° 2	8°38	19°59	1° 3	25°35	8♒L31	26° 8	23♓27	29°21	28°54	14° 1	11°30								
S 3	14 43 57	12°42'26	15°27	17°35	8°51	20°32	1° 9	25°39	8°29	26°10	23°25	29°22	28°50	14° 8	11°34								
S 4	14 47 53	13°40'45	0♍29	18°11	9° 5	21° 5	1°16	25°42	8°26	26°12	23°24	29°R22	28°47	14°14	11°38								
M 5	14 51 50	14°39'02	15°29	18°51	9°21	21°39	1°23	25°45	8°24	26°13	23°22	29°22	28°44	14°21	11°42								
T 6	14 55 46	15°37'18	0♎20	19°34	9°40	22°12	1°30	25°48	8°21	26°15	23°21	29°21	28°41	14°28	11°45								
W 7	14 59 43	16°35'32	14°55	20°22	10° 0	22°46	1°37	25°51	8°18	26°17	23°19	29°19	28°38	14°34	11°49								
T 8	15 3 40	17°33'44	29° 6	21°12	10°22	23°19	1°45	25°54	8°16	26°19	23°18	29°16	28°35	14°41	11°53								
F 9	15 7 36	18°31'54	12♏52	22° 6	10°45	23°53	1°52	25°56	8°13	26°21	23°16	29°14	28°31	14°48	11°57								
S 10	15 11 33	19°30'02	26°11	23° 3	11°10	24°26	2° 0	25°59	8°11	26°23	23°15	29°12	28°28	14°54	12° 1								
S 11	15 15 29	20°28'08	9♏ 4	24° 3	11°37	25° 0	2° 7	26° 2	8° 8	26°24	23°13	29°11	28°25	15° 1	12° 5								
M12	15 19 26	21°26'12	21°36	25° 6	12° 6	25°34	2°15	26° 4	8° 6	26°26	23°12	29°D10	28°22	15° 8	12° 8								
T13	15 23 22	22°24'14	3♐49	26°12	12°36	26° 8	2°23	26° 6	8° 4	26°28	23°10	29°11	28°19	15°14	12°12								
W14	15 27 19	23°22'15	15°50	27°21	13° 7	26°42	2°31	26° 9	8° 1	26°30	23° 9	29°12	28°16	15°21	12°16								
T15	15 31 15	24°20'13	27°41	28°32	13°40	27°16	2°39	26°11	7°59	26°32	23° 7	29°13	28°12	15°28	12°20								
F16	15 35 12	25°18'10	9♑29	29°46	14°14	27°50	2°48	26°13	7°56	26°34	23° 6	29°15	28° 9	15°34	12°24								
S17	15 39 9	26°16'05	21°17	1♒ 2	14°49	28°24	2°56	26°15	7°54	26°36	23° 5	29°16	28° 6	15°41	12°27								
S18	15 43 5	27°13'58	3♒ 8	2°20	15°26	28°58	3° 5	26°17	7°52	26°38	23° 3	29°R16	28° 3	15°47	12°31								
M19	15 47 2	28°11'50	15° 7	3°42	16° 4	29°32	3°13	26°19	7°49	26°40	23° 2	29°15	28° 0	15°54	12°35								
T20	15 50 58	29° 9'41	27°14	5° 5	16°43	0♓ 6	3°22	26°20	7°47	26°42	23° 1	29°13	27°56	16° 1	12°39								
W21	15 54 55	0♓ 7'29	9♒32	6°31	17°23	0°41	3°31	26°22	7°45	26°44	23° 0	29° 9	27°53	16° 7	12°42								
T22	15 58 51	1° 5'17	22° 2	7°59	18° 4	1°15	3°40	26°23	7°42	26°46	22°58	29° 4	27°50	16°14	12°46								
F23	16 2 48	2° 3'03	4♓44	9°29	18°46	1°49	3°49	26°25	7°40	26°48	22°57	28°59	27°47	16°21	12°50								
S24	16 6 44	3° 0'48	17°40	11° 2	19°29	2°24	3°58	26°26	7°38	26°50	22°56	28°53	27°44	16°27	12°53								
S25	16 10 41	3°58'32	0♓50	12°37	20°13	2°58	4° 8	26°27	7°36	26°52	22°55	28°49	27°41	16°34	12°57								
M26	16 14 38	4°56'15	14°14	14°14	20°58	3°33	4°17	26°29	7°33	26°54	22°54	28°45	27°37	16°41	13° 1								
T27	16 18 34	5°53'57	27°52	15°54	21°44	4° 7	4°27	26°30	7°31	26°57	22°52	28°44	27°34	16°47	13° 4								
W28	16 22 31	6°51'38	11♋46	17°36	22°31	4°42	4°36	26°31	7°29	26°59	22°51	28°D44	27°31	16°54	13° 8								
T29	16 26 27	7°49'17	25°53	19°19	23°18	5°16	4°46	26°31	7°27	27° 1	22°50	28°44	27°28	17° 1	13°12								
F30	16 30 24	8°46'56	10♌14	21° 6	24° 6	5°51	4°56	26°32	7°25	27° 3	22°49	28°46	27°25	17° 7	13°15								
S31	16 34 20	9♌44'34	24♌46	22♌54	24♌55	6♌26	5♌ 6	26♓33	7♌23	27♌II 5	22♌48	28°R47	27♌Y21	17♌14	13♌19								

Delta T = 08m16s

JUNE 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	16 38 17	10♌42'11	9♍25	24♎45	25♏Y45	7♏ 1	5♐16	26♑33	7°R21	27♒II 7	22°R47	28°R46	27♓Y18	17♔21	13♕22								
M 2	16 42 13	11°39'47	24° 6	26°37	26°35	7°36	5°26	26°34	7♒L19	27° 9	22♓46	28°Y44	27°15	17°27	13°26								
T 3	16 46 10	12°37'22	8♎42	28°32	27°26	8°11	5°36	26°34	7°17	27°12	22°45	28°40	27°12	17°34	13°29								
W 4	16 50 7	13°34'56	23° 6	0♏30	28°18	8°46	5°46	26°34	7°15	27°14	22°44	28°34	27° 9	17°41	13°33								
T 5	16 54 3	14°32'29	7♏13	2°29	29°10	9°21	5°57	26°35	7°13	27°16	22°44	28°27	27° 6	17°47	13°36								
F 6	16 58 0	15°30'01	20°57	4°30	0♒ 3	9°56	6° 7	26°R35	7°11	27°18	22°43	28°19	27° 2	17°54	13°40								
S 7	17 1 56	16°27'32	4♏18	6°33	0°56	10°31	6°18	26°35	7°10	27°20	22°42	28°12	26°59	18° 0	13°43								
S 8	17 5 53	17°25'01	17°14	8°38	1°50	11° 6	6°28	26°34	7° 8	27°23	22°41	28° 7	26°56	18° 7	13°46								
M 9	17 9 49	18°22'29	29°47	10°44	2°45	11°41	6°39	26°34	7° 6	27°25	22°40	28° 3	26°53	18°14	13°50								
T10	17 13 46	19°19'56	12♐ 2	12°53	3°40	12°16	6°50	26°34	7° 4	27°27	22°40	28° 1	26°50	18°20	13°53								
W11	17 17 42	20°17'22	24° 3	15° 2	4°35	12°52	7° 1	26°33	7° 3	27°29	22°39	28°D 1	26°47	18°27	13°56								
T12	17 21 39	21°14'46	5♑55	17°12	5°31	13°27	7°12	26°33	7° 1	27°31	22°38	28° 2	26°43	18°34	14° 0								
F13	17 25 36	22°12'10	17°43	19°23	6°27	14° 2	7°23	26°32	7° 0	27°34	22°37	28° 3	26°40	18°40	14° 3								
S14	17 29 32	23° 9'32	29°32	21°35	7°24	14°38	7°34	26°32	6°58	27°36	22°37	28°R 3	26°37	18°47	14° 6								
S15	17 33 29	24° 6'54	11♒28	23°47	8°21	15°13	7°45	26°31	6°57	27°38	22°36	28° 2	26°34	18°54	14° 9								
M16	17 37 25	25° 4'15	23°33	25°59	9°19	15°48	7°56	26°30	6°55	27°40	22°36	27°59	26°31	19° 0	14°12								
T17	17 41 22	26° 1'34	5♒51	28°11	10°17	16°24	8° 8	26°29	6°54	27°43	22°35	27°54	26°27	19° 7	14°15								
W18	17 45 18	26°58'54	18°24	0♓22	11°15	17° 0	8°19	26°28	6°53	27°45	22°35	27°46	26°24	19°14	14°18								
T19	17 49 15	27°56'12	1♓13	2°33	12°14	17°35	8°31	26°26	6°51	27°47	22°34	27°37	26°21	19°20	14°22								
F20	17 53 11	28°53'30	14°17	4°43	13°13	18°11	8°42	26°25	6°50	27°49	22°34	27°26	26°18	19°27	14°25								
S21	17 57 8	29°50'47	27°35	6°51	14°13	18°46	8°54	26°24	6°49	27°52	22°33	27°16	26°15	19°34	14°28								
S22	18 1 5	0♓48'04	11♓ 5	8°58	15°13	19°22	9° 5	26°22	6°48	27°54	22°33	27° 7	26°12	19°40	14°30								
M23	18 5 1	1°45'20	24°47	11° 3	16°13	19°58	9°17	26°21	6°46	27°56	22°33	27° 0	26° 8	19°47	14°33								
T24	18 8 58	2°42'36	8♋37	13° 7	17°13	20°34	9°29	26°19	6°45	27°58	22°32	26°56	26° 5	19°53	14°36								
W25	18 12 54	3°39'52	22°34	15° 8	18°14	21° 9	9°41	26°17	6°44	28° 1	22°32	26°54	26° 2	20° 0	14°39								
T26	18 16 51	4°37'08	6♌38	17° 8	19°15	21°45	9°52	26°15	6°43	28° 3	22°32	26°D53	25°59	20° 7	14°42								
F27	18 20 47	5°34'24	20°47	19° 6	20°17	22°21	10° 4	26°14	6°42	28° 5	22°32	26°R53	25°56	20°13	14°45								
S28	18 24 44	6°31'39	5♍ 1	21° 2	21°18	22°57	10°16	26°11	6°42	28° 7	22°31	26°53	25°53	20°20	14°47								
S29	18 28 40	7°28'55	19°17	22°56	22°20	23°33	10°28	26° 9	6°41	28° 9	22°31	26°52	25°49	20°27	14°50								
M30	18 32 37	8♓26'11	3♓33	24♓47	23♓R23	24♓ 9	10♓41	26♓ 7	6♓L40	28♓II12	22♓31	26°Y47	25°Y46	20♓33	14♓53								

Delta T = 08m17s

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SWISS EPHEMERIS for the year 2228

JULY 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	18 36 34	9 <sup>h</sup> 23'26"	17 <sup>h</sup> 11'45"	26 <sup>h</sup> 37'	24 <sup>h</sup> 25'	24 <sup>h</sup> 45'	10 <sup>h</sup> 53'	26 <sup>h</sup> R 5	6 <sup>h</sup> R39	28 <sup>h</sup> II14	22 <sup>h</sup> R31	26 <sup>h</sup> R41	25 <sup>h</sup> Y43	20 <sup>h</sup> 40	14 <sup>h</sup> 855
W 2	18 40 30	10 <sup>h</sup> 20'42"	1 <sup>h</sup> 48'	28 <sup>h</sup> 24'	25 <sup>h</sup> 28'	25 <sup>h</sup> 21'	11 <sup>h</sup> 5'	26 <sup>h</sup> 3	6 <sup>h</sup> III39	28 <sup>h</sup> 16'	22 <sup>h</sup> D31	26 <sup>h</sup> Y31	25 <sup>h</sup> 40	20 <sup>h</sup> 47	14 <sup>h</sup> 58
T 3	18 44 27	11 <sup>h</sup> 17'57"	15 <sup>h</sup> 38'	0 <sup>h</sup> 9'	26 <sup>h</sup> 31'	25 <sup>h</sup> 57'	11 <sup>h</sup> 17'	26 <sup>h</sup> 0	6 <sup>h</sup> 38	28 <sup>h</sup> 18'	22 <sup>h</sup> 31	26 <sup>h</sup> 20	25 <sup>h</sup> 37	20 <sup>h</sup> 53	15 <sup>h</sup> 0
F 4	18 48 23	12 <sup>h</sup> 15'12"	29 <sup>h</sup> 10'	1 <sup>h</sup> 52'	27 <sup>h</sup> 34'	26 <sup>h</sup> 34'	11 <sup>h</sup> 29'	25 <sup>h</sup> 58'	6 <sup>h</sup> 37	28 <sup>h</sup> 20'	22 <sup>h</sup> 31	26 <sup>h</sup> 9	25 <sup>h</sup> 34	21 <sup>h</sup> 0	15 <sup>h</sup> 3
S 5	18 52 20	13 <sup>h</sup> 12'27"	12 <sup>h</sup> 23'	3 <sup>h</sup> 33'	28 <sup>h</sup> 38'	27 <sup>h</sup> 10'	11 <sup>h</sup> 42'	25 <sup>h</sup> 55'	6 <sup>h</sup> 37	28 <sup>h</sup> 23'	22 <sup>h</sup> 31	25 <sup>h</sup> 57	25 <sup>h</sup> 30	21 <sup>h</sup> 7	15 <sup>h</sup> 5
S 6	18 56 16	14 <sup>h</sup> 9'41"	25 <sup>h</sup> 14'	5 <sup>h</sup> 11'	29 <sup>h</sup> 41'	27 <sup>h</sup> 46'	11 <sup>h</sup> 54'	25 <sup>h</sup> 52'	6 <sup>h</sup> 36	28 <sup>h</sup> 25'	22 <sup>h</sup> 31	25 <sup>h</sup> 48	25 <sup>h</sup> 27	21 <sup>h</sup> 13	15 <sup>h</sup> 8
M 7	19  0 13	15 <sup>h</sup> 6'55"	7 <sup>h</sup> 45'	6 <sup>h</sup> 48'	0 <sup>h</sup> II45	28 <sup>h</sup> 22'	12 <sup>h</sup> 7'	25 <sup>h</sup> 49'	6 <sup>h</sup> 36	28 <sup>h</sup> 27'	22 <sup>h</sup> 31	25 <sup>h</sup> 41	25 <sup>h</sup> 24	21 <sup>h</sup> 20	15 <sup>h</sup> 10
T 8	19  4 10	16 <sup>h</sup> 4'09"	19 <sup>h</sup> 59'	8 <sup>h</sup> 22'	1 <sup>h</sup> 49'	28 <sup>h</sup> 59'	12 <sup>h</sup> 19'	25 <sup>h</sup> 47'	6 <sup>h</sup> 35	28 <sup>h</sup> 29'	22 <sup>h</sup> 32	25 <sup>h</sup> 36	25 <sup>h</sup> 21	21 <sup>h</sup> 26	15 <sup>h</sup> 12
W 9	19  8  6	17 <sup>h</sup> 1'23"	2 <sup>h</sup> 0	9 <sup>h</sup> 54'	2 <sup>h</sup> 53'	29 <sup>h</sup> 35'	12 <sup>h</sup> 32'	25 <sup>h</sup> 44'	6 <sup>h</sup> 35	28 <sup>h</sup> 31'	22 <sup>h</sup> 32	25 <sup>h</sup> 34	25 <sup>h</sup> 18	21 <sup>h</sup> 33	15 <sup>h</sup> 14
T 10	19 12  3	17 <sup>h</sup> 58'36"	13 <sup>h</sup> 52'	11 <sup>h</sup> 23'	3 <sup>h</sup> 58'	0 <sup>h</sup> III11	12 <sup>h</sup> 44'	25 <sup>h</sup> 41'	6 <sup>h</sup> 35	28 <sup>h</sup> 33'	22 <sup>h</sup> 32	25 <sup>h</sup> 33	25 <sup>h</sup> 14	21 <sup>h</sup> 40	15 <sup>h</sup> 17
F 11	19 15 59	18 <sup>h</sup> 55'49"	25 <sup>h</sup> 40'	12 <sup>h</sup> 51'	5 <sup>h</sup> 3'	0 <sup>h</sup> 48'	12 <sup>h</sup> 57'	25 <sup>h</sup> 38'	6 <sup>h</sup> 35	28 <sup>h</sup> 36'	22 <sup>h</sup> 32	25 <sup>h</sup> 33	25 <sup>h</sup> 11	21 <sup>h</sup> 46	15 <sup>h</sup> 19
S 12	19 19 56	19 <sup>h</sup> 53'02"	7 <sup>h</sup> III31	14 <sup>h</sup> 16'	6 <sup>h</sup> 7'	1 <sup>h</sup> 24'	13 <sup>h</sup> 9'	25 <sup>h</sup> 34'	6 <sup>h</sup> 34	28 <sup>h</sup> 38'	22 <sup>h</sup> 33	25 <sup>h</sup> 32	25 <sup>h</sup> 8	21 <sup>h</sup> 53	15 <sup>h</sup> 21
S 13	19 23 52	20 <sup>h</sup> 50'15"	19 <sup>h</sup> 29'	15 <sup>h</sup> 39'	7 <sup>h</sup> 13'	2 <sup>h</sup> 1'	13 <sup>h</sup> 22'	25 <sup>h</sup> 31'	6 <sup>h</sup> 34	28 <sup>h</sup> 40'	22 <sup>h</sup> 33	25 <sup>h</sup> 31	25 <sup>h</sup> 5	22 <sup>h</sup> 0	15 <sup>h</sup> 23
M 14	19 27 49	21 <sup>h</sup> 47'28"	1 <sup>h</sup> 39'	16 <sup>h</sup> 59'	8 <sup>h</sup> 18'	2 <sup>h</sup> 37'	13 <sup>h</sup> 35'	25 <sup>h</sup> 28'	6 <sup>h</sup> 34	28 <sup>h</sup> 42'	22 <sup>h</sup> 33	25 <sup>h</sup> 27	25 <sup>h</sup> 2	22 <sup>h</sup> 6	15 <sup>h</sup> 25
T 15	19 31 45	22 <sup>h</sup> 44'40"	14 <sup>h</sup> 5'	18 <sup>h</sup> 17'	9 <sup>h</sup> 23'	3 <sup>h</sup> 14'	13 <sup>h</sup> 48'	25 <sup>h</sup> 25'	6 <sup>h</sup> D34	28 <sup>h</sup> 44'	22 <sup>h</sup> 34	25 <sup>h</sup> 21	24 <sup>h</sup> 59	22 <sup>h</sup> 13	15 <sup>h</sup> 27
W 16	19 35 42	23 <sup>h</sup> 41'53"	26 <sup>h</sup> 50'	19 <sup>h</sup> 33'	10 <sup>h</sup> 29'	3 <sup>h</sup> 51'	14 <sup>h</sup> 0'	25 <sup>h</sup> 21'	6 <sup>h</sup> 34	28 <sup>h</sup> 46'	22 <sup>h</sup> 34	25 <sup>h</sup> 12	24 <sup>h</sup> 55	22 <sup>h</sup> 20	15 <sup>h</sup> 29
T 17	19 39 39	24 <sup>h</sup> 39'06"	9 <sup>h</sup> 35'	20 <sup>h</sup> 46'	11 <sup>h</sup> 35'	4 <sup>h</sup> 27'	14 <sup>h</sup> 13'	25 <sup>h</sup> 18'	6 <sup>h</sup> 34	28 <sup>h</sup> 48'	22 <sup>h</sup> 35	25 <sup>h</sup> 1	24 <sup>h</sup> 52	22 <sup>h</sup> 26	15 <sup>h</sup> 31
F 18	19 43 35	25 <sup>h</sup> 36'19"	23 <sup>h</sup> 20'	21 <sup>h</sup> 56'	12 <sup>h</sup> 40'	5 <sup>h</sup> 4'	14 <sup>h</sup> 26'	25 <sup>h</sup> 14'	6 <sup>h</sup> 35	28 <sup>h</sup> 50'	22 <sup>h</sup> 35	24 <sup>h</sup> 49	24 <sup>h</sup> 49	22 <sup>h</sup> 33	15 <sup>h</sup> 33
S 19	19 47 32	26 <sup>h</sup> 33'33"	7 <sup>h</sup> 2	23 <sup>h</sup> 4'	13 <sup>h</sup> 47'	5 <sup>h</sup> 41'	14 <sup>h</sup> 39'	25 <sup>h</sup> 10'	6 <sup>h</sup> 35	28 <sup>h</sup> 52'	22 <sup>h</sup> 36	24 <sup>h</sup> 37	24 <sup>h</sup> 46	22 <sup>h</sup> 40	15 <sup>h</sup> 34
S 20	19 51 28	27 <sup>h</sup> 30'46"	20 <sup>h</sup> 58'	24 <sup>h</sup> 10'	14 <sup>h</sup> 53'	6 <sup>h</sup> 17'	14 <sup>h</sup> 52'	25 <sup>h</sup> 7'	6 <sup>h</sup> 35	28 <sup>h</sup> 54'	22 <sup>h</sup> 36	24 <sup>h</sup> 26	24 <sup>h</sup> 43	22 <sup>h</sup> 46	15 <sup>h</sup> 36
M 21	19 55 25	28 <sup>h</sup> 28'01"	5 <sup>h</sup> 3	25 <sup>h</sup> 12'	15 <sup>h</sup> 59'	6 <sup>h</sup> 54'	15 <sup>h</sup> 5'	25 <sup>h</sup> 3'	6 <sup>h</sup> 35	28 <sup>h</sup> 56'	22 <sup>h</sup> 37	24 <sup>h</sup> 17	24 <sup>h</sup> 40	22 <sup>h</sup> 53	15 <sup>h</sup> 38
T 22	19 59 21	29 <sup>h</sup> 25'15"	19 <sup>h</sup> 14'	26 <sup>h</sup> 12'	17 <sup>h</sup> 6'	7 <sup>h</sup> 31'	15 <sup>h</sup> 17'	24 <sup>h</sup> 59'	6 <sup>h</sup> 36	28 <sup>h</sup> 58'	22 <sup>h</sup> 38	24 <sup>h</sup> 12	24 <sup>h</sup> 36	23 <sup>h</sup> 0	15 <sup>h</sup> 40
W 23	20  3 18	0 <sup>h</sup> 22'31"	3 <sup>h</sup> Y26	27 <sup>h</sup> 8'	18 <sup>h</sup> 13'	8 <sup>h</sup> 8'	15 <sup>h</sup> 30'	24 <sup>h</sup> 55'	6 <sup>h</sup> 36	29 <sup>h</sup> 0'	22 <sup>h</sup> 38	24 <sup>h</sup> 9	24 <sup>h</sup> 33	23 <sup>h</sup> 6	15 <sup>h</sup> 41
T 24	20  7 14	1 <sup>h</sup> 19'47"	17 <sup>h</sup> 38'	28 <sup>h</sup> 2'	19 <sup>h</sup> 19'	8 <sup>h</sup> 45'	15 <sup>h</sup> 43'	24 <sup>h</sup> 52'	6 <sup>h</sup> 36	29 <sup>h</sup> 2'	22 <sup>h</sup> 39	24 <sup>h</sup> 8	24 <sup>h</sup> 30	23 <sup>h</sup> 13	15 <sup>h</sup> 43
F 25	20 11 11	2 <sup>h</sup> 17'03"	1 <sup>h</sup> 46'	28 <sup>h</sup> 52'	20 <sup>h</sup> 26'	9 <sup>h</sup> 22'	15 <sup>h</sup> 56'	24 <sup>h</sup> 48'	6 <sup>h</sup> 37	29 <sup>h</sup> 4'	22 <sup>h</sup> 40	24 <sup>h</sup> 8	24 <sup>h</sup> 27	23 <sup>h</sup> 19	15 <sup>h</sup> 44
S 26	20 15  8	3 <sup>h</sup> 14'21"	15 <sup>h</sup> 51'	29 <sup>h</sup> 39'	21 <sup>h</sup> 34'	9 <sup>h</sup> 59'	16 <sup>h</sup> 9'	24 <sup>h</sup> 44'	6 <sup>h</sup> 38	29 <sup>h</sup> 6'	22 <sup>h</sup> 40	24 <sup>h</sup> 7	24 <sup>h</sup> 24	23 <sup>h</sup> 26	15 <sup>h</sup> 46
S 27	20 19  4	4 <sup>h</sup> 11'40"	29 <sup>h</sup> 51'	0 <sup>h</sup> III22	22 <sup>h</sup> 41'	10 <sup>h</sup> 36'	16 <sup>h</sup> 22'	24 <sup>h</sup> 40'	6 <sup>h</sup> 38	29 <sup>h</sup> 8'	22 <sup>h</sup> 41	24 <sup>h</sup> 5	24 <sup>h</sup> 20	23 <sup>h</sup> 33	15 <sup>h</sup> 47
M 28	20 23  1	5 <sup>h</sup> 8'59"	13 <sup>h</sup> II46	1 <sup>h</sup> 2'	23 <sup>h</sup> 48'	11 <sup>h</sup> 13'	16 <sup>h</sup> 36'	24 <sup>h</sup> 36'	6 <sup>h</sup> 39	29 <sup>h</sup> 10'	22 <sup>h</sup> 42	24 <sup>h</sup> 1	24 <sup>h</sup> 17	23 <sup>h</sup> 39	15 <sup>h</sup> 48
T 29	20 26 57	6 <sup>h</sup> 6'20"	27 <sup>h</sup> 34'	1 <sup>h</sup> 37'	24 <sup>h</sup> 56'	11 <sup>h</sup> 50'	16 <sup>h</sup> 49'	24 <sup>h</sup> 31'	6 <sup>h</sup> 39	29 <sup>h</sup> 12'	22 <sup>h</sup> 43	23 <sup>h</sup> 54	24 <sup>h</sup> 14	23 <sup>h</sup> 46	15 <sup>h</sup> 49
W 30	20 30 54	7 <sup>h</sup> 3'41"	11 <sup>h</sup> 12'	2 <sup>h</sup> 9'	26 <sup>h</sup> 4'	12 <sup>h</sup> 27'	17 <sup>h</sup> 2'	24 <sup>h</sup> 27'	6 <sup>h</sup> 40	29 <sup>h</sup> 14'	22 <sup>h</sup> 44	23 <sup>h</sup> 45	24 <sup>h</sup> 11	23 <sup>h</sup> 53	15 <sup>h</sup> 51
T 31	20 34 50	8 <sup>h</sup> 1'03"	24 <sup>h</sup> 38'	2 <sup>h</sup> 37'	27 <sup>h</sup> II12	13 <sup>h</sup> III4	17 <sup>h</sup> 15'	24 <sup>h</sup> 23'	6 <sup>h</sup> 41	29 <sup>h</sup> II16	22 <sup>h</sup> 45	23 <sup>h</sup> Y33	24 <sup>h</sup> Y 8	23 <sup>h</sup> 59	15 <sup>h</sup> 52

Delta T = 08m17s

AUGUST 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	20 38 47	8 <sup>h</sup> 58'26"	7 <sup>h</sup> 50'	3 <sup>h</sup> III 0	28 <sup>h</sup> II20	13 <sup>h</sup> III41	17 <sup>h</sup> 18'	24 <sup>h</sup> R19	6 <sup>h</sup> III42	29 <sup>h</sup> II17	22 <sup>h</sup> 46	23 <sup>h</sup> R21	24 <sup>h</sup> Y 5	24 <sup>h</sup> 6	15 <sup>h</sup> 853
S 2	20 42 43	9 <sup>h</sup> 55'49"	20 <sup>h</sup> 46'	3 <sup>h</sup> 19'	29 <sup>h</sup> 28'	14 <sup>h</sup> 19'	17 <sup>h</sup> 41'	24 <sup>h</sup> 15'	6 <sup>h</sup> 43	29 <sup>h</sup> 19'	22 <sup>h</sup> 47	23 <sup>h</sup> Y10	24 <sup>h</sup> 1	24 <sup>h</sup> 13	15 <sup>h</sup> 54
S 3	20 46 40	10 <sup>h</sup> 53'13"	3 <sup>h</sup> III26	3 <sup>h</sup> 33'	0 <sup>h</sup> 36	14 <sup>h</sup> 56'	17 <sup>h</sup> 54'	24 <sup>h</sup> 10'	6 <sup>h</sup> 44	29 <sup>h</sup> 21'	22 <sup>h</sup> 48	23 <sup>h</sup> 0	23 <sup>h</sup> 58	24 <sup>h</sup> 19	15 <sup>h</sup> 55
M 4	20 50 37	11 <sup>h</sup> 50'38"	15 <sup>h</sup> 50'	3 <sup>h</sup> 42'	1 <sup>h</sup> 44'	15 <sup>h</sup> 33'	18 <sup>h</sup> 7'	24 <sup>h</sup> 6'	6 <sup>h</sup> 45	29 <sup>h</sup> 23'	22 <sup>h</sup> 49	22 <sup>h</sup> 52	23 <sup>h</sup> 55	24 <sup>h</sup> 26	15 <sup>h</sup> 56
T 5	20 54 33	12 <sup>h</sup> 48'03"	27 <sup>h</sup> 59'	3 <sup>h</sup> R46	2 <sup>h</sup> 53'	16 <sup>h</sup> 11'	18 <sup>h</sup> 21'	24 <sup>h</sup> 2'	6 <sup>h</sup> 46	29 <sup>h</sup> 24'	22 <sup>h</sup> 50	22 <sup>h</sup> 47	23 <sup>h</sup> 52	24 <sup>h</sup> 33	15 <sup>h</sup> 57
W 6	20 58 30	13 <sup>h</sup> 45'29"	9 <sup>h</sup> 57'	3 <sup>h</sup> 46'	4 <sup>h</sup> 1'	16 <sup>h</sup> 48'	18 <sup>h</sup> 34'	23 <sup>h</sup> 57'	6 <sup>h</sup> 47	29 <sup>h</sup> 26'	22 <sup>h</sup> 51	22 <sup>h</sup> 44	23 <sup>h</sup> 49	24 <sup>h</sup> 39	15 <sup>h</sup> 58
T 7	21  2 26	14 <sup>h</sup> 42'56"	21 <sup>h</sup> 47'	3 <sup>h</sup> 40'	5 <sup>h</sup> 10'	17 <sup>h</sup> 25'	18 <sup>h</sup> 47'	23 <sup>h</sup> 53'	6 <sup>h</sup> 48	29 <sup>h</sup> 28'	22 <sup>h</sup> 52	22 <sup>h</sup> D43	23 <sup>h</sup> 45	24 <sup>h</sup> 46	15 <sup>h</sup> 58
F 8	21  6 23	15 <sup>h</sup> 40'23"	31 <sup>h</sup> 35'	3 <sup>h</sup> 28'	6 <sup>h</sup> 19'	18 <sup>h</sup> 3'	19 <sup>h</sup> 0'	23 <sup>h</sup> 58'	6 <sup>h</sup> 49	29 <sup>h</sup> 30'	22 <sup>h</sup> 53	22 <sup>h</sup> 44	23 <sup>h</sup> 42	24 <sup>h</sup> 52	15 <sup>h</sup> 59
S 9	21 10 19	16 <sup>h</sup> 37'52"	15 <sup>h</sup> 25'	3 <sup>h</sup> 12'	7 <sup>h</sup> 28'	18 <sup>h</sup> 40'	19 <sup>h</sup> 13'	23 <sup>h</sup> 44'	6 <sup>h</sup> 51	29 <sup>h</sup> 31'	22 <sup>h</sup> 55	22 <sup>h</sup> R44	23 <sup>h</sup> 39	24 <sup>h</sup> 59	16 <sup>h</sup> 0
S 10	21 14 16	17 <sup>h</sup> 35'20"	27 <sup>h</sup> 23'	2 <sup>h</sup> 50'	8 <sup>h</sup> 37'	19 <sup>h</sup> 18'	19 <sup>h</sup> 26'	23 <sup>h</sup> 39'	6 <sup>h</sup> 52	29 <sup>h</sup> 33'	22 <sup>h</sup> 56	22 <sup>h</sup> 44	23 <sup>h</sup> 36	25 <sup>h</sup> 6	16 <sup>h</sup> 0
M 11	21 18 12	18 <sup>h</sup> 32'50"	9 <sup>h</sup> 35'	2 <sup>h</sup> 23'	9 <sup>h</sup> 46'	19 <sup>h</sup> 56'	19 <sup>h</sup> 40'	23 <sup>h</sup> 35'	6 <sup>h</sup> 53	29 <sup>h</sup> 34'	22 <sup>h</sup> 57	22 <sup>h</sup> 41	23 <sup>h</sup> 33	25 <sup>h</sup> 12	16 <sup>h</sup> 1
T 12	21 22  9	19 <sup>h</sup> 30'20"	22 <sup>h</sup> 4'	1 <sup>h</sup> 52'	10 <sup>h</sup> 55'	20 <sup>h</sup> 33'	19 <sup>h</sup> 53'	23 <sup>h</sup> 31'	6 <sup>h</sup> 55	29 <sup>h</sup> 36'	22 <sup>h</sup> 58	22 <sup>h</sup> 37	23 <sup>h</sup> 30	25 <sup>h</sup> 19	16 <sup>h</sup> 1
W 13	21 26  6	20 <sup>h</sup> 27'52"	4 <sup>h</sup> 35'	1 <sup>h</sup> 16'	12 <sup>h</sup> 4'	21 <sup>h</sup> 11'	20 <sup>h</sup> 6'	23 <sup>h</sup> 26'	6 <sup>h</sup> 56	29 <sup>h</sup> 38'	23 <sup>h</sup> 0	22 <sup>h</sup> 31	23 <sup>h</sup> 26	25 <sup>h</sup> 26	16 <sup>h</sup> 2
T 14	21 30  2	21 <sup>h</sup> 25'24"	18 <sup>h</sup> 10'	0 <sup>h</sup> 35'	13 <sup>h</sup> 14'	21 <sup>h</sup> 49'	20 <sup>h</sup> 19'	23 <sup>h</sup> 22'	6 <sup>h</sup> 58	29 <sup>h</sup> 39'	23 <sup>h</sup> 1	22 <sup>h</sup> 22	23 <sup>h</sup> 23	25 <sup>h</sup> 32	16 <sup>h</sup> 2
F 15	21 33 59	22 <sup>h</sup> 22'57"	1 <sup>h</sup> 49'	29 <sup>h</sup> II52	14 <sup>h</sup> 23'	22 <sup>h</sup> 26'	20 <sup>h</sup> 32'	23 <sup>h</sup> 17'	6 <sup>h</sup> 59	29 <sup>h</sup> 41'	23 <sup>h</sup> 2	22 <sup>h</sup> 13	23 <sup>h</sup> 20	25 <sup>h</sup> 39	16 <sup>h</sup> 3
S 16	21 37 55	23 <sup>h</sup> 20'31"	15 <sup>h</sup> 49'	2 <sup>h</sup> 9'	15 <sup>h</sup> 33'	23 <sup>h</sup> 4'	20 <sup>h</sup> 46'	23 <sup>h</sup> 13'	7 <sup>h</sup> 1	29 <sup>h</sup> 42'	23 <sup>h</sup> 4	22 <sup>h</sup> 3	23 <sup>h</sup> 17	25 <sup>h</sup> 46	16<

SWISS EPHEMERIS for the year 2228

SEPTEMBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	22 41 0	8 <sup>h</sup> 44'52	24 <sup>m</sup> 14	21 <sup>o</sup> 54	4 <sup>o</sup> 21	3 <sup>o</sup> 14	24 <sup>o</sup> 15	22 <sup>o</sup> R 2	7 <sup>h</sup> 33	0 <sup>o</sup> 3	23 <sup>o</sup> 30	20 <sup>o</sup> R55	22 <sup>o</sup> Y26	27 <sup>o</sup> 32	15 <sup>o</sup> R59		
T 2	22 44 57	9°42'51	6 <sup>h</sup> 15	22°21	5°32	3°53	24°28	21 <sup>o</sup> ≈58	7°36	0° 4	23°32	20 <sup>o</sup> Y52	22°23	27°39	15 <sup>o</sup> ≈58		
W 3	22 48 53	10°40'52	18° 9	22°56	6°44	4°31	24°41	21°54	7°38	0° 5	23°34	20°D51	22°20	27°45	15°58		
T 4	22 52 50	11°38'55	29°57	23°39	7°55	5°10	24°54	21°50	7°41	0° 6	23°36	20°51	22°17	27°52	15°57		
F 5	22 56 46	12°36'58	11 <sup>h</sup> 43	24°30	9° 6	5°48	25° 7	21°46	7°43	0° 6	23°38	20°53	22°13	27°59	15°56		
S 6	23 0 43	13°35'04	23°33	25°28	10°18	6°27	25°20	21°41	7°46	0° 7	23°39	20°54	22°10	28° 5	15°55		
S 7	23 4 39	14°33'10	5 <sup>h</sup> 30	26°33	11°30	7° 6	25°33	21°38	7°48	0° 8	23°41	20°56	22° 7	28°12	15°54		
M 8	23 8 36	15°31'19	17°40	27°45	12°41	7°44	25°45	21°34	7°51	0° 9	23°43	20°R56	22° 4	28°18	15°53		
T 9	23 12 33	16°29'28	0 <sup>h</sup> 7	29° 3	13°53	8°23	25°58	21°30	7°53	0°10	23°45	20°55	22° 1	28°25	15°52		
W10	23 16 29	17°27'39	12°57	0 <sup>h</sup> 26	15° 5	9° 2	26°11	21°26	7°56	0°11	23°47	20°53	21°57	28°32	15°51		
T 11	23 20 26	18°25'52	26°12	1°55	16°17	9°41	26°24	21°22	7°59	0°11	23°49	20°49	21°54	28°38	15°50		
F 12	23 24 22	19°24'06	9 <sup>h</sup> ≈54	3°28	17°29	10°20	26°36	21°18	8° 2	0°12	23°51	20°45	21°51	28°45	15°48		
S 13	23 28 19	20°22'21	24° 2	5° 5	18°41	10°59	26°49	21°15	8° 4	0°13	23°54	20°40	21°48	28°52	15°47		
S 14	23 32 15	21°20'38	8 <sup>h</sup> ≈33	6°45	19°53	11°38	27° 1	21°11	8° 7	0°14	23°56	20°36	21°45	28°58	15°46		
M15	23 36 12	22°18'57	23°21	8°29	21° 6	12°17	27°14	21° 8	8°10	0°14	23°58	20°33	21°42	29° 5	15°44		
T 16	23 40 8	23°17'17	8 <sup>h</sup> Y18	10°15	22°18	12°56	27°26	21° 4	8°13	0°15	24° 0	20°31	21°38	29°12	15°43		
W17	23 44 5	24°15'40	21°16	12° 3	23°30	13°35	27°39	21° 1	8°16	0°15	24° 2	20°D30	21°35	29°18	15°41		
T 18	23 48 2	25°14'04	8 <sup>h</sup> ≈7	13°53	24°43	14°14	27°51	20°57	8°19	0°16	24° 4	20°31	21°32	29°25	15°40		
F 19	23 51 58	26°12'31	22°45	15°43	25°56	14°53	28° 4	20°54	8°22	0°16	24° 6	20°32	21°29	29°32	15°38		
S 20	23 55 55	27°11'00	7 <sup>h</sup> II 5	17°35	27° 8	15°32	28°16	20°51	8°25	0°17	24° 8	20°34	21°26	29°38	15°36		
S 21	23 59 51	28° 9'31	21° 6	19°27	28°21	16°12	28°28	20°48	8°28	0°17	24°11	20°35	21°23	29°45	15°35		
M22	0 3 48	29° 8'04	4 <sup>h</sup> ≈46	21°20	29°34	16°51	28°40	20°45	8°31	0°18	24°13	20°R35	21°19	29°52	15°33		
T 23	0 7 44	0 <sup>h</sup> ≈6'39	18° 7	23°12	0 <sup>h</sup> ≈46	17°30	28°53	20°42	8°34	0°18	24°15	20°34	21°16	29°58	15°31		
W24	0 11 41	1° 5'17	1 <sup>h</sup> ≈9	25° 4	1°59	18°10	29° 5	20°39	8°37	0°18	24°17	20°32	21°13	0 <sup>h</sup> ≈5	15°29		
T 25	0 15 37	2° 3'56	13°56	26°56	3°12	18°49	29°17	20°36	8°41	0°19	24°20	20°30	21°10	0°11	15°27		
F 26	0 19 34	3° 2'38	26°28	28°48	4°25	19°29	29°29	20°33	8°44	0°19	24°22	20°27	21° 7	0°18	15°25		
S 27	0 23 31	4° 1'22	8 <sup>h</sup> ≈47	0 <sup>h</sup> ≈39	5°39	20° 8	29°41	20°31	8°47	0°19	24°24	20°24	21° 3	0°25	15°23		
S 28	0 27 27	5° 0'08	20°57	2°29	6°52	20°48	29°53	20°28	8°50	0°19	24°26	20°22	21° 0	0°31	15°21		
M29	0 31 24	5°58'56	2 <sup>h</sup> ≈57	4°19	8° 5	21°27	0 <sup>h</sup> ≈4	20°26	8°54	0°19	24°29	20°21	20°57	0°38	15°19		
T 30	0 35 20	6 <sup>h</sup> ≈57'45	14 <sup>h</sup> ≈51	6 <sup>h</sup> ≈8	9 <sup>h</sup> ≈18	22 <sup>h</sup> ≈7	0 <sup>h</sup> ≈16	20 <sup>h</sup> ≈23	8 <sup>h</sup> ≈57	0 <sup>h</sup> ≈20	24 <sup>h</sup> ≈31	20°D20	20°Y54	0 <sup>h</sup> ≈45	15 <sup>h</sup> ≈17		

Delta T = 08m17s

OCTOBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	0 39 17	7 <sup>h</sup> ≈56'37	26 <sup>h</sup> ≈40	7 <sup>o</sup> ≈55	10 <sup>h</sup> ≈32	22 <sup>o</sup> ≈47	0 <sup>h</sup> ≈28	20°R21	9 <sup>h</sup> ≈0	0 <sup>o</sup> ≈20	24 <sup>o</sup> ≈33	20°Y20	20°Y51	0 <sup>h</sup> ≈51	15°R15		
T 2	0 43 13	8°55'31	8 <sup>h</sup> ≈27	9°43	11°45	23°27	0°40	20°≈19	9° 4	0°20	24°36	20°21	20°48	0°58	15 <sup>h</sup> ≈13		
F 3	0 47 10	9°54'27	20°14	11°29	12°58	24° 6	0°51	20°17	9° 7	0°R20	24°38	20°22	20°44	1° 5	15°11		
S 4	0 51 6	10°53'24	2 <sup>h</sup> ≈5	13°14	14°12	24°46	1° 3	20°15	9°10	0°20	24°40	20°23	20°41	1°11	15° 8		
S 5	0 55 3	11°52'23	14° 3	14°59	15°26	25°26	1°14	20°13	9°14	0°20	24°43	20°23	20°38	1°18	15° 6		
M 6	0 59 0	12°51'24	26°12	16°43	16°39	26° 6	1°26	20°11	9°17	0°20	24°45	20°24	20°35	1°25	15° 4		
T 7	1 2 56	13°50'27	8 <sup>h</sup> ≈37	18°25	17°53	26°46	1°37	20° 9	9°21	0°20	24°47	20°R24	20°32	1°31	15° 1		
W 8	1 6 53	14°49'32	21°22	20° 7	19° 7	27°26	1°48	20° 7	9°24	0°19	24°50	20°24	20°28	1°38	14°59		
T 9	1 10 49	15°48'38	4 <sup>h</sup> ≈31	21°48	20°20	28° 6	1°59	20° 6	9°28	0°19	24°52	20°24	20°25	1°44	14°56		
F 10	1 14 46	16°47'46	18° 6	23°29	21°34	28°47	2°10	20° 4	9°31	0°19	24°54	20°24	20°22	1°51	14°54		
S 11	1 18 42	17°46'56	2 <sup>h</sup> ≈8	25° 8	22°48	29°27	2°21	20° 3	9°35	0°19	24°57	20°23	20°19	1°58	14°51		
S 12	1 22 39	18°46'08	16°36	26°47	24° 2	0 <sup>h</sup> ≈7	2°32	20° 2	9°38	0°19	24°59	20°23	20°16	2° 4	14°49		
M13	1 26 35	19°45'21	1 <sup>h</sup> Y27	28°25	25°16	0°47	2°43	20° 0	9°42	0°18	25° 2	20°23	20°13	2°11	14°46		
T 14	1 30 32	20°44'36	16°33	0 <sup>h</sup> ≈2	26°30	1°28	2°54	19°59	9°46	0°18	25° 4	20°23	20° 9	2°18	14°44		
W15	1 34 28	21°43'53	1 <sup>h</sup> ≈45	1°38	27°44	2° 8	3° 4	19°58	9°49	0°17	25° 6	20°23	20° 6	2°24	14°41		
T 16	1 38 25	22°43'13	16°55	3°14	28°58	2°48	3°15	19°57	9°53	0°17	25° 9	20°23	20° 3	2°31	14°38		
F 17	1 42 22	23°42'34	1 <sup>h</sup> II52	4°49	0 <sup>h</sup> ≈12	3°29	3°26	19°57	9°57	0°17	25°11	20°23	20° 0	2°38	14°35		
S 18	1 46 18	24°41'58	16°30	6°23	1°26	4° 9	3°36	19°56	10° 0	0°16	25°13	20°22	19°57	2°44	14°33		
S 19	1 50 15	25°41'24	0 <sup>h</sup> ≈44	7°57	2°41	4°50	3°46	19°55	10° 4	0°16	25°16	20°22	19°54	2°51	14°30		
M20	1 54 11	26°40'53	14°32	9°30	3°55	5°31	3°57	19°55	10° 8	0°15	25°18	20°21	19°50	2°58	14°27		
T 21	1 58 8	27°40'24	27°55	11° 2	5° 9	6°11	4° 7	19°55	10°11	0°15	25°21	20°D21	19°47	3° 4	14°24		
W22	2 2 4	28°39'57	10 <sup>h</sup> ≈53	12°34	6°24	6°52	4°17	19°54	10°15	0°14	25°23	20°21	19°44	3°11	14°22		
T 23	2 6 1	29°39'32	23°31	14° 5	7°38	7°33	4°27	19°54	10°19	0°13	25°25	20°22	19°41	3°18	14°19		
F 24	2 9 58	0 <sup>h</sup> ≈39'09	5 <sup>h</sup> ≈52	15°35	8°53	8°13	4°37	19°D54	10°22	0°13	25°28	20°23	19°38	3°24	14°16		
S 25	2 13 54	1°38'49	18° 0	17° 5	10° 7	8°54	4°46	19°54	10°26	0°12	25°30	20°24	19°34	3°31	14°13		
S 26	2 17 51	2°38'31	29°59	18°34	11°22	9°35	4°56	19°54	10°30	0°11	25°33	20°25	19°31	3°38	14°10		
M27	2 21 47	3°38'15	11 <sup>h</sup> ≈51	20° 3	12°36	10°16	5° 5	19°54	10°34	0°11	25°35	20°26	19°28	3°44	14° 7		
T 28	2 25 44	4°38'01	23°39	21°31	13°51	10°57	5°15	19°55	10°37	0°10	25°37	20°R26	19°25	3°51	14° 4		
W29	2 29 40	5°37'49	5 <sup>h</sup> ≈26	22°58	15° 6	11°38	5°24	19°55	10°41	0° 9	25°40	20°25	19°22	3°57	14° 1		
T 30	2 33 37	6°37'39	17°15	24°25	16°20	12°19	5°33	19°55	10°45	0° 8	25°42	20°24	19°19	4° 4	13°59		
F 31	2 37 33	7 <sup>h</sup> ≈37'31	29 <sup>h</sup> ≈6	25 <sup>h</sup> ≈51	17 <sup>h</sup> ≈35	13 <sup>h</sup> ≈1	5 <sup>h</sup> ≈43	19°≈56	10 <sup>h</sup> ≈49	0 <sup>h</sup> ≈7	25 <sup>h</sup> ≈44	20°Y22	19°Y15	4 <sup>h</sup> ≈11	13 <sup>h</sup> ≈56		

Delta T = 08m17s

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SWISS EPHEMERIS for the year 2228

NOVEMBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	2 41 30	8♈37'24	11♌ 2	27♈16	18♌50	13♈42	5♈51	19♌57	10♈52	0°R 6	25♌47	20°R19	19°Y12	4♈17	13°R53		
S 2	2 45 26	9°37'20	23° 6	28°40	20° 4	14°23	6° 0	19°58	10°56	05 5	25°49	20°Y16	19° 9	4°24	13°S50		
M 3	2 49 23	10°37'17	5♌20	0♌ 4	21°19	15° 4	6° 9	19°59	11° 0	0° 4	25°52	20°13	19° 6	4°31	13°47		
T 4	2 53 20	11°37'16	17°47	1°26	22°34	15°46	6°18	20° 0	11° 4	0° 3	25°54	20°10	19° 3	4°37	13°44		
W 5	2 57 16	12°37'17	0♌30	2°48	23°49	16°27	6°26	20° 1	11° 7	0° 2	25°56	20° 9	19° 0	4°44	13°41		
T 6	3 1 13	13°37'19	13°33	4° 9	25° 4	17° 9	6°35	20° 2	11°11	0° 1	25°59	20°D 8	18°56	4°51	13°38		
F 7	3 5 9	14°37'23	26°58	5°29	26°19	17°50	6°43	20° 3	11°15	0° 0	26° 1	20° 9	18°53	4°57	13°35		
S 8	3 9 6	15°37'28	10♌47	6°48	27°34	18°32	6°51	20° 5	11°19	29♈59	26° 3	20°10	18°50	5° 4	13°32		
S 9	3 13 2	16°37'34	25° 1	8° 5	28°49	19°13	6°59	20° 6	11°22	29°58	26° 5	20°11	18°47	5°11	13°29		
M10	3 16 59	17°37'43	9°Y38	9°21	0♈ 4	19°55	7° 7	20° 8	11°26	29°57	26° 8	20°12	18°44	5°17	13°26		
T 11	3 20 55	18°37'52	24°36	10°36	1°19	20°36	7°15	20°10	11°30	29°56	26°10	20°R13	18°40	5°24	13°23		
W12	3 24 52	19°38'04	9♌45	11°48	2°34	21°18	7°22	20°12	11°34	29°55	26°12	20°12	18°37	5°31	13°20		
T 13	3 28 49	20°38'17	24°58	12°59	3°49	22° 0	7°30	20°14	11°37	29°53	26°14	20° 9	18°34	5°37	13°17		
F 14	3 32 45	21°38'32	10♈ 5	14° 8	5° 4	22°42	7°37	20°16	11°41	29°52	26°17	20° 5	18°31	5°44	13°14		
S 15	3 36 42	22°38'49	24°56	15°14	6°19	23°24	7°44	20°18	11°45	29°51	26°19	20° 0	18°28	5°51	13°11		
S 16	3 40 38	23°39'08	9♌23	16°18	7°34	24° 6	7°51	20°20	11°49	29°50	26°21	19°55	18°25	5°57	13° 8		
M17	3 44 35	24°39'28	23°23	17°18	8°49	24°48	7°58	20°22	11°52	29°48	26°23	19°51	18°21	6° 4	13° 5		
T 18	3 48 31	25°39'51	6♈53	18°16	10° 4	25°30	8° 5	20°25	11°56	29°47	26°25	19°47	18°18	6°10	13° 2		
W19	3 52 28	26°40'15	19°56	19° 9	11°19	26°12	8°12	20°27	12° 0	29°46	26°28	19°46	18°15	6°17	13° 0		
T 20	3 56 25	27°40'41	2♈34	19°58	12°35	26°54	8°18	20°30	12° 3	29°44	26°30	19°D46	18°12	6°24	12°57		
F 21	4 0 21	28°41'09	14°52	20°42	13°50	27°36	8°25	20°33	12° 7	29°43	26°32	19°47	18° 9	6°30	12°54		
S 22	4 4 18	29°41'39	26°55	21°21	15° 5	28°18	8°31	20°35	12°11	29°42	26°34	19°48	18° 6	6°37	12°51		
S 23	4 8 14	0♌42'10	8♌49	21°53	16°20	29° 1	8°37	20°38	12°14	29°40	26°36	19°50	18° 2	6°44	12°48		
M24	4 12 11	1°42'44	20°36	22°19	17°36	29°43	8°43	20°41	12°18	29°39	26°38	19°R50	17°59	6°50	12°45		
T 25	4 16 7	2°43'19	21♈23	22°37	18°51	0♌25	8°48	20°44	12°22	29°37	26°40	19°50	17°56	6°57	12°43		
W26	4 20 4	3°43'55	14°11	22°46	20° 6	1° 8	8°54	20°48	12°25	29°36	26°42	19°46	17°53	7° 4	12°40		
T 27	4 24 0	4°44'34	26° 3	22°R46	21°21	1°50	8°59	20°51	12°29	29°34	26°44	19°41	17°50	7°10	12°37		
F 28	4 27 57	5°45'13	8♌ 2	22°37	22°37	2°33	9° 5	20°54	12°32	29°33	26°46	19°34	17°46	7°17	12°35		
S 29	4 31 54	6°45'54	20°10	22°17	23°52	3°15	9°10	20°58	12°36	29°31	26°48	19°25	17°43	7°24	12°32		
S 30	4 35 50	7°46'37	2♌26	21♌46	25♈ 7	3♌58	9♈15	21♌ 1	12♈39	29♈30	26♌50	19°Y15	17°Y40	7♈30	12♌29		

Delta T = 08m18s

DECEMBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	4 39 47	8♌47'20	14♌52	21°R 5	26♈23	4♌41	9♈19	21♌ 5	12♈43	29°R28	26♌52	19°R 6	17°Y37	7♈37	12°R27		
T 2	4 43 43	9°48'05	27°30	20♌13	27°38	5°23	9°24	21° 9	12°46	29♈26	26°54	18°Y58	17°34	7°44	12°S24		
W 3	4 47 40	10°48'51	10♌20	19°11	28°54	6° 6	9°28	21°12	12°50	29°25	26°56	18°52	17°31	7°50	12°22		
T 4	4 51 36	11°49'38	23°25	18° 0	0♌ 9	6°49	9°33	21°16	12°53	29°23	26°58	18°47	17°27	7°57	12°19		
F 5	4 55 33	12°50'25	6♌45	16°44	1°24	7°32	9°37	21°20	12°57	29°22	26°59	18°46	17°24	8° 4	12°17		
S 6	4 59 29	13°51'14	20°24	15°22	2°40	8°15	9°40	21°24	13° 0	29°20	27° 1	18°D46	17°21	8°10	12°14		
S 7	5 3 26	14°52'03	4°Y22	14° 0	3°55	8°58	9°44	21°28	13° 3	29°18	27° 3	18°47	17°18	8°17	12°12		
M 8	5 7 23	15°52'53	18°40	12°38	5°11	9°41	9°48	21°33	13° 7	29°17	27° 5	18°R47	17°15	8°24	12° 9		
T 9	5 11 19	16°53'44	3♌17	11°20	6°26	10°24	9°51	21°37	13°10	29°15	27° 7	18°46	17°12	8°30	12° 7		
W10	5 15 16	17°54'36	18° 7	10° 9	7°41	11° 7	9°54	21°41	13°13	29°14	27° 8	18°43	17° 8	8°37	12° 5		
T 11	5 19 12	18°55'28	3♈15	9° 6	8°57	11°50	9°57	21°46	13°16	29°12	27°10	18°37	17° 5	8°44	12° 3		
F 12	5 23 9	19°56'22	18° 3	8°13	10°12	12°33	10° 0	21°50	13°20	29°10	27°12	18°29	17° 2	8°50	12° 0		
S 13	5 27 5	20°57'17	25°51	7°31	11°28	13°17	10° 3	21°55	13°23	29° 9	27°13	18°19	16°59	8°57	11°58		
S 14	5 31 2	21°58'12	17°20	7° 0	12°43	14° 0	10° 5	22° 0	13°26	29° 7	27°15	18° 9	16°56	9° 3	11°56		
M15	5 34 58	22°59'09	1♈25	6°41	13°59	14°43	10° 7	22° 4	13°29	29° 5	27°16	17°59	16°52	9°10	11°54		
T 16	5 38 55	24° 0'07	15° 2	6°D32	15°14	15°27	10° 9	22° 9	13°32	29° 3	27°18	17°51	16°49	9°17	11°52		
W17	5 42 52	25° 1'05	28°11	6°34	16°29	16°10	10°11	22°14	13°35	29° 2	27°19	17°45	16°46	9°23	11°50		
T 18	5 46 48	26° 2'05	10♈54	6°45	17°45	16°54	10°13	22°19	13°38	29° 0	27°21	17°42	16°43	9°30	11°48		
F 19	5 50 45	27° 3'05	23°14	7° 6	19° 0	17°37	10°14	22°24	13°41	28°58	27°22	17°D40	16°40	9°37	11°46		
S 20	5 54 41	28° 4'07	5♌19	7°34	20°16	18°21	10°16	22°29	13°44	28°57	27°24	17°41	16°37	9°43	11°44		
S 21	5 58 38	29° 5'10	17°12	8°10	21°31	19° 4	10°17	22°35	13°47	28°55	27°25	17°R41	16°33	9°50	11°43		
M22	6 2 34	0♌ 6'13	28°59	8°52	22°47	19°48	10°18	22°40	13°50	28°53	27°27	17°40	16°30	9°57	11°41		
T 23	6 6 31	1° 7'17	10♈46	9°39	24° 2	20°32	10°18	22°45	13°53	28°52	27°28	17°38	16°27	10° 3	11°39		
W24	6 10 27	2° 8'23	22°36	10°32	25°18	21°16	10°19	22°50	13°56	28°50	27°29	17°33	16°24	10°10	11°37		
T 25	6 14 24	3° 9'29	4♌34	11°29	26°33	21°59	10°19	22°56	13°59	28°48	27°31	17°25	16°21	10°17	11°36		
F 26	6 18 21	4°10'35	16°43	12°30	27°49	22°43	10°R19	23° 1	14° 1	28°46	27°32	17°14	16°18	10°23	11°34		
S 27	6 22 17	5°11'42	29° 3	13°35	29° 4	23°27	10°19	23° 7	14° 4	28°45	27°33	17° 1	16°14	10°30	11°33		
S 28	6 26 14	6°12'50	11♌36	14°42	0♌20	24°11	10°19	23°13	14° 7	28°43	27°34	16°47	16°11	10°37	11°31		
M29	6 30 10	7°13'58	24°21	15°52	1°35	24°55	10°19	23°18	14° 9	28°41	27°35	16°33	16° 8	10°43	11°30		
T 30	6 34 7	8°15'06	7♌18	17° 5	2°51	25°39	10°18	23°24	14°12	28°40	27°36	16°20	16° 5	10°50	11°29		
W31	6 38 3	9♌16'15	20♌26	18♌19	4♌ 7	26♌23	10♈17	23♌30	14♈15	28♈38	27♌38	16°Y10	16°Y 2	10♈57	11♌27		

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