

SWISS EPHEMERIS for the year 2447

JANUARY 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	6 42 49	10 ²² 22'52	24 ^{II} 14	27 [♁] 44	24 [♁] 50	7 [♁] 12	10 [♁] 38	3 [♁] R37	8 [♁] R16	29 [♁] 37	26 [♁] R23	28 [♁] R40	29 [♁] 40	1 [♁] 22	14 [♁] 6
W 2	6 46 45	11 ²³ 23'58	6 [♁] 3	29 [♁] 15	25 [♁] 59	7 [♁] 53	10 [♁] 52	3 [♁] L33	8 [♁] II14	29 [♁] 38	26 [♁] 22	28 [♁] 37	29 [♁] 37	1 [♁] 29	14 [♁] 11
T 3	6 50 42	12 ²⁵ 03'03	17 [♁] 53	0 [♁] 46	27 [♁] 8	8 [♁] 34	11 [♁] 6	3 [♁] 29	8 [♁] 12	29 [♁] 39	26 [♁] 21	28 [♁] 36	29 [♁] 33	1 [♁] 35	14 [♁] 15
F 4	6 54 38	13 ²⁶ 10'10	29 [♁] 45	2 [♁] 18	28 [♁] 17	9 [♁] 15	11 [♁] 20	3 [♁] 24	8 [♁] 10	29 [♁] 39	26 [♁] 21	28 [♁] D36	29 [♁] 30	1 [♁] 42	14 [♁] 20
S 5	6 58 35	14 ²⁷ 16'16	11 [♁] L43	3 [♁] 50	29 [♁] 25	9 [♁] 56	11 [♁] 34	3 [♁] 20	8 [♁] 8	29 [♁] 40	26 [♁] 20	28 [♁] 36	29 [♁] 27	1 [♁] 49	14 [♁] 24
S 6	7 2 32	15 ²⁸ 23'23	23 [♁] 47	5 [♁] 22	0 [♁] X34	10 [♁] 38	11 [♁] 47	3 [♁] 15	8 [♁] 6	29 [♁] 41	26 [♁] 19	28 [♁] 37	29 [♁] 24	1 [♁] 55	14 [♁] 29
M 7	7 6 28	16 ²⁹ 29'30	6 [♁] II2	6 [♁] 55	1 [♁] 42	11 [♁] 19	12 [♁] 1	3 [♁] 11	8 [♁] 4	29 [♁] 42	26 [♁] 17	28 [♁] 38	29 [♁] 21	2 [♁] 2	14 [♁] 33
T 8	7 10 25	17 ³⁰ 30'37	18 [♁] 30	8 [♁] 28	2 [♁] 50	12 [♁] 0	12 [♁] 15	3 [♁] 6	8 [♁] 3	29 [♁] 43	26 [♁] 16	28 [♁] 39	29 [♁] 18	2 [♁] 9	14 [♁] 38
W 9	7 14 21	18 ³¹ 31'45	1 [♁] 14	10 [♁] 1	3 [♁] 58	12 [♁] 42	12 [♁] 29	3 [♁] 1	8 [♁] 1	29 [♁] 44	26 [♁] 15	28 [♁] 40	29 [♁] 14	2 [♁] 15	14 [♁] 42
T 10	7 18 18	19 ³² 25'53	14 [♁] 18	11 [♁] 35	5 [♁] 6	13 [♁] 23	12 [♁] 43	2 [♁] 57	7 [♁] 59	29 [♁] 44	26 [♁] 14	28 [♁] R41	29 [♁] 11	2 [♁] 22	14 [♁] 47
F 11	7 22 14	20 ³⁴ 01'01	27 [♁] 44	13 [♁] 9	6 [♁] 14	14 [♁] 5	12 [♁] 56	2 [♁] 52	7 [♁] 57	29 [♁] 45	26 [♁] 13	28 [♁] 41	29 [♁] 8	2 [♁] 29	14 [♁] 52
S 12	7 26 11	21 ³⁵ 10'10	11 [♁] 35	14 [♁] 43	7 [♁] 21	14 [♁] 46	13 [♁] 10	2 [♁] 47	7 [♁] 56	29 [♁] 46	26 [♁] 12	28 [♁] 40	29 [♁] 5	2 [♁] 35	14 [♁] 56
S 13	7 30 7	22 ³⁶ 19'25	25 [♁] 49	16 [♁] 18	8 [♁] 28	15 [♁] 28	13 [♁] 24	2 [♁] 42	7 [♁] 54	29 [♁] 46	26 [♁] 11	28 [♁] 40	29 [♁] 2	2 [♁] 42	15 [♁] 1
M 14	7 34 4	23 ³⁷ 28'10	10 [♁] X26	17 [♁] 53	9 [♁] 35	16 [♁] 9	13 [♁] 38	2 [♁] 37	7 [♁] 53	29 [♁] 47	26 [♁] 10	28 [♁] 39	28 [♁] 59	2 [♁] 49	15 [♁] 6
T 15	7 38 1	24 ³⁸ 37'25	25 [♁] 21	19 [♁] 28	10 [♁] 42	16 [♁] 51	13 [♁] 51	2 [♁] 32	7 [♁] 51	29 [♁] 47	26 [♁] 9	28 [♁] 39	28 [♁] 55	2 [♁] 55	15 [♁] 10
W 16	7 41 57	25 ³⁹ 47'10	10 [♁] 37	21 [♁] 4	11 [♁] 49	17 [♁] 32	14 [♁] 5	2 [♁] 28	7 [♁] 50	29 [♁] 48	26 [♁] 7	28 [♁] 38	28 [♁] 52	3 [♁] 2	15 [♁] 15
T 17	7 45 54	26 ⁴⁰ 56'25	25 [♁] 35	22 [♁] 40	12 [♁] 55	18 [♁] 14	14 [♁] 19	2 [♁] 23	7 [♁] 48	29 [♁] 48	26 [♁] 6	28 [♁] D38	28 [♁] 49	3 [♁] 9	15 [♁] 20
F 18	7 49 50	27 ⁴² 05'10	10 [♁] 36	24 [♁] 17	14 [♁] 1	18 [♁] 55	14 [♁] 32	2 [♁] 18	7 [♁] 47	29 [♁] 49	26 [♁] 5	28 [♁] 38	28 [♁] 46	3 [♁] 15	15 [♁] 25
S 19	7 53 47	28 ⁴³ 14'25	25 [♁] 20	25 [♁] 54	15 [♁] 7	19 [♁] 37	14 [♁] 46	2 [♁] 13	7 [♁] 46	29 [♁] 49	26 [♁] 4	28 [♁] R38	28 [♁] 43	3 [♁] 22	15 [♁] 30
S 20	7 57 43	29 ⁴⁴ 22'09	9 [♁] X43	27 [♁] 32	16 [♁] 13	20 [♁] 19	15 [♁] 0	2 [♁] 8	7 [♁] 44	29 [♁] 50	26 [♁] 2	28 [♁] 38	28 [♁] 39	3 [♁] 29	15 [♁] 34
M 21	8 1 40	0 [♁] 45'30	23 [♁] 39	29 [♁] 10	17 [♁] 18	21 [♁] 1	15 [♁] 13	2 [♁] 3	7 [♁] 43	29 [♁] 50	26 [♁] 1	28 [♁] 38	28 [♁] 36	3 [♁] 35	15 [♁] 39
T 22	8 5 36	1 ⁴⁶ 37'7	7 [♁] Y8	0 [♁] 48	18 [♁] 23	21 [♁] 42	15 [♁] 27	1 [♁] 58	7 [♁] 42	29 [♁] 50	26 [♁] 0	28 [♁] 38	28 [♁] 33	3 [♁] 42	15 [♁] 44
W 23	8 9 33	2 ⁴⁷ 43'20	2 [♁] 12	2 [♁] 27	19 [♁] 28	22 [♁] 24	15 [♁] 40	1 [♁] 53	7 [♁] 41	29 [♁] 51	25 [♁] 9	28 [♁] 37	28 [♁] 30	3 [♁] 49	15 [♁] 49
T 24	8 13 30	3 ⁴⁸ 49'28	2 [♁] 52	4 [♁] 7	20 [♁] 32	23 [♁] 6	15 [♁] 54	1 [♁] 48	7 [♁] 40	29 [♁] 51	25 [♁] 7	28 [♁] D37	28 [♁] 27	3 [♁] 55	15 [♁] 54
F 25	8 17 26	4 ⁴⁹ 54'15	15 [♁] 12	5 [♁] 47	21 [♁] 37	23 [♁] 48	16 [♁] 7	1 [♁] 43	7 [♁] 38	29 [♁] 51	25 [♁] 6	28 [♁] 37	28 [♁] 24	4 [♁] 2	15 [♁] 59
S 26	8 21 23	5 ⁵⁰ 58'27	18 [♁] 18	7 [♁] 28	22 [♁] 40	24 [♁] 30	16 [♁] 21	1 [♁] 38	7 [♁] 37	29 [♁] 51	25 [♁] 5	28 [♁] 38	28 [♁] 20	4 [♁] 9	16 [♁] 4
S 27	8 25 19	6 ⁵² 01'9	9 [♁] II13	9 [♁] 9	23 [♁] 44	25 [♁] 11	16 [♁] 34	1 [♁] 33	7 [♁] 36	29 [♁] 51	25 [♁] 3	28 [♁] 39	28 [♁] 17	4 [♁] 15	16 [♁] 9
M 28	8 29 16	7 ⁵³ 03'21	3 [♁] 13	10 [♁] 50	24 [♁] 47	25 [♁] 37	16 [♁] 48	1 [♁] 28	7 [♁] 36	29 [♁] 52	25 [♁] 2	28 [♁] 40	28 [♁] 14	4 [♁] 22	16 [♁] 14
T 29	8 33 12	8 ⁵⁴ 05'28	5 [♁] 51	12 [♁] 33	25 [♁] 50	26 [♁] 35	17 [♁] 1	1 [♁] 23	7 [♁] 35	29 [♁] 52	25 [♁] 1	28 [♁] 41	28 [♁] 11	4 [♁] 29	16 [♁] 19
W 30	8 37 9	9 ⁵⁵ 06'14	4 [♁] 40	14 [♁] 15	26 [♁] 52	27 [♁] 17	17 [♁] 14	1 [♁] 18	7 [♁] 34	29 [♁] 52	25 [♁] 4	28 [♁] 42	28 [♁] 8	4 [♁] 35	16 [♁] 24
T 31	8 41 5	10 ⁵⁶ 06'26	6 [♁] 34	15 [♁] 59	27 [♁] X54	27 [♁] X59	17 [♁] 38	1 [♁] L14	7 [♁] II33	29 [♁] R52	25 [♁] L48	28 [♁] R42	28 [♁] 5	4 [♁] 42	16 [♁] 29

Delta T = 19m58s

FEBRUARY 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	8 45 2	11 ⁵⁷ 07'05	8 [♁] L34	17 [♁] 42	28 [♁] X56	28 [♁] X41	17 [♁] 341	1 [♁] R9	7 [♁] R32	29 [♁] R52	25 [♁] R46	28 [♁] R42	28 [♁] 1	4 [♁] 49	16 [♁] 33
S 2	8 48 59	12 ⁵⁸ 04'20	20 [♁] 43	19 [♁] 26	29 [♁] 57	29 [♁] 23	17 [♁] 54	1 [♁] L4	7 [♁] II32	29 [♁] 52	25 [♁] L45	28 [♁] 41	27 [♁] 58	4 [♁] 55	16 [♁] 38
S 3	8 52 55	13 ⁵⁹ 01'13	3 [♁] II2	21 [♁] 11	0 [♁] Y58	0 [♁] 3	18 [♁] 7	0 [♁] 59	7 [♁] 31	29 [♁] 51	25 [♁] 44	28 [♁] 39	27 [♁] 55	5 [♁] 2	16 [♁] 43
M 4	8 56 52	14 ⁵⁹ 58'15	15 [♁] 33	22 [♁] 55	1 [♁] 59	0 [♁] 48	18 [♁] 20	0 [♁] 54	7 [♁] 31	29 [♁] 51	25 [♁] 42	28 [♁] 37	27 [♁] 52	5 [♁] 9	16 [♁] 48
T 5	9 0 48	16 ⁰ 54'28	18 [♁] 16	24 [♁] 40	2 [♁] 58	1 [♁] 30	18 [♁] 33	0 [♁] 50	7 [♁] 30	29 [♁] 51	25 [♁] 41	28 [♁] 34	27 [♁] 49	5 [♁] 15	16 [♁] 53
W 6	9 4 45	17 ¹ 49'11	11 [♁] 13	26 [♁] 25	3 [♁] 58	2 [♁] 12	18 [♁] 46	0 [♁] 45	7 [♁] 30	29 [♁] 51	25 [♁] 39	28 [♁] 31	27 [♁] 45	5 [♁] 22	16 [♁] 58
T 7	9 8 41	18 ² 44'18	24 [♁] 24	28 [♁] 11	4 [♁] 57	2 [♁] 54	18 [♁] 59	0 [♁] 40	7 [♁] 29	29 [♁] 51	25 [♁] 38	28 [♁] 29	27 [♁] 42	5 [♁] 29	17 [♁] 3
F 8	9 12 38	19 ³ 38'7	7 [♁] II52	29 [♁] 56	5 [♁] 56	3 [♁] 36	19 [♁] 12	0 [♁] 36	7 [♁] 29	29 [♁] 50	25 [♁] 36	28 [♁] 28	27 [♁] 39	5 [♁] 35	17 [♁] 8
S 9	9 16 34	20 ⁴ 31'21	21 [♁] 35	1 [♁] X40	6 [♁] 54	4 [♁] 19	19 [♁] 25	0 [♁] 31	7 [♁] 29	29 [♁] 50	25 [♁] 35	28 [♁] D27	27 [♁] 36	5 [♁] 42	17 [♁] 13
S 10	9 20 31	21 ⁵ 24'21	5 [♁] X36	3 [♁] 25	7 [♁] 51	5 [♁] 1	19 [♁] 38	0 [♁] 27	7 [♁] 28	29 [♁] 50	25 [♁] 34	28 [♁] 28	27 [♁] 33	5 [♁] 48	17 [♁] 18
M 11	9 24 28	22 ⁶ 16'19	19 [♁] 53	5 [♁] 8	8 [♁] 48	5 [♁] 43	19 [♁] 51	0 [♁] 22	7 [♁] 28	29 [♁] 50	25 [♁] 32	28 [♁] 29	27 [♁] 30	5 [♁] 55	17 [♁] 23
T 12	9 28 24	23 ⁷ 07'43	4 [♁] 323	6 [♁] 50	9 [♁] 45	6 [♁] 26	20 [♁] 4	0 [♁] 18	7 [♁] 28	29 [♁] 49	25 [♁] 31	28 [♁] 31	27 [♁] 26	6 [♁] 2	17 [♁] 28
W 13	9 32 21	24 ⁷ 57'19	19 [♁] 5	8 [♁] 32	10 [♁] 40	7 [♁] 8	20 [♁] 16	0 [♁] 14	7 [♁] 28	29 [♁] 49	25 [♁] 29	28 [♁] 32	27 [♁] 23	6 [♁] 8	17 [♁] 33
T 14	9 36 17	25 ⁸ 46'33	3 [♁] 51	10 [♁] 11	11 [♁] 36	7 [♁] 51	20 [♁] 29	0 [♁] 9	7 [♁] D28	29 [♁] 48	25 [♁] 28	28 [♁] R32	27 [♁] 20	6 [♁] 15	17 [♁] 38
F 15	9 40 14	26 ⁹ 34'18	18 [♁] 35	11 [♁] 48	12 [♁] 30	8 [♁] 33									

SWISS EPHEMERIS for the year 2447

MARCH 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	
F 1	10 35 26	10♋18°08	17♌ 2	25°R 6	23♍54	18♎30	23♏30	29°R14	7♐34	29°R38	25°R 6	28°R 6	26♑32	7♒55	18♓50
S 2	10 39 22	11°18'32	29°23	24♋59	24°35	19°13	23°41	29♌11	7°35	29♎37	25♏ 5	28♑ 2	26°29	8° 2	18°55
S 3	10 43 19	12°18'54	12♍ 0	24°42	25°16	19°56	23°53	29° 8	7°35	29°36	25° 4	27°56	26°26	8° 8	19° 0
M 4	10 47 15	13°19'15	24°51	24°16	25°55	20°39	24° 4	29° 5	7°36	29°35	25° 2	27°49	26°23	8°15	19° 4
T 5	10 51 12	14°19'34	7♎57	23°41	26°33	21°21	24°15	29° 3	7°37	29°34	25° 1	27°41	26°20	8°22	19° 9
W 6	10 55 8	15°19'51	21°16	22°59	27°10	22° 4	24°27	29° 0	7°38	29°33	25° 0	27°32	26°16	8°28	19°14
T 7	10 59 5	16°20'07	4♏47	22° 9	27°45	22°47	24°38	28°57	7°39	29°32	24°58	27°25	26°13	8°35	19°18
F 8	11 3 1	17°20'22	18°28	21°14	28°19	23°30	24°49	28°55	7°40	29°30	24°57	27°19	26°10	8°41	19°23
S 9	11 6 58	18°20'35	2♐19	20°15	28°52	24°13	24°59	28°52	7°42	29°29	24°56	27°16	26° 7	8°48	19°27
S 10	11 10 54	19°20'46	16°17	19°14	29°23	24°56	25°10	28°50	7°43	29°28	24°54	27°D15	26° 4	8°55	19°32
M11	11 14 51	20°20'57	0♑23	18°11	29°52	25°40	25°21	28°48	7°44	29°27	24°53	27°15	26° 1	9° 1	19°36
T 12	11 18 48	21°21'05	14°35	17° 9	0♒20	26°23	25°31	28°46	7°45	29°26	24°52	27°16	25°57	9° 8	19°40
W13	11 22 44	22°21'13	28°51	16° 9	0°46	27° 6	25°42	28°44	7°47	29°25	24°50	27°R16	25°54	9°15	19°45
T 14	11 26 41	23°21'18	13♌10	15°12	1°10	27°49	25°52	28°42	7°48	29°23	24°49	27°15	25°51	9°21	19°49
F 15	11 30 37	24°21'22	27°28	14°19	1°33	28°32	26° 3	28°40	7°50	29°22	24°48	27°12	25°48	9°28	19°53
S 16	11 34 34	25°21'24	11♋40	13°30	1°54	29°15	26°13	28°39	7°51	29°21	24°47	27° 6	25°45	9°35	19°58
S 17	11 38 30	26°21'25	25°42	12°48	2°13	29°58	26°23	28°37	7°53	29°20	24°46	26°57	25°42	9°41	20° 2
M18	11 42 27	27°21'23	9♍29	12°11	2°30	0♎42	26°33	28°36	7°54	29°18	24°44	26°47	25°38	9°48	20° 6
T 19	11 46 23	28°21'20	22°56	11°41	2°44	1°25	26°43	28°35	7°56	29°17	24°43	26°36	25°35	9°55	20°10
W20	11 50 20	29°21'14	6♎ 3	11°18	2°57	2° 8	26°52	28°33	7°58	29°16	24°42	26°26	25°32	10° 1	20°14
T 21	11 54 17	0♍21'06	18°48	11° 1	3° 7	2°51	27° 2	28°32	7°59	29°14	24°41	26°17	25°29	10° 8	20°19
F 22	11 58 13	1°20'57	1♎14	10°50	3°16	3°35	27°11	28°31	8° 1	29°13	24°40	26°10	25°26	10°15	20°23
S 23	12 2 10	2°20'45	13°23	10°D46	3°22	4°18	27°21	28°30	8° 3	29°11	24°39	26° 6	25°22	10°21	20°27
S 24	12 6 6	3°20'31	25°20	10°48	3°25	5° 1	27°30	28°30	8° 5	29°10	24°38	26° 4	25°19	10°28	20°31
M25	12 10 3	4°20'15	7♏ 9	10°55	3°R26	5°45	27°39	28°29	8° 7	29° 8	24°36	26°D 4	25°16	10°35	20°34
T 26	12 13 59	5°19'56	18°57	11° 8	3°25	6°28	27°48	28°28	8° 9	29° 7	24°35	26° 4	25°13	10°41	20°38
W27	12 17 56	6°19'35	0♏49	11°27	3°21	7°12	27°57	28°28	8°11	29° 6	24°34	26°R 5	25°10	10°48	20°42
T 28	12 21 52	7°19'12	12°50	11°51	3°15	7°55	28° 6	28°28	8°13	29° 4	24°33	26° 3	25° 7	10°54	20°46
F 29	12 25 49	8°18'47	25° 4	12°19	3° 6	8°38	28°14	28°28	8°15	29° 3	24°32	26° 0	25° 3	11° 1	20°50
S 30	12 29 46	9°18'20	7♐36	12°52	2°55	9°22	28°23	28°D27	8°17	29° 1	24°31	25°54	25° 0	11° 8	20°53
S 31	12 33 42	10♍17'50	20♍26	13♋29	2♎41	10♌ 5	28♏31	28♑27	8♐19	28♒59	24♓31	25♑45	24♒57	11♒14	20♓57

Delta T = 19m59s

APRIL 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	
M 1	12 37 39	11♍17'18	3♎37	14♋10	2°R25	10♌49	28♏40	28♑28	8♐22	28°R58	24°R30	25°R34	24♒54	11♒21	21♓ 1
T 2	12 41 35	12°16'45	17° 6	14°55	2♎ 7	11°32	28°48	28°28	8°24	28♒56	24♓29	25♑22	24°51	11°28	21° 4
W 3	12 45 32	13°16'09	0♎52	15°43	1°46	12°16	28°56	28°28	8°26	28°55	24°28	25° 9	24°48	11°34	21° 8
T 4	12 49 28	14°15'31	14°49	16°34	1°22	12°59	29° 4	28°29	8°28	28°53	24°27	24°59	24°44	11°41	21°11
F 5	12 53 25	15°14'52	28°54	17°29	0°57	13°43	29°11	28°29	8°31	28°52	24°26	24°50	24°41	11°48	21°15
S 6	12 57 21	16°14'10	13♎ 4	18°27	0°29	14°26	29°19	28°30	8°33	28°50	24°25	24°44	24°38	11°54	21°18
S 7	13 1 18	17°13'27	27°14	19°27	0° 0	15°10	29°26	28°31	8°36	28°48	24°25	24°41	24°35	12° 1	21°21
M 8	13 5 14	18°12'43	11♏22	20°30	29♍29	15°54	29°34	28°32	8°38	28°47	24°24	24°40	24°32	12° 8	21°25
T 9	13 9 11	19°11'56	25°28	21°36	28°56	16°37	29°41	28°33	8°41	28°45	24°23	24°40	24°28	12°14	21°28
W10	13 13 8	20°11'08	9♎30	22°44	28°22	17°21	29°48	28°34	8°43	28°44	24°22	24°39	24°25	12°21	21°31
T 11	13 17 4	21°10'18	23°28	23°54	27°47	18° 4	29°55	28°35	8°46	28°42	24°22	24°37	24°22	12°28	21°34
F 12	13 21 1	22° 9'27	7♋21	25° 6	27°10	18°48	0♎ 2	28°36	8°48	28°40	24°21	24°33	24°19	12°34	21°37
S 13	13 24 57	23° 8'33	21° 7	26°21	26°33	19°32	0° 8	28°38	8°51	28°39	24°20	24°25	24°16	12°41	21°40
S 14	13 28 54	24° 7'38	4♍43	27°38	25°56	20°15	0°14	28°39	8°54	28°37	24°20	24°15	24°13	12°47	21°43
M15	13 32 50	25° 6'40	18° 7	28°56	25°18	20°59	0°21	28°41	8°57	28°35	24°19	24° 2	24° 9	12°54	21°46
T 16	13 36 47	26° 5'41	1♎17	0♍17	24°41	21°43	0°27	28°43	8°59	28°34	24°19	23°49	24° 6	13° 1	21°49
W17	13 40 43	27° 4'40	14°10	1°39	24° 3	22°26	0°33	28°45	9° 2	28°32	24°18	23°36	24° 3	13° 7	21°51
T 18	13 44 40	28° 3'36	26°47	3° 3	23°26	23°10	0°39	28°47	9° 5	28°31	24°18	23°25	24° 0	13°14	21°54
F 19	13 48 37	29° 2'31	9♐ 8	4°29	22°50	23°54	0°44	28°49	9° 8	28°29	24°17	23°16	23°57	13°21	21°57
S 20	13 52 33	0♎ 1'23	21°14	5°57	22°15	24°37	0°50	28°51	9°11	28°27	24°17	23°10	23°53	13°27	21°59
S 21	13 56 30	1° 0'14	3♏10	7°26	21°41	25°21	0°55	28°53	9°14	28°26	24°16	23° 6	23°50	13°34	22° 2
M22	14 0 26	1°59'02	14°59	8°57	21° 8	26° 5	1° 0	28°56	9°16	28°24	24°16	23° 5	23°47	13°41	22° 4
T 23	14 4 23	2°57'48	26°47	10°30	20°37	26°48	1° 5	28°58	9°19	28°22	24°15	23° 5	23°44	13°47	22° 7
W24	14 8 19	3°56'31	8♏39	12° 4	20° 8	27°32	1°10	29° 1	9°22	28°21	24°15	23° 5	23°41	13°54	22° 9
T 25	14 12 16	4°55'13	20°40	13°41	19°40	28°16	1°15	29° 3	9°25	28°19	24°15	23° 4	23°38	14° 1	22°11
F 26	14 16 12	5°53'52	2♍56	15°18	19°15	29° 0	1°19	29° 6	9°28	28°17	24°14	23° 1	23°34	14° 7	22°14
S 27	14 20 9	6°52'29	15°31	16°58	18°51	29°43	1°23	29° 9	9°32	28°16	24°14	22°56	23°31	14°14	22°16
S 28	14 24 6	7°51'04	28°29	18°39	18°30	0♎27	1°27	29°12	9°35	28°14	24°14	22°48	23°28	14°21	22°18
M29	14 28 2	8°49'36	11♎52	20°21	18°12	1°11	1°31	29°15	9°38	28°13	24°14	22°38	23°25	14°27	22°20
T 30	14 31 59	9♎48'07	25♎37	22♍ 6	17♍55	1♎54	1♏35	29♑18	9♐41	28♒11	24♓13	22♑27	23♒22	14♒34	22♓22

Delta T = 19m59s

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SWISS EPHEMERIS for the year 2447

MAY 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	14 35 55	10♁46'36	9♏44	23♃52	17♁R41	2♃38	1♁39	29♁22	9♏44	28♁R 9	24♁R13	22♁R16	23♁19	14♁40	22♁24								
T 2	14 39 52	11°45'03	24° 6	25°40	17♃30	3°22	1°42	29°25	9°47	28♁ 8	24♁13	22♁ 6	23°15	14°47	22°25								
F 3	14 43 48	12°43'28	8♁38	27°29	17°21	4° 5	1°45	29°29	9°50	28° 6	24°13	21°58	23°12	14°54	22°27								
S 4	14 47 45	13°41'52	23°13	29°20	17°14	4°49	1°48	29°32	9°54	28° 5	24°13	21°52	23° 9	15° 0	22°29								
S 5	14 51 41	14°40'14	7♁44	1♁13	17°10	5°33	1°51	29°36	9°57	28° 3	24°13	21°50	23° 6	15° 7	22°31								
M 6	14 55 38	15°38'34	22° 8	3° 7	17°D 8	6°17	1°54	29°40	10° 0	28° 1	24°D13	21°D49	23° 3	15°14	22°32								
T 7	14 59 35	16°36'53	6♁21	5° 4	17° 9	7° 0	1°57	29°43	10° 3	28° 0	24°13	21°49	22°59	15°20	22°34								
W 8	15 3 31	17°35'11	20°22	7° 2	17°12	7°44	1°59	29°47	10° 7	27°58	24°13	21°R49	22°56	15°27	22°35								
T 9	15 7 28	18°33'27	4♃11	9° 1	17°17	8°28	2° 1	29°51	10°10	27°57	24°13	21°48	22°53	15°34	22°36								
F 10	15 11 24	19°31'41	17°48	11° 2	17°24	9°11	2° 3	29°56	10°13	27°55	24°13	21°45	22°50	15°40	22°38								
S 11	15 15 21	20°29'54	1♃13	13° 5	17°34	9°55	2° 5	0♁ 0	10°17	27°54	24°13	21°40	22°47	15°47	22°39								
S 12	15 19 17	21°28'06	14°26	15° 9	17°46	10°39	2° 6	0° 4	10°20	27°52	24°13	21°32	22°44	15°54	22°40								
M13	15 23 14	22°26'16	27°27	17°15	18° 0	11°22	2° 8	0° 8	10°23	27°51	24°14	21°22	22°40	16° 0	22°41								
T 14	15 27 10	23°24'24	10♁16	19°22	18°16	12° 6	2° 9	0°13	10°27	27°49	24°14	21°12	22°37	16° 7	22°42								
W15	15 31 7	24°22'31	22°51	21°30	18°34	12°49	2°10	0°17	10°30	27°48	24°14	21° 1	22°34	16°13	22°43								
T 16	15 35 4	25°20'36	5♏14	23°39	18°53	13°33	2°11	0°22	10°34	27°47	24°14	20°52	22°31	16°20	22°44								
F 17	15 39 0	26°18'40	17°24	25°49	19°15	14°16	2°12	0°27	10°37	27°45	24°15	20°45	22°28	16°27	22°45								
S 18	15 42 57	27°16'42	29°25	27°59	19°38	15° 0	2°12	0°32	10°40	27°44	24°15	20°41	22°25	16°33	22°46								
S 19	15 46 53	28°14'43	11♁17	0♏10	20° 3	15°43	2°12	0°36	10°44	27°42	24°15	20°38	22°21	16°40	22°46								
M20	15 50 50	29°12'41	23° 5	2°21	20°30	16°27	2°R12	0°41	10°47	27°41	24°16	20°D38	22°18	16°47	22°47								
T 21	15 54 46	0♏10'38	4♁52	4°32	20°58	17°10	2°12	0°46	10°51	27°40	24°16	20°39	22°15	16°53	22°47								
W22	15 58 43	1° 8'33	16°43	6°42	21°27	17°54	2°12	0°51	10°54	27°38	24°16	20°40	22°12	17° 0	22°48								
T 23	16 2 39	2° 6'26	28°43	8°51	21°58	18°37	2°12	0°57	10°58	27°37	24°17	20°R41	22° 9	17° 7	22°48								
F 24	16 6 36	3° 4'18	10♏58	11° 0	22°31	19°21	2°11	1° 2	11° 1	27°36	24°17	20°40	22° 5	17°13	22°49								
S 25	16 10 33	4° 2'08	23°33	13° 7	23° 4	20° 4	2°10	1° 7	11° 5	27°35	24°18	20°38	22° 2	17°20	22°49								
S 26	16 14 29	4°59'56	6♁31	15°12	23°40	20°47	2° 9	1°13	11° 8	27°33	24°18	20°35	21°59	17°27	22°49								
M27	16 18 26	5°57'42	19°55	17°16	24°16	21°30	2° 8	1°18	11°12	27°32	24°19	20°29	21°56	17°33	22°49								
T 28	16 22 22	6°55'27	3♏47	19°18	24°53	22°14	2° 6	1°24	11°15	27°31	24°20	20°23	21°53	17°40	22°R49								
W29	16 26 19	7°53'11	18° 3	21°17	25°32	22°57	2° 5	1°29	11°19	27°30	24°20	20°16	21°50	17°47	22°49								
T 30	16 30 15	8°50'53	2♁41	23°15	26°12	23°40	2° 3	1°35	11°22	27°29	24°21	20°10	21°46	17°53	22°49								
F 31	16 34 12	9♏48'34	17♁32	25♏ 9	26♃52	24♃23	2♁ 1	1♁41	11♏26	27♁28	24♁21	20♁ 5	21♁43	18♁ 0	22♁49								

Delta T = 19m59s

JUNE 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	16 38 8	10♏46'14	2♁29	27♏ 1	27♃34	25♃ 6	1°R59	1♁46	11♏29	27°R26	24♁22	20°R 2	21♁40	18♁ 6	22°R49								
S 2	16 42 5	11°43'52	17°23	28°51	28°17	25°49	1♁56	1°52	11°33	27♁25	24°23	20°D 1	21°37	18°13	22♁48								
M 3	16 46 2	12°41'30	2♁ 8	0♁37	29° 1	26°32	1°54	1°58	11°36	27°24	24°24	20°E 2	21°34	18°20	22°48								
T 4	16 49 58	13°39'06	16°37	2°21	29°46	27°15	1°51	2° 4	11°40	27°23	24°24	20° 3	21°31	18°26	22°48								
W 5	16 53 55	14°36'42	0♃48	4° 2	0♁31	27°58	1°48	2°10	11°43	27°22	24°25	20° 4	21°27	18°33	22°47								
T 6	16 57 51	15°34'16	14°40	5°40	1°18	28°41	1°45	2°16	11°47	27°21	24°26	20°R 5	21°24	18°40	22°46								
F 7	17 1 48	16°31'50	28°13	7°15	2° 5	29°24	1°42	2°22	11°50	27°20	24°27	20° 4	21°21	18°46	22°46								
S 8	17 5 44	17°29'23	11♃27	8°46	2°53	0♃ 7	1°38	2°29	11°54	27°19	24°28	20° 2	21°18	18°53	22°45								
S 9	17 9 41	18°26'56	24°25	10°15	3°42	0°50	1°35	2°35	11°57	27°18	24°29	19°59	21°15	19° 0	22°44								
M10	17 13 37	19°24'27	7♁ 9	11°41	4°31	1°32	1°31	2°41	12° 1	27°18	24°30	19°54	21°11	19° 6	22°44								
T 11	17 17 34	20°21'58	19°39	13° 4	5°21	2°15	1°27	2°48	12° 4	27°17	24°31	19°50	21° 8	19°13	22°43								
W12	17 21 31	21°19'28	1♏57	14°23	6°12	2°57	1°23	2°54	12° 8	27°16	24°32	19°45	21° 5	19°20	22°42								
T 13	17 25 27	22°16'57	14° 6	15°40	7° 3	3°40	1°19	3° 1	12°11	27°15	24°32	19°41	21° 2	19°26	22°41								
F 14	17 29 24	23°14'25	26° 5	16°53	7°56	4°22	1°14	3° 7	12°15	27°14	24°34	19°37	20°59	19°33	22°40								
S 15	17 33 20	24°11'52	7♁58	18° 3	8°48	5° 5	1°10	3°14	12°18	27°14	24°35	19°36	20°56	19°39	22°38								
S 16	17 37 17	25° 9'19	19°47	19° 9	9°41	5°47	1° 5	3°20	12°22	27°13	24°36	19°D35	20°52	19°46	22°37								
M17	17 41 13	26° 6'44	1♁33	20°12	10°35	6°29	1° 0	3°27	12°25	27°12	24°37	19°36	20°49	19°53	22°36								
T 18	17 45 10	27° 4'09	13°21	21°12	11°29	7°12	0°55	3°34	12°28	27°12	24°38	19°37	20°46	19°59	22°34								
W19	17 49 6	28° 1'32	25°14	22° 8	12°24	7°54	0°50	3°41	12°32	27°11	24°39	19°38	20°43	20° 6	22°33								
T 20	17 53 3	28°58'55	7♏15	23° 0	13°19	8°36	0°44	3°48	12°35	27°10	24°40	19°40	20°40	20°13	22°32								
F 21	17 57 0	29°56'17	19°30	23°49	14°15	9°18	0°39	3°54	12°39	27°10	24°41	19°41	20°37	20°19	22°30								
S 22	18 0 56	0♁53'37	2♁ 2	24°33	15°11	10° 0	0°33	4° 1	12°42	27° 9	24°42	19°R41	20°33	20°26	22°28								
S 23	18 4 53	1°50'57	14°57	25°14	16° 8	10°41	0°27	4° 8	12°45	27° 9	24°44	19°41	20°30	20°33	22°27								
M24	18 8 49	2°48'16	28°16	25°51	17° 5	11°23	0°21	4°15	12°49	27° 8	24°45	19°40	20°27	20°39	22°25								
T 25	18 12 46	3°45'33	12♏ 3	26°24	18° 3	12° 5	0°15	4°22	12°52	27° 8	24°46	19°38	20°24	20°46	22°23								
W26	18 16 42	4°42'51	26°18	26°52	19° 1	12°46	0° 9	4°29	12°55	27° 7	24°47	19°36	20°21	20°53	22°21								
T 27	18 20 39	5°40'07	10♁57	27°16	19°59	13°28	0° 3	4°37	12°59	27° 7	24°49	19°34	20°17	20°59	22°19								
F 28	18 24 36	6°37'23	25°53	27°36	20°57	14° 9	29♁57	4°44	13° 2	27° 7	24°50	19°33	20°14	21° 6	22°18								
S 29	18 28 32	7°34'39	11♁ 1	27°51	21°56	14°50	29°50	4°51	13° 5	27° 6	24°51	19°32	20°11	21°13	22°15								
S 30	18 32 29	8♁31'54	26♁11	28♁ 1	22♁56	15♃32	29♁44	4♁58	13♏ 9	27♁ 6	24♁53	19°D32	20♁ 8	21♁19	22♁13								

Delta T = 20m00s

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SWISS EPHEMERIS for the year 2447

JULY 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	
M 1	18 36 25	9 ^h 29'08"	11 ^h 13'	28 ^h 07'	23 ^h 56'	16 ^h 13'	29 ^h 37'	5 ^h 05'	13 ^h 12'	27 ^h 06'	24 ^h 54'	19 ^h 33'	20 ^h 05'	21 ^h 26'	22 ^h 01'
T 2	18 40 22	10 ^h 26'23"	26 ^h 00'	28 ^h R 9	24 ^h 56'	16 ^h 54'	29 ^h 30'	5 ^h 13'	13 ^h 15'	27 ^h 06'	24 ^h 56'	19 ^h 33'	20 ^h 20'	21 ^h 32'	22 ^h 09'
W 3	18 44 18	11 ^h 23'37"	10 ^h X27	28 ^h 06'	25 ^h 56'	17 ^h 35'	29 ^h 23'	5 ^h 20'	13 ^h 18'	27 ^h 06'	24 ^h 57'	19 ^h 34'	19 ^h 58'	21 ^h 39'	22 ^h 07'
T 4	18 48 15	12 ^h 20'51"	24 ^h 29'	27 ^h 58'	26 ^h 57'	18 ^h 15'	29 ^h 16'	5 ^h 27'	13 ^h 21'	27 ^h 05'	24 ^h 58'	19 ^h 35'	19 ^h 55'	21 ^h 46'	22 ^h 05'
F 5	18 52 11	13 ^h 18'06"	8 ^h Y 6	27 ^h 46'	27 ^h 58'	18 ^h 56'	29 ^h 09'	5 ^h 35'	13 ^h 25'	27 ^h 05'	25 ^h 00'	19 ^h R35	19 ^h 52'	21 ^h 52'	22 ^h 02'
S 6	18 56 08	14 ^h 15'20"	21 ^h 19'	27 ^h 30'	28 ^h 59'	19 ^h 37'	29 ^h 02'	5 ^h 42'	13 ^h 28'	27 ^h 05'	25 ^h 01'	19 ^h 35'	19 ^h 49'	21 ^h 59'	22 ^h 00'
S 7	19 00 5	15 ^h 12'34"	4 ^h 11'	27 ^h 09'	0 ^h II 1	20 ^h 17'	28 ^h 55'	5 ^h 50'	13 ^h 31'	27 ^h 05'	25 ^h 03'	19 ^h 35'	19 ^h 46'	22 ^h 06'	21 ^h 58'
M 8	19 04 1	16 ^h 09'49"	16 ^h 45'	26 ^h 45'	1 ^h 03'	20 ^h 57'	28 ^h 47'	5 ^h 57'	13 ^h 34'	27 ^h 05'	25 ^h 04'	19 ^h 34'	19 ^h 43'	22 ^h 12'	21 ^h 55'
T 9	19 07 58	17 ^h 07'03"	29 ^h 03'	26 ^h 18'	2 ^h 05'	21 ^h 38'	28 ^h 40'	6 ^h 05'	13 ^h 37'	27 ^h D 5	25 ^h 06'	19 ^h 34'	19 ^h 39'	22 ^h 19'	21 ^h 53'
W10	19 11 54	18 ^h 04'18"	11 ^h II10	25 ^h 48'	3 ^h 07'	22 ^h 18'	28 ^h 32'	6 ^h 12'	13 ^h 40'	27 ^h 05'	25 ^h 07'	19 ^h 34'	19 ^h 36'	22 ^h 26'	21 ^h 50'
T 11	19 15 51	19 ^h 01'33"	23 ^h 08'	25 ^h 15'	4 ^h 10'	22 ^h 58'	28 ^h 25'	6 ^h 20'	13 ^h 43'	27 ^h 05'	25 ^h 09'	19 ^h 34'	19 ^h 33'	22 ^h 32'	21 ^h 47'
F 12	19 19 47	19 ^h 58'48"	4 ^h 59'	24 ^h 40'	5 ^h 13'	23 ^h 38'	28 ^h 19'	6 ^h 27'	13 ^h 46'	27 ^h 05'	25 ^h 10'	19 ^h D34	19 ^h 30'	22 ^h 39'	21 ^h 45'
S 13	19 23 44	20 ^h 56'02"	16 ^h 47'	24 ^h 03'	6 ^h 16'	24 ^h 17'	28 ^h 10'	6 ^h 35'	13 ^h 49'	27 ^h 05'	25 ^h 12'	19 ^h R34	19 ^h 27'	22 ^h 46'	21 ^h 42'
S 14	19 27 40	21 ^h 53'17"	28 ^h 34'	23 ^h 26'	7 ^h 19'	24 ^h 57'	28 ^h 02'	6 ^h 42'	13 ^h 52'	27 ^h 06'	25 ^h 14'	19 ^h 34'	19 ^h 23'	22 ^h 52'	21 ^h 39'
M15	19 31 37	22 ^h 50'32"	10 ^h Ω22	22 ^h 48'	8 ^h 23'	25 ^h 36'	27 ^h 55'	6 ^h 50'	13 ^h 55'	27 ^h 06'	25 ^h 15'	19 ^h 34'	19 ^h 20'	22 ^h 59'	21 ^h 37'
T 16	19 35 34	23 ^h 47'47"	22 ^h 14'	22 ^h 11'	9 ^h 27'	26 ^h 16'	27 ^h 47'	6 ^h 58'	13 ^h 58'	27 ^h 06'	25 ^h 17'	19 ^h 33'	19 ^h 17'	23 ^h 05'	21 ^h 34'
W17	19 39 30	24 ^h 45'02"	4 ^h II11	21 ^h 35'	10 ^h 31'	26 ^h 55'	27 ^h 39'	7 ^h 05'	14 ^h 01'	27 ^h 06'	25 ^h 18'	19 ^h 33'	19 ^h 14'	23 ^h 12'	21 ^h 31'
T 18	19 43 27	25 ^h 42'17"	16 ^h 18'	21 ^h 01'	11 ^h 35'	27 ^h 34'	27 ^h 31'	7 ^h 13'	14 ^h 04'	27 ^h 06'	25 ^h 20'	19 ^h 32'	19 ^h 11'	23 ^h 19'	21 ^h 28'
F 19	19 47 23	26 ^h 39'32"	28 ^h 36'	20 ^h 29'	12 ^h 39'	28 ^h 12'	27 ^h 24'	7 ^h 21'	14 ^h 06'	27 ^h 07'	25 ^h 22'	19 ^h 31'	19 ^h 08'	23 ^h 25'	21 ^h 25'
S 20	19 51 20	27 ^h 36'46"	11 ^h Ω10	19 ^h 59'	13 ^h 44'	28 ^h 51'	27 ^h 16'	7 ^h 28'	14 ^h 09'	27 ^h 07'	25 ^h 23'	19 ^h 30'	19 ^h 04'	23 ^h 32'	21 ^h 22'
S 21	19 55 16	28 ^h 34'01"	24 ^h 03'	19 ^h 33'	14 ^h 49'	29 ^h 30'	27 ^h 08'	7 ^h 36'	14 ^h 12'	27 ^h 08'	25 ^h 25'	19 ^h D30	19 ^h 01'	23 ^h 39'	21 ^h 19'
M22	19 59 13	29 ^h 31'15"	7 ^h II17	19 ^h 11'	15 ^h 54'	0 ^h 8 8	27 ^h 00'	7 ^h 44'	14 ^h 15'	27 ^h 08'	25 ^h 27'	19 ^h 30'	18 ^h 58'	23 ^h 45'	21 ^h 16'
T 23	20 03 09	0 ^h Ω28'30"	20 ^h 56'	18 ^h 54'	16 ^h 59'	0 ^h 46'	26 ^h 53'	7 ^h 51'	14 ^h 17'	27 ^h 08'	25 ^h 29'	19 ^h 31'	18 ^h 55'	23 ^h 52'	21 ^h 13'
W24	20 07 06	1 ^h 25'45"	4 ^h X59	18 ^h 41'	18 ^h 05'	1 ^h 24'	26 ^h 45'	7 ^h 59'	14 ^h 20'	27 ^h 09'	25 ^h 30'	19 ^h 32'	18 ^h 52'	23 ^h 59'	21 ^h 10'
T 25	20 11 03	2 ^h 23'00"	19 ^h 27'	18 ^h 33'	19 ^h 10'	2 ^h 02'	26 ^h 37'	8 ^h 07'	14 ^h 23'	27 ^h 09'	25 ^h 32'	19 ^h 32'	18 ^h 49'	24 ^h 05'	21 ^h 07'
F 26	20 14 59	3 ^h 20'15"	4 ^h Ω16	18 ^h D30	20 ^h 16'	2 ^h 40'	26 ^h 30'	8 ^h 15'	14 ^h 25'	27 ^h 10'	25 ^h 34'	19 ^h 33'	18 ^h 45'	24 ^h 12'	21 ^h 04'
S 27	20 18 56	4 ^h 17'30"	19 ^h 20'	18 ^h 33'	21 ^h 22'	3 ^h 17'	26 ^h 22'	8 ^h 22'	14 ^h 28'	27 ^h 11'	25 ^h 35'	19 ^h R34	18 ^h 42'	24 ^h 19'	21 ^h 01'
S 28	20 22 52	5 ^h 14'46"	4 ^h Ω31	18 ^h 41'	22 ^h 28'	3 ^h 54'	26 ^h 15'	8 ^h 30'	14 ^h 30'	27 ^h 11'	25 ^h 37'	19 ^h 33'	18 ^h 39'	24 ^h 25'	20 ^h 57'
M29	20 26 49	6 ^h 12'02"	19 ^h 40'	18 ^h 55'	23 ^h 34'	4 ^h 31'	26 ^h 07'	8 ^h 38'	14 ^h 33'	27 ^h 12'	25 ^h 39'	19 ^h 32'	18 ^h 36'	24 ^h 32'	20 ^h 54'
T 30	20 30 45	7 ^h 09'19"	4 ^h X37	19 ^h 15'	24 ^h 41'	5 ^h 08'	26 ^h 00'	8 ^h 46'	14 ^h 35'	27 ^h 12'	25 ^h 41'	19 ^h 30'	18 ^h 33'	24 ^h 39'	20 ^h 51'
W31	20 34 42	8 ^h Ω 6'36"	19 ^h X15	19 ^h 540	25 ^h II47	5 ^h Ω45	25 ^h Ω52	8 ^h Ω53	14 ^h II38	27 ^h Ω13	25 ^h Ω43	19 ^h Ω28	18 ^h Ω29	24 ^h Ω45	20 ^h Ω48

Delta T = 20m00s

AUGUST 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	
T 1	20 38 38	9 ^h Ω 3'55"	3 ^h Y28	20 ^h Ω12	26 ^h II54	6 ^h Ω22	25 ^h R45	9 ^h Ω 1	14 ^h II40	27 ^h Ω14	25 ^h Ω44	19 ^h R26	18 ^h Ω26	24 ^h Ω52	20 ^h R45
F 2	20 42 35	10 ^h 01'14"	17 ^h 13'	20 ^h 49'	28 ^h 01'	6 ^h 58'	25 ^h Ω38	9 ^h 09'	14 ^h 42'	27 ^h 15'	25 ^h 46'	19 ^h Ω24	18 ^h 23'	24 ^h 58'	20 ^h Ω41
S 3	20 46 32	10 ^h 58'33"	0 ^h Ω31	21 ^h 32'	29 ^h 08'	7 ^h 34'	25 ^h 30'	9 ^h 17'	14 ^h 45'	27 ^h 15'	25 ^h 48'	19 ^h 22'	18 ^h 20'	25 ^h 05'	20 ^h 38'
S 4	20 50 28	11 ^h 55'54"	13 ^h 24'	22 ^h 21'	0 ^h Ω15	8 ^h 10'	25 ^h 23'	9 ^h 24'	14 ^h 47'	27 ^h 16'	25 ^h 50'	19 ^h D22	18 ^h 17'	25 ^h 12'	20 ^h 35'
M 5	20 54 25	12 ^h 53'16"	25 ^h 55'	23 ^h 15'	1 ^h 22'	8 ^h 46'	25 ^h 16'	9 ^h 32'	14 ^h 49'	27 ^h 17'	25 ^h 52'	19 ^h 22'	18 ^h 14'	25 ^h 18'	20 ^h 31'
T 6	20 58 21	13 ^h 50'39"	8 ^h II 9	24 ^h 15'	2 ^h 30'	9 ^h 21'	25 ^h 09'	9 ^h 40'	14 ^h 51'	27 ^h 18'	25 ^h 53'	19 ^h 24'	18 ^h 10'	25 ^h 25'	20 ^h 28'
W 7	21 02 18	14 ^h 48'03"	20 ^h 09'	25 ^h 21'	3 ^h 37'	9 ^h 56'	25 ^h 02'	9 ^h 48'	14 ^h 53'	27 ^h 19'	25 ^h 55'	19 ^h 25'	18 ^h 07'	25 ^h 32'	20 ^h 25'
T 8	21 06 14	15 ^h 45'28"	2 ^h Ω 1	26 ^h 32'	4 ^h 45'	10 ^h 31'	24 ^h 55'	9 ^h 55'	14 ^h 55'	27 ^h 20'	25 ^h 57'	19 ^h 27'	18 ^h 04'	25 ^h 38'	20 ^h 21'
F 9	21 10 11	16 ^h 42'54"	13 ^h 49'	27 ^h 48'	5 ^h 53'	11 ^h 06'	24 ^h 49'	10 ^h 03'	14 ^h 58'	27 ^h 21'	25 ^h 59'	19 ^h R28	18 ^h 01'	25 ^h 45'	20 ^h 18'
S 10	21 14 07	17 ^h 40'21"	25 ^h 35'	29 ^h 09'	7 ^h 01'	11 ^h 40'	24 ^h 42'	10 ^h 11'	15 ^h 00'	27 ^h 22'	26 ^h 01'	19 ^h 28'	17 ^h 58'	25 ^h 52'	20 ^h 15'
S 11	21 18 04	18 ^h 37'49"	7 ^h Ω24	0 ^h Ω35	8 ^h 09'	12 ^h 14'	24 ^h 36'	10 ^h 19'	15 ^h 02'	27 ^h 23'	26 ^h 03'	19 ^h 27'	17 ^h 54'	25 ^h 58'	20 ^h 11'
M12	21 22 01	19 ^h 35'17"	19 ^h 17'	2 ^h 06'	9 ^h 17'	12 ^h 48'	24 ^h 29'	10 ^h 26'	15 ^h 04'	27 ^h 24'	26 ^h 04'	19 ^h 24'	17 ^h 51'	26 ^h 05'	20 ^h 08'
T 13	21 25 57	20 ^h 32'47"	1 ^h II16	3 ^h 41'	10 ^h 26'	13 ^h 22'	24 ^h 23'	10 ^h 34'	15 ^h 05'	27 ^h 25'	26 ^h 06'	19 ^h 20'	17 ^h 48'	26 ^h 12'	20 ^h 05'
W14	21 29 54	21 ^h 30'18"	13 ^h 24'	5 ^h 20'	11 ^h 34'	13 ^h 55'	24 ^h 17'	10 ^h 42'	15 ^h 07'	27 ^h 26'	26 ^h 08'	19 ^h 14'	17 ^h 45'	26 ^h 18'	20 ^h 01'
T 15	21 33 50	22 ^h 27'49"	25 ^h 42'	7 ^h 03'	12 ^h 43'	14 ^h 28'	24 ^h 11'	10 ^h 49'	15 ^h 09'	27 ^h 27'	26 ^h 10'	19 ^h 09'	17 ^h 42'	26 ^h 25'	19 ^h 58'
F 16	21 37 47	23 ^h 25'21"	8 ^h Ω11	8 ^h 50'	13 ^h 52'	15 ^h 01'	24 ^h 05'	10 ^h 57'	15 ^h 11'	27 ^h 28'	26 ^h 12'	19 ^h 03'	17 ^h 39'		

SWISS EPHEMERIS for the year 2447

SEPTEMBER 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	22 40 52	8 ^h 48'13"	21 ^h 57'	10 ^h 28'	2 ^h 27'	23 ^h 1'	22°R51	12 ^h 57'	15 ^h 33'	27 ^h 51'	26 ^h 42'	18°R14	16 ^h 48'	28 ^h 18'	19°R 3		
M 2	22 44 48	9°46'06"	4 ^h 30'	12°25'	3°37'	23°27'	22°348	13° 4	15°34	27°52	26°43	18°D13	16°45	28°24	19°48 0		
T 3	22 48 45	10°44'00"	16°44'	14°20'	4°48'	23°54'	22°45	13°11	15°35	27°54	26°45	18°E13	16°41	28°31	18°57		
W 4	22 52 41	11°41'56"	28°43'	16°15'	5°58'	24°20'	22°42	13°18	15°36	27°56	26°47	18°14	16°38	28°38	18°54		
T 5	22 56 38	12°39'54"	10 ^h 34'	18° 8'	7° 9'	24°45'	22°40	13°26	15°37	27°57	26°49	18°15	16°35	28°44	18°51		
F 6	23 0 34	13°37'53"	22°20'	20° 0'	8°20'	25°10'	22°37	13°33	15°37	27°59	26°51	18°R15	16°32	28°51	18°48		
S 7	23 4 31	14°35'54"	4 ^h 8'	21°50'	9°31'	25°34'	22°35	13°40	15°38	28° 1	26°52	18°14	16°29	28°58	18°45		
S 8	23 8 27	15°33'57"	16° 1'	23°40'	10°42'	25°58'	22°33	13°47	15°39	28° 3	26°54	18°10	16°26	29° 4	18°42		
M 9	23 12 24	16°32'02"	28° 1'	25°28'	11°54'	26°22'	22°31	13°54	15°40	28° 4	26°56	18° 4	16°22	29°11	18°40		
T 10	23 16 21	17°30'08"	10 ^h 11'	27°15'	13° 5'	26°45'	22°29	14° 1	15°40	28° 6	26°58	17°55	16°19	29°18	18°37		
W11	23 20 17	18°28'16"	22°33'	29° 0'	14°16'	27° 7'	22°28	14° 8	15°41	28° 8	27° 0	17°45	16°16	29°24	18°34		
T 12	23 24 14	19°26'26"	5 ^h 8'	0 ^h 45'	15°28'	27°29'	22°26	14°14	15°41	28°10	27° 1	17°34	16°13	29°31	18°31		
F 13	23 28 10	20°24'37"	17°54'	2°28'	16°39'	27°51'	22°25	14°21	15°42	28°12	27° 3	17°23	16°10	29°38	18°29		
S 14	23 32 7	21°22'50"	0 ^h 53'	4°10'	17°51'	28°11'	22°24	14°28	15°42	28°13	27° 5	17°13	16° 6	29°44	18°26		
S 15	23 36 3	22°21'04"	14° 4'	5°51'	19° 3'	28°32'	22°23	14°35	15°42	28°15	27° 7	17° 6	16° 3	29°51	18°24		
M16	23 40 0	23°19'20"	27°27'	7°30'	20°14'	28°51'	22°23	14°41	15°43	28°17	27° 8	17° 0	16° 0	29°58	18°21		
T 17	23 43 56	24°17'38"	11 ^h 2'	9° 9'	21°26'	29°10'	22°22	14°48	15°43	28°19	27°10	16°58	15°57	0 ^h 4	18°19		
W18	23 47 53	25°15'57"	24°50'	10°46'	22°38'	29°29'	22°D22	14°55	15°43	28°21	27°12	16°D57	15°54	0°11	18°16		
T 19	23 51 50	26°14'17"	8 ^h 52'	12°22'	23°50'	29°47'	22°22	15° 1	15°43	28°23	27°13	16°57	15°51	0°17	18°14		
F 20	23 55 46	27°12'39"	23° 7'	13°57'	25° 2'	0 ^h 4	22°22	15° 8	15°43	28°25	27°15	16°R57	15°47	0°24	18°12		
S 21	23 59 43	28°11'02"	7 ^h 34'	15°31'	26°14'	0°21'	22°23	15°14	15°R43	28°27	27°17	16°56	15°44	0°31	18° 9		
S 22	0 3 39	29° 9'27"	22° 9'	17° 4'	27°27'	0°36'	22°23	15°20	15°43	28°29	27°18	16°52	15°41	0°37	18° 7		
M23	0 7 36	0 ^h 7'54"	6 ^h 47'	18°36'	28°39'	0°52'	22°24	15°27	15°43	28°31	27°20	16°46	15°38	0°44	18° 5		
T 24	0 11 32	1° 6'22"	21°22'	20° 7'	29°51'	1° 6'	22°25	15°33	15°43	28°33	27°21	16°37	15°35	0°51	18° 3		
W25	0 15 29	2° 4'52"	5 ^h 47'	21°36'	1 ^h 4	1°20'	22°26	15°39	15°43	28°35	27°23	16°26	15°31	0°57	18° 1		
T 26	0 19 25	3° 3'24"	19°56'	23° 5'	2°16'	1°34'	22°28	15°45	15°42	28°37	27°25	16°14	15°28	1° 4	17°59		
F 27	0 23 22	4° 0'58"	3 ^h 42'	24°32'	3°29'	1°46'	22°29	15°51	15°42	28°39	27°26	16° 3	15°25	1°11	17°57		
S 28	0 27 19	5° 0'34"	17° 4'	25°59'	4°42'	1°58'	22°31	15°57	15°42	28°41	27°28	15°54	15°22	1°17	17°55		
S 29	0 31 15	5°59'12"	0 ^h 0	27°24'	5°54'	2° 9'	22°33	16° 3	15°41	28°43	27°29	15°47	15°19	1°24	17°53		
M30	0 35 12	6 ^h 57'52"	12 ^h 34'	28 ^h 48'	7 ^h 7'	2 ^h 19'	22°35	16 ^h 9'	15 ^h 41'	28 ^h 45'	27 ^h 31'	15 ^h 43'	15 ^h 16'	1 ^h 31'	17 ^h 51'		

Delta T = 20m01s

OCTOBER 2447

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
T 1	0 39 8	7 ^h 56'35"	24 ^h 49'	0 ^h 11'	8 ^h 20'	2 ^h 29'	22°37	16 ^h 15'	15°R41	28 ^h 47'	27 ^h 32'	15°R41	15 ^h 12'	1 ^h 37'	17°R50		
W 2	0 43 5	8°55'20"	6 ^h 49'	1°33'	9°33'	2°37'	22°40	16°21	15°40	28°50	27°34	15°E40	15° 9	1°44	17°48		
T 3	0 47 1	9°54'07"	18°40'	2°54'	10°46'	2°45'	22°43	16°26	15°39	28°52	27°35	15°40	15° 6	1°51	17°46		
F 4	0 50 58	10°52'56"	0 ^h 28'	4°13'	11°59'	2°52'	22°45	16°32	15°39	28°54	27°37	15°40	15° 3	1°57	17°45		
S 5	0 54 54	11°51'47"	12°18'	5°31'	13°12'	2°59'	22°49	16°37	15°38	28°56	27°38	15°37	15° 0	2° 4	17°43		
S 6	0 58 51	12°50'41"	24°14'	6°47'	14°26'	3° 4'	22°52	16°43	15°37	28°58	27°40	15°33	14°57	2°11	17°42		
M 7	1 2 48	13°49'37"	6 ^h 21'	8° 3'	15°39'	3° 9'	22°55	16°48	15°37	29° 0	27°41	15°25	14°53	2°17	17°41		
T 8	1 6 44	14°48'34"	18°42'	9°16'	16°52'	3°12'	22°59	16°54	15°36	29° 3	27°42	15°15	14°50	2°24	17°39		
W 9	1 10 41	15°47'34"	1 ^h 18'	10°28'	18° 6'	3°15'	23° 3	16°59	15°35	29° 5	27°44	15° 3	14°47	2°30	17°38		
T 10	1 14 37	16°46'36"	14°11'	11°38'	19°19'	3°17'	23° 7	17° 4	15°34	29° 7	27°45	14°50	14°44	2°37	17°37		
F 11	1 18 34	17°45'40"	27°19'	12°47'	20°33'	3°18'	23°11	17° 9	15°33	29° 9	27°46	14°37	14°41	2°44	17°36		
S 12	1 22 30	18°44'46"	10 ^h 40'	13°53'	21°46'	3°R19	23°15	17°14	15°32	29°11	27°48	14°25	14°37	2°50	17°35		
S 13	1 26 27	19°43'54"	24°13'	14°58'	23° 0'	3°18'	23°20	17°19	15°31	29°14	27°49	14°15	14°34	2°57	17°34		
M14	1 30 23	20°43'04"	7 ^h 55'	16° 0'	24°14'	3°16'	23°24	17°24	15°30	29°16	27°50	14° 9	14°31	3° 4	17°33		
T 15	1 34 20	21°42'16"	21°45'	16°59'	25°27'	3°14'	23°29	17°29	15°29	29°18	27°51	14° 5	14°28	3°10	17°32		
W16	1 38 16	22°41'29"	5 ^h 41'	17°56'	26°41'	3°10'	23°34	17°33	15°27	29°20	27°53	14° 4	14°25	3°17	17°32		
T 17	1 42 13	23°40'45"	19°42'	18°49'	27°55'	3° 6'	23°39	17°38	15°26	29°22	27°54	14° 3	14°22	3°24	17°31		
F 18	1 46 10	24°40'02"	3 ^h 48'	19°40'	29° 9'	3° 1'	23°45	17°43	15°25	29°25	27°55	14° 3	14°18	3°30	17°30		
S 19	1 50 6	25°39'20"	17°59'	20°27'	0 ^h 23'	2°55'	23°50	17°47	15°23	29°27	27°56	14° 2	14°15	3°37	17°30		
S 20	1 54 3	26°38'40"	2 ^h 11'	21°10'	1°37'	2°48'	23°56	17°51	15°22	29°29	27°57	13°58	14°12	3°44	17°29		
M21	1 57 59	27°38'02"	16°24'	21°48'	2°51'	2°40'	24° 2	17°56	15°21	29°31	27°58	13°51	14° 9	3°50	17°29		
T 22	2 1 56	28°37'26"	0 ^h 33'	22°22'	4° 5'	2°32'	24° 8	18° 0	15°19	29°34	27°59	13°42	14° 6	3°57	17°29		
W23	2 5 52	29°36'51"	14°34'	22°51'	5°19'	2°22'	24°14	18° 4	15°18	29°36	28° 1	13°31	14° 3	4° 4	17°28		
T 24	2 9 49	0 ^h 36'19"	28°22'	23°14'	6°33'	2°12'	24°20	18° 8	15°16	29°38	28° 2	13°19	13°59	4°10	17°28		
F 25	2 13 45	1°35'49"	11 ^h 52'	23°31'	7°47'	2° 1'	24°27	18°12	15°15	29°40	28° 3	13° 8	13°56	4°17	17°28		
S 26	2 17 42	2°35'20"	25° 3'	23°41'	9° 1'	1°49'	24°33	18°16	15°13	29°42	28° 4	12°58	13°53	4°24	17°D28		
S 27	2 21 39	3°34'54"	7 ^h 54'	23°R44	10°16'	1°36'	24°40	18°19	15°11	29°45	28° 4	12°50	13°50	4°30	17°28		
M28	2 25 35	4°34'30"	20°25'	23°39'	11°30'	1°22'	24°47	18°23	15°10	29°47	28° 5	12°46	13°47	4°37	17°28		
T 29	2 29 32	5°34'08"	2 ^h 39'	23°26'	12°44'	1° 8'	24°54	18°27	15° 8	29°49	28° 6	12°43	13°43	4°44	17°28		
W30	2 33 28	6°33'48"	14°39'	23° 4'	13°59'	0°53'	25° 2	18°30	15° 6	29°51	28° 7	12°D43	13°40	4°50	17°28		
T 31	2 37 25	7 ^h 33'31"	26 ^h 31'	22 ^h 34'	15 ^h 13'	0 ^h 37'	25°3 9	18 ^h 33'	15 ^h 4	29 ^h 54'	28 ^h 8'	12 ^h 43'	13 ^h 37'	4 ^h 57'	17 ^h 29'		

Delta T = 20m01s

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SWISS EPHEMERIS for the year 2447

NOVEMBER 2447

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	2 41 21	8♏33'16	8♏19	21°R54	16♌28	0°R20	25♁17	18♏37	15°R 2	29♌56	28♏9	12°R44	13♌34	5♏3	17♌29		
S 2	2 45 18	9°33'03	20° 9	21♏5	17°42	0♏3	25°24	18°40	15♏0	29°58	28°10	12♌43	13°31	5°10	17°30		
S 3	2 49 14	10°32'52	2♏7	20° 9	18°57	29♌46	25°32	18°43	14°58	0♏0	28°10	12°40	13°28	5°17	17°30		
M 4	2 53 11	11°32'43	14°17	19° 4	20°12	29°27	25°40	18°46	14°57	0° 2	28°11	12°36	13°24	5°23	17°31		
T 5	2 57 8	12°32'36	26°44	17°54	21°26	29° 9	25°48	18°49	14°55	0° 5	28°12	12°28	13°21	5°30	17°31		
W 6	3 1 4	13°32'32	9♌29	16°39	22°41	28°49	25°56	18°51	14°52	0° 7	28°13	12°19	13°18	5°37	17°32		
T 7	3 5 1	14°32'29	22°36	15°22	23°56	28°29	26° 5	18°54	14°50	0° 9	28°13	12° 9	13°15	5°43	17°33		
F 8	3 8 57	15°32'29	6♏2	14° 5	25°10	28° 9	26°13	18°57	14°48	0°11	28°14	11°59	13°12	5°50	17°34		
S 9	3 12 54	16°32'31	19°46	12°50	26°25	27°49	26°22	18°59	14°46	0°13	28°15	11°50	13° 8	5°57	17°35		
S 10	3 16 50	17°32'34	3♌45	11°40	27°40	27°28	26°31	19° 1	14°44	0°16	28°15	11°42	13° 5	6° 3	17°36		
M 11	3 20 47	18°32'39	17°53	10°37	28°55	27° 7	26°40	19° 3	14°42	0°18	28°16	11°38	13° 2	6°10	17°37		
T 12	3 24 43	19°32'46	2♁8	9°42	0♏10	26°46	26°49	19° 6	14°40	0°20	28°16	11°35	12°59	6°17	17°38		
W 13	3 28 40	20°32'55	16°23	8°58	1°24	26°24	26°58	19° 8	14°37	0°22	28°17	11°D35	12°56	6°23	17°39		
T 14	3 32 37	21°33'05	0♌38	8°24	2°39	26° 3	27° 7	19°10	14°35	0°24	28°17	11°36	12°53	6°30	17°40		
F 15	3 36 33	22°33'16	14°49	8° 3	3°54	25°41	27°17	19°11	14°33	0°26	28°18	11°37	12°49	6°37	17°42		
S 16	3 40 30	23°33'29	28°54	7°D52	5° 9	25°20	27°26	19°13	14°31	0°28	28°18	11°R37	12°46	6°43	17°43		
S 17	3 44 26	24°33'43	12♌54	7°54	6°24	24°58	27°36	19°15	14°28	0°30	28°18	11°35	12°43	6°50	17°45		
M 18	3 48 23	25°33'59	26°46	8° 6	7°39	24°37	27°46	19°16	14°26	0°33	28°19	11°32	12°40	6°57	17°46		
T 19	3 52 19	26°34'16	10♏30	8°28	8°54	24°16	27°56	19°17	14°24	0°35	28°19	11°26	12°37	7° 3	17°48		
W 20	3 56 16	27°34'35	24° 4	9° 0	10° 9	23°55	28° 6	19°19	14°21	0°37	28°19	11°19	12°34	7°10	17°49		
T 21	4 0 12	28°34'55	7♌25	9°40	11°24	23°35	28°16	19°20	14°19	0°39	28°20	11°11	12°30	7°17	17°51		
F 22	4 4 9	29°35'16	20°33	10°27	12°39	23°14	28°26	19°21	14°16	0°41	28°20	11° 4	12°27	7°23	17°53		
S 23	4 8 6	0♌35'40	3♏25	11°22	13°55	22°55	28°37	19°22	14°14	0°43	28°20	10°58	12°24	7°30	17°55		
S 24	4 12 2	1°36'05	16° 2	12°22	15°10	22°35	28°47	19°23	14°12	0°45	28°20	10°53	12°21	7°37	17°57		
M 25	4 15 59	2°36'31	28°24	13°27	16°25	22°16	28°58	19°23	14° 9	0°47	28°20	10°50	12°18	7°43	17°59		
T 26	4 19 55	3°36'59	10♌33	14°36	17°40	21°57	29° 8	19°24	14° 7	0°49	28°21	10°D49	12°14	7°50	18° 1		
W 27	4 23 52	4°37'29	22°31	15°50	18°55	21°39	29°19	19°24	14° 4	0°51	28°21	10°50	12°11	7°57	18° 3		
T 28	4 27 48	5°38'01	4♏22	17° 6	20°10	21°22	29°30	19°25	14° 2	0°52	28°21	10°52	12° 8	8° 3	18° 5		
F 29	4 31 45	6°38'34	16°10	18°25	21°26	21° 5	29°41	19°25	13°59	0°54	28°21	10°53	12° 5	8°10	18° 7		
S 30	4 35 41	7♌39'09	28♏0	19♏47	22♏41	20♌49	29♁52	19♏25	13♏57	0♏56	28°R21	10♌55	12♌2	8♏17	18♌10		

Delta T = 20m01s

DECEMBER 2447

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	4 39 38	8♌39'46	9♏57	21♏11	23♏56	20°R33	0♌3	19°R25	13°R54	0♏58	28°R21	10°R55	11♌59	8♏23	18♌12		
M 2	4 43 35	9°40'24	22° 6	22°36	25°11	20♌18	0°15	19♏25	13♏52	1° 0	28♏21	10♌55	11°55	8°30	18°15		
T 3	4 47 31	10°41'04	4♌32	24° 2	26°27	20° 4	0°26	19°25	13°49	1° 2	28°21	10°52	11°52	8°37	18°17		
W 4	4 51 28	11°41'46	17°18	25°30	27°42	19°50	0°38	19°24	13°47	1° 4	28°20	10°49	11°49	8°43	18°20		
T 5	4 55 24	12°42'29	0♏28	26°59	28°57	19°37	0°49	19°24	13°44	1° 5	28°20	10°45	11°46	8°50	18°22		
F 6	4 59 21	13°43'13	14° 3	28°29	0♌13	19°25	1° 1	19°23	13°42	1° 7	28°20	10°40	11°43	8°57	18°25		
S 7	5 3 17	14°43'59	28° 1	29°59	1°28	19°14	1°13	19°23	13°39	1° 9	28°20	10°36	11°40	9° 3	18°28		
S 8	5 7 14	15°44'47	12♌19	1♌30	2°43	19° 3	1°24	19°22	13°37	1°11	28°20	10°33	11°36	9°10	18°31		
M 9	5 11 10	16°45'36	26°52	3° 1	3°59	18°54	1°36	19°21	13°34	1°12	28°20	10°31	11°33	9°17	18°33		
T 10	5 15 7	17°46'26	11♌34	4°33	5°14	18°45	1°48	19°20	13°31	1°14	28°19	10°D31	11°30	9°23	18°36		
W 11	5 19 4	18°47'16	26°17	6° 5	6°29	18°37	2° 0	19°19	13°29	1°16	28°19	10°31	11°27	9°30	18°39		
T 12	5 23 0	19°48'08	10♌56	7°37	7°45	18°29	2°13	19°18	13°26	1°17	28°19	10°32	11°24	9°37	18°42		
F 13	5 26 57	20°49'01	25°25	9° 9	9° 0	18°23	2°25	19°16	13°24	1°19	28°18	10°34	11°20	9°43	18°45		
S 14	5 30 53	21°49'54	9♌40	10°42	10°16	18°17	2°37	19°15	13°21	1°21	28°18	10°35	11°17	9°50	18°48		
S 15	5 34 50	22°50'48	23°40	12°14	11°31	18°13	2°49	19°13	13°19	1°22	28°17	10°R35	11°14	9°56	18°52		
M 16	5 38 46	23°51'42	7♏24	13°47	12°46	18° 9	3° 2	19°12	13°16	1°24	28°17	10°35	11°11	10° 3	18°55		
T 17	5 42 43	24°52'38	20°52	15°20	14° 2	18° 6	3°14	19°10	13°14	1°25	28°16	10°33	11° 8	10°10	18°58		
W 18	5 46 40	25°53'34	4♌4	16°53	15°17	18° 4	3°27	19° 8	13°12	1°27	28°16	10°32	11° 5	10°16	19° 1		
T 19	5 50 36	26°54'30	17° 2	18°26	16°33	18° 2	3°40	19° 6	13° 9	1°28	28°15	10°30	11° 1	10°23	19° 5		
F 20	5 54 33	27°55'27	29°46	19°59	17°48	18°D 1	3°52	19° 4	13° 7	1°30	28°15	10°28	10°58	10°30	19° 8		
S 21	5 58 29	28°56'25	12♏18	21°33	19° 3	18° 2	4° 5	19° 2	13° 4	1°31	28°14	10°26	10°55	10°36	19°12		
S 22	6 2 26	29°57'24	24°38	23° 6	20°19	18° 3	4°18	19° 0	13° 2	1°32	28°14	10°25	10°52	10°43	19°15		
M 23	6 6 22	0♌58'24	6♌48	24°39	21°34	18° 4	4°31	18°57	13° 0	1°34	28°13	10°D25	10°49	10°50	19°19		
T 24	6 10 19	1°59'24	18°49	26°13	22°50	18° 7	4°44	18°55	12°57	1°35	28°12	10°25	10°46	10°56	19°22		
W 25	6 14 15	3° 0'25	0♏43	27°47	24° 5	18°10	4°57	18°52	12°55	1°36	28°12	10°25	10°42	11° 3	19°26		
T 26	6 18 12	4° 1'26	12°33	29°21	25°21	18°14	5°10	18°49	12°53	1°38	28°11	10°26	10°39	11°10	19°30		
F 27	6 22 9	5° 2'29	24°21	0♌55	26°36	18°19	5°23	18°47	12°50	1°39	28°10	10°27	10°36	11°16	19°34		
S 28	6 26 5	6° 3'32	6♏11	2°29	27°52	18°24	5°37	18°44	12°48	1°40	28° 9	10°27	10°33	11°23	19°37		
S 29	6 30 2	7° 4'36	18° 8	4° 3	29° 7	18°30	5°50	18°41	12°46	1°41	28° 9	10°28	10°30	11°30	19°41		
M 30	6 33 58	8° 5'40	0♌14	5°38	0♌23	18°37	6° 3	18°38	12°43	1°42	28° 8	10°28	10°26	11°36	19°45		
T 31	6 37 55	9♌6'46	12♌36	7♌12	1♌38	18♌45	6♌16	18♏35	12♏41	1♏43	28♏7	10°R28	10♌23	11♏43	19♌49		

Delta T = 20m02s

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