

SWISS EPHEMERIS for the year 2091

JANUARY 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	6 43 39	10♈47'45	14♈47	21♈21	24♈46	22♈26	3♈14	20°R27	12♈41	27°R16	23°R29	14°R 7	15♈0	6♈2	16°R24
T 2	6 47 36	11°48'53	27°13	22°44	25°53	22°41	3°28	20°II22	12°43	27°R15	23°R29	13♈59	14°56	6°9	16°R20
W 3	6 51 32	12°50'02	9♈59	24°8	26°59	22°56	3°42	20°18	12°45	27°14	23°29	13°49	14°53	6°16	16°16
T 4	6 55 29	13°51'10	23°5	25°32	28°6	23°10	3°55	20°14	12°47	27°13	23°28	13°38	14°50	6°22	16°12
F 5	6 59 26	14°52'18	6♈31	26°57	29°13	23°24	4°9	20°9	12°50	27°12	23°28	13°28	14°47	6°29	16°8
S 6	7 3 22	15°53'26	20°15	28°24	0♈21	23°37	4°23	20°5	12°52	27°11	23°28	13°18	14°44	6°36	16°4
S 7	7 7 19	16°54'34	4♈12	29°50	1°28	23°50	4°36	20°1	12°54	27°9	23°D28	13°10	14°41	6°42	15°59
M 8	7 11 15	17°55'42	18°20	1♈18	2°36	24°2	4°50	19°57	12°56	27°8	23°28	13°5	14°37	6°49	15°55
T 9	7 15 12	18°56'50	2♈33	2°46	3°44	24°14	5°3	19°53	12°59	27°7	23°28	13°2	14°34	6°56	15°51
W10	7 19 8	19°57'58	16°47	4°14	4°52	24°25	5°17	19°49	13°1	27°6	23°28	13°D 2	14°31	7°2	15°47
T 11	7 23 5	20°59'06	1♈0	5°44	6°0	24°35	5°30	19°45	13°3	27°4	23°29	13°3	14°28	7°9	15°43
F 12	7 27 1	22°0'14	15°9	7°13	7°8	24°45	5°44	19°41	13°6	27°3	23°29	13°4	14°25	7°16	15°39
S 13	7 30 58	23°1'22	29°14	8°43	8°17	24°54	5°57	19°37	13°8	27°2	23°29	13°R 4	14°22	7°22	15°35
S 14	7 34 55	24°2'31	13♈13	10°14	9°26	25°3	6°11	19°34	13°11	27°0	23°29	13°2	14°18	7°29	15°31
M15	7 38 51	25°3'39	27°6	11°45	10°35	25°11	6°24	19°30	13°13	26°59	23°29	12°58	14°15	7°36	15°27
T 16	7 42 48	26°4'47	10♈50	13°17	11°44	25°18	6°38	19°27	13°16	26°58	23°29	12°52	14°12	7°42	15°22
W17	7 46 44	27°5'55	24°25	14°50	12°53	25°25	6°51	19°23	13°18	26°56	23°30	12°45	14°9	7°49	15°18
T 18	7 50 41	28°7'02	7♈47	16°22	14°3	25°31	7°4	19°20	13°21	26°55	23°30	12°36	14°6	7°56	15°14
F 19	7 54 37	29°8'09	20°56	17°56	15°12	25°37	7°18	19°17	13°24	26°53	23°30	12°28	14°2	8°2	15°10
S 20	7 58 34	0♈9'16	3♈50	19°30	16°22	25°41	7°31	19°14	13°26	26°52	23°30	12°21	13°59	8°9	15°6
S 21	8 2 31	1°10'22	16°28	21°4	17°31	25°45	7°44	19°11	13°29	26°51	23°31	12°16	13°56	8°16	15°3
M22	8 6 27	2°11'27	28°51	22°39	18°41	25°49	7°57	19°8	13°32	26°49	23°31	12°13	13°53	8°22	14°59
T 23	8 10 24	3°12'32	11♈1	24°14	19°51	25°51	8°11	19°5	13°35	26°48	23°31	12°D12	13°50	8°29	14°55
W24	8 14 20	4°13'35	22°59	25°50	21°1	25°53	8°24	19°2	13°37	26°46	23°32	12°13	13°47	8°36	14°51
T 25	8 18 17	5°14'38	4♈50	27°27	22°12	25°54	8°37	18°59	13°40	26°45	23°32	12°14	13°43	8°42	14°47
F 26	8 22 13	6°15'40	16°38	29°4	23°22	25°R55	8°50	18°57	13°43	26°43	23°33	12°16	13°40	8°49	14°43
S 27	8 26 10	7°16'40	28°28	0♈42	24°32	25°54	9°3	18°54	13°46	26°41	23°33	12°18	13°37	8°56	14°40
S 28	8 30 6	8°17'40	10♈24	2°21	25°43	25°53	9°16	18°52	13°49	26°40	23°34	12°R18	13°34	9°2	14°36
M29	8 34 3	9°18'38	22°33	4°0	26°53	25°52	9°29	18°50	13°52	26°38	23°34	12°17	13°31	9°9	14°32
T 30	8 37 59	10°19'36	4♈59	5°39	28°4	25°49	9°41	18°48	13°55	26°37	23°35	12°15	13°28	9°15	14°29
W31	8 41 56	11°20'32	17♈45	7♈20	29°15	25°46	9♈54	18♈46	13°58	26°35	23°R35	12°11	13°24	9°22	14°25

Delta T = 198.50 sec.

FEBRUARY 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 45 53	12°21'27	0♈55	9♈1	0♈26	25°R41	10♈7	18°R44	14♈1	26°R33	23°R36	12°R 6	13♈21	9♈29	14°R22
F 2	8 49 49	13°22'21	14°29	10°43	1°37	25°R37	10°20	18°II42	14°4	26°R32	23°R36	12°R 1	13°18	9°35	14°R18
S 3	8 53 46	14°23'13	28°26	12°25	2°48	25°31	10°32	18°40	14°7	26°30	23°37	11°57	13°15	9°42	14°15
S 4	8 57 42	15°24'05	12♈44	14°8	3°59	25°24	10°45	18°38	14°10	26°29	23°37	11°54	13°12	9°49	14°11
M 5	9 1 39	16°24'55	27°16	15°52	5°10	25°17	10°57	18°37	14°13	26°27	23°38	11°52	13°8	9°55	14°8
T 6	9 5 35	17°25'44	11♈57	17°37	6°21	25°9	11°10	18°36	14°17	26°25	23°39	11°D51	13°5	10°2	14°5
W 7	9 9 32	18°26'32	26°39	19°22	7°33	25°0	11°22	18°34	14°20	26°24	23°39	11°52	13°2	10°9	14°2
T 8	9 13 28	19°27'19	11♈17	21°9	8°44	24°50	11°34	18°33	14°23	26°22	23°40	11°53	12°59	10°15	13°59
F 9	9 17 25	20°28'05	25°45	22°55	9°56	24°40	11°47	18°32	14°26	26°20	23°41	11°54	12°56	10°22	13°56
S 10	9 21 22	21°28'51	10♈0	24°43	11°7	24°29	11°59	18°31	14°29	26°19	23°41	11°55	12°53	10°29	13°53
S 11	9 25 18	22°29'35	24°0	26°31	12°19	24°17	12°11	18°30	14°33	26°17	23°42	11°R56	12°49	10°35	13°50
M12	9 29 15	23°30'18	7♈45	28°19	13°31	24°4	12°23	18°29	14°36	26°15	23°43	11°55	12°46	10°42	13°47
T 13	9 33 11	24°31'01	21°13	0♈9	14°42	23°51	12°35	18°29	14°39	26°14	23°44	11°54	12°43	10°49	13°44
W14	9 37 8	25°31'42	4♈27	1°58	15°54	23°36	12°47	18°28	14°42	26°12	23°45	11°52	12°40	10°55	13°42
T 15	9 41 4	26°32'22	17°25	3°48	17°6	23°21	12°59	18°28	14°46	26°10	23°45	11°49	12°37	11°2	13°39
F 16	9 45 1	27°33'01	0♈11	5°38	18°18	23°6	13°10	18°28	14°49	26°8	23°46	11°47	12°34	11°9	13°36
S 17	9 48 57	28°33'38	12°43	7°29	19°30	22°49	13°22	18°27	14°52	26°7	23°47	11°45	12°30	11°15	13°34
S 18	9 52 54	29°34'14	25°4	9°19	20°42	22°32	13°34	18°D27	14°56	26°5	23°48	11°44	12°27	11°22	13°32
M19	9 56 51	0♈34'49	7♈15	11°9	21°54	22°14	13°45	18°27	14°59	26°3	23°49	11°D44	12°24	11°29	13°29
T 20	10 0 47	1°35'21	19°16	12°58	23°6	21°56	13°56	18°28	15°2	26°2	23°50	11°44	12°21	11°35	13°27
W21	10 4 44	2°35'53	1°10	14°47	24°19	21°37	14°8	18°28	15°6	26°0	23°51	11°44	12°18	11°42	13°25
T 22	10 8 40	3°36'22	13°0	16°34	25°31	21°17	14°19	18°28	15°9	25°58	23°52	11°45	12°14	11°49	13°23
F 23	10 12 37	4°36'50	24°48	18°20	26°43	20°57	14°30	18°29	15°13	25°57	23°53	11°46	12°11	11°55	13°21
S 24	10 16 33	5°37'16	6♈38	20°4	27°55	20°36	14°41	18°29	15°16	25°55	23°54	11°47	12°8	12°2	13°19
S 25	10 20 30	6°37'40	18°34	21°45	29°8	20°15	14°52	18°30	15°19	25°53	23°55	11°47	12°5	12°9	13°17
M26	10 24 26	7°38'03	0♈40	23°24	0♈20	19°54	15°3	18°31	15°23	25°52	23°56	11°47	12°2	12°15	13°15
T 27	10 28 23	8°38'23	13°2	24°59	1°32	19°32	15°14	18°32	15°26	25°50	23°57	11°R47	11°59	12°22	13°14
W28	10 32 19	9♈38'41	25♈43	26♈31	2♈45	19°10	15°25	18♈33	15♈30	25°49	23°R58	11°47	11°55	12°R29	13°R12

Delta T = 198.67 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

SWISS EPHEMERIS for the year 2091

MARCH 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	10 36 16	10 ^h 38'58"	8 ^h 48'	27 ^h 57'	3 ^h 55'	18 ^h R47	15 ^h 35'	18 ^h 34'	15 ^h 33'	25 ^h R47	23 ^h 59'	11 ^h R47	11 ^h 52'	12 ^h 35'	13 ^h R10
F 2	10 40 13	11 ^h 39'12"	22 ^h 18'	29 ^h 19'	5 ^h 10'	18 ^h 24'	15 ^h 46'	18 ^h 36'	15 ^h 36'	25 ^h 45'	24 ^h 0'	11 ^h D47	11 ^h 49'	12 ^h 42'	13 ^h 5 9
S 3	10 44 9	12 ^h 39'24"	6 ^h 16'	0 ^h 35'	6 ^h 22'	18 ^h 1'	15 ^h 56'	18 ^h 37'	15 ^h 40'	25 ^h 44'	24 ^h 1'	11 ^h 47'	11 ^h 46'	12 ^h 49'	13 ^h 8
S 4	10 48 6	13 ^h 39'35"	20 ^h 38'	1 ^h 44'	7 ^h 35'	17 ^h 38'	16 ^h 6'	18 ^h 38'	15 ^h 43'	25 ^h 42'	24 ^h 2'	11 ^h 47'	11 ^h 43'	12 ^h 55'	13 ^h 7
M 5	10 52 2	14 ^h 39'43"	5 ^h 23'	2 ^h 46'	8 ^h 48'	17 ^h 14'	16 ^h 17'	18 ^h 40'	15 ^h 47'	25 ^h 41'	24 ^h 3'	11 ^h R47	11 ^h 39'	13 ^h 2	13 ^h 5
T 6	10 55 59	15 ^h 39'50"	20 ^h 22'	3 ^h 41'	10 ^h 0'	16 ^h 50'	16 ^h 27'	18 ^h 42'	15 ^h 50'	25 ^h 39'	24 ^h 4'	11 ^h 47'	11 ^h 36'	13 ^h 9	13 ^h 4
W 7	10 59 55	16 ^h 39'54"	5 ^h 27'	4 ^h 28'	11 ^h 13'	16 ^h 27'	16 ^h 37'	18 ^h 44'	15 ^h 54'	25 ^h 37'	24 ^h 6'	11 ^h 47'	11 ^h 33'	13 ^h 15'	13 ^h 3
T 8	11 3 52	17 ^h 39'57"	20 ^h 30'	5 ^h 6'	12 ^h 26'	16 ^h 3'	16 ^h 47'	18 ^h 46'	15 ^h 57'	25 ^h 36'	24 ^h 7'	11 ^h 47'	11 ^h 30'	13 ^h 22'	13 ^h 2
F 9	11 7 48	18 ^h 39'59"	5 ^h 23'	5 ^h 36'	13 ^h 38'	15 ^h 39'	16 ^h 56'	18 ^h 48'	16 ^h 1'	25 ^h 34'	24 ^h 8'	11 ^h 46'	11 ^h 27'	13 ^h 29'	13 ^h 2
S 10	11 11 45	19 ^h 39'58"	19 ^h 57'	5 ^h 57'	14 ^h 51'	15 ^h 16'	17 ^h 6'	18 ^h 50'	16 ^h 4'	25 ^h 33'	24 ^h 9'	11 ^h 45'	11 ^h 24'	13 ^h 35'	13 ^h 1
S 11	11 15 42	20 ^h 39'56"	4 ^h 10'	6 ^h 9'	16 ^h 4'	14 ^h 52'	17 ^h 16'	18 ^h 52'	16 ^h 7'	25 ^h 31'	24 ^h 10'	11 ^h 44'	11 ^h 20'	13 ^h 42'	13 ^h 0
M 12	11 19 38	21 ^h 39'53"	17 ^h 59'	6 ^h R12	17 ^h 17'	14 ^h 29'	17 ^h 25'	18 ^h 55'	16 ^h 11'	25 ^h 30'	24 ^h 11'	11 ^h D44	11 ^h 17'	13 ^h 49'	13 ^h 0
T 13	11 23 35	22 ^h 39'48"	1 ^h 35'	6 ^h 6'	18 ^h 30'	14 ^h 6'	17 ^h 34'	18 ^h 57'	16 ^h 14'	25 ^h 28'	24 ^h 13'	11 ^h 44'	11 ^h 14'	13 ^h 55'	12 ^h 59
W 14	11 27 31	23 ^h 39'41"	14 ^h 29'	5 ^h 52'	19 ^h 42'	13 ^h 43'	17 ^h 44'	19 ^h 0'	16 ^h 18'	25 ^h 27'	24 ^h 14'	11 ^h 45'	11 ^h 11'	14 ^h 2	12 ^h 59
T 15	11 31 28	24 ^h 39'33"	27 ^h 14'	5 ^h 30'	20 ^h 55'	13 ^h 20'	17 ^h 53'	19 ^h 2'	16 ^h 21'	25 ^h 25'	24 ^h 15'	11 ^h 46'	11 ^h 8'	14 ^h 9	12 ^h 59
F 16	11 35 24	25 ^h 39'23"	9 ^h 43'	5 ^h 0'	22 ^h 8'	12 ^h 58'	18 ^h 2'	19 ^h 5'	16 ^h 24'	25 ^h 24'	24 ^h 16'	11 ^h 47'	11 ^h 5'	14 ^h 15'	12 ^h 59
S 17	11 39 21	26 ^h 39'11"	21 ^h 59'	4 ^h 23'	23 ^h 21'	12 ^h 36'	18 ^h 10'	19 ^h 8'	16 ^h 28'	25 ^h 23'	24 ^h 18'	11 ^h 48'	11 ^h 1'	14 ^h 22'	12 ^h D59
S 18	11 43 17	27 ^h 38'57"	4 ^h 5'	3 ^h 41'	24 ^h 34'	12 ^h 14'	18 ^h 19'	19 ^h 11'	16 ^h 31'	25 ^h 21'	24 ^h 19'	11 ^h 49'	10 ^h 58'	14 ^h 29'	12 ^h 59
M 19	11 47 14	28 ^h 38'41"	16 ^h 3'	2 ^h 54'	25 ^h 47'	11 ^h 53'	18 ^h 28'	19 ^h 14'	16 ^h 35'	25 ^h 20'	24 ^h 20'	11 ^h R49	10 ^h 55'	14 ^h 35'	12 ^h 59
T 20	11 51 10	29 ^h 38'23"	27 ^h 56'	2 ^h 3'	27 ^h 0'	11 ^h 32'	18 ^h 36'	19 ^h 17'	16 ^h 38'	25 ^h 19'	24 ^h 22'	11 ^h 48'	10 ^h 52'	14 ^h 42'	12 ^h 59
W 21	11 55 7	0 ^h 38'04"	9 ^h 46'	1 ^h 9'	28 ^h 13'	11 ^h 12'	18 ^h 45'	19 ^h 21'	16 ^h 41'	25 ^h 17'	24 ^h 23'	11 ^h 47'	10 ^h 49'	14 ^h 49'	12 ^h 59
T 22	11 59 4	1 ^h 37'42"	21 ^h 35'	0 ^h 15'	29 ^h 26'	10 ^h 52'	18 ^h 53'	19 ^h 24'	16 ^h 45'	25 ^h 16'	24 ^h 24'	11 ^h 44'	10 ^h 45'	14 ^h 55'	13 ^h 0
F 23	12 3 0	2 ^h 37'18"	3 ^h 25'	29 ^h 32'	0 ^h 39'	10 ^h 33'	19 ^h 1'	19 ^h 28'	16 ^h 48'	25 ^h 15'	24 ^h 25'	11 ^h 40'	10 ^h 42'	15 ^h 2	13 ^h 0
S 24	12 6 57	3 ^h 36'52"	15 ^h 18'	28 ^h 26'	1 ^h 52'	10 ^h 15'	19 ^h 9'	19 ^h 31'	16 ^h 51'	25 ^h 13'	24 ^h 27'	11 ^h 37'	10 ^h 39'	15 ^h 9	13 ^h 1
S 25	12 10 53	4 ^h 36'24"	27 ^h 16'	27 ^h 34'	3 ^h 5'	9 ^h 57'	19 ^h 17'	19 ^h 35'	16 ^h 55'	25 ^h 12'	24 ^h 28'	11 ^h 33'	10 ^h 36'	15 ^h 15'	13 ^h 2
M 26	12 14 50	5 ^h 35'54"	9 ^h 24'	26 ^h 45'	4 ^h 18'	9 ^h 40'	19 ^h 24'	19 ^h 39'	16 ^h 58'	25 ^h 11'	24 ^h 29'	11 ^h 30'	10 ^h 33'	15 ^h 22'	13 ^h 2
T 27	12 18 46	6 ^h 35'21"	21 ^h 45'	26 ^h 0'	5 ^h 31'	9 ^h 23'	19 ^h 32'	19 ^h 42'	17 ^h 1'	25 ^h 10'	24 ^h 31'	11 ^h 28'	10 ^h 30'	15 ^h 29'	13 ^h 3
W 28	12 22 43	7 ^h 34'47"	4 ^h 22'	25 ^h 19'	6 ^h 44'	9 ^h 8'	19 ^h 39'	19 ^h 46'	17 ^h 5'	25 ^h 9'	24 ^h 32'	11 ^h D27	10 ^h 26'	15 ^h 35'	13 ^h 4
T 29	12 26 39	8 ^h 34'10"	17 ^h 20'	24 ^h 43'	7 ^h 57'	8 ^h 53'	19 ^h 46'	19 ^h 51'	17 ^h 8'	25 ^h 8'	24 ^h 34'	11 ^h 27'	10 ^h 23'	15 ^h 42'	13 ^h 5
F 30	12 30 36	9 ^h 33'30"	0 ^h 41'	24 ^h 13'	9 ^h 11'	8 ^h 38'	19 ^h 53'	19 ^h 55'	17 ^h 11'	25 ^h 6'	24 ^h 35'	11 ^h 29'	10 ^h 20'	15 ^h 49'	13 ^h 6
S 31	12 34 32	10 ^h 32'48"	14 ^h 28'	23 ^h 48'	10 ^h 24'	8 ^h 25'	20 ^h 3'	19 ^h 59'	17 ^h 14'	25 ^h 5'	24 ^h 36'	11 ^h 30'	10 ^h 17'	15 ^h 55'	13 ^h 8

Delta T = 198.82 sec.

APRIL 2091

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	12 38 29	11 [♈] 32'04	28 [♏] 43	23 [♏] R28	11 [♏] 37	8 [♏] R12	20 [♏] 7	20 [♏] II 3	17 [♏] 18	25 [♏] R 4	24 [♏] 38	11 [♏] 31	10 [♏] 14	16 [♏] 2	13 [♏] 5 9
M 2	12 42 26	12 [♏] 31'18	13 [♏] 22	23 [♏] 15	12 [♏] 50	8 [♏] 0	20 [♏] 14	20 [♏] 8	17 [♏] 21	25 [♏] 3	24 [♏] 39	11 [♏] R32	10 [♏] 10	16 [♏] 9	13 [♏] 10
T 3	12 46 22	13 [♏] 30'29	28 [♏] 22	23 [♏] 7	14 [♏] 3	7 [♏] 48	20 [♏] 20	20 [♏] 12	17 [♏] 24	25 [♏] 2	24 [♏] 40	11 [♏] 31	10 [♏] 7	16 [♏] 15	13 [♏] 12
W 4	12 50 19	14 [♏] 29'38	13 [♏] 36	23 [♏] D 5	15 [♏] 16	7 [♏] 38	20 [♏] 27	20 [♏] 17	17 [♏] 27	25 [♏] 1	24 [♏] 42	11 [♏] 28	10 [♏] 4	16 [♏] 22	13 [♏] 13
T 5	12 54 15	15 [♏] 28'45	28 [♏] 52	23 [♏] 8	16 [♏] 29	7 [♏] 28	20 [♏] 33	20 [♏] 21	17 [♏] 30	25 [♏] 0	24 [♏] 43	11 [♏] 24	10 [♏] 1	16 [♏] 29	13 [♏] 15
F 6	12 58 12	16 [♏] 27'50	14 [♏] 1	23 [♏] 17	17 [♏] 42	7 [♏] 19	20 [♏] 39	20 [♏] 26	17 [♏] 33	24 [♏] 59	24 [♏] 45	11 [♏] 19	9 [♏] 58	16 [♏] 35	13 [♏] 17
S 7	13 2 8	17 [♏] 26'54	28 [♏] 54	23 [♏] 31	18 [♏] 56	7 [♏] 11	20 [♏] 45	20 [♏] 31	17 [♏] 37	24 [♏] 58	24 [♏] 46	11 [♏] 14	9 [♏] 55	16 [♏] 42	13 [♏] 19
S 8	13 6 5	18 [♏] 25'55	13 [♏] 22	23 [♏] 50	20 [♏] 9	7 [♏] 3	20 [♏] 50	20 [♏] 36	17 [♏] 40	24 [♏] 58	24 [♏] 47	11 [♏] 9	9 [♏] 51	16 [♏] 49	13 [♏] 21
M 9	13 10 1	19 [♏] 24'55	27 [♏] 23	24 [♏] 14	21 [♏] 22	6 [♏] 57	20 [♏] 56	20 [♏] 41	17 [♏] 43	24 [♏] 57	24 [♏] 49	11 [♏] 6	9 [♏] 48	16 [♏] 55	13 [♏] 23
T 10	13 13 58	20 [♏] 23'53	10 [♏] 35	24 [♏] 42	22 [♏] 35	6 [♏] 51	21 [♏] 1	20 [♏] 46	17 [♏] 46	24 [♏] 56	24 [♏] 50	11 [♏] 4	9 [♏] 45	17 [♏] 2	13 [♏] 25
W 11	13 17 55	21 [♏] 22'50	24 [♏] 0	25 [♏] 15	23 [♏] 48	6 [♏] 46	21 [♏] 7	20 [♏] 51	17 [♏] 49	24 [♏] 55	24 [♏] 52	11 [♏] D 3	9 [♏] 42	17 [♏] 9	13 [♏] 27
T 12	13 21 51	22 [♏] 21'44	6 [♏] 41	25 [♏] 51	25 [♏] 2	6 [♏] 41	21 [♏] 12	20 [♏] 56	17 [♏] 52	24 [♏] 54	24 [♏] 53	11 [♏] 4	9 [♏] 39	17 [♏] 15	13 [♏] 29
F 13	13 25 48	23 [♏] 20'37	19 [♏] 4	26 [♏] 32	26 [♏] 15	6 [♏] 38	21 [♏] 17	21 [♏] 2	17 [♏] 55	24 [♏] 54	24 [♏] 54	11 [♏] 6	9 [♏] 36	17 [♏] 22	13 [♏] 32
S 14	13 29 44	24 [♏] 19'28	1 [♏] 11	27 [♏] 16	27 [♏] 28	6 [♏] 35	21 [♏] 21	21 [♏] 7	17 [♏] 58	24 [♏] 53	24 [♏] 56	11 [♏] 7	9 [♏] 32	17 [♏] 29	13 [♏] 34
S 15	13 33 41	25 [♏] 18'17	13 [♏] 9	28 [♏] 4	28 [♏] 41	6 [♏] 33	21 [♏] 26	21 [♏] 12	18 [♏] 1	24 [♏] 52	24 [♏] 57	11 [♏] R 8	9 [♏] 29	17 [♏] 35	13 [♏] 36
M 16	13 37 37	26 [♏] 17'05	25 [♏] 0	28 [♏] 55	29 [♏] 55	6 [♏] 32	21 [♏] 30	21 [♏] 18	18 [♏] 3	24 [♏] 52	24 [♏] 59	11 [♏] 6	9 [♏] 26	17 [♏] 42	13 [♏] 39
T 17	13 41 34	27 [♏] 15'50	6 [♏] 48	29 [♏] 49	1 [♏] 8	6 [♏] D31	21 [♏] 35	21 [♏] 24	18 [♏] 6	24 [♏] 51	25 [♏] 0	11 [♏] 3	9 [♏] 23	17 [♏] 49	13 [♏] 42
W 18	13 45 30	28 [♏] 14'34	18 [♏] 36	0 [♏] 46	2 [♏] 21	6 [♏] 31	21 [♏] 39	21 [♏] 29	18 [♏] 9	24 [♏] 50	25 [♏] 1	10 [♏] 58	9 [♏] 20	17 [♏] 55	13 [♏] 45
T 19	13 49 27	29 [♏] 13'16	0 [♏] 26	1 [♏] 47	3 [♏] 34	6 [♏] 32	21 [♏] 42	21 [♏] 35	18 [♏] 12	24 [♏] 50	25 [♏] 3	10 [♏] 50	9 [♏] 16	18 [♏] 2	13 [♏] 47
F 20	13 53 23	0 [♏] 11'56	12 [♏] 20	2 [♏] 49	4 [♏] 48	6 [♏] 34	21 [♏] 46	21 [♏] 41	18 [♏] 15	24 [♏] 49	25 [♏] 4	10 [♏] 41	9 [♏] 13	18 [♏] 9	13 [♏] 50
S 21	13 57 20	1 [♏] 10'34	24 [♏] 20	3 [♏] 55	6 [♏] 1	6 [♏] 36	21 [♏] 50	21 [♏] 47	18 [♏] 17	24 [♏] 49	25 [♏] 6	10 [♏] 32	9 [♏] 10	18 [♏] 16	13 [♏] 53
S 22	14 1 17	2 [♏] 9'10	6 [♏] II26	5 [♏] 3	7 [♏] 14	6 [♏] 40	21 [♏] 53	21 [♏] 53	18 [♏] 20	24 [♏] 48	25 [♏] 7	10 [♏] 22	9 [♏] 7	18 [♏] 22	13 [♏] 56
M 23	14 5 13	3 [♏] 7'44	18 [♏] 41	6 [♏] 14	8 [♏] 28	6 [♏] 43	21 [♏] 56	21 [♏] 59	18 [♏] 23	24 [♏] 48	25 [♏] 8	10 [♏] 13	9 [♏] 4	18 [♏] 29	14 [♏] 0
T 24	14 9 10	4 [♏] 6'15	1 [♏] 7	7 [♏] 26	9 [♏] 41	6 [♏] 48	21 [♏] 59	22 [♏] 5	18 [♏] 25	24 [♏] 48	25 [♏] 10	10 [♏] 7	9 [♏] 1	18 [♏] 36	14 [♏] 3
W 25	14 13 6	5 [♏] 4'45	13 [♏] 47	8 [♏] 42	10 [♏] 54	6 [♏] 53	22 [♏] 2	22 [♏] 11	18 [♏] 28	24 [♏] 47	25 [♏] 11	10 [♏] 2	8 [♏] 57	18 [♏] 42	14 [♏] 6
T 26	14 17 3	6 [♏] 3'13	26 [♏] 42	9 [♏] 59	12 [♏] 7	6 [♏] 59	22 [♏] 5	22 [♏] 17	18 [♏] 31	24 [♏] 47	25 [♏] 13	10 [♏] 0	8 [♏] 54	18 [♏] 49	14 [♏] 10
F 27	14 20 59	7 [♏] 1'38	9 [♏] LS7	11 [♏] 18	13 [♏] 21	7 [♏] 6	22 [♏] 7	22 [♏] 23	18 [♏] 33	24 [♏] 47	25 [♏] 14	10 [♏] D 0	8 [♏] 51	18 [♏] 56	14 [♏] 13
S 28	14 24 56	8 [♏] 0'01	23 [♏] 35	12 [♏] 40	14 [♏] 34	7 [♏] 13	22 [♏] 9	22 [♏] 29	18 [♏] 36	24 [♏] 46	25 [♏] 15	10 [♏] 0	8 [♏] 48	19 [♏] 2	14 [♏] 17
S 29	14 28 52	8 [♏] 58'22	7 [♏] 36	14 [♏] 4	15 [♏] 47	7 [♏] 21	22 [♏] 11	22 [♏] 36	18 [♏] 38	24 [♏] 46	25 [♏] 17	10 [♏] R 1	8 [♏] 45	19 [♏] 9	14 [♏] 20
M 30	14 32 49	9 [♏] 56'41	22 [♏] 1	15 [♏] 29	17 [♏] 0	7 [♏] 29	22 [♏] 13	22 [♏] II42	18 [♏] 41	24 [♏] 46	25 [♏] 18	10 [♏] 0	8 [♏] 42	19 [♏] 16	14 [♏] 24

SWISS EPHEMERIS for the year 2091

MAY 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	14 36 46	10♈54'58	6♌49	16♍57	18♎14	7♏38	22♐15	22♐49	18♑43	24♒46	25♓20	9♒58	8♓38	19♓22	14♈28
W 2	14 40 42	11°53'13	21°52	18°27	19°27	7°48	22°17	22°55	18°45	24♌46	25°21	9♎53	8°35	19°29	14°32
T 3	14 44 39	12°51'26	7♍4	19°58	20°40	7°58	22°18	23°2	18°48	24°46	25°22	9°45	8°32	19°36	14°35
F 4	14 48 35	13°49'37	22°14	21°32	21°54	8°9	22°19	23°8	18°50	24°46	25°24	9°36	8°29	19°42	14°39
S 5	14 52 32	14°47'47	7♌12	23°7	23°7	8°20	22°20	23°15	18°52	24°D46	25°25	9°27	8°26	19°49	14°43
S 6	14 56 28	15°45'55	21°48	24°45	24°20	8°32	22°21	23°22	18°55	24°46	25°26	9°18	8°22	19°56	14°48
M 7	15 0 25	16°44'02	5♈57	26°24	25°33	8°44	22°21	23°29	18°57	24°46	25°28	9°10	8°19	20°2	14°52
T 8	15 4 21	17°42'07	19°36	28°5	26°47	8°57	22°22	23°35	18°59	24°46	25°29	9°5	8°16	20°9	14°56
W 9	15 8 18	18°40'11	2♌46	29°48	28°0	9°11	22°22	23°42	19°1	24°46	25°30	9°1	8°13	20°16	15°0
T 10	15 12 15	19°38'13	15°31	1♌33	29°13	9°25	22°R22	23°49	19°3	24°46	25°32	9°D 0	8°10	20°22	15°5
F 11	15 16 11	20°36'14	27°53	3°20	0♌27	9°39	22°22	23°56	19°5	24°46	25°33	9°0	8°7	20°29	15°9
S 12	15 20 8	21°34'14	10♌0	5°9	1°40	9°54	22°21	24°3	19°7	24°46	25°34	9°R 1	8°3	20°36	15°13
S 13	15 24 4	22°32'12	21°55	7°0	2°53	10°10	22°21	24°10	19°9	24°47	25°35	9°0	8°0	20°42	15°18
M14	15 28 1	23°30'09	3♍44	8°52	4°6	10°26	22°20	24°17	19°11	24°47	25°37	8°57	7°57	20°49	15°23
T 15	15 31 57	24°28'05	15°32	10°47	5°20	10°42	22°19	24°24	19°13	24°47	25°38	8°52	7°54	20°56	15°27
W16	15 35 54	25°25'59	27°21	12°43	6°33	10°59	22°18	24°31	19°15	24°47	25°39	8°44	7°51	21°2	15°32
T 17	15 39 50	26°23'52	9♌15	14°42	7°46	11°16	22°17	24°39	19°17	24°48	25°40	8°34	7°47	21°9	15°37
F 18	15 43 47	27°21'43	21°16	16°42	9°0	11°34	22°15	24°46	19°18	24°48	25°42	8°21	7°44	21°16	15°42
S 19	15 47 43	28°19'33	3♌26	18°44	10°13	11°52	22°14	24°53	19°20	24°49	25°43	8°8	7°41	21°23	15°47
S 20	15 51 40	29°17'22	15°44	20°47	11°26	12°11	22°12	25°0	19°22	24°49	25°44	7°55	7°38	21°29	15°51
M21	15 55 37	0♌15'10	28°12	22°53	12°40	12°30	22°10	25°8	19°23	24°50	25°45	7°43	7°35	21°36	15°56
T 22	15 59 33	1°12'55	10♌51	24°59	13°53	12°49	22°7	25°15	19°25	24°50	25°47	7°33	7°32	21°43	16°2
W23	16 3 30	2°10'40	23°42	27°7	15°6	13°9	22°5	25°22	19°27	24°51	25°48	7°26	7°28	21°49	16°7
T 24	16 7 26	3°8'23	6♌45	29°17	16°20	13°29	22°2	25°30	19°28	24°51	25°49	7°22	7°25	21°56	16°12
F 25	16 11 23	4°6'04	20°3	1♌27	17°33	13°50	22°0	25°37	19°30	24°52	25°50	7°20	7°22	22°3	16°17
S 26	16 15 19	5°3'43	3♌37	3°38	18°46	14°11	21°57	25°45	19°31	24°53	25°51	7°19	7°19	22°9	16°22
S 27	16 19 16	6°1'21	17°30	5°50	20°0	14°32	21°53	25°52	19°32	24°53	25°52	7°19	7°16	22°16	16°28
M28	16 23 13	6°58'58	1♌42	8°1	21°13	14°54	21°50	26°0	19°34	24°54	25°53	7°18	7°13	22°23	16°33
T 29	16 27 9	7°56'33	16°12	10°13	22°26	15°16	21°47	26°7	19°35	24°55	25°55	7°15	7°9	22°29	16°38
W30	16 31 6	8°54'06	0♌56	12°25	23°40	15°38	21°43	26°15	19°36	24°56	25°56	7°9	7°6	22°36	16°44
T 31	16 35 2	9♌51'38	15♌49	14♌36	24♌53	16♌1	21♌39	26♌23	19♌37	24♌56	25♌57	7♌1	7♌3	22♌43	16♌49

Delta T = 199.16 sec.

JUNE 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	16 38 59	10♌49'09	0♌43	16♌46	26♌6	16♌24	21°R35	26♌30	19♌38	24♌57	25♌58	6°R50	7♌0	22♌49	16♌55
S 2	16 42 55	11°46'39	15°29	18°55	27°20	16°47	21°31	26°38	19°40	24°58	25°59	6°R39	6°57	22°56	17°0
S 3	16 46 52	12°44'08	29°59	21°3	28°33	17°11	21°27	26°46	19°41	24°59	26°0	6°28	6°53	23°3	17°6
M 4	16 50 48	13°41'36	14♈5	23°10	29°47	17°35	21°22	26°53	19°42	25°0	26°1	6°19	6°50	23°9	17°12
T 5	16 54 45	14°39'04	27°45	25°14	1♌0	17°59	21°18	27°1	19°43	25°1	26°2	6°12	6°47	23°16	17°17
W 6	16 58 42	15°36'30	10♌58	27°17	2°13	18°24	21°13	27°9	19°43	25°2	26°3	6°8	6°44	23°23	17°23
T 7	17 2 38	16°33'56	23°45	29°18	3°27	18°49	21°8	27°16	19°44	25°3	26°4	6°6	6°41	23°30	17°29
F 8	17 6 35	17°31'21	6♌10	18°17	4°40	19°14	21°3	27°24	19°45	25°4	26°5	6°D 6	6°38	23°36	17°35
S 9	17 10 31	18°28'45	18°19	3°13	5°54	19°39	20°57	27°32	19°46	25°5	26°6	6°R 6	6°34	23°43	17°40
S 10	17 14 28	19°26'09	0♌16	5°7	7°7	20°5	20°52	27°40	19°47	25°6	26°7	6°5	6°31	23°50	17°46
M11	17 18 24	20°23'32	12°6	6°59	8°20	20°31	20°47	27°47	19°47	25°7	26°8	6°3	6°28	23°56	17°52
T 12	17 22 21	21°20'54	23°55	8°48	9°34	20°57	20°41	27°55	19°48	25°8	26°8	5°59	6°25	24°3	17°58
W13	17 26 17	22°18'16	5♌48	10°35	10°47	21°23	20°35	28°3	19°48	25°10	26°9	5°52	6°22	24°10	18°4
T 14	17 30 14	23°15'38	17°47	12°19	12°1	21°50	20°29	28°11	19°49	25°11	26°10	5°43	6°19	24°16	18°10
F 15	17 34 11	24°12'59	29°56	14°1	13°14	22°17	20°23	28°18	19°49	25°12	26°11	5°32	6°15	24°23	18°16
S 16	17 38 7	25°10'19	12♌17	15°40	14°28	22°45	20°17	28°26	19°50	25°13	26°12	5°20	6°12	24°30	18°22
S 17	17 42 4	26°7'39	24°49	17°16	15°41	23°12	20°11	28°34	19°50	25°15	26°13	5°8	6°9	24°36	18°28
M18	17 46 0	27°4'59	7♌35	18°51	16°55	23°40	20°4	28°42	19°51	25°16	26°13	4°57	6°6	24°43	18°35
T 19	17 49 57	28°2'17	20°32	20°22	18°8	24°8	19°58	28°50	19°51	25°17	26°14	4°48	6°3	24°50	18°41
W20	17 53 53	28°59'35	3♌41	21°51	19°22	24°36	19°51	28°58	19°51	25°19	26°15	4°42	5°59	24°56	18°47
T 21	17 57 50	29°56'53	17°2	23°17	20°35	25°4	19°44	29°5	19°51	25°20	26°16	4°38	5°56	25°3	18°53
F 22	18 1 46	0♌54'09	0♌33	24°41	21°49	25°33	19°37	29°13	19°51	25°22	26°16	4°D37	5°53	25°10	18°59
S 23	18 5 43	1°51'25	14°16	26°2	23°2	26°2	19°30	29°21	19°51	25°23	26°17	4°37	5°50	25°17	19°6
S 24	18 9 40	2°48'40	28°10	27°20	24°16	26°31	19°23	29°29	19°R52	25°25	26°18	4°R38	5°47	25°23	19°12
M25	18 13 36	3°45'55	12♌16	28°35	25°29	27°0	19°16	29°37	19°51	25°26	26°18	4°38	5°44	25°30	19°18
T 26	18 17 33	4°43'08	26°32	29°48	26°43	27°30	19°9	29°44	19°51	25°28	26°19	4°36	5°40	25°37	19°24
W27	18 21 29	5°40'21	10♌57	0♌57	27°56	28°0	19°2	29°52	19°51	25°29	26°20	4°32	5°37	25°43	19°31
T 28	18 25 26	6°37'34	25°27	2°4	29°10	28°30	18°55	0♌0	19°51	25°31	26°20	4°25	5°34	25°50	19°37
F 29	18 29 22	7°34'46	9♌56	3°7	0♌23	29°0	18°47	0°8	19°51	25°32	26°21	4°18	5°31	25°57	19°43
S 30	18 33 19	8♌31'58	24♌18	4♌8	1♌37	29♌30	18♌40	0♌16	19♌51	25♌34	26♌21	4♌9	5♌28	26♌3	19♌50

Delta T = 199.33 sec.

created from Swiss Ephemeris, Copyright Astrodiens AG [11.2.2014]

SWISS EPHEMERIS for the year 2091

JULY 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	18 37 16	9 ²⁹ 29'10	8 ²⁸ 28	5 ⁵ 5	2 ⁵ 51	0 ¹ 1	18°R32	0 ²³ 23	19°R50	25°L36	26°Y22	4°R 0	5 ²⁵ 25	26°Y10	19 ⁵⁶ 56
M 2	18 41 12	10°26'21	22°19	5°59	4° 4	0°31	18 ²⁵ 25	0°31	19°R50	25°37	26°23	3 ⁵³ 53	5°21	26°17	20° 3
T 3	18 45 9	11°23'32	5 ⁴⁹ 49	6°49	5°18	1° 2	18°17	0°39	19°50	25°39	26°23	3°48	5°18	26°23	20° 9
W 4	18 49 5	12°20'44	18°56	7°36	6°31	1°33	18°10	0°47	19°49	25°41	26°24	3°45	5°15	26°30	20°15
T 5	18 53 2	13°17'55	1 ⁴¹ 41	8°19	7°45	2° 4	18° 2	0°54	19°49	25°42	26°24	3°D44	5°12	26°37	20°22
F 6	18 56 58	14°15'06	14° 7	8°59	8°59	2°36	17°54	1° 2	19°48	25°44	26°24	3°44	5° 9	26°44	20°28
S 7	19 0 55	15°12'18	26°17	9°34	10°12	3° 7	17°47	1°10	19°48	25°46	26°25	3°45	5° 5	26°50	20°35
S 8	19 4 51	16° 9'30	8°Y15	10° 6	11°26	3°39	17°39	1°17	19°47	25°48	26°25	3°47	5° 2	26°57	20°41
M 9	19 8 48	17° 6'42	20° 8	10°33	12°40	4°11	17°31	1°25	19°46	25°49	26°26	3°R47	4°59	27° 4	20°48
T 10	19 12 45	18° 3'55	1 ⁵⁹ 59	10°56	13°53	4°43	17°23	1°33	19°46	25°51	26°26	3°46	4°56	27°10	20°54
W 11	19 16 41	19° 1'08	13°54	11°15	15° 7	5°15	17°16	1°40	19°45	25°53	26°26	3°43	4°53	27°17	21° 1
T 12	19 20 38	19°58'21	25°57	11°29	16°21	5°48	17° 8	1°48	19°44	25°55	26°27	3°38	4°50	27°24	21° 7
F 13	19 24 34	20°55'35	8 ¹² 12	11°38	17°35	6°21	17° 0	1°55	19°43	25°57	26°27	3°32	4°46	27°30	21°14
S 14	19 28 31	21°52'49	20°42	11°R43	18°48	6°53	16°53	2° 3	19°42	25°59	26°27	3°25	4°43	27°37	21°20
S 15	19 32 27	22°50'04	3 ²⁷ 27	11°43	20° 2	7°26	16°45	2°10	19°41	26° 1	26°27	3°18	4°40	27°44	21°27
M 16	19 36 24	23°47'19	16°29	11°38	21°16	7°59	16°37	2°18	19°40	26° 3	26°28	3°11	4°37	27°51	21°33
T 17	19 40 20	24°44'35	29°47	11°29	22°30	8°33	16°30	2°25	19°39	26° 5	26°28	3° 6	4°34	27°57	21°40
W 18	19 44 17	25°41'50	13 ¹⁹ 19	11°14	23°44	9° 6	16°22	2°33	19°38	26° 6	26°28	3° 3	4°31	28° 4	21°46
T 19	19 48 14	26°39'06	27° 3	10°55	24°58	9°40	16°15	2°40	19°37	26° 8	26°28	3°D 1	4°27	28°11	21°53
F 20	19 52 10	27°36'22	10 ⁵⁸ 58	10°32	26°11	10°13	16° 7	2°47	19°36	26°10	26°28	3° 2	4°24	28°17	21°59
S 21	19 56 7	28°33'39	24°59	10° 4	27°25	10°47	16° 0	2°55	19°35	26°12	26°29	3° 3	4°21	28°24	22° 6
S 22	20 0 3	29°30'55	9 ⁶ 6	9°33	28°39	11°21	15°53	3° 2	19°33	26°14	26°29	3° 4	4°18	28°31	22°12
M 23	20 4 0	0 ²⁸ 28'12	23°17	8°58	29°53	11°55	15°45	3° 9	19°32	26°17	26°29	3° 5	4°15	28°37	22°19
T 24	20 7 56	1°25'29	7 ²⁹ 29	8°21	1 ⁷ 7	12°30	15°38	3°17	19°31	26°19	26°29	3°R 5	4°11	28°44	22°25
W 25	20 11 53	2°22'46	21°41	7°41	2°21	13° 4	15°31	3°24	19°29	26°21	26°29	3° 4	4° 8	28°51	22°32
T 26	20 15 49	3°20'04	5 ⁵¹ 51	6°59	3°35	13°39	15°24	3°31	19°28	26°23	26°29	3° 1	4° 5	28°57	22°38
F 27	20 19 46	4°17'22	19°54	6°16	4°49	14°13	15°17	3°38	19°27	26°25	26°R29	2°58	4° 2	29° 4	22°44
S 28	20 23 43	5°14'41	3 ⁴⁹ 49	5°33	6° 3	14°48	15°10	3°45	19°25	26°27	26°29	2°54	3°59	29°11	22°51
S 29	20 27 39	6°12'00	17°32	4°51	7°16	15°23	15° 3	3°52	19°24	26°29	26°29	2°50	3°56	29°18	22°57
M 30	20 31 36	7° 9'19	1 ⁰ 0	4° 9	8°30	15°58	14°57	3°59	19°22	26°31	26°29	2°46	3°52	29°24	23° 4
T 31	20 35 32	8 ⁶ 6	14 ¹¹ 11	3 ³⁰ 30	9 ⁴⁴ 44	16°34	14°50	4° 6	19°R20	26°L33	26°Y29	2°44	3°49	29°Y31	23°510

Delta T = 199.49 sec.

AUGUST 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	20 39 29	9 ²⁹ 40'1	27 ⁵ 5	2°R53	10°L58	17°L 9	14°R44	4 ¹³ 13	19°R19	26°L35	26°R29	2°D43	3°46	29°Y38	23°516
T 2	20 43 25	10° 1'23	9 ⁴² 42	2 ²⁰ 20	12°12	17°44	14°R37	4°20	19°R17	26°37	26°Y28	2°43	3°43	29°44	23°23
F 3	20 47 22	10°58'46	22° 3	1°51	13°26	18°20	14°31	4°27	19°16	26°40	26°28	2°44	3°40	29°51	23°29
S 4	20 51 18	11°56'10	4°Y11	1°27	14°40	18°56	14°25	4°33	19°14	26°42	26°28	2°46	3°37	29°58	23°35
S 5	20 55 15	12°53'35	16°10	1° 8	15°54	19°32	14°19	4°40	19°12	26°44	26°28	2°47	3°33	0 ⁸ 4	23°42
M 6	20 59 12	13°51'01	28° 3	0°54	17° 8	20° 8	14°13	4°47	19°10	26°46	26°28	2°48	3°30	0°11	23°48
T 7	21 3 8	14°48'28	9 ⁵⁵ 55	0°47	18°22	20°44	14° 8	4°54	19° 8	26°48	26°28	2°R49	3°27	0°18	23°54
W 8	21 7 5	15°45'57	21°50	0°D46	19°37	21°20	14° 2	5° 0	19° 7	26°50	26°27	2°49	3°24	0°25	24° 1
T 9	21 11 1	16°43'27	3 ⁵⁵ 55	0°52	20°51	21°56	13°57	5° 7	19° 5	26°53	26°27	2°48	3°21	0°31	24° 7
F 10	21 14 58	17°40'58	16°11	1° 4	22° 5	22°33	13°51	5°13	19° 3	26°55	26°27	2°47	3°17	0°38	24°13
S 11	21 18 54	18°38'31	28°45	1°23	23°19	23°10	13°46	5°20	19° 1	26°57	26°26	2°45	3°14	0°45	24°19
S 12	21 22 51	19°36'05	11 ³⁷ 37	1°49	24°33	23°46	13°41	5°26	18°59	26°59	26°26	2°43	3°11	0°51	24°25
M 13	21 26 47	20°33'40	24°50	2°22	25°47	24°23	13°36	5°32	18°57	27° 1	26°26	2°42	3° 8	0°58	24°31
T 14	21 30 44	21°31'17	8 ²⁴ 24	3° 2	27° 1	25° 0	13°32	5°39	18°55	27° 4	26°25	2°40	3° 5	1° 5	24°38
W 15	21 34 41	22°28'54	22°17	3°49	28°15	25°37	13°27	5°45	18°53	27° 6	26°25	2°40	3° 2	1°11	24°44
T 16	21 38 37	23°26'33	6 ²⁷ 27	4°42	29°30	26°14	13°23	5°51	18°51	27° 8	26°25	2°D40	2°58	1°18	24°50
F 17	21 42 34	24°24'13	20°47	5°42	0 ⁴⁴ 44	26°52	13°19	5°57	18°49	27°10	26°24	2°40	2°55	1°25	24°56
S 18	21 46 30	25°21'54	5 ¹⁵ 15	6°48	1°58	27°29	13°15	6° 3	18°46	27°13	26°24	2°41	2°52	1°32	25° 2
S 19	21 50 27	26°19'37	19°44	8° 0	3°12	28° 7	13°11	6° 9	18°44	27°15	26°23	2°41	2°49	1°38	25° 8
M 20	21 54 23	27°17'20	4 ¹¹ 11	9°17	4°26	28°44	13° 7	6°15	18°42	27°17	26°23	2°42	2°46	1°45	25°14
T 21	21 58 20	28°15'04	18°30	10°41	5°40	29°22	13° 4	6°21	18°40	27°19	26°22	2°42	2°42	1°52	25°19
W 22	22 2 16	29°12'50	2 ³⁹ 39	12° 9	6°55	0 ⁰ 0	13° 0	6°26	18°38	27°21	26°22	2°R42	2°39	1°58	25°25
T 23	22 6 13	0 ³⁶ 36	16°37	13°42	8° 9	0°38	12°57	6°32	18°36	27°24	26°21	2°42	2°36	2° 5	25°31
F 24	22 10 9	1° 8'24	0 ²² 22	15°19	9°23	1°16	12°54	6°38	18°33	27°26	26°21	2°42	2°33	2°12	25°37
S 25	22 14 6	2° 6'13	13°53	17° 1	10°37	1°54	12°51	6°43	18°31	27°28	26°20	2°42	2°30	2°18	25°43
S 26	22 18 3	3° 4'03	27°10	18°46	11°51	2°33	12°49	6°49	18°29	27°30	26°19	2°D42	2°27	2°25	25°48
M 27	22 21 59	4° 1'54	10 ¹³ 13	20°33	13° 6	3°11	12°46	6°54	18°26	27°33	26°19	2°42	2°23	2°32	25°54
T 28	22 25 56	4°59'47	23° 3	22°24	14°20	3°50	12°44	7° 0	18°24	27°35	26°18	2°42	2°20	2°39	25°59
W 29	22 29 52	5°57'41	5 ³⁹ 39	24°16	15°34	4°28	12°42	7° 5	18°22	27°37	26°17	2°R42	2°17	2°45	26° 5
T 30	22 33 49	6°55'36	18° 3	26°11	16°48	5° 7	12°40	7°10	18°20	27°39	26°17	2°42	2°14	2°52	26°11
F 31	22 37 45	7 ⁵³ 53	0°Y16	28°L 6	18°3	5°L46	12°R39	7°15	18°R17	27°L41	26°Y16	2°41	2°11	2°59	26°516

Delta T = 199.66 sec.

created from Swiss Ephemeris, Copyright Astrodiens AG [11.2.2014]

SWISS EPHEMERIS for the year 2091

SEPTEMBER 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	22 41 42	8♂51'33	12♂19	0♂ 3	19♂17	6♂25	12♂37	7♂20	18♂15	27♂44	26♂15	2♂41	2♂ 8	3♂ 5	26♂21
S 2	22 45 38	9°49'33	24°15	2° 0	20°31	7° 4	12♂36	7°25	18♂12	27°46	26♂15	2♂40	2° 4	3°12	26°27
M 3	22 49 35	10°47'36	6♂ 7	3°57	21°45	7°43	12°35	7°30	18°10	27°48	26°14	2°39	2° 1	3°19	26°32
T 4	22 53 31	11°45'40	17°59	5°55	23° 0	8°22	12°34	7°35	18° 8	27°50	26°13	2°38	1°58	3°26	26°37
W 5	22 57 28	12°43'46	29°54	7°52	24°14	9° 2	12°33	7°40	18° 5	27°52	26°12	2°37	1°55	3°32	26°43
T 6	23 1 25	13°41'55	11♂56	9°49	25°28	9°41	12°32	7°44	18° 3	27°54	26°12	2°D37	1°52	3°39	26°48
F 7	23 5 21	14°40'05	24°11	11°46	26°43	10°21	12°32	7°49	18° 1	27°57	26°11	2°37	1°48	3°46	26°53
S 8	23 9 18	15°38'17	6♂42	13°42	27°57	11° 0	12°D32	7°53	17°58	27°59	26°10	2°37	1°45	3°52	26°58
S 9	23 13 14	16°36'32	19°34	15°37	29°11	11°40	12°32	7°58	17°56	28° 1	26° 9	2°39	1°42	3°59	27° 3
M10	23 17 11	17°34'48	2♂49	17°31	0♂25	12°20	12°32	8° 2	17°53	28° 3	26° 8	2°40	1°39	4° 6	27° 8
T11	23 21 7	18°33'06	16°30	19°24	1°40	13° 0	12°33	8° 6	17°51	28° 5	26° 7	2°41	1°36	4°12	27°13
W12	23 25 4	19°31'26	0♂35	21°16	2°54	13°40	12°33	8°11	17°49	28° 7	26° 7	2°R41	1°33	4°19	27°18
T13	23 29 0	20°29'48	15° 2	23° 8	4° 8	14°20	12°34	8°15	17°46	28° 9	26° 6	2°41	1°29	4°26	27°23
F14	23 32 57	21°28'12	29°46	24°58	5°23	15° 0	12°35	8°19	17°44	28°11	26° 5	2°40	1°26	4°33	27°28
S15	23 36 54	22°26'38	14♂40	26°47	6°37	15°40	12°36	8°22	17°41	28°13	26° 4	2°38	1°23	4°39	27°32
S16	23 40 50	23°25'05	29°35	28°35	7°51	16°21	12°38	8°26	17°39	28°16	26° 3	2°35	1°20	4°46	27°37
M17	23 44 47	24°23'34	14♂24	0♂22	9° 6	17° 1	12°39	8°30	17°37	28°18	26° 2	2°32	1°17	4°53	27°41
T18	23 48 43	25°22'05	29° 0	2° 8	10°20	17°42	12°41	8°34	17°34	28°20	26° 1	2°30	1°14	4°59	27°46
W19	23 52 40	26°20'37	13♂17	3°53	11°34	18°23	12°43	8°37	17°32	28°22	26° 0	2°28	1°10	5° 6	27°50
T20	23 56 36	27°19'11	27°14	5°36	12°48	19° 3	12°45	8°40	17°30	28°24	25°59	2°D28	1° 7	5°13	27°55
F21	0 0 33	28°17'47	10♂50	7°19	14° 3	19°44	12°47	8°44	17°27	28°26	25°58	2°28	1° 4	5°20	27°59
S22	0 4 29	29°16'24	24° 7	9° 1	15°17	20°25	12°50	8°47	17°25	28°28	25°57	2°29	1° 1	5°26	28° 3
S23	0 8 26	0♂15'03	7♂ 5	10°42	16°31	21° 6	12°52	8°50	17°23	28°30	25°56	2°31	0°58	5°33	28° 7
M24	0 12 23	1°13'44	19°48	12°21	17°46	21°47	12°55	8°53	17°20	28°31	25°55	2°32	0°54	5°40	28°12
T25	0 16 19	2°12'26	2♂19	14° 0	19° 0	22°29	12°58	8°56	17°18	28°33	25°54	2°R33	0°51	5°46	28°16
W26	0 20 16	3°11'11	14°38	15°38	20°14	23°10	13° 2	8°59	17°16	28°35	25°53	2°32	0°48	5°53	28°20
T27	0 24 12	4° 9'57	26°48	17°14	21°29	23°51	13° 5	9° 2	17°13	28°37	25°52	2°30	0°45	6° 0	28°23
F28	0 28 9	5° 8'45	8♂52	18°50	22°43	24°33	13° 9	9° 4	17°11	28°39	25°51	2°26	0°42	6° 7	28°27
S29	0 32 5	6° 7'35	20°49	20°25	23°57	25°14	13°12	9° 7	17° 9	28°41	25°50	2°21	0°39	6°13	28°31
S30	0 36 2	7♂ 6'27	2♂42	21♂59	25♂11	25♂56	13♂16	9♂ 9	17♂ 7	28♂43	25♂49	2♂15	0♂35	6♂20	28♂35

Delta T = 199.83 sec.

OCTOBER 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	0 39 58	8♂ 5'21	14♂34	23♂33	26♂26	26♂38	13♂21	9♂11	17°R 4	28♂45	25°R48	2°R 8	0♂32	6♂27	28♂38
T 2	0 43 55	9° 4'17	26°25	25° 5	27°40	27°20	13°25	9°14	17°R 2	28°46	25°Y47	2♂ 2	0°29	6°33	28°42
W 3	0 47 51	10° 3'16	8♂20	26°36	28°54	28° 2	13°29	9°16	17° 0	28°48	25°46	1°56	0°26	6°40	28°45
T 4	0 51 48	11° 2'17	20°21	28° 7	0♂ 8	28°44	13°34	9°18	16°58	28°50	25°44	1°53	0°23	6°47	28°49
F 5	0 55 45	12° 1'20	2♂33	29°37	1°23	29°26	13°39	9°20	16°56	28°52	25°43	1°50	0°19	6°53	28°52
S 6	0 59 41	13° 0'26	15° 0	1♂ 6	2°37	0♂ 8	13°44	9°21	16°54	28°53	25°42	1°D50	0°16	7° 0	28°55
S 7	1 3 38	13°59'34	27°46	2°34	3°51	0°50	13°49	9°23	16°52	28°55	25°41	1°51	0°13	7° 7	28°58
M 8	1 7 34	14°58'44	10♂55	4° 1	5° 5	1°32	13°54	9°25	16°50	28°57	25°40	1°52	0°10	7°14	29° 2
T 9	1 11 31	15°57'56	24°32	5°27	6°20	2°15	14° 0	9°26	16°48	28°58	25°39	1°53	0° 7	7°20	29° 5
W10	1 15 27	16°57'11	8♂36	6°52	7°34	2°57	14° 6	9°27	16°46	29° 0	25°38	1°R53	0° 4	7°27	29° 7
T11	1 19 24	17°56'28	23° 8	8°17	8°48	3°40	14°11	9°29	16°44	29° 2	25°37	1°51	0° 0	7°34	29°10
F12	1 23 20	18°55'47	8♂ 2	9°40	10° 3	4°23	14°17	9°30	16°42	29° 3	25°35	1°48	29♂57	7°40	29°13
S13	1 27 17	19°55'08	23°12	11° 3	11°17	5° 5	14°23	9°31	16°40	29° 5	25°34	1°42	29°54	7°47	29°16
S14	1 31 13	20°54'32	8♂27	12°24	12°31	5°48	14°30	9°32	16°38	29° 6	25°33	1°34	29°51	7°54	29°18
M15	1 35 10	21°53'57	23°38	13°45	13°45	6°31	14°36	9°33	16°36	29° 8	25°32	1°27	29°48	8° 1	29°21
T16	1 39 7	22°53'24	8♂32	15° 4	15° 0	7°14	14°43	9°33	16°34	29° 9	25°31	1°19	29°45	8° 7	29°23
W17	1 43 3	23°52'53	23° 5	16°22	16°14	7°57	14°50	9°34	16°33	29°11	25°30	1°14	29°41	8°14	29°25
T18	1 47 0	24°52'24	7♂10	17°39	17°28	8°40	14°57	9°34	16°31	29°12	25°29	1°10	29°38	8°21	29°28
F19	1 50 56	25°51'56	20°49	18°54	18°42	9°24	15° 4	9°35	16°29	29°14	25°27	1°D 9	29°35	8°27	29°30
S20	1 54 53	26°51'30	4♂ 1	20° 8	19°56	10° 7	15°11	9°35	16°28	29°15	25°26	1° 9	29°32	8°34	29°32
S21	1 58 49	27°51'06	16°52	21°20	21°11	10°50	15°18	9°35	16°26	29°16	25°25	1°10	29°29	8°41	29°34
M22	2 2 46	28°50'44	29°23	22°31	22°25	11°34	15°26	9°R35	16°24	29°18	25°24	1°R10	29°25	8°48	29°36
T23	2 6 42	29°50'23	11♂41	23°40	23°39	12°17	15°34	9°35	16°23	29°19	25°23	1°10	29°22	8°54	29°37
W24	2 10 39	0♂50'04	23°48	24°47	24°53	13° 1	15°41	9°35	16°21	29°20	25°22	1° 7	29°19	9° 1	29°39
T25	2 14 36	1°49'47	5♂48	25°51	26° 7	13°44	15°49	9°34	16°20	29°22	25°21	1° 2	29°16	9° 8	29°41
F26	2 18 32	2°49'32	17°44	26°53	27°21	14°28	15°57	9°34	16°18	29°23	25°19	0°54	29°13	9°14	29°42
S27	2 22 29	3°49'18	29°37	27°52	28°36	15°12	16° 6	9°33	16°17	29°24	25°18	0°43	29°10	9°21	29°44
S28	2 26 25	4°49'07	11♂29	28°48	29°50	15°56	16°14	9°33	16°16	29°25	25°17	0°31	29° 6	9°28	29°45
M29	2 30 22	5°48'58	23°21	29°41	1♂ 4	16°40	16°23	9°32	16°14	29°26	25°16	0°19	29° 3	9°35	29°46
T30	2 34 18	6°48'50	5♂16	0♂30	2°18	17°24	16°31	9°31	16°13	29°27	25°15	0° 6	29° 0	9°41	29°47
W31	2 38 15	7♂48'45	17♂14	1♂15	3♂32	18♂ 8	16♂40	9♂30	16♂12	29♂28	25♂14	29♂55	28♂57	9♂48	29♂48

Delta T = 200.00 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

SWISS EPHEMERIS for the year 2091

NOVEMBER 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	2 42 11	8♂48'42	29♂18	1♂55	4♂46	18♂52	16♂49	9°R29	16°R11	29♂29	25°R13	29°R46	28♂54	9♂55	29♂49
F 2	2 46 8	9°48'41	11♂31	2°30	6° 0	19°36	16°58	9♂28	16♂10	29°30	25°Y12	29♂40	28°50	10° 1	29°50
S 3	2 50 4	10°48'42	23°56	3° 0	7°14	20°21	17° 7	9°27	16° 9	29°31	25°11	29°36	28°47	10° 8	29°51
S 4	2 54 1	11°48'45	6♂38	3°23	8°29	21° 5	17°16	9°25	16° 7	29°32	25° 9	29°35	28°44	10°15	29°52
M 5	2 57 58	12°48'51	19°40	3°39	9°43	21°49	17°26	9°24	16° 6	29°33	25° 8	29°D35	28°41	10°22	29°52
T 6	3 1 54	13°48'58	3♂6	3°48	10°57	22°34	17°35	9°22	16° 6	29°34	25° 7	29°R35	28°38	10°28	29°53
W 7	3 5 51	14°49'08	17° 0	3°R48	12°11	23°18	17°45	9°20	16° 5	29°35	25° 6	29°34	28°35	10°35	29°53
T 8	3 9 47	15°49'19	1♂22	3°40	13°25	24° 3	17°55	9°18	16° 4	29°36	25° 5	29°31	28°31	10°42	29°53
F 9	3 13 44	16°49'33	16°10	3°22	14°39	24°48	18° 5	9°16	16° 3	29°37	25° 4	29°25	28°28	10°48	29°53
S 10	3 17 40	17°49'48	1♂18	2°55	15°53	25°33	18°15	9°14	16° 2	29°37	25° 3	29°16	28°25	10°55	29°R54
S 11	3 21 37	18°50'06	16°38	2°17	17° 7	26°17	18°25	9°12	16° 1	29°38	25° 2	29° 6	28°22	11° 2	29°54
M12	3 25 33	19°50'25	1♂57	1°30	18°21	27° 2	18°35	9°10	16° 1	29°39	25° 1	28°54	28°19	11° 9	29°53
T 13	3 29 30	20°50'46	17° 4	0°33	19°35	27°47	18°45	9° 7	16° 0	29°39	25° 0	28°43	28°16	11°15	29°53
W14	3 33 27	21°51'09	1♂49	29♂28	20°49	28°32	18°56	9° 5	16° 0	29°40	24°59	28°34	28°12	11°22	29°53
T 15	3 37 23	22°51'33	16° 7	28°16	22° 3	29°17	19° 6	9° 2	15°59	29°41	24°58	28°28	28° 9	11°29	29°52
F 16	3 41 20	23°51'58	29°54	26°58	23°17	0♂3	19°17	9° 0	15°59	29°41	24°57	28°24	28° 6	11°35	29°52
S 17	3 45 16	24°52'25	13♂12	25°38	24°31	0°48	19°28	8°57	15°58	29°42	24°56	28°22	28° 3	11°42	29°51
S 18	3 49 13	25°52'53	26° 4	24°17	25°45	1°33	19°39	8°54	15°58	29°42	24°55	28°22	28° 0	11°49	29°51
M19	3 53 9	26°53'22	8♂34	22°59	26°59	2°18	19°49	8°51	15°57	29°43	24°54	28°22	27°56	11°56	29°50
T 20	3 57 6	27°53'53	20°47	21°45	28°13	3° 4	20° 1	8°48	15°57	29°43	24°53	28°21	27°53	12° 2	29°49
W21	4 1 2	28°54'25	2♂49	20°39	29°27	3°49	20°12	8°45	15°57	29°43	24°52	28°17	27°50	12° 9	29°48
T 22	4 4 59	29°54'58	14°44	19°42	0♂41	4°35	20°23	8°42	15°57	29°44	24°51	28°11	27°47	12°16	29°47
F 23	4 8 56	0♂55'32	26°35	18°55	1°54	5°20	20°34	8°38	15°57	29°44	24°50	28° 2	27°44	12°22	29°46
S 24	4 12 52	1°56'08	8♂26	18°20	3° 8	6° 6	20°46	8°35	15°57	29°44	24°49	27°50	27°41	12°29	29°45
S 25	4 16 49	2°56'45	20°19	17°56	4°22	6°51	20°57	8°32	15°D56	29°45	24°49	27°36	27°37	12°36	29°43
M26	4 20 45	3°57'23	2♂16	17°44	5°36	7°37	21° 9	8°28	15°57	29°45	24°48	27°21	27°34	12°43	29°42
T 27	4 24 42	4°58'03	14°17	17°D43	6°50	8°23	21°20	8°24	15°57	29°45	24°47	27° 6	27°31	12°49	29°40
W28	4 28 38	5°58'44	26°23	17°53	8° 3	9° 9	21°32	8°21	15°57	29°45	24°46	26°53	27°28	12°56	29°39
T 29	4 32 35	6°59'27	8♂37	18°13	9°17	9°55	21°44	8°17	15°57	29°45	24°45	26°42	27°25	13° 3	29°37
F 30	4 36 31	8♂ 0'11	20♂58	18♂41	10♂31	10♂40	21♂56	8♂13	15♂57	29♂45	24♂44	26♂43	27♂22	13♂10	29♂35

Delta T = 200.17 sec.

DECEMBER 2091

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 40 28	9♂ 0'57	3♂30	19♂17	11♂44	11♂26	22♂8	8°R 9	15♂57	29♂45	24°R44	26°R30	27♂18	13♂16	29°R33
S 2	4 44 25	10° 1'44	16°15	20° 1	12°58	12°12	22°20	8° 5	15°58	29°R45	24°Y43	26♂28	27°15	13°23	29♂31
M 3	4 48 21	11° 2'32	29°16	20°51	14°12	12°59	22°32	8° 1	15°58	29°45	24°42	26°D28	27°12	13°30	29°29
T 4	4 52 18	12° 3'22	12♂37	21°47	15°25	13°45	22°45	7°57	15°59	29°45	24°41	26°R28	27° 9	13°36	29°27
W 5	4 56 14	13° 4'14	26°20	22°47	16°39	14°31	22°57	7°53	15°59	29°45	24°41	26°27	27° 6	13°43	29°25
T 6	5 0 11	14° 5'06	10♂27	23°52	17°53	15°17	23° 9	7°48	16° 0	29°45	24°40	26°25	27° 2	13°50	29°23
F 7	5 4 7	15° 6'01	24°58	25° 0	19° 6	16° 3	23°22	7°44	16° 0	29°45	24°39	26°20	26°59	13°57	29°20
S 8	5 8 4	16° 6'56	9♂48	26°12	20°20	16°50	23°34	7°39	16° 1	29°45	24°39	26°12	26°56	14° 3	29°18
S 9	5 12 0	17° 7'53	24°52	27°26	21°33	17°36	23°47	7°35	16° 2	29°45	24°38	26° 2	26°53	14°10	29°15
M10	5 15 57	18° 8'51	10♂1	28°43	22°47	18°22	24° 0	7°31	16° 2	29°44	24°37	25°51	26°50	14°17	29°13
T 11	5 19 54	19° 9'50	25° 3	0♂1	24° 0	19° 9	24°12	7°26	16° 3	29°44	24°37	25°41	26°47	14°23	29°10
W12	5 23 50	20°10'49	9♂48	1°22	25°13	19°55	24°25	7°21	16° 4	29°44	24°36	25°32	26°43	14°30	29° 7
T 13	5 27 47	21°11'50	24°10	2°44	26°27	20°42	24°38	7°17	16° 5	29°43	24°36	25°26	26°40	14°37	29° 4
F 14	5 31 43	22°12'51	8♂5	4° 7	27°40	21°28	24°51	7°12	16° 6	29°43	24°35	25°22	26°37	14°44	29° 1
S 15	5 35 40	23°13'53	21°30	5°31	28°53	22°15	25° 4	7° 7	16° 7	29°42	24°35	25°D21	26°34	14°50	28°58
S 16	5 39 36	24°14'55	4♂28	6°57	0♂7	23° 1	25°17	7° 3	16° 8	29°42	24°34	25°21	26°31	14°57	28°55
M17	5 43 33	25°15'58	17° 3	8°23	1°20	23°48	25°30	6°58	16° 9	29°42	24°34	25°22	26°28	15° 4	28°52
T 18	5 47 30	26°17'01	29°19	9°50	2°33	24°35	25°43	6°53	16°10	29°41	24°33	25°R22	26°24	15°11	28°49
W19	5 51 26	27°18'05	11♂22	11°18	3°46	25°22	25°56	6°48	16°11	29°40	24°33	25°21	26°21	15°17	28°45
T 20	5 55 23	28°19'09	23°16	12°46	4°59	26° 8	26°10	6°43	16°12	29°40	24°32	25°17	26°18	15°24	28°42
F 21	5 59 19	29°20'13	5♂7	14°15	6°12	26°55	26°23	6°38	16°14	29°39	24°32	25°11	26°15	15°31	28°39
S 22	6 3 16	0♂21'17	16°59	15°44	7°25	27°42	26°36	6°33	16°15	29°39	24°32	25° 3	26°12	15°37	28°35
S 23	6 7 12	1°22'22	28°54	17°14	8°38	28°29	26°50	6°29	16°16	29°38	24°31	24°53	26° 8	15°44	28°32
M24	6 11 9	2°23'28	10♂55	18°44	9°51	29°16	27° 3	6°24	16°18	29°37	24°31	24°43	26° 5	15°51	28°28
T 25	6 15 5	3°24'34	23° 5	20°14	11° 4	0♂3	27°17	6°19	16°19	29°36	24°30	24°32	26° 2	15°58	28°25
W26	6 19 2	4°25'40	5♂23	21°45	12°17	0°50	27°30	6°14	16°21	29°36	24°30	24°23	25°59	16° 4	28°21
T 27	6 22 59	5°26'46	17°51	23°16	13°29	1°37	27°44	6° 9	16°23	29°35	24°30	24°16	25°56	16°11	28°17
F 28	6 26 55	6°27'53	0♂29	24°47	14°42	2°24	27°57	6° 4	16°24	29°34	24°30	24°10	25°53	16°18	28°13
S 29	6 30 52	7°29'00	13°18	26°19	15°54	3°11	28°11	5°59	16°26	29°33	24°29	24° 8	25°49	16°24	28° 9
S 30	6 34 48	8°30'08	26°18	27°51	17° 7	3°58	28°25	5°54	16°28	29°32	24°29	24°D 7	25°46	16°31	28° 6
M31	6 38 45	9♂31'16	9♂31	29♂23	18♂19	4♂45	28♂39	5♂49	16♂29	29♂31	24♂29	24♂8	25♂43	16♂38	28♂2

Delta T = 200.33 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]