

SWISS EPHEMERIS for the year 1815  
heliocentric

JANUARY 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
S 1	6 39 5	9 <sup>56</sup> 46'14	9 <sup>56</sup> 54	12 <sup>36</sup> 36	12 <sup>38</sup> 56	4 <sup>11</sup> 0	28 <sup>17</sup> 54	2 <sup>22</sup> 27	3 <sup>27</sup> 9	17 <sup>27</sup> 36	21 <sup>11</sup> 7	8 <sup>11</sup> 47
M 2	6 43 2	10°47'24	10°56	15°32	14°31	4°29	28°58	2°28	3°10	17°36	21°7	8°48
T 3	6 46 59	11°48'33	11°57	18°26	16°6	4°58	29°3	2°30	3°11	17°37	21°7	8°49
W 4	6 50 55	12°49'43	12°58	21°18	17°40	5°27	29°7	2°32	3°11	17°37	21°7	8°50
T 5	6 54 52	13°50'53	13°59	24°9	19°15	5°56	29°12	2°34	3°12	17°37	21°7	8°50
F 6	6 58 48	14°52'03	14°59	26°57	20°50	6°26	29°16	2°36	3°13	17°38	21°8	8°51
S 7	7 2 45	15°53'13	15°59	29°45	22°25	6°55	29°21	2°38	3°14	17°38	21°8	8°52
S 8	7 6 41	16°54'23	16°59	2 <sup>27</sup> 32	24°0	7°24	29°25	2°39	3°14	17°38	21°8	8°52
M 9	7 10 38	17°55'33	17°58	5°17	25°35	7°54	29°30	2°41	3°15	17°39	21°8	8°53
T 10	7 14 34	18°56'43	18°58	8°2	27°9	8°23	29°34	2°43	3°16	17°39	21°8	8°54
W 11	7 18 31	19°57'52	19°57	10°47	28°44	8°52	29°39	2°45	3°17	17°39	21°8	8°54
T 12	7 22 28	20°59'01	20°57	13°32	0 <sup>28</sup> 19	9°22	29°43	2°47	3°17	17°40	21°9	8°55
F 13	7 26 24	22°0'10	21°56	16°17	1°54	9°52	29°48	2°49	3°18	17°40	21°9	8°56
S 14	7 30 21	23°1'18	22°56	19°2	3°29	10°21	29°53	2°50	3°19	17°40	21°9	8°56
S 15	7 34 17	24°2'25	23°55	21°47	5°4	10°51	29°57	2°52	3°19	17°41	21°9	8°57
M 16	7 38 14	25°3'31	24°56	24°33	6°38	11°20	0 <sup>2</sup> 2	2°54	3°20	17°41	21°9	8°58
T 17	7 42 10	26°4'37	25°56	27°20	8°13	11°50	0°6	2°56	3°21	17°42	21°10	8°58
W 18	7 46 7	27°5'42	26°57	0 <sup>28</sup> 8	9°48	12°20	0°11	2°58	3°22	17°42	21°10	8°59
T 19	7 50 3	28°6'46	27°58	2°57	11°23	12°50	0°15	3°0	3°22	17°42	21°10	9°0
F 20	7 54 0	29°7'48	28°59	5°48	12°58	13°20	0°20	3°1	3°23	17°43	21°10	9°0
S 21	7 57 57	0 <sup>28</sup> 8'50	0 <sup>28</sup> 1	8°40	14°33	13°50	0°24	3°3	3°24	17°43	21°10	9°1
S 22	8 1 53	1°9'51	1°4	11°34	16°8	14°20	0°29	3°5	3°25	17°43	21°11	9°2
M 23	8 5 50	2°10'51	2°6	14°31	17°43	14°50	0°33	3°7	3°25	17°44	21°11	9°2
T 24	8 9 46	3°11'50	3°9	17°30	19°18	15°20	0°38	3°9	3°26	17°44	21°11	9°3
W 25	8 13 43	4°12'48	4°12	20°32	20°53	15°50	0°43	3°11	3°27	17°44	21°11	9°4
T 26	8 17 39	5°13'46	5°15	23°36	22°28	16°20	0°47	3°12	3°27	17°45	21°11	9°4
F 27	8 21 36	6°14'42	6°18	26°44	24°2	16°50	0°52	3°14	3°28	17°45	21°12	9°5
S 28	8 25 32	7°15'37	7°21	29°55	25°37	17°20	0°56	3°16	3°29	17°45	21°12	9°6
S 29	8 29 29	8°16'31	8°23	3 <sup>28</sup> 10	27°12	17°51	1°1	3°18	3°30	17°46	21°12	9°6
M 30	8 33 26	9°17'25	9°25	6°29	28°48	18°21	1°5	3°20	3°30	17°46	21°12	9°7
T 31	8 37 22	10 <sup>28</sup> 18'18	10 <sup>28</sup> 27	9 <sup>28</sup> 53	0 <sup>28</sup> 23	18 <sup>11</sup> 52	1 <sup>2</sup> 10	3 <sup>28</sup> 22	3 <sup>27</sup> 31	17 <sup>27</sup> 47	21 <sup>11</sup> 12	9 <sup>28</sup> 8

Delta T = 12.14 sec.

FEBRUARY 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
W 1	8 41 19	11 <sup>28</sup> 19'10	11 <sup>28</sup> 28	13 <sup>28</sup> 21	1 <sup>11</sup> 58	19 <sup>11</sup> 22	1 <sup>2</sup> 14	3 <sup>28</sup> 23	3 <sup>27</sup> 32	17 <sup>27</sup> 47	21 <sup>11</sup> 13	9 <sup>28</sup> 8
T 2	8 45 15	12°20'01	12°29	16°54	3°33	19°53	1°19	3°25	3°33	17°47	21°13	9°9
F 3	8 49 12	13°20'52	13°30	20°33	5°8	20°23	1°23	3°27	3°33	17°48	21°13	9°10
S 4	8 53 8	14°21'41	14°30	24°17	6°43	20°54	1°28	3°29	3°34	17°48	21°13	9°10
S 5	8 57 5	15°22'30	15°29	28°8	8°18	21°24	1°32	3°31	3°35	17°48	21°13	9°11
M 6	9 1 1	16°23'17	16°29	2 <sup>11</sup> 5	9°53	21°55	1°37	3°33	3°35	17°49	21°13	9°12
T 7	9 4 58	17°24'04	17°28	6°9	11°28	22°26	1°42	3°34	3°36	17°49	21°14	9°12
W 8	9 8 55	18°24'49	18°27	10°21	13°4	22°57	1°46	3°36	3°37	17°49	21°14	9°13
T 9	9 12 51	19°25'33	19°26	14°40	14°39	23°28	1°51	3°38	3°38	17°50	21°14	9°14
F 10	9 16 48	20°26'16	20°25	19°7	16°14	23°58	1°55	3°40	3°38	17°50	21°14	9°14
S 11	9 20 44	21°26'57	21°24	23°42	17°49	24°29	2°0	3°42	3°39	17°50	21°14	9°15
S 12	9 24 41	22°27'36	22°23	28°26	19°25	25°0	2°4	3°44	3°40	17°51	21°15	9°16
M 13	9 28 37	23°28'14	23°22	3 <sup>11</sup> 18	21°0	25°32	2°9	3°45	3°40	17°51	21°15	9°16
T 14	9 32 34	24°28'51	24°22	8°20	22°35	26°3	2°13	3°47	3°41	17°52	21°15	9°17
W 15	9 36 30	25°29'26	25°21	13°31	24°11	26°34	2°18	3°49	3°42	17°52	21°15	9°18
T 16	9 40 27	26°29'59	26°21	18°51	25°46	27°5	2°22	3°51	3°43	17°52	21°15	9°18
F 17	9 44 24	27°30'30	27°22	24°20	27°21	27°36	2°27	3°53	3°43	17°53	21°16	9°19
S 18	9 48 20	28°30'59	28°22	29°57	28°57	28°8	2°31	3°55	3°44	17°53	21°16	9°20
S 19	9 52 17	29°31'27	29°24	5 <sup>28</sup> 43	0 <sup>28</sup> 32	28°39	2°36	3°56	3°45	17°53	21°16	9°20
M 20	9 56 13	0 <sup>28</sup> 31'52	0 <sup>28</sup> 25	11°37	2°8	29°11	2°41	3°58	3°46	17°54	21°16	9°21
T 21	10 0 10	1°32'16	1°27	17°38	3°43	29°42	2°45	4°0	3°46	17°54	21°16	9°22
W 22	10 4 6	2°32'38	2°29	23°45	5°19	0 <sup>28</sup> 14	2°50	4°2	3°47	17°54	21°17	9°22
T 23	10 8 3	3°32'58	3°31	29°57	6°54	0°45	2°54	4°4	3°48	17°55	21°17	9°23
F 24	10 11 59	4°33'16	4°34	6 <sup>11</sup> 13	8°30	1°17	2°59	4°6	3°48	17°55	21°17	9°24
S 25	10 15 56	5°33'32	5°36	12°31	10°6	1°49	3°3	4°7	3°49	17°55	21°17	9°24
S 26	10 19 53	6°33'47	6°38	18°50	11°41	2°20	3°8	4°9	3°50	17°56	21°17	9°25
M 27	10 23 49	7°34'00	7°40	25°9	13°17	2°52	3°12	4°11	3°51	17°56	21°17	9°26
T 28	10 27 46	8 <sup>11</sup> 34'11	8 <sup>11</sup> 41	1 <sup>28</sup> 25	14 <sup>11</sup> 52	3 <sup>27</sup> 24	3 <sup>2</sup> 17	4 <sup>28</sup> 13	3 <sup>27</sup> 51	17 <sup>27</sup> 57	21 <sup>11</sup> 18	9 <sup>28</sup> 26

Delta T = 12.15 sec.

created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1815  
heliocentric

MARCH 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
W 1	10 31 42	9 <sup>h</sup> 34'21"	9 <sup>h</sup> 43'	7 <sup>h</sup> 38'	16 <sup>h</sup> 28'	3 <sup>h</sup> 56'	3 <sup>h</sup> 21'	4 <sup>h</sup> 15'	3 <sup>h</sup> 52'	17 <sup>h</sup> 57'	21 <sup>h</sup> 18'	9 <sup>h</sup> 27'
T 2	10 35 39	10°34'30"	10°43'	13°47'	18° 4'	4°28'	3°26'	4°17'	3°53'	17°57'	21°18'	9°28'
F 3	10 39 35	11°34'37"	11°44'	19°49'	19°40'	5° 0'	3°30'	4°18'	3°54'	17°58'	21°18'	9°28'
S 4	10 43 32	12°34'42"	12°44'	25°44'	21°15'	5°32'	3°35'	4°20'	3°54'	17°58'	21°18'	9°29'
S 5	10 47 28	13°34'46"	13°43'	1 <sup>h</sup> 31'	22°51'	6° 4'	3°39'	4°22'	3°55'	17°58'	21°19'	9°30'
M 6	10 51 25	14°34'48"	14°43'	7° 9'	24°27'	6°37'	3°44'	4°24'	3°56'	17°59'	21°19'	9°30'
T 7	10 55 22	15°34'49"	15°42'	12°38'	26° 3'	7° 9'	3°49'	4°26'	3°56'	17°59'	21°19'	9°31'
W 8	10 59 18	16°34'48"	16°40'	17°58'	27°39'	7°41'	3°53'	4°28'	3°57'	17°59'	21°19'	9°32'
T 9	11 3 15	17°34'45"	17°39'	23° 8'	29°15'	8°14'	3°58'	4°29'	3°58'	18° 0'	21°19'	9°32'
F 10	11 7 11	18°34'40"	18°37'	28° 8'	0 <sup>h</sup> 51'	8°46'	4° 2'	4°31'	3°59'	18° 0'	21°20'	9°33'
S 11	11 11 8	19°34'33"	19°35'	2 <sup>h</sup> 59'	2°27'	9°19'	4° 7'	4°33'	3°59'	18° 0'	21°20'	9°34'
S 12	11 15 4	20°34'24"	20°33'	7°40'	4° 3'	9°51'	4°11'	4°35'	4° 0'	18° 1'	21°20'	9°34'
M13	11 19 1	21°34'13"	21°31'	12°13'	5°39'	10°24'	4°16'	4°37'	4° 1'	18° 1'	21°20'	9°35'
T 14	11 22 57	22°34'01"	22°29'	16°36'	7°15'	10°56'	4°20'	4°39'	4° 2'	18° 2'	21°20'	9°36'
W15	11 26 54	23°33'46"	23°27'	20°52'	8°51'	11°29'	4°25'	4°40'	4° 2'	18° 2'	21°21'	9°36'
T 16	11 30 50	24°33'29"	24°26'	24°59'	10°27'	12° 2'	4°29'	4°42'	4° 3'	18° 2'	21°21'	9°37'
F 17	11 34 47	25°33'09"	25°25'	28°59'	12° 3'	12°35'	4°34'	4°44'	4° 4'	18° 3'	21°21'	9°38'
S 18	11 38 44	26°32'48"	26°24'	2 <sup>h</sup> 52'	13°39'	13° 8'	4°38'	4°46'	4° 4'	18° 3'	21°21'	9°38'
S 19	11 42 40	27°32'24"	27°24'	6°38'	15°15'	13°41'	4°43'	4°48'	4° 5'	18° 3'	21°21'	9°39'
M20	11 46 37	28°31'58"	28°24'	10°18'	16°51'	14°14'	4°48'	4°50'	4° 6'	18° 4'	21°21'	9°40'
T 21	11 50 33	29°31'29"	29°24'	13°53'	18°28'	14°47'	4°52'	4°52'	4° 7'	18° 4'	21°22'	9°40'
W22	11 54 30	0 <sup>h</sup> 30'58"	0 <sup>h</sup> 25'	17°22'	20° 4'	15°20'	4°57'	4°53'	4° 7'	18° 4'	21°22'	9°41'
T 23	11 58 26	1°30'25"	1°26'	20°45'	21°40'	15°53'	5° 1'	4°55'	4° 8'	18° 5'	21°22'	9°42'
F 24	12 2 23	2°29'50"	2°27'	24° 5'	23°17'	16°26'	5° 6'	4°57'	4° 9'	18° 5'	21°22'	9°42'
S 25	12 6 19	3°29'12"	3°29'	27°20'	24°53'	17° 0'	5°10'	4°59'	4° 9'	18° 5'	21°22'	9°43'
S 26	12 10 16	4°28'32"	4°30'	0 <sup>h</sup> 31'	26°29'	17°33'	5°15'	5° 1'	4°10'	18° 6'	21°23'	9°44'
M27	12 14 13	5°27'50"	5°31'	3°38'	28° 6'	18° 6'	5°19'	5° 3'	4°11'	18° 6'	21°23'	9°44'
T 28	12 18 9	6°27'07"	6°32'	6°42'	29°42'	18°40'	5°24'	5° 4'	4°12'	18° 6'	21°23'	9°45'
W29	12 22 6	7°26'21"	7°33'	9°44'	1 <sup>h</sup> 19'	19°13'	5°28'	5° 6'	4°12'	18° 7'	21°23'	9°46'
T 30	12 26 2	8°25'34"	8°33'	12°42'	2°55'	19°47'	5°33'	5° 8'	4°13'	18° 7'	21°23'	9°46'
F 31	12 29 59	9°24'45"	9°33'	15 <sup>h</sup> 38'	4 <sup>h</sup> 32'	20 <sup>h</sup> 21'	5°37'	5°10'	4°14'	18° 8'	21 <sup>h</sup> 24'	9 <sup>h</sup> 47'

Delta T = 12.15 sec.

APRIL 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
S 1	12 33 55	10 <sup>h</sup> 23'54"	10 <sup>h</sup> 33'	18 <sup>h</sup> 32'	6 <sup>h</sup> 11'	8 20 <sup>h</sup> 54'	5 <sup>h</sup> 42'	5 <sup>h</sup> 12'	4 <sup>h</sup> 15'	18 <sup>h</sup> 8'	21 <sup>h</sup> 24'	9 <sup>h</sup> 48'
S 2	12 37 52	11°23'02"	11°32'	21°24'	7°45'	21°28'	5°46'	5°14'	4°15'	18° 8'	21°24'	9°48'
M 3	12 41 48	12°22'08"	12°31'	24°14'	9°22'	22° 2'	5°51'	5°15'	4°16'	18° 9'	21°24'	9°49'
T 4	12 45 45	13°21'11"	13°30'	27° 3'	10°58'	22°36'	5°56'	5°17'	4°17'	18° 9'	21°24'	9°50'
W 5	12 49 42	14°20'13"	14°28'	29°50'	12°35'	23°10'	6° 0'	5°19'	4°17'	18° 9'	21°25'	9°50'
T 6	12 53 38	15°19'14"	15°26'	2 <sup>h</sup> 37'	14°12'	23°44'	6° 5'	5°21'	4°18'	18°10'	21°25'	9°51'
F 7	12 57 35	16°18'12"	16°23'	5°23'	15°48'	24°18'	6° 9'	5°23'	4°19'	18°10'	21°25'	9°52'
S 8	13 1 31	17°17'08"	17°20'	8° 8'	17°25'	24°52'	6°14'	5°25'	4°20'	18°10'	21°25'	9°52'
S 9	13 5 28	18°16'03"	18°17'	10°53'	19° 2'	25°26'	6°18'	5°26'	4°20'	18°11'	21°25'	9°53'
M10	13 9 24	19°14'55"	19°14'	13°37'	20°39'	26° 0'	6°23'	5°28'	4°21'	18°11'	21°25'	9°54'
T 11	13 13 21	20°13'46"	20°11'	16°22'	22°16'	26°35'	6°27'	5°30'	4°22'	18°11'	21°26'	9°54'
W12	13 17 17	21°12'34"	21° 9'	19° 7'	23°53'	27° 9'	6°32'	5°32'	4°22'	18°12'	21°26'	9°55'
T 13	13 21 14	22°11'21"	22° 6'	21°52'	25°30'	27°43'	6°36'	5°34'	4°23'	18°12'	21°26'	9°56'
F 14	13 25 11	23°10'05"	23° 3'	24°38'	27° 6'	28°18'	6°41'	5°36'	4°24'	18°13'	21°26'	9°56'
S 15	13 29 7	24° 8'47"	24° 1'	27°25'	28°43'	28°52'	6°45'	5°37'	4°25'	18°13'	21°26'	9°57'
S 16	13 33 4	25° 7'27"	24°59'	0 <sup>h</sup> 31'	0 <sup>h</sup> 20'	29°27'	6°50'	5°39'	4°25'	18°13'	21°27'	9°58'
M17	13 37 0	26° 6'04"	25°58'	3° 2'	1°58'	0 <sup>h</sup> 31'	6°54'	5°41'	4°26'	18°14'	21°27'	9°58'
T 18	13 40 57	27° 4'40"	26°57'	5°53'	3°35'	0°36'	6°59'	5°43'	4°27'	18°14'	21°27'	9°59'
W19	13 44 53	28° 3'13"	27°56'	8°46'	5°12'	1°11'	7° 4'	5°45'	4°28'	18°14'	21°27'	10° 0'
T 20	13 48 50	29° 1'44"	28°55'	11°40'	6°49'	1°46'	7° 8'	5°47'	4°28'	18°15'	21°27'	10° 0'
F 21	13 52 46	0 <sup>h</sup> 11'12"	29°55'	14°37'	8°26'	2°20'	7°13'	5°48'	4°29'	18°15'	21°28'	10° 1'
S 22	13 56 43	0°58'39"	0 <sup>h</sup> 11'55'	17°36'	10° 3'	2°55'	7°17'	5°50'	4°30'	18°15'	21°28'	10° 2'
S 23	14 0 40	1°57'03"	1°56'	20°37'	11°40'	3°30'	7°22'	5°52'	4°30'	18°16'	21°28'	10° 2'
M24	14 4 36	2°55'26"	2°56'	23°42'	13°18'	4° 5'	7°26'	5°54'	4°31'	18°16'	21°28'	10° 3'
T 25	14 8 33	3°53'47"	3°56'	26°50'	14°55'	4°40'	7°31'	5°56'	4°32'	18°16'	21°28'	10° 4'
W26	14 12 29	4°52'06"	4°56'	0 <sup>h</sup> 31'	16°32'	5°15'	7°35'	5°58'	4°33'	18°17'	21°29'	10° 4'
T 27	14 16 26	5°50'23"	5°56'	3°16'	18° 9'	5°51'	7°40'	6° 0'	4°33'	18°17'	21°29'	10° 5'
F 28	14 20 22	6°48'39"	6°56'	6°36'	19°47'	6°26'	7°44'	6° 1'	4°34'	18°18'	21°29'	10° 6'
S 29	14 24 19	7°46'54"	7°55'	9°59'	21°24'	7° 1'	7°49'	6° 3'	4°35'	18°18'	21°29'	10° 6'
S 30	14 28 15	8 <sup>h</sup> 45'06"	8 <sup>h</sup> 54'	13 <sup>h</sup> 28'	23 <sup>h</sup> 28'	1 7 <sup>h</sup> 36'	7 <sup>h</sup> 53'	6 <sup>h</sup> 5'	4 <sup>h</sup> 36'	18 <sup>h</sup> 18'	21 <sup>h</sup> 29'	10 <sup>h</sup> 7'

Delta T = 12.15 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1815  
heliocentric

MAY 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
M 1	14 32 12	9♁43'18	9♁52	17♁ 1	24♁39	8♁12	7♁58	6♁ 7	4♁36	18♁19	21♁29	10♁ 8
T 2	14 36 9	10°41'27	10°51	20°40	26°16	8°47	8° 2	6° 9	4°37	18°19	21°30	10° 8
W 3	14 40 5	11°39'36	11°48	24°25	27°54	9°23	8° 7	6°11	4°38	18°19	21°30	10° 9
T 4	14 44 2	12°37'43	12°46	28°15	29°31	9°58	8°11	6°12	4°38	18°20	21°30	10°10
F 5	14 47 58	13°35'48	13°43	2♁13	1♁ 9	10°34	8°16	6°14	4°39	18°20	21°30	10°10
S 6	14 51 55	14°33'52	14°40	6°17	2°46	11° 9	8°21	6°16	4°40	18°20	21°30	10°11
S 7	14 55 51	15°31'54	15°36	10°29	4°24	11°45	8°25	6°18	4°41	18°21	21°31	10°12
M 8	14 59 48	16°29'55	16°32	14°48	6° 1	12°21	8°30	6°20	4°41	18°21	21°31	10°12
T 9	15 3 44	17°27'55	17°28	19°15	7°39	12°57	8°34	6°22	4°42	18°21	21°31	10°13
W10	15 7 41	18°25'53	18°24	23°50	9°16	13°33	8°39	6°23	4°43	18°22	21°31	10°14
T 11	15 11 37	19°23'49	19°21	28°35	10°54	14° 8	8°43	6°25	4°43	18°22	21°31	10°14
F 12	15 15 34	20°21'44	20°17	3♁27	12°31	14°44	8°48	6°27	4°44	18°23	21°32	10°15
S 13	15 19 31	21°19'37	21°13	8°29	14° 9	15°20	8°52	6°29	4°45	18°23	21°32	10°16
S 14	15 23 27	22°17'29	22°10	13°40	15°46	15°56	8°57	6°31	4°46	18°23	21°32	10°16
M15	15 27 24	23°15'19	23° 7	19° 1	17°24	16°33	9° 1	6°33	4°46	18°24	21°32	10°17
T 16	15 31 20	24°13'06	24° 5	24°30	19° 1	17° 9	9° 6	6°34	4°47	18°24	21°32	10°18
W17	15 35 17	25°10'53	25° 3	0♁ 8	20°39	17°45	9°10	6°36	4°48	18°24	21°33	10°18
T 18	15 39 13	26° 8'37	26° 1	5°54	22°16	18°21	9°15	6°38	4°49	18°25	21°33	10°19
F 19	15 43 10	27° 6'20	27° 0	11°48	23°54	18°57	9°19	6°40	4°49	18°25	21°33	10°20
S 20	15 47 7	28° 4'01	27°59	17°49	25°31	19°34	9°24	6°42	4°50	18°25	21°33	10°20
S 21	15 51 3	29° 1'40	28°58	23°56	27° 9	20°10	9°29	6°44	4°51	18°26	21°33	10°21
M22	15 55 0	29°59'19	29°57	0♁ 8	28°47	20°47	9°33	6°46	4°51	18°26	21°33	10°22
T 23	15 58 56	0♁56'56	0♁57	6°24	0♁24	21°23	9°38	6°47	4°52	18°26	21°34	10°22
W24	16 2 53	1°54'31	1°56	12°43	2° 2	21°59	9°42	6°49	4°53	18°27	21°34	10°23
T 25	16 6 49	2°52'06	2°55	19° 2	3°39	22°36	9°47	6°51	4°54	18°27	21°34	10°24
F 26	16 10 46	3°49'40	3°54	25°21	5°17	23°13	9°51	6°53	4°54	18°28	21°34	10°24
S 27	16 14 42	4°47'12	4°53	1♁37	6°54	23°49	9°56	6°55	4°55	18°28	21°34	10°25
S 28	16 18 39	5°44'44	5°52	7°50	8°32	24°26	10° 0	6°57	4°56	18°28	21°35	10°26
M29	16 22 36	6°42'15	6°51	13°58	10° 9	25° 3	10° 5	6°58	4°57	18°29	21°35	10°26
T 30	16 26 32	7°39'44	7°49	20° 0	11°46	25°39	10° 9	7° 0	4°57	18°29	21°35	10°27
W31	16 30 29	8♁37'13	8♁46	25♁55	13♁24	26♁16	10♁14	7♁ 2	4♁58	18♁29	21♁35	10♁28

Delta T = 12.15 sec.

JUNE 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	16 34 25	9♁34'42	9♁44	1♁42	15♁ 1	26♁53	10♁18	7♁ 4	4♁59	18♁30	21♁35	10♁28
F 2	16 38 22	10°32'09	10°41	7°20	16°39	27°30	10°23	7° 6	4°59	18°30	21°36	10°29
S 3	16 42 18	11°29'36	11°37	12°48	18°16	28° 7	10°27	7° 8	5° 0	18°30	21°36	10°30
S 4	16 46 15	12°27'02	12°33	18° 8	19°53	28°44	10°32	7° 9	5° 1	18°31	21°36	10°30
M 5	16 50 11	13°24'27	13°29	23°17	21°31	29°21	10°36	7°11	5° 2	18°31	21°36	10°31
T 6	16 54 8	14°21'52	14°25	28°17	23° 8	29°58	10°41	7°13	5° 2	18°31	21°36	10°31
W 7	16 58 5	15°19'16	15°21	3♁ 8	24°45	0♁35	10°46	7°15	5° 3	18°32	21°37	10°32
T 8	17 2 1	16°16'39	16°16	7°49	26°22	1°12	10°50	7°17	5° 4	18°32	21°37	10°33
F 9	17 5 58	17°14'02	17°11	12°21	27°59	1°49	10°55	7°19	5° 4	18°33	21°37	10°33
S 10	17 9 54	18°11'24	18° 7	16°45	29°37	2°27	10°59	7°21	5° 5	18°33	21°37	10°34
S 11	17 13 51	19° 8'45	19° 3	21° 0	1♁14	3° 4	11° 4	7°22	5° 6	18°33	21°37	10°35
M12	17 17 47	20° 6'05	19°59	25° 7	2°51	3°41	11° 8	7°24	5° 7	18°34	21°38	10°35
T 13	17 21 44	21° 3'24	20°55	29° 7	4°28	4°18	11°13	7°26	5° 7	18°34	21°38	10°36
W14	17 25 40	22° 0'41	21°52	2♁59	6° 5	4°56	11°17	7°28	5° 8	18°34	21°38	10°37
T 15	17 29 37	22°57'58	22°50	6°45	7°42	5°33	11°22	7°30	5° 9	18°35	21°38	10°37
F 16	17 33 34	23°55'14	23°47	10°25	9°19	6°11	11°26	7°32	5°10	18°35	21°38	10°38
S 17	17 37 30	24°52'30	24°45	13°59	10°56	6°48	11°31	7°33	5°10	18°35	21°38	10°39
S 18	17 41 27	25°49'44	25°44	17°28	12°32	7°25	11°35	7°35	5°11	18°36	21°39	10°39
M19	17 45 23	26°46'58	26°42	20°52	14° 9	8° 3	11°40	7°37	5°12	18°36	21°39	10°40
T 20	17 49 20	27°44'12	27°41	24°11	15°46	8°40	11°44	7°39	5°12	18°36	21°39	10°41
W21	17 53 16	28°41'25	28°40	27°26	17°23	9°18	11°49	7°41	5°13	18°37	21°39	10°41
T 22	17 57 13	29°38'37	29°39	0♁37	18°59	9°56	11°54	7°43	5°14	18°37	21°39	10°42
F 23	18 1 9	0♁35'50	0♁38	3°44	20°36	10°33	11°58	7°45	5°15	18°38	21°40	10°43
S 24	18 5 6	1°33'02	1°37	6°48	22°13	11°11	12° 3	7°46	5°15	18°38	21°40	10°43
S 25	18 9 3	2°30'13	2°36	9°49	23°49	11°48	12° 7	7°48	5°16	18°38	21°40	10°44
M26	18 12 59	3°27'25	3°34	12°48	25°26	12°26	12°12	7°50	5°17	18°39	21°40	10°45
T 27	18 16 56	4°24'37	4°32	15°44	27° 2	13° 4	12°16	7°52	5°18	18°39	21°40	10°45
W28	18 20 52	5°21'48	5°30	18°37	28°38	13°42	12°21	7°54	5°18	18°39	21°41	10°46
T 29	18 24 49	6°19'00	6°28	21°29	0♁15	14°19	12°25	7°56	5°19	18°40	21°41	10°47
F 30	18 28 45	7♁16'12	7♁25	24♁19	1♁51	14♁57	12♁30	7♁57	5♁20	18♁40	21♁41	10♁47

Delta T = 12.15 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1815  
heliocentric

JULY 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
S 1	18 32 42	8♁13'24	8♁22	27♄ 8	3♄27	15♁35	12♁34	7♁59	5♁20	18♁40	21♁41	10♁48
S 2	18 36 38	9°10'36	9°19	29°56	5° 4	16°13	12°39	8° 1	5°21	18°41	21°41	10°49
M 3	18 40 35	10° 7'48	10°15	2♁42	6°40	16°51	12°43	8° 3	5°22	18°41	21°42	10°49
T 4	18 44 32	11° 5'01	11°11	5°28	8°16	17°28	12°48	8° 5	5°23	18°41	21°42	10°50
W 5	18 48 28	12° 2'14	12° 6	8°13	9°52	18° 6	12°52	8° 7	5°23	18°42	21°42	10°51
T 6	18 52 25	12°59'28	13° 1	10°58	11°28	18°44	12°57	8° 9	5°24	18°42	21°42	10°51
F 7	18 56 21	13°56'41	13°57	13°42	13° 4	19°22	13° 1	8°10	5°25	18°43	21°42	10°52
S 8	19 0 18	14°53'55	14°52	16°27	14°40	20° 0	13° 6	8°12	5°25	18°43	21°43	10°53
S 9	19 4 14	15°51'09	15°47	19°12	16°16	20°38	13°11	8°14	5°26	18°43	21°43	10°53
M10	19 8 11	16°48'23	16°43	21°57	17°52	21°16	13°15	8°16	5°27	18°44	21°43	10°54
T 11	19 12 8	17°45'36	17°39	24°44	19°28	21°54	13°20	8°18	5°28	18°44	21°43	10°55
W12	19 16 4	18°42'50	18°35	27°30	21° 3	22°32	13°24	8°20	5°28	18°44	21°43	10°55
T 13	19 20 1	19°40'04	19°32	0♁18	22°39	23°10	13°29	8°21	5°29	18°45	21°43	10°56
F 14	19 23 57	20°37'17	20°29	3° 8	24°15	23°48	13°33	8°23	5°30	18°45	21°44	10°57
S 15	19 27 54	21°34'31	21°26	5°58	25°50	24°26	13°38	8°25	5°31	18°45	21°44	10°57
S 16	19 31 50	22°31'45	22°24	8°51	27°26	25° 4	13°42	8°27	5°31	18°46	21°44	10°58
M17	19 35 47	23°28'59	23°22	11°45	29° 2	25°42	13°47	8°29	5°32	18°46	21°44	10°59
T 18	19 39 43	24°26'14	24°21	14°42	0♁37	26°20	13°51	8°31	5°33	18°46	21°44	10°59
W19	19 43 40	25°23'29	25°19	17°41	2°13	26°58	13°56	8°33	5°33	18°47	21°45	11° 0
T 20	19 47 37	26°20'44	26°18	20°43	3°48	27°36	14° 0	8°34	5°34	18°47	21°45	11° 1
F 21	19 51 33	27°18'00	27°17	23°48	5°23	28°14	14° 5	8°36	5°35	18°48	21°45	11° 1
S 22	19 55 30	28°15'16	28°16	26°56	6°59	28°52	14° 9	8°38	5°36	18°48	21°45	11° 2
S 23	19 59 26	29°12'33	29°15	0♁ 7	8°34	29°31	14°14	8°40	5°36	18°48	21°45	11° 3
M24	20 3 23	0♁ 9'50	0♁14	3°23	10° 9	0♁ 9	14°19	8°42	5°37	18°49	21°46	11° 3
T 25	20 7 19	1° 7'09	1°13	6°42	11°45	0°47	14°23	8°44	5°38	18°49	21°46	11° 4
W26	20 11 16	2° 4'28	2°11	10° 6	13°20	1°25	14°28	8°45	5°39	18°49	21°46	11° 5
T 27	20 15 12	3° 1'48	3°10	13°34	14°55	2° 3	14°32	8°47	5°39	18°50	21°46	11° 5
F 28	20 19 9	3°59'09	4° 8	17° 8	16°30	2°41	14°37	8°49	5°40	18°50	21°46	11° 6
S 29	20 23 5	4°56'32	5° 5	20°47	18° 5	3°19	14°41	8°51	5°41	18°50	21°47	11° 7
S 30	20 27 2	5°53'55	6° 3	24°32	19°41	3°57	14°46	8°53	5°41	18°51	21°47	11° 7
MB1	20 30 59	6♁51'20	6♁59	28♁23	21♁16	4♁35	14♁50	8♁55	5♁42	18♁51	21♁47	11♁ 8

Delta T = 12.15 sec.

AUGUST 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	20 34 55	7♁48'45	7♁56	2♁20	22♁51	5♁13	14♁55	8♁57	5♁43	18♁51	21♁47	11♁ 8
W 2	20 38 52	8°46'12	8°52	6°25	24°26	5°51	14°59	8°58	5°44	18°52	21°47	11° 9
T 3	20 42 48	9°43'41	9°48	10°37	26° 1	6°30	15° 4	9° 0	5°44	18°52	21°47	11°10
F 4	20 46 45	10°41'10	10°44	14°56	27°36	7° 8	15° 8	9° 2	5°45	18°53	21°48	11°10
S 5	20 50 41	11°38'40	11°39	19°23	29°11	7°46	15°13	9° 4	5°46	18°53	21°48	11°11
S 6	20 54 38	12°36'12	12°35	23°59	0♁46	8°24	15°17	9° 6	5°46	18°53	21°48	11°12
M 7	20 58 35	13°33'44	13°30	28°44	2°21	9° 2	15°22	9° 8	5°47	18°54	21°48	11°12
T 8	21 2 31	14°31'18	14°26	3♁37	3°56	9°40	15°26	9° 9	5°48	18°54	21°48	11°13
W 9	21 6 28	15°28'52	15°22	8°39	5°31	10°18	15°31	9°11	5°49	18°54	21°49	11°14
T 10	21 10 24	16°26'27	16°19	13°50	7° 5	10°56	15°36	9°13	5°49	18°55	21°49	11°14
F 11	21 14 21	17°24'03	17°16	19°11	8°40	11°34	15°40	9°15	5°50	18°55	21°49	11°15
S 12	21 18 17	18°21'40	18°13	24°40	10°15	12°12	15°45	9°17	5°51	18°55	21°49	11°16
S 13	21 22 14	19°19'18	19°11	0♁18	11°50	12°50	15°49	9°19	5°52	18°56	21°49	11°16
M14	21 26 10	20°16'57	20° 9	6° 5	13°25	13°28	15°54	9°21	5°52	18°56	21°50	11°17
T 15	21 30 7	21°14'37	21° 7	11°59	15° 0	14° 6	15°58	9°22	5°53	18°56	21°50	11°18
W16	21 34 4	22°12'18	22° 6	18° 0	16°35	14°44	16° 3	9°24	5°54	18°57	21°50	11°18
T 17	21 38 0	23°10'00	23° 5	24° 8	18° 9	15°22	16° 7	9°26	5°54	18°57	21°50	11°19
F 18	21 41 57	24° 7'44	24° 4	0♁20	19°44	16° 0	16°12	9°28	5°55	18°58	21°50	11°20
S 19	21 45 53	25° 5'29	25° 4	6°36	21°19	16°38	16°16	9°30	5°56	18°58	21°51	11°20
S 20	21 49 50	26° 3'15	26° 3	12°54	22°54	17°16	16°21	9°32	5°57	18°58	21°51	11°21
M21	21 53 46	27° 1'02	27° 3	19°14	24°29	17°53	16°25	9°33	5°57	18°59	21°51	11°22
T 22	21 57 43	27°58'51	28° 2	25°32	26° 4	18°31	16°30	9°35	5°58	18°59	21°51	11°22
W23	22 1 39	28°56'41	29° 2	1♁49	27°38	19° 9	16°34	9°37	5°59	18°59	21°51	11°23
T 24	22 5 36	29°54'34	0♁ 1	8° 2	29°13	19°47	16°39	9°39	5°59	19° 0	21°51	11°24
F 25	22 9 32	0♁52'27	1° 0	14°10	0♁48	20°25	16°44	9°41	6° 0	19° 0	21°52	11°24
S 26	22 13 29	1°50'23	1°59	20°11	2°23	21° 3	16°48	9°43	6° 1	19° 0	21°52	11°25
S 27	22 17 26	2°48'20	2°57	26° 6	3°58	21°40	16°53	9°45	6° 2	19° 1	21°52	11°26
M28	22 21 22	3°46'20	3°55	1♁52	5°33	22°18	16°57	9°46	6° 2	19° 1	21°52	11°26
T 29	22 25 19	4°44'21	4°53	7°30	7° 7	22°56	17° 2	9°48	6° 3	19° 1	21°52	11°27
W30	22 29 15	5°42'25	5°50	12°59	8°42	23°33	17° 6	9°50	6° 4	19° 2	21°53	11°28
T 31	22 33 12	6♁40'30	6♁47	18♁18	10♁17	24♁11	17♁11	9♁52	6♁ 5	19♁ 2	21♁53	11♁28

Delta T = 12.15 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1815  
heliocentric

SEPTEMBER 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
F 1	22 37 8	7 <sup>h</sup> 38'37"	7 <sup>h</sup> 44'	23 <sup>o</sup> 27'	11 <sup>o</sup> 52'	24 <sup>h</sup> 49'	17 <sup>o</sup> 15'	9 <sup>o</sup> 54'	6 <sup>o</sup> 5'	19 <sup>o</sup> 3'	21 <sup>h</sup> 53'	11 <sup>h</sup> 29'
S 2	22 41 5	8 <sup>o</sup> 36'46"	8 <sup>o</sup> 40'	28 <sup>o</sup> 27'	13 <sup>o</sup> 27'	25 <sup>o</sup> 26'	17 <sup>o</sup> 20'	9 <sup>o</sup> 56'	6 <sup>o</sup> 6'	19 <sup>o</sup> 3'	21 <sup>h</sup> 53'	11 <sup>h</sup> 30'
S 3	22 45 1	9 <sup>o</sup> 34'57"	9 <sup>o</sup> 36'	3 <sup>h</sup> 17'	15 <sup>o</sup> 2'	26 <sup>o</sup> 4'	17 <sup>o</sup> 24'	9 <sup>o</sup> 58'	6 <sup>o</sup> 7'	19 <sup>o</sup> 3'	21 <sup>h</sup> 53'	11 <sup>h</sup> 30'
M 4	22 48 58	10 <sup>o</sup> 33'09"	10 <sup>o</sup> 32'	7 <sup>o</sup> 58'	16 <sup>o</sup> 37'	26 <sup>o</sup> 41'	17 <sup>o</sup> 29'	9 <sup>o</sup> 59'	6 <sup>o</sup> 7'	19 <sup>o</sup> 4'	21 <sup>h</sup> 54'	11 <sup>h</sup> 31'
T 5	22 52 55	11 <sup>o</sup> 31'23"	11 <sup>o</sup> 29'	12 <sup>o</sup> 30'	18 <sup>o</sup> 12'	27 <sup>o</sup> 19'	17 <sup>o</sup> 33'	10 <sup>o</sup> 1'	6 <sup>o</sup> 8'	19 <sup>o</sup> 4'	21 <sup>h</sup> 54'	11 <sup>h</sup> 32'
W 6	22 56 51	12 <sup>o</sup> 29'39"	12 <sup>o</sup> 25'	16 <sup>o</sup> 53'	19 <sup>o</sup> 47'	27 <sup>o</sup> 56'	17 <sup>o</sup> 38'	10 <sup>o</sup> 3'	6 <sup>o</sup> 9'	19 <sup>o</sup> 4'	21 <sup>h</sup> 54'	11 <sup>h</sup> 32'
T 7	23 0 48	13 <sup>o</sup> 27'57"	13 <sup>o</sup> 22'	21 <sup>o</sup> 8'	21 <sup>o</sup> 22'	28 <sup>o</sup> 34'	17 <sup>o</sup> 42'	10 <sup>o</sup> 5'	6 <sup>o</sup> 10'	19 <sup>o</sup> 5'	21 <sup>h</sup> 54'	11 <sup>h</sup> 33'
F 8	23 4 44	14 <sup>o</sup> 26'16"	14 <sup>o</sup> 19'	25 <sup>o</sup> 15'	22 <sup>o</sup> 57'	29 <sup>o</sup> 11'	17 <sup>o</sup> 47'	10 <sup>o</sup> 7'	6 <sup>o</sup> 10'	19 <sup>o</sup> 5'	21 <sup>h</sup> 54'	11 <sup>h</sup> 33'
S 9	23 8 41	15 <sup>o</sup> 24'36"	15 <sup>o</sup> 16'	29 <sup>o</sup> 14'	24 <sup>o</sup> 32'	29 <sup>o</sup> 49'	17 <sup>o</sup> 51'	10 <sup>o</sup> 9'	6 <sup>o</sup> 11'	19 <sup>o</sup> 5'	21 <sup>h</sup> 55'	11 <sup>h</sup> 34'
S 10	23 12 37	16 <sup>o</sup> 22'59"	16 <sup>o</sup> 14'	3 <sup>h</sup> 7'	26 <sup>o</sup> 7'	0 <sup>h</sup> 26'	17 <sup>o</sup> 56'	10 <sup>o</sup> 10'	6 <sup>o</sup> 12'	19 <sup>o</sup> 6'	21 <sup>h</sup> 55'	11 <sup>h</sup> 35'
M 11	23 16 34	17 <sup>o</sup> 21'22"	17 <sup>o</sup> 12'	6 <sup>o</sup> 53'	27 <sup>o</sup> 42'	1 <sup>o</sup> 3'	18 <sup>o</sup> 1'	10 <sup>o</sup> 12'	6 <sup>o</sup> 12'	19 <sup>o</sup> 6'	21 <sup>h</sup> 55'	11 <sup>h</sup> 35'
T 12	23 20 30	18 <sup>o</sup> 19'48"	18 <sup>o</sup> 11'	10 <sup>o</sup> 32'	29 <sup>o</sup> 17'	1 <sup>o</sup> 41'	18 <sup>o</sup> 5'	10 <sup>o</sup> 14'	6 <sup>o</sup> 13'	19 <sup>o</sup> 6'	21 <sup>h</sup> 55'	11 <sup>h</sup> 36'
W 13	23 24 27	19 <sup>o</sup> 18'15"	19 <sup>o</sup> 10'	14 <sup>o</sup> 6'	0 <sup>h</sup> 52'	2 <sup>o</sup> 18'	18 <sup>o</sup> 10'	10 <sup>o</sup> 16'	6 <sup>o</sup> 14'	19 <sup>o</sup> 7'	21 <sup>h</sup> 55'	11 <sup>h</sup> 37'
T 14	23 28 24	20 <sup>o</sup> 16'44"	20 <sup>o</sup> 10'	17 <sup>o</sup> 35'	2 <sup>o</sup> 27'	2 <sup>o</sup> 55'	18 <sup>o</sup> 14'	10 <sup>o</sup> 18'	6 <sup>o</sup> 15'	19 <sup>o</sup> 7'	21 <sup>h</sup> 55'	11 <sup>h</sup> 37'
F 15	23 32 20	21 <sup>o</sup> 15'14"	21 <sup>o</sup> 9'	20 <sup>o</sup> 58'	4 <sup>o</sup> 2'	3 <sup>o</sup> 32'	18 <sup>o</sup> 19'	10 <sup>o</sup> 20'	6 <sup>o</sup> 15'	19 <sup>o</sup> 7'	21 <sup>h</sup> 56'	11 <sup>h</sup> 38'
S 16	23 36 17	22 <sup>o</sup> 13'46"	22 <sup>o</sup> 9'	24 <sup>o</sup> 17'	5 <sup>o</sup> 37'	4 <sup>o</sup> 9'	18 <sup>o</sup> 23'	10 <sup>o</sup> 22'	6 <sup>o</sup> 16'	19 <sup>o</sup> 8'	21 <sup>h</sup> 56'	11 <sup>h</sup> 39'
S 17	23 40 13	23 <sup>o</sup> 12'20"	23 <sup>o</sup> 9'	27 <sup>o</sup> 32'	7 <sup>o</sup> 12'	4 <sup>o</sup> 47'	18 <sup>o</sup> 28'	10 <sup>o</sup> 23'	6 <sup>o</sup> 17'	19 <sup>o</sup> 8'	21 <sup>h</sup> 56'	11 <sup>h</sup> 39'
M 18	23 44 10	24 <sup>o</sup> 10'55"	24 <sup>o</sup> 10'	0 <sup>h</sup> 43'	8 <sup>o</sup> 47'	5 <sup>o</sup> 24'	18 <sup>o</sup> 32'	10 <sup>o</sup> 25'	6 <sup>o</sup> 18'	19 <sup>o</sup> 9'	21 <sup>h</sup> 56'	11 <sup>h</sup> 40'
T 19	23 48 6	25 <sup>o</sup> 9'33"	25 <sup>o</sup> 10'	3 <sup>o</sup> 50'	10 <sup>o</sup> 22'	6 <sup>o</sup> 1'	18 <sup>o</sup> 37'	10 <sup>o</sup> 27'	6 <sup>o</sup> 18'	19 <sup>o</sup> 9'	21 <sup>h</sup> 56'	11 <sup>h</sup> 41'
W 20	23 52 3	26 <sup>o</sup> 8'12"	26 <sup>o</sup> 11'	6 <sup>o</sup> 54'	11 <sup>o</sup> 58'	6 <sup>o</sup> 38'	18 <sup>o</sup> 41'	10 <sup>o</sup> 29'	6 <sup>o</sup> 19'	19 <sup>o</sup> 9'	21 <sup>h</sup> 57'	11 <sup>h</sup> 41'
T 21	23 55 59	27 <sup>o</sup> 6'54"	27 <sup>o</sup> 11'	9 <sup>o</sup> 55'	13 <sup>o</sup> 33'	7 <sup>o</sup> 15'	18 <sup>o</sup> 46'	10 <sup>o</sup> 31'	6 <sup>o</sup> 20'	19 <sup>o</sup> 10'	21 <sup>h</sup> 57'	11 <sup>h</sup> 42'
F 22	23 59 56	28 <sup>o</sup> 5'37"	28 <sup>o</sup> 11'	12 <sup>o</sup> 53'	15 <sup>o</sup> 8'	7 <sup>o</sup> 52'	18 <sup>o</sup> 50'	10 <sup>o</sup> 33'	6 <sup>o</sup> 20'	19 <sup>o</sup> 10'	21 <sup>h</sup> 57'	11 <sup>h</sup> 43'
S 23	0 3 53	29 <sup>o</sup> 4'23"	29 <sup>o</sup> 11'	15 <sup>o</sup> 49'	16 <sup>o</sup> 43'	8 <sup>o</sup> 28'	18 <sup>o</sup> 55'	10 <sup>o</sup> 34'	6 <sup>o</sup> 21'	19 <sup>o</sup> 10'	21 <sup>h</sup> 57'	11 <sup>h</sup> 43'
S 24	0 7 49	0 <sup>h</sup> 3'11"	0 <sup>h</sup> 11'	18 <sup>o</sup> 43'	18 <sup>o</sup> 19'	9 <sup>o</sup> 5'	18 <sup>o</sup> 59'	10 <sup>o</sup> 36'	6 <sup>o</sup> 22'	19 <sup>o</sup> 11'	21 <sup>h</sup> 57'	11 <sup>h</sup> 44'
M 25	0 11 46	1 <sup>o</sup> 2'02"	1 <sup>o</sup> 10'	21 <sup>o</sup> 35'	19 <sup>o</sup> 54'	9 <sup>o</sup> 42'	19 <sup>o</sup> 4'	10 <sup>o</sup> 38'	6 <sup>o</sup> 23'	19 <sup>o</sup> 11'	21 <sup>h</sup> 58'	11 <sup>h</sup> 45'
T 26	0 15 42	2 <sup>o</sup> 0'54"	2 <sup>o</sup> 10'	24 <sup>o</sup> 25'	21 <sup>o</sup> 29'	10 <sup>o</sup> 19'	19 <sup>o</sup> 9'	10 <sup>o</sup> 40'	6 <sup>o</sup> 23'	19 <sup>o</sup> 11'	21 <sup>h</sup> 58'	11 <sup>h</sup> 45'
W 27	0 19 39	2 <sup>o</sup> 59'49"	3 <sup>o</sup> 8'	27 <sup>o</sup> 13'	23 <sup>o</sup> 4'	10 <sup>o</sup> 56'	19 <sup>o</sup> 13'	10 <sup>o</sup> 42'	6 <sup>o</sup> 24'	19 <sup>o</sup> 12'	21 <sup>h</sup> 58'	11 <sup>h</sup> 46'
T 28	0 23 35	3 <sup>o</sup> 58'47"	4 <sup>o</sup> 7'	0 <sup>h</sup> 1'	24 <sup>o</sup> 40'	11 <sup>o</sup> 32'	19 <sup>o</sup> 18'	10 <sup>o</sup> 44'	6 <sup>o</sup> 25'	19 <sup>o</sup> 12'	21 <sup>h</sup> 58'	11 <sup>h</sup> 47'
F 29	0 27 32	4 <sup>o</sup> 57'47"	5 <sup>o</sup> 5'	2 <sup>o</sup> 47'	26 <sup>o</sup> 15'	12 <sup>o</sup> 9'	19 <sup>o</sup> 22'	10 <sup>o</sup> 46'	6 <sup>o</sup> 25'	19 <sup>o</sup> 12'	21 <sup>h</sup> 58'	11 <sup>h</sup> 47'
S 30	0 31 28	5 <sup>h</sup> 56'48"	6 <sup>h</sup> 2'	5 <sup>h</sup> 33'	27 <sup>h</sup> 51'	12 <sup>h</sup> 45'	19 <sup>h</sup> 27'	10 <sup>h</sup> 47'	6 <sup>h</sup> 26'	19 <sup>h</sup> 13'	21 <sup>h</sup> 58'	11 <sup>h</sup> 48'

Delta T = 12.15 sec.

OCTOBER 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
S 1	0 35 25	6 <sup>h</sup> 55'53"	7 <sup>h</sup> 0'	8 <sup>h</sup> 18'	29 <sup>h</sup> 26'	13 <sup>h</sup> 22'	19 <sup>o</sup> 31'	10 <sup>o</sup> 49'	6 <sup>o</sup> 27'	19 <sup>o</sup> 13'	21 <sup>h</sup> 59'	11 <sup>h</sup> 49'
M 2	0 39 22	7 <sup>o</sup> 54'59"	7 <sup>o</sup> 57'	11 <sup>o</sup> 3'	1 <sup>h</sup> 2'	13 <sup>o</sup> 59'	19 <sup>o</sup> 36'	10 <sup>o</sup> 51'	6 <sup>o</sup> 28'	19 <sup>o</sup> 14'	21 <sup>h</sup> 59'	11 <sup>h</sup> 49'
T 3	0 43 18	8 <sup>o</sup> 54'07"	8 <sup>o</sup> 54'	13 <sup>o</sup> 48'	2 <sup>o</sup> 37'	14 <sup>o</sup> 35'	19 <sup>o</sup> 40'	10 <sup>o</sup> 53'	6 <sup>o</sup> 28'	19 <sup>o</sup> 14'	21 <sup>h</sup> 59'	11 <sup>h</sup> 50'
W 4	0 47 15	9 <sup>o</sup> 53'18"	9 <sup>o</sup> 51'	16 <sup>o</sup> 32'	4 <sup>o</sup> 13'	15 <sup>o</sup> 11'	19 <sup>o</sup> 45'	10 <sup>o</sup> 55'	6 <sup>o</sup> 29'	19 <sup>o</sup> 14'	21 <sup>h</sup> 59'	11 <sup>h</sup> 51'
T 5	0 51 11	10 <sup>o</sup> 52'30"	10 <sup>o</sup> 49'	19 <sup>o</sup> 17'	5 <sup>o</sup> 48'	15 <sup>o</sup> 48'	19 <sup>o</sup> 49'	10 <sup>o</sup> 57'	6 <sup>o</sup> 30'	19 <sup>o</sup> 15'	21 <sup>h</sup> 59'	11 <sup>h</sup> 51'
F 6	0 55 8	11 <sup>o</sup> 51'44"	11 <sup>o</sup> 46'	22 <sup>o</sup> 3'	7 <sup>o</sup> 24'	16 <sup>o</sup> 24'	19 <sup>o</sup> 54'	10 <sup>o</sup> 59'	6 <sup>o</sup> 31'	19 <sup>o</sup> 15'	22 <sup>o</sup> 0'	11 <sup>h</sup> 52'
S 7	0 59 4	12 <sup>o</sup> 51'01"	12 <sup>o</sup> 44'	24 <sup>o</sup> 49'	8 <sup>o</sup> 59'	17 <sup>o</sup> 0'	19 <sup>o</sup> 58'	11 <sup>o</sup> 0'	6 <sup>o</sup> 31'	19 <sup>o</sup> 15'	22 <sup>o</sup> 0'	11 <sup>h</sup> 52'
S 8	1 3 1	13 <sup>o</sup> 50'19"	13 <sup>o</sup> 42'	27 <sup>o</sup> 36'	10 <sup>o</sup> 35'	17 <sup>o</sup> 37'	20 <sup>o</sup> 3'	11 <sup>o</sup> 2'	6 <sup>o</sup> 32'	19 <sup>o</sup> 16'	22 <sup>o</sup> 0'	11 <sup>h</sup> 53'
M 9	1 6 57	14 <sup>o</sup> 49'39"	14 <sup>o</sup> 41'	0 <sup>h</sup> 24'	12 <sup>o</sup> 10'	18 <sup>o</sup> 13'	20 <sup>o</sup> 7'	11 <sup>o</sup> 4'	6 <sup>o</sup> 33'	19 <sup>o</sup> 16'	22 <sup>o</sup> 0'	11 <sup>h</sup> 54'
T 10	1 10 54	15 <sup>o</sup> 49'01"	15 <sup>o</sup> 40'	3 <sup>o</sup> 13'	13 <sup>o</sup> 46'	18 <sup>o</sup> 49'	20 <sup>o</sup> 12'	11 <sup>o</sup> 6'	6 <sup>o</sup> 33'	19 <sup>o</sup> 16'	22 <sup>o</sup> 0'	11 <sup>h</sup> 54'
W 11	1 14 50	16 <sup>o</sup> 48'24"	16 <sup>o</sup> 39'	6 <sup>o</sup> 4'	15 <sup>o</sup> 22'	19 <sup>o</sup> 25'	20 <sup>o</sup> 17'	11 <sup>o</sup> 8'	6 <sup>o</sup> 34'	19 <sup>o</sup> 17'	22 <sup>o</sup> 1'	11 <sup>h</sup> 55'
T 12	1 18 47	17 <sup>o</sup> 47'49"	17 <sup>o</sup> 39'	8 <sup>o</sup> 57'	16 <sup>o</sup> 57'	20 <sup>o</sup> 1'	20 <sup>o</sup> 21'	11 <sup>o</sup> 10'	6 <sup>o</sup> 35'	19 <sup>o</sup> 17'	22 <sup>o</sup> 1'	11 <sup>h</sup> 56'
F 13	1 22 44	18 <sup>o</sup> 47'16"	18 <sup>o</sup> 39'	11 <sup>o</sup> 51'	18 <sup>o</sup> 33'	20 <sup>o</sup> 37'	20 <sup>o</sup> 26'	11 <sup>o</sup> 12'	6 <sup>o</sup> 36'	19 <sup>o</sup> 17'	22 <sup>o</sup> 1'	11 <sup>h</sup> 56'
S 14	1 26 40	19 <sup>o</sup> 46'45"	19 <sup>o</sup> 40'	14 <sup>o</sup> 48'	20 <sup>o</sup> 9'	21 <sup>o</sup> 13'	20 <sup>o</sup> 30'	11 <sup>o</sup> 13'	6 <sup>o</sup> 36'	19 <sup>o</sup> 18'	22 <sup>o</sup> 1'	11 <sup>h</sup> 57'
S 15	1 30 37	20 <sup>o</sup> 46'16"	20 <sup>o</sup> 41'	17 <sup>o</sup> 47'	21 <sup>o</sup> 45'	21 <sup>o</sup> 49'	20 <sup>o</sup> 35'	11 <sup>o</sup> 15'	6 <sup>o</sup> 37'	19 <sup>o</sup> 18'	22 <sup>o</sup> 1'	11 <sup>h</sup> 58'
M 16	1 34 33	21 <sup>o</sup> 45'48"	21 <sup>o</sup> 42'	20 <sup>o</sup> 49'	23 <sup>o</sup> 21'	22 <sup>o</sup> 25'	20 <sup>o</sup> 39'	11 <sup>o</sup> 17'	6 <sup>o</sup> 38'	19 <sup>o</sup> 19'	22 <sup>o</sup> 2'	11 <sup>h</sup> 58'
T 17	1 38 30	22 <sup>o</sup> 45'22"	22 <sup>o</sup> 43'	23 <sup>o</sup> 54'	24 <sup>o</sup> 56'	23 <sup>o</sup> 0'	20 <sup>o</sup> 44'	11 <sup>o</sup> 19'	6 <sup>o</sup> 38'	19 <sup>o</sup> 19'	22 <sup>o</sup> 2'	11 <sup>h</sup> 59'
W 18	1 42 26	23 <sup>o</sup> 44'59"	23 <sup>o</sup> 44'	27 <sup>o</sup> 2'	26 <sup>o</sup> 32'	23 <sup>o</sup> 36'	20 <sup>o</sup> 48'	11 <sup>o</sup> 21'	6 <sup>o</sup> 39'	19 <sup>o</sup> 19'	22 <sup>o</sup> 2'	12 <sup>o</sup> 0'
T 19	1 46 23	24 <sup>o</sup> 44'37"	24 <sup>o</sup> 46'	0 <sup>h</sup> 13'	28 <sup>o</sup> 8'	24 <sup>o</sup> 12'	20 <sup>o</sup> 53'	11 <sup>o</sup> 23'	6 <sup>o</sup> 40'	19 <sup>o</sup> 20'	22 <sup>o</sup> 2'	12 <sup>o</sup> 0'
F 20	1 50 19	25 <sup>o</sup> 44'17"	25 <sup>o</sup> 47'	3 <sup>o</sup> 29'	29 <sup>o</sup> 44'	24 <sup>o</sup> 47'	20 <sup>o</sup> 57'	11 <sup>o</sup> 24'	6 <sup>o</sup> 41'	19 <sup>o</sup> 20'	22 <sup>o</sup> 2'	12 <sup>o</sup> 1'
S 21	1 54 16	26 <sup>o</sup> 44'00"	26 <sup>o</sup> 49'	6 <sup>o</sup> 48'	1 <sup>h</sup> 20'	25 <sup>o</sup> 23'	21 <sup>o</sup> 2'	11 <sup>o</sup> 26'	6 <sup>o</sup> 41'	19 <sup>o</sup> 20'	22 <sup>o</sup> 2'	12 <sup>o</sup> 2'
S 22	1 58 13	27 <sup>o</sup> 43'44"	27 <sup>o</sup> 50'	10 <sup>o</sup> 12'	2 <sup>o</sup> 56'	25 <sup>o</sup> 59'	21 <sup>o</sup> 6'	11 <sup>o</sup> 28'	6 <sup>o</sup> 42'	19 <sup>o</sup> 21'	22 <sup>o</sup> 3'	12 <sup>o</sup> 2'
M 23	2 2 9	28 <sup>o</sup> 43'31"	28 <sup>o</sup> 51'	13 <sup>o</sup> 41'	4 <sup>o</sup> 32'	26 <sup>o</sup> 34'	21 <sup>o</sup> 11'	11 <sup>o</sup> 30'	6 <sup>o</sup> 43'	19 <sup>o</sup> 21'	22 <sup>o</sup> 3'	12 <sup>o</sup> 3'
T 24	2 6 6	29 <sup>o</sup> 43'21"	29 <sup>o</sup> 51'	17 <sup>o</sup> 15'	6 <sup>o</sup> 8'	27 <sup>o</sup> 9'	21 <sup>o</sup> 15'	11 <sup>o</sup> 32'	6 <sup>o</sup> 44'	19 <sup>o</sup> 21'	22 <sup>o</sup> 3'	12 <sup>o</sup> 4'
W 25	2 10 2	0 <sup>h</sup> 43'12"	0 <sup>h</sup> 52'	20 <sup>o</sup> 54'	7 <sup>o</sup> 44'	27 <sup>o</sup> 45'	21 <sup>o</sup> 20'	11 <sup>o</sup> 34'	6 <sup>o</sup> 44'	19 <sup>o</sup> 22'	22 <sup>o</sup> 3'	12 <sup>o</sup> 4'
T 26	2 13 59	1 <sup>o</sup> 43'06"	1 <sup>o</sup> 52'	24 <sup>o</sup> 39'	9 <sup>o</sup> 20'	28 <sup>o</sup> 20'	21 <sup>o</sup> 25'	11 <sup>o</sup> 36'	6 <sup>o</sup> 45'	19 <sup>o</sup> 22'	22 <sup>o</sup> 3'	12 <sup>o</sup> 5'
F 27	2 17 55	2 <sup>o</sup> 43'02"	2 <sup>o</sup> 51'	28 <sup>o</sup> 30'	10 <sup>o</sup> 56'	28 <sup>o</sup> 55'	21 <sup>o</sup> 29'	11 <sup>o</sup> 37'	6 <sup>o</sup> 46'	19 <sup>o</sup> 22'	22 <sup>o</sup> 4'	12 <sup>o</sup> 6'
S 28	2 21 52	3 <sup>o</sup> 43'00"	3 <sup>o</sup> 50'	2 <sup>h</sup> 28'	12 <sup>o</sup> 32'	29 <sup>o</sup> 31'	21 <sup>o</sup> 34'	11 <sup>o</sup> 39'	6 <sup>o</sup> 46'	19 <sup>o</sup> 23'	22 <sup>o</sup> 4'	12 <sup>o</sup> 6'
S 29	2 25 48	4 <sup>o</sup> 43'00"	4 <sup>o</sup> 49'	6 <sup>o</sup> 33'	14 <sup>o</sup> 8'	0 <sup>h</sup> 6'	21 <sup>o</sup> 38'	11 <sup>o</sup> 41'	6 <sup>o</sup> 47'	19 <sup>o</sup> 23'	22 <sup>o</sup> 4'	12 <sup>o</sup> 7'
M 30	2 29 45	5 <sup>o</sup> 43'02"	5 <sup>o</sup>									

SWISS EPHEMERIS for the year 1815  
heliocentric

NOVEMBER 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
W 1	2 37 38	7♃43'13	7♃44	19♃32	18♃57	1♃51	21♃52	11♃47	6♃49	19♃24	22♃5	12♃9
T 2	2 41 35	8°43'21	8°42	24° 8	20°33	2°26	21°56	11°49	6°50	19°25	22° 5	12° 9
F 3	2 45 31	9°43'31	9°40	28°53	22°10	3° 1	22° 1	11°50	6°51	19°25	22° 5	12°10
S 4	2 49 28	10°43'43	10°39	3♃46	23°46	3°36	22° 5	11°52	6°51	19°25	22° 5	12°11
S 5	2 53 24	11°43'57	11°38	8°49	25°22	4°10	22°10	11°54	6°52	19°26	22° 5	12°11
M 6	2 57 21	12°44'12	12°37	14° 0	26°59	4°45	22°14	11°56	6°53	19°26	22° 6	12°12
T 7	3 1 17	13°44'28	13°36	19°21	28°35	5°20	22°19	11°58	6°54	19°26	22° 6	12°13
W 8	3 5 14	14°44'46	14°36	24°51	0♂12	5°54	22°24	12° 0	6°54	19°27	22° 6	12°13
T 9	3 9 11	15°45'06	15°36	0♂29	1°48	6°29	22°28	12° 2	6°55	19°27	22° 6	12°14
F 10	3 13 7	16°45'27	16°36	6°16	3°25	7° 3	22°33	12° 3	6°56	19°27	22° 6	12°15
S 11	3 17 4	17°45'49	17°37	12°11	5° 1	7°38	22°37	12° 5	6°56	19°28	22° 6	12°15
S 12	3 21 0	18°46'13	18°38	18°12	6°38	8°12	22°42	12° 7	6°57	19°28	22° 7	12°16
M13	3 24 57	19°46'38	19°40	24°20	8°14	8°47	22°46	12° 9	6°58	19°29	22° 7	12°17
T 14	3 28 53	20°47'05	20°42	0♂32	9°51	9°21	22°51	12°11	6°59	19°29	22° 7	12°17
W15	3 32 50	21°47'33	21°44	6°48	11°28	9°55	22°55	12°13	6°59	19°29	22° 7	12°18
T 16	3 36 46	22°48'02	22°46	13° 6	13° 4	10°29	23° 0	12°15	7° 0	19°30	22° 7	12°19
F 17	3 40 43	23°48'33	23°49	19°26	14°41	11° 3	23° 4	12°16	7° 1	19°30	22° 8	12°19
S 18	3 44 40	24°49'06	24°51	25°44	16°18	11°37	23° 9	12°18	7° 2	19°30	22° 8	12°20
S 19	3 48 36	25°49'40	25°53	2♁ 1	17°55	12°11	23°13	12°20	7° 2	19°31	22° 8	12°21
M20	3 52 33	26°50'16	26°56	8°13	19°31	12°45	23°18	12°22	7° 3	19°31	22° 8	12°21
T 21	3 56 29	27°50'54	27°58	14°21	21° 8	13°19	23°23	12°24	7° 4	19°31	22° 8	12°22
W22	4 0 26	28°51'33	28°59	20°23	22°45	13°53	23°27	12°26	7° 4	19°32	22° 9	12°23
T 23	4 4 22	29°52'14	0♂1 1	26°17	24°22	14°27	23°32	12°28	7° 5	19°32	22° 9	12°23
F 24	4 8 19	0♂52'56	1° 2	2♁ 3	25°59	15° 0	23°36	12°29	7° 6	19°32	22° 9	12°24
S 25	4 12 15	1°53'40	2° 2	7°41	27°36	15°34	23°41	12°31	7° 7	19°33	22° 9	12°24
S 26	4 16 12	2°54'26	3° 2	13° 9	29°13	16° 8	23°45	12°33	7° 7	19°33	22° 9	12°25
M27	4 20 9	3°55'13	4° 2	18°28	0♁50	16°41	23°50	12°35	7° 8	19°34	22°10	12°26
T 28	4 24 5	4°56'02	5° 1	23°37	2°27	17°15	23°54	12°37	7° 9	19°34	22°10	12°26
W29	4 28 2	5°56'52	6° 0	28°36	4° 4	17°48	23°59	12°39	7° 9	19°34	22°10	12°27
T 30	4 31 58	6♂57'43	7♂1 0	3♂26	5♁41	18♂22	24♂ 3	12♂41	7♂10	19♂35	22♂10	12♂28

Delta T = 12.15 sec.

DECEMBER 1815

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
F 1	4 35 55	7♂58'36	7♂59	8♂ 7	7♁18	18♂55	24♂ 8	12♂42	7♂11	19♂35	22♂10	12♂28
S 2	4 39 51	8°59'30	8°58	12°38	8°55	19°28	24°12	12°44	7°12	19°35	22°10	12°29
S 3	4 43 48	10° 0'25	9°57	17° 1	10°33	20° 1	24°17	12°46	7°12	19°36	22°11	12°30
M 4	4 47 44	11° 1'21	10°56	21°16	12°10	20°34	24°22	12°48	7°13	19°36	22°11	12°30
T 5	4 51 41	12° 2'18	11°55	25°23	13°47	21° 7	24°26	12°50	7°14	19°36	22°11	12°31
W 6	4 55 38	13° 3'15	12°55	29°22	15°24	21°41	24°31	12°52	7°15	19°37	22°11	12°32
T 7	4 59 34	14° 4'14	13°55	3♁14	17° 2	22°13	24°35	12°54	7°15	19°37	22°11	12°32
F 8	5 3 31	15° 5'12	14°56	7° 0	18°39	22°46	24°40	12°55	7°16	19°37	22°12	12°33
S 9	5 7 27	16° 6'12	15°57	10°39	20°16	23°19	24°44	12°57	7°17	19°38	22°12	12°34
S 10	5 11 24	17° 7'12	16°58	14°13	21°54	23°52	24°49	12°59	7°17	19°38	22°12	12°34
M11	5 15 20	18° 8'13	18° 0	17°41	23°31	24°25	24°53	13° 1	7°18	19°39	22°12	12°35
T 12	5 19 17	19° 9'14	19° 2	21° 5	25° 8	24°57	24°58	13° 3	7°19	19°39	22°12	12°36
W13	5 23 13	20°10'15	20° 4	24°24	26°46	25°30	25° 2	13° 5	7°20	19°39	22°13	12°36
T 14	5 27 10	21°11'18	21° 7	27°38	28°23	26° 3	25° 7	13° 7	7°20	19°40	22°13	12°37
F 15	5 31 7	22°12'20	22° 9	0♂49	0♂ 1	26°35	25°11	13° 8	7°21	19°40	22°13	12°38
S 16	5 35 3	23°13'24	23°12	3°56	1°38	27° 8	25°16	13°10	7°22	19°40	22°13	12°38
S 17	5 39 0	24°14'28	24°15	7° 0	3°15	27°40	25°21	13°12	7°22	19°41	22°13	12°39
M18	5 42 56	25°15'33	25°18	10° 1	4°53	28°12	25°25	13°14	7°23	19°41	22°14	12°40
T 19	5 46 53	26°16'38	26°21	12°59	6°30	28°45	25°30	13°16	7°24	19°41	22°14	12°40
W20	5 50 49	27°17'44	27°24	15°55	8° 8	29°17	25°34	13°18	7°25	19°42	22°14	12°41
T 21	5 54 46	28°18'50	28°26	18°48	9°45	29°49	25°39	13°20	7°25	19°42	22°14	12°41
F 22	5 58 43	29°19'58	29°28	21°40	11°23	0♂21	25°43	13°21	7°26	19°42	22°14	12°42
S 23	6 2 39	0♁21'05	0♁30	24°30	13° 0	0°53	25°48	13°23	7°27	19°43	22°14	12°43
S 24	6 6 36	1°22'14	1°31	27°19	14°38	1°25	25°52	13°25	7°28	19°43	22°15	12°43
M25	6 10 32	2°23'23	2°32	0♂ 6	16°16	1°57	25°57	13°27	7°28	19°44	22°15	12°44
T 26	6 14 29	3°24'33	3°32	2°53	17°53	2°29	26° 1	13°29	7°29	19°44	22°15	12°45
W27	6 18 25	4°25'43	4°32	5°39	19°31	3° 1	26° 6	13°31	7°30	19°44	22°15	12°45
T 28	6 22 22	5°26'54	5°32	8°24	21° 8	3°33	26°11	13°33	7°30	19°45	22°15	12°46
F 29	6 26 18	6°28'05	6°31	11° 8	22°46	4° 4	26°15	13°34	7°31	19°45	22°16	12°47
S 30	6 30 15	7°29'16	7°30	13°53	24°23	4°36	26°20	13°36	7°32	19°45	22°16	12°47
S 31	6 34 12	8♁30'28	8♁30	16♁38	26♁ 1	5♂ 8	26♁24	13♁38	7♁33	19♁46	22♁16	12♁48

Delta T = 12.15 sec.

created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]