

SWISS EPHEMERIS for the year 1990

JANUARY 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	6 41 33	10°18'16"	26°33'	25°R48	6°R17	9°R39	5°R13	15°R36	5°R45	12°R 1	17°M 5	16°R52	18°R28	6°M24	13°R51	
T 2	6 45 29	11°19'26"	10°H 2	25°R30	6°R 9	10°P21	5°R 5	15°R43	5°R49	12°R 3	17°R 6	16°R53	18°R25	6°R31	13°R47	
W 3	6 49 26	12°20'36"	23°42'	25° 0	5°59	11° 3	4°57	15°50	5°53	12°R 6	17°R 8	16°R55	18°R21	6°R38	13°R43	
T 4	6 53 22	13°21'46"	7°R35	24°19	5°46	11°46	4°49	15°57	5°56	12°R 8	17°R10	16°R56	18°R18	6°R45	13°R39	
F 5	6 57 19	14°22'55"	21°40'	23°27	5°31	12°28	4°41	16° 4	6° 0	12°R10	17°R11	16°R56	18°R15	6°R51	13°R34	
S 6	7 1 16	15°24'04"	5°R55	22°25	5°13	13°10	4°33	16°11	6° 3	12°R13	17°R13	16°R54	18°R12	6°R58	13°R30	
S 7	7 5 12	16°25'13"	20°20'	21°15	4°53	13°53	4°25	16°19	6° 7	12°R15	17°R14	16°R51	18°R 9	7° 5	13°R26	
M 8	7 9 9	17°26'21"	4°II49	19°59	4°30	14°35	4°17	16°26	6°10	12°R17	17°R16	16°R47	18°R 5	7°12	13°R22	
T 9	7 13 5	18°27'29"	19°17'	18°40	4° 5	15°18	4°10	16°33	6°14	12°R19	17°R17	16°R43	18°R 2	7°18	13°R18	
W10	7 17 2	19°28'36"	3°R39	17°19	3°39	16° 0	4° 2	16°40	6°18	12°R22	17°R18	16°R38	17°R59	7°R25	13°R14	
T 11	7 20 58	20°29'43"	17°49'	16° 1	3°10	16°43	3°55	16°47	6°21	12°R24	17°R20	16°R35	17°R56	7°R32	13°R10	
F 12	7 24 55	21°30'50"	1°R42	14°46	2°39	17°25	3°47	16°54	6°25	12°R26	17°R21	16°R33	17°R53	7°R38	13°R 6	
S 13	7 28 52	22°31'57"	15°14'	13°37	2° 7	18° 8	3°40	17° 1	6°28	12°R28	17°R23	16°R32	17°R50	7°R45	13°R 2	
S 14	7 32 48	23°33'03"	28°24'	12°36	1°34	18°51	3°33	17° 8	6°32	12°R31	17°R24	16°R33	17°R46	7°R52	12°R58	
M15	7 36 45	24°34'09"	11°R13	11°43	0°59	19°33	3°25	17°15	6°35	12°R33	17°R25	16°R34	17°R43	7°R59	12°R54	
T 16	7 40 41	25°35'15"	23°43'	11° 0	0°23	20°16	3°18	17°22	6°39	12°R35	17°R26	16°R36	17°R40	8° 5	12°R50	
W17	7 44 38	26°36'20"	5°R56	10°27	29°R47	20°59	3°12	17°29	6°42	12°R37	17°R27	16°R37	17°R37	8°12	12°R46	
T 18	7 48 34	27°37'25"	17°58'	10° 3	29°10	21°41	3° 5	17°37	6°45	12°R39	17°R29	16°R38	17°R34	8°19	12°R42	
F 19	7 52 31	28°38'30"	29°52'	9°48	28°33	22°24	2°58	17°44	6°49	12°R42	17°R30	16°R39	17°R31	8°25	12°R38	
S 20	7 56 27	29°39'35"	11°M44	9°D42	27°56	23° 7	2°52	17°51	6°52	12°R44	17°R31	16°R38	17°R27	8°32	12°R34	
S 21	8 0 24	0°R40'39"	23°39'	9°45	27°20	23°50	2°45	17°58	6°56	12°R46	17°R32	16°R37	17°R24	8°39	12°R30	
M22	8 4 20	1°41'43"	5°R40	9°55	26°44	24°33	2°39	18° 5	6°59	12°R48	17°R33	16°R35	17°R21	8°46	12°R26	
T 23	8 8 17	2°42'46"	17°52'	10°12	26° 9	25°16	2°33	18°12	7° 2	12°R50	17°R34	16°R33	17°R18	8°52	12°R22	
W24	8 12 14	3°43'49"	0°R17	10°36	25°35	25°59	2°27	18°19	7° 6	12°R53	17°R35	16°R31	17°R15	8°59	12°R19	
T 25	8 16 10	4°44'52"	12°58'	11° 6	25° 2	26°42	2°21	18°25	7° 9	12°R55	17°R36	16°R29	17°R11	9° 6	12°R15	
F 26	8 20 7	5°45'53"	25°56'	11°42	24°30	27°25	2°15	18°32	7°12	12°R57	17°R37	16°R28	17°R 8	9°13	12°R11	
S 27	8 24 3	6°46'54"	9°R11	12°22	24° 1	28° 8	2°10	18°39	7°16	12°R59	17°R38	16°R27	17°R 5	9°19	12°R 8	
S 28	8 28 0	7°47'54"	22°41'	13° 7	23°33	28°51	2° 4	18°46	7°19	13° 1	17°R38	16°R27	17°R 2	9°26	12°R 4	
M29	8 31 56	8°48'53"	6°R24	13°56	23° 7	29°34	1°59	18°53	7°22	13° 3	17°R39	16°R28	16°R59	9°33	12°R 1	
T 30	8 35 53	9°49'50"	20°19'	14°49	22°43	0°R18	1°54	19° 0	7°25	13° 5	17°R40	16°R28	16°R56	9°39	11°R57	
W31	8 39 50	10°50'47"	4°R22	15°R45	22°R22	1°R 1	1°54	19° 0	7°25	13° 5	17°R40	16°R28	16°R56	9°39	11°R57	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
M 1	23s 3	11s50	0n53	20s31	0n28	16s59	1n47	21s56	0s 2	23n13	0s 7	22s14	0n18	23s35	0s16	22s 3
T 2	22 58	5 55	2 3	20 16	0 47	16 47	2 1	22 2	0 2	23 14	0 7	22 14	0 18	23 35	0 16	22 3
W 3	22 52	0n22	3 7	20 2	1 7	16 34	2 16	22 9	0 3	23 14	0 7	22 13	0 17	23 35	0 16	22 3
T 4	22 46	6 43	4 2	19 51	1 26	16 23	2 32	22 16	0 4	23 15	0 7	22 12	0 17	23 35	0 16	22 3
F 5	22 40	12 48	4 43	19 41	1 45	16 12	2 47	22 22	0 4	23 15	0 7	22 11	0 17	23 35	0 16	22 3
S 6	22 33	18 19	5 7	19 33	2 4	16 1	3 2	22 28	0 5	23 15	0 6	22 10	0 17	23 34	0 16	22 2
S 7	22 26	22 50	5 12	19 26	2 21	15 51	3 18	22 34	0 6	23 16	0 6	22 10	0 17	23 34	0 16	22 2
M 8	22 18	25 58	4 57	19 22	2 37	15 41	3 34	22 39	0 6	23 16	0 6	22 9	0 17	23 34	0 16	22 2
T 9	22 10	27 23	3 24	19 20	2 51	15 31	3 49	22 45	0 7	23 17	0 6	22 8	0 17	23 34	0 16	22 2
W10	22 2	26 57	3 44	19 18	3 2	15 23	4 4	22 50	0 8	23 17	0 6	22 7	0 17	23 34	0 16	22 2
T 11	21 53	24 45	2 31	19 19	3 11	15 14	4 20	22 55	0 8	23 17	0 6	22 7	0 17	23 34	0 16	22 1
F 12	21 43	21 6	1 21	19 21	3 18	15 7	4 35	23 0	0 9	23 18	0 5	22 6	0 17	23 34	0 16	22 1
S 13	21 34	16 23	0 7	19 24	3 22	14 59	4 49	23 4	0 10	23 18	0 5	22 5	0 17	23 33	0 16	22 1
S 14	21 23	11 1	1s 5	19 28	3 24	14 53	5 4	23 9	0 10	23 19	0 5	22 4	0 17	23 33	0 16	22 1
M15	21 13	5 20	2 12	19 33	3 23	14 46	5 18	23 13	0 11	23 19	0 5	22 3	0 17	23 33	0 16	22 0
T 16	21 2	0s25	3 11	19 39	3 21	14 41	5 31	23 17	0 12	23 19	0 5	22 2	0 17	23 33	0 16	22 0
W17	20 50	6 1	3 59	19 46	3 16	14 36	5 44	23 21	0 13	23 19	0 5	22 2	0 17	23 33	0 16	22 0
T 18	20 38	11 19	4 37	19 54	3 11	14 31	5 56	23 24	0 13	23 20	0 5	22 1	0 16	23 33	0 16	22 0
F 19	20 26	16 8	5 2	20 2	3 4	14 27	6 8	23 27	0 14	23 20	0 4	22 0	0 16	23 32	0 16	22 0
S 20	20 13	20 20	5 14	20 10	2 56	14 24	6 18	23 31	0 15	23 20	0 4	21 59	0 16	23 32	0 16	21 59
S 21	20 0	23 44	5 13	20 18	2 47	14 21	6 28	23 33	0 15	23 21	0 4	21 58	0 16	23 32	0 16	21 59
M22	19 47	26 9	4 58	20 27	2 38	14 18	6 38	23 36	0 16	23 21	0 4	21 57	0 16	23 32	0 16	21 59
T 23	19 33	27 22	4 30	20 35	2 28	14 16	6 46	23 38	0 17	23 21	0 4	21 56	0 16	23 32	0 16	21 59
W24	19 19	27 15	3 48	20 44	2 18	14 15	6 54	23 40	0 18	23 21	0 4	21 56	0 16	23 32	0 16	21 59
T 25	19 5	25 43	2 55	20 51	2 8	14 14	7 0	23 42	0 18	23 22	0 4	21 55	0 16	23 31	0 16	21 58
F 26	18 50	22 47	1 51	20 59	1 57	14 13	7 6	23 44	0 19	23 22	0 3	21 54	0 16	23 31	0 17	21 58
S 27	18 35	18 36	0 40	21 6	1 47	14 13	7 11	23 46	0 20	23 22	0 3	21 53	0 16	23 31	0 17	21 58
S 28	18 19	13 25	0n34	21 12	1 36	14 14	7 16	23 47	0 21	23 22	0 3	21 52	0 16	23 31	0 17	21 58
M29	18 3	7 29	1 48	21 18	1 26	14 15	7 19	23 48	0 21	23 23	0 3	21 51	0 16	23 31	0 17	21 58
T 30	17 47	1 8	2 57	21 23	1 15	14 16	7 22	23 49	0 22	23 23	0 3	21 50	0 16	23 31	0 17	21 57
W31	17s31	5n20	3n55	21s26	1n 5	14s17	7n24	23s49	0s23	23n23	0s 3	21s49	0n16	23s30	0s17	21s57

Julian Day Number = 2447892.5, Delta T = 56.86 sec  
 Ecliptic obliquity = 23°26'32", Nutation = 0°00'12"  
 Ayanamsha: Fagan/Bradley = 24°36'03", Lahiri = 23°43'03"

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FEBRUARY 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 43 46	11 <sup>h</sup> 51'42"	18 <sup>h</sup> 30'	16 <sup>h</sup> 34'	22 <sup>h</sup> R 2	1 <sup>h</sup> 34'	1 <sup>h</sup> R44	19 <sup>h</sup> 31'	7 <sup>h</sup> 32'	13 <sup>h</sup> 9'	17 <sup>h</sup> M41	16 <sup>h</sup> 29'	16 <sup>h</sup> 49'	9 <sup>h</sup> M53	11 <sup>h</sup> R50	
F 2	8 47 43	12 <sup>h</sup> 52'36"	2 <sup>h</sup> 41'	17 <sup>h</sup> 46'	21 <sup>h</sup> 34'	2 <sup>h</sup> 27'	1 <sup>h</sup> 40'	19 <sup>h</sup> 20'	7 <sup>h</sup> 35'	13 <sup>h</sup> 12'	17 <sup>h</sup> 42'	16 <sup>h</sup> 29'	16 <sup>h</sup> 46'	10 <sup>h</sup> 0'	11 <sup>h</sup> 34'	
S 3	8 51 39	13 <sup>h</sup> 53'29"	16 <sup>h</sup> 53'	18 <sup>h</sup> 50'	21 <sup>h</sup> 31'	3 <sup>h</sup> 11'	1 <sup>h</sup> 36'	19 <sup>h</sup> 27'	7 <sup>h</sup> 38'	13 <sup>h</sup> 14'	17 <sup>h</sup> 42'	16 <sup>h</sup> R30	16 <sup>h</sup> 43'	10 <sup>h</sup> 6'	11 <sup>h</sup> 44'	
S 4	8 55 36	14 <sup>h</sup> 54'20"	1 <sup>h</sup> 33'	19 <sup>h</sup> 57'	21 <sup>h</sup> 19'	3 <sup>h</sup> 54'	1 <sup>h</sup> 31'	19 <sup>h</sup> 33'	7 <sup>h</sup> 41'	13 <sup>h</sup> 16'	17 <sup>h</sup> 43'	16 <sup>h</sup> 29'	16 <sup>h</sup> 40'	10 <sup>h</sup> 13'	11 <sup>h</sup> 40'	
M 5	8 59 32	15 <sup>h</sup> 55'10"	1 <sup>h</sup> 5 <sup>h</sup> 10'	21 <sup>h</sup> 06'	21 <sup>h</sup> 09'	4 <sup>h</sup> 38'	1 <sup>h</sup> 27'	19 <sup>h</sup> 40'	7 <sup>h</sup> 44'	13 <sup>h</sup> 18'	17 <sup>h</sup> 44'	16 <sup>h</sup> 29'	16 <sup>h</sup> 37'	10 <sup>h</sup> 20'	11 <sup>h</sup> 37'	
T 6	9 3 29	16 <sup>h</sup> 55'59"	2 <sup>h</sup> 9 <sup>h</sup> 10'	22 <sup>h</sup> 17'	21 <sup>h</sup> 02'	5 <sup>h</sup> 21'	1 <sup>h</sup> 24'	19 <sup>h</sup> 47'	7 <sup>h</sup> 47'	13 <sup>h</sup> 20'	17 <sup>h</sup> 44'	16 <sup>h</sup> D29	16 <sup>h</sup> 33'	10 <sup>h</sup> 26'	11 <sup>h</sup> 34'	
W 7	9 7 25	17 <sup>h</sup> 56'46"	1 <sup>h</sup> 33 <sup>h</sup> 13'	23 <sup>h</sup> 29'	20 <sup>h</sup> 58'	6 <sup>h</sup> 04'	1 <sup>h</sup> 20'	19 <sup>h</sup> 53'	7 <sup>h</sup> 50'	13 <sup>h</sup> 22'	17 <sup>h</sup> 45'	16 <sup>h</sup> 29'	16 <sup>h</sup> 30'	10 <sup>h</sup> 33'	11 <sup>h</sup> 31'	
T 8	9 11 22	18 <sup>h</sup> 57'31"	2 <sup>h</sup> 6 <sup>h</sup> 42'	24 <sup>h</sup> 44'	20 <sup>h</sup> D55	6 <sup>h</sup> 48'	1 <sup>h</sup> 17'	20 <sup>h</sup> 0'	7 <sup>h</sup> 53'	13 <sup>h</sup> 23'	17 <sup>h</sup> 45'	16 <sup>h</sup> 30'	16 <sup>h</sup> 27'	10 <sup>h</sup> 40'	11 <sup>h</sup> 28'	
F 9	9 15 19	19 <sup>h</sup> 58'16"	1 <sup>h</sup> 0 <sup>h</sup> 9'	26 <sup>h</sup> 0'	20 <sup>h</sup> 56'	7 <sup>h</sup> 31'	1 <sup>h</sup> 13'	20 <sup>h</sup> 6'	7 <sup>h</sup> 56'	13 <sup>h</sup> 25'	17 <sup>h</sup> 45'	16 <sup>h</sup> R30	16 <sup>h</sup> 24'	10 <sup>h</sup> 47'	11 <sup>h</sup> 25'	
S 10	9 19 15	20 <sup>h</sup> 58'58"	2 <sup>h</sup> 32'22"	27 <sup>h</sup> 17'	20 <sup>h</sup> 58'	8 <sup>h</sup> 15'	1 <sup>h</sup> 10'	20 <sup>h</sup> 13'	7 <sup>h</sup> 59'	13 <sup>h</sup> 27'	17 <sup>h</sup> 46'	16 <sup>h</sup> 30'	16 <sup>h</sup> 21'	10 <sup>h</sup> 53'	11 <sup>h</sup> 23'	
S 11	9 23 12	21 <sup>h</sup> 59'40"	6 <sup>h</sup> 17 <sup>h</sup> 20'	28 <sup>h</sup> 36'	21 <sup>h</sup> 03'	8 <sup>h</sup> 59'	1 <sup>h</sup> 08'	20 <sup>h</sup> 19'	8 <sup>h</sup> 01'	13 <sup>h</sup> 29'	17 <sup>h</sup> 46'	16 <sup>h</sup> 29'	16 <sup>h</sup> 17'	11 <sup>h</sup> 0'	11 <sup>h</sup> 20'	
M12	9 27 8	23 <sup>h</sup> 0'20"	1 <sup>h</sup> 9 <sup>h</sup> 1'	29 <sup>h</sup> 56'	21 <sup>h</sup> 11'	9 <sup>h</sup> 42'	1 <sup>h</sup> 05'	20 <sup>h</sup> 26'	8 <sup>h</sup> 04'	13 <sup>h</sup> 31'	17 <sup>h</sup> 46'	16 <sup>h</sup> 29'	16 <sup>h</sup> 14'	11 <sup>h</sup> 07'	11 <sup>h</sup> 17'	
T 13	9 31 5	24 <sup>h</sup> 0'59"	1 <sup>h</sup> 12 <sup>h</sup> 28'	1 <sup>h</sup> 17 <sup>h</sup> 17'	21 <sup>h</sup> 20'	10 <sup>h</sup> 26'	1 <sup>h</sup> 02'	20 <sup>h</sup> 32'	8 <sup>h</sup> 07'	13 <sup>h</sup> 33'	17 <sup>h</sup> 47'	16 <sup>h</sup> 28'	16 <sup>h</sup> 11'	11 <sup>h</sup> 14'	11 <sup>h</sup> 14'	
W14	9 35 1	25 <sup>h</sup> 1'37"	1 <sup>h</sup> 3 <sup>h</sup> 41'	2 <sup>h</sup> 04'	21 <sup>h</sup> 32'	11 <sup>h</sup> 09'	1 <sup>h</sup> 00'	20 <sup>h</sup> 38'	8 <sup>h</sup> 10'	13 <sup>h</sup> 35'	17 <sup>h</sup> 47'	16 <sup>h</sup> 27'	16 <sup>h</sup> 08'	11 <sup>h</sup> 20'	11 <sup>h</sup> 12'	
T 15	9 38 58	26 <sup>h</sup> 2'13"	1 <sup>h</sup> 5 <sup>h</sup> 44'	2 <sup>h</sup> 44'	21 <sup>h</sup> 46'	11 <sup>h</sup> 53'	0 <sup>h</sup> 58'	20 <sup>h</sup> 45'	8 <sup>h</sup> 13'	13 <sup>h</sup> 37'	17 <sup>h</sup> 47'	16 <sup>h</sup> 26'	16 <sup>h</sup> 05'	11 <sup>h</sup> 27'	11 <sup>h</sup> 09'	
F 16	9 42 54	27 <sup>h</sup> 2'49"	7 <sup>h</sup> 13 <sup>h</sup> 39'	5 <sup>h</sup> 29'	22 <sup>h</sup> 02'	12 <sup>h</sup> 37'	0 <sup>h</sup> 56'	20 <sup>h</sup> 51'	8 <sup>h</sup> 15'	13 <sup>h</sup> 38'	17 <sup>h</sup> 47'	16 <sup>h</sup> 24'	16 <sup>h</sup> 02'	11 <sup>h</sup> 34'	11 <sup>h</sup> 07'	
S 17	9 46 51	28 <sup>h</sup> 3'23"	1 <sup>h</sup> 9 <sup>h</sup> 32'	6 <sup>h</sup> 55'	22 <sup>h</sup> 21'	13 <sup>h</sup> 21'	0 <sup>h</sup> 55'	20 <sup>h</sup> 57'	8 <sup>h</sup> 18'	13 <sup>h</sup> 40'	17 <sup>h</sup> 47'	16 <sup>h</sup> 24'	15 <sup>h</sup> 58'	11 <sup>h</sup> 40'	11 <sup>h</sup> 05'	
S 18	9 50 48	29 <sup>h</sup> 3'56"	1 <sup>h</sup> 17 <sup>h</sup> 26'	8 <sup>h</sup> 22'	22 <sup>h</sup> 41'	14 <sup>h</sup> 04'	0 <sup>h</sup> 53'	21 <sup>h</sup> 03'	8 <sup>h</sup> 20'	13 <sup>h</sup> 42'	17 <sup>h</sup> 47'	16 <sup>h</sup> D24	15 <sup>h</sup> 55'	11 <sup>h</sup> 47'	11 <sup>h</sup> 03'	
M19	9 54 44	0 <sup>h</sup> 4'27"	1 <sup>h</sup> 3 <sup>h</sup> 26'	9 <sup>h</sup> 50'	23 <sup>h</sup> 03'	14 <sup>h</sup> 48'	0 <sup>h</sup> 52'	21 <sup>h</sup> 09'	8 <sup>h</sup> 23'	13 <sup>h</sup> 44'	17 <sup>h</sup> R47	16 <sup>h</sup> 24'	15 <sup>h</sup> 52'	11 <sup>h</sup> 54'	11 <sup>h</sup> 00'	
T 20	9 58 41	1 <sup>h</sup> 0'58'	1 <sup>h</sup> 5 <sup>h</sup> 28'	11 <sup>h</sup> 20'	23 <sup>h</sup> 26'	15 <sup>h</sup> 32'	0 <sup>h</sup> 51'	21 <sup>h</sup> 15'	8 <sup>h</sup> 26'	13 <sup>h</sup> 45'	17 <sup>h</sup> 47'	16 <sup>h</sup> 25'	15 <sup>h</sup> 49'	12 <sup>h</sup> 01'	10 <sup>h</sup> 58'	
W21	10 2 37	2 <sup>h</sup> 0'52'	8 <sup>h</sup> 3 <sup>h</sup> 4'	12 <sup>h</sup> 50'	23 <sup>h</sup> 52'	16 <sup>h</sup> 16'	0 <sup>h</sup> 50'	21 <sup>h</sup> 21'	8 <sup>h</sup> 28'	13 <sup>h</sup> 47'	17 <sup>h</sup> 47'	16 <sup>h</sup> 26'	15 <sup>h</sup> 46'	12 <sup>h</sup> 07'	10 <sup>h</sup> 56'	
T 22	10 6 34	3 <sup>h</sup> 0'55'	2 <sup>h</sup> 0'49'	14 <sup>h</sup> 21'	24 <sup>h</sup> 19'	17 <sup>h</sup> 00'	0 <sup>h</sup> 49'	21 <sup>h</sup> 27'	8 <sup>h</sup> 31'	13 <sup>h</sup> 49'	17 <sup>h</sup> 47'	16 <sup>h</sup> 28'	15 <sup>h</sup> 42'	12 <sup>h</sup> 14'	10 <sup>h</sup> 54'	
F 23	10 10 30	4 <sup>h</sup> 0'62'	3 <sup>h</sup> 1 <sup>h</sup> 56'	15 <sup>h</sup> 53'	24 <sup>h</sup> 48'	17 <sup>h</sup> 44'	0 <sup>h</sup> 49'	21 <sup>h</sup> 33'	8 <sup>h</sup> 33'	13 <sup>h</sup> 50'	17 <sup>h</sup> 47'	16 <sup>h</sup> 29'	15 <sup>h</sup> 39'	12 <sup>h</sup> 21'	10 <sup>h</sup> 53'	
S 24	10 14 27	5 <sup>h</sup> 0'64'	1 <sup>h</sup> 7 <sup>h</sup> 25'	17 <sup>h</sup> 27'	25 <sup>h</sup> 18'	18 <sup>h</sup> 28'	0 <sup>h</sup> 49'	21 <sup>h</sup> 39'	8 <sup>h</sup> 35'	13 <sup>h</sup> 52'	17 <sup>h</sup> 47'	16 <sup>h</sup> R29	15 <sup>h</sup> 36'	12 <sup>h</sup> 28'	10 <sup>h</sup> 51'	
S 25	10 18 23	6 <sup>h</sup> 0'70'	1 <sup>h</sup> 11 <sup>h</sup> 16'	19 <sup>h</sup> 01'	25 <sup>h</sup> 50'	19 <sup>h</sup> 12'	0 <sup>h</sup> D48	21 <sup>h</sup> 45'	8 <sup>h</sup> 38'	13 <sup>h</sup> 53'	17 <sup>h</sup> 47'	16 <sup>h</sup> 29'	15 <sup>h</sup> 33'	12 <sup>h</sup> 34'	10 <sup>h</sup> 49'	
M26	10 22 20	7 <sup>h</sup> 0'73'	1 <sup>h</sup> 5 <sup>h</sup> 26'	20 <sup>h</sup> 36'	26 <sup>h</sup> 24'	19 <sup>h</sup> 56'	0 <sup>h</sup> 49'	21 <sup>h</sup> 50'	8 <sup>h</sup> 40'	13 <sup>h</sup> 55'	17 <sup>h</sup> 46'	16 <sup>h</sup> 27'	15 <sup>h</sup> 30'	12 <sup>h</sup> 41'	10 <sup>h</sup> 48'	
T 27	10 26 17	8 <sup>h</sup> 0'75'	2 <sup>h</sup> 9 <sup>h</sup> 50'	22 <sup>h</sup> 12'	26 <sup>h</sup> 58'	20 <sup>h</sup> 40'	0 <sup>h</sup> 49'	21 <sup>h</sup> 56'	8 <sup>h</sup> 42'	13 <sup>h</sup> 56'	17 <sup>h</sup> 46'	16 <sup>h</sup> 24'	15 <sup>h</sup> 27'	12 <sup>h</sup> 48'	10 <sup>h</sup> 46'	
W28	10 30 13	9 <sup>h</sup> 1 <sup>h</sup> 8'07"	1 <sup>h</sup> 4 <sup>h</sup> 23'	23 <sup>h</sup> 35'50"	27 <sup>h</sup> 33'4"	21 <sup>h</sup> 32'4"	0 <sup>h</sup> 50'50"	22 <sup>h</sup> 3'1"	8 <sup>h</sup> 44'4"	13 <sup>h</sup> 58'8"	17 <sup>h</sup> M46	16 <sup>h</sup> 21'1"	15 <sup>h</sup> 23'3"	12 <sup>h</sup> M54	10 <sup>h</sup> 54'5"	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat							
T 1	17s14	11n34	4n40	21s30	0n55	14s19	7n25	23s49	0s24	23n23	0s3	21s48	0n16	23s30	0s17	21s57	0n51	2s11	15n30	15s54	15s48	19s37	15n41	7s15
F 2	16 57 17 13	5 8 21 32	0 44 14 21	7 25 23 49	0 24 23 24	0 2 21 48	0 15 23 30	0 17 21 57	0 51 2 11	15 31	15 54	15 49	19 39	15 42	7 15									
S 3	16 40 21 57	5 17 21 33	0 35 14 24	7 25 23 49	0 25 23 24	0 2 21 47	0 15 23 30	0 17 21 57	0 51 2 11	15 31	15 54	15 50	19 42	15 42	7 15									
S 4	16 22 25 23	5 7 21 33	0 25 14 27	7 24 23 49	0 26 23 24	0 2 21 46	0 15 23 30	0 17 21 56	0 51 2 10	15 32	15 54	15 51	19 44	15 43	7 14									
M 5	16 4 27 14	4 38 21 32	0 16 14 29	7 22 23 48	0 27 23 24	0 2 21 45	0 15 23 30	0 17 21 56	0 51 2 10	15 32	15 54	15 52	19 46	15 44	7 14									
T 6	15 46 27 20	3 53 21 30	0 6 14 33	7 20 23 47	0 27 23 24	0 2 21 44	0 15 23 29	0 17 21 56	0 51 2 10	15 33	15 54	15 53	19 48	15 44	7 14									
W 7	15 27 25 43	2 55 21 27	0s 3 14 36	7 18 23 46	0 28 23 24	0 2 21 43	0 15 23 29	0 17 21 56	0 51 2 9	15 33	15 54	15 54	19 51	15 45	7 13									
T 8	15 9 22 35	1 48 21 22	0 11 14 39	7 14 23 45	0 29 23 25	0 2 21 42	0 15 23 29	0 17 21 56	0 51 2 9	15 34	15 54	15 55	19 53	15 45	7 13									
F 9	14 50 18 16	0 35 21 17	0 20 14 43	7 11 23 43	0 30 23 25	0 1 21 41	0 15 23 29	0 17 21 55	0 51 2 9	15 34	15 54	15 55	19 55	15 46	7 13									
S 10	14 30 13 8	0s38	21 10	0 28 14 46	7 7 23 41	0 30 23 25	0 1 21 40	0 15 23 29	0 17 21 55	0 51 2 8	15 35	15 54	15 56	19 57	15 47	7 12								
S 11	14 11 7 31	1 48 21 2	0 36 14 50	7 2 23 39	0 31 23 25	0 1 21 40	0 15 23 29	0 17 21 55	0 51 2 8	15 35	15 54	15 57	20 0	15 47	7 12									
M12	13 51 1 44	2 51 20 53	0 44 14 54	6 57 23 37	0 32 23 25	0 1 21 39	0 15 23 29	0 17 21 55	0 51 2 8	15 36	15 54	15 58	20 2	15 48	7 11									
T 13	13 31 4s 1	3 44 20 42	0 51 14 57	6 52 23 35	0 33 23 25	0 1 21 38	0 15 23 28	0 17 21 55	0 51 2 7	15 36	15 54	15 59	20 4	15 48	7 11									
W14	13 11 9 29	4 26 20 31	0 58 15 1	6 47 23 32	0 34 23 26	0 1 21 37	0 15 23 28	0 17 21 54	0 51 2 7	15 37	15 55	16 0	20 6	15 49	7 11									
T 15	12 50 14 32	4 56 20 18	1 5 15 5	6 41 23 29	0 34 23 26	0 1 21 36	0 15 23 28	0 17 21 54	0 51 2 6	15 37	15 55	16 1	20 8	15 50	7 10									
F 16	12 30 18 59	5 13 20 3	1 11 15 8	6 35 23 26	0 35 23 26	0 1 21 35	0 15 23 28	0 17 21 54	0 51 2 6	15 38	15 55	16 2	20 11	15 50	7 10									
S 17	12 9 22 41	5 16 19 48	1 18 15 11	6 29 23 22	0 36 23 26	0 0 21 34	0 15 23 28	0 17 21 54	0 51 2 5	15 38	15 55	16 3	20 13	15 51	7 9									
S 18	11 48 25 26	5 6 19 31	1 23 15 15	6 23 23 18	0 37 23 26	0 0 21 33	0 15 23 28	0 17 21 54	0 51 2 5	15 39	15 56	16 4	20 15	15 51	7 9									
M19	11 27 27 5	4 42 19 13	1 29 15 18	6 16 23 14	0 37 23 26	0 0 21 32	0 14 23 28	0 17 21 53	0 51 2 5	15 39	15 55	16 5	20 17	15 52	7 8									
T 20	11 5 27 27	4 5 18 54	1 34 15 20	6 9 23 10	0 38 23 26	0n 0 21 32	0 14 23 27	0 17 21 53	0 51 2 4	15 40	15 55	16 6	20 19	15 53	7 8									
W21	10 44 26 28	3 17 18 33	1 39 15 23	6 2 23 6	0 39 23 27	0 0 21 31	0 14 23 27	0 17 21 53	0 51 2 4	15 40	15 55	16 7	20 21	15 53	7 8									
T 22	10 22 24 5	2 17 18 11	1 44 15 25	5 55 23 1	0 40 23 27	0 0 21 30	0 14 23 27	0 17 21 53	0 51 2 3	15 40	15 54	16 8	20 24	15 54	7 7									
F 23	10 0 20 23	1 9 17 48	1 48 15 27	5 48 22 56	0 41 23 27	0 0 21 29	0 14 23																	

SWISS EPHEMERIS for the year 1990

MARCH 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♂	♁
T 1	10 34 10	10♈ 8°23	28♏58	25♌28	28♋12	22♉ 8	0♄50	22♉ 7	8♌47	13♌59	17°R46	16°R18	15♌20	13♌ 1	10°R43
F 2	10 38 6	11° 8'37	13♏59	27° 7	28°50	22°52	0°51	22°12	8°49	14° 1	17♌45	16♌15	15°17	13° 8	10♄42
S 3	10 42 3	12° 8'49	27°51	28°47	29°30	23°37	0°52	22°18	8°51	14° 2	17°45	16°13	15°14	13°15	10°41
S 4	10 45 59	13° 8'59	12♏ 1	0♈29	0♏11	24°21	0°54	22°23	8°53	14° 4	17°44	16°D12	15°11	13°21	10°40
M 5	10 49 56	14° 9'07	25°57	2°11	0°52	25° 5	0°55	22°29	8°55	14° 5	17°44	16°13	15° 8	13°28	10°39
T 6	10 53 52	15° 9'13	9♏39	3°55	1°35	25°49	0°57	22°34	8°57	14° 6	17°43	16°14	15° 4	13°35	10°38
W 7	10 57 49	16° 9'16	23° 8	5°39	2°19	26°33	0°59	22°39	8°59	14° 8	17°43	16°16	15° 1	13°41	10°37
T 8	11 1 146	17° 9'17	6♏22	7°25	3° 4	27°18	1° 1	22°44	9° 1	14° 9	17°42	16°17	14°58	13°48	10°36
F 9	11 5 42	18° 9'17	19°24	9°11	3°50	28° 2	1° 3	22°49	9° 2	14°10	17°42	16°R17	14°55	13°55	10°36
S 10	11 9 39	19° 9'14	2♏15	10°59	4°37	28°46	1° 6	22°54	9° 4	14°11	17°41	16°16	14°52	14° 2	10°35
S 11	11 13 35	20° 9'09	14°53	12°48	5°24	29°31	1° 8	22°59	9° 6	14°13	17°40	16°13	14°48	14° 8	10°35
M12	11 17 32	21° 9'02	27°21	14°39	6°13	0♏15	1°11	23° 4	9° 8	14°14	17°40	16° 9	14°45	14°15	10°35
T 13	11 21 28	22° 8'53	9♏39	16°30	7° 2	0°59	1°14	23° 9	9° 9	14°15	17°39	16° 3	14°42	14°22	10°34
W14	11 25 25	23° 8'42	21°47	18°22	7°52	1°44	1°18	23°13	9°11	14°16	17°38	15°56	14°39	14°29	10°34
T 15	11 29 21	24° 8'30	3♏47	20°16	8°43	2°28	1°21	23°18	9°12	14°17	17°37	15°49	14°36	14°35	10°D34
F 16	11 33 18	25° 8'16	15°42	22°11	9°34	3°13	1°25	23°22	9°14	14°18	17°37	15°42	14°33	14°42	10°34
S 17	11 37 14	26° 8'00	27°34	24° 6	10°26	3°57	1°28	23°27	9°15	14°19	17°36	15°37	14°29	14°49	10°34
S 18	11 41 11	27° 7'42	9♏27	26° 3	11°19	4°42	1°32	23°31	9°17	14°20	17°35	15°33	14°26	14°55	10°34
M19	11 45 8	28° 7'23	21°25	28° 1	12°12	5°26	1°36	23°36	9°18	14°21	17°34	15°31	14°23	15° 2	10°35
T 20	11 49 4	29° 7'02	3♏33	29°59	13° 6	6°11	1°41	23°40	9°19	14°22	17°33	15°D31	14°20	15° 9	10°35
W21	11 53 1	0♏6'39	15°56	1°V59	14° 1	6°55	1°45	23°44	9°21	14°23	17°32	15°32	14°17	15°16	10°36
T 22	11 56 57	1° 6'15	28°39	3°59	14°56	7°40	1°50	23°48	9°22	14°24	17°31	15°34	14°14	15°22	10°36
F 23	12 0 54	2° 5'48	11♌45	6° 0	15°52	8°25	1°55	23°52	9°23	14°25	17°30	15°R35	14°10	15°29	10°37
S 24	12 4 50	3° 5'20	25°18	8° 2	16°48	9° 9	2° 0	23°56	9°24	14°25	17°29	15°34	14° 7	15°36	10°38
S 25	12 8 47	4° 4'50	9♏18	10° 3	17°44	9°54	2° 5	24° 0	9°25	14°26	17°28	15°32	14° 4	15°43	10°38
M26	12 12 43	5° 4'18	23°44	12° 5	18°41	10°39	2°10	24° 4	9°26	14°27	17°27	15°27	14° 1	15°49	10°39
T 27	12 16 40	6° 3'44	8♏29	14° 6	19°39	11°23	2°16	24° 7	9°27	14°28	17°26	15°21	13°58	15°56	10°40
W28	12 20 37	7° 3'08	23°28	16° 7	20°37	12° 8	2°21	24°11	9°28	14°28	17°25	15°13	13°54	16° 3	10°41
T 29	12 24 33	8° 2'30	8♏29	18° 6	21°35	12°53	2°27	24°14	9°29	14°29	17°23	15° 5	13°51	16° 9	10°43
F 30	12 28 30	9° 1'50	23°25	20° 5	22°34	13°37	2°33	24°18	9°30	14°29	17°22	14°57	13°48	16°16	10°44
S 31	12 32 26	10♏1'08	8♏ 6	22♏ 2	23♌34	14♌22	2♄39	24♉21	9♌30	14♉30	17♌21	14♌51	13♌45	16♌23	10♄45

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♂	♁	♂									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	7s46	15n46	5n 0	15s 1	2s 6	15s34	5n 4	22s22	0s45	23n28	0n 1	21s24	0n14	23s26	0s17	21s52	0n51	2s 0	15n44	15s57	16s14	20s39	15n58	7s 4
F 2	7 23	20 52	5 13	14 28	2 8	15 34	4 56	22 16	0 46	23 28	0 1	21 23	0 14	23 26	0 17	21 52	0 51	1 59	15 44	15 58	16 15	20 41	15 59	7 3
S 3	7 0	24 40	5 7	13 55	2 9	15 33	4 48	22 9	0 47	23 28	0 1	21 22	0 14	23 26	0 17	21 51	0 51	1 58	15 45	15 59	16 16	20 43	16 0	7 3
S 4	6 37	26 54	4 43	13 20	2 10	15 32	4 41	22 2	0 48	23 28	0 2	21 21	0 14	23 26	0 17	21 51	0 51	1 58	15 45	15 59	16 17	20 45	16 0	7 2
M 5	6 14	27 24	4 2	12 43	2 10	15 31	4 33	21 55	0 49	23 28	0 2	21 21	0 14	23 26	0 17	21 51	0 51	1 57	15 46	15 59	16 18	20 47	16 1	7 1
T 6	5 51	26 12	3 7	12 6	2 10	15 30	4 25	21 48	0 50	23 28	0 2	21 20	0 14	23 26	0 17	21 51	0 51	1 57	15 46	15 58	16 19	20 49	16 1	7 1
W 7	5 28	23 29	2 3	11 27	2 10	15 27	4 18	21 40	0 50	23 28	0 2	21 19	0 14	23 26	0 17	21 51	0 51	1 56	15 46	15 58	16 20	20 51	16 2	7 0
T 8	5 4	19 33	0 54	10 47	2 9	15 25	4 10	21 32	0 51	23 28	0 2	21 18	0 13	23 25	0 17	21 51	0 51	1 56	15 47	15 57	16 21	20 53	16 3	7 0
F 9	4 41	14 44	0s17	10 5	2 7	15 22	4 2	21 24	0 52	23 28	0 2	21 17	0 13	23 25	0 17	21 50	0 51	1 55	15 47	15 57	16 22	20 55	16 3	6 59
S 10	4 18	9 20	1 26	9 23	2 5	15 19	3 55	21 16	0 53	23 28	0 2	21 17	0 13	23 25	0 17	21 50	0 51	1 55	15 48	15 58	16 23	20 57	16 4	6 59
S 11	3 54	3 39	2 36	8 39	2 3	15 15	3 47	21 8	0 54	23 29	0 2	21 16	0 13	23 25	0 17	21 50	0 51	1 54	15 48	15 59	16 24	20 59	16 4	6 58
M12	3 31	2s 5	3 25	7 54	2 0	15 11	3 39	20 59	0 54	23 29	0 2	21 15	0 13	23 25	0 17	21 50	0 51	1 53	15 49	16 0	16 25	21 1	16 5	6 58
T 13	3 7	7 39	4 10	7 8	1 57	15 6	3 32	20 50	0 55	23 29	0 3	21 14	0 13	23 25	0 17	21 50	0 51	1 53	15 49	16 2	16 26	21 4	16 5	6 57
W14	2 43	12 51	4 43	6 20	1 53	15 1	3 24	20 41	0 56	23 29	0 3	21 14	0 13	23 25	0 17	21 50	0 51	1 52	15 49	16 4	16 26	21 6	16 6	6 57
T 15	2 20	17 31	5 3	5 31	1 49	14 55	3 17	20 32	0 57	23 29	0 3	21 13	0 13	23 25	0 17	21 50	0 51	1 52	15 50	16 6	16 27	21 8	16 7	6 56
F 16	1 56	21 28	5 10	4 42	1 44	14 49	3 9	20 23	0 58	23 29	0 3	21 12	0 13	23 25	0 17	21 50	0 51	1 51	15 50	16 8	16 28	21 10	16 7	6 55
S 17	1 32	24 32	5 3	3 51	1 38	14 42	3 2	20 13	0 59	23 29	0 3	21 12	0 13	23 25	0 17	21 49	0 51	1 50	15 51	16 9	16 29	21 12	16 8	6 55
S 18	1 9	26 32	4 43	2 59	1 32	14 35	2 55	20 3	0 59	23 29	0 3	21 11	0 13	23 25	0 18	21 49	0 51	1 50	15 51	16 10	16 30	21 14	16 8	6 54
M19	0 45	27 20	4 11	2 6	1 26	14 28	2 47	19 53	1 0	23 29	0 3	21 10	0 13	23 24	0 18	21 49	0 51	1 49	15 51	16 11	16 31	21 16	16 9	6 54
T 20	0 21	26 51	3 27	1 12	1 19	14 20	2 40	19 43	1 1	23 29	0 3	21 10	0 13	23 24	0 18	21 49	0 51	1 49	15 52	16 11	16 32	21 18	16 9	6 53
W21	0n 3	25 2	2 33	0 18	1 11	14 11	2 33	19 32	1 2	23 29	0 3	21 9	0 13	23 24	0 18	21 49	0 51	1 48	15 52	16 11	16 33	21 20	16 10	6 53
T 22	0 26	21 54	1 30	0n37	1 3	14 2	2 26	19 22	1 3	23 29	0 4	21 8	0 13	23 24	0 18	21 49	0 51	1 48	15 52	16 10	16 34	21 22	16 10	6 52
F 23	0 50	17 36	0 21	1 33	0 54	13 53	2 19	19 11	1 3	23 29	0 4	21 8	0 13	23 24	0 18	21 49	0 51	1 47	15 53	16 10	16 35	21 24	16 11	6 51
S 24	1 14	12 16	0n52	2 30	0 45	13 43	2 12	19 0	1 4	23 29	0 4	21 7	0 13	23 24	0 18	21 49	0 51	1 46	15 53	16 10	16 36	21 26	16 11	6 51
S 25	1 37	6 10	2 4	3 26	0 36	13 32	2 5	18 49	1 5	23 29	0 4	21 6	0 12	23 24	0 18	21 49	0 51	1 46	15 53	16 11	16 37	21 28	16 12	6 50
M26	2 1	0n25	3 10	4 23	0 25	13 21	1 58	18 38	1 6	23 29	0 4	21 6	0 12	23 24	0 18	21 48	0 51	1 45	15 54	16 12	16 38	21 30	16 12	6 50
T 27	2 24	7 7	4 5	5 20	0 15	13 10	1 51	18 26	1 7	23 29	0 4	21 5	0 12	23 24	0 18	21 48	0 51	1 44	15 54	16 14	16 38	21 32	16 13	6 49
W28	2 48	13 31	4 44	6 16	0 4	12 58	1 44	18 14	1 8	23 29	0 4	21 5	0 12	23 24	0 18	21 48	0 51	1 44	15 54	16 16	16 39	21 34	16 13	6 49

SWISS EPHEMERIS for the year 1990

APRIL 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
S 1	12 36 23	11°0'23	22°28'	23°57'	24°33'	15°7'	2°46'	24°25'	9°31'	14°30'	17°20'	14°R48	13°42'	16°30'	10°547
M 2	12 40 19	11°59'36	6°28'	25°50'	25°33'	15°52'	2°52'	24°28'	9°32'	14°31'	17°18'	14°D46	13°39'	16°36'	10°48
T 3	12 44 16	12°58'46	20° 6'	27°40'	26°33'	16°36'	2°59'	24°31'	9°32'	14°31'	17°17'	14°46'	13°35'	16°43'	10°50
W 4	12 48 12	13°57'55	3°23'	29°27'	27°34'	17°21'	3° 5'	24°34'	9°33'	14°32'	17°16'	14°47'	13°32'	16°50'	10°52
T 5	12 52 9	14°57'01	16°22'	18°10'	28°35'	18° 6'	3°12'	24°37'	9°33'	14°32'	17°15'	14°R47	13°29'	16°56'	10°54
F 6	12 56 6	15°56'04	29° 7'	2°50'	29°36'	18°51'	3°19'	24°40'	9°34'	14°33'	17°13'	14°46'	13°26'	17° 3'	10°55
S 7	13 0 2	16°55'05	11°38'	4°25'	0°38'	19°35'	3°26'	24°42'	9°34'	14°33'	17°12'	14°43'	13°23'	17°10'	10°57
S 8	13 3 59	17°54'04	24° 0'	5°56'	1°40'	20°20'	3°34'	24°45'	9°34'	14°33'	17°10'	14°37'	13°19'	17°17'	11° 0
M 9	13 7 55	18°53'01	6°14'	7°22'	2°42'	21° 5'	3°41'	24°47'	9°35'	14°34'	17° 9'	14°29'	13°16'	17°23'	11° 2
T 10	13 11 52	19°51'56	18°20'	8°43'	3°45'	21°50'	3°49'	24°50'	9°35'	14°34'	17° 8'	14°18'	13°13'	17°30'	11° 4
W 11	13 15 48	20°50'49	0°21'	9°59'	4°47'	22°35'	3°56'	24°52'	9°35'	14°34'	17° 6'	14° 5'	13°10'	17°37'	11° 6
T 12	13 19 45	21°49'40	12°17'	11° 9'	5°50'	23°20'	4° 4'	24°55'	9°35'	14°34'	17° 5'	13°53'	13° 7'	17°44'	11° 9
F 13	13 23 41	22°48'29	2°10'	12°14'	6°54'	24° 4'	4°12'	24°57'	9°35'	14°34'	17° 3'	13°40'	13° 4'	17°50'	11°11
S 14	13 27 38	23°47'16	6°2'	13°12'	7°57'	24°49'	4°20'	24°59'	9°35'	14°34'	17° 2'	13°30'	13° 0'	17°57'	11°14
S 15	13 31 35	24°46'02	17°55'	14° 5'	9° 1'	25°34'	4°29'	25° 1'	9°35'	14°34'	17° 0'	13°22'	12°57'	18° 4'	11°16
M 16	13 35 31	25°44'45	29°53'	14°52'	10° 5'	26°19'	4°37'	25° 3'	9°35'	14°34'	16°59'	13°16'	12°54'	18°10'	11°19
T 17	13 39 28	26°43'27	11°35'	15°33'	11° 9'	27° 4'	4°45'	25° 4'	9°35'	14°34'	16°57'	13°14'	12°51'	18°17'	11°22
W 18	13 43 24	27°42'08	24°19'	16° 8'	12°14'	27°49'	4°54'	25° 6'	9°35'	14°34'	16°56'	13°D13	12°48'	18°24'	11°25
T 19	13 47 21	28°40'46	6°57'	16°37'	13°18'	28°34'	5° 3'	25° 8'	9°35'	14°34'	16°54'	13°R13	12°45'	18°31'	11°28
F 20	13 51 17	29°39'23	19°58'	17° 0'	14°23'	29°19'	5°12'	25° 9'	9°34'	14°34'	16°52'	13°13'	12°41'	18°37'	11°31
S 21	13 55 14	0°37'59	3°27'	17°16'	15°28'	0°3'	5°21'	25°11'	9°34'	14°34'	16°51'	13°11'	12°38'	18°44'	11°34
S 22	13 59 10	1°36'32	17°24'	17°27'	16°34'	0°48'	5°30'	25°12'	9°34'	14°34'	16°49'	13° 8'	12°35'	18°51'	11°37
M 23	14 3 7	2°35'04	1°51'	17°R31	17°39'	1°33'	5°39'	25°13'	9°33'	14°34'	16°48'	13° 2'	12°32'	18°57'	11°41
T 24	14 7 4	3°33'34	16°43'	17°30'	18°45'	2°18'	5°48'	25°14'	9°33'	14°34'	16°46'	12°53'	12°29'	19° 4'	11°44
W 25	14 11 0	4°32'02	1°53'	17°23'	19°50'	3° 3'	5°58'	25°15'	9°32'	14°33'	16°44'	12°42'	12°25'	19°11'	11°47
T 26	14 14 57	5°30'29	17°10'	17°11'	20°56'	3°48'	6° 7'	25°16'	9°32'	14°33'	16°43'	12°31'	12°22'	19°18'	11°51
F 27	14 18 53	6°28'54	2°22'	16°54'	22° 2'	4°33'	6°17'	25°17'	9°31'	14°33'	16°41'	12°21'	12°19'	19°24'	11°54
S 28	14 22 50	7°27'17	17°24'	16°33'	23° 9'	5°18'	6°27'	25°18'	9°30'	14°32'	16°39'	12°13'	12°16'	19°31'	11°58
S 29	14 26 46	8°25'38	2°1'	16° 7'	24°15'	6° 2'	6°37'	25°19'	9°30'	14°32'	16°38'	12° 7'	12°13'	19°38'	12° 2
M 30	14 30 43	9°23'57	16°12'	15°38'	25°22'	6°47'	6°46'	25°19'	9°29'	14°31'	16°36'	12° 3'	12°10'	19°45'	12° 6

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	♅									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	4n21	27n16	4n 3	9n57	0n42	12s 7	1n18	17s26	1s11	23n29	0n 5	21s 2	0n12	23s24	0s18	21s48	0n52	1s41	15n56	16s24	16s43	21s41	16n15	6s46
M 2	4 45	26 27	3 10	10 49	0 54	11 53	1 12	17 13	1 12	23 29	0 5	21 2	0 12	23 24	0 18	21 48	0 52	1 41	15 56	16 24	16 44	21 43	16 16	6 46
T 3	5 8	24 3	2 8	11 40	1 5	11 38	1 6	17 1	1 12	23 29	0 5	21 1	0 12	23 24	0 18	21 48	0 52	1 40	15 56	16 24	16 45	21 45	16 16	6 45
W 4	5 31	20 23	1 1	12 29	1 17	11 23	0 59	16 48	1 13	23 29	0 5	21 1	0 12	23 24	0 18	21 48	0 52	1 40	15 56	16 24	16 46	21 47	16 17	6 45
T 5	5 53	15 48	0s 8	13 16	1 28	11 8	0 53	16 35	1 14	23 29	0 5	21 1	0 12	23 24	0 18	21 48	0 52	1 39	15 57	16 24	16 47	21 49	16 17	6 44
F 6	6 16	10 36	1 16	14 1	1 39	10 52	0 47	16 22	1 15	23 29	0 5	21 0	0 12	23 24	0 18	21 48	0 52	1 38	15 57	16 24	16 48	21 51	16 17	6 43
S 7	6 39	5 4	2 18	14 43	1 50	10 36	0 41	16 9	1 16	23 29	0 5	21 0	0 12	23 24	0 18	21 48	0 52	1 38	15 57	16 25	16 48	21 53	16 18	6 43
S 8	7 1	0s34	3 13	15 23	2 0	10 20	0 36	15 55	1 16	23 29	0 5	20 59	0 12	23 24	0 18	21 47	0 52	1 37	15 57	16 27	16 49	21 55	16 18	6 42
M 9	7 24	6 7	3 58	16 1	2 10	10 3	0 30	15 42	1 17	23 29	0 5	20 59	0 12	23 24	0 18	21 47	0 52	1 37	15 58	16 29	16 50	21 57	16 19	6 42
T 10	7 46	11 22	4 32	16 36	2 19	9 46	0 24	15 28	1 18	23 29	0 5	20 58	0 12	23 24	0 18	21 47	0 52	1 36	15 58	16 33	16 51	21 58	16 19	6 41
W 11	8 8	16 10	4 53	17 8	2 27	9 28	0 19	15 14	1 19	23 29	0 6	20 58	0 12	23 24	0 18	21 47	0 52	1 36	15 58	16 36	16 52	22 0	16 19	6 41
T 12	8 30	20 18	5 1	17 37	2 34	9 10	0 13	15 0	1 20	23 28	0 6	20 58	0 11	23 24	0 18	21 47	0 52	1 35	15 58	16 40	16 53	22 2	16 20	6 40
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S 14	9 14	25 54	4 39	18 27	2 46	8 33	0 3	14 32	1 21	23 28	0 6	20 57	0 11	23 24	0 18	21 47	0 52	1 34	15 59	16 46	16 55	22 6	16 20	6 39
S 15	9 36	27 2	4 9	18 47	2 51	8 14	0s 2	14 17	1 22	23 28	0 6	20 57	0 11	23 24	0 18	21 47	0 52	1 33	15 59	16 49	16 56	22 8	16 21	6 39
M 16	9 57	26 55	3 28	19 5	2 54	7 34	0 7	14 3	1 23	23 28	0 6	20 57	0 11	23 24	0 18	21 47	0 52	1 33	15 59	16 50	16 57	22 10	16 21	6 38
T 17	10 18	25 31	2 37	19 19	2 57	7 34	0 12	13 48	1 24	23 27	0 6	20 56	0 11	23 24	0 18	21 47	0 52	1 32	15 59	16 51	16 57	22 11	16 21	6 38
W 18	10 39	22 52	1 38	19 30	2 58	7 14	0 17	13 33	1 24	23 27	0 6	20 56	0 11	23 24	0 18	21 47	0 52	1 32	15 59	16 51	16 58	22 13	16 22	6 37
T 19	11 0	19 4	0 33	19 39	2 58	6 54	0 22	13 18	1 25	23 27	0 6	20 56	0 11	23 24	0 18	21 47	0 52	1 31	15 59	16 51	16 59	22 15	16 22	6 36
F 20	11 21	14 16	0n36	19 44	2 57	6 33	0 26	13 3	1 26	23 27	0 6	20 56	0 11	23 24	0 18	21 47	0 52	1 31	16 0	16 51	17 0	22 17	16 22	6 36
S 21	11 42	8 37	1 45	19 46	2 54	6 12	0 31	12 48	1 27	23 27	0 6	20 55	0 11	23 24	0 18	21 47	0 52	1 30	16 0	16 52	17 1	22 19	16 22	6 35
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M 23	12 22	4n12	3 47	19 42	2 45	5 29	0 40	12 18	1 28	23 26	0 7	20 55	0 11	23 24	0 18	21 47	0 52	1 29	16 0	16 54	17 3	22 22	16 23	6 34
T 24	12 42	10 43	4 30	19 36	2 39	5 8	0 44	12 2	1 29	23 26	0 7	20 55	0 11	23 24	0 18	21 47	0 52	1 28	16 0	16 57	17 4	22 24	16 23	6 34
W 25	13 2	16 44	4 55	19 26	2 31	4 45	0 48	11 47	1 30	23 25	0 7	20 55	0 11	23 24	0 18	21 47	0 52	1 28	16 0	17 0	17 5	22 26	16 23	6 33
T 26	13 22	21 45	4 59	19 14	2 22	4 23	0 52	11 31	1 30	23 25	0 7	20 55	0 11	23 24	0 18	21 47	0 52	1 27	16 0	17 3	17 6	22 28	16 23	6 33
F 27	13 41	25 15	4 42	18 59	2 11	4 1	0 56	11 16	1 31	23 25	0 7	20 55	0 11	23 24	0 18	21 47	0 52	1 27	16 0	17 6	17 6	22 29	16 24	6 32
S 28	14 0	26 56	4 6	18 41	1 59	3 38	0 59	11 0	1 32	23 24	0 7	20 55	0 10	23 25	0 18	21 47	0 52	1 27	16 0	17 8	17 7	22 31	16 24	6 32
S 29	14 19	26 40	3 14	18 22	1 47	3 15	1 3	10 44	1 33	23 24	0 7	20 54	0 10	23 25	0 19	21 47								

SWISS EPHEMERIS for the year 1990

MAY 1990

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	14 34 39	10♌22'13	29♌55	15°R 5	26♌28	7♌32	6♌57	25♌20	9°R28	14°R31	16°R34	12°R 2	12♌ 6	19♌51	12♌ 9	
W 2	14 38 36	11°20'28	13♌13	14♌30	27°35	8°17	7° 7	25°20	9♌27	14♌31	16♌33	12♌ 2	12° 3	19°58	12°13	
T 3	14 42 33	12°18'40	26° 8	13°54	28°42	9° 2	7°17	25°20	9°26	14°30	16°31	12° 2	12° 0	20° 5	12°17	
F 4	14 46 29	13°16'51	8♌45	13°16	29°49	9°46	7°27	25°20	9°25	14°30	16°29	12° 0	11°57	20°11	12°21	
S 5	14 50 26	14°14'59	21° 7	12°38	0♌56	10°31	7°38	25°R20	9°24	14°29	16°28	11°56	11°54	20°18	12°26	
S 6	14 54 22	15°13'06	3♌18	12° 0	2° 4	11°16	7°48	25°20	9°23	14°28	16°26	11°50	11°51	20°25	12°30	
M 7	14 58 19	16°11'10	15°22	11°23	3°11	12° 1	7°59	25°20	9°22	14°28	16°24	11°40	11°47	20°32	12°34	
T 8	15 2 15	17° 9'13	27°20	10°48	4°19	12°45	8°10	25°20	9°21	14°27	16°23	11°28	11°44	20°38	12°38	
W 9	15 6 12	18° 7'15	9♌15	10°15	5°26	13°30	8°20	25°20	9°20	14°26	16°21	11°15	11°41	20°45	12°43	
T 10	15 10 8	19° 5'14	21° 8	9°44	6°34	14°15	8°31	25°19	9°19	14°26	16°19	11° 1	11°38	20°52	12°47	
F 11	15 14 5	20° 3'12	3♌ 0	9°17	7°42	14°59	8°42	25°19	9°17	14°25	16°18	10°47	11°35	20°58	12°52	
S 12	15 18 2	21° 1'09	14°54	8°53	8°50	15°44	8°53	25°18	9°16	14°24	16°16	10°36	11°31	21° 5	12°56	
S 13	15 21 58	21°59'04	26°50	8°33	9°58	16°29	9° 4	25°17	9°15	14°23	16°14	10°26	11°28	21°12	13° 1	
M14	15 25 55	22°56'58	8♌51	8°17	11° 7	17°13	9°16	25°16	9°13	14°22	16°13	10°20	11°25	21°19	13° 6	
T 15	15 29 51	23°54'50	21° 1	8° 5	12°15	17°58	9°27	25°15	9°12	14°22	16°11	10°16	11°22	21°25	13°10	
W16	15 33 48	24°52'41	3♌22	7°58	13°23	18°42	9°38	25°14	9°10	14°21	16° 9	10°15	11°19	21°32	13°15	
T 17	15 37 44	25°50'31	16° 0	7°D55	14°32	19°27	9°50	25°13	9° 9	14°20	16° 8	10°D15	11°16	21°39	13°20	
F 18	15 41 41	26°48'20	28°58	7°57	15°40	20°11	10° 1	25°12	9° 7	14°19	16° 6	10°R15	11°12	21°46	13°25	
S 19	15 45 37	27°46'08	12♌20	8° 3	16°49	20°56	10°13	25°11	9° 6	14°18	16° 4	10°14	11° 9	21°52	13°30	
S 20	15 49 34	28°43'54	26°10	8°14	17°58	21°40	10°24	25° 9	9° 4	14°17	16° 3	10°12	11° 6	21°59	13°35	
M21	15 53 31	29°41'39	10♌27	8°30	19° 7	22°25	10°36	25° 8	9° 2	14°16	16° 1	10° 7	11° 3	22° 6	13°40	
T 22	15 57 27	0♌39'24	25°12	8°50	20°16	23° 9	10°48	25° 6	9° 1	14°15	15°59	9°59	11° 0	22°12	13°45	
W23	16 1 24	1°37'07	10♌16	9°14	21°25	23°53	11° 0	25° 5	8°59	14°14	15°58	9°50	10°57	22°19	13°50	
T 24	16 5 20	2°34'49	25°32	9°43	22°34	24°38	11°12	25° 3	8°57	14°13	15°56	9°40	10°53	22°26	13°55	
F 25	16 9 17	3°32'30	10♌49	10°16	23°43	25°22	11°24	25° 1	8°55	14°12	15°55	9°31	10°50	22°33	14° 1	
S 26	16 13 13	4°30'10	25°55	10°52	24°53	26° 6	11°36	24°59	8°53	14°10	15°53	9°24	10°47	22°39	14° 6	
S 27	16 17 10	5°27'48	10♌42	11°33	26° 2	26°51	11°48	24°57	8°52	14° 9	15°51	9°18	10°44	22°46	14°11	
M28	16 21 6	6°25'25	25° 3	12°17	27°11	27°35	12° 0	24°55	8°50	14° 8	15°50	9°15	10°41	22°53	14°17	
T 29	16 25 3	7°23'01	8♌55	13° 5	28°21	28°19	12°12	24°53	8°48	14° 7	15°48	9°D15	10°37	22°59	14°22	
W30	16 29 0	8°20'35	22°19	13°57	29°30	29° 3	12°24	24°51	8°46	14° 6	15°47	9°15	10°34	23° 6	14°28	
T 31	16 32 56	9♌18'08	5♌17	14♌52	0♌40	29♌47	12♌37	24♌48	8♌44	14♌ 4	15♌45	9°R16	10♌31	23♌13	14♌33	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
T 1	14n56	21n12	1n 4	17n36	1n18	2s29	1s10	10s12	1s34	23n23	0n 7	20s54	0n10	23s25	0s19	21s47	0n52	1s25	16n 0	17s11	17s10	22s37	16n24	6s31
W 2	15 14	16 45	0s 6	17 11	1 2	2 5	1 13	9 56	1 35	23 22	0 7	20 54	0 10	23 25	0 19	21 47	0 52	1 25	16 0	17 11	17 11	22 38	16 24	6 30
T 3	15 32	11 39	1 14	16 44	0 46	1 41	1 17	9 40	1 35	23 22	0 7	20 54	0 10	23 25	0 19	21 47	0 52	1 24	16 0	17 11	17 12	22 40	16 24	6 30
F 4	15 50	6 11	2 16	16 17	0 29	1 18	1 20	9 23	1 36	23 22	0 8	20 54	0 10	23 25	0 19	21 47	0 52	1 24	16 0	17 12	17 13	22 42	16 24	6 29
S 5	16 7	0 36	3 11	15 49	0 12	0 54	1 23	9 7	1 37	23 21	0 8	20 55	0 10	23 25	0 19	21 47	0 52	1 23	16 0	17 13	17 14	22 43	16 25	6 29
S 6	16 24	4s55	3 55	15 21	0s 6	0 29	1 26	8 51	1 38	23 20	0 8	20 55	0 10	23 25	0 19	21 47	0 52	1 23	16 0	17 15	17 14	22 45	16 25	6 28
M 7	16 41	10 11	4 29	14 53	0 23	0 5	1 29	8 34	1 38	23 20	0 8	20 55	0 10	23 25	0 19	21 48	0 52	1 23	16 0	17 17	17 15	22 47	16 25	6 28
T 8	16 57	15 2	4 51	14 26	0 40	0n19	1 31	8 18	1 39	23 19	0 8	20 55	0 10	23 25	0 19	21 48	0 52	1 22	16 0	17 21	17 16	22 49	16 25	6 28
W 9	17 14	19 18	4 59	13 59	0 57	0 44	1 34	8 1	1 40	23 19	0 8	20 55	0 10	23 26	0 19	21 48	0 52	1 22	16 0	17 24	17 17	22 50	16 25	6 27
T 10	17 30	22 47	4 55	13 34	1 14	1 8	1 36	7 45	1 40	23 18	0 8	20 55	0 10	23 26	0 19	21 48	0 52	1 21	16 0	17 28	17 18	22 52	16 25	6 27
F 11	17 45	25 18	4 38	13 10	1 30	1 33	1 39	7 28	1 41	23 18	0 8	20 55	0 10	23 26	0 19	21 48	0 52	1 21	16 0	17 32	17 19	22 54	16 25	6 26
S 12	18 1 26	42 4	4 8	12 48	1 45	1 58	1 41	7 11	1 42	23 17	0 8	20 55	0 10	23 26	0 19	21 48	0 52	1 21	16 0	17 35	17 20	22 55	16 25	6 26
S 13	18 16	26 52	3 28	12 28	1 59	2 22	1 43	6 54	1 42	23 16	0 8	20 56	0 9	23 26	0 19	21 48	0 52	1 20	16 0	17 37	17 21	22 57	16 25	6 25
M14	18 31	25 46	2 38	12 10	2 13	2 47	1 45	6 38	1 43	23 16	0 8	20 56	0 9	23 26	0 19	21 48	0 52	1 20	16 0	17 39	17 21	22 59	16 25	6 25
T 15	18 45	23 27	1 40	11 55	2 25	3 12	1 47	6 21	1 43	23 15	0 9	20 56	0 9	23 26	0 19	21 48	0 52	1 20	16 0	17 40	17 22	23 0	16 25	6 25
W16	18 59	20 0	0 36	11 41	2 37	3 37	1 49	6 4	1 44	23 14	0 9	20 56	0 9	23 26	0 19	21 48	0 52	1 19	15 59	17 41	17 23	23 2	16 24	6 24
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S 19	19 40	4 27	2 41	11 16	3 6	4 52	1 54	5 13	1 46	23 12	0 9	20 57	0 9	23 27	0 19	21 48	0 52	1 18	15 59	17 41	17 26	23 7	16 24	6 23
S 20	19 53	1n49	3 38	11 12	3 13	5 17	1 55	4 56	1 47	23 11	0 9	20 57	0 9	23 27	0 19	21 48	0 52	1 18	15 59	17 41	17 27	23 9	16 24	6 23
M21	20 5 8	10 4	3 23	11 11	3 20	5 42	1 56	4 39	1 47	23 10	0 9	20 58	0 9	23 27	0 19	21 49	0 52	1 18	15 59	17 43	17 28	23 10	16 24	6 23
T 22	20 17	14 17	4 52	11 12	3 25	6 6	1 57	4 22	1 48	23 9	0 9	20 58	0 9	23 27	0 19	21 49	0 52	1 18	15 58	17 45	17 28	23 12	16 24	6 22
W23	20 29	19 41	5 2	11 16	3 30	6 31	1 58	4 5	1 48	23 8	0 9	20 59	0 9	23 27	0 19	21 49	0 52	1 17	15 58	17 47	17 29	23 13	16 23	6 22
T 24	20 41	23 51	4 51	11 21	3 33	6 56	1 59	3 48	1 49	23 7	0 9	20 59	0 9	23 27	0 19	21 49	0 52	1 17	15 58	17 50	17 30	23 15	16 23	6 22
F 25	20 52	26 20	4 19	11 29	3 36	7 21	2 0	3 31	1 49	23 7	0 9	20 59	0 9	23 28	0 19	21 49	0 52	1 17	15 58	17 52	17 31	23 17	16 23	6 21
S 26	21 3 26	52 3 29	11 39	3 37	7 45	2 1	3 14	1 50	23 6	0 9	21 0	0 9	23 28	0 19	21 49	0 52	1 17	15 58	17 54	17 32	23 18	16 23	6 21	
S 27	21 13	25 26	2 26	11 50	3 38	8 10	2 2	2 57	1 50	23 5	0 10	21 0	0 8	23 28	0 19	21 49	0 52	1 17	15 57	17 56	17 33	23 20	16 23	6 21
M28	21 23	22 21	1 15	12 4	3 38	8 34	2 2	2 40	1 51	23 4	0 10	21 1	0 8	23 28	0 19	21 49	0 52	1 16	15 5					

SWISS EPHEMERIS for the year 1990

JUNE 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	16 36 53	10II15'39	17III55	15♂50	1♂50	0♂31	12♂49	24°R46	8°R42	14°R 3	15°R44	9°R15	10♂28	23III20	14♂39	
S 2	16 40 49	11°13'09	0♂15	16°52	2°59	1°15	13° 1	24♂43	8♂40	14♂ 2	15III42	9♂13	10°25	23°26	14°44	
S 3	16 44 46	12°10'37	12°22	17°57	4° 9	1°59	13°14	24°41	8°38	14° 1	15°41	9° 9	10°22	23°33	14°50	
M 4	16 48 42	13° 8'05	24°22	19° 5	5°19	2°42	13°26	24°38	8°36	13°59	15°39	9° 3	10°18	23°40	14°56	
T 5	16 52 39	14° 5'31	6III16	20°16	6°29	3°26	13°39	24°35	8°33	13°58	15°38	8°55	10°15	23°47	15° 1	
W 6	16 56 35	15° 2'56	18° 8	21°31	7°39	4°10	13°52	24°32	8°31	13°57	15°37	8°45	10°12	23°53	15° 7	
T 7	17 0 32	16° 0'21	0♂1 0	22°48	8°49	4°54	14° 4	24°29	8°29	13°55	15°35	8°35	10° 9	24° 0	15°13	
F 8	17 4 29	16°57'44	11°55	24° 8	9°59	5°37	14°17	24°26	8°27	13°54	15°34	8°26	10° 6	24° 7	15°19	
S 9	17 8 25	17°55'06	23°53	25°31	11° 9	6°21	14°30	24°23	8°25	13°52	15°32	8°17	10° 3	24°13	15°25	
S 10	17 12 22	18°52'28	5♂57	26°57	12°19	7° 4	14°42	24°20	8°23	13°51	15°31	8°11	9°59	24°20	15°31	
M11	17 16 18	19°49'49	18° 7	28°26	13°30	7°48	14°55	24°17	8°20	13°50	15°30	8° 7	9°56	24°27	15°37	
T 12	17 20 15	20°47'09	0♂26	29°58	14°40	8°31	15° 8	24°14	8°18	13°48	15°28	8° 5	9°53	24°34	15°43	
W13	17 24 11	21°44'29	12°57	1II33	15°50	9°14	15°21	24°11	8°16	13°47	15°27	8°D 5	9°50	24°40	15°49	
T 14	17 28 8	22°41'48	25°42	3°10	17° 1	9°58	15°34	24° 7	8°13	13°45	15°26	8° 6	9°47	24°47	15°55	
F 15	17 32 4	23°39'07	8♂43	4°50	18°11	10°41	15°47	24° 4	8°11	13°44	15°25	8° 7	9°43	24°54	16° 1	
S 16	17 36 1	24°36'26	22° 5	6°33	19°22	11°24	16° 0	24° 0	8° 9	13°42	15°23	8°R 8	9°40	25° 0	16° 7	
S 17	17 39 58	25°33'44	5♂49	8°19	20°33	12° 7	16°13	23°57	8° 6	13°41	15°22	8° 7	9°37	25° 7	16°13	
M18	17 43 54	26°31'01	19°57	10° 7	21°43	12°50	16°26	23°53	8° 4	13°39	15°21	8° 5	9°34	25°14	16°19	
T 19	17 47 51	27°28'19	4♂26	11°58	22°54	13°33	16°39	23°49	8° 2	13°38	15°20	8° 1	9°31	25°21	16°25	
W20	17 51 47	28°25'36	19°16	13°52	24° 5	14°16	16°52	23°45	7°59	13°36	15°19	7°56	9°28	25°27	16°31	
T 21	17 55 44	29°22'54	4II14	15°48	25°16	14°59	17° 5	23°42	7°57	13°35	15°18	7°51	9°24	25°34	16°37	
F 22	17 59 40	0♂20'11	19°17	17°46	26°26	15°41	17°19	23°38	7°54	13°33	15°17	7°45	9°21	25°41	16°44	
S 23	18 3 37	1°17'27	4♂15	19°47	27°37	16°24	17°32	23°34	7°52	13°31	15°16	7°41	9°18	25°47	16°50	
S 24	18 7 34	2°14'43	18°57	21°50	28°48	17° 6	17°45	23°30	7°50	13°30	15°15	7°38	9°15	25°54	16°56	
M25	18 11 30	3°11'59	3♂18	23°54	29°59	17°49	17°58	23°26	7°47	13°28	15°14	7°D37	9°12	26° 1	17° 2	
T 26	18 15 27	4° 9'14	17°14	26° 1	1II10	18°31	18°12	23°22	7°45	13°27	15°13	7°37	9° 9	26° 8	17° 9	
W27	18 19 23	5° 6'29	0III43	28° 9	2°21	19°13	18°25	23°18	7°42	13°25	15°12	7°38	9° 5	26°14	17°15	
T 28	18 23 20	6° 3'43	13°47	0♂17	3°33	19°56	18°38	23°14	7°40	13°24	15°11	7°40	9° 2	26°21	17°21	
F 29	18 27 16	7° 0'56	26°28	2°27	4°44	20°38	18°51	23°10	7°38	13°22	15°10	7°41	8°59	26°28	17°28	
S 30	18 31 13	7♂58'09	8♂51	4♂38	5II55	21°V20	19♂ 5	23♂ 5	7♂35	13♂20	15III 9	7°R42	8♂56	26III34	17♂34	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	21n59	1n51	3s11	13n13	3s30	10n10	2s 4	1s31	1s53	22n59	0n10	21s 3	0n 8	23s29	0s19	21s50
S 2	22 8	3s44	3 58	13 35	3 26	10 34	2 4	1 14	1 54	22 58	0 10	21 3	0 8	23 29	0 19	21 50
S 3	22 15	9 4	4 33	13 57	3 22	10 58	2 4	0 57	1 54	22 57	0 10	21 4	0 8	23 29	0 19	21 50
M 4	22 23	14 1	4 55	14 20	3 17	11 21	2 4	0 40	1 54	22 56	0 10	21 4	0 8	23 29	0 19	21 50
T 5	22 30	18 24	5 5	14 45	3 11	11 44	2 4	0 24	1 55	22 55	0 10	21 5	0 8	23 29	0 19	21 50
W 6	22 36	22 3	5 1	15 10	3 5	12 7	2 3	0 7	1 55	22 54	0 10	21 5	0 8	23 29	0 19	21 50
T 7	22 42	24 47	4 44	15 36	2 58	12 30	2 3	0n10	1 56	22 52	0 10	21 6	0 8	23 29	0 19	21 51
F 8	22 48	26 26	4 15	16 3	2 50	12 52	2 3	0 27	1 56	22 51	0 11	21 7	0 8	23 30	0 19	21 51
S 9	22 54	26 52	3 35	16 31	2 42	13 14	2 2	0 44	1 57	22 50	0 11	21 7	0 8	23 30	0 19	21 51
S 10	22 59	26 2	2 44	16 59	2 34	13 36	2 2	1 1	1 57	22 48	0 11	21 8	0 7	23 30	0 19	21 51
M11	23 3 23	57 1	4 5	17 28	2 25	13 58	2 1	1 18	1 57	22 47	0 11	21 8	0 7	23 30	0 19	21 51
T 12	23 7 20	44 0	4 1	17 56	2 15	14 20	2 0	1 34	1 58	22 46	0 11	21 9	0 7	23 30	0 19	21 51
W13	23 11 16	31 0n26	18 25	2 6	14 41	1 59	1 59	1 51	1 58	22 44	0 11	21 10	0 7	23 30	0 19	21 51
T 14	23 14 11	29 1	3 4	18 54	1 56	15 2	1 58	2 8	1 59	22 43	0 11	21 10	0 7	23 31	0 19	21 52
F 15	23 17 5 51	2 38	19 23	1 45	15 22	1 57	2 24	1 59	22 42	0 11	21 11	0 7	23 31	0 19	21 52	
S 16	23 20 0n10	3 35	19 51	1 34	15 42	1 56	2 41	1 59	22 40	0 11	21 12	0 7	23 31	0 19	21 52	
S 17	23 22 6 19	4 22	20 19	1 23	16 2	1 55	2 57	2 0	22 39	0 11	21 12	0 7	23 31	0 19	21 52	
M18	23 24 12 20	4 54	20 47	1 12	16 22	1 54	3 14	2 0	22 37	0 11	21 13	0 7	23 31	0 19	21 52	
T 19	23 25 17 51	5 9	21 13	1 1	16 41	1 53	3 30	2 0	22 36	0 11	21 14	0 7	23 31	0 19	21 52	
W20	23 26 22 24	5 4	21 39	0 49	17 0	1 51	3 46	2 1	22 34	0 12	21 15	0 7	23 32	0 19	21 53	
T 21	23 26 25 32	4 38	22 3	0 38	17 18	1 50	4 3	2 1	22 32	0 12	21 15	0 7	23 32	0 19	21 53	
F 22	23 26 26 52	3 53	22 26	0 26	17 36	1 48	4 19	2 1	22 31	0 12	21 16	0 6	23 32	0 20	21 53	
S 23	23 26 26 14	2 52	22 48	0 15	17 54	1 47	4 35	2 1	22 29	0 12	21 17	0 6	23 32	0 20	21 53	
S 24	23 25 23 45	1 40	23 8	0 4	18 11	1 45	4 51	2 2	22 28	0 12	21 18	0 6	23 32	0 20	21 53	
M25	23 24 19 48	0 24	23 25	0n 7	18 28	1 43	5 7	2 2	22 26	0 12	21 18	0 6	23 32	0 20	21 53	
T 26	23 23 14 50	0s52	23 41	0 18	18 44	1 42	5 23	2 2	22 24	0 12	21 19	0 6	23 32	0 20	21 53	
W27	23 21 9 18	2 3	23 54	0 28	19 0	1 40	5 38	2 2	22 23	0 12	21 20	0 6	23 33	0 20	21 54	
T 28	23 18 3 32	3 5	24 5	0 38	19 16	1 38	5 54	2 3	22 21	0 12	21 21	0 6	23 33	0 20	21 54	
F 29	23 15 2s12	3 56	24 13	0 48	19 31	1 36	6 10	2 3	22 19	0 12	21 21	0 6	23 33	0 20	21 54	
S 30	23n12	7s43	4s34	24n19	0n57	19n45	1s34	6n25	2s 3	22n17	0n12	21s22	0n 6	23s33	0s20	21s54

Julian Day Number = 2448043.5, Delta T = 57.14 sec  
 Ecliptic obliquity = 23°26'32", Nutation = 0°00'12"  
 Ayanamsha: Fagan/Bradley = 24°36'23", Lahiri = 23°43'23"

SWISS EPHEMERIS for the year 1990

JULY 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	18 35 9	8♄55'22	21♂ 0	6♄49	7♂ 6	22♂ 1	19♄18	23°R 1	7°R33	13°R19	15°R 8	7°R41	8♄53	26♂41	17♄40	
M 2	18 39 6	9°52'34	2♂59	8°59	8°18	22°43	19°32	22♂57	7♂30	13♂17	15♂ 8	7♄39	8°49	26°48	17°47	
T 3	18 43 3	10°49'46	14°52	11°10	9°29	23°25	19°45	22°53	7°28	13°15	15° 7	7°36	8°46	26°55	17°53	
W 4	18 46 59	11°46'58	26°44	13°20	10°40	24° 6	19°58	22°48	7°25	13°14	15° 6	7°32	8°43	27° 1	18° 0	
T 5	18 50 56	12°44'09	8♄38	15°30	11°52	24°48	20°12	22°44	7°23	13°12	15° 5	7°28	8°40	27° 8	18° 6	
F 6	18 54 52	13°41'21	20°37	17°38	13° 3	25°29	20°25	22°40	7°21	13°11	15° 5	7°24	8°37	27°15	18°12	
S 7	18 58 49	14°38'32	2♂42	19°46	14°15	26°11	20°39	22°35	7°18	13° 9	15° 4	7°21	8°34	27°22	18°19	
S 8	19 2 45	15°35'43	14°56	21°52	15°26	26°52	20°52	22°31	7°16	13° 7	15° 4	7°18	8°30	27°28	18°25	
M 9	19 6 42	16°32'55	27°20	23°56	16°38	27°33	21° 5	22°27	7°13	13° 6	15° 3	7°17	8°27	27°35	18°32	
T 10	19 10 38	17°30'06	9♄55	26° 0	17°50	28°14	21°19	22°22	7°11	13° 4	15° 2	7°D17	8°24	27°42	18°38	
W 11	19 14 35	18°27'18	22°43	28° 1	19° 1	28°54	21°32	22°18	7° 9	13° 2	15° 2	7°17	8°21	27°48	18°45	
T 12	19 18 32	19°24'30	5♄44	0♂ 1	20°13	29°35	21°46	22°13	7° 6	13° 1	15° 1	7°18	8°18	27°55	18°51	
F 13	19 22 28	20°21'43	18°59	1°59	21°25	0♂16	21°59	22° 9	7° 4	12°59	15° 1	7°20	8°15	28° 2	18°58	
S 14	19 26 25	21°18'56	2♂30	3°55	22°37	0°56	22°13	22° 4	7° 1	12°58	15° 1	7°21	8°11	28° 9	19° 4	
S 15	19 30 21	22°16'09	16°16	5°50	23°49	1°36	22°26	22° 0	6°59	12°56	15° 0	7°R21	8° 8	28°15	19°10	
M 16	19 34 18	23°13'23	0♂19	7°42	25° 1	2°17	22°40	21°56	6°57	12°54	15° 0	7°21	8° 5	28°22	19°17	
T 17	19 38 14	24°10'38	14°35	9°33	26°13	2°57	22°53	21°51	6°55	12°53	14°59	7°21	8° 2	28°29	19°23	
W 18	19 42 11	25° 7'54	29° 4	11°22	27°25	3°37	23° 7	21°47	6°52	12°51	14°59	7°20	7°59	28°35	19°30	
T 19	19 46 7	26° 5'10	13♂41	13° 9	28°37	4°16	23°20	21°42	6°50	12°50	14°59	7°18	7°55	28°42	19°36	
F 20	19 50 4	27° 2'27	28°20	14°55	29°49	4°56	23°34	21°38	6°48	12°48	14°59	7°17	7°52	28°49	19°43	
S 21	19 54 1	27°59'45	12♄55	16°38	1♄ 1	5°35	23°47	21°33	6°46	12°47	14°59	7°16	7°49	28°56	19°49	
S 22	19 57 57	28°57'03	27°20	18°20	2°13	6°15	24° 0	21°29	6°43	12°45	14°58	7°16	7°46	29° 2	19°56	
M 23	20 1 54	29°54'22	11♂29	19°59	3°26	6°54	24°14	21°25	6°41	12°44	14°58	7°D16	7°43	29° 9	20° 2	
T 24	20 5 50	0♂51'41	25°19	21°37	4°38	7°33	24°27	21°20	6°39	12°42	14°58	7°16	7°40	29°16	20° 8	
W 25	20 9 47	1°49'01	8♂46	23°13	5°50	8°12	24°41	21°16	6°37	12°40	14°58	7°16	7°36	29°22	20°15	
T 26	20 13 43	2°46'21	21°51	24°48	7° 3	8°51	24°54	21°12	6°35	12°39	14°D58	7°17	7°33	29°29	20°21	
F 27	20 17 40	3°43'41	4♂34	26°20	8°15	9°29	25° 7	21° 7	6°33	12°37	14°58	7°17	7°30	29°36	20°28	
S 28	20 21 36	4°41'02	17° 0	27°51	9°28	10° 7	25°21	21° 3	6°31	12°36	14°58	7°18	7°27	29°43	20°34	
S 29	20 25 33	5°38'24	29°10	29°19	10°40	10°46	25°34	20°59	6°29	12°35	14°58	7°18	7°24	29°49	20°40	
M 30	20 29 30	6°35'45	11♂10	0♂46	11°53	11°24	25°48	20°55	6°27	12°33	14°58	7°R18	7°21	29°56	20°47	
T 31	20 33 26	7♂33'08	23♂ 4	2♂11	13♄ 5	12♂ 1	26♄ 1	20♂51	6♂25	12♂32	14♂59	7°D18	7♄17	0♂ 3	20♄53	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
S 1	23n 8	12s49	5s 0	24n21	1n 5	19n59	1s32	6n41	2s 3	22n15	0n12	21s23	0n 6	23s33	0s20	21s54	0n53	1s18	15n44	18s21	18s 2	24s11	16n 5	6s14
M 2	23 4	17 23	5 12	24 21	1 13	20 13	1 30	6 56	2 3	22 14	0 13	21 24	0 6	23 33	0 20	21 54	0 53	1 18	15 44	18 22	18 3	24 12	16 4	6 14
T 3	23 0	21 14	5 10	24 18	1 20	20 26	1 28	7 11	2 3	22 12	0 13	21 25	0 6	23 33	0 20	21 55	0 53	1 18	15 43	18 22	18 4	24 13	16 4	6 14
W 4	22 55	24 13	4 56	24 12	1 26	20 38	1 25	7 26	2 3	22 10	0 13	21 25	0 5	23 34	0 20	21 55	0 52	1 18	15 43	18 23	18 5	24 15	16 3	6 14
T 5	22 50	26 10	4 28	24 4	1 32	20 50	1 23	7 41	2 4	22 8	0 13	21 26	0 5	23 34	0 20	21 55	0 52	1 19	15 42	18 24	18 6	24 16	16 2	6 14
F 6	22 44	26 55	3 49	23 53	1 37	21 2	1 21	7 56	2 4	22 6	0 13	21 27	0 5	23 34	0 20	21 55	0 52	1 19	15 42	18 25	18 7	24 17	16 1	6 14
S 7	22 38	26 24	2 59	23 39	1 41	21 13	1 19	8 11	2 4	22 4	0 13	21 28	0 5	23 34	0 20	21 55	0 52	1 19	15 41	18 26	18 7	24 19	16 0	6 14
S 8	22 32	24 35	2 0	23 23	1 44	21 23	1 16	8 26	2 4	22 2	0 13	21 29	0 5	23 34	0 20	21 55	0 52	1 20	15 41	18 27	18 8	24 20	16 0	6 14
M 9	22 25	21 35	0 55	23 5	1 47	21 33	1 14	8 40	2 4	22 0	0 13	21 29	0 5	23 34	0 20	21 56	0 52	1 20	15 40	18 27	18 9	24 21	15 9	6 14
T 10	22 18	17 32	0n15	22 44	1 49	21 42	1 12	8 55	2 4	21 58	0 13	21 30	0 5	23 34	0 20	21 56	0 52	1 20	15 40	18 27	18 10	24 23	15 8	6 14
W 11	22 10	12 37	1 24	22 21	1 50	21 50	1 9	9 9	2 4	21 56	0 13	21 31	0 5	23 35	0 20	21 56	0 52	1 21	15 39	18 27	18 11	24 24	15 7	6 14
T 12	22 2	7 5	2 31	21 57	1 51	21 59	1 7	9 24	2 4	21 54	0 13	21 32	0 5	23 35	0 20	21 56	0 52	1 21	15 39	18 27	18 12	24 25	15 6	6 14
F 13	21 54	1 8	3 30	21 31	1 50	22 6	1 4	9 38	2 4	21 52	0 14	21 33	0 5	23 35	0 20	21 56	0 52	1 21	15 38	18 26	18 12	24 26	15 5	6 14
S 14	21 45	4n58	4 19	21 3	1 49	22 13	1 1	9 52	2 4	21 50	0 14	21 33	0 5	23 35	0 20	21 57	0 52	1 22	15 38	18 26	18 13	24 28	15 4	6 14
S 15	21 36	10 56	4 55	20 34	1 48	22 19	0 59	10 6	2 4	21 48	0 14	21 34	0 5	23 35	0 20	21 57	0 52	1 22	15 37	18 26	18 14	24 29	15 3	6 14
M 16	21 27	16 28	5 14	20 3	1 46	22 25	0 56	10 20	2 4	21 46	0 14	21 35	0 4	23 35	0 20	21 57	0 52	1 23	15 37	18 26	18 15	24 30	15 3	6 14
T 17	21 17	21 12	5 13	19 31	1 43	22 30	0 54	10 33	2 4	21 44	0 14	21 36	0 4	23 35	0 20	21 57	0 52	1 23	15 36	18 26	18 16	24 31	15 2	6 15
W 18	21 7	24 44	4 54	18 58	1 40	22 34	0 51	10 47	2 4	21 42	0 14	21 37	0 4	23 35	0 20	21 57	0 52	1 24	15 35	18 26	18 17	24 33	15 1	6 15
T 19	20 56	26 40	4 15	18 24	1 36	22 38	0 48	11 0	2 4	21 39	0 14	21 37	0 4	23 36	0 20	21 57	0 52	1 24	15 35	18 27	18 17	24 34	15 0	6 15
F 20	20 45	26 45	3 19	17 49	1 31	22 41	0 46	11 14	2 4	21 37	0 14	21 38	0 4	23 36	0 20	21 58	0 52	1 25	15 34	18 27	18 18	24 35	15 4	6 15
S 21	20 34	24 59	2 11	17 14	1 27	22 43	0 43	11 27	2 3	21 35	0 14	21 39	0 4	23 36	0 20	21 58	0 52	1 25	15 34	18 27	18 19	24 36	15 4	6 15
S 22	20 22	21 35	0 55	16 37	1 21	22 45	0 40	11 40	2 3	21 33	0 14	21 40	0 4	23 36	0 20	21 58	0 52	1 26	15 33	18 28	18 20	24 37	15 4	6 15
M 23	20 10	16 58	0s23	16 1	1 15	22 46	0 38	11 53	2 3	21 30	0 14	21 41	0 4	23 36	0 20	21 58	0 52	1 26	15 33	18 28	18 21	24 39	15 4	6 15
T 24	19 58	11 32	1 38	15 23	1 9	22 47	0 35	12 5	2 3	21 28	0 15	21 41	0 4	23 36	0 20	21 58	0 52	1 27	15 32	18 27	18 21	24 40	15 4	6 15
W 25	19 45	5 43	2 46	14 46	1 2	22 47	0 32	12 18	2 3	21 26	0 15	21 42	0 4	23 36	0 20	21 58	0 52	1 27	15 32	18 27	18 22	24 41	15 4	6 15
T 26	19 33	0s11	3 43	14 8	0 55	22 46	0 29	12 31	2 3	21 24	0 15	21 43	0 4	23 36	0 20	21 58	0 52	1 28	15 31	18 27	18 23	24 42	15 4	6 15
F 27	19 19	5 54	4 27	13 30	0 48	22 45	0 27	12 43	2 3	21 21	0 15	21 44	0 3	23 37	0 20	21 59	0 52	1 28	15 30	18 27	18 24	24 43	15 4	6 16
S 28	19 6	11 15	4 57	12 51	0 40	22 43	0 24	12 55	2 2	21 19	0 15	21 44	0 3	23 37	0 20	21 59	0 52	1 29	15 30	18 27				

SWISS EPHEMERIS for the year 1990

AUGUST 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	20 37 23	8♄30'31	4♃57	3♄34	14♁18	12♂39	26♁14	20°R46	6°R23	12°R30	14♄59	7♁18	7♁14	0♃9	20♁59
T 2	20 41 19	9°27'55	16°53	4°55	15°30	13°17	26°27	20♁42	6♁21	12♁29	14°59	7°18	7°11	0°16	21°5
F 3	20 45 16	10°25'19	28°55	6°14	16°43	13°54	26°41	20°38	6°19	12°27	14°59	7°18	7°8	0°23	21°12
S 4	20 49 12	11°22'44	11♁7	7°31	17°56	14°31	26°54	20°34	6°17	12°26	14°59	7°19	7°5	0°30	21°18
S 5	20 53 9	12°20'10	23°32	8°46	19°9	15°8	27°7	20°30	6°15	12°25	15°0	7°19	7°1	0°36	21°24
M 6	20 57 5	13°17'37	6♁12	9°59	20°22	15°45	27°20	20°26	6°13	12°23	15°0	7°R19	6°58	0°43	21°30
T 7	21 1 2	14°15'05	19°6	11°9	21°34	16°21	27°33	20°22	6°12	12°22	15°1	7°19	6°55	0°50	21°37
W 8	21 4 59	15°12'33	2♁16	12°17	22°47	16°58	27°47	20°19	6°10	12°21	15°1	7°18	6°52	0°56	21°43
T 9	21 8 55	16°10'03	15°40	13°23	24°0	17°34	28°0	20°15	6°8	12°19	15°1	7°18	6°49	1°3	21°49
F 10	21 12 52	17°7'34	29°18	14°26	25°13	18°10	28°13	20°11	6°7	12°18	15°2	7°16	6°46	1°10	21°55
S 11	21 16 48	18°5'06	13♁8	15°27	26°26	18°45	28°26	20°7	6°5	12°17	15°2	7°15	6°42	1°16	22°1
S 12	21 20 45	19°2'40	27°7	16°25	27°40	19°21	28°39	20°4	6°3	12°16	15°3	7°14	6°39	1°23	22°7
M13	21 24 41	20°0'15	11♁14	17°20	28°53	19°56	28°52	20°0	6°2	12°15	15°4	7°13	6°36	1°30	22°13
T 14	21 28 38	20°57'51	25°26	18°12	0♁6	20°31	29°5	19°57	6°0	12°13	15°4	7°D13	6°33	1°37	22°19
W15	21 32 34	21°55'30	9♁41	19°1	1°19	21°6	29°18	19°53	5°59	12°12	15°5	7°14	6°30	1°43	22°25
T 16	21 36 31	22°53'09	23°57	19°46	2°32	21°40	29°30	19°50	5°58	12°11	15°6	7°15	6°27	1°50	22°31
F 17	21 40 28	23°50'51	8♁10	20°28	3°46	22°15	29°43	19°47	5°56	12°10	15°6	7°16	6°23	1°57	22°37
S 18	21 44 24	24°48'34	22°18	21°7	4°59	22°49	29°56	19°43	5°55	12°9	15°7	7°17	6°20	2°3	22°43
S 19	21 48 21	25°46'18	6♁17	21°41	6°12	23°22	0♁9	19°40	5°54	12°8	15°8	7°R17	6°17	2°10	22°49
M20	21 52 17	26°44'04	20°4	22°12	7°26	23°56	0°21	19°37	5°52	12°7	15°9	7°17	6°14	2°17	22°54
T 21	21 56 14	27°41'51	3♄37	22°38	8°39	24°29	0°34	19°34	5°51	12°6	15°10	7°16	6°11	2°24	23°0
W22	22 0 10	28°39'39	16°53	22°59	9°53	25°2	0°47	19°31	5°50	12°5	15°10	7°13	6°7	2°30	23°6
T 23	22 4 7	29°37'28	29°51	23°16	11°7	25°35	0°59	19°28	5°49	12°4	15°11	7°10	6°4	2°37	23°12
F 24	22 8 3	0♄35'19	12♁32	23°27	12°20	26°7	1°12	19°26	5°48	12°3	15°12	7°6	6°1	2°44	23°17
S 25	22 12 0	1°33'11	24°56	23°33	13°34	26°39	1°24	19°23	5°47	12°2	15°13	7°3	5°58	2°50	23°23
S 26	22 15 57	2°31'05	7♄7	23°R34	14°47	27°11	1°37	19°20	5°46	12°1	15°14	7°0	5°55	2°57	23°28
M27	22 19 53	3°29'00	19°7	23°28	16°1	27°43	1°49	19°18	5°45	12°0	15°15	6°58	5°52	3°4	23°34
T 28	22 23 50	4°26'56	1♁1	23°17	17°15	28°14	2°1	19°15	5°44	11°59	15°17	6°D57	5°48	3°11	23°39
W29	22 27 46	5°24'53	12°53	23°0	18°29	28°45	2°14	19°13	5°43	11°58	15°18	6°57	5°45	3°17	23°45
T 30	22 31 43	6°22'52	24°48	22°37	19°42	29°15	2°26	19°10	5°42	11°58	15°19	6°58	5°42	3°24	23°50
F 31	22 35 39	7♄20'52	6♁52	22♄7	20♁56	29♁45	2♁38	19♁8	5♁41	11♁57	15♄20	7♁0	5♁39	3♁31	23♁55

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	18n 8	25s44	4s41	10n17	0n 6	22n28	0s13	13n43	2s 1	21n 9	0n15	21s47	0n 3	23s37	0s20	21s59	0n52	1s31	15n28	18s27	18s28	24s49	15n36	6s16
T 2	17 53	26 51	4 5	9 39	0s 3	22 22	0 10	13 54	2 1	21 7	0 15	21 48	0 3	23 37	0 20	22 0	0 52	1 32	15 27	18 27	18 29	24 50	15 35	6 17
F 3	17 38	26 43	3 17	9 2	0 13	22 16	0 7	14 5	2 1	21 5	0 16	21 49	0 3	23 37	0 20	22 0	0 52	1 32	15 26	18 27	18 30	24 51	15 34	6 17
S 4	17 22	25 18	2 20	8 24	0 23	22 10	0 5	14 17	2 0	21 2	0 16	21 49	0 3	23 37	0 20	22 0	0 52	1 33	15 26	18 27	18 30	24 52	15 33	6 17
S 5	17 6	22 38	1 16	7 47	0 33	22 3	0 2	14 28	2 0	21 0	0 16	21 50	0 3	23 37	0 20	22 0	0 52	1 34	15 25	18 27	18 31	24 53	15 32	6 17
M 6	16 50	18 50	0 6	7 10	0 43	21 55	0n 1	14 39	2 0	20 57	0 16	21 51	0 3	23 37	0 20	22 0	0 52	1 34	15 25	18 27	18 32	24 55	15 30	6 17
T 7	16 33	14 4	1n 5	6 34	0 53	21 46	0 4	14 49	1 59	20 55	0 16	21 51	0 2	23 38	0 20	22 0	0 52	1 35	15 24	18 27	18 33	24 56	15 29	6 18
W 8	16 17	8 35	2 14	5 58	1 4	21 37	0 6	15 0	1 59	20 52	0 16	21 52	0 2	23 38	0 20	22 0	0 52	1 36	15 23	18 27	18 34	24 57	15 28	6 18
T 9	16 0	2 38	3 17	5 23	1 14	21 27	0 9	15 11	1 58	20 50	0 16	21 53	0 2	23 38	0 20	22 1	0 52	1 36	15 23	18 27	18 34	24 58	15 27	6 18
F 10	15 42	3n32	4 9	4 49	1 25	21 17	0 11	15 21	1 58	20 47	0 16	21 53	0 2	23 38	0 20	22 1	0 52	1 37	15 22	18 27	18 35	24 59	15 26	6 18
S 11	15 25	9 37	4 49	4 16	1 36	21 6	0 14	15 31	1 58	20 45	0 16	21 54	0 2	23 38	0 20	22 1	0 52	1 38	15 22	18 28	18 36	25 0	15 25	6 19
S 12	15 7	15 17	5 11	3 43	1 47	20 54	0 17	15 41	1 57	20 42	0 16	21 55	0 2	23 38	0 20	22 1	0 52	1 38	15 21	18 28	18 37	25 1	15 23	6 19
M13	14 49	20 11	5 15	3 12	1 58	20 42	0 19	15 51	1 57	20 40	0 17	21 55	0 2	23 38	0 20	22 1	0 52	1 39	15 21	18 28	18 38	25 2	15 22	6 19
T 14	14 31	23 59	5 0	2 42	2 9	20 29	0 22	16 1	1 56	20 37	0 17	21 56	0 2	23 38	0 20	22 1	0 52	1 40	15 20	18 28	18 38	25 3	15 21	6 20
W15	14 12	26 18	4 27	2 12	2 20	20 16	0 24	16 10	1 56	20 35	0 17	21 56	0 2	23 38	0 20	22 1	0 52	1 40	15 19	18 28	18 39	25 4	15 20	6 20
T 16	13 53	26 55	3 37	1 45	2 30	20 2	0 27	16 20	1 55	20 32	0 17	21 57	0 2	23 38	0 20	22 2	0 52	1 41	15 19	18 28	18 40	25 5	15 19	6 20
F 17	13 34	25 45	2 34	1 18	2 41	19 47	0 29	16 29	1 55	20 29	0 17	21 57	0 2	23 38	0 20	22 2	0 52	1 42	15 18	18 27	18 41	25 6	15 17	6 20
S 18	13 15	22 57	1 22	0 53	2 52	19 32	0 31	16 38	1 54	20 27	0 17	21 58	0 1	23 38	0 20	22 2	0 52	1 43	15 18	18 27	18 41	25 7	15 16	6 21
S 19	12 56	18 48	0 6	0 30	3 3	19 16	0 34	16 47	1 53	20 24	0 17	21 59	0 1	23 38	0 20	22 2	0 52	1 43	15 17	18 27	18 42	25 8	15 15	6 21
M20	12 36	13 41	1s10	0 9	3 13	19 0	0 36	16 56	1 53	20 22	0 17	21 59	0 1	23 38	0 20	22 2	0 52	1 44	15 17	18 27	18 43	25 9	15 14	6 21
T 21	12 16	8 0	2 20	0s11	3 23	18 43	0 38	17 5	1 52	20 19	0 17	22 0	0 1	23 38	0 20	22 2	0 51	1 45	15 16	18 28	18 44	25 10	15 12	6 22
W22	11 56	2 6	3 21	0 28	3 33	18 26	0 41	17 13	1 52	20 16	0 18	22 0	0 1	23 38	0 20	22 2	0 51	1 46	15 16	18 28	18 45	25 11	15 11	6 22
T 23	11 36	3s46	4 10	0 43	3 42	18 8	0 43	17 22	1 51	20 14	0 18	22 1	0 1	23 38	0 20	22 2	0 51	1 46	15 15	18 29	18 45	25 12	15 10	6 22
F 24	11 16	9 20	4 45	0 56	3 51	17 49	0 45	17 30	1 50	20 11	0 18	22 1	0 1	23 39	0 20	22 3	0 51	1 47	15 14	18 30	18 46	25 13	15 9	6 23
S 25	10 55	14 24	5 7	1 6	3 59	17 30	0 47	17 38	1 49	20 8	0 18	22 2	0 1	23 39	0 20	22 3	0 51	1 48	15 14	18 31	18 47	25 14	15 7	6 23
S 26	10 35	18 49	5 14	1 13	4 6	17 11	0 49	17 46	1 49	20 6	0 18	22 2	0 1	23 39	0 20	22 3	0 51	1 49	15 13	18 32	18 48	25 15	15 6	6 23
M27	10 14	22 25	5 7	1 17	4 13	16 51	0 51	17 54	1 48	20 3	0 18	22 3	0 1	23 39	0 20	22 3	0 51	1 50	15 13	18 32	18 49	25 16	15 5	6 24
T 28	9 53	25 2	4 47	1 17	4 18	16 31	0 53	18 2	1 47	20 1	0 18	22 3	0 1	23 39	0 20	22 3	0 51	1 50	15 12	18 32	18 49	25 17	15 3	6 24
W29	9 32	26 33	4 14	1 15	4 23	16 10	0 55	18 9	1 46	19 58	0 18	22 3	0 1											



SWISS EPHEMERIS for the year 1990

SEPTEMBER 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	22 39 36	8♍18°53'	19♌8	21°R32	22♌10	0♏15	2♌50	19°R 6	5°R41	11°R56	15♌21	7♎1	5♎36	3♌37	24♌1	
S 2	22 43 32	9°16'56	1♎40	20♍51	23°24	0°45	3° 2	19♌4	5♌40	11♌55	15°22	7°R 2	5°32	3°44	24° 6	
M 3	22 47 29	10°15'00	14°31	20° 5	24°38	1°14	3°14	19° 2	5°40	11°55	15°24	7° 2	5°29	3°51	24°11	
T 4	22 51 26	11°13'06	27°43	19°15	25°52	1°43	3°26	19° 0	5°39	11°54	15°25	7° 1	5°26	3°57	24°16	
W 5	22 55 22	12°11'13	11♋15	18°20	27° 6	2°11	3°38	18°58	5°38	11°54	15°26	6°57	5°23	4° 4	24°21	
T 6	22 59 19	13° 9'22	25° 6	17°23	28°20	2°40	3°50	18°57	5°38	11°53	15°28	6°53	5°20	4°11	24°26	
F 7	23 3 15	14° 7'33	9♍12	16°25	29°34	3° 7	4° 1	18°55	5°38	11°52	15°29	6°47	5°17	4°18	24°31	
S 8	23 7 12	15° 5'46	23°28	15°25	0♍48	3°35	4°13	18°54	5°37	11°52	15°31	6°41	5°13	4°24	24°36	
S 9	23 11 8	16° 4'00	7♎50	14°27	2° 3	4° 2	4°25	18°52	5°37	11°51	15°32	6°36	5°10	4°31	24°41	
M10	23 15 5	17° 2'17	22°10	13°30	3°17	4°28	4°36	18°51	5°37	11°51	15°33	6°32	5° 7	4°38	24°46	
T 11	23 19 1	18° 0'36	6♏30	12°37	4°31	4°54	4°47	18°50	5°36	11°51	15°35	6°30	5° 4	4°44	24°51	
W12	23 22 58	18°58'57	20°41	11°49	5°45	5°20	4°59	18°48	5°36	11°50	15°36	6°D29	5° 1	4°51	24°56	
T 13	23 26 55	19°57'20	4♎44	11° 7	7° 0	5°45	5°10	18°47	5°36	11°50	15°38	6°30	4°58	4°58	25° 0	
F 14	23 30 51	20°55'46	26°47'00	8♌10	10°32	8°14	6°10	5°21	18°46	5°36	11°49	15°40	6°31	4°54	5° 5	
S 15	23 34 48	21°54'13	2♌21	10° 5	9°28	6°35	5°32	18°46	5°D36	11°49	15°41	6°R32	4°51	5°11	25° 9	
S 16	23 38 44	22°52'43	15°54	9°46	10°43	6°59	5°43	18°45	5°36	11°49	15°43	6°32	4°48	5°18	25°14	
M17	23 42 41	23°51'14	29°17	9°37	11°57	7°22	5°54	18°44	5°36	11°49	15°45	6°30	4°45	5°25	25°18	
T 18	23 46 37	24°49'47	12♍27	9°D37	13°12	7°45	6° 5	18°44	5°36	11°48	15°46	6°25	4°42	5°31	25°23	
W19	23 50 34	25°48'23	25°25	9°46	14°26	8° 7	6°16	18°43	5°36	11°48	15°48	6°18	4°38	5°38	25°27	
T 20	23 54 30	26°47'00	8♌10	10° 5	15°41	8°29	6°27	18°43	5°37	11°48	15°50	6°10	4°35	5°45	25°31	
F 21	23 58 27	27°45'39	20°42	10°34	16°55	8°51	6°37	18°42	5°37	11°48	15°51	6° 0	4°32	5°51	25°35	
S 22	0 2 24	28°44'20	3♌1	11°11	18°10	9°12	6°48	18°42	5°37	11°48	15°53	5°51	4°29	5°58	25°39	
S 23	0 6 20	29°43'03	15° 8	11°57	19°24	9°32	6°58	18°D42	5°38	11°48	15°55	5°42	4°26	6° 5	25°43	
M24	0 10 17	0♏41'48	27° 6	12°52	20°39	9°52	7° 9	18°42	5°38	11°D48	15°57	5°35	4°23	6°12	25°47	
T 25	0 14 13	1°40'34	8♌57	13°53	21°54	10°11	7°19	18°42	5°39	11°48	15°59	5°30	4°19	6°18	25°51	
W26	0 18 10	2°39'23	20°48	15° 2	23° 8	10°30	7°29	18°43	5°39	11°48	16° 1	5°27	4°16	6°25	25°55	
T 27	0 22 6	3°38'13	2♌41	16°17	24°23	10°48	7°39	18°43	5°40	11°48	16° 3	5°D26	4°13	6°32	25°59	
F 28	0 26 3	4°37'04	14°42	17°37	25°38	11° 5	7°49	18°43	5°41	11°48	16° 4	5°26	4°10	6°38	26° 2	
S 29	0 29 59	5°35'58	26°57	19° 3	26°52	11°22	7°59	18°44	5°41	11°48	16° 6	5°27	4° 7	6°45	26° 6	
S 30	0 33 56	6♌34'53	9♎30	20♍32	28♍7	11♏38	8♌9	18♌45	5♌42	11♌49	16♌8	5°R27	4♎4	6♌52	26♌9	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
S 1	8n27	23s40	1s36	0s45	4s29	15n 5	1n 1	18n31	1s44	19n50	0n19	22s 5	0n 0	23s39	0s20	22s 3	0n51	1s54	15n10	18s31	18s52	25s20	14n58	6s26
S 2	8 5 20	16 0 29	0 28	4 28	14 42	1 2	18 38	1 43	19 47	0 19	22 5	0 0	23 39	0 20	22 4	0 51	1 55	15 10	18 31	18 53	25 21	14 57	6 26	
M 3	7 44 15	50 0n41	0 8	4 25	14 19	1 4	18 45	1 42	19 45	0 19	22 5	0 0	23 39	0 20	22 4	0 51	1 55	15 9	18 31	18 54	25 22	14 56	6 27	
T 4	7 22 10	32 1 50	0n16	4 20	13 56	1 6	18 51	1 41	19 42	0 19	22 6	0 0	23 39	0 20	22 4	0 51	1 56	15 9	18 31	18 55	25 23	14 54	6 27	
W 5	6 59 4 38	2 55 0 44	4 13	13 32	1 7	18 58	1 40	19 39	0 19	22 6	0s 0	23 39	0 20	22 4	0 51	1 57	15 8	18 32	18 56	25 24	14 53	6 28		
T 6	6 37 1n36	3 52 1 14	4 5	13 8	1 9	19 4	1 39	19 37	0 19	22 6	0 0	23 39	0 20	22 4	0 51	1 58	15 8	18 33	18 56	25 25	14 52	6 28		
F 7	6 15 7 51	4 35 1 46	3 54	12 43	1 10	19 11	1 38	19 34	0 20	22 7	0 0	23 39	0 20	22 4	0 51	1 59	15 7	18 35	18 57	25 26	14 51	6 28		
S 8	5 52 13 47	5 2 2 20	3 42	12 18	1 12	19 17	1 37	19 31	0 20	22 7	0 0	23 39	0 20	22 4	0 51	2 0	15 7	18 36	18 58	25 26	14 49	6 29		
S 9	5 30 19 0	5 10 2 56	3 28	11 53	1 13	19 23	1 36	19 29	0 20	22 7	0 0	23 39	0 20	22 4	0 51	2 0	15 6	18 37	18 59	25 27	14 48	6 29		
M10	5 7 23 7 4	5 8 3 32	3 12	11 28	1 14	19 29	1 35	19 26	0 20	22 7	0 0	23 39	0 20	22 4	0 51	2 1	15 6	18 38	18 59	25 28	14 47	6 30		
T 11	4 44 25 48	4 29 4 8	2 55	11 2	1 16	19 35	1 34	19 24	0 20	22 8	0 0	1 23 39	0 20	22 4	0 51	2 2	15 5	18 39	19 0	25 29	14 45	6 30		
W12	4 22 26 49	3 42 4 43	2 37	10 35	1 17	19 40	1 33	19 21	0 20	22 8	0 0	1 23 39	0 20	22 4	0 51	2 3	15 5	18 39	19 1	25 30	14 44	6 31		
T 13	3 59 26 5	2 43 5 16	2 28	10 9	1 18	19 46	1 32	19 18	0 20	22 8	0 0	1 23 39	0 19	22 4	0 51	2 4	15 4	18 39	19 2	25 31	14 43	6 31		
F 14	3 36 23 43	1 35 5 47	1 58	9 42	1 19	19 51	1 31	19 16	0 20	22 8	0 0	1 23 39	0 19	22 4	0 51	2 5	15 4	18 39	19 2	25 31	14 42	6 32		
S 15	3 13 20 0	0 23 6 16	1 39	9 15	1 20	19 56	1 29	19 13	0 21	22 9	0 0	1 23 39	0 19	22 5	0 51	2 6	15 3	18 38	19 3	25 32	14 40	6 32		
S 16	2 50 15 16	0s50	6 41	1 19	8 48	1 21	20 2	1 28	19 11	0 21	22 9	0 0	1 23 39	0 19	22 5	0 51	2 7	15 3	18 39	19 4	25 33	14 39	6 33	
M17	2 26 9 52	1 59 7 3	1 0	8 20	1 22	20 7	1 27	19 8	0 21	22 9	0 0	1 23 39	0 19	22 5	0 51	2 7	15 2	18 39	19 5	25 34	14 38	6 33		
T 18	2 3 4 6	3 1 7 20	0 41	7 52	1 22	20 12	1 26	19 6	0 21	22 9	0 0	1 23 39	0 19	22 5	0 51	2 8	15 2	18 40	19 6	25 35	14 36	6 34		
W19	1 40 1s44	3 52 7 34	0 22	7 24	1 23	20 17	1 24	19 3	0 21	22 9	0 0	1 23 39	0 19	22 5	0 50	2 9	15 2	18 42	19 6	25 35	14 35	6 34		
T 20	1 17 7 23	4 30 7 42	0 5	6 56	1 24	20 21	1 23	19 0	0 21	22 9	0 0	1 23 39	0 19	22 5	0 50	2 10	15 1	18 44	19 7	25 36	14 34	6 35		
F 21	0 53 12 38	4 55 7 47	0n11	6 28	1 24	20 26	1 22	18 58	0 21	22 10	0 0	1 23 39	0 19	22 5	0 50	2 11	15 1	18 46	19 8	25 37	14 33	6 36		
S 22	0 30 17 17	5 5 7 47	0 26	5 59	1 25	20 31	1 20	18 55	0 22	22 10	0 0	1 23 39	0 19	22 5	0 50	2 12	15 0	18 49	19 9	25 38	14 31	6 36		
S 23	0 7 21 10	5 1 7 42	0 41	5 30	1 25	20 35	1 19	18 53	0 22	22 10	0 0	2 23 39	0 19	22 5	0 50	2 13	15 0	18 51	19 9	25 38	14 30	6 37		
M24	0s17 24 7	4 45 7 33	0 53	5 1	1 26	20 39	1 17	18 50	0 22	22 10	0 0	2 23 39	0 19	22 5	0 50	2 14	15 0	18 53	19 10	25 39	14 29	6 37		
T 25	0 40 26 0	4 15 7 20	1 5	4 32	1 26	20 44	1 16	18 48	0 22	22 10	0 0	2 23 39	0 19	22 5	0 50	2 14	14 59	18 54	19 11	25 40	14 28	6 38		
W26	1 3 26 42	3 35 7 3	1 15	4 3	1 26	20 48	1 14	18 46	0 22	22 10	0 0	2 23 39	0 19	22 5	0 50	2 15	14 59	18 55	19 12	25 41	14 26	6 38		
T 27	1 27 26 11	2 46 6 42	1 24	3 33	1 26	20 52	1 13	18 43	0 22	22 10	0 0	2 23 39	0 19	22 5	0 50	2 16	14 58	18 55	19 12	25 41	14 25	6 39		
F 28	1 50 24 26	1 49 6 18	1 32	3 4	1 26	20 56	1 11	18 41	0 22	22 10	0 0	2 23 39	0 19	22 5	0 50	2 17	14 58	18 55	19 13	25 42	14 24	6 39		
S 29	2 13 21 31	0 45 5 51	1 38	2 34	1 26	21 0	1 9	18 38	0 23	22 10	0 0	2 23 39	0 19	22 5	0 50	2 18	14 58	18 55	19 14	25 43	14 23	6 40		
S 30	2s37 17s32	0n22 5n20	1n44 2n 4	1n26 21n 4	1s 8 18n36	0n23 22s10	0s 2 23s38	0s19 22s 5	0n50	2s19 14n57	18s54 19s15	25s43 14n21	6s41											

Julian Day Number = 2

SWISS EPHEMERIS for the year 1990

OCTOBER 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
M 1	0 37 53	7♄33'50	22♋26	22♍5	29♍22	11♂54	8♂18	18♋45	5♋43	11♋49	16♌10	5°R26	4♋0	6♋58	26♁13
T 2	0 41 49	8°32'48	5♋47	23°42	0♄37	12°9	8°28	18°46	5°44	11°49	16°12	5♋22	3°57	7°5	26°16
W 3	0 45 46	9°31'49	19°34	25°20	1°52	12°23	8°37	18°47	5°45	11°49	16°14	5°16	3°54	7°12	26°19
T 4	0 49 42	10°30'51	3♍46	27°1	3°6	12°37	8°46	18°48	5°45	11°50	16°16	5°8	3°51	7°19	26°23
F 5	0 53 39	11°29'55	18°17	28°44	4°21	12°50	8°56	18°49	5°46	11°50	16°18	4°58	3°48	7°25	26°26
S 6	0 57 35	12°29'02	3♌1	0♄27	5°36	13°2	9°5	18°50	5°48	11°50	16°21	4°48	3°44	7°32	26°29
S 7	1 1 32	13°28'11	17°50	2°12	6°51	13°14	9°14	18°52	5°49	11°51	16°23	4°38	3°41	7°39	26°32
M 8	1 5 28	14°27'22	2♂35	3°57	8°6	13°25	9°23	18°53	5°50	11°51	16°25	4°30	3°38	7°45	26°35
T 9	1 9 25	15°26'35	17°10	5°42	9°21	13°35	9°31	18°55	5°51	11°52	16°27	4°25	3°35	7°52	26°37
W10	1 13 22	16°25'51	1♁29	7°28	10°36	13°44	9°40	18°56	5°52	11°52	16°29	4°22	3°32	7°59	26°40
T 11	1 17 18	17°25'08	15°32	9°14	11°51	13°53	9°48	18°58	5°54	11°53	16°31	4°D21	3°29	8°5	26°43
F 12	1 21 15	18°24'29	29°17	11°0	13°6	14°1	9°57	19°0	5°55	11°53	16°33	4°R21	3°25	8°12	26°45
S 13	1 25 11	19°23'51	12♌46	12°45	14°21	14°8	10°5	19°2	5°56	11°54	16°36	4°21	3°22	8°19	26°48
S 14	1 29 8	20°23'16	26°0	14°30	15°36	14°14	10°13	19°4	5°58	11°55	16°38	4°20	3°19	8°26	26°50
M15	1 33 4	21°22'43	9♍1	16°15	16°51	14°19	10°21	19°6	5°59	11°55	16°40	4°15	3°16	8°32	26°52
T 16	1 37 1	22°22'13	21°51	17°59	18°6	14°24	10°29	19°8	6°1	11°56	16°42	4°8	3°13	8°39	26°55
W17	1 40 57	23°21'44	4♁29	19°43	19°21	14°27	10°37	19°10	6°2	11°57	16°45	3°58	3°9	8°46	26°57
T 18	1 44 54	24°21'17	16°58	21°26	20°36	14°30	10°44	19°13	6°4	11°58	16°47	3°46	3°6	8°52	26°59
F 19	1 48 50	25°20'53	29°17	23°8	21°51	14°32	10°52	19°15	6°6	11°58	16°49	3°32	3°3	8°59	27°1
S 20	1 52 47	26°20'31	11♌27	24°50	23°6	14°33	10°59	19°18	6°7	11°59	16°51	3°18	3°0	9°6	27°2
S 21	1 56 44	27°20'10	23°28	26°32	24°22	14°R34	11°6	19°20	6°9	12°0	16°54	3°4	2°57	9°12	27°4
M22	2 0 40	28°19'52	5♋22	28°12	25°37	14°33	11°13	19°23	6°11	12°1	16°56	2°53	2°54	9°19	27°6
T 23	2 4 37	29°19'35	17°11	29°53	26°52	14°32	11°20	19°26	6°13	12°2	16°58	2°44	2°50	9°26	27°7
W24	2 8 33	0♌19'21	29°0	1♌32	28°7	14°29	11°27	19°29	6°15	12°3	17°1	2°38	2°47	9°33	27°9
T 25	2 12 30	1°19'08	10♋50	3°11	29°22	14°26	11°33	19°32	6°17	12°4	17°3	2°35	2°44	9°39	27°10
F 26	2 16 26	2°18'56	22°48	4°50	0♌37	14°22	11°39	19°35	6°19	12°5	17°5	2°34	2°41	9°46	27°12
S 27	2 20 23	3°18'46	4♋59	6°28	1°53	14°17	11°46	19°38	6°21	12°6	17°8	2°34	2°38	9°53	27°13
S 28	2 24 19	4°18'38	17°28	8°5	3°8	14°11	11°52	19°41	6°23	12°7	17°10	2°34	2°35	9°59	27°14
M29	2 28 16	5°18'32	0♋21	9°42	4°23	14°4	11°58	19°45	6°25	12°8	17°13	2°32	2°31	10°6	27°15
T 30	2 32 13	6°18'27	13°41	11°18	5°38	13°56	12°4	19°48	6°27	12°9	17°15	2°28	2°28	10°13	27°16
W31	2 36 9	7♌18'24	27♋30	12♌54	6♌53	13♂48	12♌9	19♋52	6♋29	12♋11	17♌17	2♋22	2♋25	10♋19	27♁17

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	3s 0	12s38	1n29	4n47	1n48	1n34	1n26	21n 8	1s 6	18n34	0n23	22s10	0s 2	23s38	0s19	22s 5	0n50	2s20	14n57	18s55	19s15	25s44	14n20	6s41
T 2	3 23	7 0	2 34	4 12	1 51	1 4	1 26	21 11	1 4	18 31	0 23	22 10	0 2	23 38	0 19	22 5	0 50	2 21	14 56	18 56	19 16	25 45	14 19	6 42
W 3	3 47	0 53	3 32	3 35	1 53	0 35	1 26	21 15	1 3	18 29	0 23	22 10	0 2	23 38	0 19	22 5	0 50	2 22	14 56	18 57	19 17	25 45	14 18	6 42
T 4	4 10	5n27	4 19	2 56	1 55	0 5	1 26	21 19	1 1	18 27	0 23	22 10	0 2	23 38	0 19	22 5	0 50	2 22	14 56	18 59	19 18	25 46	14 17	6 43
F 5	4 33	11 38	4 50	2 16	1 55	0s25	1 25	21 22	0 59	18 24	0 24	22 10	0 2	23 38	0 19	22 5	0 50	2 23	14 55	19 2	19 18	25 47	14 16	6 44
S 6	4 56	17 15	5 2	1 34	1 55	0 56	1 25	21 25	0 57	18 22	0 24	22 10	0 3	23 38	0 19	22 5	0 50	2 24	14 55	19 4	19 19	25 47	14 14	6 44
S 7	5 19	21 51	4 54	0 52	1 53	1 26	1 24	21 29	0 55	18 20	0 24	22 9	0 3	23 38	0 19	22 5	0 50	2 25	14 55	19 6	19 20	25 48	14 13	6 45
M 8	5 42	25 3	4 27	0 8	1 52	1 56	1 24	21 32	0 53	18 18	0 24	22 9	0 3	23 38	0 19	22 5	0 50	2 26	14 55	19 8	19 21	25 49	14 12	6 46
T 9	6 5 26	31 3	4 43	0s36	1 49	2 26	1 23	21 35	0 51	18 16	0 24	22 9	0 3	23 38	0 19	22 5	0 50	2 27	14 54	19 10	19 21	25 49	14 11	6 46
W10	6 28	26 11	2 45	1 20	1 46	2 56	1 23	21 38	0 49	18 13	0 24	22 9	0 3	23 38	0 19	22 5	0 50	2 28	14 54	19 10	19 22	25 50	14 10	6 47
T 11	6 50	24 10	1 38	2 5	1 43	3 26	1 22	21 42	0 47	18 11	0 24	22 9	0 3	23 38	0 19	22 5	0 50	2 28	14 54	19 10	19 23	25 50	14 9	6 47
F 12	7 13	20 45	0 27	2 50	1 39	3 56	1 21	21 45	0 45	18 9	0 25	22 9	0 3	23 38	0 19	22 5	0 50	2 29	14 53	19 10	19 24	25 51	14 8	6 48
S 13	7 36	16 16	0s44	3 35	1 35	4 25	1 20	21 48	0 43	18 7	0 25	22 9	0 3	23 38	0 19	22 5	0 50	2 30	14 53	19 10	19 24	25 52	14 6	6 49
S 14	7 58	11 6	1 52	4 20	1 30	4 55	1 19	21 50	0 40	18 5	0 25	22 8	0 3	23 38	0 19	22 5	0 50	2 31	14 53	19 11	19 25	25 52	14 5	6 49
M15	8 20	5 32	2 52	5 5	1 25	5 25	1 18	21 53	0 38	18 3	0 25	22 8	0 3	23 38	0 19	22 5	0 49	2 32	14 53	19 12	19 26	25 53	14 4	6 50
T 16	8 43	0s11	3 43	5 49	1 20	5 54	1 17	21 56	0 36	18 1	0 25	22 8	0 3	23 38	0 19	22 5	0 49	2 33	14 52	19 13	19 26	25 53	14 3	6 51
W17	9 5	5 47	4 22	6 34	1 14	6 24	1 16	21 59	0 34	17 59	0 25	22 8	0 3	23 37	0 19	22 5	0 49	2 34	14 52	19 16	19 27	25 54	14 2	6 51
T 18	9 27	11 5	4 47	7 18	1 9	6 53	1 15	22 2	0 31	17 57	0 26	22 7	0 3	23 37	0 19	22 5	0 49	2 34	14 52	19 19	19 28	25 55	14 1	6 52
F 19	9 48	15 52	4 59	8 1	1 3	7 22	1 14	22 4	0 29	17 55	0 26	22 7	0 4	23 37	0 19	22 5	0 49	2 35	14 52	19 22	19 29	25 55	14 0	6 53
S 20	10 10	19 58	4 57	8 44	0 57	7 51	1 13	22 7	0 26	17 54	0 26	22 7	0 4	23 37	0 19	22 5	0 49	2 36	14 51	19 25	19 29	25 56	13 59	6 53
S 21	10 32	23 11	4 41	9 27	0 50	8 20	1 11	22 9	0 24	17 52	0 26	22 6	0 4	23 37	0 19	22 5	0 49	2 37	14 51	19 28	19 30	25 56	13 58	6 54
M22	10 53	25 21	4 14	10 9	0 44	8 49	1 10	22 12	0 21	17 50	0 26	22 6	0 4	23 37	0 19	22 5	0 49	2 38	14 51	19 31	19 31	25 57	13 57	6 55
T 23	11 14	26 24	3 35	10 51	0 38	9 17	1 9	22 14	0 19	17 48	0 27	22 6	0 4	23 37	0 19	22 5	0 49	2 38	14 51	19 33	19 32	25 57	13 56	6 55
W24	11 35	26 14	2 47	11 32	0 31	9 46	1 7	22 17	0 16	17 47	0 27	22 5	0 4	23 37	0 19	22 5	0 49	2 39	14 50	19 34	19 32	25 58	13 55	6 56
T 25	11 56	24 52	1 52	12 12	0 24	10 14	1 6	22 19	0 13	17 45	0 27	22 5	0 4	23 37	0 19	22 5	0 49	2 40	14 50	19 35	19 33	25 58	13 54	6 57
F 26	12 17	22 22	0 51	12 51	0 18	10 41	1 4	22 21	0 11	17 43	0 27	22 5	0 4	23 37	0 19	22 5	0 49	2 41	14 50	19 35	19 34	25 59	13 54	6 58
S 27	12 37	18 49	0n13	13 30	0 11	11 9	1 2	22 23	0 8	17 42	0 27	22 4	0 4	23 37	0 19	22 5	0 49	2 42	14 50	19 35	19 34	25 59	13 53	6 58
S 28	12 58	14 22	1 18	14 8	0 4	11 36	1 1	22 25	0 5	17 40	0 27	22 4	0 4	23 36	0 19	22 5	0 49	2 42	14 50	19 35	19 35	26 0	13 52	6 59
M29	13 18	9 9	2 21	14 46	0s 3	12 3	0 59	22 27	0 2	17 39	0 28	22 4	0 4	23 36	0 19	22 4	0 49	2 43	14 50	19 36				

SWISS EPHEMERIS for the year 1990

NOVEMBER 1990

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♄	♃	♁	♁	♁	♁	♁	♁	♁
T 1	2 40 6	8♍18°23	11♏49	14♌29	8♍ 9	13°R38	12♌15	19♌55	6♌32	12♌12	17♍20	2°R13	2♌22	10♌26	27♌17
F 2	2 44 2	9°18'23	26°34	16° 4	9°24	13♌28	12°20	19°59	6°34	12°13	17°22	2♌ 2	2°19	10°33	27°18
S 3	2 47 59	10°18'25	11♏36	17°38	10°39	13°17	12°25	20° 3	6°36	12°14	17°25	1°50	2°15	10°39	27°19
S 4	2 51 55	11°18'29	26°47	19°12	11°54	13° 5	12°30	20° 7	6°39	12°16	17°27	1°39	2°12	10°46	27°19
M 5	2 55 52	12°18'35	11♌55	20°46	13°10	12°52	12°35	20°11	6°41	12°17	17°29	1°30	2° 9	10°53	27°19
T 6	2 59 48	13°18'43	26°51	22°19	14°25	12°39	12°39	20°15	6°44	12°18	17°32	1°24	2° 6	11° 0	27°20
W 7	3 3 45	14°18'53	11♏28	23°52	15°40	12°24	12°44	20°19	6°46	12°20	17°34	1°20	2° 3	11° 6	27°20
T 8	3 7 42	15°19'05	25°42	25°24	16°56	12° 9	12°48	20°23	6°49	12°21	17°37	1°D19	2° 0	11°13	27°R20
F 9	3 11 38	16°19'20	9♏31	26°57	18°11	11°53	12°52	20°27	6°51	12°23	17°39	1°R19	1°56	11°20	27°20
S 10	3 15 35	17°19'36	22°58	28°28	19°26	11°36	12°56	20°32	6°54	12°24	17°41	1°19	1°53	11°26	27°20
S 11	3 19 31	18°19'54	6♎ 5	29°59	20°41	11°19	13° 0	20°36	6°56	12°26	17°44	1°18	1°50	11°33	27°20
M12	3 23 28	19°20'14	18°54	1♌31	21°57	11° 1	13° 4	20°41	6°59	12°27	17°46	1°14	1°47	11°40	27°19
T 13	3 27 24	20°20'36	1♌29	3° 1	23°12	10°42	13° 7	20°45	7° 2	12°29	17°49	1° 8	1°44	11°46	27°19
W14	3 31 21	21°21'00	13°53	4°32	24°27	10°23	13°10	20°50	7° 5	12°30	17°51	0°59	1°41	11°53	27°18
T 15	3 35 17	22°21'25	26° 8	6° 2	25°43	10° 3	13°13	20°55	7° 7	12°32	17°54	0°47	1°37	12° 0	27°18
F 16	3 39 14	23°21'53	8♍14	7°31	26°58	9°43	13°16	20°59	7°10	12°33	17°56	0°34	1°34	12° 6	27°17
S 17	3 43 11	24°22'22	20°14	9° 1	28°13	9°22	13°19	21° 4	7°13	12°35	17°58	0°21	1°31	12°13	27°16
S 18	3 47 7	25°22'53	2♌ 9	10°29	29°29	9° 1	13°21	21° 9	7°16	12°37	18° 1	0° 9	1°28	12°20	27°15
M19	3 51 4	26°23'25	14° 0	11°58	0♌44	8°40	13°23	21°14	7°19	12°38	18° 3	29♌58	1°25	12°27	27°14
T 20	3 55 0	27°23'59	25°48	13°26	1°59	8°18	13°26	21°19	7°22	12°40	18° 6	29°50	1°21	12°33	27°13
W21	3 58 57	28°24'35	7♌37	14°53	3°15	7°56	13°27	21°24	7°25	12°42	18° 8	29°44	1°18	12°40	27°12
T 22	4 2 53	29°25'11	19°29	16°20	4°30	7°33	13°29	21°30	7°28	12°44	18°10	29°42	1°15	12°47	27°11
F 23	4 6 50	0♌25'49	1♌27	17°47	5°45	7°11	13°31	21°35	7°31	12°45	18°13	29°D41	1°12	12°53	27°10
S 24	4 10 47	1°26'28	13°36	19°12	7° 1	6°48	13°32	21°40	7°34	12°47	18°15	29°42	1° 9	13° 0	27° 8
S 25	4 14 43	2°27'08	26° 2	20°37	8°16	6°25	13°33	21°46	7°37	12°49	18°18	29°43	1° 6	13° 7	27° 7
M26	4 18 40	3°27'49	8♏49	22° 1	9°32	6° 3	13°34	21°51	7°40	12°51	18°20	29°R43	1° 2	13°13	27° 5
T 27	4 22 36	4°28'31	22° 1	23°24	10°47	5°40	13°35	21°57	7°43	12°53	18°22	29°41	0°59	13°20	27° 3
W28	4 26 33	5°29'14	5♏42	24°46	12° 2	5°17	13°35	22° 2	7°46	12°55	18°25	29°37	0°56	13°27	27° 2
T 29	4 30 29	6°29'59	19°54	26° 7	13°18	4°55	13°36	22° 8	7°49	12°56	18°27	29°31	0°53	13°33	27° 0
F 30	4 34 26	7♌30'44	4♌33	27♌26	14♌33	4♌33	13°R36	22♌14	7♌53	12♌58	18♌29	29♌24	0♌50	13♌40	26♌58

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	14s17	9n 0	4n42	16s33	0s23	13s23	0n54	22n33	0n 6	17n35	0n28	22s 2	0s 4	23s36	0s19	22s 4	0n49	2s45	14n49	19s40	19s38	26s 2	13n48	7s 2
F 2	14 36	14 53	4 59	17 7	0 29	13 48	0 52	22 34	0 9	17 33	0 28	22 2	0 5	23 36	0 19	22 4	0 49	2 46	14 49	19 43	19 39	26 2	13 48	7 2
S 3	14 55	20 0	4 56	17 40	0 36	14 14	0 50	22 36	0 12	17 32	0 29	22 1	0 5	23 36	0 19	22 4	0 49	2 47	14 49	19 45	19 40	26 2	13 47	7 3
S 4	15 13	23 51	4 32	18 13	0 43	14 39	0 48	22 38	0 15	17 31	0 29	22 1	0 5	23 36	0 19	22 4	0 49	2 48	14 49	19 48	19 40	26 3	13 46	7 4
M 5	15 32	26 1	3 50	18 44	0 49	15 4	0 46	22 39	0 18	17 30	0 29	22 0	0 5	23 35	0 19	22 4	0 49	2 48	14 49	19 50	19 41	26 3	13 45	7 4
T 6	15 50	26 16	2 51	19 15	0 55	15 28	0 44	22 40	0 22	17 29	0 29	22 0	0 5	23 35	0 19	22 4	0 49	2 49	14 49	19 51	19 42	26 4	13 45	7 5
W 7	16 8	24 39	1 43	19 44	1 2	15 52	0 42	22 41	0 25	17 28	0 29	21 59	0 5	23 35	0 19	22 4	0 49	2 50	14 49	19 52	19 42	26 4	13 44	7 6
T 8	16 26	21 30	0 30	20 13	1 8	16 16	0 40	22 43	0 28	17 27	0 30	21 59	0 5	23 35	0 19	22 4	0 49	2 50	14 49	19 52	19 43	26 5	13 43	7 6
F 9	16 43	17 10	0s43	20 41	1 14	16 39	0 38	22 43	0 31	17 26	0 30	21 58	0 5	23 35	0 19	22 4	0 49	2 51	14 48	19 52	19 44	26 5	13 43	7 7
S 10	17 0	12 6	1 52	21 7	1 20	17 1	0 35	22 44	0 34	17 25	0 30	21 57	0 5	23 35	0 19	22 3	0 49	2 52	14 48	19 52	19 45	26 5	13 42	7 8
S 11	17 17	6 36	2 53	21 33	1 26	17 24	0 33	22 45	0 37	17 24	0 30	21 57	0 5	23 35	0 19	22 3	0 49	2 52	14 48	19 52	19 45	26 6	13 41	7 8
M12	17 34	0 57	3 44	21 57	1 31	17 45	0 31	22 46	0 40	17 23	0 30	21 56	0 5	23 34	0 19	22 3	0 49	2 53	14 48	19 53	19 46	26 6	13 41	7 9
T 13	17 50	4s37	4 23	22 21	1 37	18 7	0 29	22 46	0 43	17 22	0 31	21 56	0 5	23 34	0 19	22 3	0 48	2 54	14 48	19 55	19 47	26 6	13 40	7 10
W14	18 6	9 54	4 49	22 43	1 42	18 27	0 27	22 46	0 46	17 21	0 31	21 55	0 5	23 34	0 19	22 3	0 48	2 54	14 48	19 57	19 47	26 7	13 40	7 10
T 15	18 22	14 45	5 1	23 4	1 47	18 48	0 24	22 47	0 50	17 21	0 31	21 54	0 5	23 34	0 19	22 3	0 48	2 55	14 48	19 59	19 48	26 7	13 39	7 11
F 16	18 37	18 58	4 59	23 24	1 52	19 8	0 22	22 47	0 53	17 20	0 31	21 54	0 5	23 34	0 19	22 3	0 48	2 56	14 48	20 2	19 49	26 8	13 38	7 12
S 17	18 52	22 22	4 44	23 43	1 56	19 27	0 20	22 47	0 56	17 20	0 31	21 53	0 6	23 34	0 19	22 3	0 48	2 56	14 48	20 5	19 49	26 8	13 38	7 12
S 18	19 7	24 47	4 17	24 1	2 1	19 46	0 17	22 46	0 59	17 19	0 32	21 52	0 6	23 34	0 19	22 2	0 48	2 57	14 48	20 7	19 50	26 8	13 37	7 13
M19	19 21	26 6	3 38	24 17	2 5	20 4	0 15	22 46	1 2	17 19	0 32	21 52	0 6	23 33	0 19	22 2	0 48	2 58	14 48	20 10	19 51	26 8	13 37	7 14
T 20	19 35	26 13	2 50	24 32	2 9	20 21	0 13	22 46	1 5	17 18	0 32	21 51	0 6	23 33	0 19	22 2	0 48	2 58	14 48	20 11	19 52	26 9	13 37	7 14
W21	19 48	25 8	1 55	24 46	2 12	20 38	0 10	22 45	1 8	17 18	0 32	21 50	0 6	23 33	0 19	22 2	0 48	2 59	14 48	20 12	19 52	26 9	13 36	7 15
T 22	20 2	22 56	0 54	24 59	2 15	20 55	0 8	22 44	1 11	17 18	0 32	21 49	0 6	23 33	0 19	22 2	0 48	2 59	14 48	20 13	19 53	26 9	13 36	7 16
F 23	20 15	19 41	0n 9	25 10	2 18	21 11	0 5	22 44	1 14	17 17	0 33	21 49	0 6	23 33	0 19	22 2	0 48	3 0	14 48	20 13	19 54	26 10	13 35	7 16
S 24	20 27	15 34	1 14	25 20	2 21	21 26	0 3	22 43	1 17	17 17	0 33	21 48	0 6	23 33	0 19	22 2	0 48	3 0	14 48	20 13	19 54	26 10	13 35	7 17
S 25	20 39	10 42	2 16	25 29	2 23	21 41	0 1	22 41	1 20	17 17	0 33	21 47	0 6	23 32	0 19	22 2	0 48	3 1	14 49	20 13	19 55	26 10	13 35	7 18
M26	20 51	5 16	3 14	25 36	2 25	21 55	0s 2	22 40	1 22	17 17	0 33	21 46	0 6	23 32	0 19	22 1	0 48	3 2	14 49	20 13	19 56	26 11	13 34	7 18
T 27	21 2	0n34	4 3	25 42	2 26	22 8	0 4	22 39	1 25	17 17	0 33	21 45	0 6	23 32	0 19	22 1	0 48	3 2	14 49	20 13	19 56	26 11	13 34	7 19
W28	21 13	6 33	4 41	25 47	2 27	22 21	0 7	22 38	1 28	17 17	0 34	21 45	0 6	23 32	0 19	22 1	0 48	3 3	14 49	20 14	19 57	26 11	13 34	7 19
T 29	21 24	12 26	5 2	25 50	2 27	22 33	0 9	22 36	1 31	17 17	0 34	21 44	0 6	23 32	0 19	22 1	0 48	3 3	14					

SWISS EPHEMERIS for the year 1990

DECEMBER 1990

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Day	Sid.t	☉	☽	♀	♂	♂	♄	♃	♁	♁	♁	♁	♁	♁	♁
S 1	4 38 22	8♂31'30	19♂36	28♂44	15♂48	4°R11	13°R36	22♂19	7♂56	13♂0	18♂32	29°R16	0♂47	13♂47	26°R56
S 2	4 42 19	9°32'18	4♂52	29°59	17° 4	3♂49	13♂35	22°25	7°59	13° 2	18°34	29♂8	0°43	13°53	26♂53
M 3	4 46 16	10°33'06	20°12	1♂13	18°19	3°27	13°35	22°31	8° 2	13° 4	18°36	29° 1	0°40	14° 0	26°51
T 4	4 50 12	11°33'56	5♂23	2°24	19°34	3° 6	13°34	22°37	8° 6	13° 6	18°39	28°57	0°37	14° 7	26°49
W 5	4 54 9	12°34'48	20°17	3°32	20°50	2°46	13°34	22°43	8° 9	13° 8	18°41	28°55	0°34	14°14	26°47
T 6	4 58 5	13°35'40	4♂47	4°36	22° 5	2°26	13°32	22°49	8°12	13°10	18°43	28°D55	0°31	14°20	26°44
F 7	5 2 2	14°36'34	18°50	5°37	23°20	2° 6	13°31	22°55	8°16	13°12	18°45	28°56	0°27	14°27	26°42
S 8	5 5 58	15°37'29	2♂26	6°33	24°36	1°47	13°30	23° 1	8°19	13°14	18°48	28°57	0°24	14°34	26°39
S 9	5 9 55	16°38'25	15°37	7°24	25°51	1°28	13°28	23° 7	8°23	13°16	18°50	28°R58	0°21	14°40	26°36
M10	5 13 51	17°39'22	28°25	8° 9	27° 6	1°10	13°26	23°14	8°26	13°19	18°52	28°57	0°18	14°47	26°33
T 11	5 17 48	18°40'20	10♂56	8°48	28°22	0°53	13°24	23°20	8°29	13°21	18°54	28°55	0°15	14°54	26°31
W12	5 21 45	19°41'20	23°12	9°19	29°37	0°36	13°22	23°26	8°33	13°23	18°56	28°50	0°12	15° 0	26°28
T 13	5 25 41	20°42'21	5♂18	9°43	0♂52	0°20	13°20	23°32	8°36	13°25	18°58	28°44	0° 8	15° 7	26°25
F 14	5 29 38	21°43'23	17°16	9°56	2° 8	0° 5	13°17	23°39	8°40	13°27	19° 1	28°38	0° 5	15°14	26°22
S 15	5 33 34	22°44'25	29° 9	10°R 0	3°23	29♂50	13°14	23°45	8°43	13°29	19° 3	28°30	0° 2	15°20	26°18
S 16	5 37 31	23°45'29	10♂59	9°54	4°38	29°36	13°11	23°52	8°47	13°31	19° 5	28°23	29♂59	15°27	26°15
M17	5 41 27	24°46'33	22°49	9°36	5°54	29°23	13° 8	23°58	8°50	13°34	19° 7	28°18	29°56	15°34	26°12
T 18	5 45 24	25°47'39	4♂39	9° 6	7° 9	29°11	13° 5	24° 5	8°54	13°36	19° 9	28°14	29°53	15°40	26° 9
W19	5 49 20	26°48'44	16°32	8°25	8°25	29° 0	13° 1	24°11	8°57	13°38	19°11	28°11	29°49	15°47	26° 5
T 20	5 53 17	27°49'50	28°30	7°32	9°40	28°49	12°57	24°18	9° 1	13°40	19°13	28°D10	29°46	15°54	26° 2
F 21	5 57 14	28°50'57	10♂36	6°30	10°55	28°39	12°53	24°25	9° 4	13°42	19°15	28°11	29°43	16° 1	25°58
S 22	6 1 10	29°52'04	22°51	5°19	12°10	28°30	12°49	24°31	9° 8	13°45	19°17	28°13	29°40	16° 7	25°55
S 23	6 5 7	0♂53'11	5♂21	4° 1	13°26	28°22	12°45	24°38	9°11	13°47	19°19	28°14	29°37	16°14	25°51
M24	6 9 3	1°54'18	18° 7	2°40	14°41	28°14	12°41	24°45	9°15	13°49	19°21	28°16	29°33	16°21	25°47
T 25	6 13 0	2°55'25	1♂15	1°18	15°56	28° 8	12°36	24°52	9°19	13°51	19°23	28°R17	29°30	16°27	25°44
W26	6 16 56	3°56'33	14°46	29♂57	17°12	28° 2	12°31	24°58	9°22	13°53	19°25	28°16	29°27	16°34	25°40
T 27	6 20 53	4°57'40	28°44	28°40	18°27	27°57	12°26	25° 5	9°26	13°56	19°27	28°15	29°24	16°41	25°36
F 28	6 24 49	5°58'48	13♂7	27°29	19°42	27°53	12°21	25°12	9°29	13°58	19°28	28°12	29°21	16°47	25°32
S 29	6 28 46	6°59'56	27°52	26°27	20°58	27°50	12°16	25°19	9°33	14° 0	19°30	28° 9	29°18	16°54	25°28
S 30	6 32 43	8° 1'03	12♂54	25°34	22°13	27°48	12°10	25°26	9°37	14° 2	19°32	28° 6	29°14	17° 1	25°24
M31	6 36 39	9♂2'11	28♂5	24♂51	23♂28	27♂46	12♂5	25♂33	9♂40	14♂5	19♂34	28♂4	29♂11	17♂7	25♂20

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	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
S 1	21s44	22n15	4n48	25s52	2s26	22s55	0s14	22n33	1n36	17n18	0n34	21s42	0s 6	23s31	0s19	22s 1	0n48	3s 4	14n49	20s18	19s59	26s12	13n33	7s21
S 2	21 53 25	12 4 10	25 51	2 24 23	5 0 16	22 31	1 38	17 18	0 35	21 41	0 7	23 31	0 19	22 0	0 48	3 4	14 49	20 20	20 0	26 12	13 33	7 22		
M 3	22 2 26	17 3 13	25 48	2 22 23	14 0 19	22 30	1 41	17 18	0 35	21 40	0 7	23 31	0 19	22 0	0 48	3 5	14 49	20 21	20 1	26 12	13 33	7 22		
T 4	22 10 25	23 2 4 25	44 2 19	23 24	0 21	22 28	1 43	17 19	0 35	21 39	0 7	23 31	0 19	22 0	0 48	3 5	14 50	20 22	20 1	26 12	13 33	7 23		
W 5	22 18 22	41 0 46	25 39	2 15 23	31 0 23	22 26	1 45	17 19	0 35	21 38	0 7	23 30	0 19	22 0	0 48	3 6	14 50	20 23	20 2	26 13	13 33	7 23		
T 6	22 26 18	33 0s32	25 32	2 11 23	38 0 26	22 24	1 47	17 20	0 35	21 37	0 7	23 30	0 19	22 0	0 48	3 6	14 50	20 23	20 3	26 13	13 32	7 24		
F 7	22 33 13	30 1 46	25 24	2 5 23	44 0 28	22 22	1 50	17 20	0 36	21 36	0 7	23 30	0 19	22 0	0 48	3 7	14 50	20 23	20 3	26 13	13 32	7 25		
S 8	22 40 7	56 2 51	25 15	1 58 23	50 0 30	22 20	1 52	17 21	0 36	21 36	0 7	23 30	0 19	21 59	0 48	3 7	14 50	20 22	20 4	26 13	13 32	7 25		
S 9	22 46 2 12	3 46 25	5 1 51	23 55	0 33	22 19	1 54	17 21	0 36	21 35	0 7	23 30	0 19	21 59	0 48	3 7	14 50	20 22	20 5	26 13	13 32	7 26		
M10	22 52 3s28	4 27 24	53 1 42	24 0	0 35	22 17	1 55	17 22	0 36	21 34	0 7	23 29	0 19	21 59	0 48	3 8	14 51	20 22	20 5	26 13	13 32	7 26		
T 11	22 58 8 51	4 55 24	41 1 32	24 3	0 37	22 15	1 57	17 23	0 37	21 33	0 7	23 29	0 19	21 59	0 48	3 8	14 51	20 23	20 6	26 14	13 32	7 27		
W12	23 2 13	47 5 9	24 27	1 21 24	6 0 39	22 13	1 59	17 24	0 37	21 32	0 7	23 29	0 19	21 59	0 48	3 9	14 51	20 24	20 7	26 14	13 32	7 27		
T 13	23 7 18	7 5 8	24 13	1 8 24	8 0 42	22 11	2 1 17	25 0 37	21 31	0 7	23 29	0 19	21 58	0 48	3 9	14 51	20 25	20 7	26 14	13 32	7 28			
F 14	23 11 21	41 4 54	23 58	0 54 24	9 0 44	22 10	2 2 17	26 0 37	21 30	0 7	23 29	0 19	21 58	0 48	3 9	14 51	20 26	20 8	26 14	13 33	7 28			
S 15	23 15 24	19 4 27	23 43	0 39 24	10 0 46	22 8	2 4 17	27 0 37	21 28	0 7	23 28	0 19	21 58	0 48	3 10	14 52	20 28	20 9	26 14	13 33	7 29			
S 16	23 18 25	52 3 49	23 27	0 23 24	10 0 48	22 7	2 5 17	28 0 38	21 27	0 7	23 28	0 19	21 58	0 48	3 10	14 52	20 29	20 9	26 14	13 33	7 29			
M17	23 20 26	16 3 1 23	11 0 5 24	9 0 50	22 5	2 7 17	29 0 38	21 26	0 8	23 28	0 19	21 58	0 48	3 10	14 52	20 30	20 10	26 14	13 33	7 29				
T 18	23 22 25	27 2 5 22	54 0n14	24 7	0 52	22 4	2 8 17	30 0 38	21 25	0 8	23 28	0 19	21 57	0 48	3 10	14 52	20 31	20 11	26 15	13 33	7 30			
W19	23 24 23	28 1 3 22	37 0 33	24 5	0 54	22 2	2 9 17	31 0 38	21 24	0 8	23 27	0 19	21 57	0 48	3 11	14 53	20 32	20 11	26 15	13 33	7 30			
T 20	23 25 20	26 0n 2	22 21	0 53 24	2 0 56	22 1	2 11 17	32 0 38	21 23	0 8	23 27	0 19	21 57	0 48	3 11	14 53	20 32	20 12	26 15	13 34	7 31			
F 21	23 26 16	30 1 8 22	4 1 13	23 58	0 58	22 0	2 12 17	34 0 39	21 22	0 8	23 27	0 19	21 57	0 48	3 11	14 53	20 32	20 13	26 15	13 34	7 31			
S 22	23 26 11	50 2 11	21 48	1 33 23	53 1 0	21 59	2 13 17	35 0 39	21 21	0 8	23 27	0 19	21 57	0 48	3 11	14 53	20 31	20 13	26 15	13 34	7 31			
S 23	23 26 6 36	3 10 21	32 1 51	23 48	1 2 21	58 2 14	17 37	0 39	21 20	0 8	23 26	0 19	21 56	0 48	3 12	14 54	20 31	20 14	26 15	13 34	7 32			
M24	23 26 1 0	4 1 21	16 2 9	23 42	1 4 21	58 2 15	17 38	0 39	21 19	0 8	23 26	0 19	21 56	0 48	3 12	14 54	20 31	20 15	26 15	13 35	7 32			
T 25	23 25 4n47	4 41 21	2 2 24	23 35	1 6 21	57 2 16	17 40	0 39	21 17	0 8	23 26	0 19	21 56	0 48	3 12	14 54	20 30	20 15	26 15	13 35	7 33			
W26	23 23 10 32	5 6 20	49 2 38	23 27	1 8 21	56 2 16	17 41	0 40	21 16	0 8	23 26	0 19	21 56	0 48	3 12	14 54	20 31	20 16	26 15	13 35	7 33			
T 27	23 21 15 55	5 15 20	37 2 49	23 19	1 9 21	56 2 17	17 43	0 40	21 15	0 8	23 25	0 19	21 56	0 47	3 12	14 55	20 31	20 17	26 15	13 36	7 33			
F 28	23 18 20 36	5 4 20	28 2 57	23 10	1 11 21	56 2 18	17 44	0 40	21 14	0 8	23 25	0 19	21 55	0 47	3 13	14 55	20 31	20 17	26 15	13 36	7 33			
S 29	23 15 24 8	4 34 20	20 3 4 23	0 1 13	21 56 2 19	17 46 0 40	21 13 0 8	23 25 0 19	21 55 0 47	3 13 14 55	20 32 20 18	26 15 13 36 7 34												
S 30	23 12 26 3	3 44 20	15 3																					