

SWISS EPHEMERIS for the year 1733  
heliocentric

JANUARY 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
T 1	6 42 31	10 <sup>5</sup> 42'38	10 <sup>5</sup> 44	1 <sup>8</sup> 50	29 <sup>17</sup> 56	15 <sup>17</sup> 23	26 <sup>19</sup> 19	16 <sup>17</sup> 27	10 <sup>5</sup> 50	18 <sup>11</sup> 26	18 <sup>11</sup> 30	6 <sup>2</sup> 20
F 2	6 46 28	11 <sup>0</sup> 43'47	11 <sup>0</sup> 47	7 <sup>0</sup> 41	1 <sup>12</sup> 33	15 <sup>0</sup> 59	26 <sup>0</sup> 24	16 <sup>0</sup> 29	10 <sup>0</sup> 51	18 <sup>0</sup> 27	18 <sup>0</sup> 31	6 <sup>0</sup> 21
S 3	6 50 24	12 <sup>0</sup> 44'56	12 <sup>0</sup> 50	13 <sup>0</sup> 38	3 <sup>0</sup> 10	16 <sup>0</sup> 36	26 <sup>0</sup> 28	16 <sup>0</sup> 31	10 <sup>0</sup> 52	18 <sup>0</sup> 27	18 <sup>0</sup> 31	6 <sup>0</sup> 21
S 4	6 54 21	13 <sup>0</sup> 46'05	13 <sup>0</sup> 52	19 <sup>0</sup> 43	4 <sup>0</sup> 47	17 <sup>0</sup> 12	26 <sup>0</sup> 33	16 <sup>0</sup> 33	10 <sup>0</sup> 53	18 <sup>0</sup> 28	18 <sup>0</sup> 31	6 <sup>0</sup> 22
M 5	6 58 17	14 <sup>0</sup> 47'13	14 <sup>0</sup> 55	25 <sup>0</sup> 53	6 <sup>0</sup> 24	17 <sup>0</sup> 48	26 <sup>0</sup> 37	16 <sup>0</sup> 35	10 <sup>0</sup> 53	18 <sup>0</sup> 28	18 <sup>0</sup> 32	6 <sup>0</sup> 23
T 6	7 2 14	15 <sup>0</sup> 48'22	15 <sup>0</sup> 57	2 <sup>11</sup> 7	8 <sup>0</sup> 1	18 <sup>0</sup> 24	26 <sup>0</sup> 42	16 <sup>0</sup> 38	10 <sup>0</sup> 54	18 <sup>0</sup> 28	18 <sup>0</sup> 32	6 <sup>0</sup> 23
W 7	7 6 10	16 <sup>0</sup> 49'31	16 <sup>0</sup> 59	8 <sup>0</sup> 24	9 <sup>0</sup> 38	19 <sup>0</sup> 0	26 <sup>0</sup> 46	16 <sup>0</sup> 40	10 <sup>0</sup> 55	18 <sup>0</sup> 29	18 <sup>0</sup> 33	6 <sup>0</sup> 24
T 8	7 10 7	17 <sup>0</sup> 50'39	18 <sup>0</sup> 0	14 <sup>0</sup> 43	11 <sup>0</sup> 15	19 <sup>0</sup> 36	26 <sup>0</sup> 51	16 <sup>0</sup> 42	10 <sup>0</sup> 55	18 <sup>0</sup> 29	18 <sup>0</sup> 33	6 <sup>0</sup> 25
F 9	7 14 4	18 <sup>0</sup> 51'48	19 <sup>0</sup> 1	21 <sup>0</sup> 2	12 <sup>0</sup> 51	20 <sup>0</sup> 12	26 <sup>0</sup> 55	16 <sup>0</sup> 44	10 <sup>0</sup> 56	18 <sup>0</sup> 29	18 <sup>0</sup> 34	6 <sup>0</sup> 26
S 10	7 18 0	19 <sup>0</sup> 52'56	20 <sup>0</sup> 2	27 <sup>0</sup> 20	14 <sup>0</sup> 28	20 <sup>0</sup> 47	27 <sup>0</sup> 0	16 <sup>0</sup> 46	10 <sup>0</sup> 57	18 <sup>0</sup> 30	18 <sup>0</sup> 34	6 <sup>0</sup> 26
S 11	7 21 57	20 <sup>0</sup> 54'05	21 <sup>0</sup> 2	3 <sup>33</sup> 35	16 <sup>0</sup> 5	21 <sup>0</sup> 23	27 <sup>0</sup> 5	16 <sup>0</sup> 48	10 <sup>0</sup> 58	18 <sup>0</sup> 30	18 <sup>0</sup> 34	6 <sup>0</sup> 27
M 12	7 25 53	21 <sup>0</sup> 55'13	22 <sup>0</sup> 2	9 <sup>0</sup> 45	17 <sup>0</sup> 42	21 <sup>0</sup> 59	27 <sup>0</sup> 9	16 <sup>0</sup> 50	10 <sup>0</sup> 58	18 <sup>0</sup> 31	18 <sup>0</sup> 35	6 <sup>0</sup> 28
T 13	7 29 50	22 <sup>0</sup> 56'20	23 <sup>0</sup> 2	15 <sup>0</sup> 50	19 <sup>0</sup> 18	22 <sup>0</sup> 35	27 <sup>0</sup> 14	16 <sup>0</sup> 52	10 <sup>0</sup> 59	18 <sup>0</sup> 31	18 <sup>0</sup> 35	6 <sup>0</sup> 29
W 14	7 33 46	23 <sup>0</sup> 57'28	24 <sup>0</sup> 1	21 <sup>0</sup> 49	20 <sup>0</sup> 55	23 <sup>0</sup> 10	27 <sup>0</sup> 18	16 <sup>0</sup> 54	11 <sup>0</sup> 0	18 <sup>0</sup> 31	18 <sup>0</sup> 36	6 <sup>0</sup> 29
T 15	7 37 43	24 <sup>0</sup> 58'35	25 <sup>0</sup> 1	27 <sup>0</sup> 39	22 <sup>0</sup> 31	23 <sup>0</sup> 46	27 <sup>0</sup> 23	16 <sup>0</sup> 56	11 <sup>0</sup> 0	18 <sup>0</sup> 32	18 <sup>0</sup> 36	6 <sup>0</sup> 30
F 16	7 41 39	25 <sup>0</sup> 59'41	26 <sup>0</sup> 0	3 <sup>12</sup> 22	24 <sup>0</sup> 8	24 <sup>0</sup> 21	27 <sup>0</sup> 27	16 <sup>0</sup> 58	11 <sup>0</sup> 1	18 <sup>0</sup> 32	18 <sup>0</sup> 36	6 <sup>0</sup> 31
S 17	7 45 36	27 <sup>0</sup> 0'47	26 <sup>0</sup> 59	8 <sup>0</sup> 55	25 <sup>0</sup> 44	24 <sup>0</sup> 57	27 <sup>0</sup> 32	17 <sup>0</sup> 1	11 <sup>0</sup> 2	18 <sup>0</sup> 32	18 <sup>0</sup> 37	6 <sup>0</sup> 32
S 18	7 49 33	28 <sup>0</sup> 1'52	27 <sup>0</sup> 58	14 <sup>0</sup> 19	27 <sup>0</sup> 21	25 <sup>0</sup> 32	27 <sup>0</sup> 36	17 <sup>0</sup> 3	11 <sup>0</sup> 3	18 <sup>0</sup> 33	18 <sup>0</sup> 37	6 <sup>0</sup> 32
M 19	7 53 29	29 <sup>0</sup> 2'56	28 <sup>0</sup> 58	19 <sup>0</sup> 33	28 <sup>0</sup> 57	26 <sup>0</sup> 8	27 <sup>0</sup> 41	17 <sup>0</sup> 5	11 <sup>0</sup> 3	18 <sup>0</sup> 33	18 <sup>0</sup> 38	6 <sup>0</sup> 33
T 20	7 57 26	0 <sup>0</sup> 3'59	29 <sup>0</sup> 57	24 <sup>0</sup> 38	0 <sup>11</sup> 33	26 <sup>0</sup> 43	27 <sup>0</sup> 46	17 <sup>0</sup> 7	11 <sup>0</sup> 4	18 <sup>0</sup> 33	18 <sup>0</sup> 38	6 <sup>0</sup> 34
W 21	8 1 22	1 <sup>0</sup> 5'01	0 <sup>12</sup> 57	29 <sup>0</sup> 33	2 <sup>10</sup> 1	27 <sup>0</sup> 18	27 <sup>0</sup> 50	17 <sup>0</sup> 9	11 <sup>0</sup> 5	18 <sup>0</sup> 34	18 <sup>0</sup> 39	6 <sup>0</sup> 34
T 22	8 5 19	2 <sup>0</sup> 6'02	1 <sup>0</sup> 58	4 <sup>17</sup> 18	3 <sup>0</sup> 46	27 <sup>0</sup> 53	27 <sup>0</sup> 55	17 <sup>0</sup> 11	11 <sup>0</sup> 5	18 <sup>0</sup> 34	18 <sup>0</sup> 39	6 <sup>0</sup> 35
F 23	8 9 15	3 <sup>0</sup> 7'01	2 <sup>0</sup> 58	8 <sup>0</sup> 55	5 <sup>0</sup> 22	28 <sup>0</sup> 29	27 <sup>0</sup> 59	17 <sup>0</sup> 13	11 <sup>0</sup> 6	18 <sup>0</sup> 35	18 <sup>0</sup> 39	6 <sup>0</sup> 36
S 24	8 13 12	4 <sup>0</sup> 8'00	4 <sup>0</sup> 0	13 <sup>0</sup> 22	6 <sup>0</sup> 58	29 <sup>0</sup> 4	28 <sup>0</sup> 4	17 <sup>0</sup> 15	11 <sup>0</sup> 7	18 <sup>0</sup> 35	18 <sup>0</sup> 40	6 <sup>0</sup> 37
S 25	8 17 8	5 <sup>0</sup> 8'57	5 <sup>0</sup> 1	17 <sup>0</sup> 42	8 <sup>0</sup> 34	29 <sup>0</sup> 39	28 <sup>0</sup> 8	17 <sup>0</sup> 17	11 <sup>0</sup> 8	18 <sup>0</sup> 35	18 <sup>0</sup> 40	6 <sup>0</sup> 37
M 26	8 21 5	6 <sup>0</sup> 9'53	6 <sup>0</sup> 3	21 <sup>0</sup> 52	10 <sup>0</sup> 10	0 <sup>18</sup> 14	28 <sup>0</sup> 13	17 <sup>0</sup> 19	11 <sup>0</sup> 8	18 <sup>0</sup> 36	18 <sup>0</sup> 41	6 <sup>0</sup> 38
T 27	8 25 2	7 <sup>0</sup> 10'48	7 <sup>0</sup> 5	25 <sup>0</sup> 56	11 <sup>0</sup> 46	0 <sup>0</sup> 49	28 <sup>0</sup> 18	17 <sup>0</sup> 21	11 <sup>0</sup> 9	18 <sup>0</sup> 36	18 <sup>0</sup> 41	6 <sup>0</sup> 39
W 28	8 28 58	8 <sup>0</sup> 11'42	8 <sup>0</sup> 8	29 <sup>0</sup> 52	13 <sup>0</sup> 22	1 <sup>0</sup> 24	28 <sup>0</sup> 22	17 <sup>0</sup> 24	11 <sup>0</sup> 10	18 <sup>0</sup> 36	18 <sup>0</sup> 41	6 <sup>0</sup> 40
T 29	8 32 55	9 <sup>0</sup> 12'34	9 <sup>0</sup> 11	3 <sup>14</sup> 41	14 <sup>0</sup> 58	1 <sup>0</sup> 58	28 <sup>0</sup> 27	17 <sup>0</sup> 26	11 <sup>0</sup> 10	18 <sup>0</sup> 37	18 <sup>0</sup> 42	6 <sup>0</sup> 40
F 30	8 36 51	10 <sup>0</sup> 13'26	10 <sup>0</sup> 13	7 <sup>0</sup> 24	16 <sup>0</sup> 34	2 <sup>0</sup> 33	28 <sup>0</sup> 31	17 <sup>0</sup> 28	11 <sup>0</sup> 11	18 <sup>0</sup> 37	18 <sup>0</sup> 42	6 <sup>0</sup> 41
S 31	8 40 48	11 <sup>0</sup> 14'16	11 <sup>0</sup> 16	11 <sup>0</sup> 1	18 <sup>11</sup> 10	3 <sup>18</sup> 8	28 <sup>0</sup> 36	17 <sup>0</sup> 30	11 <sup>0</sup> 12	18 <sup>0</sup> 37	18 <sup>0</sup> 43	6 <sup>0</sup> 42

Delta T = 10.10 sec. Greg. Calendar

FEBRUARY 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
S 1	8 44 44	12 <sup>1</sup> 15'04	12 <sup>1</sup> 19	14 <sup>1</sup> 32	19 <sup>11</sup> 46	3 <sup>18</sup> 43	28 <sup>1</sup> 40	17 <sup>1</sup> 32	11 <sup>1</sup> 13	18 <sup>11</sup> 38	18 <sup>1</sup> 43	6 <sup>1</sup> 42
M 2	8 48 41	13 <sup>0</sup> 15'52	13 <sup>0</sup> 21	17 <sup>0</sup> 58	21 <sup>0</sup> 22	4 <sup>0</sup> 17	28 <sup>0</sup> 45	17 <sup>0</sup> 34	11 <sup>0</sup> 13	18 <sup>0</sup> 38	18 <sup>0</sup> 44	6 <sup>0</sup> 43
T 3	8 52 37	14 <sup>0</sup> 16'39	14 <sup>0</sup> 23	21 <sup>0</sup> 19	22 <sup>0</sup> 57	4 <sup>0</sup> 52	28 <sup>0</sup> 49	17 <sup>0</sup> 36	11 <sup>0</sup> 14	18 <sup>0</sup> 39	18 <sup>0</sup> 44	6 <sup>0</sup> 44
W 4	8 56 34	15 <sup>0</sup> 17'24	15 <sup>0</sup> 25	24 <sup>0</sup> 36	24 <sup>0</sup> 33	5 <sup>0</sup> 26	28 <sup>0</sup> 54	17 <sup>0</sup> 38	11 <sup>0</sup> 15	18 <sup>0</sup> 39	18 <sup>0</sup> 44	6 <sup>0</sup> 45
T 5	9 0 31	16 <sup>0</sup> 18'09	16 <sup>0</sup> 27	27 <sup>0</sup> 49	26 <sup>0</sup> 9	6 <sup>0</sup> 1	28 <sup>0</sup> 59	17 <sup>0</sup> 40	11 <sup>0</sup> 15	18 <sup>0</sup> 39	18 <sup>0</sup> 45	6 <sup>0</sup> 45
F 6	9 4 27	17 <sup>0</sup> 18'53	17 <sup>0</sup> 28	0 <sup>11</sup> 58	27 <sup>0</sup> 44	6 <sup>0</sup> 35	29 <sup>0</sup> 3	17 <sup>0</sup> 42	11 <sup>0</sup> 16	18 <sup>0</sup> 40	18 <sup>0</sup> 45	6 <sup>0</sup> 46
S 7	9 8 24	18 <sup>0</sup> 19'35	18 <sup>0</sup> 29	4 <sup>0</sup> 4	29 <sup>0</sup> 20	7 <sup>0</sup> 9	29 <sup>0</sup> 8	17 <sup>0</sup> 44	11 <sup>0</sup> 17	18 <sup>0</sup> 40	18 <sup>0</sup> 46	6 <sup>0</sup> 47
S 8	9 12 20	19 <sup>0</sup> 20'16	19 <sup>0</sup> 29	7 <sup>0</sup> 6	0 <sup>17</sup> 55	7 <sup>0</sup> 44	29 <sup>0</sup> 12	17 <sup>0</sup> 47	11 <sup>0</sup> 18	18 <sup>0</sup> 40	18 <sup>0</sup> 46	6 <sup>0</sup> 48
M 9	9 16 17	20 <sup>0</sup> 20'57	20 <sup>0</sup> 30	10 <sup>0</sup> 6	2 <sup>0</sup> 31	8 <sup>0</sup> 18	29 <sup>0</sup> 17	17 <sup>0</sup> 49	11 <sup>0</sup> 18	18 <sup>0</sup> 41	18 <sup>0</sup> 47	6 <sup>0</sup> 48
T 10	9 20 13	21 <sup>0</sup> 21'36	21 <sup>0</sup> 29	13 <sup>0</sup> 3	4 <sup>0</sup> 6	8 <sup>0</sup> 52	29 <sup>0</sup> 21	17 <sup>0</sup> 51	11 <sup>0</sup> 19	18 <sup>0</sup> 41	18 <sup>0</sup> 47	6 <sup>0</sup> 49
W 11	9 24 10	22 <sup>0</sup> 22'14	22 <sup>0</sup> 29	15 <sup>0</sup> 58	5 <sup>0</sup> 41	9 <sup>0</sup> 26	29 <sup>0</sup> 26	17 <sup>0</sup> 53	11 <sup>0</sup> 20	18 <sup>0</sup> 41	18 <sup>0</sup> 47	6 <sup>0</sup> 50
T 12	9 28 6	23 <sup>0</sup> 22'50	23 <sup>0</sup> 28	18 <sup>0</sup> 50	7 <sup>0</sup> 17	10 <sup>0</sup> 0	29 <sup>0</sup> 31	17 <sup>0</sup> 55	11 <sup>0</sup> 20	18 <sup>0</sup> 42	18 <sup>0</sup> 48	6 <sup>0</sup> 51
F 13	9 32 3	24 <sup>0</sup> 23'26	24 <sup>0</sup> 27	21 <sup>0</sup> 41	8 <sup>0</sup> 52	10 <sup>0</sup> 34	29 <sup>0</sup> 35	17 <sup>0</sup> 57	11 <sup>0</sup> 21	18 <sup>0</sup> 42	18 <sup>0</sup> 48	6 <sup>0</sup> 51
S 14	9 36 0	25 <sup>0</sup> 23'59	25 <sup>0</sup> 25	24 <sup>0</sup> 31	10 <sup>0</sup> 27	11 <sup>0</sup> 8	29 <sup>0</sup> 40	17 <sup>0</sup> 59	11 <sup>0</sup> 22	18 <sup>0</sup> 43	18 <sup>0</sup> 49	6 <sup>0</sup> 52
S 15	9 39 56	26 <sup>0</sup> 24'32	26 <sup>0</sup> 24	27 <sup>0</sup> 19	12 <sup>0</sup> 3	11 <sup>0</sup> 42	29 <sup>0</sup> 44	18 <sup>0</sup> 1	11 <sup>0</sup> 23	18 <sup>0</sup> 43	18 <sup>0</sup> 49	6 <sup>0</sup> 53
M 16	9 43 53	27 <sup>0</sup> 25'02	27 <sup>0</sup> 22	0 <sup>17</sup> 6	13 <sup>0</sup> 38	12 <sup>0</sup> 16	29 <sup>0</sup> 49	18 <sup>0</sup> 3	11 <sup>0</sup> 23	18 <sup>0</sup> 43	18 <sup>0</sup> 49	6 <sup>0</sup> 53
T 17	9 47 49	28 <sup>0</sup> 25'31	28 <sup>0</sup> 21	2 <sup>0</sup> 52	15 <sup>0</sup> 13	12 <sup>0</sup> 50	29 <sup>0</sup> 53	18 <sup>0</sup> 5	11 <sup>0</sup> 24	18 <sup>0</sup> 44	18 <sup>0</sup> 50	6 <sup>0</sup> 54
W 18	9 51 46	29 <sup>0</sup> 25'58	29 <sup>0</sup> 20	5 <sup>0</sup> 37	16 <sup>0</sup> 48	13 <sup>0</sup> 23	29 <sup>0</sup> 58	18 <sup>0</sup> 8	11 <sup>0</sup> 25	18 <sup>0</sup> 44	18 <sup>0</sup> 50	6 <sup>0</sup> 55
T 19	9 55 42	0 <sup>17</sup> 26'23	0 <sup>17</sup> 19	8 <sup>0</sup> 22	18 <sup>0</sup> 23	13 <sup>0</sup> 57	0 <sup>11</sup> 3	18 <sup>0</sup> 10	11 <sup>0</sup> 25	18 <sup>0</sup> 44	18 <sup>0</sup> 51	6 <sup>0</sup> 56
F 20	9 59 39	1 <sup>0</sup> 26'47	1 <sup>0</sup> 19	11 <sup>0</sup> 7	19 <sup>0</sup> 58	14 <sup>0</sup> 31	0 <sup>0</sup> 7	18 <sup>0</sup> 12	11 <sup>0</sup> 26	18 <sup>0</sup> 45	18 <sup>0</sup> 51	6 <sup>0</sup> 56
S 21	10 3 35	2 <sup>0</sup> 27'08	2 <sup>0</sup> 19	13 <sup>0</sup> 52	21 <sup>0</sup> 33	15 <sup>0</sup> 4	0 <sup>0</sup> 12	18 <sup>0</sup> 14	11 <sup>0</sup> 27	18 <sup>0</sup> 45	18 <sup>0</sup> 52	6 <sup>0</sup> 57
S 22	10 7 32	3 <sup>0</sup> 27'27	3 <sup>0</sup> 19	16 <sup>0</sup> 36	23 <sup>0</sup> 8	15 <sup>0</sup> 38	0 <sup>0</sup> 16	18 <sup>0</sup> 16	11 <sup>0</sup> 28	18 <sup>0</sup> 46	18 <sup>0</sup> 52	6 <sup>0</sup> 58
M 23	10 11 29	4 <sup>0</sup> 27'45	4 <sup>0</sup> 20	19 <sup>0</sup> 21	24 <sup>0</sup> 43	16 <sup>0</sup> 11	0 <sup>0</sup> 21	18 <sup>0</sup> 18	11 <sup>0</sup> 28	18 <sup>0</sup> 46	18 <sup>0</sup> 52	6 <sup>0</sup> 59
T 24	10 15 25	5 <sup>0</sup> 28'00	5 <sup>0</sup> 21	22 <sup>0</sup> 7	26 <sup>0</sup> 19	16 <sup>0</sup> 45	0 <sup>0</sup> 25	18 <sup>0</sup> 20	11 <sup>0</sup> 29	18 <sup>0</sup> 46	18 <sup>0</sup> 53	6 <sup>0</sup> 59
W 25	10 19 22	6 <sup>0</sup> 28'13	6 <sup>0</sup> 22	24 <sup>0</sup> 54	27 <sup>0</sup> 53	17 <sup>0</sup> 18	0 <sup>0</sup> 30	18 <sup>0</sup> 22	11 <sup>0</sup> 30	18 <sup>0</sup> 47	18 <sup>0</sup> 53	7 <sup>0</sup> 0
T 26	10 23 18	7 <sup>0</sup> 28'25	7 <sup>0</sup> 24	27 <sup>0</sup> 41	29 <sup>0</sup> 28	17 <sup>0</sup> 51	0 <sup>0</sup> 35	18 <sup>0</sup> 24	11 <sup>0</sup> 30	18 <sup>0</sup> 47	18 <sup>0</sup> 54	7 <sup>0</sup> 1
F 27	10 27 15	8 <sup>0</sup> 28'34	8 <sup>0</sup> 25	0 <sup>13</sup> 30	1 <sup>0</sup> 3	18 <sup>0</sup> 24	0 <sup>0</sup> 39	18 <sup>0</sup> 26	11 <sup>0</sup> 31	18 <sup>0</sup> 47	18 <sup>0</sup> 54	7 <sup>0</sup> 2
S 28	10 31 11	9 <sup>0</sup> 28'41	9 <sup>0</sup> 27	3 <sup>13</sup> 20	2 <sup>0</sup> 38	18 <sup>0</sup> 57	0 <sup>11</sup>					

SWISS EPHEMERIS for the year 1733  
heliocentric

MARCH 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
S 1	10 35 8	10 <sup>m</sup> 28'46	10 <sup>m</sup> 29	6 <sup>h</sup> 11	4 <sup>h</sup> 13	19 <sup>h</sup> 31	0 <sup>m</sup> 48	18 <sup>h</sup> 31	11 <sup>h</sup> 33	18 <sup>h</sup> 48	18 <sup>h</sup> 55	7 <sup>h</sup> 3
M 2	10 39 4	11°28'50	11°31	9° 5	5°48	20° 4	0°53	18°33	11°33	18°48	18°55	7° 4
T 3	10 43 1	12°28'51	12°33	12° 0	7°23	20°37	0°57	18°35	11°34	18°49	18°56	7° 4
W 4	10 46 57	13°28'51	13°34	14°58	8°58	21° 9	1° 2	18°37	11°35	18°49	18°56	7° 5
T 5	10 50 54	14°28'49	14°36	17°59	10°33	21°42	1° 6	18°39	11°35	18°50	18°57	7° 6
F 6	10 54 51	15°28'46	15°37	21° 2	12° 8	22°15	1°11	18°41	11°36	18°50	18°57	7° 7
S 7	10 58 47	16°28'41	16°37	24° 9	13°43	22°48	1°16	18°43	11°37	18°50	18°57	7° 7
S 8	11 2 44	17°28'34	17°38	27°18	15°17	23°20	1°20	18°45	11°38	18°51	18°58	7° 8
M 9	11 6 40	18°28'25	18°38	0 <sup>h</sup> 32	16°52	23°53	1°25	18°47	11°38	18°51	18°58	7° 9
T 10	11 10 37	19°28'15	19°37	3°49	18°27	24°26	1°29	18°49	11°39	18°51	18°59	7°10
W11	11 14 33	20°28'03	20°36	7°11	20° 2	24°58	1°34	18°52	11°40	18°52	18°59	7°10
T 12	11 18 30	21°27'49	21°35	10°37	21°37	25°31	1°38	18°54	11°40	18°52	19° 0	7°11
F 13	11 22 26	22°27'34	22°33	14° 8	23°12	26° 3	1°43	18°56	11°41	18°52	19° 0	7°12
S 14	11 26 23	23°27'17	23°31	17°44	24°46	26°35	1°48	18°58	11°42	18°53	19° 0	7°13
S 15	11 30 20	24°26'58	24°29	21°26	26°21	27° 8	1°52	19° 0	11°43	18°53	19° 1	7°13
M16	11 34 16	25°26'36	25°27	25°14	27°56	27°40	1°57	19° 2	11°43	18°54	19° 1	7°14
T 17	11 38 13	26°26'13	26°24	29° 9	29°31	28°12	2° 1	19° 4	11°44	18°54	19° 2	7°15
W18	11 42 9	27°25'48	27°22	3 <sup>h</sup> 10	1 <sup>h</sup> 8	28°44	2° 6	19° 6	11°45	18°54	19° 2	7°15
T 19	11 46 6	28°25'20	28°20	7°18	2°41	29°16	2°10	19° 8	11°45	18°55	19° 2	7°16
F 20	11 50 2	29°24'51	29°18	11°34	4°15	29°48	2°15	19°10	11°46	18°55	19° 3	7°17
S 21	11 53 59	0 <sup>h</sup> 24'19	0 <sup>h</sup> 16	15°57	5°50	0 <sup>h</sup> 20	2°20	19°13	11°47	18°55	19° 3	7°18
S 22	11 57 55	1°23'45	1°15	20°29	7°25	0°52	2°24	19°15	11°48	18°56	19° 4	7°18
M23	12 1 52	2°23'08	2°14	25° 9	9° 0	1°24	2°29	19°17	11°48	18°56	19° 4	7°19
T 24	12 5 49	3°22'29	3°14	29°58	10°35	1°56	2°33	19°19	11°49	18°56	19° 5	7°20
W25	12 9 45	4°21'48	4°14	4 <sup>h</sup> 56	12°10	2°28	2°38	19°21	11°50	18°57	19° 5	7°21
T 26	12 13 42	5°21'04	5°14	10° 3	13°45	2°59	2°42	19°23	11°50	18°57	19° 5	7°21
F 27	12 17 38	6°20'18	6°15	15°19	15°20	3°31	2°47	19°25	11°51	18°58	19° 6	7°22
S 28	12 21 35	7°19'30	7°15	20°44	16°54	4° 2	2°52	19°27	11°52	18°58	19° 6	7°23
S 29	12 25 31	8°18'39	8°16	26°18	18°29	4°34	2°56	19°29	11°53	18°58	19° 7	7°24
M30	12 29 28	9°17'47	9°17	2 <sup>h</sup> 1	20° 4	5° 5	3° 1	19°31	11°53	18°59	19° 7	7°24
T 31	12 33 24	10 <sup>h</sup> 16'52	10 <sup>h</sup> 18	7 <sup>h</sup> 52	21 <sup>h</sup> 39	5 <sup>h</sup> 37	3 <sup>m</sup> 5	19 <sup>h</sup> 34	11 <sup>h</sup> 54	18 <sup>h</sup> 59	19 <sup>h</sup> 7	7 <sup>h</sup> 25

Delta T = 10.25 sec. Greg. Calendar

APRIL 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
W 1	12 37 21	11 <sup>h</sup> 15'55	11 <sup>h</sup> 19	13 <sup>h</sup> 50	23 <sup>h</sup> 14	6 <sup>h</sup> 11	3 <sup>m</sup> 10	19 <sup>h</sup> 36	11 <sup>h</sup> 55	18 <sup>h</sup> 59	19 <sup>h</sup> 8	7 <sup>h</sup> 26
T 2	12 41 17	12°14'57	12°19	19°54	24°49	6°40	3°15	19°38	11°55	19° 0	19° 8	7°26
F 3	12 45 14	13°13'56	13°20	26° 4	26°24	7°11	3°19	19°40	11°56	19° 0	19° 9	7°27
S 4	12 49 11	14°12'54	14°20	2 <sup>h</sup> 18	27°59	7°42	3°24	19°42	11°57	19° 0	19° 9	7°28
S 5	12 53 7	15°11'50	15°20	8°36	29°34	8°13	3°28	19°44	11°58	19° 1	19°10	7°29
M 6	12 57 4	16°10'44	16°19	14°55	1 <sup>h</sup> 9	8°44	3°33	19°46	11°58	19° 1	19°10	7°29
T 7	13 1 0	17° 9'36	17°19	21°14	2°45	9°15	3°37	19°48	11°59	19° 2	19°10	7°30
W 8	13 4 57	18° 8'27	18°17	27°31	4°20	9°46	3°42	19°50	12° 0	19° 2	19°11	7°31
T 9	13 8 53	19° 7'16	19°16	3 <sup>h</sup> 46	5°55	10°17	3°47	19°52	12° 0	19° 2	19°11	7°32
F 10	13 12 50	20° 6'03	20°13	9°57	7°30	10°48	3°51	19°55	12° 1	19° 3	19°12	7°32
S 11	13 16 46	21° 4'48	21°11	16° 1	9° 5	11°19	3°56	19°57	12° 2	19° 3	19°12	7°33
S 12	13 20 43	22° 3'32	22° 8	21°59	10°40	11°50	4° 0	19°59	12° 3	19° 3	19°12	7°34
M13	13 24 40	23° 2'13	23° 5	27°50	12°15	12°20	4° 5	20° 1	12° 3	19° 4	19°13	7°35
T 14	13 28 36	24° 0'53	24° 2	3 <sup>h</sup> 32	13°51	12°51	4° 9	20° 3	12° 4	19° 4	19°13	7°35
W15	13 32 33	24°59'31	24°58	9° 5	15°26	13°22	4°14	20° 5	12° 5	19° 4	19°14	7°36
T 16	13 36 29	25°58'07	25°55	14°29	17° 1	13°52	4°19	20° 7	12° 5	19° 5	19°14	7°37
F 17	13 40 26	26°56'41	26°52	19°43	18°36	14°23	4°23	20° 9	12° 6	19° 5	19°15	7°38
S 18	13 44 22	27°55'13	27°49	24°47	20°12	14°53	4°28	20°11	12° 7	19° 6	19°15	7°38
S 19	13 48 19	28°53'43	28°46	29°42	21°47	15°24	4°32	20°13	12° 8	19° 6	19°15	7°39
M20	13 52 15	29°52'11	29°44	4 <sup>h</sup> 27	23°22	15°54	4°37	20°16	12° 8	19° 6	19°16	7°40
T 21	13 56 12	0 <sup>h</sup> 50'36	0 <sup>h</sup> 42	9° 3	24°58	16°25	4°42	20°18	12° 9	19° 7	19°16	7°40
W22	14 0 9	1°48'59	1°40	13°31	26°33	16°55	4°46	20°20	12°10	19° 7	19°17	7°41
T 23	14 4 5	2°47'21	2°39	17°49	28° 9	17°25	4°51	20°22	12°10	19° 7	19°17	7°42
F 24	14 8 2	3°45'39	3°38	22° 0	29°44	17°55	4°55	20°24	12°11	19° 8	19°18	7°43
S 25	14 11 58	4°43'56	4°37	26° 3	1 <sup>h</sup> 20	18°25	5° 0	20°26	12°12	19° 8	19°18	7°43
S 26	14 15 55	5°42'11	5°37	29°59	2°55	18°55	5° 4	20°28	12°13	19° 8	19°18	7°44
M27	14 19 51	6°40'24	6°37	3 <sup>h</sup> 48	4°31	19°26	5° 9	20°30	12°13	19° 9	19°19	7°45
T 28	14 23 48	7°38'35	7°37	7°31	6° 6	19°56	5°14	20°32	12°14	19° 9	19°19	7°46
W29	14 27 44	8°36'45	8°36	11° 7	7°42	20°25	5°18	20°35	12°15	19°10	19°20	7°46
T 30	14 31 41	9 <sup>m</sup> 34'52	9 <sup>m</sup> 36	14 <sup>h</sup> 38	9 <sup>h</sup> 17	20 <sup>h</sup> 55	5 <sup>m</sup> 23	20 <sup>h</sup> 37	12 <sup>h</sup> 15	19 <sup>h</sup> 10	19 <sup>h</sup> 20	7 <sup>h</sup> 47

Delta T = 10.34 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1733  
heliocentric

MAY 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
F 1	14 35 38	10♁32°58	10♁36	18♂ 4	10♃°53	21♁25	5♁27	20♃°39	12♂°16	19♁10	19♂20	7♂48
S 2	14 39 34	11°31'03	11°36	21°26	12°29	21°55	5°32	20°41	12°17	19°11	19°21	7°49
S 3	14 43 31	12°29'06	12°35	24°42	14° 4	22°25	5°36	20°43	12°18	19°11	19°21	7°49
M 4	14 47 27	13°27'07	13°34	27°55	15°40	22°55	5°41	20°45	12°18	19°11	19°22	7°50
T 5	14 51 24	14°25'07	14°33	1♁ 4	17°16	23°24	5°46	20°47	12°19	19°12	19°22	7°51
W 6	14 55 20	15°23'06	15°32	4° 9	18°51	23°54	5°50	20°49	12°20	19°12	19°23	7°52
T 7	14 59 17	16°21'03	16°30	7°12	20°27	24°23	5°55	20°51	12°20	19°13	19°23	7°52
F 8	15 3 13	17°18'59	17°27	10°11	22° 3	24°53	5°59	20°53	12°21	19°13	19°23	7°53
S 9	15 7 10	18°16'54	18°25	13° 8	23°39	25°22	6° 4	20°56	12°22	19°13	19°24	7°54
S 10	15 11 7	19°14'47	19°21	16° 3	25°15	25°52	6° 9	20°58	12°23	19°14	19°24	7°55
M 11	15 15 3	20°12'39	20°18	18°56	26°51	26°21	6°13	21° 0	12°23	19°14	19°25	7°55
T 12	15 19 0	21°10'30	21°14	21°47	28°27	26°51	6°18	21° 2	12°24	19°14	19°25	7°56
W 13	15 22 56	22° 8'20	22°10	24°36	0♂ 2	27°20	6°22	21° 4	12°25	19°15	19°25	7°57
T 14	15 26 53	23° 6'08	23° 6	27°24	1°38	27°49	6°27	21° 6	12°25	19°15	19°26	7°58
F 15	15 30 49	24° 3'55	24° 1	0♂11	3°14	28°18	6°32	21° 8	12°26	19°15	19°26	7°58
S 16	15 34 46	25° 1'41	24°57	2°57	4°50	28°48	6°36	21°10	12°27	19°16	19°27	7°59
S 17	15 38 42	25°59'24	25°53	5°42	6°26	29°17	6°41	21°12	12°28	19°16	19°27	8° 0
M 18	15 42 39	26°57'07	26°50	8°27	8° 3	29°46	6°45	21°15	12°28	19°17	19°28	8° 0
T 19	15 46 36	27°54'48	27°47	11°12	9°39	0♁15	6°50	21°17	12°29	19°17	19°28	8° 1
W 20	15 50 32	28°52'27	28°44	13°57	11°15	0°44	6°54	21°19	12°30	19°17	19°28	8° 2
T 21	15 54 29	29°50'04	29°41	16°42	12°51	1°13	6°59	21°21	12°30	19°18	19°29	8° 3
F 22	15 58 25	0♂47'40	0♂39	19°27	14°27	1°42	7° 4	21°23	12°31	19°18	19°29	8° 3
S 23	16 2 22	1°45'15	1°37	22°12	16° 3	2°11	7° 8	21°25	12°32	19°18	19°30	8° 4
S 24	16 6 18	2°42'48	2°36	24°59	17°40	2°40	7°13	21°27	12°33	19°19	19°30	8° 5
M 25	16 10 15	3°40'20	3°34	27°46	19°16	3° 8	7°17	21°29	12°33	19°19	19°31	8° 6
T 26	16 14 11	4°37'50	4°33	0♁35	20°52	3°37	7°22	21°31	12°34	19°19	19°31	8° 6
W 27	16 18 8	5°35'20	5°32	3°25	22°28	4° 6	7°27	21°34	12°35	19°20	19°31	8° 7
T 28	16 22 5	6°32'48	6°31	6°17	24° 5	4°35	7°31	21°36	12°35	19°20	19°32	8° 8
F 29	16 26 1	7°30'15	7°31	9°10	25°41	5° 3	7°36	21°38	12°36	19°21	19°32	8° 9
S 30	16 29 58	8°27'41	8°30	12° 6	27°18	5°32	7°40	21°40	12°37	19°21	19°33	8° 9
S 31	16 33 54	9♂25'06	9♂29	15♁ 4	28♂54	6♁ 0	7♁45	21♃°42	12♂°38	19♁21	19♂33	8♂10

Delta T = 10.42 sec.

Greg. Calendar

JUNE 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
M 1	16 37 51	10♂22°31	10♂28	18♁ 5	0♁31	6♁29	7♁50	21♃°44	12♂°38	19♁22	19♂33	8♂11
T 2	16 41 47	11°19'54	11°26	21° 8	2° 7	6°57	7°54	21°46	12°39	19°22	19°34	8°12
W 3	16 45 44	12°17'17	12°25	24°14	3°44	7°26	7°59	21°48	12°40	19°22	19°34	8°12
T 4	16 49 40	13°14'40	13°23	27°24	5°20	7°54	8° 3	21°50	12°40	19°23	19°35	8°13
F 5	16 53 37	14°12'01	14°20	0♁38	6°57	8°23	8° 8	21°53	12°41	19°23	19°35	8°14
S 6	16 57 34	15° 9'22	15°18	3°55	8°33	8°51	8°13	21°55	12°42	19°23	19°36	8°15
S 7	17 1 30	16° 6'43	16°15	7°17	10°10	9°19	8°17	21°57	12°43	19°24	19°36	8°15
M 8	17 5 27	17° 4'03	17°11	10°43	11°47	9°48	8°22	21°59	12°43	19°24	19°36	8°16
T 9	17 9 23	18° 1'23	18° 7	14°15	13°24	10°16	8°26	22° 1	12°44	19°25	19°37	8°17
W 10	17 13 20	18°58'43	19° 3	17°51	15° 0	10°44	8°31	22° 3	12°45	19°25	19°37	8°18
T 11	17 17 16	19°56'02	19°58	21°33	16°37	11°12	8°35	22° 5	12°45	19°25	19°38	8°18
F 12	17 21 13	20°53'20	20°53	25°22	18°14	11°40	8°40	22° 7	12°46	19°26	19°38	8°19
S 13	17 25 9	21°50'38	21°49	29°16	19°51	12° 9	8°45	22° 9	12°47	19°26	19°39	8°20
S 14	17 29 6	22°47'55	22°44	3♁18	21°28	12°37	8°49	22°12	12°48	19°26	19°39	8°21
M 15	17 33 3	23°45'12	23°40	7°26	23° 4	13° 5	8°54	22°14	12°48	19°27	19°39	8°21
T 16	17 36 59	24°42'28	24°36	11°42	24°41	13°33	8°58	22°16	12°49	19°27	19°40	8°22
W 17	17 40 56	25°39'43	25°32	16° 6	26°18	14° 1	9° 3	22°18	12°50	19°28	19°40	8°23
T 18	17 44 52	26°36'57	26°28	20°38	27°55	14°29	9° 8	22°20	12°50	19°28	19°41	8°24
F 19	17 48 49	27°34'11	27°25	25°18	29°32	14°57	9°12	22°22	12°51	19°28	19°41	8°24
S 20	17 52 45	28°31'24	28°22	0♃°7	1♁ 9	15°24	9°17	22°24	12°52	19°29	19°41	8°25
S 21	17 56 42	29°28'36	29°20	5° 5	2°46	15°52	9°21	22°26	12°53	19°29	19°42	8°26
M 22	18 0 38	0♁25'48	0♁18	10°13	4°24	16°20	9°26	22°28	12°53	19°29	19°42	8°26
T 23	18 4 35	1°23'00	1°16	15°29	6° 1	16°48	9°31	22°31	12°54	19°30	19°43	8°27
W 24	18 8 32	2°20'11	2°15	20°55	7°38	17°16	9°35	22°33	12°55	19°30	19°43	8°28
T 25	18 12 28	3°17'21	3°13	26°29	9°15	17°43	9°40	22°35	12°55	19°30	19°44	8°29
F 26	18 16 25	4°14'32	4°12	2♁12	10°52	18°11	9°44	22°37	12°56	19°31	19°44	8°29
S 27	18 20 21	5°11'42	5°11	8° 3	12°29	18°39	9°49	22°39	12°57	19°31	19°44	8°30
S 28	18 24 18	6° 8'52	6°10	14° 1	14° 7	19° 6	9°54	22°41	12°58	19°32	19°45	8°31
M 29	18 28 14	7° 6'02	7° 9	20° 5	15°44	19°34	9°58	22°43	12°58	19°32	19°45	8°32
T 30	18 32 11	8♁ 3'12	8♁ 8	26♁16	17♁21	20♁ 1	10♁ 3	22♃°45	12♂°59	19♁32	19♂46	8♂32

Delta T = 10.51 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1733  
heliocentric

JULY 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
W 1	18 36 8	9♁ 0'22	9♁ 6	2II30	18♁59	20♁29	10♁ 7	22♁47	13♁ 0	19II33	19♁46	8♁33
T 2	18 40 4	9°57'33	10° 5	8°47	20°36	20°56	10°12	22°50	13° 0	19°33	19°47	8°34
F 3	18 44 1	10°54'43	11° 3	15° 6	22°13	21°24	10°17	22°52	13° 1	19°33	19°47	8°35
S 4	18 47 57	11°51'54	12° 0	21°26	23°51	21°51	10°21	22°54	13° 2	19°34	19°47	8°35
S 5	18 51 54	12°49'06	12°57	27°43	25°28	22°19	10°26	22°56	13° 3	19°34	19°48	8°36
M 6	18 55 50	13°46'18	13°54	3♁58	27° 6	22°46	10°30	22°58	13° 3	19°34	19°48	8°37
T 7	18 59 47	14°43'30	14°51	10° 8	28°43	23°14	10°35	23° 0	13° 4	19°35	19°49	8°38
W 8	19 3 43	15°40'43	15°47	16°13	0♁20	23°41	10°40	23° 2	13° 5	19°35	19°49	8°38
T 9	19 7 40	16°37'57	16°42	22°10	1°58	24° 8	10°44	23° 4	13° 5	19°36	19°49	8°39
F 10	19 11 37	17°35'11	17°38	28° 1	3°35	24°36	10°49	23° 6	13° 6	19°36	19°50	8°40
S 11	19 15 33	18°32'25	18°33	3♁42	5°13	25° 3	10°53	23° 9	13° 7	19°36	19°50	8°41
S 12	19 19 30	19°29'40	19°28	9°15	6°50	25°30	10°58	23°11	13° 8	19°37	19°51	8°41
M13	19 23 26	20°26'55	20°24	14°38	8°28	25°57	11° 3	23°13	13° 8	19°37	19°51	8°42
T 14	19 27 23	21°24'10	21°19	19°52	10° 5	26°24	11° 7	23°15	13° 9	19°37	19°52	8°43
W15	19 31 19	22°21'25	22°15	24°56	11°43	26°52	11°12	23°17	13°10	19°38	19°52	8°44
T 16	19 35 16	23°18'41	23°11	29°51	13°20	27°19	11°17	23°19	13°10	19°38	19°52	8°44
F 17	19 39 12	24°15'57	24° 8	4♁36	14°58	27°46	11°21	23°21	13°11	19°39	19°53	8°45
S 18	19 43 9	25°13'14	25° 4	9°12	16°36	28°13	11°26	23°23	13°12	19°39	19°53	8°46
S 19	19 47 6	26°10'30	26° 1	13°39	18°13	28°40	11°30	23°26	13°13	19°39	19°54	8°47
M20	19 51 2	27° 7'47	26°59	17°57	19°51	29° 7	11°35	23°28	13°13	19°40	19°54	8°47
T 21	19 54 59	28° 5'05	27°57	22° 8	21°28	29°34	11°40	23°30	13°14	19°40	19°55	8°48
W22	19 58 55	29° 2'22	28°55	26°11	23° 6	0♁ 1	11°44	23°32	13°15	19°40	19°55	8°49
T 23	20 2 52	29°59'41	29°53	0♁ 6	24°43	0°28	11°49	23°34	13°15	19°41	19°55	8°50
F 24	20 6 48	0♁57'00	0♁52	3°55	26°21	0°55	11°53	23°36	13°16	19°41	19°56	8°50
S 25	20 10 45	1°54'19	1°51	7°38	27°58	1°22	11°58	23°38	13°17	19°41	19°56	8°51
S 26	20 14 41	2°51'39	2°50	11°14	29°36	1°49	12° 3	23°40	13°17	19°42	19°57	8°52
M27	20 18 38	3°49'00	3°49	14°45	1♁13	2°16	12° 7	23°42	13°18	19°42	19°57	8°53
T 28	20 22 35	4°46'22	4°48	18°11	2°51	2°43	12°12	23°45	13°19	19°43	19°57	8°53
W29	20 26 31	5°43'45	5°48	21°32	4°28	3°10	12°16	23°47	13°20	19°43	19°58	8°54
T 30	20 30 28	6°41'08	6°46	24°49	6° 6	3°36	12°21	23°49	13°20	19°43	19°58	8°55
F 31	20 34 24	7♁38'33	7♁45	28♁ 1	7♁43	4♁ 3	12♁26	23♁51	13♁21	19II44	19♁59	8♁56

Delta T = 10.60 sec.

Greg. Calendar

AUGUST 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
S 1	20 38 21	8♁35'59	8♁44	1♁10	9♁21	4♁30	12♁30	23♁53	13♁22	19II44	19♁59	8♁56
S 2	20 42 17	9°33'26	9°42	4°15	10°58	4°57	12°35	23°55	13°22	19°44	20° 0	8°57
M 3	20 46 14	10°30'55	10°39	7°18	12°36	5°24	12°39	23°57	13°23	19°45	20° 0	8°58
T 4	20 50 10	11°28'25	11°37	10°17	14°13	5°50	12°44	23°59	13°24	19°45	20° 0	8°59
W 5	20 54 7	12°25'56	12°33	13°14	15°50	6°17	12°49	24° 2	13°25	19°45	20° 1	8°59
T 6	20 58 4	13°23'29	13°30	16° 9	17°28	6°44	12°53	24° 4	13°25	19°46	20° 1	9° 0
F 7	21 2 0	14°21'04	14°26	19° 1	19° 5	7°10	12°58	24° 6	13°26	19°46	20° 2	9° 1
S 8	21 5 57	15°18'39	15°22	21°52	20°42	7°37	13° 3	24° 8	13°27	19°47	20° 2	9° 2
S 9	21 9 53	16°16'16	16°18	24°41	22°20	8° 4	13° 7	24°10	13°27	19°47	20° 3	9° 2
M10	21 13 50	17°13'54	17°14	27°29	23°57	8°30	13°12	24°12	13°28	19°47	20° 3	9° 3
T 11	21 17 46	18°11'33	18° 9	0♁16	25°34	8°57	13°16	24°14	13°29	19°48	20° 3	9° 4
W12	21 21 43	19° 9'14	19° 5	3° 2	27°11	9°24	13°21	24°16	13°30	19°48	20° 4	9° 5
T 13	21 25 39	20° 6'55	20° 1	5°48	28°48	9°50	13°26	24°18	13°30	19°48	20° 4	9° 5
F 14	21 29 36	21° 4'38	20°58	8°33	0♁25	10°17	13°30	24°21	13°31	19°49	20° 5	9° 6
S 15	21 33 33	22° 2'22	21°54	11°17	2° 2	10°43	13°35	24°23	13°32	19°49	20° 5	9° 7
S 16	21 37 29	23° 0'07	22°51	14° 2	3°40	11°10	13°39	24°25	13°32	19°49	20° 5	9° 8
M17	21 41 26	23°57'53	23°49	16°47	5°17	11°36	13°44	24°27	13°33	19°50	20° 6	9° 8
T 18	21 45 22	24°55'41	24°47	19°32	6°53	12° 3	13°49	24°29	13°34	19°50	20° 6	9° 9
W19	21 49 19	25°53'29	25°45	22°18	8°30	12°29	13°53	24°31	13°35	19°51	20° 7	9°10
T 20	21 53 15	26°51'19	26°43	25° 4	10° 7	12°56	13°58	24°33	13°35	19°51	20° 7	9°11
F 21	21 57 12	27°49'10	27°42	27°52	11°44	13°22	14° 3	24°35	13°36	19°51	20° 8	9°11
S 22	22 1 8	28°47'03	28°41	0♁40	13°21	13°49	14° 7	24°38	13°37	19°52	20° 8	9°12
S 23	22 5 5	29°44'56	29°41	3°31	14°58	14°15	14°12	24°40	13°37	19°52	20° 8	9°13
M24	22 9 2	0♁42'51	0♁40	6°22	16°34	14°42	14°16	24°42	13°38	19°52	20° 9	9°14
T 25	22 12 58	1°40'48	1°40	9°16	18°11	15° 8	14°21	24°44	13°39	19°53	20° 9	9°14
W26	22 16 55	2°38'46	2°40	12°12	19°48	15°35	14°26	24°46	13°40	19°53	20°10	9°15
T 27	22 20 51	3°36'46	3°40	15°10	21°24	16° 1	14°30	24°48	13°40	19°53	20°10	9°16
F 28	22 24 48	4°34'47	4°40	18°10	23° 1	16°27	14°35	24°50	13°41	19°54	20°11	9°17
S 29	22 28 44	5°32'51	5°39	21°14	24°37	16°54	14°39	24°52	13°42	19°54	20°11	9°17
S 30	22 32 41	6°30'56	6°38	24°20	26°14	17°20	14°44	24°55	13°42	19°55	20°11	9°18
M31	22 36 37	7♁29'03	7♁37	27♁30	27♁50	17♁46	14♁49	24♁57	13♁43	19II55	20♁12	9♁19

Delta T = 10.70 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1733  
heliocentric

SEPTEMBER 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
T 1	22 40 34	8♂27'13	8♂36	0♂44	29♂27	18♂13	14♂53	24♂59	13♂44	19♂55	20♂12	9♂20
W 2	22 44 30	9°25'24	9°34	4° 2	1♂. 3	18°39	14°58	25° 1	13°45	19°56	20°13	9°20
T 3	22 48 27	10°23'38	10°31	7°23	2°39	19° 5	15° 3	25° 3	13°45	19°56	20°13	9°21
F 4	22 52 24	11°21'54	11°29	10°50	4°15	19°32	15° 7	25° 5	13°46	19°56	20°13	9°22
S 5	22 56 20	12°20'11	12°26	14°21	5°51	19°58	15°12	25° 7	13°47	19°57	20°14	9°23
S 6	23 0 17	13°18'31	13°23	17°58	7°28	20°24	15°16	25° 9	13°47	19°57	20°14	9°23
M 7	23 4 13	14°16'52	14°19	21°41	9° 4	20°51	15°21	25°11	13°48	19°58	20°15	9°24
T 8	23 8 10	15°15'16	15°16	25°29	10°40	21°17	15°26	25°14	13°49	19°58	20°15	9°25
W 9	23 12 6	16°13'41	16°12	29°24	12°16	21°43	15°30	25°16	13°50	19°58	20°16	9°26
T 10	23 16 3	17°12'08	17° 9	3♂25	13°52	22°10	15°35	25°18	13°50	19°59	20°16	9°26
F 11	23 19 59	18°10'37	18° 6	7°34	15°28	22°36	15°40	25°20	13°51	19°59	20°16	9°27
S 12	23 23 56	19° 9'08	19° 3	11°50	17° 3	23° 2	15°44	25°22	13°52	19°59	20°17	9°28
S 13	23 27 53	20° 7'40	20° 0	16°14	18°39	23°28	15°49	25°24	13°52	20° 0	20°17	9°29
M14	23 31 49	21° 6'15	20°58	20°46	20°15	23°55	15°53	25°26	13°53	20° 0	20°18	9°29
T 15	23 35 46	22° 4'50	21°56	25°27	21°51	24°21	15°58	25°28	13°54	20° 0	20°18	9°30
W16	23 39 42	23° 3'28	22°54	0♂17	23°26	24°47	16° 3	25°31	13°55	20° 1	20°18	9°31
T 17	23 43 39	24° 2'08	23°53	5°15	25° 2	25°13	16° 7	25°33	13°55	20° 1	20°19	9°32
F 18	23 47 35	25° 0'49	24°52	10°23	26°38	25°40	16°12	25°35	13°56	20° 2	20°19	9°32
S 19	23 51 32	25°59'31	25°52	15°39	28°13	26° 6	16°17	25°37	13°57	20° 2	20°20	9°33
S 20	23 55 28	26°58'16	26°52	21° 5	29°49	26°32	16°21	25°39	13°57	20° 2	20°20	9°34
M21	23 59 25	27°57'02	27°52	26°39	1♂24	26°58	16°26	25°41	13°58	20° 3	20°21	9°35
T 22	0 3 22	28°55'50	28°53	2♂23	3° 0	27°25	16°30	25°43	13°59	20° 3	20°21	9°35
W23	0 7 18	29°54'40	29°53	8°14	4°35	27°51	16°35	25°45	13°59	20° 3	20°21	9°36
T 24	0 11 15	0♂53'32	0♂54	14°12	6°10	28°17	16°40	25°48	14° 0	20° 4	20°22	9°37
F 25	0 15 11	1°52'26	1°55	20°17	7°46	28°43	16°44	25°50	14° 1	20° 4	20°22	9°38
S 26	0 19 8	2°51'22	2°56	26°27	9°21	29° 9	16°49	25°52	14° 2	20° 4	20°23	9°38
S 27	0 23 4	3°50'20	3°56	2♂42	10°56	29°36	16°54	25°54	14° 2	20° 5	20°23	9°39
M28	0 27 1	4°49'21	4°57	8°59	12°32	0♂2	16°58	25°56	14° 3	20° 5	20°24	9°40
T 29	0 30 57	5°48'24	5°56	15°18	14° 7	0°28	17° 3	25°58	14° 4	20° 6	20°24	9°41
W30	0 34 54	6♂47'29	6♂56	21♂37	15♂42	0♂54	17♂. 8	26♂0	14♂. 4	20♂. 6	20♂.24	9♂.41

Delta T = 10.79 sec.

Greg. Calendar

OCTOBER 1733

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
T 1	0 38 50	7♂46'37	7♂55	27♂55	17♂17	1♂20	17♂.12	26♂0 2	14♂. 5	20♂. 6	20♂.25	9♂.42
F 2	0 42 47	8°45'47	8°54	4♂. 9	18°52	1°47	17°17	26° 5	14° 6	20° 7	20°25	9°43
S 3	0 46 44	9°45'00	9°52	10°20	20°27	2°13	17°21	26° 7	14° 7	20° 7	20°26	9°44
S 4	0 50 40	10°44'14	10°51	16°24	22° 2	2°39	17°26	26° 9	14° 7	20° 7	20°26	9°44
M 5	0 54 37	11°43'31	11°49	22°22	23°37	3° 5	17°31	26°11	14° 8	20° 8	20°26	9°45
T 6	0 58 33	12°42'50	12°46	28°12	25°12	3°31	17°35	26°13	14° 9	20° 8	20°27	9°46
W 7	1 2 30	13°42'11	13°44	3♂53	26°47	3°58	17°40	26°15	14° 9	20° 8	20°27	9°47
T 8	1 6 26	14°41'35	14°41	9°25	28°22	4°24	17°45	26°17	14°10	20° 9	20°28	9°47
F 9	1 10 23	15°41'00	15°39	14°48	29°57	4°50	17°49	26°19	14°11	20° 9	20°28	9°48
S 10	1 14 19	16°40'28	16°37	20° 2	1♂32	5°16	17°54	26°22	14°12	20°10	20°29	9°49
S 11	1 18 16	17°39'57	17°35	25° 6	3° 7	5°43	17°58	26°24	14°12	20°10	20°29	9°50
M12	1 22 13	18°39'28	18°33	29°59	4°42	6° 9	18° 3	26°26	14°13	20°10	20°29	9°51
T 13	1 26 9	19°39'02	19°31	4♂45	6°17	6°35	18° 8	26°28	14°14	20°11	20°30	9°51
W14	1 30 6	20°38'37	20°30	9°20	7°52	7° 1	18°12	26°30	14°14	20°11	20°30	9°52
T 15	1 34 2	21°38'14	21°29	13°47	9°27	7°28	18°17	26°32	14°15	20°11	20°31	9°53
F 16	1 37 59	22°37'52	22°29	18° 5	11° 2	7°54	18°22	26°34	14°16	20°12	20°31	9°54
S 17	1 41 55	23°37'33	23°29	22°16	12°37	8°20	18°26	26°36	14°17	20°12	20°32	9°54
S 18	1 45 52	24°37'15	24°29	26°18	14°11	8°46	18°31	26°39	14°17	20°12	20°32	9°55
M19	1 49 48	25°36'59	25°30	0♂14	15°46	9°13	18°36	26°41	14°18	20°13	20°32	9°56
T 20	1 53 45	26°36'44	26°31	4° 2	17°21	9°39	18°40	26°43	14°19	20°13	20°33	9°57
W21	1 57 42	27°36'31	27°32	7°45	18°56	10° 5	18°45	26°45	14°19	20°14	20°33	9°57
T 22	2 1 38	28°36'20	28°34	11°21	20°31	10°31	18°49	26°47	14°20	20°14	20°34	9°58
F 23	2 5 35	29°36'11	29°36	14°52	22° 6	10°58	18°54	26°49	14°21	20°14	20°34	9°59
S 24	2 9 31	0♂36'04	0♂38	18°17	23°40	11°24	18°59	26°51	14°22	20°15	20°34	10° 0
S 25	2 13 28	1°35'59	1°40	21°38	25°15	11°50	19° 3	26°53	14°22	20°15	20°35	10° 0
M26	2 17 24	2°35'57	2°41	24°55	26°50	12°16	19° 8	26°56	14°23	20°15	20°35	10° 1
T 27	2 21 21	3°35'56	3°43	28° 7	28°25	12°43	19°13	26°58	14°24	20°16	20°36	10° 2
W28	2 25 17	4°35'57	4°44	1♂.16	29°59	13° 9	19°17	27° 0	14°24	20°16	20°36	10° 3
T 29	2 29 14	5°36'01	5°45	4°21	1♂.35	13°35	19°22	27° 2	14°25	20°16	20°37	10° 3
F 30	2 33 11	6°36'07	6°45	7°23	3° 9	14° 2	19°27	27° 4	14°26	20°17	20°37	10° 4
S 31	2 37 7	7♂36'15	7♂.45	10♂.23	4♂.44	14♂.28	19♂.31	27♂0 6	14♂.26	20♂.17	20♂.37	10♂.5

Delta T = 10.87 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1733  
heliocentric

NOVEMBER 1733

00:00 UT

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

Delta T = 10.96 sec.

Greg. Calendar

DECEMBER 1733

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♅	♁	♆	♄	♁	♁
T 1	4 39 20	8♁53'43	9♁2	10♁57	23♁52	28♁11	21♁55	28♁12	14♁49	20♁29	20♁50	10♁28	
W 2	4 43 17	9°54'40	10°2	14°28	25°27	28°38	22°0	28°14	14°49	20°29	20°51	10°29	
T 3	4 47 13	10°55'37	11°1	18°5	27°2	29°5	22°5	28°17	14°50	20°29	20°51	10°30	
F 4	4 51 10	11°56'35	12°1	21°48	28°38	29°31	22°9	28°19	14°51	20°30	20°52	10°31	
S 5	4 55 7	12°57'35	13°0	25°36	0♁13	29°58	22°14	28°21	14°51	20°30	20°52	10°32	
S 6	4 59 3	13°58'36	13°59	29°31	1°49	0♁25	22°19	28°23	14°52	20°30	20°53	10°32	
M 7	5 3 0	14°59'37	14°59	3♁33	3°24	0°52	22°23	28°25	14°53	20°31	20°53	10°33	
T 8	5 6 56	16°0'40	15°58	7°42	5°0	1°19	22°28	28°27	14°54	20°31	20°53	10°34	
W 9	5 10 53	17°1'43	16°57	11°58	6°35	1°46	22°33	28°29	14°54	20°31	20°54	10°35	
T 10	5 14 49	18°2'46	17°57	16°23	8°11	2°13	22°37	28°32	14°55	20°32	20°54	10°35	
F 11	5 18 46	19°3'51	18°57	20°55	9°46	2°40	22°42	28°34	14°56	20°32	20°55	10°36	
S 12	5 22 42	20°4'56	19°57	25°36	11°22	3°7	22°47	28°36	14°56	20°33	20°55	10°37	
S 13	5 26 39	21°6'01	20°57	0♁26	12°58	3°34	22°51	28°38	14°57	20°33	20°56	10°38	
M 14	5 30 36	22°7'06	21°58	5°25	14°33	4°1	22°56	28°40	14°58	20°33	20°56	10°38	
T 15	5 34 32	23°8'12	23°0	10°32	16°9	4°28	23°1	28°42	14°58	20°34	20°56	10°39	
W 16	5 38 29	24°9'18	24°1	15°49	17°45	4°55	23°5	28°44	14°59	20°34	20°57	10°40	
T 17	5 42 25	25°10'24	25°3	21°15	19°21	5°22	23°10	28°47	15°0	20°34	20°57	10°41	
F 18	5 46 22	26°11'31	26°6	26°50	20°56	5°49	23°15	28°49	15°1	20°35	20°58	10°41	
S 19	5 50 18	27°12'38	27°9	2♁33	22°32	6°17	23°19	28°51	15°1	20°35	20°58	10°42	
S 20	5 54 15	28°13'45	28°12	8°25	24°8	6°44	23°24	28°53	15°2	20°35	20°58	10°43	
M 21	5 58 11	29°14'52	29°15	14°23	25°44	7°11	23°29	28°55	15°3	20°36	20°59	10°44	
T 22	6 2 8	0♁16'00	0♁18	20°28	27°20	7°38	23°33	28°57	15°3	20°36	20°59	10°45	
W 23	6 6 5	1°17'08	1°21	26°39	28°56	8°6	23°38	28°59	15°4	20°37	21°0	10°45	
T 24	6 10 1	2°18'17	2°24	2♁54	0♁32	8°33	23°43	29°1	15°5	20°37	21°0	10°46	
F 25	6 13 58	3°19'26	3°27	9°11	2°8	9°0	23°47	29°4	15°6	20°37	21°1	10°47	
S 26	6 17 54	4°20'35	4°29	15°30	3°44	9°28	23°52	29°6	15°6	20°38	21°1	10°48	
S 27	6 21 51	5°21'45	5°31	21°49	5°20	9°55	23°57	29°8	15°7	20°38	21°1	10°48	
M 28	6 25 47	6°22'55	6°32	28°7	6°56	10°22	24°1	29°10	15°8	20°38	21°2	10°49	
T 29	6 29 44	7°24'05	7°33	4♁21	8°32	10°50	24°6	29°12	15°8	20°39	21°2	10°50	
W 30	6 33 40	8°25'16	8°34	10°31	10°8	11°17	24°11	29°14	15°9	20°39	21°3	10°51	
T 31	6 37 37	9♁26'27	9♁34	16♁35	11♁44	11♁45	24♁15	29♁16	15♁10	20♁40	21♁3	10♁51	

Delta T = 11.04 sec.

Greg. Calendar

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