

SWISS EPHEMERIS for the year 1664

JANUARY 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	6 41 21	10 ²⁷ 27'06	7 ²² 26	26 ²⁷ 50	1 ²⁷ 12	4 ¹¹ 1	29 ²⁷ 27	21 ²⁷ 22	10 ²⁷ 27	15 ²⁵ 7	24 ¹⁹ 3	21 ¹⁹ R48	23 ¹⁹ Ω38	1 ²⁷ 44	8 ²⁷ 11
W 2	6 45 18	11 ²⁸ 18	19 ²⁶ 21	28 ²¹ 2	1 ⁴² 3	4 ³ 3	29 ⁴¹ 2	21 ²⁸ 2	10 ³⁰ 3	15 ⁹ 9	24 ¹¹ 2	21 ¹⁹ D46	23 ³⁵ 5	1 ⁵¹ 1	8 ¹⁵ 15
T 3	6 49 15	12 ²⁹ 29	1 ³⁵ 35	29 ⁵² 2	2 ¹⁴ 4	4 ⁵ 5	29 ⁵⁵ 2	21 ³⁵ 10	10 ³³ 15	15 ¹¹ 11	24 ¹ 1	21 ¹⁹ Ω47	23 ³¹ 1	1 ⁵⁸ 8	8 ²⁰ 20
F 4	6 53 11	13 ³⁰ 39	13 ⁵⁵ 5	1 ²⁴ 24	2 ⁴⁷ 4	4 ⁵ 5	0 ²⁸ 8	21 ⁴² 10	10 ³⁶ 15	15 ¹⁴ 14	24 ⁰ 0	21 ¹⁹ Ω48	23 ²⁸ 2	2 ⁴ 4	8 ²⁴ 24
S 5	6 57 8	14 ³¹ 50	26 ³⁰ 0	2 ⁵⁶ 6	3 ²² 3	4 ⁵ 5	0 ²² 2	21 ⁴⁹ 10	10 ⁴⁰ 15	15 ¹⁶ 16	23 ⁵⁹ 21	21 ¹⁹ Ω50	23 ²⁵ 3	2 ¹¹ 11	8 ²⁸ 28
S 6	7 1 4	15 ³² 59	9 ²⁵ 25	4 ²⁹ 4	3 ⁵⁸ 3	4 ⁴ 4	0 ³⁶ 3	21 ⁵⁵ 10	10 ⁴³ 15	15 ¹⁸ 18	23 ⁵⁸ 21	21 ¹⁹ R51	23 ²² 3	2 ¹⁸ 18	8 ³³ 33
M 7	7 5 1	16 ³⁴ 08	22 ⁴³ 7	6 ² 2	4 ³⁵ 4	4 ² 2	0 ⁴⁹ 4	22 ² 2	10 ⁴⁶ 15	15 ²⁰ 20	23 ⁵⁷ 21	21 ¹⁹ Ω51	23 ¹⁹ 3	2 ²⁵ 25	8 ³⁷ 37
T 8	7 8 57	17 ³⁵ 17	6 ²⁷ 27	7 ³⁵ 7	5 ¹⁴ 5	4 ⁰ 0	1 ³ 3	22 ⁹ 9	10 ⁴⁹ 15	15 ²³ 23	23 ⁵⁶ 21	21 ¹⁹ Ω50	23 ¹⁶ 3	2 ³¹ 31	8 ⁴¹ 41
W 9	7 12 54	18 ³⁶ 24	20 ³⁸ 9	9 ⁹ 9	5 ⁵⁴ 5	3 ⁵⁶ 3	1 ¹⁶ 1	22 ¹⁵ 10	10 ⁵³ 15	15 ²⁵ 25	23 ⁵⁴ 21	21 ¹⁹ Ω47	23 ¹² 3	2 ³⁸ 38	8 ⁴⁶ 46
T 10	7 16 50	19 ³⁷ 32	5 ¹¹ 14	10 ⁴⁴ 10	6 ³⁵ 6	3 ⁵² 3	1 ³⁰ 1	22 ²² 10	10 ⁵⁶ 15	15 ²⁷ 27	23 ⁵³ 21	21 ¹⁹ Ω42	23 ⁹ 3	2 ⁴⁵ 45	8 ⁵⁰ 50
F 11	7 20 47	20 ³⁸ 38	20 ¹¹ 11	12 ¹⁹ 12	7 ¹⁷ 7	3 ⁴⁷ 3	1 ⁴³ 1	22 ²⁸ 10	10 ⁵⁹ 15	15 ³⁰ 30	23 ⁵² 21	21 ¹⁹ Ω38	23 ⁶ 3	2 ⁵¹ 51	8 ⁵⁵ 55
S 12	7 24 44	21 ³⁹ 44	5 ²² 22	13 ⁵⁴ 13	8 ¹ 1	3 ⁴² 3	1 ⁵⁷ 1	22 ³⁵ 11	11 ³ 3	15 ³² 32	23 ⁵¹ 21	21 ¹⁹ Ω33	23 ³ 3	2 ⁵⁸ 58	8 ⁵⁹ 59
S 13	7 28 40	22 ⁴⁰ 49	20 ³⁶ 36	15 ³⁰ 15	8 ⁴⁵ 8	3 ³⁵ 3	2 ¹⁰ 2	22 ⁴¹ 11	11 ⁶ 6	15 ³⁴ 34	23 ⁵⁰ 21	21 ¹⁹ Ω30	23 ⁰ 3	3 ⁵ 5	9 ⁴ 4
M14	7 32 37	23 ⁴¹ 54	5 ¹³ 13	17 ⁷ 7	9 ³⁰ 9	3 ²⁸ 3	2 ²³ 2	22 ⁴⁸ 11	11 ⁹ 9	15 ³⁶ 36	23 ⁴⁹ 21	21 ¹⁹ Ω27	22 ⁵⁷ 3	3 ¹¹ 11	9 ⁸ 8
T 15	7 36 33	24 ⁴² 57	20 ³⁴ 34	18 ⁴⁴ 18	10 ¹⁷ 10	3 ²⁰ 3	2 ³⁷ 2	22 ⁵⁴ 11	11 ¹³ 13	15 ³⁹ 39	23 ⁴⁸ 21	21 ¹⁹ D27	22 ⁵³ 3	3 ¹⁸ 18	9 ¹³ 13
W16	7 40 30	25 ⁴⁴ 01	5 ¹¹ 11	20 ²¹ 20	11 ⁴ 11	3 ¹¹ 3	2 ⁵⁰ 2	23 ⁰ 11	11 ¹⁶ 11	15 ⁴¹ 41	23 ⁴⁷ 21	21 ¹⁹ Ω27	22 ⁵⁰ 3	3 ²⁵ 25	9 ¹⁸ 18
T 17	7 44 26	26 ⁴⁵ 04	19 ³ 3	21 ⁵⁹ 21	11 ⁵² 11	3 ¹ 3	3 ³ 3	23 ⁷ 11	11 ²⁰ 11	15 ⁴³ 43	23 ⁴⁶ 21	21 ¹⁹ Ω28	22 ⁴⁷ 3	3 ³¹ 31	9 ²² 22
F 18	7 48 23	27 ⁴⁶ 06	2 ³⁷ 37	23 ³⁸ 23	12 ⁴¹ 12	2 ⁵¹ 2	3 ¹⁶ 3	23 ¹³ 11	11 ²³ 11	15 ⁴⁵ 45	23 ⁴⁵ 21	21 ¹⁹ Ω30	22 ⁴⁴ 3	3 ³⁸ 38	9 ²⁷ 27
S 19	7 52 19	28 ⁴⁷ 08	15 ⁴⁴ 15	25 ¹⁷ 25	13 ³¹ 13	2 ³⁹ 2	3 ³⁰ 3	23 ¹⁹ 11	11 ²⁶ 11	15 ⁴⁸ 48	23 ⁴⁴ 21	21 ¹⁹ Ω31	22 ⁴¹ 3	3 ⁴⁵ 45	9 ³¹ 31
S 20	7 56 16	29 ⁴⁸ 09	28 ²⁸ 28	26 ⁵⁷ 26	14 ²² 14	2 ²⁷ 2	3 ⁴³ 3	23 ²⁵ 11	11 ³⁰ 11	15 ⁵⁰ 50	23 ⁴³ 21	21 ¹⁹ R32	22 ³⁷ 3	3 ⁵² 52	9 ³⁶ 36
M21	8 0 13	0 ⁴⁹ 10	10 ¹¹ 11	28 ³⁸ 28	15 ¹³ 15	2 ¹⁵ 2	3 ⁵⁶ 3	23 ³¹ 11	11 ³³ 11	15 ⁵² 52	23 ⁴² 21	21 ¹⁹ Ω32	22 ³⁴ 3	3 ⁵⁸ 58	9 ⁴¹ 41
T 22	8 4 9	1 ⁵⁰ 10	23 ² 2	0 ¹⁹ 19	16 ⁵ 16	2 ¹ 2	4 ⁹ 4	23 ³⁷ 11	11 ³⁷ 11	15 ⁵⁴ 54	23 ⁴² 21	21 ¹⁹ Ω30	22 ³¹ 3	4 ⁵ 5	9 ⁴⁵ 45
W23	8 8 6	2 ⁵¹ 10	5 ² 2	1 ¹⁶ 16	16 ⁵⁸ 16	1 ⁴⁷ 1	4 ²² 4	23 ⁴³ 11	11 ⁴⁰ 11	15 ⁵⁶ 56	23 ⁴¹ 21	21 ¹⁹ Ω28	22 ²⁸ 3	4 ¹² 12	9 ⁵⁰ 50
T 24	8 12 2	3 ⁵² 09	16 ⁵³ 16	3 ⁴³ 3	17 ⁵¹ 17	1 ³¹ 1	4 ³⁵ 4	23 ⁴⁹ 11	11 ⁴⁴ 11	15 ⁵⁹ 59	23 ⁴⁰ 21	21 ¹⁹ Ω25	22 ²⁵ 3	4 ¹⁸ 18	9 ⁵⁴ 54
F 25	8 15 59	4 ⁵³ 07	28 ⁴³ 28	5 ²⁷ 5	18 ⁴⁶ 18	1 ¹⁶ 1	4 ⁴⁸ 4	23 ⁵⁵ 11	11 ⁴⁷ 11	16 ¹ 1	23 ³⁹ 21	21 ¹⁹ Ω22	22 ²² 3	4 ²⁵ 25	9 ⁵⁹ 59
S 26	8 19 55	5 ⁵⁴ 05	10 ³² 10	7 ¹¹ 7	19 ⁴⁰ 19	0 ⁵⁹ 0	5 ¹ 1	24 ¹ 11	11 ⁵¹ 11	16 ³ 3	23 ³⁸ 21	21 ¹⁹ Ω20	22 ¹⁸ 3	4 ³² 32	10 ⁴ 4
S 27	8 23 52	6 ⁵⁵ 01	22 ²⁵ 22	8 ⁵⁵ 8	20 ³⁶ 20	0 ⁴² 0	5 ¹³ 5	24 ⁷ 11	11 ⁵⁴ 11	16 ⁵ 5	23 ³⁷ 21	21 ¹⁹ Ω18	22 ¹⁵ 3	4 ³⁸ 38	10 ⁸ 8
M28	8 27 48	7 ⁵⁵ 56	4 ²² 4	10 ⁴⁰ 10	21 ³² 21	0 ²⁴ 0	5 ²⁶ 5	24 ¹³ 11	11 ⁵⁸ 11	16 ⁷ 7	23 ³⁶ 21	21 ¹⁹ Ω16	22 ¹² 3	4 ⁴⁵ 45	10 ¹³ 13
T 29	8 31 45	8 ⁵⁶ 51	16 ²⁶ 16	12 ²⁶ 12	22 ²⁸ 22	0 ⁵ 0	5 ³⁹ 5	24 ¹⁸ 12	12 ¹ 1	16 ¹⁰ 10	23 ³⁶ 21	21 ¹⁹ D16	22 ⁹ 3	4 ⁵² 52	10 ¹⁸ 18
W30	8 35 42	9 ⁵⁷ 44	28 ³⁸ 28	14 ¹² 14	23 ²⁵ 23	29 ¹⁴ 29	5 ⁵¹ 5	24 ²⁴ 12	12 ⁴ 4	16 ¹² 12	23 ³⁵ 21	21 ¹⁹ Ω16	22 ⁶ 3	4 ⁵⁸ 58	10 ²² 22
T 31	8 39 38	10 ⁵⁸ 36	11 ¹¹ 11	15 ⁵⁹ 15	24 ²³ 24	29 ²⁶ 29	6 ³ 4	24 ³⁰ 12	12 ⁸ 8	16 ¹⁴ 14	23 ³⁴ 21	21 ¹⁹ Ω16	22 ³ 3	5 ³ 5	10 ²⁷ 27

Delta T = 31.46 sec.

Greg. Calendar

FEBRUARY 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	8 43 35	11 ⁵⁹ 26	23 ³⁴ 23	17 ⁴⁶ 17	25 ²¹ 25	29 ¹⁹ 29	6 ¹⁶ 6	24 ³⁵ 24	12 ¹¹ 12	16 ¹⁶ 16	23 ³³ 23	21 ¹⁹ Ω17	21 ¹⁹ Ω59	5 ¹² 5	10 ³² 10
S 2	8 47 31	13 ⁰ 15	6 ²¹ 6	19 ³⁴ 19	26 ¹⁹ 26	28 ¹⁴ 28	6 ²⁹ 6	24 ⁴¹ 24	12 ¹⁵ 12	16 ¹⁸ 16	23 ³³ 23	21 ¹⁹ Ω18	21 ¹⁹ Ω56	5 ¹⁸ 5	10 ³⁶ 10
S 3	8 51 28	14 ¹ 03	19 ²⁴ 19	21 ²² 21	27 ¹⁸ 27	28 ²⁴ 28	6 ⁴¹ 6	24 ⁴⁶ 24	12 ¹⁸ 12	16 ²⁰ 16	23 ³² 23	21 ¹⁹ Ω19	21 ¹⁹ Ω53	5 ²⁵ 5	10 ⁴¹ 10
M 4	8 55 24	15 ¹ 49	2 ⁴⁴ 2	23 ¹¹ 23	28 ¹⁷ 28	28 ² 28	6 ⁵⁴ 6	24 ⁵² 24	12 ²² 12	16 ²² 16	23 ³¹ 23	21 ¹⁹ Ω19	21 ¹⁹ Ω50	5 ³² 5	10 ⁴⁶ 10
T 5	8 59 21	16 ² 33	16 ²³ 16	24 ⁵⁹ 24	29 ¹⁷ 29	27 ⁴⁰ 27	7 ⁶ 7	24 ⁵⁷ 24	12 ²⁵ 12	16 ²⁴ 16	23 ³⁰ 23	21 ¹⁹ R19	21 ¹⁹ Ω47	5 ³⁹ 5	10 ⁵⁰ 10
W 6	9 3 17	17 ³ 16	0 ¹¹ 0	26 ⁴⁸ 26	0 ¹⁷ 0	27 ¹⁸ 27	7 ¹⁸ 7	25 ² 2	12 ²⁹ 12	16 ²⁶ 16	23 ³⁰ 23	21 ¹⁹ Ω19	21 ¹⁹ Ω43	5 ⁴⁵ 5	10 ⁵⁵ 10
T 7	9 7 14	18 ⁴ 57	14 ³⁸ 14	28 ³⁶ 28	1 ¹⁸ 1	26 ⁵⁵ 26	7 ³⁰ 7	25 ⁷ 25	12 ³² 12	16 ²⁸ 16	23 ²⁹ 23	21 ¹⁹ Ω19	21 ¹⁹ Ω40	5 ⁵² 5	11 ⁰ 0
F 8	9 11 11	19 ⁵ 37	29 ¹² 29	0 ²⁴ 0	2 ¹⁹ 2	26 ³² 26	7 ⁴² 7	25 ¹² 25	12 ³⁶ 12	16 ³⁰ 16	23 ²⁹ 23	21 ¹⁹ Ω19	21 ¹⁹ Ω37	5 ⁵⁹ 5	11 ⁴ 4
S 9	9 15 7	20 ⁵ 14	13 ⁵⁸ 13	2 ¹¹ 2	3 ²⁰ 3	26 ⁸ 26	7 ⁵⁴ 7	25 ¹⁷ 25	12 ³⁹ 12	16 ³² 16	23 ²⁸ 23	21 ¹⁹ Ω19	21 ¹⁹ Ω34	6 ⁵ 6	11 ⁹ 9
S 10	9 19 4	21 ⁵ 51	28 ⁵⁰ 28	3 ⁵⁸ 3	4 ²¹ 4	25 ⁴⁵ 25	8 ⁶ 8	25 ²² 25	12 ⁴³ 12	16 ³⁴ 16	23 ²⁷ 23	21 ¹⁹ D18	21 ¹⁹ Ω31	6 ¹² 6	11 ¹³ 11
M11	9 23 0	22 ⁶ 25	13 ¹¹ 13	5 ⁴³ 5	5 ²³ 5	25 ²¹ 25	8 ¹⁸ 8	25 ²⁷ 25	12 ⁴⁶ 12	16 ³⁶ 16	23 ²⁷ 23	21 ¹⁹ R18	21 ¹⁹ Ω28	6 ¹⁹ 6	11 ¹⁸ 11
T 12	9 26 57	23 ⁶ 58	28 ²² 28	7 ²⁶ 7	6 ²⁶ 6	24 ⁵⁷ 24	8 ³⁰ 8	25 ³² 25	12 ⁵⁰ 12	16 ³⁸ 16	23 ²⁶ 23	21 ¹⁹ Ω18	21 ¹⁹ Ω24	6 ²⁵ 6	11 ²³ 11
W13	9 30 53	24 ⁷ 29	12 ¹¹ 12	9 ⁷ 9	7 ²⁸ 7	24 ³³ 24	8 ⁴¹ 8	25 ³⁷ 25	12 ⁵³ 12	16 ⁴⁰ 16	23 ²⁶ 23	21 ¹⁹ Ω18	21 ¹⁹ Ω21	6 ³² 6	11 ²⁷ 11
T 14	9 34 50	25 ⁷ 59	26 ⁵² 26	10 ⁴⁶ 10	8 ³¹ 8	24 ¹⁰ 24	8 ⁵³ 8	25 ⁴² 25	12 ⁵⁷ 12	16 ⁴² 16	23 ²⁵ 23	21 ¹⁹ Ω18	21 ¹⁹ Ω18	6 ³⁹ 6	11 ³² 11
F 15	9 38 46	26 ⁸ 28	10 ³² 10	12 ²¹ 12	9 ³⁴ 9	23 ⁴⁶ 23	9 ⁴ 9	25 ⁴⁶ 25	13 ⁰ 13	16 ⁴⁴ 16	23 ²⁵ 23	21 ¹⁹ Ω17	21 ¹⁹ Ω15	6 ⁴⁵ 6	11 ³⁶ 11
S 16	9 42 43	27 ⁸ 55	23 ⁴⁷ 23	13 ⁵³ 13	10 ³⁸ 10										

SWISS EPHEMERIS for the year 1664

MARCH 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
S 1	10 37 55	11♋12'36	16♌19	23°R31	25♄53	18°R19	11♃46	26♁46	13♁50	17♄9	23°R20	21°R13	20♌27	8♄26	12♁42
S 2	10 41 51	12°12'38	29°41	23♋8	26°59	18♌1	11°56	26°49	13°53	17°11	23♌20	21♌10	20°24	8°32	12°46
M 3	10 45 48	13°12'39	13♌16	22°37	28°6	17°44	12°6	26°53	13°56	17°12	23°20	21°7	20°21	8°39	12°50
T 4	10 49 44	14°12'37	27°3	21°58	29°13	17°28	12°16	26°56	13°59	17°14	23°20	21°5	20°18	8°46	12°54
W 5	10 53 41	15°12'33	11♌0	21°14	0♁21	17°12	12°26	26°59	14°2	17°15	23°20	21°D5	20°14	8°52	12°59
T 6	10 57 38	16°12'27	25°7	20°24	1°28	16°57	12°35	27°2	14°6	17°16	23°20	21°5	20°11	8°59	13°3
F 7	11 1 34	17°12'18	9♌22	19°31	2°36	16°42	12°45	27°5	14°9	17°18	23°D20	21°6	20°8	9°6	13°7
S 8	11 5 31	18°12'07	23°43	18°34	3°43	16°29	12°54	27°8	14°12	17°19	23°20	21°7	20°5	9°12	13°11
S 9	11 9 27	19°11'54	8♌9	17°37	4°51	16°16	13°3	27°10	14°15	17°20	23°20	21°9	20°2	9°19	13°15
M10	11 13 24	20°11'39	22°30	16°39	5°59	16°4	13°12	27°13	14°18	17°22	23°20	21°R9	19°59	9°26	13°19
T 11	11 17 20	21°11'21	6♌47	15°43	7°7	15°52	13°21	27°16	14°21	17°23	23°20	21°8	19°55	9°32	13°23
W12	11 21 17	22°11'02	20°55	14°49	8°15	15°42	13°30	27°18	14°24	17°24	23°20	21°6	19°52	9°39	13°26
T 13	11 25 13	23°10'40	4♌47	13°58	9°24	15°32	13°39	27°20	14°26	17°25	23°20	21°2	19°49	9°46	13°30
F 14	11 29 10	24°10'16	18°21	13°12	10°32	15°23	13°47	27°23	14°29	17°27	23°20	20°57	19°46	9°52	13°34
S 15	11 33 6	25°9'51	1♌34	12°30	11°41	15°15	13°56	27°25	14°32	17°28	23°21	20°51	19°43	9°59	13°38
S 16	11 37 3	26°9'24	14°26	11°53	12°49	15°7	14°4	27°27	14°35	17°29	23°21	20°45	19°40	10°6	13°42
M17	11 41 0	27°8'54	26°59	11°22	13°58	15°1	14°12	27°29	14°38	17°30	23°21	20°41	19°36	10°12	13°45
T 18	11 44 56	28°8'23	9♌14	10°57	15°7	14°55	14°20	27°31	14°41	17°31	23°21	20°37	19°33	10°19	13°49
W19	11 48 53	29°7'51	21°17	10°38	16°16	14°50	14°28	27°33	14°43	17°32	23°22	20°35	19°30	10°26	13°52
T 20	11 52 49	0♌716	3♄10	10°25	17°25	14°45	14°36	27°34	14°46	17°33	23°22	20°D35	19°27	10°32	13°56
F 21	11 56 46	1°6'40	15°0	10°18	18°34	14°42	14°44	27°36	14°49	17°34	23°22	20°36	19°24	10°39	14°0
S 22	12 0 42	2°6'02	26°51	10°D17	19°44	14°39	14°51	27°37	14°51	17°35	23°22	20°37	19°20	10°46	14°3
S 23	12 4 39	3°5'22	8♁49	10°22	20°53	14°37	14°59	27°39	14°54	17°36	23°23	20°39	19°17	10°52	14°6
M24	12 8 35	4°4'40	20°57	10°32	22°3	14°36	15°6	27°40	14°57	17°37	23°23	20°R39	19°14	10°59	14°10
T 25	12 12 32	5°3'56	3♋20	10°47	23°12	14°D35	15°13	27°41	14°59	17°37	23°24	20°39	19°11	11°6	14°13
W26	12 16 29	6°3'11	16°1	11°7	24°22	14°35	15°20	27°42	15°2	17°38	23°24	20°36	19°8	11°13	14°16
T 27	12 20 25	7°2'23	29°0	11°32	25°32	14°36	15°27	27°43	15°4	17°39	23°24	20°31	19°5	11°19	14°20
F 28	12 24 22	8°1'33	12♌18	12°2	26°41	14°38	15°33	27°44	15°6	17°40	23°25	20°24	19°1	11°26	14°23
S 29	12 28 18	9°0'42	25°53	12°36	27°51	14°40	15°40	27°45	15°9	17°40	23°25	20°16	18°58	11°33	14°26
S 30	12 32 15	9°59'48	9♄42	13°14	29°1	14°43	15°46	27°46	15°11	17°41	23°26	20°7	18°55	11°39	14°29
M31	12 36 11	10♌58'52	23♄41	13♋55	0♋11	14♌47	15♄52	27♁46	15♁14	17♄42	23♌26	20♌0	18♌52	11♄46	14♁32

Delta T = 31.30 sec. Greg. Calendar

APRIL 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	12 40 8	11♌57'53	7♌48	14♋41	1♋21	14♌52	15♄58	27♁47	15♁16	17♄42	23♌27	19°R53	18♌49	11♄53	14♁35
W 2	12 44 4	12°56'53	21°57	15°29	2°31	14°57	16°4	27°47	15°18	17°43	23°28	19♌49	18°46	11°59	14°38
T 3	12 48 1	13°55'50	6♌7	16°22	3°42	15°3	16°10	27°48	15°20	17°43	23°28	19°47	18°42	12°6	14°41
F 4	12 51 58	14°54'45	20°16	17°17	4°52	15°9	16°15	27°48	15°22	17°44	23°29	19°D47	18°39	12°13	14°44
S 5	12 55 54	15°53'37	4♌22	18°15	6°2	15°16	16°21	27°48	15°25	17°44	23°29	19°48	18°36	12°19	14°47
S 6	12 59 51	16°52'28	18°23	19°16	7°13	15°24	16°26	27°R48	15°27	17°45	23°30	19°R49	18°33	12°26	14°49
M 7	13 3 47	17°51'15	2♌20	20°19	8°23	15°32	16°31	27°48	15°29	17°45	23°31	19°48	18°30	12°33	14°52
T 8	13 7 44	18°50'01	16°10	21°26	9°33	15°41	16°36	27°48	15°31	17°46	23°31	19°45	18°26	12°39	14°55
W 9	13 11 40	19°48'44	29°52	22°34	10°44	15°51	16°41	27°47	15°33	17°46	23°32	19°40	18°23	12°46	14°57
T 10	13 15 37	20°47'25	13♌22	23°45	11°55	16°1	16°45	27°47	15°35	17°46	23°33	19°32	18°20	12°53	15°0
F 11	13 19 33	21°46'05	26°39	24°58	13°5	16°11	16°50	27°47	15°36	17°47	23°34	19°22	18°17	12°59	15°2
S 12	13 23 30	22°44'42	9♌40	26°14	14°16	16°23	16°54	27°46	15°38	17°47	23°34	19°11	18°14	13°6	15°5
S 13	13 27 26	23°43'17	22°25	27°32	15°27	16°34	16°58	27°45	15°40	17°47	23°35	19°0	18°11	13°13	15°7
M14	13 31 23	24°41'51	4♌53	28°51	16°37	16°47	17°2	27°45	15°42	17°47	23°36	18°50	18°7	13°19	15°9
T 15	13 35 20	25°40'23	17°7	0♌13	17°48	16°59	17°6	27°44	15°44	17°47	23°37	18°42	18°4	13°26	15°12
W16	13 39 16	26°38'53	29°8	1°37	18°59	17°13	17°9	27°43	15°45	17°48	23°38	18°36	18°1	13°33	15°14
T 17	13 43 13	27°37'22	11♄1	3°2	20°10	17°27	17°12	27°42	15°47	17°48	23°39	18°32	17°58	13°39	15°16
F 18	13 47 9	28°35'49	22°50	4°30	21°21	17°41	17°16	27°41	15°48	17°48	23°39	18°31	17°55	13°46	15°18
S 19	13 51 6	29°34'14	4♁41	5°59	22°32	17°56	17°19	27°39	15°50	17°R48	23°40	18°D31	17°51	13°53	15°20
S 20	13 55 2	0♄32'38	16°39	7°31	23°43	18°11	17°21	27°38	15°51	17°48	23°41	18°R31	17°48	13°59	15°22
M21	13 58 59	1°31'00	28°49	9°4	24°54	18°27	17°24	27°37	15°53	17°48	23°42	18°30	17°45	14°6	15°24
T 22	14 2 55	2°29'20	11♋16	10°39	26°6	18°43	17°26	27°35	15°54	17°48	23°43	18°28	17°42	14°13	15°26
W23	14 6 52	3°27'39	24°4	12°16	27°17	18°59	17°29	27°34	15°56	17°47	23°44	18°24	17°39	14°19	15°27
T 24	14 10 49	4°25'56	7♌16	13°54	28°28	19°17	17°31	27°32	15°57	17°47	23°45	18°17	17°36	14°26	15°29
F 25	14 14 45	5°24'12	20°51	15°35	29°39	19°34	17°33	27°30	15°58	17°47	23°46	18°7	17°32	14°33	15°31
S 26	14 18 42	6°22'26	4♄48	17°17	0♌51	19°52	17°34	27°28	15°59	17°47	23°47	17°56	17°29	14°39	15°32
S 27	14 22 38	7°20'38	19°3	19°1	2°2	20°10	17°36	27°26	16°1	17°47	23°48	17°45	17°26	14°46	15°34
M28	14 26 35	8°18'48	3♌30	20°47	3°13	20°29	17°37	27°24	16°2	17°46	23°49	17°34	17°23	14°53	15°35
T 29	14 30 31	9°16'57	18°2	22°35	4°25	20°48	17°38	27°22	16°3	17°46	23°50	17°25	17°20	14°59	15°37
W30	14 34 28	10♌15'04	2♄33	24♌24	5♌36	21♌8	17♄39	27♁20	16♁4	17♄46	23♌51	17♌18	17♌17	15♄6	15♁38

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SWISS EPHEMERIS for the year 1664

MAY 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	14 38 24	11♁13'09	16♁57	26♁16	6♁48	21♁28	17♁40	27°R18	16♁ 5	17°R45	23♁52	17°R15	17♁13	15♁13	15♁39								
F 2	14 42 21	12°11'11	1♁12	28° 9	7°59	21°48	17°41	27♁15	16° 6	17♁45	23°54	17♁13	17°10	15°19	15°41								
S 3	14 46 18	13° 9'12	15°15	0♁ 4	9°11	22° 8	17°41	27°13	16° 7	17°44	23°55	17°13	17° 7	15°26	15°42								
S 4	14 50 14	14° 7'11	29° 7	2° 1	10°22	22°29	17°R41	27°10	16° 7	17°44	23°56	17°13	17° 4	15°33	15°43								
M 5	14 54 11	15° 5'08	12♁47	3°59	11°34	22°51	17°41	27° 7	16° 8	17°43	23°57	17°11	17° 1	15°39	15°44								
T 6	14 58 7	16° 3'03	26°16	6° 0	12°45	23°12	17°41	27° 5	16° 9	17°43	23°58	17° 7	16°57	15°46	15°45								
W 7	15 2 4	17° 0'56	9♁34	8° 2	13°57	23°34	17°41	27° 2	16°10	17°42	23°59	17° 1	16°54	15°53	15°46								
T 8	15 6 0	17°58'48	22°41	10° 6	15° 9	23°57	17°40	26°59	16°10	17°42	24° 0	16°51	16°51	15°59	15°46								
F 9	15 9 57	18°56'38	5♁37	12°11	16°20	24°19	17°39	26°56	16°11	17°41	24° 2	16°40	16°48	16° 6	15°47								
S 10	15 13 53	19°54'26	18°20	14°18	17°32	24°42	17°38	26°53	16°11	17°41	24° 3	16°27	16°45	16°13	15°48								
S 11	15 17 50	20°52'13	0♁51	16°26	18°44	25° 6	17°37	26°50	16°12	17°40	24° 4	16°14	16°42	16°19	15°48								
M12	15 21 47	21°49'59	13° 9	18°35	19°55	25°29	17°36	26°47	16°12	17°39	24° 5	16° 1	16°38	16°26	15°49								
T 13	15 25 43	22°47'44	25°16	20°45	21° 7	25°53	17°34	26°44	16°13	17°38	24° 7	15°51	16°35	16°33	15°49								
W14	15 29 40	23°45'27	7♁14	22°56	22°19	26°17	17°33	26°41	16°13	17°38	24° 8	15°43	16°32	16°39	15°50								
T 15	15 33 36	24°43'09	19° 5	25° 7	23°31	26°41	17°31	26°37	16°13	17°37	24° 9	15°39	16°29	16°46	15°50								
F 16	15 37 33	25°40'49	0♁53	27°18	24°43	27° 6	17°29	26°34	16°13	17°36	24°10	15°36	16°26	16°53	15°50								
S 17	15 41 29	26°38'29	12°43	29°30	25°55	27°31	17°26	26°30	16°14	17°35	24°12	15°D35	16°23	16°59	15°51								
S 18	15 45 26	27°36'08	24°40	1♁41	27° 6	27°56	17°24	26°27	16°14	17°34	24°13	15°R35	16°19	17° 6	15°51								
M19	15 49 22	28°33'46	6♁49	3°52	28°18	28°22	17°21	26°23	16°14	17°33	24°14	15°35	16°16	17°13	15°51								
T 20	15 53 19	29°31'22	19°16	6° 2	29°30	28°47	17°19	26°20	16°R14	17°33	24°16	15°34	16°13	17°19	15°R51								
W21	15 57 16	0♁58'58	2♁ 5	8°10	0♁42	29°13	17°16	26°16	16°14	17°32	24°17	15°30	16°10	17°26	15°51								
T 22	16 1 12	1°26'33	15°20	10°18	1°54	29°39	17°12	26°12	16°14	17°31	24°18	15°24	16° 7	17°33	15°51								
F 23	16 5 9	2°24'06	29° 3	12°23	3° 6	0♁ 6	17° 9	26° 8	16°14	17°30	24°20	15°16	16° 3	17°39	15°51								
S 24	16 9 5	3°21'39	13♁12	14°27	4°19	0°33	17° 6	26° 4	16°14	17°29	24°21	15° 6	16° 0	17°46	15°50								
S 25	16 13 2	4°19'11	27°44	16°29	5°31	0°59	17° 2	26° 1	16°13	17°28	24°22	14°55	15°57	17°53	15°50								
M26	16 16 58	5°16'42	12♁32	18°29	6°43	1°27	16°58	25°57	16°13	17°26	24°24	14°45	15°54	17°59	15°50								
T 27	16 20 55	6°14'12	27°27	20°27	7°55	1°54	16°54	25°53	16°13	17°25	24°25	14°37	15°51	18° 6	15°49								
W28	16 24 51	7°11'41	12♁20	22°22	9° 7	2°22	16°50	25°49	16°12	17°24	24°26	14°31	15°48	18°13	15°49								
T 29	16 28 48	8° 9'09	27° 5	24°15	10°19	2°49	16°46	25°45	16°12	17°23	24°28	14°28	15°44	18°19	15°48								
F 30	16 32 45	9° 6'35	11♁35	26° 5	11°31	3°18	16°41	25°40	16°12	17°22	24°29	14°D27	15°41	18°26	15°48								
S 31	16 36 41	10♁ 4'00	25♁47	27♁53	12♁44	3♁46	16♁36	25♁36	16♁11	17♁21	24♁31	14♁27	15♁38	18♁33	15♁47								

Delta T = 31.13 sec.

Greg. Calendar

JUNE 1664 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	16 40 38	11♁ 1'24	9♁40	29♁38	13♁56	4♁14	16°R32	25°R32	16°R11	17°R20	24♁32	14°R27	15♁35	18♁39	15°R46								
M 2	16 44 34	11°58'47	23°15	1♁21	15° 8	4°43	16♁27	25♁28	16♁10	17♁18	24°33	14♁27	15°32	18°46	15°45								
T 3	16 48 31	12°56'09	6♁33	3° 1	16°20	5°12	16°21	25°24	16° 9	17°17	24°35	14°25	15°28	18°53	15°45								
W 4	16 52 27	13°53'29	19°36	4°38	17°33	5°41	16°16	25°19	16° 9	17°16	24°36	14°20	15°25	18°59	15°44								
T 5	16 56 24	14°50'48	2♁25	6°13	18°45	6°10	16°11	25°15	16° 8	17°15	24°38	14°13	15°22	19° 6	15°43								
F 6	17 0 20	15°48'07	15° 2	7°44	19°57	6°40	16° 5	25°11	16° 7	17°13	24°39	14° 4	15°19	19°13	15°42								
S 7	17 4 17	16°45'25	27°28	9°13	21°10	7° 9	16° 0	25° 6	16° 6	17°12	24°41	13°54	15°16	19°19	15°40								
S 8	17 8 14	17°42'42	9♁44	10°40	22°22	7°39	15°54	25° 2	16° 6	17°11	24°42	13°43	15°13	19°26	15°39								
M 9	17 12 10	18°39'58	21°51	12° 3	23°34	8° 9	15°48	24°58	16° 5	17° 9	24°43	13°34	15° 9	19°33	15°38								
T 10	17 16 7	19°37'14	3♁50	13°24	24°47	8°39	15°42	24°53	16° 4	17° 8	24°45	13°26	15° 6	19°39	15°37								
W11	17 20 3	20°34'29	15°42	14°42	25°59	9° 9	15°36	24°49	16° 3	17° 6	24°46	13°20	15° 3	19°46	15°35								
T 12	17 24 0	21°31'44	27°31	15°56	27°12	9°40	15°29	24°45	16° 2	17° 5	24°48	13°17	15° 0	19°52	15°34								
F 13	17 27 56	22°28'58	9♁18	17° 8	28°24	10°10	15°23	24°40	16° 1	17° 4	24°49	13°D15	14°57	19°59	15°32								
S 14	17 31 53	23°26'12	21° 8	18°17	29°37	10°41	15°16	24°36	15°59	17° 2	24°51	13°15	14°54	20° 6	15°31								
S 15	17 35 49	24°23'26	3♁ 5	19°23	0♁49	11°12	15°10	24°31	15°58	17° 1	24°52	13°16	14°50	20°12	15°29								
M16	17 39 46	25°20'40	15°14	20°25	2° 2	11°43	15° 3	24°27	15°57	16°59	24°53	13°18	14°47	20°19	15°28								
T 17	17 43 43	26°17'53	27°40	21°25	3°14	12°15	14°56	24°23	15°56	16°58	24°55	13°R18	14°44	20°26	15°26								
W18	17 47 39	27°15'07	10♁27	22°21	4°27	12°46	14°49	24°18	15°55	16°56	24°56	13°17	14°41	20°32	15°24								
T 19	17 51 36	28°12'20	23°39	23°13	5°40	13°18	14°42	24°14	15°53	16°55	24°58	13°14	14°38	20°39	15°22								
F 20	17 55 32	29° 9'33	7♁20	24° 2	6°52	13°50	14°35	24° 9	15°52	16°53	24°59	13°10	14°34	20°46	15°20								
S 21	17 59 29	0♁ 6'46	21°29	24°47	8° 5	14°21	14°28	24° 5	15°50	16°52	25° 1	13° 4	14°31	20°52	15°19								
S 22	18 3 25	1° 4'00	6♁ 4	25°29	9°18	14°54	14°20	24° 1	15°49	16°50	25° 2	12°58	14°28	20°59	15°17								
M23	18 7 22	2° 1'13	21° 0	26° 7	10°30	15°26	14°13	23°56	15°48	16°49	25° 4	12°52	14°25	21° 6	15°15								
T 24	18 11 18	2°58'26	6♁ 7	26°40	11°43	15°58	14° 6	23°52	15°46	16°47	25° 5	12°47	14°22	21°12	15°13								
W25	18 15 15	3°55'39	21°16	27°10	12°56	16°31	13°58	23°48	15°44	16°46	25° 6	12°44	14°19	21°19	15°10								
T 26	18 19 12	4°52'52	6♁18	27°35	14° 9	17° 3	13°51	23°43	15°43	16°44	25° 8	12°D42	14°15	21°26	15° 8								
F 27	18 23 8	5°50'04	21° 5	27°56	15°22	17°36	13°43	23°39	15°41	16°42	25° 9	12°42	14°12	21°32	15° 6								
S 28	18 27 5	6°47'16	5♁32	28°12	16°34	18° 9	13°36	23°35	15°40	16°41	25°11	12°44	14° 9	21°39	15° 4								
S 29	18 31 1	7°44'28	19°35	28°24	17°47	18°42	13°28	23°31	15°38	16°39	25°12	12°45	14° 6	21°46	15° 1								
M30	18 34 58	8°41'39	3♁14	28♁32	19♁ 0	19♁15	13♁20	23♁26	15♁36	16♁38	25♁14	12°R46	14♁ 3	21♁52	14♁59								

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SWISS EPHEMERIS for the year 1664

JULY 1664 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	18 38 54	9 ^h 38'51	16 ^h 31	28 ^h R34	20 ^h II13	19 ^h III49	13 ^h R13	23 ^h R22	15 ^h R34	16 ^h R36	25 ^h II15	12 ^h R46	14 ^h Ω 0	21 ^h ♁59	14 ^h R57
W 2	18 42 51	10 ^h 36'02	29 ^h 28	28 ^h Ω32	21 ^h 26	20 ^h 22	13 ^h ♁ 5	23 ^h ♁18	15 ^h ♁33	16 ^h ♁34	25 ^h 16	12 ^h Ω44	13 ^h 56	22 ^h 6	14 ^h ♁54
T 3	18 46 48	11 ^h 33'13	12 ^h II 7	28 ^h 25	22 ^h 39	20 ^h 56	12 ^h 57	23 ^h 14	15 ^h 31	16 ^h 33	25 ^h 18	12 ^h 42	13 ^h 53	22 ^h 12	14 ^h 52
F 4	18 50 44	12 ^h 30'24	24 ^h 33	28 ^h 14	23 ^h 52	21 ^h 30	12 ^h 50	23 ^h 10	15 ^h 29	16 ^h 31	25 ^h 19	12 ^h 38	13 ^h 50	22 ^h 19	14 ^h 49
S 5	18 54 41	13 ^h 27'34	6 ^h ♁46	27 ^h 58	25 ^h 5	22 ^h 3	12 ^h 42	23 ^h 6	15 ^h 27	16 ^h 30	25 ^h 21	12 ^h 33	13 ^h 47	22 ^h 26	14 ^h 47
S 6	18 58 37	14 ^h 24'45	18 ^h 50	27 ^h 37	26 ^h 18	22 ^h 37	12 ^h 34	23 ^h 2	15 ^h 25	16 ^h 28	25 ^h 22	12 ^h 28	13 ^h 44	22 ^h 32	14 ^h 44
M 7	19 2 34	15 ^h 21'56	0 ^h ♁47	27 ^h 13	27 ^h 31	23 ^h 11	12 ^h 26	22 ^h 58	15 ^h 23	16 ^h 26	25 ^h 23	12 ^h 24	13 ^h 40	22 ^h 39	14 ^h 41
T 8	19 6 30	16 ^h 19'08	12 ^h 39	26 ^h 44	28 ^h 44	23 ^h 46	12 ^h 19	22 ^h 54	15 ^h 21	16 ^h 25	25 ^h 25	12 ^h 20	13 ^h 37	22 ^h 46	14 ^h 39
W 9	19 10 27	17 ^h 16'19	24 ^h 28	26 ^h 13	29 ^h 57	24 ^h 20	12 ^h 11	22 ^h 50	15 ^h 19	16 ^h 23	25 ^h 26	12 ^h 18	13 ^h 34	22 ^h 52	14 ^h 36
T 10	19 14 23	18 ^h 13'31	6 ^h ♁16	25 ^h 38	1 ^h Ω11	24 ^h 55	12 ^h 3	22 ^h 47	15 ^h 17	16 ^h 21	25 ^h 27	12 ^h 16	13 ^h 31	22 ^h 59	14 ^h 33
F 11	19 18 20	19 ^h 10'44	18 ^h 5	25 ^h 1	2 ^h 24	25 ^h 29	11 ^h 56	22 ^h 43	15 ^h 15	16 ^h 20	25 ^h 29	12 ^h D16	13 ^h 28	23 ^h 6	14 ^h 30
S 12	19 22 17	20 ^h 7'57	29 ^h 59	24 ^h 22	3 ^h 37	26 ^h 4	11 ^h 48	22 ^h 39	15 ^h 13	16 ^h 18	25 ^h 30	12 ^h 17	13 ^h 25	23 ^h 12	14 ^h 28
S 13	19 26 13	21 ^h 5'10	12 ^h ♁ 0	23 ^h 41	4 ^h 50	26 ^h 39	11 ^h 41	22 ^h 36	15 ^h 11	16 ^h 17	25 ^h 31	12 ^h 19	13 ^h 21	23 ^h 19	14 ^h 25
M14	19 30 10	22 ^h 2'24	24 ^h 13	23 ^h 0	6 ^h 3	27 ^h 14	11 ^h 33	22 ^h 32	15 ^h 9	16 ^h 15	25 ^h 33	12 ^h 20	13 ^h 18	23 ^h 26	14 ^h 22
T 15	19 34 6	22 ^h 59'39	6 ^h ♁40	22 ^h 19	7 ^h 17	27 ^h 49	11 ^h 26	22 ^h 29	15 ^h 7	16 ^h 13	25 ^h 34	12 ^h 22	13 ^h 15	23 ^h 32	14 ^h 19
W16	19 38 3	23 ^h 56'55	19 ^h 26	21 ^h 39	8 ^h 30	28 ^h 24	11 ^h 18	22 ^h 25	15 ^h 5	16 ^h 12	25 ^h 35	12 ^h R22	13 ^h 12	23 ^h 39	14 ^h 16
T 17	19 41 59	24 ^h 54'11	2 ^h ♁35	21 ^h 1	9 ^h 43	28 ^h 59	11 ^h 11	22 ^h 22	15 ^h 2	16 ^h 10	25 ^h 37	12 ^h 22	13 ^h 9	23 ^h 45	14 ^h 13
F 18	19 45 56	25 ^h 51'28	16 ^h 9	20 ^h 25	10 ^h 57	29 ^h 34	11 ^h 4	22 ^h 18	15 ^h 0	16 ^h 9	25 ^h 38	12 ^h 21	13 ^h 6	23 ^h 52	14 ^h 10
S 19	19 49 52	26 ^h 48'47	0 ^h II10	19 ^h 51	12 ^h 10	0 ^h Ω10	10 ^h 57	22 ^h 15	14 ^h 58	16 ^h 7	25 ^h 39	12 ^h 20	13 ^h 2	23 ^h 59	14 ^h 7
S 20	19 53 49	27 ^h 46'06	14 ^h 37	19 ^h 22	13 ^h 24	0 ^h 45	10 ^h 49	22 ^h 12	14 ^h 56	16 ^h 5	25 ^h 40	12 ^h 18	12 ^h 59	24 ^h 5	14 ^h 4
M21	19 57 46	28 ^h 43'26	29 ^h 25	18 ^h 56	14 ^h 37	1 ^h 21	10 ^h 42	22 ^h 9	14 ^h 53	16 ^h 4	25 ^h 42	12 ^h 16	12 ^h 56	24 ^h 12	14 ^h 1
T 22	20 1 42	29 ^h 40'48	14 ^h Ω29	18 ^h 35	15 ^h 51	1 ^h 57	10 ^h 35	22 ^h 6	14 ^h 51	16 ^h 2	25 ^h 43	12 ^h 15	12 ^h 53	24 ^h 19	13 ^h 58
W23	20 5 39	0 ^h Ω38'10	29 ^h 40	18 ^h 20	17 ^h 4	2 ^h 33	10 ^h 29	22 ^h 3	14 ^h 49	16 ^h 1	25 ^h 44	12 ^h 14	12 ^h 50	24 ^h 25	13 ^h 55
T 24	20 9 35	1 ^h 35'32	14 ^h Ω49	18 ^h 9	18 ^h 18	3 ^h 9	10 ^h 22	22 ^h 0	14 ^h 47	15 ^h 59	25 ^h 45	12 ^h D14	12 ^h 46	24 ^h 32	13 ^h 52
F 25	20 13 32	2 ^h 32'56	29 ^h 46	18 ^h D 5	19 ^h 31	3 ^h 45	10 ^h 15	21 ^h 57	14 ^h 44	15 ^h 58	25 ^h 46	12 ^h 14	12 ^h 43	24 ^h 39	13 ^h 49
S 26	20 17 28	3 ^h 30'20	14 ^h III24	18 ^h 7	20 ^h 45	4 ^h 21	10 ^h 9	21 ^h 54	14 ^h 42	15 ^h 56	25 ^h 48	12 ^h 15	12 ^h 40	24 ^h 45	13 ^h 46
S 27	20 21 25	4 ^h 27'45	28 ^h 39	18 ^h 14	21 ^h 59	4 ^h 58	10 ^h 2	21 ^h 52	14 ^h 40	15 ^h 55	25 ^h 49	12 ^h 16	12 ^h 37	24 ^h 52	13 ^h 42
M28	20 25 21	5 ^h 25'10	12 ^h ♁27	18 ^h 29	23 ^h 12	5 ^h 34	9 ^h 56	21 ^h 49	14 ^h 37	15 ^h 53	25 ^h 50	12 ^h 16	12 ^h 34	24 ^h 59	13 ^h 39
T 29	20 29 18	6 ^h 22'36	25 ^h 49	18 ^h 49	24 ^h 26	6 ^h 11	9 ^h 50	21 ^h 47	14 ^h 35	15 ^h 52	25 ^h 51	12 ^h 17	12 ^h 31	25 ^h 5	13 ^h 36
W30	20 33 15	7 ^h 20'02	8 ^h III48	19 ^h 16	25 ^h 40	6 ^h 48	9 ^h 44	21 ^h 44	14 ^h 33	15 ^h 50	25 ^h 52	12 ^h R17	12 ^h 27	25 ^h 12	13 ^h 33
T 31	20 37 11	8 ^h Ω17'30	21 ^h III25	19 ^h Ω50	26 ^h Ω53	7 ^h Ω24	9 ^h ♁38	21 ^h ♁42	14 ^h ♁30	15 ^h ♁49	25 ^h II53	12 ^h Ω17	12 ^h Ω24	25 ^h ♁19	13 ^h ♁30

Delta T = 30.97 sec.

Greg. Calendar

AUGUST 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	20 41 8	9 ^h Ω14'58	3 ^h ♁45	20 ^h Ω30	28 ^h Ω 7	8 ^h Ω 1	9 ^h R32	21 ^h R40	14 ^h R28	15 ^h R47	25 ^h II55	12 ^h R16	12 ^h Ω21	25 ^h ♁25	13 ^h R27
S 2	20 45 4	10 ^h 12'27	15 ^h 52	21 ^h 17	29 ^h 21	8 ^h 38	9 ^h ♁26	21 ^h ♁37	14 ^h ♁25	15 ^h ♁46	25 ^h 56	12 ^h Ω16	12 ^h 18	25 ^h ♁32	13 ^h ♁23
S 3	20 49 1	11 ^h 9'57	27 ^h 49	22 ^h 9	0 ^h Ω35	9 ^h 15	9 ^h 21	21 ^h 35	14 ^h 23	15 ^h 44	25 ^h 57	12 ^h 16	12 ^h 15	25 ^h 39	13 ^h 20
M 4	20 52 57	12 ^h 7'28	9 ^h ♁40	23 ^h 8	1 ^h 49	9 ^h 52	9 ^h 15	21 ^h 33	14 ^h 21	15 ^h 43	25 ^h 58	12 ^h D16	12 ^h 12	25 ^h 45	13 ^h 17
T 5	20 56 54	13 ^h 5'00	21 ^h 29	24 ^h 13	3 ^h 2	10 ^h 30	9 ^h 10	21 ^h 31	14 ^h 18	15 ^h 41	25 ^h 59	12 ^h 16	12 ^h 8	25 ^h 52	13 ^h 14
W 6	21 0 50	14 ^h 2'32	3 ^h ♁17	25 ^h 24	4 ^h 16	11 ^h 7	9 ^h 5	21 ^h 30	14 ^h 16	15 ^h 40	26 ^h 0	12 ^h 16	12 ^h 5	25 ^h 59	13 ^h 11
T 7	21 4 47	15 ^h 0'06	15 ^h 8	26 ^h 41	5 ^h 30	11 ^h 45	9 ^h 0	21 ^h 28	14 ^h 13	15 ^h 39	26 ^h 1	12 ^h R16	12 ^h 2	26 ^h 5	13 ^h 7
F 8	21 8 44	15 ^h 57'41	27 ^h 3	28 ^h 3	6 ^h 44	12 ^h 22	8 ^h 55	21 ^h 26	14 ^h 11	15 ^h 37	26 ^h 2	12 ^h 16	11 ^h 59	26 ^h 12	13 ^h 4
S 9	21 12 40	16 ^h 55'18	9 ^h ♁ 6	29 ^h 30	7 ^h 58	13 ^h 0	8 ^h 50	21 ^h 25	14 ^h 9	15 ^h 36	26 ^h 3	12 ^h 16	11 ^h 56	26 ^h 18	13 ^h 1
S 10	21 16 37	17 ^h 52'55	21 ^h 17	1 ^h Ω 2	9 ^h 12	13 ^h 37	8 ^h 46	21 ^h 23	14 ^h 6	15 ^h 35	26 ^h 4	12 ^h 15	11 ^h 52	26 ^h 25	12 ^h 58
M11	21 20 33	18 ^h 50'35	3 ^h ♁39	2 ^h 38	10 ^h 26	14 ^h 15	8 ^h 42	21 ^h 22	14 ^h 4	15 ^h 33	26 ^h 5	12 ^h 14	11 ^h 49	26 ^h 32	12 ^h 55
T 12	21 24 30	19 ^h 48'15	16 ^h 15	4 ^h 18	11 ^h 40	14 ^h 53	8 ^h 37	21 ^h 20	14 ^h 2	15 ^h 32	26 ^h 6	12 ^h 13	11 ^h 46	26 ^h 38	12 ^h 51
W13	21 28 26	20 ^h 45'57	29 ^h 6	6 ^h 2	12 ^h 54	15 ^h 31	8 ^h 33	21 ^h 19	13 ^h 59	15 ^h 31	26 ^h 7	12 ^h 13	11 ^h 43	26 ^h 45	12 ^h 48
T 14	21 32 23	21 ^h 43'41	12 ^h ♁16	7 ^h 50	14 ^h 8	16 ^h 9	8 ^h 30	21 ^h 18	13 ^h 57	15 ^h 30	26 ^h 8	12 ^h 12	11 ^h 40	26 ^h 52	12 ^h 45
F 15	21 36 19	22 ^h 41'27	25 ^h 46	9 ^h 40	15 ^h 22	16 ^h 48	8 ^h 26	21 ^h 17	13 ^h 54	15 ^h 28	26 ^h 8	12 ^h D12	11 ^h 37	26 ^h 58	12 ^h 42
S 16	21 40 16	23 ^h 39'14	9 ^h II37	11 ^h 33	16 ^h 37</										

SWISS EPHEMERIS for the year 1664

SEPTEMBER 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♀	♁
M 1	22 43 21	9 ^h 7'28"	18 ^h 15'	12 ^h 39'	6 ^h 26'	27 ^h 51'	7°R52	21 ^h 14'	13°R16	15°R11	26 ^h 21'	12° 6'	10° 43'	28 ^h 51'	11°R52
T 2	22 47 17	10° 5'42"	0 ^h 3'	14°30'	7°41'	28°31'	7 ^h 51'	21°15'	13 ^h 14'	15 ^h 11'	26°21'	12° 8'	10°39'	28°58'	11 ^h 49'
W 3	22 51 14	11° 3'57"	11°53'	16°20'	8°55'	29°11'	7°D51	21°16'	13°12'	15°10'	26°22'	12°R 8'	10°36'	29° 5'	11°46'
T 4	22 55 10	12° 2'14"	23°50'	18° 8'	10°10'	29°51'	7°51'	21°17'	13°10'	15° 9'	26°22'	12° 8'	10°33'	29°11'	11°44'
F 5	22 59 7	13° 0'32"	5 ^h 55'	19°56'	11°24'	0 ^h 31'	7°52'	21°18'	13° 8'	15° 8'	26°23'	12° 6'	10°30'	29°18'	11°41'
S 6	23 3 4	13°58'53"	18°10'	21°42'	12°39'	1°11'	7°52'	21°19'	13° 6'	15° 8'	26°23'	12° 2'	10°27'	29°25'	11°39'
S 7	23 7 0	14°57'15"	0 ^h 37'	23°28'	13°54'	1°51'	7°53'	21°20'	13° 4'	15° 7'	26°23'	11°57'	10°23'	29°31'	11°36'
M 8	23 10 57	15°55'39"	13°16'	25°12'	15° 8'	2°32'	7°53'	21°21'	13° 3'	15° 7'	26°24'	11°51'	10°20'	29°38'	11°34'
T 9	23 14 53	16°54'05"	26° 8'	26°55'	16°23'	3°12'	7°55'	21°23'	13° 1'	15° 6'	26°24'	11°46'	10°17'	29°45'	11°31'
W10	23 18 50	17°52'33"	9 ^h 14'	28°37'	17°38'	3°52'	7°56'	21°24'	12°59'	15° 5'	26°25'	11°40'	10°14'	29°51'	11°29'
T11	23 22 46	18°51'04"	22°33'	0 ^h 18'	18°52'	4°33'	7°57'	21°26'	12°57'	15° 5'	26°25'	11°36'	10°11'	29°58'	11°27'
F 12	23 26 43	19°49'36"	6 ^h 11'	1°58'	20° 7'	5°14'	7°59'	21°27'	12°55'	15° 4'	26°25'	11°34'	10° 8'	0 ^h 4'	11°24'
S 13	23 30 39	20°48'11"	19°53'	3°37'	21°22'	5°54'	8° 1'	21°29'	12°54'	15° 4'	26°26'	11°D33'	10° 4'	0 ^h 11'	11°22'
S 14	23 34 36	21°46'48"	3 ^h 54'	5°14'	22°36'	6°35'	8° 3'	21°31'	12°52'	15° 4'	26°26'	11°33'	10° 1'	0°18'	11°20'
M15	23 38 33	22°45'28"	18° 8'	6°51'	23°51'	7°16'	8° 5'	21°33'	12°50'	15° 3'	26°26'	11°35'	9°58'	0°24'	11°18'
T 16	23 42 29	23°44'09"	2 ^h 35'	8°27'	25° 6'	7°57'	8° 7'	21°35'	12°49'	15° 3'	26°26'	11°36'	9°55'	0°31'	11°16'
W17	23 46 26	24°42'53"	17°10'	10° 2'	26°21'	8°38'	8°10'	21°37'	12°47'	15° 3'	26°27'	11°R36'	9°52'	0°38'	11°14'
T18	23 50 22	25°41'39"	1 ^h 49'	11°36'	27°35'	9°19'	8°12'	21°39'	12°45'	15° 2'	26°27'	11°34'	9°49'	0°44'	11°12'
F 19	23 54 19	26°40'27"	16°26'	13° 9'	28°50'	10° 0'	8°15'	21°42'	12°44'	15° 2'	26°27'	11°31'	9°45'	0°51'	11°10'
S 20	23 58 15	27°39'17"	0 ^h 54'	14°41'	0 ^h 5'	10°42'	8°18'	21°44'	12°42'	15° 2'	26°27'	11°25'	9°42'	0°58'	11° 8'
S 21	0 2 12	28°38'09"	15° 7'	16°12'	1°20'	11°23'	8°22'	21°47'	12°41'	15° 2'	26°27'	11°17'	9°39'	1° 4'	11° 6'
M22	0 6 8	29°37'03"	29° 0'	17°42'	2°35'	12° 4'	8°25'	21°49'	12°40'	15° 1'	26°27'	11° 9'	9°36'	1°11'	11° 4'
T23	0 10 5	0 ^h 35'59"	12 ^h 29'	19°11'	3°50'	12°46'	8°29'	21°52'	12°38'	15° 1'	26°27'	11° 2'	9°33'	1°18'	11° 3'
W24	0 14 1	1°34'57"	25°34'	20°40'	5° 4'	13°28'	8°33'	21°55'	12°37'	15° 1'	26°27'	10°55'	9°29'	1°24'	11° 1'
T25	0 17 58	2°33'57"	8 ^h 15'	22° 7'	6°19'	14° 9'	8°37'	21°58'	12°36'	15° 1'	26°27'	10°50'	9°26'	1°31'	11° 0'
F 26	0 21 55	3°32'58"	20°36'	23°33'	7°34'	14°51'	8°41'	22° 1'	12°34'	15°D 1'	26°R27'	10°47'	9°23'	1°38'	10°58'
S 27	0 25 51	4°32'02"	2 ^h 42'	24°59'	8°49'	15°33'	8°45'	22° 4'	12°33'	15° 1'	26°27'	10°D46'	9°20'	1°44'	10°57'
S 28	0 29 48	5°31'07"	14°36'	26°23'	10° 4'	16°15'	8°50'	22° 7'	12°32'	15° 1'	26°27'	10°46'	9°17'	1°51'	10°55'
M29	0 33 44	6°30'14"	26°25'	27°46'	11°19'	16°57'	8°54'	22°10'	12°31'	15° 1'	26°27'	10°47'	9°14'	1°57'	10°54'
T 30	0 37 41	7 ^h 29'22"	8 ^h 13'	29 ^h 9'	12 ^h 34'	17 ^h 39'	8 ^h 59'	22 ^h 13'	12 ^h 30'	15 ^h 1'	26 ^h 27'	10°R48'	9° 10'	2 ^h 4'	10 ^h 53'

Delta T = 30.80 sec.

Greg. Calendar

OCTOBER 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♀	♁
W 1	0 41 37	8 ^h 28'33"	20 ^h 6'	0 ^h 30'	13 ^h 49'	18 ^h 21'	9 ^h 3'	22 ^h 17'	12°R29'	15 ^h 2'	26°R27'	10°R47'	9° 7'	2 ^h 11'	10°R51'
T 2	0 45 34	9°27'45"	2 ^h 8'	1°50'	15° 4'	19° 3'	9°10'	22°20'	12 ^h 28'	15° 2'	26 ^h 27'	10° 45'	9° 4'	2°17'	10 ^h 50'
F 3	0 49 30	10°26'59"	14°22'	3° 9'	16°18'	19°46'	9°15'	22°24'	12°27'	15° 2'	26°27'	10°40'	9° 1'	2°24'	10°49'
S 4	0 53 27	11°26'15"	26°51'	4°26'	17°33'	20°28'	9°21'	22°27'	12°26'	15° 2'	26°27'	10°33'	8°58'	2°31'	10°48'
S 5	0 57 24	12°25'33"	9 ^h 36'	5°42'	18°48'	21°10'	9°26'	22°31'	12°25'	15° 3'	26°26'	10°24'	8°54'	2°37'	10°47'
M 6	1 1 20	13°24'53"	22°37'	6°57'	20° 3'	21°53'	9°32'	22°35'	12°24'	15° 3'	26°26'	10°13'	8°51'	2°44'	10°46'
T 7	1 5 17	14°24'16"	5 ^h 52'	8°11'	21°18'	22°36'	9°38'	22°39'	12°24'	15° 3'	26°26'	10° 1'	8°48'	2°51'	10°45'
W 8	1 9 13	15°23'40"	19°20'	9°22'	22°33'	23°18'	9°44'	22°43'	12°23'	15° 4'	26°26'	9°51'	8°45'	2°57'	10°44'
T 9	1 13 10	16°23'07"	2 ^h 59'	10°32'	23°48'	24° 1'	9°51'	22°47'	12°22'	15° 4'	26°25'	9°43'	8°42'	3° 4'	10°44'
F 10	1 17 6	17°22'36"	16°47'	11°40'	25° 3'	24°44'	9°57'	22°51'	12°22'	15° 4'	26°25'	9°36'	8°39'	3°11'	10°43'
S 11	1 21 3	18°22'07"	0 ^h 41'	12°46'	26°18'	25°27'	10° 4'	22°55'	12°21'	15° 5'	26°25'	9°33'	8°35'	3°17'	10°42'
S 12	1 24 59	19°21'41"	14°41'	13°50'	27°33'	26°10'	10°11'	22°59'	12°21'	15° 5'	26°24'	9°D32'	8°32'	3°24'	10°42'
M13	1 28 56	20°21'17"	28°46'	14°51'	28°48'	26°53'	10°18'	23° 4'	12°20'	15° 6'	26°24'	9°32'	8°29'	3°30'	10°41'
T 14	1 32 53	21°20'55"	12 ^h 55'	15°50'	0 ^h 3'	27°36'	10°25'	23° 8'	12°20'	15° 7'	26°24'	9°R32'	8°26'	3°37'	10°41'
W15	1 36 49	22°20'36"	27° 8'	16°45'	1°18'	28°19'	10°32'	23°13'	12°20'	15° 7'	26°23'	9°31'	8°23'	3°44'	10°41'
T 16	1 40 46	23°20'19"	11 ^h 21'	17°38'	2°33'	29° 2'	10°40'	23°17'	12°19'	15° 8'	26°23'	9°27'	8°20'	3°50'	10°40'
F 17	1 44 42	24°20'04"	25°32'	18°26'	3°48'	29°45'	10°47'	23°22'	12°19'	15° 8'	26°22'	9°21'	8°16'	3°57'	10°40'
S 18	1 48 39	25°19'51"	9 ^h 37'	19°11'	5° 3'	0 ^h 29'	10°55'	23°27'	12°19'	15° 9'	26°22'	9°12'	8°13'	4° 4'	10°40'
S 19	1 52 35	26°19'40"	23°31'	19°51'	6°18'	1°12'	11° 3'	23°31'	12°19'	15°10'	26°21'	9° 1'	8°10'	4°10'	10°D40'
M20	1 56 32	27°19'32"	7 ^h 10'	20°27'	7°33'	1°56'	11°11'	23°36'	12°18'	15°11'	26°21'	8°48'	8° 7'	4°17'	10°40'
T 21	2 0 28	28°19'25"	20°29'	20°56'	8°48'	2°39'	11°19'	23°41'	12°18'	15°12'	26°20'	8°36'	8° 4'	4°24'	10°40'
W22	2 4 25	29°19'20"	3 ^h 29'	21°20'	10° 3'	3°23'	11°27'	23°46'	12°D18'	15°12'	26°20'	8°24'	8° 0'	4°30'	10°40'
T 23	2 8 22	0 ^h 19'17"	16° 8'	21°37'	11°18'	4° 7'	11°36'	23°51'	12°18'	15°13'	26°19'	8°15'	7°57'	4°37'	10°40'
F 24	2 12 18	1°19'16"	28°28'	21°47'	12°33'	4°51'	11°44'	23°56'	12°19'	15°14'	26°19'	8° 9'	7°54'	4°44'	10°41'
S 25	2 16 15	2°19'16"	10 ^h 33'	21°R50'	13°48'	5°35'	11°53'	24° 1'	12°19'	15°15'	26°18'	8° 5'	7°51'	4°50'	10°41'
S 26	2 20 11	3°19'18"	22°27'	21°43'	15° 3'	6°19'	12° 2'	24° 7'	12°19'	15°16'	26°17'	8° 3'	7°48'	4°57'	10°42'
M27	2 24 8	4°19'22"	4 ^h 16'	21°28'	16°18'	7° 3'	12°11'	24°12'	12°19'	15°17'	26°17'	8° 3'	7°45'	5° 4'	10°42'
T 28	2 28 4	5°19'27"	16° 4'	21° 4'	17°33'	7°47'	12°20'	24°17'	12°19'	15°18'	26°16'	8° 3'	7°41'	5°10'	10°43'
W29	2 32 1	6°19'34"	27°58'	20°29'	18°48'	8°31'	12°29'	24°23'	12°20'	15°19'	26°15'	8° 2'	7°38'	5°17'	10°43'
T 30	2 35 57	7°19'43"	10 ^h 2'	19°46'	20° 3'	9°15'	12°38'	24°28'	12°20'	15°20'	26°15'	7°59'	7°35'	5°23'	10°44'
F 31	2 39 54	8 ^h 19'53"	22 ^h 22'	18 ^h 53'	21 ^h 18'	9 ^h 59'	12 ^h 38'	24 ^h 34'	12 ^h 21'	15 ^h 21'	26 ^h 14'	7 ^h 53'	7 ^h 32'	5 ^h 30'	10 ^h 45'

Delta T = 30.72 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1664

NOVEMBER 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	2 43 51	9♍20°04	5♈ 0	17°R51	22♌33	10♌44	12♌57	24♌39	12♌21	15♌23	26°R13	7°R45	7♌29	5♌37	10♌45
S 2	2 47 47	10°20'17	17°59	16♌42	23°48	11°28	13° 7	24°45	12°22	15°24	26♌12	7♌34	7°26	5°43	10°46
M 3	2 51 44	11°20'32	1♉19	15°27	25° 3	12°12	13°17	24°51	12°22	15°25	26°12	7°22	7°22	5°50	10°47
T 4	2 55 40	12°20'49	14°58	14° 8	26°18	12°57	13°27	24°56	12°23	15°26	26°11	7° 9	7°19	5°57	10°48
W 5	2 59 37	13°21'08	28°52	12°49	27°33	13°41	13°37	25° 2	12°24	15°27	26°10	6°57	7°16	6° 3	10°49
T 6	3 3 33	14°21'28	12♌58	11°30	28°48	14°26	13°47	25° 8	12°25	15°29	26° 9	6°46	7°13	6°10	10°50
F 7	3 7 30	15°21'50	27°10	10°15	0♌ 3	15°11	13°57	25°14	12°25	15°30	26° 8	6°39	7°10	6°17	10°52
S 8	3 11 26	16°22'14	11♌24	9° 6	1°18	15°56	14° 8	25°20	12°26	15°31	26° 7	6°34	7° 6	6°23	10°53
S 9	3 15 23	17°22'40	25°37	8° 6	2°33	16°40	14°18	25°26	12°27	15°33	26° 6	6°33	7° 3	6°30	10°54
M10	3 19 20	18°23'08	9♌46	7°15	3°48	17°25	14°29	25°32	12°28	15°34	26° 6	6°D32	7° 0	6°37	10°56
T 11	3 23 16	19°23'38	23°50	6°36	5° 3	18°10	14°39	25°38	12°29	15°36	26° 5	6°R32	6°57	6°43	10°57
W12	3 27 13	20°24'09	7♎49	6° 8	6°18	18°55	14°50	25°44	12°30	15°37	26° 4	6°31	6°54	6°50	10°59
T 13	3 31 9	21°24'43	21°42	5°52	7°33	19°40	15° 1	25°51	12°31	15°39	26° 3	6°28	6°51	6°56	11° 0
F 14	3 35 6	22°25'18	5♌29	5°D47	8°48	20°25	15°12	25°57	12°32	15°40	26° 2	6°22	6°47	7° 3	11° 2
S 15	3 39 2	23°25'55	19° 7	5°53	10° 3	21°11	15°23	26° 3	12°34	15°42	26° 1	6°13	6°44	7°10	11° 3
S 16	3 42 59	24°26'34	2♌35	6°10	11°18	21°56	15°34	26° 9	12°35	15°43	26° 0	6° 2	6°41	7°16	11° 5
M17	3 46 55	25°27'14	15°51	6°36	12°33	22°41	15°46	26°16	12°36	15°45	25°59	5°50	6°38	7°23	11° 7
T 18	3 50 52	26°27'56	28°53	7°10	13°48	23°26	15°57	26°22	12°38	15°46	25°58	5°37	6°35	7°30	11° 9
W19	3 54 48	27°28'39	11♌38	7°52	15° 3	24°12	16° 9	26°29	12°39	15°48	25°57	5°26	6°32	7°36	11°11
T 20	3 58 45	28°29'23	24° 8	8°41	16°18	24°57	16°20	26°35	12°40	15°50	25°56	5°16	6°28	7°43	11°13
F 21	4 2 42	29°30'09	6♌23	9°36	17°33	25°43	16°32	26°42	12°42	15°51	25°55	5°10	6°25	7°50	11°15
S 22	4 6 38	0♌30'56	18°25	10°36	18°48	26°28	16°44	26°48	12°44	15°53	25°54	5° 6	6°22	7°56	11°17
S 23	4 10 35	1°31'44	0♌18	11°41	20° 3	27°14	16°55	26°55	12°45	15°55	25°53	5°D 4	6°19	8° 3	11°19
M24	4 14 31	2°32'33	12° 5	12°50	21°18	28° 0	17° 7	27° 1	12°47	15°57	25°52	5° 4	6°16	8°10	11°22
T 25	4 18 28	3°33'23	23°52	14° 2	22°33	28°45	17°19	27° 8	12°48	15°58	25°50	5° 5	6°12	8°16	11°24
W26	4 22 24	4°34'14	5♌45	15°17	23°48	29°31	17°31	27°15	12°50	16° 0	25°49	5°R 5	6° 9	8°23	11°26
T 27	4 26 21	5°35'06	17°48	16°34	25° 3	0♌17	17°44	27°22	12°52	16° 2	25°48	5° 5	6° 6	8°29	11°29
F 28	4 30 18	6°35'58	0♌ 7	17°54	26°18	1° 3	17°56	27°28	12°54	16° 4	25°47	5° 2	6° 3	8°36	11°31
S 29	4 34 14	7°36'51	12°47	19°15	27°33	1°49	18° 8	27°35	12°56	16° 6	25°46	4°56	6° 0	8°43	11°34
S 30	4 38 11	8♌37'46	25°51	20♌38	28♌48	2♌35	18♌20	27♌42	12°58	16♌ 8	25°45	4♌49	5♌57	8♌49	11♌36

Delta T = 30.63 sec. Greg. Calendar

DECEMBER 1664 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	4 42 7	9♌38'41	9♌20	22♌ 2	0♌ 3	3♌21	18♌33	27♌49	13♌ 0	16♌10	25°R44	4°R40	5♌53	8♌56	11♌39
T 2	4 46 4	10°39'37	23°13	23°28	1°18	4° 7	18°45	27°55	13° 2	16°11	25°R43	4♌31	5°50	9° 3	11°42
W 3	4 50 0	11°40'34	7♌28	24°54	2°33	4°53	18°58	28° 2	13° 4	16°13	25°41	4°22	5°47	9° 9	11°44
T 4	4 53 57	12°41'31	21°59	26°22	3°47	5°39	19°11	28° 9	13° 6	16°15	25°40	4°14	5°44	9°16	11°47
F 5	4 57 53	13°42'30	6♌38	27°50	5° 2	6°25	19°23	28°16	13° 8	16°17	25°39	4° 9	5°41	9°23	11°50
S 6	5 1 50	14°43'30	21°19	29°18	6°17	7°11	19°36	28°23	13°10	16°19	25°38	4° 6	5°37	9°29	11°53
S 7	5 5 47	15°44'31	5♌56	0♌47	7°32	7°58	19°49	28°30	13°12	16°21	25°37	4°D 5	5°34	9°36	11°56
M 8	5 9 43	16°45'33	20°23	2°17	8°47	8°44	20° 2	28°37	13°14	16°23	25°36	4° 6	5°31	9°43	11°59
T 9	5 13 40	17°46'36	4♎37	3°47	10° 2	9°30	20°15	28°44	13°17	16°25	25°34	4° 7	5°28	9°49	12° 2
W10	5 17 36	18°47'39	18°37	5°18	11°17	10°17	20°28	28°51	13°19	16°27	25°33	4°R 8	5°25	9°56	12° 5
T 11	5 21 33	19°48'44	2♌23	6°48	12°31	11° 3	20°41	28°58	13°21	16°30	25°32	4° 7	5°22	10° 3	12° 8
F 12	5 25 29	20°49'50	15°54	8°19	13°46	11°50	20°54	29° 5	13°24	16°32	25°31	4° 4	5°18	10° 9	12°11
S 13	5 29 26	21°50'57	29°13	9°51	15° 1	12°36	21° 7	29°12	13°26	16°34	25°30	4° 0	5°15	10°16	12°15
S 14	5 33 22	22°52'04	12♌18	11°22	16°16	13°23	21°21	29°19	13°29	16°36	25°28	3°53	5°12	10°22	12°18
M15	5 37 19	23°53'12	25°10	12°54	17°31	14° 9	21°34	29°26	13°31	16°38	25°27	3°46	5° 9	10°29	12°21
T 16	5 41 16	24°54'21	7♌57	14°26	18°46	14°56	21°47	29°33	13°34	16°40	25°26	3°38	5° 6	10°36	12°25
W17	5 45 12	25°55'31	20°17	15°59	20° 0	15°43	22° 1	29°40	13°36	16°42	25°25	3°32	5° 3	10°42	12°28
T 18	5 49 9	26°56'41	2♌33	17°31	21°15	16°29	22°14	29°47	13°39	16°44	25°24	3°26	4°59	10°49	12°32
F 19	5 53 5	27°57'51	14°39	19° 4	22°30	17°16	22°28	29°54	13°42	16°47	25°22	3°22	4°56	10°56	12°35
S 20	5 57 2	28°59'02	26°35	20°37	23°45	18° 3	22°41	0♌ 1	13°44	16°49	25°21	3°21	4°53	11° 2	12°39
S 21	6 0 58	0♌ 0'12	8♌25	22°10	24°59	18°50	22°55	0° 8	13°47	16°51	25°20	3°D20	4°50	11° 9	12°42
M22	6 4 55	1° 1'23	20°12	23°44	26°14	19°37	23° 8	0°15	13°50	16°53	25°19	3°22	4°47	11°16	12°46
T 23	6 8 51	2° 2'34	1♌59	25°17	27°29	20°24	23°22	0°22	13°53	16°55	25°18	3°23	4°43	11°22	12°50
W24	6 12 48	3° 3'45	13°50	26°51	28°43	21°11	23°36	0°29	13°55	16°58	25°16	3°25	4°40	11°29	12°53
T 25	6 16 45	4° 4'56	25°51	28°26	29°58	21°57	23°50	0°37	13°58	17° 0	25°15	3°27	4°37	11°36	12°57
F 26	6 20 41	5° 6'06	8♌ 7	0♌ 0	1♌13	22°44	24° 3	0°44	14° 1	17° 2	25°14	3°R27	4°34	11°42	13° 1
S 27	6 24 38	6° 7'16	20°43	1°35	2°27	23°31	24°17	0°51	14° 4	17° 4	25°13	3°26	4°31	11°49	13° 5
S 28	6 28 34	7° 8'26	3♌42	3°10	3°42	24°18	24°31	0°58	14° 7	17° 7	25°12	3°24	4°28	11°56	13° 8
M29	6 32 31	8° 9'36	17° 8	4°46	4°56	25° 5	24°45	1° 5	14°10	17° 9	25°11	3°21	4°24	12° 2	13°12
T 30	6 36 27	9°10'46	1♌ 1	6°22	6°11	25°53	24°59	1°12	14°13	17°11	25° 9	3°17	4°21	12° 9	13°16
W31	6 40 24	10♌11'55	15°21	7♌58	7♌25	26♌40	25♌13	1♌19	14°16	17♌13	25° 8	3♌13	4♌18	12°15	13°20

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