



Astrodienst Ephemeris Tables for the year 1722

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPH

ASTRODIENST EPHEMERIS for the year 1722
geocentric

JANUARY 1722

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 41 10	10 ³² 07	22 ¹¹ 57	17 ³⁴ 34	16 ³⁴ 17	9 ⁸ 5	27 ¹¹ 21	12 ³⁴ 45	24 ¹¹ 13	22 ²⁸ 28	23 ³⁸ 38	11 ⁴⁹ 49	11 ⁵¹ 51	21 ³⁶ 36	20 ³⁵ 35	T 1
F 2	6 45 6	11 ²³ 16	4 ⁵⁰ 50	18 ³⁸ 38	17 ³² 32	9 ²¹ 21	27 ³³ 33	12 ⁵² 52	24 ¹⁵ 15	22 ²⁸ 27	23 ³⁸ 38	11 ⁴⁹ 49	11 ⁴⁸ 48	21 ⁴² 42	20 ³⁷ 37	F 2
S 3	6 49 3	12 ²⁴ 25	16 ³⁹ 39	19 ⁴⁵ 45	18 ⁴⁷ 47	9 ³⁷ 37	27 ⁴⁴ 44	12 ⁵⁸ 58	24 ¹⁶ 16	22 ²⁶ 26	23 ³⁸ 38	11 ⁴⁹ 49	11 ⁴⁵ 45	21 ⁴⁹ 49	20 ³⁹ 39	S 3
S 4	6 52 59	13 ²⁵ 33	28 ²⁷ 27	20 ⁵⁵ 55	20 ² 2	9 ⁵⁴ 54	27 ⁵⁵ 55	13 ⁵ 5	24 ¹⁷ 17	22 ²⁵ 25	23 ³⁷ 37	11 ⁴⁹ 49	11 ⁴¹ 41	21 ⁵⁶ 56	20 ⁴¹ 41	S 4
M 5	6 56 56	14 ²⁶ 42	10 ¹⁶ 16	22 ⁷ 7	21 ¹⁷ 17	10 ¹¹ 11	28 ⁶ 6	13 ¹¹ 11	24 ¹⁹ 19	22 ²⁴ 24	23 ³⁷ 37	11 ⁴⁹ 49	11 ³⁸ 38	22 ² 2	20 ⁴³ 43	M 5
T 6	7 0 52	15 ²⁷ 50	22 ⁷ 7	23 ²⁰ 20	22 ³¹ 31	10 ²⁹ 29	28 ¹⁷ 17	13 ¹⁸ 18	24 ²⁰ 20	22 ²³ 23	23 ³⁷ 37	11 ⁴⁹ 49	11 ³⁵ 35	22 ⁹ 9	20 ⁴⁵ 45	T 6
W 7	7 4 49	16 ²⁸ 59	4 ¹¹ 5	24 ³⁶ 36	23 ⁴⁶ 46	10 ⁴⁷ 47	28 ²⁸ 28	13 ²⁴ 24	24 ²¹ 21	22 ²² 22	23 ³⁶ 36	11 ⁴⁸ 48	11 ³² 32	22 ¹⁶ 16	20 ⁴⁷ 47	W 7
T 8	7 8 46	17 ³⁰ 07	16 ¹¹ 11	25 ⁵³ 53	25 ¹ 1	11 ⁶ 6	28 ³⁹ 39	13 ³⁰ 30	24 ²³ 23	22 ²¹ 21	23 ³⁶ 36	11 ⁴⁷ 47	11 ²⁹ 29	22 ²² 22	20 ⁴⁹ 49	T 8
F 9	7 12 42	18 ³¹ 15	28 ³⁰ 30	27 ¹¹ 11	26 ¹⁶ 16	11 ²⁵ 25	28 ⁵⁰ 50	13 ³⁶ 36	24 ²⁴ 24	22 ²⁰ 20	23 ³⁵ 35	11 ⁴⁷ 47	11 ²⁶ 26	22 ²⁹ 29	20 ⁵¹ 51	F 9
S 10	7 16 39	19 ³² 23	11 ¹¹ 5	28 ³⁰ 30	27 ³¹ 31	11 ⁴⁵ 45	29 ¹ 1	13 ⁴³ 43	24 ²⁵ 25	22 ²⁰ 20	23 ³⁵ 35	11 ⁴⁶ 46	11 ²² 22	22 ³⁶ 36	20 ⁵³ 53	S 10
S 11	7 20 35	20 ³³ 30	24 ¹ 1	29 ⁵¹ 51	28 ⁴⁶ 46	12 ⁵ 5	29 ¹¹ 11	13 ⁴⁹ 49	24 ²⁶ 26	22 ¹⁹ 19	23 ³⁴ 34	11 ⁴⁶ 46	11 ¹⁹ 19	22 ⁴² 42	20 ⁵⁵ 55	S 11
M 12	7 24 32	21 ³⁴ 38	7 ¹¹ 19	1 ¹³ 13	0 ³ 1	12 ²⁵ 25	29 ²² 22	13 ⁵⁵ 55	24 ²⁷ 27	22 ¹⁸ 18	23 ³⁴ 34	11 ⁴⁷ 47	11 ¹⁶ 16	22 ⁴⁹ 49	20 ⁵⁷ 57	M 12
T 13	7 28 28	22 ³⁵ 45	21 ³ 3	2 ³⁶ 36	1 ¹⁶ 16	12 ⁴⁶ 46	29 ³² 32	14 ¹ 1	24 ²⁸ 28	22 ¹⁸ 18	23 ³³ 33	11 ⁴⁷ 47	11 ¹³ 13	22 ⁵⁶ 56	21 ⁰ 0	T 13
W 14	7 32 25	23 ³⁶ 52	5 ¹⁴ 14	4 ⁰ 0	2 ³¹ 31	13 ⁷ 7	29 ⁴² 42	14 ⁷ 7	24 ²⁹ 29	22 ¹⁷ 17	23 ³³ 33	11 ⁴⁸ 48	11 ¹⁰ 10	23 ² 2	21 ² 2	W 14
T 15	7 36 21	24 ³⁷ 59	19 ⁵⁰ 50	5 ²⁵ 25	3 ⁴⁷ 47	13 ²⁹ 29	29 ⁵³ 53	14 ¹³ 13	24 ²⁹ 29	22 ¹⁶ 16	23 ³² 32	11 ⁴⁹ 49	11 ⁶ 6	23 ⁹ 9	21 ⁴ 4	T 15
F 16	7 40 18	25 ³⁹ 06	4 ³⁴ 34	6 ⁵⁰ 50	5 ² 2	13 ⁵⁰ 50	0 ³ 3	14 ¹⁹ 19	24 ³⁰ 30	22 ¹⁶ 16	23 ³¹ 31	11 ⁴⁹ 49	11 ³ 3	23 ¹⁵ 15	21 ⁷ 7	F 16
S 17	7 44 15	26 ⁴⁰ 12	19 ⁵⁷ 57	8 ¹⁷ 17	6 ¹⁷ 17	14 ¹³ 13	0 ¹³ 13	14 ²⁵ 25	24 ³¹ 31	22 ¹⁵ 15	23 ³¹ 31	11 ⁵⁰ 50	11 ⁰ 0	23 ²² 22	21 ⁹ 9	S 17
S 18	7 48 11	27 ⁴¹ 17	5 ¹² 12	9 ⁴⁴ 44	7 ³² 32	14 ³⁵ 35	0 ²³ 23	14 ³¹ 31	24 ³¹ 31	22 ¹⁵ 15	23 ³⁰ 30	11 ⁴⁹ 49	10 ⁵⁷ 57	23 ²⁹ 29	21 ¹² 12	S 18
M 19	7 52 8	28 ⁴² 21	20 ²¹ 21	11 ¹² 12	8 ⁴⁷ 47	14 ⁵⁸ 58	0 ³² 32	14 ³⁶ 36	24 ³² 32	22 ¹⁴ 14	23 ²⁹ 29	11 ⁴⁷ 47	10 ⁵⁴ 54	23 ³⁵ 35	21 ¹⁴ 14	M 19
T 20	7 56 4	29 ⁴³ 25	5 ¹⁵ 15	12 ⁴⁰ 40	10 ² 2	15 ²¹ 21	0 ⁴² 42	14 ⁴² 42	24 ³³ 33	22 ¹⁴ 14	23 ²⁹ 29	11 ⁴⁵ 45	10 ⁵¹ 51	23 ⁴² 42	21 ¹⁷ 17	T 20
W 21	8 0 1	0 ⁴⁴ 27	19 ⁴⁷ 47	14 ¹⁰ 10	11 ¹⁷ 17	15 ⁴⁵ 45	0 ⁵² 52	14 ⁴⁸ 48	24 ³³ 33	22 ¹³ 13	23 ²⁸ 28	11 ⁴² 42	10 ⁴⁷ 47	23 ⁴⁹ 49	21 ¹⁹ 19	W 21
T 22	8 3 57	1 ⁴⁵ 28	3 ⁵² 52	15 ⁴⁰ 40	12 ³² 32	16 ⁹ 9	1 ¹ 1	14 ⁵³ 53	24 ³³ 33	22 ¹³ 13	23 ²⁷ 27	11 ⁴⁰ 40	10 ⁴⁴ 44	23 ⁵⁵ 55	21 ²² 22	T 22
F 23	8 7 54	2 ⁴⁶ 29	17 ²⁹ 29	17 ¹⁰ 10	13 ⁴⁷ 47	16 ³³ 33	1 ¹¹ 11	14 ⁵⁹ 59	24 ³⁴ 34	22 ¹³ 13	23 ²⁶ 26	11 ³⁸ 38	10 ⁴¹ 41	24 ² 2	21 ²⁵ 25	F 23
S 24	8 11 50	3 ⁴⁷ 28	0 ³⁹ 39	18 ⁴² 42	15 ² 2	16 ⁵⁸ 58	1 ²⁰ 20	15 ⁴ 4	24 ³⁴ 34	22 ¹² 12	23 ²⁵ 25	11 ³⁸ 38	10 ³⁸ 38	24 ⁹ 9	21 ²⁷ 27	S 24
S 25	8 15 47	4 ⁴⁸ 25	13 ²⁵ 25	20 ¹⁴ 14	16 ¹⁷ 17	17 ²² 22	1 ²⁹ 29	15 ¹⁰ 10	24 ³⁴ 34	22 ¹² 12	23 ²⁴ 24	11 ³⁸ 38	10 ³⁵ 35	24 ¹⁵ 15	21 ³⁰ 30	S 25
M 26	8 19 44	5 ⁴⁹ 22	25 ⁵⁰ 50	21 ⁴⁷ 47	17 ³² 32	17 ⁴⁷ 47	1 ³⁸ 38	15 ¹⁵ 15	24 ³⁴ 34	22 ¹² 12	23 ²³ 23	11 ³⁹ 39	10 ³² 32	24 ²² 22	21 ³³ 33	M 26
T 27	8 23 40	6 ⁵⁰ 17	8 ¹¹ 0	23 ²⁰ 20	18 ⁴⁷ 47	18 ¹³ 13	1 ⁴⁷ 47	15 ²⁰ 20	24 ³⁵ 35	22 ¹² 12	23 ²² 22	11 ⁴¹ 41	10 ²⁸ 28	24 ²⁹ 29	21 ³⁶ 36	T 27
W 28	8 27 37	7 ⁵¹ 12	19 ⁵⁸ 58	24 ⁵⁴ 54	20 ² 2	18 ³⁸ 38	1 ⁵⁶ 56	15 ²⁶ 26	24 ³⁵ 35	22 ¹¹ 11	23 ²¹ 21	11 ⁴³ 43	10 ²⁵ 25	24 ³⁵ 35	21 ³⁹ 39	W 28
T 29	8 31 33	8 ⁵² 04	1 ⁵⁹ 59	26 ²⁹ 29	21 ¹⁷ 17	19 ⁴ 4	2 ⁴ 4	15 ³¹ 31	24 ³⁵ 35	22 ¹¹ 11	23 ²⁰ 20	11 ⁴⁴ 44	10 ²² 22	24 ⁴² 42	21 ⁴² 42	T 29
F 30	8 35 30	9 ⁵² 56	13 ³⁷ 37	28 ⁴ 4	22 ³² 32	19 ³⁰ 30	2 ¹³ 13	15 ³⁶ 36	24 ³⁵ 35	22 ¹¹ 11	23 ¹⁹ 19	11 ⁴⁴ 44	10 ¹⁹ 19	24 ⁴⁹ 49	21 ⁴⁵ 45	F 30
S 31	8 39 26	10 ⁵³ 46	25 ⁵⁴ 54	29 ³⁴ 34	23 ³⁴ 34	19 ⁵⁷ 57	2 ²¹ 21	15 ⁴¹ 41	24 ³⁵ 35	22 ¹¹ 11	23 ¹⁸ 18	11 ⁴³ 43	10 ¹⁶ 16	24 ⁵⁵ 55	21 ⁴⁸ 48	S 31

Delta T = 10.49 sec

Greg. Calendar

FEBRUARY 1722

00:00 UT

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

ASTRODIENST EPHEMERIS for the year 1722
geocentric

MARCH 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 33 46	10♈8'20	15♊50	21♋38	0♌0	4♍4	5♎24	17♏33	24♐9	22♑24	22♒38	10♓13	8♈43	28♉8	23♊26	S 1
M 2	10 37 43	11° 8'24	27°51	23°30	1°15	4°36	5°28	17°36	24♐7	22°25	22♑37	10♓5	8°40	28°15	23°29	M 2
T 3	10 41 40	12° 8'26	10♎2	25°20	2°30	5°7	5°31	17°38	24° 6	22°26	22°35	9°55	8°37	28°21	23°33	T 3
W 4	10 45 36	13° 8'25	22°23	27° 7	3°45	5°39	5°35	17°41	24° 4	22°27	22°34	9°43	8°34	28°28	23°36	W 4
T 5	10 49 33	14° 8'23	4♌55	28°53	4°59	6°11	5°38	17°43	24° 2	22°28	22°32	9°31	8°31	28°35	23°40	T 5
F 6	10 53 29	15° 8'19	17°39	0♍35	6°14	6°43	5°42	17°45	24° 0	22°29	22°30	9°20	8°28	28°41	23°44	F 6
S 7	10 57 26	16° 8'14	0♎35	2°14	7°29	7°14	5°45	17°47	23°59	22°30	22°29	9°10	8°24	28°48	23°48	S 7
S 8	11 1 22	17° 8'06	13°42	3°49	8°44	7°47	5°48	17°49	23°57	22°31	22°27	9° 3	8°21	28°55	23°51	S 8
M 9	11 5 19	18° 7'57	27° 2	5°19	9°58	8°19	5°50	17°51	23°55	22°33	22°25	8°59	8°18	29° 1	23°55	M 9
T 10	11 9 15	19° 7'47	10♏36	6°45	11°13	8°51	5°53	17°53	23°53	22°34	22°24	8°57	8°15	29° 8	23°59	T 10
W 11	11 13 12	20° 7'34	24°24	8° 5	12°28	9°23	5°55	17°55	23°51	22°35	22°22	8°D57	8°12	29°15	24° 2	W 11
T 12	11 17 8	21° 7'21	8♎37	9°19	13°43	9°56	5°57	17°56	23°49	22°36	22°21	8°R57	8° 9	29°21	24° 6	T 12
F 13	11 21 5	22° 7'05	22°46	10°26	14°57	10°28	5°59	17°58	23°47	22°38	22°19	8°56	8° 5	29°28	24°10	F 13
S 14	11 25 2	23° 6'48	7♎18	11°27	16°12	11° 1	6° 1	17°59	23°45	22°39	22°17	8°54	8° 2	29°35	24°13	S 14
S 15	11 28 58	24° 6'28	21°59	12°21	17°27	11°34	6° 3	18° 1	23°43	22°40	22°16	8°48	7°59	29°41	24°17	S 15
M 16	11 32 55	25° 6'07	6♈44	13° 7	18°41	12° 7	6° 4	18° 2	23°41	22°42	22°14	8°40	7°56	29°48	24°21	M 16
T 17	11 36 51	26° 5'44	21°24	13°45	19°56	12°40	6° 5	18° 3	23°39	22°43	22°12	8°30	7°53	29°55	24°25	T 17
W 18	11 40 48	27° 5'19	5♍52	14°16	21°11	13°13	6° 6	18° 4	23°36	22°44	22°11	8°18	7°49	0♌1	24°28	W 18
T 19	11 44 44	28° 4'52	20° 2	14°39	22°25	13°46	6° 7	18° 5	23°34	22°46	22° 9	8° 6	7°46	0° 8	24°32	T 19
F 20	11 48 41	29° 4'22	3♎47	14°53	23°40	14°19	6° 8	18° 6	23°32	22°47	22° 8	7°56	7°43	0°15	24°36	F 20
S 21	11 52 37	0♍35	17° 7	15°R 0	24°55	14°52	6° 8	18° 7	23°30	22°49	22° 6	7°47	7°40	0°21	24°39	S 21
S 22	11 56 34	1° 3'17	0♎1	14°59	26° 9	15°25	6° 8	18° 7	23°27	22°50	22° 4	7°42	7°37	0°28	24°43	S 22
M 23	12 0 31	2° 2'41	12°32	14°51	27°24	15°59	6°R 8	18° 8	23°25	22°52	22° 3	7°39	7°34	0°34	24°47	M 23
T 24	12 4 27	3° 2'03	24°44	14°35	28°38	16°32	6° 8	18° 8	23°23	22°53	22° 1	7°37	7°30	0°41	24°51	T 24
W 25	12 8 24	4° 1'22	6♎42	14°13	29°53	17° 6	6° 8	18° 8	23°20	22°55	22° 0	7°37	7°27	0°48	24°54	W 25
T 26	12 12 20	5° 0'39	18°33	13°44	1°Y 7	17°39	6° 8	18° 9	23°18	22°57	21°58	7°37	7°24	0°54	24°58	T 26
F 27	12 16 17	5°59'54	0♌20	13°10	2°22	18°13	6° 7	18° 9	23°16	22°58	21°56	7°36	7°21	1° 1	25° 2	F 27
S 28	12 20 13	6°59'07	12°10	12°32	3°36	18°47	6° 6	18°R 9	23°13	23° 0	21°55	7°32	7°18	1° 8	25° 5	S 28
S 29	12 24 10	7°58'17	24° 7	11°49	4°51	19°20	6° 5	18° 9	23°11	23° 2	21°53	7°26	7°15	1°14	25° 9	S 29
M 30	12 28 6	8°57'24	6♎15	11° 4	6° 5	19°54	6° 4	18° 9	23° 8	23° 3	21°52	7°17	7°11	1°21	25°13	M 30
T 31	12 32 3	9♍56'30	18♎36	10♍16	7♍20	20♎28	6♎2	18♎8	23♎6	23♎5	21♎50	7♎6	7♎8	1♌28	25♎16	T 31

Delta T = 10.49 sec

Greg. Calendar

APRIL 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 36 0	10♍55'33	1♌12	9°R28	8♍34	21♎2	6°R 1	18°R 8	23°R 3	23♎7	21°R49	6°R53	7♎5	1♌34	25♎20	W 1
T 2	12 39 56	11°54'35	14° 2	8♍39	9°48	21°36	5♎57	18♎8	23♎1	23° 9	21♎47	6♎39	7° 2	1°41	25°23	T 2
F 3	12 43 53	12°53'34	27° 7	7°52	11° 3	22°10	5°57	18° 7	22°58	23°10	21°46	6°27	6°59	1°48	25°27	F 3
S 4	12 47 49	13°52'31	10♎24	7° 6	12°17	22°44	5°55	18° 6	22°56	23°12	21°44	6°16	6°55	1°54	25°31	S 4
S 5	12 51 46	14°51'27	23°53	6°23	13°31	23°18	5°53	18° 6	22°53	23°14	21°43	6° 8	6°52	2° 1	25°34	S 5
M 6	12 55 42	15°50'21	7♎31	5°42	14°46	23°52	5°50	18° 5	22°51	23°16	21°41	6° 3	6°49	2° 8	25°38	M 6
T 7	12 59 39	16°49'13	21°17	5° 6	16° 0	24°27	5°47	18° 4	22°48	23°18	21°40	6° 0	6°46	2°14	25°41	T 7
W 8	13 3 35	17°48'03	5♎11	4°34	17°14	25° 1	5°44	18° 3	22°46	23°20	21°38	6°D 0	6°43	2°21	25°45	W 8
T 9	13 7 32	18°46'52	19°12	4° 7	18°29	25°35	5°41	18° 2	22°43	23°22	21°37	6°R 0	6°40	2°28	25°48	T 9
F 10	13 11 29	19°45'38	3♎21	3°44	19°43	26°10	5°38	18° 1	22°41	23°23	21°36	5°59	6°36	2°34	25°52	F 10
S 11	13 15 25	20°44'24	17°35	3°27	20°57	26°44	5°35	17°59	22°38	23°25	21°34	5°57	6°33	2°41	25°55	S 11
S 12	13 19 22	21°43'07	1♈53	3°15	22°12	27°19	5°31	17°58	22°36	23°27	21°33	5°52	6°30	2°48	25°59	S 12
M 13	13 23 18	22°41'49	16°11	3° 8	23°26	27°53	5°27	17°56	22°33	23°29	21°31	5°44	6°27	2°54	26° 2	M 13
T 14	13 27 15	23°40'28	0♍26	3°D 6	24°40	28°28	5°24	17°55	22°30	23°31	21°30	5°35	6°24	3° 1	26° 5	T 14
W 15	13 31 11	24°39'06	14°30	3°10	25°54	29° 3	5°19	17°53	22°28	23°33	21°29	5°24	6°20	3° 8	26° 9	W 15
T 16	13 35 8	25°37'42	28°21	3°18	27° 8	29°37	5°15	17°51	22°25	23°35	21°27	5°12	6°17	3°14	26°12	T 16
F 17	13 39 4	26°36'17	11♎52	3°32	28°23	0♎12	5°11	17°49	22°23	23°37	21°26	5° 2	6°14	3°21	26°15	F 17
S 18	13 43 1	27°34'49	25° 3	3°50	29°37	0°47	5° 6	17°47	22°20	23°40	21°25	4°54	6°11	3°28	26°19	S 18
S 19	13 46 57	28°33'19	7♎52	4°13	0♎51	1°22	5° 2	17°45	22°18	23°42	21°24	4°48	6° 8	3°34	26°22	S 19
M 20	13 50 54	29°31'47	20°22	4°40	2° 5	1°56	4°57	17°43	22°15	23°44	21°23	4°45	6° 5	3°41	26°25	M 20
T 21	13 54 51	0♎30'14	2♎34	5°11	3°19	2°31	4°52	17°41	22°13	23°46	21°21	4°D44	6° 1	3°48	26°28	T 21
W 22	13 58 47	1°28'38	14°34	5°47	4°33	3° 6	4°47	17°39	22°10	23°48	21°20	4°44	5°58	3°54	26°32	W 22
T 23	14 2 44	2°26'59	26°25	6°26	5°47	3°41	4°41	17°36	22° 7	23°50	21°19	4°45	5°55	4° 1	26°35	T 23
F 24	14 6 40	3°25'19	8♌15	7° 9	7° 2	4°16	4°36	17°34	22° 5	23°52	21°18	4°R45	5°52	4° 8	26°38	F 24
S 25	14 10 37	4°23'37	20° 7	7°56	8°16	4°51	4°30	17°31	22° 2	23°54	21°17	4°44	5°49	4°14	26°41	S 25
S 26	14 14 33	5°21'53	2♎6	8°46	9°30	5°26	4°25	17°29	22° 0	23°56	21°16	4°40	5°46	4°21	26°44	S 26
M 27	14 18 30	6°20'06	14°18	9°39	10°44	6° 2	4°19	17°26	21°58	23°59	21°15	4°34	5°42	4°28	26°47	M 27
T 28	14 22 26	7°18'18	26°46	10°35	11°58	6°37	4°13	17°23	21°55	24° 1	21°14	4°27	5°39	4°34	26°50	T 28
W 29	14 26 23	8°16'27	9♎32	11°35	13°12	7°12	4° 7	17°20	21°53	24° 3	21°13	4°18	5°36	4°41	26°53	W 29
T 30	14 30 20	9♎14'35	22♎38	12♍37	14♎26	7♎47	4♎0	17♎17	21♎50	24♎5	21♎12	4♎8	5♎33	4♌48	26♎56	T 30

Delta T = 10.49 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1722
geocentric

MAY 1722

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 34 16	10♌12'41	6♍1	13♋42	15♌39	8♌22	3°R54	17°R14	21°R48	24♌7	21°R11	3°R59	5♌30	4♌54	26♋59	F 1
S 2	14 38 13	11°10'45	19°41	14°50	16°53	8°58	3♌48	17♌11	21♌45	24°9	21♌10	3♌51	5°26	5°1	27°2	S 2
S 3	14 42 9	12°8'48	3♌35	16°0	18°7	9°33	3°41	17°8	21°43	24°12	21°9	3°46	5°23	5°8	27°5	S 3
M 4	14 46 6	13°6'49	17°38	17°13	19°21	10°8	3°35	17°5	21°41	24°14	21°8	3°42	5°20	5°14	27°8	M 4
T 5	14 50 2	14°4'49	1♌37	18°29	20°35	10°44	3°28	17°2	21°38	24°16	21°7	3°D41	5°17	5°21	27°10	T 5
W 6	14 53 59	15°2'47	15°59	19°47	21°49	11°19	3°21	16°58	21°36	24°18	21°6	3°42	5°14	5°28	27°13	W 6
T 7	14 57 55	16°0'45	0♌11	21°7	23°3	11°54	3°14	16°55	21°34	24°21	21°6	3°43	5°11	5°34	27°16	T 7
F 8	15 1 52	16°58'40	14°22	22°30	24°17	12°30	3°7	16°51	21°32	24°23	21°5	3°R44	5°7	5°41	27°19	F 8
S 9	15 5 49	17°56'35	28°30	23°54	25°31	13°5	3°0	16°48	21°29	24°25	21°4	3°43	5°4	5°48	27°21	S 9
S 10	15 9 45	18°54'28	12♋33	25°22	26°44	13°41	2°53	16°44	21°27	24°27	21°3	3°41	5°1	5°54	27°24	S 10
M 11	15 13 42	19°52'20	26°30	26°51	27°58	14°17	2°46	16°41	21°25	24°29	21°3	3°37	4°58	6°1	27°26	M 11
T 12	15 17 38	20°50'11	10♋18	28°22	29°12	14°52	2°38	16°37	21°23	24°32	21°2	3°31	4°55	6°8	27°29	T 12
W 13	15 21 35	21°48'00	23°56	29°56	0♌26	15°28	2°31	16°33	21°21	24°34	21°1	3°24	4°52	6°14	27°31	W 13
T 14	15 25 31	22°45'49	7♌20	1♌32	1°40	16°3	2°24	16°29	21°19	24°36	21°1	3°17	4°48	6°21	27°34	T 14
F 15	15 29 28	23°43'35	20°30	3°10	2°53	16°39	2°16	16°25	21°17	24°38	21°0	3°11	4°45	6°28	27°36	F 15
S 16	15 33 24	24°41'21	3♌23	4°50	4°7	17°15	2°9	16°22	21°15	24°41	21°0	3°6	4°42	6°34	27°39	S 16
S 17	15 37 21	25°39'05	16°0	6°33	5°21	17°51	2°1	16°18	21°13	24°43	20°59	3°3	4°39	6°41	27°41	S 17
M 18	15 41 18	26°36'48	28°22	8°17	6°34	18°26	1°54	16°14	21°11	24°45	20°59	3°D2	4°36	6°48	27°43	M 18
T 19	15 45 14	27°34'29	10♌30	10°4	7°48	19°2	1°46	16°10	21°9	24°47	20°58	3°2	4°32	6°54	27°46	T 19
W 20	15 49 11	28°32'09	22°28	11°53	9°2	19°38	1°38	16°5	21°7	24°50	20°58	3°3	4°29	7°1	27°48	W 20
T 21	15 53 7	29°29'48	4♌20	13°43	10°16	20°14	1°31	16°1	21°5	24°52	20°58	3°5	4°26	7°8	27°50	T 21
F 22	15 57 4	0♌27'25	16°9	15°37	11°29	20°50	1°23	15°57	21°3	24°54	20°57	3°7	4°23	7°14	27°52	F 22
S 23	16 1 0	1°25'00	28°2	17°32	12°43	21°26	1°15	15°53	21°2	24°56	20°57	3°R7	4°20	7°21	27°54	S 23
S 24	16 4 57	2°22'34	10♌2	19°29	13°57	22°2	1°8	15°49	21°0	24°59	20°57	3°7	4°17	7°28	27°56	S 24
M 25	16 8 53	3°20'06	22°15	21°28	15°10	22°37	1°0	15°45	20°58	25°1	20°56	3°6	4°13	7°34	27°58	M 25
T 26	16 12 50	4°17'38	4♌44	23°29	16°24	23°13	0°53	15°40	20°57	25°3	20°56	3°3	4°10	7°41	28°0	T 26
W 27	16 16 47	5°15'07	17°34	25°32	17°37	23°49	0°45	15°36	20°55	25°5	20°56	2°59	4°7	7°48	28°2	W 27
T 28	16 20 43	6°12'36	0♌47	27°37	18°51	24°25	0°37	15°32	20°53	25°8	20°56	2°55	4°4	7°54	28°4	T 28
F 29	16 24 40	7°10'03	14°22	29°44	20°4	25°2	0°30	15°27	20°52	25°10	20°56	2°51	4°1	8°1	28°6	F 29
S 30	16 28 36	8°7'29	28°19	1♌52	21°18	25°38	0°22	15°23	20°50	25°12	20°56	2°48	3°58	8°8	28°7	S 30
S 31	16 32 33	9♌4'55	12♌33	4♌1	22♌31	26♌14	0♌15	15♌19	20♌49	25♌14	20♌56	2♌46	3♌54	8♌14	28♌9	S 31

Delta T = 10.50 sec

Greg. Calendar

JUNE 1722

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 36 29	10♌2'19	27♌1	6♌11	23♌45	26♌50	0°R7	15°R14	20°R48	25♌16	20°D56	2°D45	3♌51	8♌21	28♌11	M 1
T 2	16 40 26	10°59'43	11♌36	8°22	24°58	27°26	29♌59	15♌10	20♌46	25°19	20♌56	2°D45	3°48	8°28	28°12	T 2
W 3	16 44 23	11°57'05	26°13	10°34	26°12	28°2	29°53	15°5	20°45	25°21	20°56	2°46	3°45	8°34	28°14	W 3
T 4	16 48 19	12°54'28	10♌46	12°46	27°25	28°38	29°45	15°1	20°44	25°23	20°56	2°47	3°42	8°41	28°15	T 4
F 5	16 52 16	13°51'49	25°10	14°58	28°39	29°15	29°38	14°57	20°43	25°25	20°56	2°48	3°38	8°48	28°17	F 5
S 6	16 56 12	14°49'10	9♌23	17°10	29°52	29°51	29°31	14°52	20°41	25°27	20°56	2°R49	3°35	8°54	28°18	S 6
S 7	17 0 9	15°46'31	23°23	19°21	1♌6	0♌27	29°24	14°48	20°40	25°29	20°56	2°49	3°32	9°1	28°20	S 7
M 8	17 4 5	16°43'50	7♌8	21°32	2°19	1°3	29°17	14°43	20°39	25°32	20°56	2°48	3°29	9°8	28°21	M 8
T 9	17 8 2	17°41'10	20°38	23°41	3°33	1°40	29°10	14°39	20°38	25°34	20°57	2°47	3°26	9°14	28°22	T 9
W 10	17 11 58	18°38'29	3♌53	25°50	4°46	2°16	29°3	14°34	20°37	25°36	20°57	2°45	3°23	9°21	28°23	W 10
T 11	17 15 55	19°35'48	16°54	27°57	5°59	2°52	28°56	14°30	20°36	25°38	20°57	2°43	3°19	9°28	28°24	T 11
F 12	17 19 52	20°33'06	29°41	0♌2	7°13	3°29	28°49	14°26	20°35	25°40	20°57	2°42	3°16	9°34	28°26	F 12
S 13	17 23 48	21°30'24	12♌15	2°6	8°26	4°5	28°43	14°21	20°34	25°42	20°58	2°40	3°13	9°41	28°27	S 13
S 14	17 27 45	22°27'41	24°36	4°7	9°40	4°42	28°36	14°17	20°34	25°44	20°58	2°40	3°10	9°48	28°28	S 14
M 15	17 31 41	23°24'58	6♌46	6°7	10°53	5°18	28°30	14°13	20°33	25°46	20°59	2°D40	3°7	9°54	28°28	M 15
T 16	17 35 38	24°22'14	18°47	8°5	12°6	5°55	28°24	14°8	20°32	25°48	20°59	2°40	3°4	10°1	28°29	T 16
W 17	17 39 34	25°19'30	0♌41	10°1	13°20	6°31	28°18	14°4	20°32	25°50	21°0	2°41	3°0	10°8	28°30	W 17
T 18	17 43 31	26°16'45	12°31	11°54	14°33	7°8	28°12	14°0	20°31	25°52	21°0	2°41	2°57	10°14	28°31	T 18
F 19	17 47 27	27°14'00	24°20	13°46	15°46	7°44	28°6	13°55	20°31	25°54	21°1	2°42	2°54	10°21	28°32	F 19
S 20	17 51 24	28°11'13	6♌13	15°35	16°59	8°21	28°0	13°51	20°30	25°56	21°1	2°42	2°51	10°28	28°32	S 20
S 21	17 55 21	29°8'27	18°12	17°22	18°13	8°57	27°54	13°47	20°30	25°58	21°2	2°43	2°48	10°34	28°33	S 21
M 22	17 59 17	0♌5'39	0♌24	19°6	19°26	9°34	27°49	13°43	20°29	26°0	21°2	2°R43	2°44	10°41	28°34	M 22
T 23	18 3 14	1°25'1	12°52	20°49	20°39	10°11	27°43	13°39	20°29	26°2	21°3	2°43	2°41	10°48	28°34	T 23
W 24	18 7 10	2°0'03	25°40	22°29	21°52	10°47	27°38	13°35	20°29	26°4	21°4	2°43	2°38	10°54	28°35	W 24
T 25	18 11 7	2°57'14	8♌51	24°7	23°5	11°24	27°33	13°31	20°28	26°6	21°5	2°D43	2°35	11°1	28°35	T 25
F 26	18 15 3	3°54'25	22°28	25°42	24°19	12°1	27°28	13°27	20°28	26°8	21°5	2°43	2°32	11°8	28°35	F 26
S 27	18 19 0	4°51'35	6♌30	27°16	25°32	12°38	27°23	13°23	20°28	26°10	21°6	2°43	2°29	11°14	28°36	S 27
S 28	18 22 56	5°48'45	20°56	28°47	26°45	13°14	27°19	13°19	20°28	26°11	21°7	2°43	2°25	11°21	28°36	S 28
M 29	18 26 53	6°45'56	5♌40	0♌16	27°58	13°51	27°14	13°15	20°D28	26°13	21°8	2°R43	2°22	11°28	28°36	M 29
T 30	18 30 50	7♌43'06	20♌37	1♌42	29♌11	14♌28	27♌10	13♌11	20♌28	26♌15	21♌9	2♌43	2♌19	11♌34	28♌36	T 30

Delta T = 10.50 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1722

geocentric

JULY 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 34 46	8°40'16	5°37	3°12 6	0°124	15°12 5	27°R 6	13°R 7	20°128	26°17	21°10	2°R43	2°16	11°141	28°136	W 1
T 2	18 38 43	9°37'26	20°33	4°28	1°37	15°42	27°12 2	13°13 3	20°28	26°19	21°11	2°42	2°13	11°48	28°R36	T 2
F 3	18 42 39	10°34'36	5°17	5°47	2°50	16°19	26°58	13°0	20°29	26°20	21°12	2°41	2°10	11°54	28°36	F 3
S 4	18 46 36	11°31'47	19°44	7°3	4°3	16°56	26°54	12°56	20°29	26°22	21°13	2°40	2°6	12°1	28°36	S 4
S 5	18 50 32	12°28'58	3°49	8°18	5°16	17°33	26°51	12°53	20°29	26°24	21°14	2°40	2°3	12°8	28°36	S 5
M 6	18 54 29	13°26'10	17°33	9°29	6°29	18°9	26°47	12°49	20°29	26°25	21°15	2°D40	2°0	12°14	28°36	M 6
T 7	18 58 25	14°23'22	0°54	10°38	7°42	18°46	26°44	12°46	20°30	26°27	21°16	2°40	1°57	12°21	28°36	T 7
W 8	19 2 22	15°20'34	13°56	11°44	8°55	19°24	26°41	12°42	20°30	26°29	21°17	2°41	1°54	12°28	28°35	W 8
T 9	19 6 19	16°17'47	26°40	12°48	10°8	20°1	26°38	12°39	20°31	26°30	21°18	2°42	1°50	12°35	28°35	T 9
F 10	19 10 15	17°15'01	9°11 9	13°48	11°21	20°38	26°35	12°36	20°31	26°32	21°19	2°43	1°47	12°41	28°35	F 10
S 11	19 14 12	18°12'15	21°26	14°46	12°34	21°15	26°33	12°32	20°32	26°33	21°20	2°44	1°44	12°48	28°34	S 11
S 12	19 18 8	19°9'29	3°33	15°40	13°47	21°52	26°31	12°29	20°33	26°35	21°22	2°R44	1°41	12°55	28°34	S 12
M13	19 22 5	20°6'45	15°33	16°31	15°0	22°29	26°29	12°26	20°33	26°36	21°23	2°44	1°38	13°1	28°33	M13
T 14	19 26 1	21°4'00	27°27	17°19	16°13	23°6	26°27	12°23	20°34	26°38	21°24	2°43	1°35	13°8	28°32	T 14
W15	19 29 58	22°1'16	9°17	18°3	17°25	23°43	26°25	12°20	20°35	26°39	21°25	2°40	1°31	13°15	28°32	W15
T 16	19 33 54	22°58'32	21°6	18°43	18°38	24°21	26°23	12°18	20°36	26°41	21°27	2°37	1°28	13°21	28°31	T 16
F 17	19 37 51	23°55'48	2°56	19°20	19°51	24°58	26°22	12°15	20°37	26°42	21°28	2°34	1°25	13°28	28°30	F 17
S 18	19 41 48	24°53'05	14°50	19°53	21°4	25°35	26°21	12°12	20°38	26°44	21°30	2°31	1°22	13°35	28°29	S 18
S 19	19 45 44	25°50'22	26°51	20°22	22°16	26°13	26°20	12°10	20°39	26°45	21°31	2°28	1°19	13°41	28°28	S 19
M20	19 49 41	26°47'40	9°12	20°46	23°29	26°50	26°19	12°7	20°40	26°46	21°32	2°25	1°15	13°48	28°28	M20
T 21	19 53 37	27°44'58	21°27	21°6	24°42	27°27	26°18	12°5	20°41	26°48	21°34	2°24	1°12	13°55	28°27	T 21
W22	19 57 34	28°42'16	4°11	21°21	25°55	28°5	26°18	12°2	20°42	26°49	21°35	2°D24	1°9	14°1	28°25	W22
T 23	20 1 30	29°39'35	17°17	21°32	27°7	28°42	26°17	12°0	20°43	26°50	21°37	2°25	1°6	14°8	28°24	T 23
F 24	20 5 27	0°36'54	0°47	21°37	28°20	29°20	26°D17	11°58	20°45	26°51	21°38	2°27	1°3	14°15	28°23	F 24
S 25	20 9 23	1°34'14	14°45	21°R38	29°32	29°57	26°17	11°56	20°46	26°53	21°40	2°28	1°0	14°21	28°22	S 25
S 26	20 13 20	2°31'35	29°9	21°33	0°45	0°35	26°17	11°54	20°47	26°54	21°42	2°R29	0°56	14°28	28°21	S 26
M27	20 17 17	3°28'56	13°57	21°24	1°57	1°12	26°18	11°52	20°49	26°55	21°43	2°28	0°53	14°35	28°20	M27
T 28	20 21 13	4°26'17	29°2	21°9	3°10	1°50	26°18	11°50	20°50	26°56	21°45	2°27	0°50	14°41	28°18	T 28
W29	20 25 10	5°23'40	14°16	20°49	4°22	2°27	26°19	11°48	20°52	26°57	21°47	2°23	0°47	14°48	28°17	W29
T 30	20 29 6	6°21'03	29°29	20°24	5°35	3°5	26°20	11°47	20°53	26°58	21°48	2°19	0°44	14°55	28°15	T 30
F 31	20 33 3	7°18'28	14°30	19°155	6°47	3°42	26°121	11°45	20°55	26°59	21°50	2°14	0°41	15°12	28°14	F 31

Delta T = 10.50 sec

Greg. Calendar

AUGUST 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 36 59	8°15'53	29°12	19°R21	8°10	4°20	26°123	11°R44	20°57	27°10	21°52	2°R9	0°37	15°12	28°R12	S 1
S 2	20 40 56	9°13'20	13°29	18°13	9°12	4°58	26°24	11°42	20°58	27°1	21°53	2°6	0°34	15°15	28°11	S 2
M 3	20 44 52	10°10'48	27°19	18°1	10°24	5°36	26°26	11°41	21°0	27°2	21°55	2°3	0°31	15°22	28°9	M 3
T 4	20 48 49	11°8'18	10°41	17°17	11°37	6°13	26°28	11°40	21°2	27°3	21°57	2°D3	0°28	15°28	28°8	T 4
W 5	20 52 46	12°5'48	23°38	16°31	12°49	6°51	26°30	11°39	21°4	27°4	21°59	2°3	0°25	15°35	28°6	W 5
T 6	20 56 42	13°3'21	6°14	15°43	14°1	7°29	26°32	11°37	21°6	27°5	22°0	2°4	0°21	15°42	28°4	T 6
F 7	21 0 39	14°0'54	18°33	14°54	15°13	8°7	26°35	11°37	21°8	27°5	22°2	2°6	0°18	15°48	28°2	F 7
S 8	21 4 35	14°58'29	0°34	14°6	16°25	8°45	26°37	11°36	21°10	27°6	22°4	2°R7	0°15	15°55	28°1	S 8
S 9	21 8 32	15°56'06	12°37	13°19	17°38	9°23	26°40	11°35	21°12	27°7	22°6	2°6	0°12	16°2	27°59	S 9
M10	21 12 28	16°53'44	24°29	12°34	18°50	10°1	26°43	11°34	21°14	27°8	22°8	2°3	0°9	16°8	27°57	M10
T 11	21 16 25	17°51'23	6°19	11°53	20°2	10°38	26°46	11°34	21°16	27°8	22°10	1°59	0°6	16°15	27°55	T 11
W12	21 20 21	18°49'03	18°8	11°15	21°14	11°16	26°49	11°33	21°18	27°9	22°12	1°52	0°2	16°22	27°53	W12
T 13	21 24 18	19°46'45	29°59	10°42	22°26	11°55	26°53	11°33	21°20	27°10	22°14	1°44	29°159	16°28	27°51	T 13
F 14	21 28 15	20°44'28	11°53	10°15	23°38	12°33	26°56	11°33	21°23	27°10	22°16	1°35	29°56	16°35	27°49	F 14
S 15	21 32 11	21°42'12	23°52	9°53	24°50	13°11	27°0	11°33	21°25	27°11	22°18	1°25	29°53	16°42	27°47	S 15
S 16	21 36 8	22°39'57	5°58	9°39	26°2	13°49	27°4	11°D32	21°27	27°11	22°20	1°17	29°50	16°48	27°44	S 16
M17	21 40 4	23°37'44	18°13	9°31	27°13	14°27	27°8	11°32	21°30	27°12	22°22	1°10	29°47	16°55	27°42	M17
T 18	21 44 1	24°35'31	0°14	9°D31	28°25	15°5	27°13	11°33	21°32	27°12	22°24	1°5	29°43	17°2	27°40	T 18
W19	21 47 57	25°33'20	13°23	9°39	29°37	15°43	27°17	11°33	21°35	27°13	22°26	1°2	29°40	17°9	27°38	W19
T 20	21 51 54	26°31'10	26°24	9°54	0°49	16°22	27°22	11°33	21°37	27°13	22°28	1°D1	29°37	17°15	27°35	T 20
F 21	21 55 50	27°29'02	9°46	10°17	2°0	17°0	27°26	11°34	21°40	27°13	22°30	1°2	29°34	17°22	27°33	F 21
S 22	21 59 47	28°26'55	23°34	10°48	3°12	17°38	27°31	11°34	21°42	27°14	22°32	1°3	29°31	17°29	27°31	S 22
S 23	22 3 44	29°24'48	7°37	11°27	4°24	18°17	27°36	11°35	21°45	27°14	22°34	1°R3	29°27	17°35	27°28	S 23
M24	22 7 40	0°22'44	22°25	12°13	5°35	18°55	27°42	11°35	21°47	27°14	22°36	1°1	29°24	17°42	27°26	M24
T 25	22 11 37	1°20'40	7°23	13°7	6°47	19°33	27°47	11°36	21°50	27°14	22°38	0°57	29°21	17°49	27°24	T 25
W26	22 15 33	2°18'38	22°35	14°7	7°58	20°12	27°53	11°37	21°53	27°15	22°40	0°50	29°18	17°55	27°21	W26
T 27	22 19 30	3°16'38	7°51	15°15	9°10	20°50	27°58	11°38	21°56	27°15	22°42	0°42	29°15	18°2	27°19	T 27
F 28	22 23 26	4°14'39	23°0	16°28	10°21	21°29	28°4	11°39	21°58	27°15	22°45	0°33	29°12	18°9	27°16	F 28
S 29	22 27 23	5°12'42	7°51	17°48	11°32	22°7	28°10	11°40	22°1	27°15	22°47	0°24	29°8	18°15	27°14	S 29
S 30	22 31 19	6°10'47	22°18	19°13	12°44	22°46	28°17	11°42	22°4	27°15	22°49	0°16	29°5	18°22	27°11	S 30
M31	22 35 16	7°10'53	6°15	20°143	13°55	23°25	28°123	11°43	22°7	27°R15	22°51	0°10	29°11	18°29	27°11	M31

Delta T = 10.50 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1722

geocentric

SEPTEMBER 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 39 13	8 ^h 7'02"	19 ^h 8'42"	22 ^h 18'	15 ^h 6'	24 ^h 3'	28 ^h 12'	11 ^h 45'	22 ^h 10'	27 ^h 15'	22 ^h 53'	0 ^h 6'	28 ^h 59'	18 ^h 35'	27 ^h 6'	T 1
W 2	22 43 9	9 ^h 5'13"	2 ^h 11'42"	23 ^h 57'	16 ^h 17'	24 ^h 42'	28 ^h 36'	11 ^h 46'	22 ^h 13'	27 ^h 15'	22 ^h 55'	0 ^h 5'	28 ^h 56'	18 ^h 42'	27 ^h 3'	W 2
T 3	22 47 6	10 ^h 3'26"	15 ^h 17'	25 ^h 39'	17 ^h 28'	25 ^h 21'	28 ^h 43'	11 ^h 48'	22 ^h 16'	27 ^h 15'	22 ^h 58'	0 ^h 4'	28 ^h 53'	18 ^h 49'	27 ^h 1'	T 3
F 4	22 51 2	11 ^h 1'40"	27 ^h 34'	27 ^h 24'	18 ^h 39'	25 ^h 59'	28 ^h 50'	11 ^h 50'	22 ^h 19'	27 ^h 15'	23 ^h 0'	0 ^h 5'	28 ^h 49'	18 ^h 56'	26 ^h 58'	F 4
S 5	22 54 59	11 ^h 59'57"	9 ^h 36'	29 ^h 11'	19 ^h 50'	26 ^h 38'	28 ^h 57'	11 ^h 51'	22 ^h 22'	27 ^h 15'	23 ^h 2'	0 ^h 4'	28 ^h 46'	19 ^h 2'	26 ^h 55'	S 5
S 6	22 58 55	12 ^h 58'16"	21 ^h 30'	1 ^h 0'	21 ^h 1'	27 ^h 17'	29 ^h 4'	11 ^h 53'	22 ^h 25'	27 ^h 14'	23 ^h 4'	0 ^h 2'	28 ^h 43'	19 ^h 9'	26 ^h 52'	S 6
M 7	23 2 52	13 ^h 56'37"	3 ^h 19'	2 ^h 51'	22 ^h 12'	27 ^h 56'	29 ^h 11'	11 ^h 55'	22 ^h 28'	27 ^h 14'	23 ^h 6'	29 ^h 58'	28 ^h 40'	19 ^h 16'	26 ^h 50'	M 7
T 8	23 6 48	14 ^h 55'00"	15 ^h 7'	4 ^h 43'	23 ^h 23'	28 ^h 35'	29 ^h 19'	11 ^h 58'	22 ^h 31'	27 ^h 14'	23 ^h 9'	29 ^h 51'	28 ^h 37'	19 ^h 22'	26 ^h 47'	T 8
W 9	23 10 45	15 ^h 53'25"	26 ^h 58'	6 ^h 36'	24 ^h 34'	29 ^h 14'	29 ^h 26'	12 ^h 0'	22 ^h 35'	27 ^h 14'	23 ^h 11'	29 ^h 41'	28 ^h 33'	19 ^h 29'	26 ^h 44'	W 9
T 10	23 14 42	16 ^h 51'52"	8 ^h 53'	8 ^h 30'	25 ^h 44'	29 ^h 53'	29 ^h 34'	12 ^h 2'	22 ^h 38'	27 ^h 13'	23 ^h 13'	29 ^h 28'	28 ^h 30'	19 ^h 36'	26 ^h 42'	T 10
F 11	23 18 38	17 ^h 50'21"	20 ^h 55'	10 ^h 23'	26 ^h 55'	0 ^h 32'	29 ^h 42'	12 ^h 4'	22 ^h 41'	27 ^h 13'	23 ^h 15'	29 ^h 15'	28 ^h 27'	19 ^h 42'	26 ^h 39'	F 11
S 12	23 22 35	18 ^h 48'51"	3 ^h 4'	12 ^h 17'	28 ^h 6'	1 ^h 11'	29 ^h 50'	12 ^h 7'	22 ^h 44'	27 ^h 13'	23 ^h 18'	29 ^h 1'	28 ^h 24'	19 ^h 49'	26 ^h 36'	S 12
S 13	23 26 31	19 ^h 47'24"	15 ^h 21'	14 ^h 10'	29 ^h 16'	1 ^h 50'	29 ^h 58'	12 ^h 10'	22 ^h 48'	27 ^h 12'	23 ^h 20'	28 ^h 48'	28 ^h 21'	19 ^h 56'	26 ^h 33'	S 13
M14	23 30 28	20 ^h 45'58"	27 ^h 47'	16 ^h 3'	0 ^h 12'	2 ^h 29'	0 ^h 6'	12 ^h 12'	22 ^h 51'	27 ^h 12'	23 ^h 22'	28 ^h 38'	28 ^h 18'	20 ^h 2'	26 ^h 30'	M14
T 15	23 34 24	21 ^h 44'34"	10 ^h 12'	17 ^h 56'	1 ^h 37'	3 ^h 8'	0 ^h 15'	12 ^h 15'	22 ^h 54'	27 ^h 11'	23 ^h 24'	28 ^h 29'	28 ^h 14'	20 ^h 9'	26 ^h 28'	T 15
W16	23 38 21	22 ^h 43'12"	23 ^h 12'	19 ^h 48'	2 ^h 48'	3 ^h 47'	0 ^h 23'	12 ^h 18'	22 ^h 58'	27 ^h 11'	23 ^h 26'	28 ^h 24'	28 ^h 11'	20 ^h 16'	26 ^h 25'	W16
T 17	23 42 17	23 ^h 41'52"	6 ^h 15'	21 ^h 39'	3 ^h 58'	4 ^h 26'	0 ^h 32'	12 ^h 21'	23 ^h 1'	27 ^h 10'	23 ^h 29'	28 ^h 22'	28 ^h 8'	20 ^h 23'	26 ^h 22'	T 17
F 18	23 46 14	24 ^h 40'33"	19 ^h 35'	23 ^h 30'	5 ^h 8'	5 ^h 6'	0 ^h 40'	12 ^h 24'	23 ^h 5'	27 ^h 10'	23 ^h 31'	28 ^h 21'	28 ^h 5'	20 ^h 29'	26 ^h 19'	F 18
S 19	23 50 11	25 ^h 39'16"	3 ^h 15'	25 ^h 19'	6 ^h 18'	5 ^h 45'	0 ^h 49'	12 ^h 27'	23 ^h 8'	27 ^h 9'	23 ^h 33'	28 ^h 21'	28 ^h 2'	20 ^h 36'	26 ^h 16'	S 19
S 20	23 54 7	26 ^h 38'01"	17 ^h 15'	27 ^h 8'	7 ^h 28'	6 ^h 24'	0 ^h 58'	12 ^h 30'	23 ^h 11'	27 ^h 9'	23 ^h 35'	28 ^h 20'	27 ^h 58'	20 ^h 43'	26 ^h 14'	S 20
M21	23 58 4	27 ^h 36'47"	1 ^h 37'	28 ^h 56'	8 ^h 38'	7 ^h 4'	1 ^h 7'	12 ^h 33'	23 ^h 15'	27 ^h 8'	23 ^h 38'	28 ^h 18'	27 ^h 55'	20 ^h 49'	26 ^h 11'	M21
T 22	0 2 0	28 ^h 35'35"	16 ^h 18'	0 ^h 43'	9 ^h 48'	7 ^h 43'	1 ^h 17'	12 ^h 37'	23 ^h 18'	27 ^h 7'	23 ^h 40'	28 ^h 13'	27 ^h 52'	20 ^h 56'	26 ^h 8'	T 22
W23	0 5 57	29 ^h 34'25"	1 ^h 14'	2 ^h 29'	10 ^h 58'	8 ^h 23'	1 ^h 26'	12 ^h 40'	23 ^h 22'	27 ^h 6'	23 ^h 42'	28 ^h 5'	27 ^h 49'	21 ^h 3'	26 ^h 5'	W23
T 24	0 9 53	0 ^h 33'17"	16 ^h 16'	4 ^h 14'	12 ^h 8'	9 ^h 2'	1 ^h 35'	12 ^h 44'	23 ^h 25'	27 ^h 6'	23 ^h 44'	27 ^h 55'	27 ^h 46'	21 ^h 9'	26 ^h 2'	T 24
F 25	0 13 50	1 ^h 32'10"	1 ^h 15'	5 ^h 59'	13 ^h 18'	9 ^h 42'	1 ^h 45'	12 ^h 47'	23 ^h 29'	27 ^h 5'	23 ^h 47'	27 ^h 44'	27 ^h 43'	21 ^h 16'	25 ^h 59'	F 25
S 26	0 17 46	2 ^h 31'06"	16 ^h 2'	7 ^h 42'	14 ^h 27'	10 ^h 21'	1 ^h 55'	12 ^h 51'	23 ^h 33'	27 ^h 4'	23 ^h 49'	27 ^h 32'	27 ^h 39'	21 ^h 23'	25 ^h 57'	S 26
S 27	0 21 43	3 ^h 30'04"	0 ^h 8'28"	9 ^h 24'	15 ^h 37'	11 ^h 1'	2 ^h 4'	12 ^h 55'	23 ^h 36'	27 ^h 3'	23 ^h 51'	27 ^h 22'	27 ^h 36'	21 ^h 30'	25 ^h 54'	S 27
M28	0 25 39	4 ^h 29'04"	14 ^h 28'	11 ^h 6'	16 ^h 46'	11 ^h 40'	2 ^h 14'	12 ^h 59'	23 ^h 40'	27 ^h 2'	23 ^h 53'	27 ^h 14'	27 ^h 33'	21 ^h 36'	25 ^h 51'	M28
T 29	0 29 36	5 ^h 28'06"	27 ^h 59'	12 ^h 47'	17 ^h 55'	12 ^h 20'	2 ^h 24'	13 ^h 3'	23 ^h 43'	27 ^h 2'	23 ^h 55'	27 ^h 9'	27 ^h 30'	21 ^h 43'	25 ^h 48'	T 29
W30	0 33 33	6 ^h 27'10"	11 ^h 11'	14 ^h 27'	19 ^h 15'	13 ^h 10'	2 ^h 34'	13 ^h 7'	23 ^h 47'	27 ^h 1'	23 ^h 58'	27 ^h 11'	27 ^h 27'	21 ^h 50'	25 ^h 46'	W30

Delta T = 10.51 sec

Greg. Calendar

OCTOBER 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 37 29	7 ^h 26'17	23 ^h 11'41	16 ^h 06	20 ^h 14	13 ^h 40	2 ^h 44	13 ^h 11	23 ^h 51	27 ^h R 0	24 ^h 00	27 ^h D 6	27 ^h 11'24	21 ^h 05'56	25 ^h R43	T 1
F 2	0 41 26	8 ^h 25'27	6 ^h 50	17 ^h 44	21 ^h 23	14 ^h 19	2 ^h 55	13 ^h 15	23 ^h 54	26 ^h 59	24 ^h 2	27 ^h R 6	27 ^h 20	22 ^h 3	25 ^h R40	F 2
S 3	0 45 22	9 ^h 24'38	18 ^h 3	19 ^h 21	22 ^h 32	14 ^h 59	3 ^h 5	13 ^h 19	23 ^h 58	26 ^h 58	24 ^h 4	27 ^h 11'6	27 ^h 17	22 ^h 10	25 ^h 37	S 3
S 4	0 49 19	10 ^h 23'52	29 ^h 57	20 ^h 58	23 ^h 41	15 ^h 39	3 ^h 15	13 ^h 24	24 ^h 2	26 ^h 57	24 ^h 6	27 ^h 4	27 ^h 14	22 ^h 16	25 ^h 35	S 4
M 5	0 53 15	11 ^h 23'08	11 ^h 04'47	22 ^h 34	24 ^h 50	16 ^h 19	3 ^h 26	13 ^h 28	24 ^h 5	26 ^h 56	24 ^h 9	27 ^h 0	27 ^h 11	22 ^h 23	25 ^h 32	M 5
T 6	0 57 12	12 ^h 22'27	23 ^h 37	24 ^h 9	25 ^h 58	16 ^h 59	3 ^h 37	13 ^h 32	24 ^h 9	26 ^h 54	24 ^h 11	26 ^h 54	27 ^h 8	22 ^h 30	25 ^h 29	T 6
W 7	1 1 8	13 ^h 21'47	5 ^h 10'30	25 ^h 43	27 ^h 7	17 ^h 39	3 ^h 47	13 ^h 37	24 ^h 13	26 ^h 53	24 ^h 13	26 ^h 44	27 ^h 4	22 ^h 36	25 ^h 27	W 7
T 8	1 5 5	14 ^h 21'10	17 ^h 32	27 ^h 17	28 ^h 15	18 ^h 19	3 ^h 58	13 ^h 42	24 ^h 17	26 ^h 52	24 ^h 15	26 ^h 33	27 ^h 1	22 ^h 43	25 ^h 24	T 8
F 9	1 9 2	15 ^h 20'35	29 ^h 42	28 ^h 50	29 ^h 24	18 ^h 59	4 ^h 9	13 ^h 46	24 ^h 20	26 ^h 51	24 ^h 17	26 ^h 20	26 ^h 58	22 ^h 50	25 ^h 21	F 9
S 10	1 12 58	16 ^h 20'02	12 ^h 03	0 ^h 12'22	0 ^h 32	19 ^h 39	4 ^h 20	13 ^h 51	24 ^h 24	26 ^h 50	24 ^h 19	26 ^h 7	26 ^h 55	22 ^h 57	25 ^h 19	S 10
S 11	1 16 55	17 ^h 19'31	24 ^h 35	1 ^h 54	1 ^h 40	20 ^h 19	4 ^h 31	13 ^h 56	24 ^h 28	26 ^h 49	24 ^h 21	25 ^h 55	26 ^h 52	23 ^h 3	25 ^h 16	S 11
M12	1 20 51	18 ^h 19'03	7 ^h 18	3 ^h 25	2 ^h 48	21 ^h 0	4 ^h 42	14 ^h 1	24 ^h 32	26 ^h 47	24 ^h 23	25 ^h 45	26 ^h 49	23 ^h 10	25 ^h 14	M12
T 13	1 24 48	19 ^h 18'36	20 ^h 12	4 ^h 55	3 ^h 56	21 ^h 40	4 ^h 54	14 ^h 6	24 ^h 35	26 ^h 46	24 ^h 26	25 ^h 37	26 ^h 45	23 ^h 17	25 ^h 11	T 13
W14	1 28 44	20 ^h 18'11	3 ^h 17	6 ^h 25	5 ^h 4	22 ^h 20	5 ^h 5	14 ^h 11	24 ^h 39	26 ^h 45	24 ^h 28	25 ^h 32	26 ^h 42	23 ^h 23	25 ^h 9	W14
T 15	1 32 41	21 ^h 17'48	16 ^h 34	7 ^h 54	6 ^h 11	23 ^h 0	5 ^h 16	14 ^h 16	24 ^h 43	26 ^h 44	24 ^h 30	25 ^h 30	26 ^h 39	23 ^h 30	25 ^h 6	T 15
F 16	1 36 37	22 ^h 17'27	0 ^h 32	9 ^h 22	7 ^h 19	23 ^h 41	5 ^h 28	14 ^h 21	24 ^h 47	26 ^h 42	24 ^h 32	25 ^h D30	26 ^h 36	23 ^h 37	25 ^h 4	F 16
S 17	1 40 34	23 ^h 17'08	13 ^h 44	10 ^h 49	8 ^h 26	24 ^h 21	5 ^h 39	14 ^h 26	24 ^h 50	26 ^h 41	24 ^h 34	25 ^h 30	26 ^h 33	23 ^h 43	25 ^h 1	S 17
S 18	1 44 31	24 ^h 16'50	27 ^h 39	12 ^h 16	9 ^h 34	25 ^h 2	5 ^h 51	14 ^h 32	24 ^h 54	26 ^h 40	24 ^h 36	25 ^h R31	26 ^h 30	23 ^h 50	24 ^h 59	S 18
M19	1 48 27	25 ^h 16'34	11 ^h 48	13 ^h 42	10 ^h 41	25 ^h 42	6 ^h 3	14 ^h 37	24 ^h 58	26 ^h 38	24 ^h 38	25 ^h 29	26 ^h 26	23 ^h 57	24 ^h 57	M19
T 20	1 52 24	26 ^h 16'20	26 ^h 10	15 ^h 7	11 ^h 47	26 ^h 23	6 ^h 15	14 ^h 42	25 ^h 2	26 ^h 37	24 ^h 40	25 ^h 26	26 ^h 23	24 ^h 4	24 ^h 54	T 20
W21	1 56 20	27 ^h 16'07	10 ^h 42	16 ^h 32	12 ^h 54	27 ^h 3	6 ^h 26	14 ^h 48	25 ^h 5	26 ^h 35	24 ^h 42	25 ^h 20	26 ^h 20	24 ^h 10	24 ^h 52	W21
T 22	2 0 17	28 ^h 15'56	25 ^h 19	17 ^h 55	14 ^h 1	27 ^h 44	6 ^h 38	14 ^h 53	25 ^h 9	26 ^h 34	24 ^h 44	25 ^h 12	26 ^h 17	24 ^h 17	24 ^h 50	T 22
F 23	2 4 13	29 ^h 15'47	9 ^h Y55	19 ^h 18	15 ^h 7	28 ^h 25	6 ^h 50	14 ^h 59	25 ^h 13	26 ^h 33	24 ^h 46	25 ^h 3	26 ^h 14	24 ^h 24	24 ^h 48	F 23
S 24	2 8 10	0 ^h 15'539	24 ^h 21	20 ^h 40	16 ^h 13	29 ^h 5	7 ^h 2	15 ^h 5	25 ^h 17	26 ^h 31	24 ^h 48	24 ^h 54	26 ^h 10	24 ^h 30	24 ^h 46	S 24
S 25	2 12 6	1 ^h 15'34	8 ^h 33	22 ^h 1	17 ^h 19	29 ^h 46	7 ^h 15	15 ^h 10	25 ^h 21	26 ^h 30	24 ^h 49	24 ^h 46	26 ^h 7	24 ^h 37	24 ^h 43	S 25
M26	2 16 3	2 ^h 15'30	22 ^h 24	23 ^h 21	18 ^h 25	0 ^h 12'27	7 ^h 27	15 ^h 16	25 ^h 24	26 ^h 28	24 ^h 51	24 ^h 40	26 ^h 4	24 ^h 44	24 ^h 41	M26
T 27	2 20 0	3 ^h 15'29	5 ^h 11'51	24 ^h 39	19 ^h 31	1 ^h 8	7 ^h 39	15 ^h 22	25 ^h 28	26 ^h 27	24 ^h 53	24 ^h 36	26 ^h 1	24 ^h 50	24 ^h 39	T 27
W28	2 23 56	4 ^h 15'30	18 ^h 54	25 ^h 57	20 ^h 36	1 ^h 49	7 ^h 51	15 ^h 28	25 ^h 32	26 ^h 25	24 ^h 55	24 ^h D34	25 ^h 58	24 ^h 57	24 ^h 37	W28
T 29	2 27 53	5 ^h 15'33	1 ^h 53'53	27 ^h 13	21 ^h 41	2 ^h 29	8 ^h 4	15 ^h 34	25 ^h 35	26 ^h 23	24 ^h 57	24 ^h 34	25 ^h 55	25 ^h 4	24 ^h 35	T 29
F 30	2 31 49	6 ^h 15'38	13 ^h 56	28 ^h 28	22 ^h 46	3 ^h 10	8 ^h 16	15 ^h 40	25 ^h 39	26 ^h 22	24 ^h 59	24 ^h 35	25 ^h 51	25 ^h 11	24 ^h 33	F 30
S 31	2 35 46	7 ^h 15'45	2 ^h 56	2 ^h 29'14	23 ^h 35	3 ^h 15	8 ^h 29	15 ^h 46	25 ^h 43	26 ^h 30	25 ^h 00	24 ^h 11'37	25 ^h 11'48	25 ^h 01'17	24 ^h 32'31	S 31

ASTRODIENST EPHEMERIS for the year 1722
geocentric

NOVEMBER 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 39 42	8♍15°54	7♎58	0♊52	24♊56	4♍32	8♊41	15♊52	25♎47	26°R19	25♎2	24°R37	25♎45	25♎24	24°R30	S 1
M 2	2 43 39	9°16'05	19°49	2° 1	26° 0	5°14	8°54	15°58	25°50	26♎17	25° 4	24♎37	25°42	25°31	24°R28	M 2
T 3	2 47 35	10°16'18	1♎40	3° 8	27° 4	5°55	9° 6	16° 4	25°54	26°16	25° 6	24°34	25°39	25°37	24°26	T 3
W 4	2 51 32	11°16'34	13°37	4°13	28° 8	6°36	9°19	16°10	25°58	26°14	25° 7	24°30	25°35	25°44	24°24	W 4
T 5	2 55 29	12°16'51	25°42	5°14	29°12	7°17	9°32	16°16	26° 1	26°12	25° 9	24°23	25°32	25°51	24°23	T 5
F 6	2 59 25	13°17'10	7♎59	6°13	0♊15	7°58	9°45	16°22	26° 5	26°11	25°11	24°16	25°29	25°58	24°21	F 6
S 7	3 3 22	14°17'31	20°31	7° 8	1°18	8°40	9°58	16°29	26° 9	26° 9	25°12	24° 9	25°26	26° 4	24°20	S 7
S 8	3 7 18	15°17'54	3♍18	7°59	2°21	9°21	10°10	16°35	26°12	26° 7	25°14	24° 1	25°23	26°11	24°18	S 8
M 9	3 11 15	16°18'19	16°20	8°46	3°23	10° 3	10°23	16°42	26°16	26° 6	25°16	23°56	25°20	26°18	24°17	M 9
T 10	3 15 11	17°18'45	29°36	9°27	4°25	10°44	10°36	16°48	26°20	26° 4	25°17	23°51	25°16	26°24	24°15	T 10
W 11	3 19 8	18°19'13	13♊5	10° 3	5°27	11°25	10°49	16°54	26°23	26° 2	25°19	23°49	25°13	26°31	24°14	W 11
T 12	3 23 4	19°19'43	26°46	10°33	6°28	12° 7	11° 2	17° 1	26°27	26° 1	25°20	23°D49	25°10	26°38	24°12	T 12
F 13	3 27 1	20°20'14	10♊35	10°56	7°29	12°49	11°16	17° 8	26°30	25°59	25°22	23°49	25° 7	26°44	24°11	F 13
S 14	3 30 58	21°20'46	24°32	11°11	8°30	13°30	11°29	17°14	26°34	25°57	25°23	23°51	25° 4	26°51	24°10	S 14
S 15	3 34 54	22°21'20	8♎35	11°R17	9°31	14°12	11°42	17°21	26°37	25°56	25°25	23°52	25° 1	26°58	24° 9	S 15
M 16	3 38 51	23°21'54	22°43	11°15	10°31	14°54	11°55	17°27	26°41	25°54	25°26	23°R53	24°57	27° 5	24° 8	M 16
T 17	3 42 47	24°22'30	6♎54	11° 2	11°30	15°35	12° 8	17°34	26°44	25°52	25°27	23°52	24°54	27°11	24° 7	T 17
W 18	3 46 44	25°23'07	21° 7	10°39	12°29	16°17	12°22	17°41	26°48	25°50	25°29	23°50	24°51	27°18	24° 6	W 18
T 19	3 50 40	26°23'45	5♎18	10° 6	13°28	16°59	12°35	17°47	26°51	25°49	25°30	23°47	24°48	27°25	24° 5	T 19
F 20	3 54 37	27°24'25	19°24	9°22	14°26	17°41	12°48	17°54	26°54	25°47	25°31	23°43	24°45	27°31	24° 4	F 20
S 21	3 58 33	28°25'05	3♎21	8°27	15°24	18°23	13° 2	18° 1	26°58	25°45	25°33	23°39	24°41	27°38	24° 3	S 21
S 22	4 2 30	29°25'47	17° 7	7°23	16°21	19° 5	13°15	18° 8	27° 1	25°44	25°34	23°36	24°38	27°45	24° 2	S 22
M 23	4 6 27	0♊26°30	0♎37	6°11	17°18	19°47	13°28	18°15	27° 5	25°42	25°35	23°33	24°35	27°52	24° 1	M 23
T 24	4 10 23	1°27'15	13°49	4°54	18°14	20°29	13°42	18°21	27° 8	25°40	25°36	23°32	24°32	27°58	24° 1	T 24
W 25	4 14 20	2°28'01	26°44	3°32	19° 9	21°11	13°55	18°28	27°11	25°39	25°37	23°D31	24°29	28° 5	24° 0	W 25
T 26	4 18 16	3°28'48	9♎20	2° 9	20° 4	21°53	14° 9	18°35	27°14	25°37	25°38	23°32	24°26	28°12	24° 0	T 26
F 27	4 22 13	4°29'37	21°40	0°49	20°59	22°35	14°22	18°42	27°18	25°35	25°39	23°34	24°22	28°18	23°59	F 27
S 28	4 26 9	5°30'27	3♎47	29♍32	21°52	23°18	14°36	18°49	27°21	25°34	25°41	23°35	24°19	28°25	23°59	S 28
S 29	4 30 6	6°31'18	15°45	28°23	22°46	24° 0	14°49	18°56	27°24	25°32	25°42	23°37	24°16	28°32	23°58	S 29
M 30	4 34 2	7♊32°11	27♎37	27♍23	23♊38	24♍42	15♊3	19♊3	27♎27	25♎30	25♎43	23♎38	24♎13	28♎39	23♎58	M 30

Delta T = 10.51 sec

Greg. Calendar

DECEMBER 1722

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 37 59	8♊33°05	9♎29	26°R32	24♊30	25♍25	15♊17	19♊10	27♎30	25°R29	25♎44	23°R38	24♎10	28♎45	23°R58	T 1
W 2	4 41 56	9°34'00	21°25	25♍53	25°21	26° 7	15°30	19°17	27°33	25♎27	25°44	23♎37	24° 7	28°52	23°R57	W 2
T 3	4 45 52	10°34'57	3♎31	25°25	26°11	26°49	15°44	19°24	27°36	25°25	25°45	23°36	24° 3	28°59	23°57	T 3
F 4	4 49 49	11°35'54	15°49	25° 9	27° 0	27°32	15°57	19°31	27°39	25°24	25°46	23°35	24° 0	29° 5	23°57	F 4
S 5	4 53 45	12°36'53	28°25	25°D 3	27°49	28°14	16°11	19°38	27°42	25°22	25°47	23°33	23°57	29°12	23°D57	S 5
S 6	4 57 42	13°37'54	11♍20	25° 8	28°37	28°57	16°25	19°45	27°45	25°20	25°48	23°32	23°54	29°19	23°57	S 6
M 7	5 1 38	14°38'55	24°36	25°23	29°24	29°40	16°38	19°52	27°48	25°19	25°49	23°31	23°51	29°25	23°57	M 7
T 8	5 5 35	15°39'57	8♊11	25°46	0♊10	0♊22	16°52	19°59	27°51	25°17	25°49	23°30	23°47	29°32	23°57	T 8
W 9	5 9 31	16°41'00	22° 5	26°17	0°55	1° 5	17° 6	20° 6	27°54	25°16	25°50	23°D30	23°44	29°39	23°57	W 9
T 10	5 13 28	17°42'04	6♊13	26°55	1°38	1°48	17°19	20°13	27°56	25°14	25°51	23°30	23°41	29°46	23°58	T 10
F 11	5 17 25	18°43'09	20°32	27°40	2°21	2°31	17°33	20°20	27°59	25°13	25°51	23°30	23°38	29°52	23°58	F 11
S 12	5 21 21	19°44'14	4♎56	28°30	3° 3	3°14	17°47	20°27	28° 2	25°11	25°52	23°31	23°35	29°59	23°58	S 12
S 13	5 25 18	20°45'20	19°21	29°25	3°44	3°57	18° 0	20°35	28° 4	25°10	25°53	23°31	23°32	0♎6	23°59	S 13
M 14	5 29 14	21°46'26	3♎42	0♊24	4°23	4°39	18°14	20°42	28° 7	25° 8	25°53	23°31	23°28	0°12	23°59	M 14
T 15	5 33 11	22°47'32	17°56	1°28	5° 1	5°22	18°28	20°49	28°10	25° 7	25°54	23°31	23°25	0°19	24° 0	T 15
W 16	5 37 7	23°48'38	2♎1	2°34	5°38	6° 5	18°41	20°56	28°12	25° 5	25°54	23°31	23°22	0°26	24° 0	W 16
T 17	5 41 4	24°49'45	15°56	3°43	6°14	6°49	18°55	21° 3	28°15	25° 4	25°54	23°31	23°19	0°33	24° 1	T 17
F 18	5 45 0	25°50'51	29°38	4°55	6°48	7°32	19° 8	21°10	28°17	25° 2	25°55	23°31	23°16	0°39	24° 2	F 18
S 19	5 48 57	26°51'58	13♎8	6° 9	7°20	8°15	19°22	21°17	28°20	25° 1	25°55	23°32	23°13	0°46	24° 2	S 19
S 20	5 52 54	27°53'06	26°26	7°25	7°51	8°58	19°36	21°24	28°22	25° 0	25°56	23°32	23° 9	0°53	24° 3	S 20
M 21	5 56 50	28°54'13	9♎30	8°43	8°21	9°41	19°49	21°31	28°24	24°58	25°56	23°33	23° 6	0°59	24° 4	M 21
T 22	6 0 47	29°55'21	22°21	10° 2	8°49	10°25	20° 3	21°38	28°27	24°57	25°56	23°R33	23° 3	1° 6	24° 5	T 22
W 23	6 4 43	0♊56°29	4♎59	11°23	9°15	11° 8	20°16	21°45	28°29	24°56	25°56	23°33	23° 0	1°13	24° 6	W 23
T 24	6 8 40	1°57'38	17°24	12°45	9°39	11°51	20°30	21°52	28°31	24°54	25°57	23°32	22°57	1°20	24° 7	T 24
F 25	6 12 36	2°58'46	29°38	14° 8	10° 1	12°35	20°43	21°59	28°33	24°53	25°57	23°31	22°53	1°26	24° 8	F 25
S 26	6 16 33	3°59'55	11♎43	15°32	10°22	13°18	20°57	22° 6	28°35	24°52	25°57	23°29	22°50	1°33	24° 9	S 26
S 27	6 20 30	5° 1'05	23°39	16°56	10°40	14° 2	21°10	22°13	28°37	24°51	25°57	23°28	22°47	1°40	24°10	S 27
M 28	6 24 26	6° 2'14	5♎32	18°22	10°57	14°45	21°24	22°20	28°39	24°49	25°57	23°26	22°44	1°46	24°12	M 28
T 29	6 28 23	7° 3'24	17°23	19°48	11°11	15°29	21°37	22°27	28°41	24°48	25°R57	23°24	22°41	1°53	24°13	T 29
W 30	6 32 19	8° 4'34	29°18	21°15	11°23	16°12	21°51	22°34	28°43	24°47	25°57	23°24	22°38	2° 0	24°14	W 30
T 31	6 36 16	9♊54	11♎21	22♊43	11♎33	16♊56	22♊4	22♊41	28♎45	24♎46	25♎57	23°D23	22♎34	2♎7	24♎16	T 31

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