

SAULĖS IR MĖNULIO PUSIAUJINĖS KOORDINATĖS 2022 METAIS

ALGIRDAS KAZLAUSKAS

Lentelės antrajame stulpelyje pateikiamos Julijaus dienos, skaičiuojamos nuo 4713 metų pr. Kr. sausio 1 d. vidurdienio. Pvz., 2022 m. sausio 1 d. 0 val. pasauliniu arba 2 val. Lietuvos laiku yra 2 459 580.5 Julijaus dienos. Pusinis dienų skaičius gaunamas todėl, kad Julijaus dienos pradžia laikomas vidurdienis, o kalendorinės paros – vidurnaktis.

3–6 stulpeliuose pateikiamos Saulės ir Mėnulio koordinatės – rektascensija α ir deklinacija δ 0 val. pasauliniu laiku. Žinant pasaulinį laiką, vietinis vidutinis Saulės laikas apskaičiuojamas pagal formulę:

$$t = T_0 + \lambda^h,$$

kurioje T_0 – pasaulinis laikas, λ^h – vietos geografinė ilguma, išreikšta valandomis. Pavyzdžiui, Grinvičo vidurnaktį (0 val. pasauliniu laiku) Vilniuje atitinka 1 val. 41 min., Kaune – 1 val. 34 min. ir t.t. Juostinis laikas, kurį rodo mūsų laikrodžiai, apskaičiuojamas pagal formulę:

$$T = t + N - \lambda^h,$$

kurioje t – vietinis vidutinis Saulės laikas, N – laiko juostos numeris (2), λ^h – vietos geografinė ilguma. Įvedus vasaros laiką, pridedama dar viena valanda.

7-ame stulpelyje pateikiamas žvaigždžinis laikas Grinvičo vidurnaktį (0 val. pasauliniu laiku). Vietinis žvaigždžinis laikas apskaičiuojamas pagal formulę

$$S = S_0 + t + 9^s.86(t - \lambda^h),$$

kurioje S_0 – žvaigždžinis laikas, pateiktas lentelėje, t – vietinis vidutinis Saulės laikas, λ^h – vietos geografinė ilguma. Pataisa $9^s.86(t - \lambda^h)$ gaunama laiko sekundėmis.

8-ame stulpelyje pateikiama laiko pataisa η , reikalinga apskaičiuojant tikrąjį Saulės laiką iš vidutinio Saulės laiko pagal formulę:

$$t_{S.L.} = t_{vid.S.L.} - \eta$$

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Sausis

MĒn. diena	Julijaus diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9580.5	18 45.8	-23 01	16 56.3	-23 55	6 42 31	+03 18
2	9581.5	18 50.2	-22 56	18 02.7	-25 59	6 46 28	+03 46
3	9582.5	18 54.6	-22 51	19 10.3	-26 07	6 50 24	+04 14
4	9583.5	18 59.0	-22 45	20 16.2	-24 20	6 54 21	+04 42
5	9584.5	19 03.4	-22 38	21 18.2	-20 56	6 58 17	+05 09
6	9585.5	19 07.8	-22 31	22 15.2	-16 21	7 02 14	+05 36
7	9586.5	19 12.2	-22 24	23 07.7	-11 03	7 06 11	+06 02
8	9587.5	19 16.6	-22 16	23 56.5	-05 25	7 10 07	+06 28
9	9588.5	19 20.9	-22 08	0 42.8	+00 16	7 14 04	+06 53
10	9589.5	19 25.3	-21 59	1 27.8	+05 47	7 18 00	+07 18
11	9590.5	19 29.6	-21 50	2 12.6	+10 57	7 21 57	+07 42
12	9591.5	19 34.0	-21 41	2 58.1	+15 37	7 25 53	+08 06
13	9592.5	19 38.3	-21 31	3 45.0	+19 38	7 29 50	+08 29
14	9593.5	19 42.6	-21 21	4 33.9	+22 50	7 33 46	+08 51
15	9594.5	19 46.9	-21 10	5 24.7	+25 04	7 37 43	+09 12
16	9595.5	19 51.2	-20 59	6 17.2	+26 12	7 41 40	+09 33
17	9596.5	19 55.5	-20 47	7 10.6	+26 06	7 45 36	+09 54
18	9597.5	19 59.8	-20 35	8 03.9	+24 47	7 49 33	+10 13
19	9598.5	20 04.0	-20 23	8 56.1	+22 16	7 53 29	+10 32
20	9599.5	20 08.3	-20 10	9 46.8	+18 43	7 57 26	+10 50
21	9600.5	20 12.5	-19 57	10 35.9	+14 16	8 01 22	+11 08
22	9601.5	20 16.7	-19 44	11 23.6	+09 08	8 05 19	+11 24
23	9602.5	20 20.9	-19 30	12 10.8	+03 32	8 09 15	+11 40
24	9603.5	20 25.1	-19 16	12 58.1	-02 19	8 13 12	+11 55
25	9604.5	20 29.3	-19 01	13 46.9	-08 12	8 17 09	+12 10
26	9605.5	20 33.5	-18 46	14 38.2	-13 48	8 21 05	+12 23
27	9606.5	20 37.6	-18 31	15 33.0	-18 49	8 25 02	+12 36
28	9607.5	20 41.8	-18 16	16 32.0	-22 51	8 28 58	+12 48
29	9608.5	20 45.9	-18 60	17 35.1	-25 28	8 32 55	+12 59
30	9609.5	20 50.0	-17 44	18 40.8	-26 22	8 36 51	+13 10
31	9610.5	20 54.1	-17 27	19 46.7	-25 22	8 40 48	+13 19

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Vasaris

Mēn. diena	Julijauss diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9611.5	20 58.2	-17 10	20 50.2	-22 37	8 44 44	+13 28
2	9612.5	21 02.3	-16 53	21 49.8	-18 26	8 48 41	+13 36
3	9613.5	21 06.3	-16 36	22 45.1	-13 17	8 52 38	+13 43
4	9614.5	21 10.4	-16 18	23 36.4	-07 35	8 56 34	+13 50
5	9615.5	21 14.4	-16 60	0 24.8	-01 43	9 00 31	+13 55
6	9616.5	21 18.4	-15 41	1 11.3	+04 03	9 04 27	+13 60
7	9617.5	21 22.4	-15 23	1 57.1	+09 30	9 08 24	+14 04
8	9618.5	21 26.4	-15 04	2 43.1	+14 26	9 12 20	+14 07
9	9619.5	21 30.4	-14 45	3 30.1	+18 42	9 16 17	+14 09
10	9620.5	21 34.4	-14 26	4 18.7	+22 11	9 20 13	+14 11
11	9621.5	21 38.3	-14 06	5 09.1	+24 42	9 24 10	+14 11
12	9622.5	21 42.3	-13 46	6 01.2	+26 09	9 28 07	+14 11
13	9623.5	21 46.2	-13 26	6 54.4	+26 23	9 32 03	+14 10
14	9624.5	21 50.1	-13 06	7 47.8	+25 23	9 36 00	+14 09
15	9625.5	21 54.0	-12 46	8 40.7	+23 10	9 39 56	+14 06
16	9626.5	21 57.9	-12 25	9 32.3	+19 49	9 43 53	+14 03
17	9627.5	22 01.8	-12 04	10 22.4	+15 30	9 47 49	+13 59
18	9628.5	22 05.7	-11 43	11 11.1	+10 24	9 51 46	+13 55
19	9629.5	22 09.5	-11 22	11 59.0	+04 46	9 55 42	+13 50
20	9630.5	22 13.4	-11 00	12 46.8	-01 09	9 59 39	+13 44
21	9631.5	22 17.2	-10 39	13 35.4	-07 07	10 03 36	+13 37
22	9632.5	22 21.0	-10 17	14 26.0	-12 50	10 07 32	+13 30
23	9633.5	22 24.8	-09 55	15 19.4	-17 58	10 11 29	+13 22
24	9634.5	22 28.6	-09 33	16 16.3	-22 11	10 15 25	+13 14
25	9635.5	22 32.4	-09 11	17 16.8	-25 08	10 19 22	+13 05
26	9636.5	22 36.2	-08 49	18 20.0	-26 29	10 23 18	+12 56
27	9637.5	22 40.0	-08 26	19 24.0	-26 05	10 27 15	+12 46
28	9638.5	22 43.8	-08 03	20 26.8	-23 56	10 31 11	+12 35

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Kovas

MĒn. diena	Julijaus diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9639.5	22 47.5	-07 41	21 26.6	-20 17	10 35 08	+12 24
2	9640.5	22 51.3	-07 18	22 22.7	-15 29	10 39 05	+12 12
3	9641.5	22 55.0	-06 55	23 15.2	-09 56	10 43 01	+12 00
4	9642.5	22 58.7	-06 32	0 04.8	-04 01	10 46 58	+11 48
5	9643.5	23 02.5	-06 09	0 52.4	+01 56	10 50 54	+11 35
6	9644.5	23 06.2	-05 46	1 39.1	+07 39	10 54 51	+11 21
7	9645.5	23 09.9	-05 22	2 25.8	+12 55	10 58 47	+11 07
8	9646.5	23 13.6	-04 59	3 13.1	+17 33	11 02 44	+10 53
9	9647.5	23 17.3	-04 35	4 01.8	+21 22	11 06 40	+10 38
10	9648.5	23 21.0	-04 12	4 52.0	+24 15	11 10 37	+10 23
11	9649.5	23 24.7	-03 48	5 43.7	+26 03	11 14 34	+10 08
12	9650.5	23 28.4	-03 25	6 36.6	+26 40	11 18 30	+09 52
13	9651.5	23 32.0	-03 01	7 29.9	+26 04	11 22 27	+09 36
14	9652.5	23 35.7	-02 38	8 22.8	+24 13	11 26 23	+09 20
15	9653.5	23 39.4	-02 14	9 14.7	+21 13	11 30 20	+09 03
16	9654.5	23 43.0	-01 50	10 05.4	+17 09	11 34 16	+08 46
17	9655.5	23 46.7	-01 27	10 54.8	+12 13	11 38 13	+08 29
18	9656.5	23 50.3	-01 03	11 43.4	+06 37	11 42 09	+08 11
19	9657.5	23 54.0	-00 39	12 32.0	+00 35	11 46 06	+07 54
20	9658.5	23 57.6	-00 15	13 21.3	-05 34	11 50 03	+07 36
21	9659.5	0 01.3	+00 08	14 12.4	-11 33	11 53 59	+07 19
22	9660.5	0 04.9	+00 32	15 06.0	-17 01	11 57 56	+07 01
23	9661.5	0 08.6	+00 56	16 02.9	-21 34	12 01 52	+06 43
24	9662.5	0 12.2	+01 19	17 03.0	-24 51	12 05 49	+06 25
25	9663.5	0 15.9	+01 43	18 05.5	-26 34	12 09 45	+06 07
26	9664.5	0 19.5	+02 07	19 08.7	-26 34	12 13 42	+05 49
27	9665.5	0 23.1	+02 30	20 10.7	-24 51	12 17 38	+05 30
28	9666.5	0 26.8	+02 54	21 10.0	-21 37	12 21 35	+05 12
29	9667.5	0 30.4	+03 17	22 05.7	-17 11	12 25 32	+04 54
30	9668.5	0 34.1	+03 40	22 58.0	-11 55	12 29 28	+04 36
31	9669.5	0 37.7	+04 04	23 47.5	-06 08	12 33 25	+04 19

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Balandis

MĒn. diena	Julijauss diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9670.5	0 41.4	+04 27	0 35.1	-00 11	12 37 21	+04 01
2	9671.5	0 45.0	+04 50	1 21.8	+05 40	12 41 18	+03 43
3	9672.5	0 48.6	+05 13	2 08.4	+11 10	12 45 14	+03 25
4	9673.5	0 52.3	+05 36	2 55.8	+16 07	12 49 11	+03 08
5	9674.5	0 56.0	+05 59	3 44.3	+20 18	12 53 07	+02 51
6	9675.5	0 59.6	+06 22	4 34.4	+23 34	12 57 04	+02 34
7	9676.5	1 03.3	+06 44	5 26.0	+25 46	13 01 01	+02 17
8	9677.5	1 06.9	+07 07	6 18.7	+26 48	13 04 57	+01 60
9	9678.5	1 10.6	+07 29	7 11.7	+26 37	13 08 54	+01 43
10	9679.5	1 14.3	+07 52	8 04.5	+25 12	13 12 50	+01 27
11	9680.5	1 17.9	+08 14	8 56.2	+22 36	13 16 47	+01 11
12	9681.5	1 21.6	+08 36	9 46.7	+18 55	13 20 43	+00 55
13	9682.5	1 25.3	+08 58	10 36.1	+14 19	13 24 40	+00 40
14	9683.5	1 29.0	+09 19	11 24.6	+08 56	13 28 36	+00 25
15	9684.5	1 32.7	+09 41	12 13.2	+03 00	13 32 33	+00 10
16	9685.5	1 36.4	+10 02	13 02.5	-03 15	13 36 30	-00 05
17	9686.5	1 40.1	+10 24	13 53.7	-09 29	13 40 26	-00 19
18	9687.5	1 43.8	+10 45	14 47.6	-15 20	13 44 23	-00 33
19	9688.5	1 47.5	+11 05	15 45.0	-20 23	13 48 19	-00 46
20	9689.5	1 51.3	+11 26	16 45.9	-24 13	13 52 16	-00 59
21	9690.5	1 55.0	+11 47	17 49.6	-26 26	13 56 12	-01 11
22	9691.5	1 58.7	+12 07	18 54.0	-26 52	14 00 09	-01 23
23	9692.5	2 02.5	+12 27	19 57.1	-25 31	14 04 05	-01 35
24	9693.5	2 06.2	+12 47	20 57.1	-22 35	14 08 02	-01 46
25	9694.5	2 10.0	+13 07	21 53.2	-18 25	14 11 59	-01 57
26	9695.5	2 13.8	+13 26	22 45.5	-13 22	14 15 55	-02 07
27	9696.5	2 17.6	+13 46	23 34.7	-07 46	14 19 52	-02 17
28	9697.5	2 21.4	+14 05	0 21.8	-01 55	14 23 48	-02 26
29	9698.5	2 25.2	+14 23	1 07.9	+03 55	14 27 45	-02 34
30	9699.5	2 29.0	+14 42	1 53.9	+09 30	14 31 41	-02 42

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Gegužē

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9700.5	2 32.8	+15 00	2 40.5	+14 38	14 35 38	-02 50
2	9701.5	2 36.6	+15 18	3 28.5	+19 05	14 39 34	-02 57
3	9702.5	2 40.4	+15 36	4 18.2	+22 42	14 43 31	-03 03
4	9703.5	2 44.3	+15 54	5 09.5	+25 16	14 47 28	-03 09
5	9704.5	2 48.1	+16 11	6 02.0	+26 42	14 51 24	-03 15
6	9705.5	2 52.0	+16 28	6 55.0	+26 54	14 55 21	-03 20
7	9706.5	2 55.9	+16 45	7 47.6	+25 52	14 59 17	-03 24
8	9707.5	2 59.8	+17 02	8 39.3	+23 40	15 03 14	-03 28
9	9708.5	3 03.6	+17 18	9 29.4	+20 23	15 07 10	-03 31
10	9709.5	3 07.5	+17 34	10 18.2	+16 10	15 11 07	-03 33
11	9710.5	3 11.5	+17 49	11 06.0	+11 09	15 15 03	-03 35
12	9711.5	3 15.4	+18 05	11 53.6	+05 29	15 19 00	-03 37
13	9712.5	3 19.3	+18 20	12 41.8	-00 35	15 22 57	-03 38
14	9713.5	3 23.2	+18 34	13 31.7	-06 50	15 26 53	-03 38
15	9714.5	3 27.2	+18 49	14 24.5	-12 56	15 30 50	-03 38
16	9715.5	3 31.1	+19 03	15 21.1	-18 27	15 34 46	-03 37
17	9716.5	3 35.1	+19 17	16 22.0	-22 55	15 38 43	-03 36
18	9717.5	3 39.1	+19 30	17 26.7	-25 52	15 42 39	-03 34
19	9718.5	3 43.0	+19 43	18 33.2	-26 58	15 46 36	-03 32
20	9719.5	3 47.0	+19 56	19 39.1	-26 07	15 50 32	-03 29
21	9720.5	3 51.0	+20 08	20 41.8	-23 31	15 54 29	-03 26
22	9721.5	3 55.1	+20 20	21 40.1	-19 33	15 58 26	-03 21
23	9722.5	3 59.1	+20 32	22 33.8	-14 36	16 02 22	-03 17
24	9723.5	4 03.1	+20 43	23 23.8	-09 05	16 06 19	-03 12
25	9724.5	4 07.1	+20 54	0 11.2	-03 17	16 10 15	-03 06
26	9725.5	4 11.2	+21 05	0 57.0	+02 32	16 14 12	-02 60
27	9726.5	4 15.2	+21 15	1 42.4	+08 08	16 18 08	-02 53
28	9727.5	4 19.3	+21 25	2 28.3	+13 21	16 22 05	-02 46
29	9728.5	4 23.4	+21 35	3 15.4	+17 57	16 26 01	-02 38
30	9729.5	4 27.4	+21 44	4 04.3	+21 47	16 29 58	-02 30
31	9730.5	4 31.5	+21 53	4 55.0	+24 39	16 33 55	-02 22

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Birželis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9731.5	4 35.6	+22 01	5 47.2	+26 24	16 37 51	-02 13
2	9732.5	4 39.7	+22 09	6 40.1	+26 56	16 41 48	-02 03
3	9733.5	4 43.8	+22 17	7 32.9	+26 15	16 45 44	-01 54
4	9734.5	4 47.9	+22 24	8 24.7	+24 22	16 49 41	-01 44
5	9735.5	4 52.1	+22 31	9 14.8	+21 25	16 53 37	-01 33
6	9736.5	4 56.2	+22 38	10 03.3	+17 30	16 57 34	-01 22
7	9737.5	5 00.3	+22 44	10 50.4	+12 49	17 01 30	-01 11
8	9738.5	5 04.4	+22 49	11 36.8	+07 29	17 05 27	-01 00
9	9739.5	5 08.6	+22 55	12 23.4	+01 41	17 09 24	-00 49
10	9740.5	5 12.7	+23 60	13 11.2	-04 22	17 13 20	-00 37
11	9741.5	5 16.8	+23 04	14 01.6	-10 26	17 17 17	-00 25
12	9742.5	5 21.0	+23 08	14 55.6	-16 09	17 21 13	-00 13
13	9743.5	5 25.1	+23 12	15 54.3	-21 06	17 25 10	-00 00
14	9744.5	5 29.3	+23 15	16 57.8	-24 46	17 29 06	+00 12
15	9745.5	5 33.4	+23 18	18 05.0	-26 42	17 33 03	+00 25
16	9746.5	5 37.6	+23 20	19 13.1	-26 38	17 36 59	+00 38
17	9747.5	5 41.8	+23 22	20 19.3	-24 35	17 40 56	+00 50
18	9748.5	5 45.9	+23 24	21 21.2	-20 55	17 44 53	+01 03
19	9749.5	5 50.1	+23 25	22 18.1	-16 04	17 48 49	+01 16
20	9750.5	5 54.2	+23 26	23 10.4	-10 31	17 52 46	+01 29
21	9751.5	5 58.4	+23 26	23 59.3	-04 39	17 56 42	+01 42
22	9752.5	6 02.6	+23 26	0 46.0	+01 15	18 00 39	+01 55
23	9753.5	6 06.7	+23 26	1 31.7	+06 57	18 04 35	+02 09
24	9754.5	6 10.9	+23 25	2 17.4	+12 15	18 08 32	+02 21
25	9755.5	6 15.0	+23 24	3 04.0	+16 59	18 12 28	+02 34
26	9756.5	6 19.2	+23 22	3 52.2	+20 58	18 16 25	+02 47
27	9757.5	6 23.3	+23 20	4 42.2	+24 03	18 20 22	+02 60
28	9758.5	6 27.5	+23 17	5 33.9	+26 03	18 24 18	+03 12
29	9759.5	6 31.6	+23 14	6 26.7	+26 53	18 28 15	+03 25
30	9760.5	6 35.8	+23 11	7 19.6	+26 28	18 32 11	+03 37

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Liepa

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9761.5	6 39.9	+23 07	8 11.7	+24 52	18 36 08	+03 49
2	9762.5	6 44.1	+23 03	9 02.3	+22 08	18 40 04	+04 00
3	9763.5	6 48.2	+22 59	9 51.0	+18 27	18 44 01	+04 12
4	9764.5	6 52.3	+22 54	10 38.0	+13 58	18 47 57	+04 23
5	9765.5	6 56.4	+22 48	11 23.8	+08 51	18 51 54	+04 33
6	9766.5	7 00.6	+22 43	12 09.3	+03 16	18 55 51	+04 44
7	9767.5	7 04.7	+22 36	12 55.4	-02 34	18 59 47	+04 54
8	9768.5	7 08.8	+22 30	13 43.4	-08 28	19 03 44	+05 03
9	9769.5	7 12.9	+22 23	14 34.4	-14 10	19 07 40	+05 12
10	9770.5	7 17.0	+22 16	15 29.6	-19 19	19 11 37	+05 21
11	9771.5	7 21.0	+22 08	16 29.8	-23 27	19 15 33	+05 29
12	9772.5	7 25.1	+22 60	17 34.7	-26 07	19 19 30	+05 37
13	9773.5	7 29.2	+21 51	18 42.5	-26 54	19 23 26	+05 45
14	9774.5	7 33.2	+21 43	19 50.4	-25 40	19 27 23	+05 52
15	9775.5	7 37.3	+21 33	20 55.4	-22 32	19 31 20	+05 58
16	9776.5	7 41.3	+21 24	21 55.8	-17 58	19 35 16	+06 04
17	9777.5	7 45.4	+21 14	22 51.5	-12 27	19 39 13	+06 09
18	9778.5	7 49.4	+21 04	23 43.0	-06 27	19 43 09	+06 14
19	9779.5	7 53.4	+20 53	0 31.6	-00 21	19 47 06	+06 19
20	9780.5	7 57.4	+20 42	1 18.6	+05 34	19 51 02	+06 22
21	9781.5	8 01.4	+20 31	2 05.0	+11 05	19 54 59	+06 26
22	9782.5	8 05.4	+20 19	2 51.8	+16 01	19 58 55	+06 28
23	9783.5	8 09.4	+20 07	3 39.9	+20 13	20 02 52	+06 31
24	9784.5	8 13.3	+19 55	4 29.5	+23 31	20 06 49	+06 32
25	9785.5	8 17.3	+19 42	5 20.9	+25 46	20 10 45	+06 33
26	9786.5	8 21.2	+19 29	6 13.4	+26 51	20 14 42	+06 34
27	9787.5	8 25.2	+19 16	7 06.4	+26 43	20 18 38	+06 34
28	9788.5	8 29.1	+19 02	7 58.9	+25 21	20 22 35	+06 33
29	9789.5	8 33.0	+18 48	8 50.0	+22 50	20 26 31	+06 32
30	9790.5	8 36.9	+18 34	9 39.4	+19 19	20 30 28	+06 30
31	9791.5	8 40.9	+18 19	10 26.9	+14 56	20 34 24	+06 27

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Rugpjūtis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9792.5	8 44.7	+18 04	11 13.0	+09 55	20 38 21	+06 24
2	9793.5	8 48.6	+17 49	11 58.3	+04 26	20 42 18	+06 20
3	9794.5	8 52.5	+17 34	12 43.7	-01 20	20 46 14	+06 16
4	9795.5	8 56.3	+17 18	13 30.2	-07 10	20 50 11	+06 11
5	9796.5	9 00.2	+17 02	14 19.1	-12 49	20 54 07	+06 05
6	9797.5	9 04.0	+16 45	15 11.5	-18 00	20 58 04	+05 59
7	9798.5	9 07.9	+16 29	16 08.2	-22 22	21 02 00	+05 52
8	9799.5	9 11.7	+16 12	17 09.6	-25 29	21 05 57	+05 45
9	9800.5	9 15.5	+15 55	18 14.7	-26 57	21 09 53	+05 37
10	9801.5	9 19.3	+15 38	19 21.5	-26 30	21 13 50	+05 28
11	9802.5	9 23.1	+15 20	20 27.3	-24 08	21 17 47	+05 19
12	9803.5	9 26.9	+15 02	21 29.7	-20 05	21 21 43	+05 09
13	9804.5	9 30.6	+14 44	22 27.8	-14 49	21 25 40	+04 59
14	9805.5	9 34.4	+14 26	23 21.9	-08 49	21 29 36	+04 48
15	9806.5	9 38.1	+14 07	0 12.7	-02 32	21 33 33	+04 36
16	9807.5	9 41.9	+13 48	1 01.3	+03 40	21 37 29	+04 24
17	9808.5	9 45.6	+13 29	1 49.0	+09 31	21 41 26	+04 12
18	9809.5	9 49.3	+13 10	2 36.8	+14 47	21 45 22	+03 59
19	9810.5	9 53.1	+12 51	3 25.3	+19 18	21 49 19	+03 45
20	9811.5	9 56.8	+12 31	4 15.1	+22 54	21 53 16	+03 31
21	9812.5	10 00.5	+12 11	5 06.4	+25 28	21 57 12	+03 17
22	9813.5	10 04.2	+11 51	5 58.9	+26 51	22 01 09	+03 02
23	9814.5	10 07.9	+11 31	6 51.9	+27 01	22 05 05	+02 47
24	9815.5	10 11.5	+11 11	7 44.7	+25 57	22 09 02	+02 31
25	9816.5	10 15.2	+10 50	8 36.3	+23 41	22 12 58	+02 15
26	9817.5	10 18.9	+10 29	9 26.4	+20 21	22 16 55	+01 58
27	9818.5	10 22.5	+10 08	10 14.6	+16 07	22 20 51	+01 41
28	9819.5	10 26.2	+09 47	11 01.4	+11 09	22 24 48	+01 24
29	9820.5	10 29.8	+09 26	11 47.2	+05 39	22 28 45	+01 06
30	9821.5	10 33.5	+09 05	12 32.9	-00 09	22 32 41	+00 48
31	9822.5	10 37.1	+08 43	13 19.3	-06 03	22 36 38	+00 30

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 0 val. pasauliniu laiku

Rugsējis

Mēn. diena	Julijauss diena	Saulē		Mēnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9823.5	10 40.7	+08 22	14 07.5	-11 47	22 40 34	+00 11
2	9824.5	10 44.4	+08 60	14 58.5	-17 05	22 44 31	-00 08
3	9825.5	10 48.0	+07 38	15 53.2	-21 37	22 48 27	-00 27
4	9826.5	10 51.6	+07 16	16 52.1	-25 01	22 52 24	-00 47
5	9827.5	10 55.2	+06 54	17 54.5	-26 55	22 56 20	-01 07
6	9828.5	10 58.8	+06 31	18 59.1	-27 03	23 00 17	-01 27
7	9829.5	11 02.4	+06 09	20 03.5	-25 21	23 04 13	-01 48
8	9830.5	11 06.0	+05 47	21 05.7	-21 56	23 08 10	-02 08
9	9831.5	11 09.6	+05 24	22 04.4	-17 07	23 12 07	-02 29
10	9832.5	11 13.2	+05 01	22 59.5	-11 22	23 16 03	-02 50
11	9833.5	11 16.8	+04 39	23 51.4	-05 06	23 20 00	-03 11
12	9834.5	11 20.4	+04 16	0 41.2	+01 16	23 23 56	-03 32
13	9835.5	11 24.0	+03 53	1 29.9	+07 26	23 27 53	-03 54
14	9836.5	11 27.6	+03 30	2 18.5	+13 05	23 31 49	-04 15
15	9837.5	11 31.1	+03 07	3 07.6	+18 01	23 35 46	-04 36
16	9838.5	11 34.7	+02 44	3 57.9	+22 02	23 39 42	-04 58
17	9839.5	11 38.3	+02 21	4 49.5	+25 00	23 43 39	-05 19
18	9840.5	11 41.9	+01 58	5 42.3	+26 47	23 47 36	-05 41
19	9841.5	11 45.5	+01 34	6 35.5	+27 19	23 51 32	-06 02
20	9842.5	11 49.1	+01 11	7 28.5	+26 36	23 55 29	-06 24
21	9843.5	11 52.7	+00 48	8 20.5	+24 40	23 59 25	-06 45
22	9844.5	11 56.2	+00 24	9 11.0	+21 37	0 03 22	-07 06
23	9845.5	11 59.8	+00 01	9 59.8	+17 36	0 07 18	-07 27
24	9846.5	12 03.4	-00 22	10 47.2	+12 47	0 11 15	-07 48
25	9847.5	12 07.0	-00 46	11 33.6	+07 20	0 15 11	-08 09
26	9848.5	12 10.6	-01 09	12 19.7	+01 29	0 19 08	-08 30
27	9849.5	12 14.2	-01 32	13 06.5	-04 33	0 23 05	-08 50
28	9850.5	12 17.8	-01 56	13 54.9	-10 29	0 27 01	-09 11
29	9851.5	12 21.4	-02 19	14 45.9	-16 02	0 30 58	-09 31
30	9852.5	12 25.0	-02 42	15 40.3	-20 51	0 34 54	-09 51

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Spalis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9853.5	12 28.7	-03 06	16 38.5	-24 34	0 38 51	-10 10
2	9854.5	12 32.3	-03 29	17 39.9	-26 49	0 42 47	-10 29
3	9855.5	12 35.9	-03 52	18 43.3	-27 23	0 46 44	-10 49
4	9856.5	12 39.5	-04 15	19 46.6	-26 09	0 50 40	-11 07
5	9857.5	12 43.2	-04 39	20 48.0	-23 14	0 54 37	-11 26
6	9858.5	12 46.8	-05 02	21 46.1	-18 54	0 58 34	-11 44
7	9859.5	12 50.5	-05 25	22 40.8	-13 32	1 02 30	-12 01
8	9860.5	12 54.1	-05 47	23 32.5	-07 30	1 06 27	-12 19
9	9861.5	12 57.8	-06 10	0 22.2	-01 10	1 10 23	-12 36
10	9862.5	13 01.4	-06 33	1 10.8	+05 06	1 14 20	-12 52
11	9863.5	13 05.1	-06 56	1 59.3	+11 01	1 18 16	-13 08
12	9864.5	13 08.8	-07 18	2 48.5	+16 20	1 22 13	-13 24
13	9865.5	13 12.5	-07 41	3 38.9	+20 47	1 26 09	-13 39
14	9866.5	13 16.2	-08 03	4 30.7	+24 12	1 30 06	-13 53
15	9867.5	13 19.9	-08 26	5 23.8	+26 27	1 34 03	-14 07
16	9868.5	13 23.6	-08 48	6 17.5	+27 26	1 37 59	-14 20
17	9869.5	13 27.4	-09 10	7 10.9	+27 08	1 41 56	-14 33
18	9870.5	13 31.1	-09 32	8 03.3	+25 35	1 45 52	-14 45
19	9871.5	13 34.9	-09 53	8 54.1	+22 54	1 49 49	-14 57
20	9872.5	13 38.6	-10 15	9 43.1	+19 13	1 53 45	-15 08
21	9873.5	13 42.4	-10 36	10 30.5	+14 40	1 57 42	-15 18
22	9874.5	13 46.2	-10 58	11 16.9	+09 26	2 01 38	-15 28
23	9875.5	13 50.0	-11 19	12 03.0	+03 41	2 05 35	-15 37
24	9876.5	13 53.8	-11 40	12 49.8	-02 23	2 09 32	-15 45
25	9877.5	13 57.6	-12 01	13 38.1	-08 30	2 13 28	-15 52
26	9878.5	14 01.4	-12 21	14 29.2	-14 21	2 17 25	-15 59
27	9879.5	14 05.3	-12 42	15 23.7	-19 34	2 21 21	-16 05
28	9880.5	14 09.1	-13 02	16 22.3	-23 45	2 25 18	-16 10
29	9881.5	14 13.0	-13 22	17 24.4	-26 30	2 29 14	-16 15
30	9882.5	14 16.9	-13 42	18 28.5	-27 30	2 33 11	-16 19
31	9883.5	14 20.7	-14 02	19 32.6	-26 40	2 37 07	-16 22

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Lapkritis

Mēn. diena	Julijauss diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9884.5	14 24.6	-14 21	20 34.5	-24 06	2 41 04	-16 24
2	9885.5	14 28.6	-14 40	21 32.8	-20 06	2 45 01	-16 26
3	9886.5	14 32.5	-14 59	22 27.3	-15 02	2 48 57	-16 27
4	9887.5	14 36.4	-15 18	23 18.6	-09 15	2 52 54	-16 27
5	9888.5	14 40.4	-15 36	0 07.5	-03 07	2 56 50	-16 26
6	9889.5	14 44.4	-15 54	0 55.3	+03 05	3 00 47	-16 24
7	9890.5	14 48.4	-16 12	1 42.9	+09 04	3 04 43	-16 22
8	9891.5	14 52.3	-16 30	2 31.2	+14 34	3 08 40	-16 18
9	9892.5	14 56.4	-16 47	3 20.9	+19 20	3 12 36	-16 14
10	9893.5	15 00.4	-17 04	4 12.3	+23 09	3 16 33	-16 09
11	9894.5	15 04.4	-17 21	5 05.2	+25 50	3 20 30	-16 03
12	9895.5	15 08.5	-17 37	5 59.1	+27 16	3 24 26	-15 56
13	9896.5	15 12.6	-17 54	6 53.0	+27 24	3 28 23	-15 49
14	9897.5	15 16.6	-18 09	7 45.9	+26 15	3 32 19	-15 40
15	9898.5	15 20.7	-18 25	8 37.1	+23 57	3 36 16	-15 31
16	9899.5	15 24.8	-18 40	9 26.3	+20 37	3 40 12	-15 21
17	9900.5	15 29.0	-18 55	10 13.7	+16 24	3 44 09	-15 10
18	9901.5	15 33.1	-19 10	10 59.6	+11 28	3 48 05	-14 58
19	9902.5	15 37.3	-19 24	11 45.0	+05 59	3 52 02	-14 45
20	9903.5	15 41.4	-19 38	12 30.7	+00 06	3 55 59	-14 32
21	9904.5	15 45.6	-19 51	13 17.9	-05 59	3 59 55	-14 17
22	9905.5	15 49.8	-20 04	14 07.7	-11 59	4 03 52	-14 02
23	9906.5	15 54.0	-20 17	15 01.2	-17 33	4 07 48	-13 46
24	9907.5	15 58.2	-20 30	15 59.2	-22 17	4 11 45	-13 29
25	9908.5	16 02.5	-20 42	17 01.7	-25 41	4 15 41	-13 12
26	9909.5	16 06.7	-20 53	18 07.4	-27 21	4 19 38	-12 54
27	9910.5	16 11.0	-21 05	19 13.9	-27 04	4 23 34	-12 34
28	9911.5	16 15.3	-21 15	20 18.4	-24 54	4 27 31	-12 15
29	9912.5	16 19.5	-21 26	21 19.0	-21 09	4 31 28	-11 54
30	9913.5	16 23.8	-21 36	22 15.1	-16 13	4 35 24	-11 33

SAULĖS IR MĖNULIO PUSIAUJINĖS KOORDINATĖS

Žvaigždinis laikas (S₀) 0 val. pasauliniu laiku

Gruodis

Mėn. diena	Julijaus diena	Saulė		Mėnulis		S ₀ h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9914.5	16 28.1	-21 46	23 07.2	-10 33	4 39 21	-11 11
2	9915.5	16 32.5	-21 55	23 56.3	-04 30	4 43 17	-10 49
3	9916.5	16 36.8	-22 04	0 43.7	+01 38	4 47 14	-10 26
4	9917.5	16 41.1	-22 12	1 30.5	+07 36	4 51 10	-10 02
5	9918.5	16 45.5	-22 20	2 17.8	+13 08	4 55 07	-09 38
6	9919.5	16 49.8	-22 28	3 06.3	+18 03	4 59 03	-09 13
7	9920.5	16 54.2	-22 35	3 56.7	+22 06	5 03 00	-08 48
8	9921.5	16 58.6	-22 41	4 48.8	+25 07	5 06 57	-08 22
9	9922.5	17 02.9	-22 47	5 42.4	+26 55	5 10 53	-07 56
10	9923.5	17 07.3	-22 53	6 36.4	+27 26	5 14 50	-07 29
11	9924.5	17 11.7	-22 58	7 29.8	+26 39	5 18 46	-07 02
12	9925.5	17 16.1	-23 03	8 21.6	+24 41	5 22 43	-06 35
13	9926.5	17 20.5	-23 08	9 11.2	+21 38	5 26 39	-06 07
14	9927.5	17 24.9	-23 12	9 58.7	+17 42	5 30 36	-05 38
15	9928.5	17 29.4	-23 15	10 44.3	+13 03	5 34 32	-05 10
16	9929.5	17 33.8	-23 18	11 28.9	+07 50	5 38 29	-04 41
17	9930.5	17 38.2	-23 21	12 13.3	+02 12	5 42 26	-04 12
18	9931.5	17 42.7	-23 23	12 58.6	-03 40	5 46 22	-03 42
19	9932.5	17 47.1	-23 24	13 46.0	-09 34	5 50 19	-03 13
20	9933.5	17 51.5	-23 25	14 36.8	-15 14	5 54 15	-02 43
21	9934.5	17 56.0	-23 26	15 32.2	-20 19	5 58 12	-02 13
22	9935.5	18 00.4	-23 26	16 32.7	-24 20	6 02 08	-01 43
23	9936.5	18 04.8	-23 26	17 38.0	-26 49	6 06 05	-01 14
24	9937.5	18 09.3	-23 25	18 45.9	-27 22	6 10 01	-00 44
25	9938.5	18 13.7	-23 24	19 53.5	-25 51	6 13 58	-00 14
26	9939.5	18 18.2	-23 22	20 57.9	-22 30	6 17 55	+00 16
27	9940.5	18 22.6	-23 20	21 57.6	-17 44	6 21 51	+00 46
28	9941.5	18 27.0	-23 18	22 52.6	-12 02	6 25 48	+01 15
29	9942.5	18 31.5	-23 14	23 43.7	-05 54	6 29 44	+01 45
30	9943.5	18 35.9	-23 11	0 32.2	+00 21	6 33 41	+02 14
31	9944.5	18 40.3	-23 07	1 19.5	+06 24	6 37 37	+02 43