

SAULĖS IR MĖNULIO PUSIAUJINĖS KOORDINATĖS 2017 METAIS

ALGIRDAS KAZLAUSKAS

Lentelės antrajame stulpelyje pateikiamos Julijaus dienos, skaičiuojamos nuo 4713 metų pr. Kr. sausio 1 d. vidurdienio. Pvz., 2016 m. sausio 1 d. 0 val. pasauliniu arba 2 val. Lietuvos laiku yra 2 457 388.5 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, pridama dar viena valanda.

7–ame stulpelyje pateikiamas žvaigždinis laikas Grinvičo vidurnaktį (0 val. pasauliniu laiku). Vietinis žvaigždinis 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 (S_0) 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	7754.5	18 46.8	-23 00	20 54.9	-15 20	6 43 21	+03 26
2	7755.5	18 51.2	-22 55	21 46.5	-12 29	6 47 18	+03 55
3	7756.5	18 55.6	-22 49	22 37.6	-08 58	6 51 14	+04 22
4	7757.5	19 00.0	-22 43	23 28.6	-04 58	6 55 11	+04 50
5	7758.5	19 04.4	-22 37	0 20.0	-00 38	6 59 07	+05 17
6	7759.5	19 08.8	-22 30	1 12.2	+03 49	7 03 04	+05 44
7	7760.5	19 13.2	-22 22	2 06.0	+08 09	7 07 00	+06 10
8	7761.5	19 17.5	-22 14	3 02.0	+12 05	7 10 57	+06 35
9	7762.5	19 21.9	-22 06	4 00.4	+15 22	7 14 54	+07 00
10	7763.5	19 26.2	-21 57	5 01.0	+17 41	7 18 50	+07 25
11	7764.5	19 30.6	-21 48	6 03.0	+18 50	7 22 47	+07 49
12	7765.5	19 34.9	-21 39	7 05.1	+18 42	7 26 43	+08 12
13	7766.5	19 39.2	-21 29	8 05.8	+17 20	7 30 40	+08 35
14	7767.5	19 43.5	-21 18	9 04.0	+14 55	7 34 36	+08 57
15	7768.5	19 47.8	-21 07	9 59.2	+11 43	7 38 33	+09 18
16	7769.5	19 52.1	-20 56	10 51.4	+08 00	7 42 29	+09 39
17	7770.5	19 56.4	-20 45	11 41.0	+04 01	7 46 26	+09 59
18	7771.5	20 00.7	-20 33	12 28.7	-00 02	7 50 23	+10 19
19	7772.5	20 04.9	-20 20	13 15.2	-03 59	7 54 19	+10 37
20	7773.5	20 09.2	-20 07	14 01.3	-07 41	7 58 16	+10 55
21	7774.5	20 13.4	-19 54	14 47.5	-11 03	8 02 12	+11 13
22	7775.5	20 17.6	-19 41	15 34.4	-13 57	8 06 09	+11 29
23	7776.5	20 21.8	-19 27	16 22.5	-16 16	8 10 05	+11 45
24	7777.5	20 26.0	-19 13	17 11.9	-17 55	8 14 02	+12 00
25	7778.5	20 30.2	-18 58	18 02.7	-18 47	8 17 58	+12 14
26	7779.5	20 34.4	-18 43	18 54.6	-18 47	8 21 55	+12 28
27	7780.5	20 38.5	-18 28	19 47.2	-17 53	8 25 52	+12 41
28	7781.5	20 42.7	-18 12	20 40.0	-16 03	8 29 48	+12 52
29	7782.5	20 46.8	-17 56	21 32.6	-13 24	8 33 45	+13 03
30	7783.5	20 50.9	-17 40	22 24.9	-10 00	8 37 41	+13 14
31	7784.5	20 55.0	-17 23	23 16.7	-06 04	8 41 38	+13 23

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Vasaris

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	7785.5	20 59.1	-17 06	0 08.5	-01 45	8 45 34	+13 32
2	7786.5	21 03.2	-16 49	1 00.7	+02 41	8 49 31	+13 40
3	7787.5	21 07.2	-16 32	1 53.7	+07 02	8 53 27	+13 46
4	7788.5	21 11.3	-16 14	2 48.2	+11 02	8 57 24	+13 53
5	7789.5	21 15.3	-15 56	3 44.5	+14 26	9 01 21	+13 58
6	7790.5	21 19.3	-15 37	4 42.7	+16 59	9 05 17	+14 02
7	7791.5	21 23.3	-15 19	5 42.3	+18 30	9 09 14	+14 06
8	7792.5	21 27.3	-15 00	6 42.6	+18 50	9 13 10	+14 09
9	7793.5	21 31.3	-14 41	7 42.4	+17 59	9 17 07	+14 11
10	7794.5	21 35.2	-14 21	8 40.6	+16 01	9 21 03	+14 12
11	7795.5	21 39.2	-14 02	9 36.7	+13 09	9 25 00	+14 12
12	7796.5	21 43.1	-13 42	10 30.2	+09 38	9 28 56	+14 12
13	7797.5	21 47.1	-13 22	11 21.3	+05 43	9 32 53	+14 11
14	7798.5	21 51.0	-13 02	12 10.4	+01 37	9 36 50	+14 09
15	7799.5	21 54.9	-12 41	12 58.0	-02 26	9 40 46	+14 06
16	7800.5	21 58.8	-12 20	13 44.9	-06 18	9 44 43	+14 03
17	7801.5	22 02.6	-11 59	14 31.5	-09 50	9 48 39	+13 59
18	7802.5	22 06.5	-11 38	15 18.4	-12 56	9 52 36	+13 55
19	7803.5	22 10.4	-11 17	16 06.1	-15 29	9 56 32	+13 49
20	7804.5	22 14.2	-10 56	16 54.9	-17 22	10 00 29	+13 43
21	7805.5	22 18.0	-10 34	17 44.9	-18 31	10 04 25	+13 37
22	7806.5	22 21.9	-10 12	18 36.0	-18 50	10 08 22	+13 30
23	7807.5	22 25.7	-09 50	19 28.1	-18 16	10 12 19	+13 22
24	7808.5	22 29.5	-09 28	20 20.9	-16 47	10 16 15	+13 13
25	7809.5	22 33.3	-09 06	21 13.9	-14 25	10 20 12	+13 04
26	7810.5	22 37.0	-08 44	22 07.0	-11 14	10 24 08	+12 55
27	7811.5	22 40.8	-08 21	23 00.0	-07 24	10 28 05	+12 44
28	7812.5	22 44.6	-07 58	23 53.0	-03 05	10 32 01	+12 34

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 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	7813.5	22 48.3	-07 36	0 46.3	+01 27	10 35 58	+12 23
2	7814.5	22 52.1	-07 13	1 40.3	+05 57	10 39 54	+12 11
3	7815.5	22 55.8	-06 50	2 35.4	+10 07	10 43 51	+11 59
4	7816.5	22 59.5	-06 27	3 31.7	+13 43	10 47 48	+11 46
5	7817.5	23 03.3	-06 04	4 29.4	+16 29	10 51 44	+11 33
6	7818.5	23 07.0	-05 41	5 28.2	+18 14	10 55 41	+11 19
7	7819.5	23 10.7	-05 17	6 27.3	+18 52	10 59 37	+11 05
8	7820.5	23 14.4	-04 54	7 25.9	+18 20	11 03 34	+10 50
9	7821.5	23 18.1	-04 30	8 23.2	+16 43	11 07 30	+10 35
10	7822.5	23 21.8	-04 07	9 18.7	+14 10	11 11 27	+10 20
11	7823.5	23 25.5	-03 43	10 12.0	+10 54	11 15 23	+10 05
12	7824.5	23 29.1	-03 20	11 03.2	+07 08	11 19 20	+09 49
13	7825.5	23 32.8	-02 56	11 52.6	+03 06	11 23 17	+09 32
14	7826.5	23 36.5	-02 33	12 40.8	-01 00	11 27 13	+09 16
15	7827.5	23 40.1	-02 09	13 28.1	-04 59	11 31 10	+08 59
16	7828.5	23 43.8	-01 45	14 15.1	-08 41	11 35 06	+08 42
17	7829.5	23 47.5	-01 22	15 02.2	-11 58	11 39 03	+08 25
18	7830.5	23 51.1	-00 58	15 49.8	-14 44	11 42 59	+08 08
19	7831.5	23 54.8	-00 34	16 38.2	-16 52	11 46 56	+07 50
20	7832.5	23 58.4	-00 10	17 27.6	-18 17	11 50 52	+07 32
21	7833.5	0 02.1	+00 13	18 17.8	-18 53	11 54 49	+07 15
22	7834.5	0 05.7	+00 37	19 09.0	-18 39	11 58 46	+06 57
23	7835.5	0 09.3	+01 01	20 00.8	-17 31	12 02 42	+06 39
24	7836.5	0 13.0	+01 24	20 53.1	-15 30	12 06 39	+06 21
25	7837.5	0 16.6	+01 48	21 45.7	-12 38	12 10 35	+06 03
26	7838.5	0 20.3	+02 12	22 38.6	-09 02	12 14 32	+05 45
27	7839.5	0 23.9	+02 35	23 31.9	-04 50	12 18 28	+05 27
28	7840.5	0 27.5	+02 59	0 25.9	-00 16	12 22 25	+05 09
29	7841.5	0 31.2	+03 22	1 20.9	+04 24	12 26 21	+04 51
30	7842.5	0 34.8	+03 45	2 17.2	+08 53	12 30 18	+04 33
31	7843.5	0 38.5	+04 09	3 14.9	+12 49	12 34 15	+04 15

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Balandis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	7844.5	0 42.1	+04 32	4 13.9	+15 57	12 38 11	+03 57
2	7845.5	0 45.8	+04 55	5 13.8	+18 02	12 42 08	+03 39
3	7846.5	0 49.4	+05 18	6 13.8	+18 57	12 46 04	+03 22
4	7847.5	0 53.1	+05 41	7 12.9	+18 40	12 50 01	+03 04
5	7848.5	0 56.7	+06 04	8 10.4	+17 17	12 53 57	+02 47
6	7849.5	1 00.4	+06 26	9 05.7	+14 57	12 57 54	+02 29
7	7850.5	1 04.0	+06 49	9 58.7	+11 52	13 01 50	+02 12
8	7851.5	1 07.7	+07 12	10 49.5	+08 15	13 05 47	+01 56
9	7852.5	1 11.4	+07 34	11 38.6	+04 18	13 09 44	+01 39
10	7853.5	1 15.0	+07 56	12 26.4	+00 14	13 13 40	+01 23
11	7854.5	1 18.7	+08 18	13 13.4	-03 48	13 17 37	+01 07
12	7855.5	1 22.4	+08 40	14 00.3	-07 37	13 21 33	+00 51
13	7856.5	1 26.1	+09 02	14 47.3	-11 05	13 25 30	+00 35
14	7857.5	1 29.8	+09 24	15 34.8	-14 03	13 29 26	+00 20
15	7858.5	1 33.5	+09 45	16 23.0	-16 25	13 33 23	+00 05
16	7859.5	1 37.2	+10 07	17 12.1	-18 05	13 37 19	-00 09
17	7860.5	1 40.9	+10 28	18 01.9	-18 58	13 41 16	-00 23
18	7861.5	1 44.6	+10 49	18 52.3	-19 01	13 45 13	-00 37
19	7862.5	1 48.3	+11 10	19 43.2	-18 11	13 49 09	-00 50
20	7863.5	1 52.0	+11 30	20 34.3	-16 30	13 53 06	-01 03
21	7864.5	1 55.8	+11 51	21 25.7	-13 59	13 57 02	-01 15
22	7865.5	1 59.5	+12 11	22 17.4	-10 42	14 00 59	-01 27
23	7866.5	2 03.3	+12 31	23 09.6	-06 46	14 04 55	-01 38
24	7867.5	2 07.0	+12 51	0 02.6	-02 20	14 08 52	-01 49
25	7868.5	2 10.8	+13 11	0 57.0	+02 22	14 12 48	-01 60
26	7869.5	2 14.6	+13 30	1 53.1	+07 03	14 16 45	-02 10
27	7870.5	2 18.4	+13 49	2 51.3	+11 23	14 20 42	-02 19
28	7871.5	2 22.1	+14 08	3 51.5	+15 00	14 24 38	-02 29
29	7872.5	2 26.0	+14 27	4 53.1	+17 36	14 28 35	-02 37
30	7873.5	2 29.8	+14 46	5 55.3	+18 59	14 32 31	-02 45

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 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	7874.5	2 33.6	+15 04	6 56.7	+19 04	14 36 28	-02 53
2	7875.5	2 37.4	+15 22	7 56.2	+17 56	14 40 24	-02 59
3	7876.5	2 41.2	+15 40	8 53.1	+15 47	14 44 21	-03 06
4	7877.5	2 45.1	+15 57	9 47.1	+12 49	14 48 17	-03 12
5	7878.5	2 48.9	+16 15	10 38.4	+09 17	14 52 14	-03 17
6	7879.5	2 52.8	+16 32	11 27.5	+05 23	14 56 11	-03 22
7	7880.5	2 56.7	+16 48	12 15.1	+01 19	15 00 07	-03 26
8	7881.5	3 00.5	+17 05	13 01.7	-02 44	15 04 04	-03 30
9	7882.5	3 04.4	+17 21	13 48.1	-06 37	15 08 00	-03 33
10	7883.5	3 08.3	+17 37	14 34.6	-10 13	15 11 57	-03 36
11	7884.5	3 12.2	+17 52	15 21.8	-13 22	15 15 53	-03 38
12	7885.5	3 16.2	+18 08	16 09.7	-15 57	15 19 50	-03 39
13	7886.5	3 20.1	+18 22	16 58.6	-17 51	15 23 46	-03 40
14	7887.5	3 24.0	+18 37	17 48.2	-18 59	15 27 43	-03 41
15	7888.5	3 28.0	+18 51	18 38.5	-19 18	15 31 40	-03 40
16	7889.5	3 31.9	+19 05	19 29.0	-18 44	15 35 36	-03 40
17	7890.5	3 35.9	+19 19	20 19.5	-17 20	15 39 33	-03 38
18	7891.5	3 39.9	+19 32	21 10.0	-15 06	15 43 29	-03 36
19	7892.5	3 43.9	+19 46	22 00.3	-12 07	15 47 26	-03 34
20	7893.5	3 47.9	+19 58	22 50.9	-08 29	15 51 22	-03 30
21	7894.5	3 51.9	+20 11	23 42.1	-04 18	15 55 19	-03 27
22	7895.5	3 55.9	+20 23	0 34.5	+00 15	15 59 15	-03 23
23	7896.5	3 59.9	+20 34	1 28.6	+04 56	16 03 12	-03 18
24	7897.5	4 03.9	+20 46	2 25.1	+09 27	16 07 09	-03 12
25	7898.5	4 08.0	+20 56	3 24.4	+13 30	16 11 05	-03 07
26	7899.5	4 12.0	+21 07	4 26.1	+16 41	16 15 02	-03 00
27	7900.5	4 16.1	+21 17	5 29.6	+18 42	16 18 58	-02 54
28	7901.5	4 20.1	+21 27	6 33.3	+19 22	16 22 55	-02 46
29	7902.5	4 24.2	+21 37	7 35.8	+18 41	16 26 51	-02 39
30	7903.5	4 28.3	+21 46	8 35.6	+16 48	16 30 48	-02 30
31	7904.5	4 32.4	+21 54	9 32.2	+13 59	16 34 44	-02 22

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 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	7905.5	4 36.5	+22 03	10 25.5	+10 29	16 38 41	-02 13
2	7906.5	4 40.6	+22 11	11 15.9	+06 36	16 42 38	-02 04
3	7907.5	4 44.7	+22 18	12 04.2	+02 30	16 46 34	-01 54
4	7908.5	4 48.8	+22 26	12 51.0	-01 36	16 50 31	-01 44
5	7909.5	4 52.9	+22 32	13 37.3	-05 35	16 54 27	-01 33
6	7910.5	4 57.0	+22 39	14 23.4	-09 16	16 58 24	-01 23
7	7911.5	5 01.1	+22 45	15 10.1	-12 34	17 02 20	-01 12
8	7912.5	5 05.3	+22 50	15 57.7	-15 21	17 06 17	-01 01
9	7913.5	5 09.4	+22 56	16 46.2	-17 28	17 10 13	-00 49
10	7914.5	5 13.5	+23 00	17 35.7	-18 51	17 14 10	-00 37
11	7915.5	5 17.7	+23 05	18 26.0	-19 25	17 18 07	-00 25
12	7916.5	5 21.8	+23 09	19 16.6	-19 07	17 22 03	-00 13
13	7917.5	5 26.0	+23 12	20 07.2	-17 57	17 26 00	-00 01
14	7918.5	5 30.1	+23 15	20 57.6	-15 57	17 29 56	+00 12
15	7919.5	5 34.3	+23 18	21 47.5	-13 12	17 33 53	+00 24
16	7920.5	5 38.4	+23 21	22 37.2	-09 47	17 37 49	+00 37
17	7921.5	5 42.6	+23 22	23 27.0	-05 50	17 41 46	+00 50
18	7922.5	5 46.7	+23 24	0 17.4	-01 30	17 45 42	+01 03
19	7923.5	5 50.9	+23 25	1 09.1	+03 03	17 49 39	+01 16
20	7924.5	5 55.1	+23 26	2 02.9	+07 34	17 53 36	+01 29
21	7925.5	5 59.2	+23 26	2 59.4	+11 46	17 57 32	+01 43
22	7926.5	6 03.4	+23 26	3 58.9	+15 21	18 01 29	+01 56
23	7927.5	6 07.6	+23 25	5 01.1	+17 56	18 05 25	+02 09
24	7928.5	6 11.7	+23 24	6 05.0	+19 17	18 09 22	+02 22
25	7929.5	6 15.9	+23 23	7 09.1	+19 14	18 13 18	+02 35
26	7930.5	6 20.0	+23 21	8 11.6	+17 51	18 17 15	+02 47
27	7931.5	6 24.2	+23 19	9 11.2	+15 20	18 21 11	+03 00
28	7932.5	6 28.3	+23 16	10 07.4	+11 59	18 25 08	+03 13
29	7933.5	6 32.5	+23 13	11 00.2	+08 05	18 29 05	+03 25
30	7934.5	6 36.6	+23 10	11 50.4	+03 56	18 33 01	+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	7935.5	6 40.8	+23 06	12 38.5	-00 16	18 36 58	+03 49
2	7936.5	6 44.9	+23 02	13 25.4	-04 21	18 40 54	+04 00
3	7937.5	6 49.0	+22 57	14 11.8	-08 11	18 44 51	+04 11
4	7938.5	6 53.1	+22 52	14 58.3	-11 38	18 48 47	+04 22
5	7939.5	6 57.3	+22 47	15 45.5	-14 34	18 52 44	+04 33
6	7940.5	7 01.4	+22 41	16 33.7	-16 55	18 56 40	+04 43
7	7941.5	7 05.5	+22 35	17 22.9	-18 32	19 00 37	+04 53
8	7942.5	7 09.6	+22 28	18 13.1	-19 21	19 04 34	+05 02
9	7943.5	7 13.7	+22 21	19 03.9	-19 18	19 08 30	+05 11
10	7944.5	7 17.8	+22 14	19 54.9	-18 23	19 12 27	+05 20
11	7945.5	7 21.8	+22 06	20 45.7	-16 36	19 16 23	+05 28
12	7946.5	7 25.9	+21 58	21 36.1	-14 01	19 20 20	+05 36
13	7947.5	7 30.0	+21 49	22 25.9	-10 46	19 24 16	+05 43
14	7948.5	7 34.0	+21 41	23 15.4	-06 58	19 28 13	+05 50
15	7949.5	7 38.1	+21 31	0 05.1	-02 46	19 32 09	+05 56
16	7950.5	7 42.1	+21 22	0 55.4	+01 39	19 36 06	+06 02
17	7951.5	7 46.2	+21 12	1 47.2	+06 06	19 40 03	+06 07
18	7952.5	7 50.2	+21 01	2 41.0	+10 19	19 43 59	+06 12
19	7953.5	7 54.2	+20 51	3 37.5	+14 02	19 47 56	+06 17
20	7954.5	7 58.2	+20 40	4 36.8	+16 59	19 51 52	+06 20
21	7955.5	8 02.2	+20 28	5 38.6	+18 50	19 55 49	+06 24
22	7956.5	8 06.2	+20 16	6 41.7	+19 25	19 59 45	+06 27
23	7957.5	8 10.2	+20 04	7 44.6	+18 38	20 03 42	+06 29
24	7958.5	8 14.1	+19 52	8 45.9	+16 36	20 07 38	+06 30
25	7959.5	8 18.1	+19 39	9 44.4	+13 33	20 11 35	+06 31
26	7960.5	8 22.0	+19 26	10 39.7	+09 47	20 15 32	+06 32
27	7961.5	8 26.0	+19 13	11 32.1	+05 37	20 19 28	+06 31
28	7962.5	8 29.9	+18 59	12 22.1	+01 19	20 23 25	+06 31
29	7963.5	8 33.8	+18 45	13 10.4	-02 55	20 27 21	+06 29
30	7964.5	8 37.7	+18 31	13 57.6	-06 55	20 31 18	+06 27
31	7965.5	8 41.6	+18 16	14 44.6	-10 32	20 35 14	+06 24

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 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	7966.5	8 45.5	+18 01	15 31.9	-13 40	20 39 11	+06 21
2	7967.5	8 49.4	+17 46	16 19.9	-16 13	20 43 07	+06 17
3	7968.5	8 53.3	+17 30	17 8.8	-18 04	20 47 04	+06 13
4	7969.5	8 57.1	+17 14	17 58.7	-19 08	20 51 01	+06 07
5	7970.5	9 01.0	+16 58	18 49.4	-19 22	20 54 57	+06 02
6	7971.5	9 04.8	+16 42	19 40.6	-18 43	20 58 54	+05 55
7	7972.5	9 08.6	+16 25	20 31.8	-17 10	21 02 50	+05 48
8	7973.5	9 12.4	+16 08	21 22.8	-14 48	21 06 47	+05 41
9	7974.5	9 16.3	+15 51	22 13.4	-11 41	21 10 43	+05 32
10	7975.5	9 20.0	+15 34	23 3.6	-07 58	21 14 40	+05 24
11	7976.5	9 23.8	+15 16	23 53.7	-03 49	21 18 36	+05 14
12	7977.5	9 27.6	+14 58	0 44.0	+00 35	21 22 33	+05 04
13	7978.5	9 31.4	+14 40	1 35.2	+05 01	21 26 30	+04 54
14	7979.5	9 35.1	+14 22	2 27.9	+09 16	21 30 26	+04 43
15	7980.5	9 38.9	+14 03	3 22.6	+13 04	21 34 23	+04 31
16	7981.5	9 42.6	+13 44	4 19.7	+16 11	21 38 19	+04 19
17	7982.5	9 46.4	+13 25	5 18.9	+18 20	21 42 16	+04 07
18	7983.5	9 50.1	+13 06	6 19.8	+19 20	21 46 12	+03 54
19	7984.5	9 53.8	+12 47	7 21.3	+19 03	21 50 09	+03 41
20	7985.5	9 57.5	+12 27	8 22.0	+17 31	21 54 05	+03 27
21	7986.5	10 01.2	+12 07	9 20.9	+14 54	21 58 02	+03 12
22	7987.5	10 04.9	+11 47	10 17.3	+11 25	22 01 59	+02 57
23	7988.5	10 08.6	+11 27	11 11.2	+07 22	22 05 55	+02 42
24	7989.5	10 12.3	+11 06	12 2.6	+03 02	22 09 52	+02 26
25	7990.5	10 16.0	+10 46	12 52.3	-01 19	22 13 48	+02 10
26	7991.5	10 19.6	+10 25	13 40.7	-05 29	22 17 45	+01 53
27	7992.5	10 23.3	+10 04	14 28.5	-09 19	22 21 41	+01 36
28	7993.5	10 26.9	+09 43	15 16.2	-12 41	22 25 38	+01 19
29	7994.5	10 30.6	+09 22	16 4.3	-15 27	22 29 34	+01 01
30	7995.5	10 34.2	+09 00	16 53.1	-17 33	22 33 31	+00 43
31	7996.5	10 37.9	+08 39	17 42.6	-18 53	22 37 28	+00 24

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Rugsējis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
245....							
1	7997.5	10 41.5	+08 17	18 32.9	-19 23	22 41 24	+00 05
2	7998.5	10 45.1	+07 55	19 23.9	-19 01	22 45 21	-00 14
3	7999.5	10 48.7	+07 33	20 15.1	-17 46	22 49 17	-00 33
4	8000.5	10 52.3	+07 11	21 06.3	-15 39	22 53 14	-00 53
5	8001.5	10 55.9	+06 49	21 57.4	-12 44	22 57 10	-01 13
6	8002.5	10 59.6	+06 27	22 48.4	-09 08	23 01 07	-01 33
7	8003.5	11 03.2	+06 04	23 39.3	-05 01	23 05 03	-01 54
8	8004.5	11 06.8	+05 42	0 30.4	-00 35	23 09 00	-02 14
9	8005.5	11 10.3	+05 19	1 22.3	+03 58	23 12 57	-02 35
10	8006.5	11 13.9	+04 57	2 15.4	+08 21	23 16 53	-02 56
11	8007.5	11 17.5	+04 34	3 10.0	+12 19	23 20 50	-03 17
12	8008.5	11 21.1	+04 11	4 06.6	+15 37	23 24 46	-03 38
13	8009.5	11 24.7	+03 48	5 04.8	+17 59	23 28 43	-03 59
14	8010.5	11 28.3	+03 25	6 04.4	+19 15	23 32 39	-04 21
15	8011.5	11 31.9	+03 02	7 04.5	+19 18	23 36 36	-04 42
16	8012.5	11 35.5	+02 39	8 04.0	+18 09	23 40 32	-05 03
17	8013.5	11 39.1	+02 16	9 02.0	+15 53	23 44 29	-05 25
18	8014.5	11 42.6	+01 53	9 58.0	+12 43	23 48 26	-05 46
19	8015.5	11 46.2	+01 29	10 51.8	+08 53	23 52 22	-06 07
20	8016.5	11 49.8	+01 06	11 43.6	+04 39	23 56 19	-06 29
21	8017.5	11 53.4	+00 43	12 33.7	+00 16	0 00 15	-06 50
22	8018.5	11 57.0	+00 20	13 22.7	-04 02	0 04 12	-07 11
23	8019.5	12 00.6	-00 04	14 11.0	-08 03	0 08 08	-07 32
24	8020.5	12 04.2	-00 27	14 59.2	-11 39	0 12 05	-07 53
25	8021.5	12 07.8	-00 51	15 47.6	-14 41	0 16 01	-08 14
26	8022.5	12 11.4	-01 14	16 36.4	-17 02	0 19 58	-08 34
27	8023.5	12 15.0	-01 37	17 25.9	-18 39	0 23 55	-08 55
28	8024.5	12 18.6	-02 01	18 15.8	-19 26	0 27 51	-09 15
29	8025.5	12 22.2	-02 24	19 06.3	-19 22	0 31 48	-09 35
30	8026.5	12 25.8	-02 47	19 57.0	-18 25	0 35 44	-09 55

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	8027.5	12 29.4	-03 11	20 47.8	-16 37	0 39 41	-10 15
2	8028.5	12 33.0	-03 34	21 38.6	-13 58	0 43 37	-10 34
3	8029.5	12 36.7	-03 57	22 29.4	-10 36	0 47 34	-10 53
4	8030.5	12 40.3	-04 20	23 20.5	-06 37	0 51 30	-11 12
5	8031.5	12 43.9	-04 43	0 12.1	-02 11	0 55 27	-11 30
6	8032.5	12 47.6	-05 06	1 04.6	+02 28	0 59 24	-11 48
7	8033.5	12 51.2	-05 29	1 58.4	+07 05	1 03 20	-12 06
8	8034.5	12 54.9	-05 52	2 54.0	+11 21	1 07 17	-12 23
9	8035.5	12 58.5	-06 15	3 51.4	+14 58	1 11 13	-12 40
10	8036.5	13 02.2	-06 38	4 50.6	+17 40	1 15 10	-12 56
11	8037.5	13 05.9	-07 00	5 50.8	+19 15	1 19 06	-13 12
12	8038.5	13 09.6	-07 23	6 51.2	+19 35	1 23 03	-13 27
13	8039.5	13 13.3	-07 46	7 50.6	+18 41	1 26 59	-13 42
14	8040.5	13 17.0	-08 08	8 48.4	+16 40	1 30 56	-13 56
15	8041.5	13 20.7	-08 30	9 43.9	+13 44	1 34 52	-14 10
16	8042.5	13 24.4	-08 52	10 37.1	+10 06	1 38 49	-14 23
17	8043.5	13 28.2	-09 14	11 28.4	+06 00	1 42 46	-14 35
18	8044.5	13 31.9	-09 36	12 18.0	+01 40	1 46 42	-14 47
19	8045.5	13 35.7	-09 58	13 06.7	-02 40	1 50 39	-14 59
20	8046.5	13 39.4	-10 20	13 54.9	-06 49	1 54 35	-15 09
21	8047.5	13 43.2	-10 41	14 43.0	-10 36	1 58 32	-15 19
22	8048.5	13 47.0	-11 02	15 31.4	-13 52	2 02 28	-15 29
23	8049.5	13 50.8	-11 23	16 20.2	-16 31	2 06 25	-15 37
24	8050.5	13 54.6	-11 44	17 09.7	-18 24	2 10 21	-15 45
25	8051.5	13 58.4	-12 05	17 59.5	-19 29	2 14 18	-15 53
26	8052.5	14 02.2	-12 26	18 49.7	-19 43	2 18 15	-15 59
27	8053.5	14 06.1	-12 46	19 39.9	-19 04	2 22 11	-16 05
28	8054.5	14 09.9	-13 06	20 30.1	-17 34	2 26 08	-16 11
29	8055.5	14 13.8	-13 26	21 20.0	-15 15	2 30 04	-16 15
30	8056.5	14 17.7	-13 46	22 09.9	-12 10	2 34 01	-16 19
31	8057.5	14 21.6	-14 06	23 00.0	-08 26	2 37 57	-16 22

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Lapkritis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
245....							
1	8058.5	14 25.5	-14 25	23 50.7	-04 11	2 41 54	-16 24
2	8059.5	14 29.4	-14 44	0 42.4	+00 26	2 45 50	-16 25
3	8060.5	14 33.3	-15 03	1 35.9	+05 10	2 49 47	-16 26
4	8061.5	14 37.3	-15 22	2 31.5	+09 44	2 53 44	-16 26
5	8062.5	14 41.2	-15 40	3 29.6	+13 48	2 57 40	-16 25
6	8063.5	14 45.2	-15 58	4 30.0	+17 01	3 01 37	-16 23
7	8064.5	14 49.2	-16 16	5 32.0	+19 05	3 05 33	-16 20
8	8065.5	14 53.2	-16 33	6 34.4	+19 50	3 09 30	-16 17
9	8066.5	14 57.2	-16 51	7 35.9	+19 16	3 13 26	-16 12
10	8067.5	15 01.3	-17 08	8 35.3	+17 29	3 17 23	-16 07
11	8068.5	15 05.3	-17 24	9 31.9	+14 42	3 21 19	-16 01
12	8069.5	15 09.4	-17 41	10 25.7	+11 10	3 25 16	-15 54
13	8070.5	15 13.4	-17 57	11 16.9	+07 10	3 29 13	-15 46
14	8071.5	15 17.5	-18 13	12 06.3	+02 53	3 33 09	-15 37
15	8072.5	15 21.6	-18 28	12 54.4	-01 27	3 37 06	-15 27
16	8073.5	15 25.7	-18 43	13 41.9	-05 39	3 41 02	-15 17
17	8074.5	15 29.9	-18 58	14 29.3	-09 34	3 44 59	-15 6
18	8075.5	15 34.0	-19 13	15 17.2	-13 01	3 48 55	-14 54
19	8076.5	15 38.2	-19 27	16 05.7	-15 54	3 52 52	-14 41
20	8077.5	15 42.3	-19 41	16 55.0	-18 04	3 56 48	-14 27
21	8078.5	15 46.5	-19 54	17 44.9	-19 26	4 00 45	-14 12
22	8079.5	15 50.7	-20 07	18 35.0	-19 57	4 04 42	-13 57
23	8080.5	15 54.9	-20 20	19 25.2	-19 36	4 08 38	-13 40
24	8081.5	15 59.2	-20 32	20 15.1	-18 22	4 12 35	-13 24
25	8082.5	16 03.4	-20 44	21 04.5	-16 20	4 16 31	-13 06
26	8083.5	16 07.7	-20 56	21 53.4	-13 33	4 20 28	-12 47
27	8084.5	16 11.9	-21 07	22 42.2	-10 07	4 24 24	-12 28
28	8085.5	16 16.2	-21 18	23 31.2	-06 07	4 28 21	-12 08
29	8086.5	16 20.5	-21 28	0 21.1	-01 42	4 32 17	-11 48
30	8087.5	16 24.8	-21 38	1 12.4	+02 57	4 36 14	-11 27

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Gruodis

Mēn. diena	Julijaus diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	8088.5	16 29.1	-21 48	2 06.1	+07 36	4 40 11	-11 05
2	8089.5	16 33.4	-21 57	3 02.6	+11 58	4 44 07	-10 42
3	8090.5	16 37.7	-22 05	4 02.3	+15 42	4 48 04	-10 19
4	8091.5	16 42.1	-22 14	5 04.8	+18 25	4 52 00	-09 55
5	8092.5	16 46.4	-22 21	6 09.1	+19 50	4 55 57	-09 31
6	8093.5	16 50.8	-22 29	7 13.4	+19 49	4 59 53	-09 06
7	8094.5	16 55.1	-22 36	8 16.0	+18 26	5 03 50	-08 41
8	8095.5	16 59.5	-22 42	9 15.7	+15 52	5 07 46	-08 15
9	8096.5	17 03.9	-22 49	10 11.9	+12 26	5 11 43	-07 48
10	8097.5	17 08.3	-22 54	11 04.9	+08 25	5 15 40	-07 21
11	8098.5	17 12.7	-22 59	11 55.3	+04 07	5 19 36	-06 54
12	8099.5	17 17.1	-23 04	12 43.7	-00 15	5 23 33	-06 26
13	8100.5	17 21.5	-23 08	13 31.1	-04 31	5 27 29	-05 58
14	8101.5	17 25.9	-23 12	14 18.2	-08 31	5 31 26	-05 30
15	8102.5	17 30.3	-23 16	15 05.4	-12 07	5 35 22	-05 01
16	8103.5	17 34.8	-23 18	15 53.3	-15 10	5 39 19	-04 32
17	8104.5	17 39.2	-23 21	16 42.1	-17 34	5 43 15	-04 03
18	8105.5	17 43.6	-23 23	17 31.7	-19 12	5 47 12	-03 33
19	8106.5	17 48.1	-23 24	18 21.8	-20 00	5 51 09	-03 04
20	8107.5	17 52.5	-23 25	19 12.2	-19 54	5 55 05	-02 34
21	8108.5	17 56.9	-23 26	20 02.3	-18 56	5 59 02	-02 04
22	8109.5	18 01.4	-23 26	20 51.8	-17 08	6 02 58	-01 34
23	8110.5	18 05.8	-23 26	21 40.6	-14 34	6 06 55	-01 04
24	8111.5	18 10.3	-23 25	22 28.8	-11 21	6 10 51	-00 34
25	8112.5	18 14.7	-23 24	23 16.7	-07 36	6 14 48	-00 05
26	8113.5	18 19.1	-23 22	0 4.8	-03 25	6 18 44	+00 25
27	8114.5	18 23.6	-23 19	0 53.9	+01 02	6 22 41	+00 55
28	8115.5	18 28.0	-23 17	1 44.7	+05 35	6 26 38	+01 24
29	8116.5	18 32.4	-23 14	2 38.1	+10 00	6 30 34	+01 53
30	8117.5	18 36.9	-23 10	3 34.7	+13 59	6 34 31	+02 22
31	8118.5	18 41.3	-23 06	4 34.8	+17 12	6 38 27	+02 51