

SAULĖS IR MĖNULIO PUSIAUJINĖS KOORDINATĖS 2018 METAIS

ALGIRDAS KAZLAUSKAS

Lentelės antrajame stulpelyje pateikiamos Julijaus dienos, skaičiuojamos nuo 4713 metų pr. Kr. sausio 1 d. vidurdienio. Pvz., 2018 m. sausio 1 d. 0 val. pasauliniu arba 2 val. Lietuvos laiku yra 2 458 119.5 Julijaus dienos. Pusias dienu 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 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	Julija diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	8119.5	18 45.7	-23 01	5 38.0	+19 19	6 42 24	+03 20
2	8120.5	18 50.1	-22 56	6 42.9	+20 03	6 46 20	+03 48
3	8121.5	18 54.5	-22 51	7 47.8	+19 19	6 50 17	+04 15
4	8122.5	18 58.9	-22 45	8 50.8	+17 13	6 54 13	+04 43
5	8123.5	19 03.3	-22 38	9 50.6	+14 01	6 58 10	+05 10
6	8124.5	19 07.7	-22 31	10 46.9	+10 03	7 02 07	+05 37
7	8125.5	19 12.1	-22 24	11 39.9	+05 41	7 06 03	+06 03
8	8126.5	19 16.5	-22 16	12 30.3	+01 11	7 10 00	+06 28
9	8127.5	19 20.8	-22 08	13 18.9	-03 14	7 13 56	+06 54
10	8128.5	19 25.2	-22 60	14 06.5	-07 23	7 17 53	+07 18
11	8129.5	19 29.5	-21 50	14 53.9	-11 08	7 21 49	+07 43
12	8130.5	19 33.9	-21 41	15 41.5	-14 21	7 25 46	+08 06
13	8131.5	19 38.2	-21 31	16 29.9	-16 57	7 29 42	+08 29
14	8132.5	19 42.5	-21 21	17 19.0	-18 48	7 33 39	+08 52
15	8133.5	19 46.8	-21 10	18 08.9	-19 50	7 37 36	+09 13
16	8134.5	19 51.1	-20 59	18 59.3	-20 00	7 41 32	+09 35
17	8135.5	19 55.4	-20 47	19 49.6	-19 17	7 45 29	+09 55
18	8136.5	19 59.7	-20 36	20 39.6	-17 42	7 49 25	+10 15
19	8137.5	20 03.9	-20 23	21 28.9	-15 20	7 53 22	+10 34
20	8138.5	20 08.2	-20 11	22 17.5	-12 16	7 57 18	+10 52
21	8139.5	20 12.4	-19 57	23 05.4	-08 38	8 01 15	+11 10
22	8140.5	20 16.6	-19 44	23 53.1	-04 35	8 05 11	+11 26
23	8141.5	20 20.8	-19 30	0 41.1	-00 15	8 09 08	+11 42
24	8142.5	20 25.0	-19 16	1 30.2	+04 11	8 13 05	+11 57
25	8143.5	20 29.2	-19 01	2 21.0	+08 31	8 17 01	+12 12
26	8144.5	20 33.4	-18 47	3 14.4	+12 33	8 20 58	+12 25
27	8145.5	20 37.5	-18 31	4 11.0	+15 59	8 24 54	+12 38
28	8146.5	20 41.7	-18 16	5 10.8	+18 31	8 28 51	+12 50
29	8147.5	20 45.8	-18 60	6 13.3	+19 52	8 32 47	+13 01
30	8148.5	20 49.9	-17 44	7 17.2	+19 50	8 36 44	+13 11
31	8149.5	20 54.0	-17 27	8 20.9	+18 23	8 40 40	+13 21

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	8150.5	20 58.1	-17 10	9 22.8	+15 40	8 44 37	+13 29
2	8151.5	21 02.2	-16 53	10 21.8	+11 58	8 48 34	+13 37
3	8152.5	21 06.2	-16 36	11 17.7	+07 38	8 52 30	+13 44
4	8153.5	21 10.3	-16 18	12 10.7	+03 01	8 56 27	+13 50
5	8154.5	21 14.3	-16 00	13 01.5	-01 36	9 00 23	+13 56
6	8155.5	21 18.3	-15 42	13 50.8	-05 59	9 04 20	+14 00
7	8156.5	21 22.3	-15 23	14 39.4	-09 58	9 08 16	+14 04
8	8157.5	21 26.3	-15 04	15 27.7	-13 26	9 12 13	+14 07
9	8158.5	21 30.3	-14 45	16 16.2	-16 15	9 16 09	+14 10
10	8159.5	21 34.3	-14 26	17 05.4	-18 20	9 20 06	+14 11
11	8160.5	21 38.2	-14 07	17 55.1	-19 36	9 24 03	+14 12
12	8161.5	21 42.2	-13 47	18 45.2	-20 02	9 27 59	+14 12
13	8162.5	21 46.1	-13 27	19 35.6	-19 33	9 31 56	+14 11
14	8163.5	21 50.0	-13 07	20 25.9	-18 13	9 35 52	+14 10
15	8164.5	21 53.9	-12 46	21 15.6	-16 02	9 39 49	+14 07
16	8165.5	21 57.8	-12 25	22 04.8	-13 07	9 43 45	+14 04
17	8166.5	22 01.7	-12 05	22 53.4	-09 35	9 47 42	+14 01
18	8167.5	22 05.6	-11 44	23 41.7	-05 35	9 51 38	+13 56
19	8168.5	22 09.4	-11 22	0 29.9	-01 15	9 55 35	+13 51
20	8169.5	22 13.3	-11 01	1 18.8	+03 11	9 59 32	+13 46
21	8170.5	22 17.1	-10 39	2 09.0	+07 33	10 03 28	+13 39
22	8171.5	22 20.9	-10 18	3 01.0	+11 38	10 07 25	+13 32
23	8172.5	22 24.7	-09 56	3 55.4	+15 10	10 11 21	+13 24
24	8173.5	22 28.6	-09 34	4 52.5	+17 54	10 15 18	+13 16
25	8174.5	22 32.3	-09 11	5 52.1	+19 35	10 19 14	+13 07
26	8175.5	22 36.1	-08 49	6 53.5	+20 02	10 23 11	+12 57
27	8176.5	22 39.9	-08 27	7 55.4	+19 09	10 27 07	+12 47
28	8177.5	22 43.7	-08 04	8 56.6	+16 59	10 31 04	+12 36

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	8178.5	22 47.4	-07 41	9 55.9	+13 43	10 35 01	+12 25
2	8179.5	22 51.2	-07 18	10 52.9	+09 37	10 38 57	+12 13
3	8180.5	22 54.9	-06 56	11 47.4	+05 03	10 42 54	+12 01
4	8181.5	22 58.6	-06 33	12 39.9	+00 19	10 46 50	+11 48
5	8182.5	23 02.4	-06 09	13 30.8	-04 18	10 50 47	+11 35
6	8183.5	23 06.1	-05 46	14 20.8	-08 34	10 54 43	+11 21
7	8184.5	23 09.8	-05 23	15 10.2	-12 20	10 58 40	+11 07
8	8185.5	23 13.5	-05 00	15 59.7	-15 27	11 02 36	+10 53
9	8186.5	23 17.2	-04 36	16 49.3	-17 50	11 06 33	+10 38
10	8187.5	23 20.9	-04 13	17 39.3	-19 23	11 10 30	+10 23
11	8188.5	23 24.6	-03 49	18 29.6	-20 05	11 14 26	+10 08
12	8189.5	23 28.2	-03 26	19 19.9	-19 53	11 18 23	+09 52
13	8190.5	23 31.9	-03 02	20 10.1	-18 48	11 22 19	+09 36
14	8191.5	23 35.6	-02 38	21 00.0	-16 51	11 26 16	+09 20
15	8192.5	23 39.2	-02 15	21 49.4	-14 08	11 30 12	+09 03
16	8193.5	23 42.9	-01 51	22 38.5	-10 44	11 34 09	+08 46
17	8194.5	23 46.6	-01 27	23 27.3	-06 47	11 38 05	+08 29
18	8195.5	23 50.2	-01 04	0 16.2	-02 27	11 42 02	+08 12
19	8196.5	23 53.9	-00 40	1 05.7	+02 05	11 45 59	+07 55
20	8197.5	23 57.5	-00 16	1 56.3	+06 35	11 49 55	+07 37
21	8198.5	0 01.2	+00 08	2 48.5	+10 50	11 53 52	+07 20
22	8199.5	0 04.8	+00 31	3 42.8	+14 34	11 57 48	+07 02
23	8200.5	0 08.5	+00 55	4 39.3	+17 31	12 01 45	+06 44
24	8201.5	0 12.1	+01 19	5 37.9	+19 27	12 05 41	+06 26
25	8202.5	0 15.7	+01 42	6 37.8	+20 12	12 09 38	+06 08
26	8203.5	0 19.4	+02 06	7 38.2	+19 41	12 13 34	+05 50
27	8204.5	0 23.0	+02 29	8 37.9	+17 54	12 17 31	+05 31
28	8205.5	0 26.7	+02 53	9 36.2	+15 01	12 21 28	+05 13
29	8206.5	0 30.3	+03 16	10 32.4	+11 14	12 25 24	+04 55
30	8207.5	0 33.9	+03 40	11 26.6	+06 52	12 29 21	+04 37
31	8208.5	0 37.6	+04 03	12 19.1	+02 11	12 33 17	+04 19

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laikas (S₀) 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	8209.5	0 41.2	+04 26	13 10.3	-02 32	12 37 14	+04 01
2	8210.5	0 44.9	+04 49	14 00.8	-07 01	12 41 10	+03 43
3	8211.5	0 48.5	+05 12	14 50.9	-11 05	12 45 07	+03 25
4	8212.5	0 52.2	+05 35	15 41.0	-14 32	12 49 03	+03 08
5	8213.5	0 55.8	+05 58	16 31.3	-17 15	12 53 00	+02 50
6	8214.5	0 59.5	+06 21	17 21.9	-19 09	12 56 57	+02 33
7	8215.5	1 03.1	+06 43	18 12.6	-20 09	13 00 53	+02 16
8	8216.5	1 06.8	+07 06	19 03.2	-20 15	13 04 50	+01 59
9	8217.5	1 10.5	+07 28	19 53.5	-19 27	13 08 46	+01 42
10	8218.5	1 14.1	+07 51	20 43.2	-17 47	13 12 43	+01 26
11	8219.5	1 17.8	+08 13	21 32.5	-15 19	13 16 39	+01 10
12	8220.5	1 21.5	+08 35	22 21.3	-12 08	13 20 36	+00 54
13	8221.5	1 25.2	+08 57	23 10.0	-08 20	13 24 32	+00 39
14	8222.5	1 28.9	+09 18	23 58.9	-04 04	13 28 29	+00 24
15	8223.5	1 32.6	+09 40	0 48.5	+00 30	13 32 26	+00 09
16	8224.5	1 36.3	+10 01	1 39.4	+05 10	13 36 22	-00 05
17	8225.5	1 40.0	+10 23	2 32.1	+09 40	13 40 19	-00 19
18	8226.5	1 43.7	+10 44	3 27.0	+13 43	13 44 15	-00 33
19	8227.5	1 47.4	+11 05	4 24.3	+17 01	13 48 12	-00 46
20	8228.5	1 51.1	+11 25	5 23.6	+19 18	13 52 08	-00 59
21	8229.5	1 54.9	+11 46	6 24.2	+20 23	13 56 05	-01 11
22	8230.5	1 58.6	+12 06	7 24.9	+20 08	14 00 01	-01 23
23	8231.5	2 02.4	+12 26	8 24.7	+18 38	14 03 58	-01 35
24	8232.5	2 06.1	+12 46	9 22.6	+16 00	14 07 55	-01 46
25	8233.5	2 09.9	+13 06	10 18.2	+12 28	14 11 51	-01 57
26	8234.5	2 13.7	+13 26	11 11.7	+08 17	14 15 48	-02 07
27	8235.5	2 17.4	+13 45	12 03.4	+03 43	14 19 44	-02 17
28	8236.5	2 21.2	+14 04	12 53.9	-00 58	14 23 41	-02 26
29	8237.5	2 25.0	+14 23	13 43.7	-05 33	14 27 37	-02 35
30	8238.5	2 28.8	+14 41	14 33.4	-09 47	14 31 34	-02 43

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Geguzē

Mēn. diena	Julija diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	8239.5	2 32.6	+15 60	15 23.3	-13 30	14 35 30	-02 51
2	8240.5	2 36.5	+15 18	16 13.6	-16 33	14 39 27	-02 58
3	8241.5	2 40.3	+15 36	17 04.4	-18 47	14 43 24	-03 05
4	8242.5	2 44.1	+15 53	17 55.5	-20 08	14 47 20	-03 11
5	8243.5	2 48.0	+16 10	18 46.5	-20 34	14 51 17	-03 17
6	8244.5	2 51.8	+16 27	19 37.0	-20 04	14 55 13	-03 22
7	8245.5	2 55.7	+16 44	20 26.9	-18 41	14 59 10	-03 26
8	8246.5	2 59.6	+17 01	21 16.1	-16 30	15 03 06	-03 30
9	8247.5	3 03.5	+17 17	22 04.5	-13 34	15 07 03	-03 33
10	8248.5	3 07.4	+17 33	22 52.5	-10 00	15 10 59	-03 36
11	8249.5	3 11.3	+17 49	23 40.6	-05 54	15 14 56	-03 38
12	8250.5	3 15.2	+18 04	0 29.3	-01 26	15 18 53	-03 39
13	8251.5	3 19.1	+18 19	1 19.3	+03 15	15 22 49	-03 40
14	8252.5	3 23.1	+18 34	2 11.3	+07 55	15 26 46	-03 40
15	8253.5	3 27.0	+18 48	3 05.9	+12 17	15 30 42	-03 40
16	8254.5	3 31.0	+19 02	4 03.4	+16 01	15 34 39	-03 39
17	8255.5	3 34.9	+19 16	5 03.6	+18 49	15 38 35	-03 38
18	8256.5	3 38.9	+19 29	6 05.7	+20 22	15 42 32	-03 36
19	8257.5	3 42.9	+19 42	7 08.4	+20 33	15 46 28	-03 33
20	8258.5	3 46.9	+19 55	8 10.1	+19 22	15 50 25	-03 30
21	8259.5	3 50.9	+20 08	9 09.6	+16 57	15 54 22	-03 27
22	8260.5	3 54.9	+20 20	10 06.3	+13 33	15 58 18	-03 23
23	8261.5	3 58.9	+20 31	11 00.3	+09 28	16 02 15	-03 18
24	8262.5	4 03.0	+20 43	11 51.9	+04 59	16 06 11	-03 13
25	8263.5	4 07.0	+20 54	12 41.9	+00 20	16 10 08	-03 07
26	8264.5	4 11.0	+21 05	13 30.9	-04 16	16 14 04	-03 01
27	8265.5	4 15.1	+21 15	14 19.7	-08 35	16 18 01	-02 55
28	8266.5	4 19.1	+21 25	15 08.8	-12 28	16 21 57	-02 48
29	8267.5	4 23.2	+21 34	15 58.5	-15 45	16 25 54	-02 40
30	8268.5	4 27.3	+21 44	16 48.9	-18 16	16 29 51	-02 32
31	8269.5	4 31.4	+21 52	17 39.8	-19 56	16 33 47	-02 24

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laikas (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	8270.5	4 35.5	+22 01	18 31.0	-20 41	16 37 44	-02 15
2	8271.5	4 39.6	+22 09	19 21.8	-20 30	16 41 40	-02 06
3	8272.5	4 43.7	+22 17	20 12.0	-19 24	16 45 37	-01 57
4	8273.5	4 47.8	+22 24	21 01.3	-17 28	16 49 33	-01 47
5	8274.5	4 51.9	+22 31	21 49.6	-14 47	16 53 30	-01 36
6	8275.5	4 56.0	+22 37	22 37.1	-11 27	16 57 26	-01 26
7	8276.5	5 00.1	+22 43	23 24.2	-07 35	17 01 23	-01 15
8	8277.5	5 04.3	+22 49	0 11.6	-03 18	17 05 20	-01 04
9	8278.5	5 08.4	+22 54	1 00.0	+01 16	17 09 16	-00 52
10	8279.5	5 12.5	+22 59	1 50.1	+05 54	17 13 13	-00 40
11	8280.5	5 16.7	+23 04	2 42.8	+10 24	17 17 09	-00 28
12	8281.5	5 20.8	+23 08	3 38.7	+14 29	17 21 06	-00 16
13	8282.5	5 25.0	+23 11	4 38.1	+17 47	17 25 02	-00 03
14	8283.5	5 29.1	+23 15	5 40.5	+19 57	17 28 59	+00 09
15	8284.5	5 33.3	+23 18	6 44.6	+20 45	17 32 55	+00 22
16	8285.5	5 37.4	+23 20	7 48.8	+20 04	17 36 52	+00 35
17	8286.5	5 41.6	+23 22	8 51.2	+18 00	17 40 49	+00 48
18	8287.5	5 45.8	+23 24	9 50.6	+14 47	17 44 45	+01 01
19	8288.5	5 49.9	+23 25	10 46.8	+10 46	17 48 42	+01 14
20	8289.5	5 54.1	+23 26	11 39.9	+06 16	17 52 38	+01 28
21	8290.5	5 58.2	+23 26	12 30.8	+01 35	17 56 35	+01 41
22	8291.5	6 02.4	+23 26	13 20.1	-03 05	18 00 31	+01 54
23	8292.5	6 06.6	+23 26	14 08.6	-07 29	18 04 28	+02 07
24	8293.5	6 10.7	+23 25	14 57.2	-11 29	18 08 24	+02 19
25	8294.5	6 14.9	+23 23	15 46.2	-14 55	18 12 21	+02 32
26	8295.5	6 19.0	+23 22	16 35.9	-17 39	18 16 18	+02 45
27	8296.5	6 23.2	+23 20	17 26.3	-19 35	18 20 14	+02 57
28	8297.5	6 27.3	+23 17	18 17.2	-20 36	18 24 11	+03 10
29	8298.5	6 31.5	+23 14	19 08.1	-20 42	18 28 07	+03 22
30	8299.5	6 35.6	+23 11	19 58.6	-19 52	18 32 04	+03 34

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Liepa

Mēn. diena	Julijauss diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	8300.5	6 39.8	+23 07	20 48.2	-18 11	18 36 00	+03 46
2	8301.5	6 43.9	+23 03	21 36.7	-15 43	18 39 57	+03 57
3	8302.5	6 48.0	+22 59	22 24.1	-12 34	18 43 53	+04 08
4	8303.5	6 52.1	+22 54	23 10.9	-08 53	18 47 50	+04 19
5	8304.5	6 56.3	+22 48	23 57.4	-04 47	18 51 47	+04 30
6	8305.5	7 00.4	+22 43	0 44.3	-00 23	18 55 43	+04 40
7	8306.5	7 04.5	+22 36	1 32.4	+04 09	18 59 40	+04 50
8	8307.5	7 08.6	+22 30	2 22.7	+08 37	19 03 36	+04 60
9	8308.5	7 12.7	+22 23	3 15.8	+12 48	19 07 33	+05 09
10	8309.5	7 16.8	+22 16	4 12.4	+16 25	19 11 29	+05 18
11	8310.5	7 20.9	+22 08	5 12.7	+19 07	19 15 26	+05 26
12	8311.5	7 24.9	+22 00	6 16.1	+20 34	19 19 22	+05 34
13	8312.5	7 29.0	+21 52	7 21.0	+20 34	19 23 19	+05 42
14	8313.5	7 33.1	+21 43	8 25.5	+19 04	19 27 16	+05 49
15	8314.5	7 37.1	+21 34	9 27.9	+16 14	19 31 12	+05 56
16	8315.5	7 41.2	+21 24	10 27.1	+12 23	19 35 09	+06 02
17	8316.5	7 45.2	+21 14	11 23.1	+07 52	19 39 05	+06 07
18	8317.5	7 49.2	+21 04	12 16.1	+03 04	19 43 02	+06 12
19	8318.5	7 53.2	+20 53	13 07.0	-01 44	19 46 58	+06 17
20	8319.5	7 57.2	+20 42	13 56.6	-06 19	19 50 55	+06 21
21	8320.5	8 01.2	+20 31	14 45.5	-10 29	19 54 51	+06 24
22	8321.5	8 05.2	+20 19	15 34.5	-14 05	19 58 48	+06 27
23	8322.5	8 09.2	+20 07	16 24.0	-17 00	20 02 45	+06 29
24	8323.5	8 13.2	+19 55	17 14.0	-19 08	20 06 41	+06 31
25	8324.5	8 17.1	+19 42	18 04.6	-20 24	20 10 38	+06 32
26	8325.5	8 21.1	+19 29	18 55.4	-20 45	20 14 34	+06 32
27	8326.5	8 25.0	+19 16	19 45.9	-20 10	20 18 31	+06 32
28	8327.5	8 29.0	+19 02	20 35.8	-18 42	20 22 27	+06 31
29	8328.5	8 32.9	+18 48	21 24.7	-16 25	20 26 24	+06 30
30	8329.5	8 36.8	+18 34	22 12.5	-13 26	20 30 20	+06 27
31	8330.5	8 40.7	+18 20	22 59.4	-09 52	20 34 17	+06 25

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Rugpjūtis

Mēn. diena	Julija diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	8331.5	8 44.6	+18 05	23 45.8	-05 52	20 38 14	+06 22
2	8332.5	8 48.5	+17 50	0 32.1	-01 34	20 42 10	+06 18
3	8333.5	8 52.3	+17 34	1 19.1	+02 52	20 46 07	+06 13
4	8334.5	8 56.2	+17 18	2 07.6	+07 17	20 50 03	+06 08
5	8335.5	9 00.0	+17 02	2 58.3	+11 29	20 54 00	+06 03
6	8336.5	9 03.9	+16 46	3 51.9	+15 12	20 57 56	+05 57
7	8337.5	9 07.7	+16 29	4 49.1	+18 11	21 01 53	+05 50
8	8338.5	9 11.5	+16 13	5 49.6	+20 07	21 05 49	+05 42
9	8339.5	9 15.3	+15 56	6 52.6	+20 45	21 09 46	+05 35
10	8340.5	9 19.1	+15 38	7 56.7	+19 55	21 13 43	+05 26
11	8341.5	9 22.9	+15 21	9 00.2	+17 39	21 17 39	+05 17
12	8342.5	9 26.7	+15 03	10 01.5	+14 10	21 21 36	+05 07
13	8343.5	9 30.5	+14 45	11 00.0	+09 49	21 25 32	+04 57
14	8344.5	9 34.2	+14 26	11 55.6	+04 57	21 29 29	+04 47
15	8345.5	9 38.0	+14 08	12 48.8	-00 02	21 33 25	+04 35
16	8346.5	9 41.7	+13 49	13 40.2	-04 51	21 37 22	+04 23
17	8347.5	9 45.5	+13 30	14 30.6	-09 17	21 41 18	+04 11
18	8348.5	9 49.2	+13 11	15 20.6	-13 09	21 45 15	+03 58
19	8349.5	9 52.9	+12 51	16 10.6	-16 19	21 49 12	+03 45
20	8350.5	9 56.6	+12 32	17 00.9	-18 41	21 53 08	+03 31
21	8351.5	10 00.3	+12 12	17 51.5	-20 11	21 57 05	+03 16
22	8352.5	10 04.0	+11 52	18 42.2	-20 46	22 01 01	+03 01
23	8353.5	10 07.7	+11 32	19 32.8	-20 25	22 04 58	+02 46
24	8354.5	10 11.4	+11 11	20 22.9	-19 10	22 08 54	+02 30
25	8355.5	10 15.1	+10 51	21 12.1	-17 04	22 12 51	+02 14
26	8356.5	10 18.7	+10 30	22 00.4	-14 14	22 16 47	+01 57
27	8357.5	10 22.4	+10 09	22 47.8	-10 46	22 20 44	+01 40
28	8358.5	10 26.0	+09 48	23 34.6	-06 49	22 24 41	+01 23
29	8359.5	10 29.7	+09 27	0 21.1	-02 33	22 28 37	+01 05
30	8360.5	10 33.3	+09 06	1 08.0	+01 54	22 32 34	+00 47
31	8361.5	10 37.0	+08 44	1 55.9	+06 20	22 36 30	+00 28

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	8362.5	10 40.6	+08 22	2 45.5	+10 34	22 40 27	+00 09
2	8363.5	10 44.2	+08 01	3 37.4	+14 23	22 44 23	-00 10
3	8364.5	10 47.8	+07 39	4 32.2	+17 31	22 48 20	-00 29
4	8365.5	10 51.4	+07 17	5 29.9	+19 44	22 52 16	-00 49
5	8366.5	10 55.1	+06 55	6 30.2	+20 47	22 56 13	-01 09
6	8367.5	10 58.7	+06 32	7 32.2	+20 29	23 00 10	-01 29
7	8368.5	11 02.3	+06 10	8 34.3	+18 48	23 04 06	-01 49
8	8369.5	11 05.9	+05 47	9 35.5	+15 49	23 08 03	-02 09
9	8370.5	11 09.5	+05 25	10 34.6	+11 48	23 11 59	-02 30
10	8371.5	11 13.1	+05 02	11 31.5	+07 05	23 15 56	-02 51
11	8372.5	11 16.7	+04 39	12 26.2	+02 02	23 19 52	-03 12
12	8373.5	11 20.3	+04 17	13 19.3	-03 01	23 23 49	-03 33
13	8374.5	11 23.8	+03 54	14 11.2	-07 45	23 27 45	-03 54
14	8375.5	11 27.4	+03 31	15 02.6	-11 58	23 31 42	-04 15
15	8376.5	11 31.0	+03 08	15 53.7	-15 29	23 35 39	-04 36
16	8377.5	11 34.6	+02 45	16 44.9	-18 11	23 39 35	-04 58
17	8378.5	11 38.2	+02 21	17 36.2	-19 59	23 43 32	-05 19
18	8379.5	11 41.8	+01 58	18 27.4	-20 50	23 47 28	-05 41
19	8380.5	11 45.4	+01 35	19 18.3	-20 44	23 51 25	-06 02
20	8381.5	11 49.0	+01 12	20 08.6	-19 43	23 55 21	-06 23
21	8382.5	11 52.5	+00 49	20 58.1	-17 50	23 59 18	-06 45
22	8383.5	11 56.1	+00 25	21 46.6	-15 11	0 03 14	-07 06
23	8384.5	11 59.7	+00 02	22 34.4	-11 50	0 07 11	-07 27
24	8385.5	12 03.3	-00 21	23 21.5	-07 58	0 11 08	-07 48
25	8386.5	12 06.9	-00 45	0 08.5	-03 41	0 15 04	-08 09
26	8387.5	12 10.5	-01 08	0 55.8	+00 50	0 19 01	-08 30
27	8388.5	12 14.1	-01 32	1 43.9	+05 23	0 22 57	-08 51
28	8389.5	12 17.7	-01 55	2 33.6	+09 45	0 26 54	-09 11
29	8390.5	12 21.3	-02 18	3 25.3	+13 44	0 30 50	-09 31
30	8391.5	12 24.9	-02 42	4 19.4	+17 04	0 34 47	-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	8392.5	12 28.5	-03 05	5 16.0	+19 31	0 38 43	-10 11
2	8393.5	12 32.1	-03 28	6 14.8	+20 50	0 42 40	-10 30
3	8394.5	12 35.8	-03 51	7 15.0	+20 54	0 46 37	-10 49
4	8395.5	12 39.4	-04 14	8 15.4	+19 38	0 50 33	-11 08
5	8396.5	12 43.0	-04 38	9 15.1	+17 06	0 54 30	-11 26
6	8397.5	12 46.7	-05 01	10 13.2	+13 29	0 58 26	-11 44
7	8398.5	12 50.3	-05 24	11 09.5	+09 03	1 02 23	-12 02
8	8399.5	12 54.0	-05 47	12 04.1	+04 07	1 06 19	-12 19
9	8400.5	12 57.7	-06 09	12 57.3	-00 59	1 10 16	-12 36
10	8401.5	13 01.3	-06 32	13 49.7	-05 56	1 14 12	-12 52
11	8402.5	13 05.0	-06 55	14 41.7	-10 29	1 18 09	-13 08
12	8403.5	13 08.7	-07 18	15 33.7	-14 24	1 22 06	-13 23
13	8404.5	13 12.4	-07 40	16 25.9	-17 30	1 26 02	-13 38
14	8405.5	13 16.1	-08 02	17 18.1	-19 41	1 29 59	-13 52
15	8406.5	13 19.8	-08 25	18 10.2	-20 54	1 33 55	-14 06
16	8407.5	13 23.5	-08 47	19 01.8	-21 07	1 37 52	-14 20
17	8408.5	13 27.2	-09 09	19 52.6	-20 23	1 41 48	-14 32
18	8409.5	13 31.0	-09 31	20 42.4	-18 45	1 45 45	-14 45
19	8410.5	13 34.7	-09 53	21 31.2	-16 19	1 49 41	-14 56
20	8411.5	13 38.5	-10 14	22 19.0	-13 10	1 53 38	-15 07
21	8412.5	13 42.3	-10 36	23 06.1	-09 25	1 57 35	-15 17
22	8413.5	13 46.0	-10 57	23 53.1	-05 12	2 01 31	-15 27
23	8414.5	13 49.8	-11 18	0 40.4	-00 41	2 05 28	-15 36
24	8415.5	13 53.6	-11 39	1 28.7	+03 59	2 09 24	-15 45
25	8416.5	13 57.5	-12 00	2 18.5	+08 33	2 13 21	-15 52
26	8417.5	14 01.3	-12 21	3 10.6	+12 48	2 17 17	-15 59
27	8418.5	14 05.1	-12 41	4 05.1	+16 28	2 21 14	-16 05
28	8419.5	14 09.0	-13 01	5 02.2	+19 14	2 25 10	-16 11
29	8420.5	14 12.8	-13 21	6 01.3	+20 53	2 29 07	-16 16
30	8421.5	14 16.7	-13 41	7 01.6	+21 15	2 33 04	-16 20
31	8422.5	14 20.6	-14 01	8 01.9	+20 17	2 37 00	-16 23

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	8423.5	14 24.5	-14 20	9 01.1	+18 03	2 40 57	-16 25
2	8424.5	14 28.4	-14 39	9 58.4	+14 44	2 44 53	-16 26
3	8425.5	14 32.4	-14 58	10 53.7	+10 34	2 48 50	-16 27
4	8426.5	14 36.3	-15 17	11 47.1	+05 51	2 52 46	-16 27
5	8427.5	14 40.3	-15 35	12 39.3	+00 51	2 56 43	-16 26
6	8428.5	14 44.2	-15 54	13 30.8	-04 09	3 00 39	-16 24
7	8429.5	14 48.2	-16 11	14 22.2	-08 52	3 04 36	-16 22
8	8430.5	14 52.2	-16 29	15 13.8	-13 04	3 08 33	-16 18
9	8431.5	14 56.2	-16 46	16 06.0	-16 34	3 12 29	-16 14
10	8432.5	15 00.3	-17 04	16 58.6	-19 10	3 16 26	-16 09
11	8433.5	15 04.3	-17 20	17 51.4	-20 47	3 20 22	-16 03
12	8434.5	15 08.4	-17 37	18 43.8	-21 24	3 24 19	-15 56
13	8435.5	15 12.4	-17 53	19 35.5	-21 00	3 28 15	-15 48
14	8436.5	15 16.5	-18 09	20 25.9	-19 40	3 32 12	-15 39
15	8437.5	15 20.6	-18 24	21 15.0	-17 29	3 36 08	-15 30
16	8438.5	15 24.7	-18 40	22 02.9	-14 34	3 40 05	-15 20
17	8439.5	15 28.9	-18 55	22 49.8	-11 02	3 44 02	-15 09
18	8440.5	15 33.0	-19 09	23 36.2	-06 59	3 47 58	-14 57
19	8441.5	15 37.2	-19 23	0 22.8	-02 34	3 51 55	-14 44
20	8442.5	15 41.3	-19 37	1 10.3	+02 05	3 55 51	-14 31
21	8443.5	15 45.5	-19 51	1 59.4	+06 46	3 59 48	-14 17
22	8444.5	15 49.7	-20 04	2 50.9	+11 16	4 03 44	-14 02
23	8445.5	15 53.9	-20 17	3 45.3	+15 17	4 07 41	-13 46
24	8446.5	15 58.1	-20 29	4 42.8	+18 31	4 11 37	-13 29
25	8447.5	16 02.4	-20 41	5 43.0	+20 40	4 15 34	-13 12
26	8448.5	16 06.6	-20 53	6 44.8	+21 29	4 19 31	-12 54
27	8449.5	16 10.9	-21 04	7 46.9	+20 53	4 23 27	-12 35
28	8450.5	16 15.1	-21 15	8 47.6	+18 55	4 27 24	-12 15
29	8451.5	16 19.4	-21 25	9 46.1	+15 47	4 31 20	-11 55
30	8452.5	16 23.7	-21 36	10 41.8	+11 47	4 35 17	-11 33

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laikas (S₀) 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	8453.5	16 28.0	-21 45	11 35.2	+07 11	4 39 13	-11 12
2	8454.5	16 32.3	-21 54	12 26.8	+02 16	4 43 10	-10 49
3	8455.5	16 36.7	-22 03	13 17.2	-02 41	4 47 06	-10 26
4	8456.5	16 41.0	-22 12	14 07.4	-07 27	4 51 03	-10 02
5	8457.5	16 45.3	-22 20	14 57.9	-11 47	4 55 00	-09 38
6	8458.5	16 49.7	-22 27	15 49.0	-15 31	4 58 56	-09 13
7	8459.5	16 54.1	-22 34	16 41.0	-18 26	5 02 53	-08 47
8	8460.5	16 58.4	-22 41	17 33.5	-20 26	5 06 49	-08 21
9	8461.5	17 02.8	-22 47	18 26.2	-21 26	5 10 46	-07 55
10	8462.5	17 07.2	-22 53	19 18.5	-21 24	5 14 42	-07 28
11	8463.5	17 11.6	-22 58	20 09.6	-20 23	5 18 39	-07 01
12	8464.5	17 16.0	-23 03	20 59.4	-18 28	5 22 35	-06 33
13	8465.5	17 20.4	-23 07	21 47.6	-15 48	5 26 32	-06 05
14	8466.5	17 24.8	-23 11	22 34.4	-12 29	5 30 29	-05 37
15	8467.5	17 29.3	-23 15	23 20.3	-08 38	5 34 25	-05 08
16	8468.5	17 33.7	-23 18	0 06.0	-04 24	5 38 22	-04 39
17	8469.5	17 38.1	-23 20	0 52.1	+00 06	5 42 18	-04 10
18	8470.5	17 42.6	-23 22	1 39.4	+04 44	5 46 15	-03 41
19	8471.5	17 47.0	-23 24	2 29.0	+09 17	5 50 11	-03 11
20	8472.5	17 51.4	-23 25	3 21.5	+13 33	5 54 08	-02 42
21	8473.5	17 55.9	-23 26	4 17.6	+17 12	5 58 04	-02 12
22	8474.5	18 00.3	-23 26	5 17.2	+19 55	6 02 01	-01 42
23	8475.5	18 04.7	-23 26	6 19.8	+21 22	6 05 58	-01 12
24	8476.5	18 09.2	-23 25	7 23.8	+21 21	6 09 54	-00 43
25	8477.5	18 13.6	-23 24	8 27.4	+19 50	6 13 51	-00 13
26	8478.5	18 18.0	-23 22	9 28.8	+16 59	6 17 47	+00 17
27	8479.5	18 22.5	-23 20	10 27.2	+13 05	6 21 44	+00 46
28	8480.5	18 26.9	-23 17	11 22.5	+08 30	6 25 40	+01 16
29	8481.5	18 31.3	-23 14	12 15.3	+03 34	6 29 37	+01 45
30	8482.5	18 35.8	-23 11	13 06.2	-01 27	6 33 33	+02 14
31	8483.5	18 40.2	-23 07	13 56.2	-06 16	6 37 30	+02 43