

SAULĖS IR MĖNULIO PUSIAUJINĖS KOORDINATĖS 2021 METAIS

ALGIRDAS KAZLAUSKAS

Lentelės antrajame stulpelyje pateikiamos Julijaus dienos, skaičiuojamos nuo 4713 metų pr. Kr. sausio 1 d. vidurdienio. Pvz., 2021 m. sausio 1 d. 0 val. pasauliniu arba 2 val. Lietuvos laiku yra 2 459 215.5 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	9215.5	18 46.9	-23 00	8 23.6	+23 01	6 43 29	+03 26
2	9216.5	18 51.3	-22 55	9 19.0	+20 13	6 47 25	+03 54
3	9217.5	18 55.7	-22 49	10 12.8	+16 18	6 51 22	+04 22
4	9218.5	19 00.1	-22 43	11 05.1	+11 31	6 55 18	+04 49
5	9219.5	19 04.5	-22 37	11 56.1	+06 05	6 59 15	+05 16
6	9220.5	19 08.9	-22 30	12 46.8	+00 17	7 03 11	+05 43
7	9221.5	19 13.3	-22 22	13 38.0	-05 35	7 07 08	+06 09
8	9222.5	19 17.6	-22 14	14 30.7	-11 14	7 11 04	+06 34
9	9223.5	19 22.0	-22 06	15 25.9	-16 20	7 15 01	+06 60
10	9224.5	19 26.3	-21 57	16 24.1	-20 30	7 18 58	+07 24
11	9225.5	19 30.7	-21 48	17 24.9	-23 24	7 22 54	+07 48
12	9226.5	19 35.0	-21 39	18 27.4	-24 46	7 26 51	+08 12
13	9227.5	19 39.4	-21 29	19 29.6	-24 32	7 30 47	+08 35
14	9228.5	19 43.7	-21 18	20 29.7	-22 45	7 34 44	+08 57
15	9229.5	19 48.0	-21 07	21 26.3	-19 43	7 38 40	+09 19
16	9230.5	19 52.3	-20 56	22 19.1	-15 44	7 42 37	+09 40
17	9231.5	19 56.5	-20 44	23 08.3	-11 08	7 46 33	+10 00
18	9232.5	20 00.8	-20 32	23 54.7	-06 10	7 50 30	+10 20
19	9233.5	20 05.1	-20 20	0 39.2	-01 05	7 54 26	+10 38
20	9234.5	20 09.3	-20 07	1 22.8	+03 57	7 58 23	+10 56
21	9235.5	20 13.5	-19 54	2 06.4	+08 48	8 02 20	+11 14
22	9236.5	20 17.8	-19 40	2 51.0	+13 18	8 06 16	+11 30
23	9237.5	20 22.0	-19 26	3 37.4	+17 19	8 10 13	+11 46
24	9238.5	20 26.2	-19 12	4 26.1	+20 41	8 14 09	+12 01
25	9239.5	20 30.3	-18 58	5 17.6	+23 11	8 18 06	+12 15
26	9240.5	20 34.5	-18 43	6 11.7	+24 37	8 22 02	+12 28
27	9241.5	20 38.6	-18 27	7 07.9	+24 49	8 25 59	+12 41
28	9242.5	20 42.8	-18 12	8 04.9	+23 40	8 29 55	+12 53
29	9243.5	20 46.9	-17 56	9 01.6	+21 11	8 33 52	+13 03
30	9244.5	20 51.0	-17 39	9 57.1	+17 28	8 37 49	+13 13
31	9245.5	20 55.1	-17 23	10 51.0	+12 46	8 41 45	+13 23

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Vasaris

Mĕn. diena	Julijaus diena	Saulĕ		Mĕnulis		S_0 h m s	η m s
		α h m	δ o ' /	α h m	δ o ' /		
	245....						
1	9246.5	20 59.2	-17 06	11 43.4	+07 20	8 45 42	+13 31
2	9247.5	21 03.3	-16 49	12 34.8	+01 29	8 49 38	+13 39
3	9248.5	21 07.3	-16 31	13 26.2	-04 27	8 53 35	+13 46
4	9249.5	21 11.4	-16 13	14 18.4	-10 11	8 57 31	+13 52
5	9250.5	21 15.4	-15 55	15 12.4	-15 22	9 01 28	+13 57
6	9251.5	21 19.4	-15 37	16 08.7	-19 42	9 05 24	+14 01
7	9252.5	21 23.4	-15 18	17 07.4	-22 52	9 09 21	+14 05
8	9253.5	21 27.4	-14 59	18 07.9	-24 38	9 13 18	+14 08
9	9254.5	21 31.4	-14 40	19 08.8	-24 51	9 17 14	+14 10
10	9255.5	21 35.4	-14 21	20 08.5	-23 34	9 21 11	+14 12
11	9256.5	21 39.3	-14 01	21 05.7	-20 57	9 25 07	+14 12
12	9257.5	21 43.3	-13 41	21 59.5	-17 16	9 29 04	+14 12
13	9258.5	21 47.2	-13 21	22 49.9	-12 49	9 33 00	+14 11
14	9259.5	21 51.1	-13 01	23 37.5	-07 54	9 36 57	+14 10
15	9260.5	21 55.0	-12 41	0 23.0	-02 46	9 40 53	+14 07
16	9261.5	21 58.9	-12 20	1 07.2	+02 23	9 44 50	+14 04
17	9262.5	22 02.8	-11 59	1 51.0	+07 22	9 48 47	+14 00
18	9263.5	22 06.6	-11 38	2 35.3	+12 02	9 52 43	+13 55
19	9264.5	22 10.5	-11 16	3 20.9	+16 14	9 56 40	+13 50
20	9265.5	22 14.3	-10 55	4 08.5	+19 49	10 00 36	+13 44
21	9266.5	22 18.2	-10 33	4 58.6	+22 36	10 04 33	+13 38
22	9267.5	22 22.0	-10 12	5 51.2	+24 25	10 08 29	+13 30
23	9268.5	22 25.8	-09 50	6 46.1	+25 03	10 12 26	+13 22
24	9269.5	22 29.6	-09 28	7 42.5	+24 24	10 16 22	+13 14
25	9270.5	22 33.4	-09 05	8 39.4	+22 23	10 20 19	+13 05
26	9271.5	22 37.2	-08 43	9 35.8	+19 04	10 24 16	+12 55
27	9272.5	22 40.9	-08 20	10 31.0	+14 35	10 28 12	+12 44
28	9273.5	22 44.7	-07 58	11 25.0	+09 13	10 32 09	+12 34

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	9274.5	22 48.4	-07 35	12 18.1	+03 16	10 36 05	+12 22
2	9275.5	22 52.2	-07 12	13 10.9	-02 55	10 40 02	+12 10
3	9276.5	22 55.9	-06 49	14 04.2	-08 56	10 43 58	+11 58
4	9277.5	22 59.7	-06 26	14 58.9	-14 26	10 47 55	+11 45
5	9278.5	23 03.4	-06 03	15 55.5	-19 04	10 51 51	+11 32
6	9279.5	23 07.1	-05 40	16 54.1	-22 31	10 55 48	+11 18
7	9280.5	23 10.8	-05 17	17 54.1	-24 35	10 59 45	+11 04
8	9281.5	23 14.5	-04 53	18 54.3	-25 09	11 03 41	+10 50
9	9282.5	23 18.2	-04 30	19 53.5	-24 12	11 07 38	+10 35
10	9283.5	23 21.9	-04 06	20 50.2	-21 55	11 11 34	+10 20
11	9284.5	23 25.6	-03 43	21 44.0	-18 31	11 15 31	+10 04
12	9285.5	23 29.2	-03 19	22 34.6	-14 17	11 19 27	+09 48
13	9286.5	23 32.9	-02 56	23 22.4	-09 29	11 23 24	+09 32
14	9287.5	23 36.6	-02 32	0 08.1	-04 22	11 27 20	+09 16
15	9288.5	23 40.3	-02 08	0 52.6	+00 50	11 31 17	+08 59
16	9289.5	23 43.9	-01 44	1 36.5	+05 57	11 35 14	+08 43
17	9290.5	23 47.6	-01 21	2 20.7	+10 47	11 39 10	+08 26
18	9291.5	23 51.2	-00 57	3 05.9	+15 12	11 43 07	+08 08
19	9292.5	23 54.9	-00 33	3 52.7	+19 00	11 47 03	+07 51
20	9293.5	23 58.5	-00 10	4 41.7	+22 04	11 51 00	+07 33
21	9294.5	0 02.2	+00 14	5 32.9	+24 11	11 54 56	+07 15
22	9295.5	0 05.8	+00 38	6 26.2	+25 14	11 58 53	+06 58
23	9296.5	0 09.5	+01 02	7 21.1	+25 03	12 02 49	+06 40
24	9297.5	0 13.1	+01 25	8 16.9	+23 33	12 06 46	+06 22
25	9298.5	0 16.7	+01 49	9 12.6	+20 45	12 10 43	+06 03
26	9299.5	0 20.4	+02 12	10 07.7	+16 44	12 14 39	+05 45
27	9300.5	0 24.0	+02 36	11 02.0	+11 40	12 18 36	+05 27
28	9301.5	0 27.7	+02 59	11 55.7	+05 49	12 22 32	+05 09
29	9302.5	0 31.3	+03 23	12 49.3	-00 28	12 26 29	+04 51
30	9303.5	0 34.9	+03 46	13 43.7	-06 49	12 30 25	+04 32
31	9304.5	0 38.6	+04 09	14 39.6	-12 47	12 34 22	+04 14

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	9305.5	0 42.2	+04 33	15 37.5	-17 57	12 38 18	+03 56
2	9306.5	0 45.9	+04 56	16 37.4	-21 56	12 42 15	+03 39
3	9307.5	0 49.5	+05 19	17 38.8	-24 28	12 46 12	+03 21
4	9308.5	0 53.2	+05 42	18 40.4	-25 24	12 50 08	+03 03
5	9309.5	0 56.8	+06 04	19 40.5	-24 47	12 54 05	+02 46
6	9310.5	1 00.5	+06 27	20 38.0	-22 45	12 58 01	+02 29
7	9311.5	1 04.1	+06 50	21 32.1	-19 33	13 01 58	+02 12
8	9312.5	1 07.8	+07 12	22 22.8	-15 30	13 05 54	+01 55
9	9313.5	1 11.5	+07 35	23 10.6	-10 50	13 09 51	+01 39
10	9314.5	1 15.2	+07 57	23 56.2	-05 47	13 13 47	+01 23
11	9315.5	1 18.8	+08 19	0 40.4	-00 35	13 17 44	+01 07
12	9316.5	1 22.5	+08 41	1 24.1	+04 35	13 21 41	+00 51
13	9317.5	1 26.2	+09 03	2 08.0	+09 32	13 25 37	+00 36
14	9318.5	1 29.9	+09 25	2 52.8	+14 07	13 29 34	+00 21
15	9319.5	1 33.6	+09 46	3 39.1	+18 09	13 33 30	+00 06
16	9320.5	1 37.3	+10 07	4 27.4	+21 28	13 37 27	-00 08
17	9321.5	1 41.0	+10 29	5 17.8	+23 53	13 41 23	-00 22
18	9322.5	1 44.7	+10 50	6 10.1	+25 16	13 45 20	-00 35
19	9323.5	1 48.4	+11 11	7 03.8	+25 28	13 49 16	-00 49
20	9324.5	1 52.2	+11 31	7 58.2	+24 25	13 53 13	-01 01
21	9325.5	1 55.9	+11 52	8 52.7	+22 07	13 57 10	-01 14
22	9326.5	1 59.7	+12 12	9 46.6	+18 37	14 01 06	-01 26
23	9327.5	2 03.4	+12 32	10 39.7	+14 02	14 05 03	-01 37
24	9328.5	2 07.2	+12 52	11 32.4	+08 33	14 08 59	-01 48
25	9329.5	2 10.9	+13 12	12 25.2	+02 27	14 12 56	-01 59
26	9330.5	2 14.7	+13 31	13 19.0	-03 57	14 16 52	-02 09
27	9331.5	2 18.5	+13 50	14 14.5	-10 14	14 20 49	-02 19
28	9332.5	2 22.3	+14 09	15 12.6	-15 58	14 24 45	-02 28
29	9333.5	2 26.1	+14 28	16 13.5	-20 39	14 28 42	-02 37
30	9334.5	2 29.9	+14 46	17 16.6	-23 53	14 32 39	-02 45

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	9335.5	2 33.7	+15 05	18 20.5	-25 27	14 36 35	-02 53
2	9336.5	2 37.5	+15 23	19 23.3	-25 18	14 40 32	-02 60
3	9337.5	2 41.4	+15 40	20 23.3	-23 35	14 44 28	-03 06
4	9338.5	2 45.2	+15 58	21 19.3	-20 36	14 48 25	-03 12
5	9339.5	2 49.1	+16 15	22 11.4	-16 40	14 52 21	-03 17
6	9340.5	2 52.9	+16 32	22 59.9	-12 05	14 56 18	-03 22
7	9341.5	2 56.8	+16 49	23 45.8	-07 06	15 00 14	-03 26
8	9342.5	3 00.7	+17 05	0 30.0	-01 55	15 04 11	-03 30
9	9343.5	3 04.6	+17 21	1 13.4	+03 16	15 08 08	-03 33
10	9344.5	3 08.5	+17 37	1 56.9	+08 18	15 12 04	-03 35
11	9345.5	3 12.4	+17 53	2 41.2	+13 00	15 16 01	-03 37
12	9346.5	3 16.3	+18 08	3 27.1	+17 13	15 19 57	-03 38
13	9347.5	3 20.2	+18 23	4 14.9	+20 45	15 23 54	-03 39
14	9348.5	3 24.2	+18 38	5 04.8	+23 27	15 27 50	-03 39
15	9349.5	3 28.1	+18 52	5 56.6	+25 07	15 31 47	-03 39
16	9350.5	3 32.1	+19 06	6 49.9	+25 38	15 35 43	-03 38
17	9351.5	3 36.0	+19 20	7 43.8	+24 56	15 39 40	-03 36
18	9352.5	3 40.0	+19 33	8 37.5	+23 00	15 43 37	-03 34
19	9353.5	3 44.0	+19 46	9 30.5	+19 54	15 47 33	-03 32
20	9354.5	3 48.0	+19 59	10 22.4	+15 45	15 51 30	-03 29
21	9355.5	3 52.0	+20 11	11 13.5	+10 43	15 55 26	-03 25
22	9356.5	3 56.0	+20 23	12 04.5	+04 59	15 59 23	-03 21
23	9357.5	4 00.0	+20 35	12 56.2	-01 11	16 03 19	-03 16
24	9358.5	4 04.1	+20 46	13 49.6	-07 27	16 07 16	-03 11
25	9359.5	4 08.1	+20 57	14 45.8	-13 26	16 11 12	-03 05
26	9360.5	4 12.1	+21 08	15 45.3	-18 40	16 15 09	-02 59
27	9361.5	4 16.2	+21 18	16 48.2	-22 40	16 19 06	-02 53
28	9362.5	4 20.3	+21 28	17 53.4	-25 03	16 23 02	-02 45
29	9363.5	4 24.3	+21 37	18 58.8	-25 37	16 26 59	-02 38
30	9364.5	4 28.4	+21 46	20 02.0	-24 26	16 30 55	-02 30
31	9365.5	4 32.5	+21 55	21 01.4	-21 46	16 34 52	-02 21

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	9366.5	4 36.6	+22 03	21 56.2	-17 59	16 38 48	-02 12
2	9367.5	4 40.7	+22 11	22 46.9	-13 28	16 42 45	-02 03
3	9368.5	4 44.8	+22 19	23 34.1	-08 29	16 46 41	-01 53
4	9369.5	4 48.9	+22 26	0 19.1	-03 17	16 50 38	-01 43
5	9370.5	4 53.0	+22 33	1 02.7	+01 57	16 54 35	-01 33
6	9371.5	4 57.1	+22 39	1 46.0	+07 02	16 58 31	-01 22
7	9372.5	5 01.3	+22 45	2 30.0	+11 50	17 02 28	-01 11
8	9373.5	5 05.4	+22 51	3 15.3	+16 11	17 06 24	-00 60
9	9374.5	5 09.5	+22 56	4 02.6	+19 55	17 10 21	-00 48
10	9375.5	5 13.7	+23 01	4 52.1	+22 51	17 14 17	-00 36
11	9376.5	5 17.8	+23 05	5 43.7	+24 48	17 18 14	-00 24
12	9377.5	5 22.0	+23 09	6 37.0	+25 37	17 22 10	-00 11
13	9378.5	5 26.1	+23 13	7 31.1	+25 13	17 26 07	+00 01
14	9379.5	5 30.3	+23 16	8 25.0	+23 34	17 30 04	+00 14
15	9380.5	5 34.4	+23 18	9 17.9	+20 45	17 34 00	+00 27
16	9381.5	5 38.6	+23 21	10 09.5	+16 52	17 37 57	+00 39
17	9382.5	5 42.7	+23 23	10 59.8	+12 08	17 41 53	+00 52
18	9383.5	5 46.9	+23 24	11 49.5	+06 42	17 45 50	+01 05
19	9384.5	5 51.1	+23 25	12 39.3	+00 50	17 49 46	+01 19
20	9385.5	5 55.2	+23 26	13 30.3	-05 15	17 53 43	+01 32
21	9386.5	5 59.4	+23 26	14 23.5	-11 11	17 57 39	+01 45
22	9387.5	6 03.5	+23 26	15 20.1	-16 37	18 01 36	+01 58
23	9388.5	6 07.7	+23 26	16 20.4	-21 07	18 05 33	+02 10
24	9389.5	6 11.9	+23 25	17 24.2	-24 12	18 09 29	+02 23
25	9390.5	6 16.0	+23 23	18 29.9	-25 34	18 13 26	+02 36
26	9391.5	6 20.2	+23 21	19 35.2	-25 07	18 17 22	+02 49
27	9392.5	6 24.3	+23 19	20 37.5	-22 59	18 21 19	+03 01
28	9393.5	6 28.5	+23 17	21 35.6	-19 30	18 25 15	+03 13
29	9394.5	6 32.6	+23 14	22 29.2	-15 05	18 29 12	+03 25
30	9395.5	6 36.7	+23 10	23 18.7	-10 06	18 33 08	+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	9396.5	6 40.9	+23 06	0 05.3	-04 50	18 37 05	+03 49
2	9397.5	6 45.0	+23 02	0 49.9	+00 29	18 41 02	+04 00
3	9398.5	6 49.1	+22 57	1 33.7	+05 41	18 44 58	+04 12
4	9399.5	6 53.3	+22 52	2 17.6	+10 36	18 48 55	+04 23
5	9400.5	6 57.4	+22 47	3 02.6	+15 06	18 52 51	+04 33
6	9401.5	7 01.5	+22 41	3 49.3	+19 01	18 56 48	+04 44
7	9402.5	7 05.6	+22 35	4 38.2	+22 10	19 00 44	+04 53
8	9403.5	7 09.7	+22 28	5 29.5	+24 23	19 04 41	+05 03
9	9404.5	7 13.8	+22 21	6 22.7	+25 31	19 08 37	+05 12
10	9405.5	7 17.9	+22 14	7 17.0	+25 24	19 12 34	+05 21
11	9406.5	7 22.0	+22 06	8 11.6	+24 02	19 16 31	+05 29
12	9407.5	7 26.1	+21 58	9 05.3	+21 27	19 20 27	+05 37
13	9408.5	7 30.1	+21 49	9 57.6	+17 46	19 24 24	+05 45
14	9409.5	7 34.2	+21 40	10 48.3	+13 10	19 28 20	+05 52
15	9410.5	7 38.2	+21 31	11 37.9	+07 53	19 32 17	+05 58
16	9411.5	7 42.3	+21 22	12 27.1	+02 09	19 36 13	+06 04
17	9412.5	7 46.3	+21 12	13 16.7	-03 48	19 40 10	+06 09
18	9413.5	7 50.3	+21 01	14 07.9	-09 39	19 44 06	+06 14
19	9414.5	7 54.3	+20 50	15 01.8	-15 07	19 48 03	+06 18
20	9415.5	7 58.3	+20 39	15 59.1	-19 48	19 52 00	+06 22
21	9416.5	8 02.3	+20 28	17 00.0	-23 18	19 55 56	+06 25
22	9417.5	8 06.3	+20 16	18 03.7	-25 17	19 59 53	+06 28
23	9418.5	8 10.3	+20 04	19 08.4	-25 31	20 03 49	+06 30
24	9419.5	8 14.3	+19 52	20 11.8	-24 01	20 07 46	+06 31
25	9420.5	8 18.2	+19 39	21 11.9	-21 01	20 11 42	+06 32
26	9421.5	8 22.2	+19 26	22 07.9	-16 52	20 15 39	+06 32
27	9422.5	8 26.1	+19 12	22 59.7	-11 57	20 19 35	+06 32
28	9423.5	8 30.0	+18 59	23 48.2	-06 38	20 23 32	+06 31
29	9424.5	8 33.9	+18 45	0 34.3	-01 12	20 27 29	+06 29
30	9425.5	8 37.9	+18 30	1 19.0	+04 10	20 31 25	+06 27
31	9426.5	8 41.8	+18 16	2 03.3	+09 15	20 35 22	+06 24

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S_0) 0 val. pasauliniu laiku

Rugpjūtis

Mēn. diena	Julijauss diena	Saulē		Mēnulis		S_0 h m s	η m s
		α h m	δ ° ′	α h m	δ ° ′		
	245....						
1	9427.5	8 45.6	+18 01	2 48.3	+13 56	20 39 18	+06 21
2	9428.5	8 49.5	+17 45	3 34.6	+18 02	20 43 15	+06 17
3	9429.5	8 53.4	+17 30	4 22.8	+21 26	20 47 11	+06 12
4	9430.5	8 57.2	+17 14	5 13.3	+23 56	20 51 08	+06 07
5	9431.5	9 01.1	+16 58	6 06.0	+25 23	20 55 04	+06 02
6	9432.5	9 04.9	+16 42	7 00.3	+25 38	20 59 01	+05 55
7	9433.5	9 08.8	+16 25	7 55.2	+24 36	21 02 58	+05 49
8	9434.5	9 12.6	+16 08	8 49.7	+22 18	21 06 54	+05 41
9	9435.5	9 16.4	+15 51	9 43.1	+18 49	21 10 51	+05 33
10	9436.5	9 20.2	+15 33	10 35.1	+14 20	21 14 47	+05 24
11	9437.5	9 24.0	+15 16	11 25.6	+09 06	21 18 44	+05 15
12	9438.5	9 27.7	+14 58	12 15.4	+03 20	21 22 40	+05 05
13	9439.5	9 31.5	+14 40	13 05.2	-02 39	21 26 37	+04 55
14	9440.5	9 35.3	+14 21	13 55.9	-08 34	21 30 33	+04 44
15	9441.5	9 39.0	+14 03	14 48.7	-14 06	21 34 30	+04 33
16	9442.5	9 42.8	+13 44	15 44.2	-18 55	21 38 27	+04 21
17	9443.5	9 46.5	+13 25	16 42.9	-22 40	21 42 23	+04 08
18	9444.5	9 50.2	+13 06	17 44.4	-25 02	21 46 20	+03 55
19	9445.5	9 53.9	+12 46	18 47.3	-25 46	21 50 16	+03 41
20	9446.5	9 57.7	+12 26	19 49.9	-24 48	21 54 13	+03 27
21	9447.5	10 01.3	+12 07	20 50.2	-22 18	21 58 09	+03 12
22	9448.5	10 05.0	+11 46	21 47.0	-18 31	22 02 06	+02 57
23	9449.5	10 08.7	+11 26	22 40.1	-13 49	22 06 02	+02 42
24	9450.5	10 12.4	+11 06	23 29.9	-08 34	22 09 59	+02 26
25	9451.5	10 16.1	+10 45	0 17.1	-03 04	22 13 56	+02 09
26	9452.5	10 19.7	+10 24	1 02.6	+02 27	22 17 52	+01 53
27	9453.5	10 23.4	+10 04	1 47.5	+07 44	22 21 49	+01 36
28	9454.5	10 27.0	+09 42	2 32.6	+12 38	22 25 45	+01 18
29	9455.5	10 30.7	+09 21	3 18.7	+16 59	22 29 42	+01 00
30	9456.5	10 34.3	+09 00	4 06.4	+20 39	22 33 38	+00 42
31	9457.5	10 38.0	+08 38	4 56.2	+23 27	22 37 35	+00 23

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	9458.5	10 41.6	+08 17	5 48.0	+25 14	22 41 31	+00 05
2	9459.5	10 45.2	+07 55	6 41.5	+25 52	22 45 28	-00 15
3	9460.5	10 48.8	+07 33	7 36.0	+25 15	22 49 25	-00 34
4	9461.5	10 52.4	+07 11	8 30.7	+23 21	22 53 21	-00 54
5	9462.5	10 56.1	+06 49	9 24.7	+20 13	22 57 18	-01 13
6	9463.5	10 59.7	+06 26	10 17.6	+15 58	23 01 14	-01 34
7	9464.5	11 03.3	+06 04	11 09.3	+10 49	23 05 11	-01 54
8	9465.5	11 06.9	+05 41	12 00.2	+05 01	23 09 07	-02 14
9	9466.5	11 10.5	+05 19	12 50.9	-01 06	23 13 04	-02 35
10	9467.5	11 14.1	+04 56	13 42.4	-07 15	23 17 00	-02 56
11	9468.5	11 17.7	+04 33	14 35.6	-13 03	23 20 57	-03 17
12	9469.5	11 21.2	+04 10	15 31.1	-18 09	23 24 54	-03 38
13	9470.5	11 24.8	+03 47	16 29.4	-22 12	23 28 50	-03 59
14	9471.5	11 28.4	+03 24	17 30.1	-24 52	23 32 47	-04 20
15	9472.5	11 32.0	+03 01	18 32.2	-25 58	23 36 43	-04 42
16	9473.5	11 35.6	+02 38	19 33.9	-25 24	23 40 40	-05 03
17	9474.5	11 39.2	+02 15	20 33.7	-23 17	23 44 36	-05 25
18	9475.5	11 42.8	+01 52	21 30.3	-19 52	23 48 33	-05 46
19	9476.5	11 46.3	+01 29	22 23.5	-15 27	23 52 29	-06 08
20	9477.5	11 49.9	+01 05	23 13.5	-10 22	23 56 26	-06 29
21	9478.5	11 53.5	+00 42	0 01.0	-04 55	0 00 23	-06 51
22	9479.5	11 57.1	+00 19	0 46.8	+00 39	0 04 19	-07 12
23	9480.5	12 00.7	-00 05	1 31.9	+06 05	0 08 16	-07 33
24	9481.5	12 04.3	-00 28	2 17.0	+11 12	0 12 12	-07 54
25	9482.5	12 07.9	-00 51	3 03.0	+15 49	0 16 09	-08 15
26	9483.5	12 11.5	-01 15	3 50.3	+19 46	0 20 05	-08 36
27	9484.5	12 15.1	-01 38	4 39.4	+22 52	0 24 02	-08 56
28	9485.5	12 18.7	-02 01	5 30.4	+25 01	0 27 58	-09 17
29	9486.5	12 22.3	-02 25	6 23.0	+26 02	0 31 55	-09 37
30	9487.5	12 25.9	-02 48	7 16.7	+25 51	0 35 52	-09 57

SAULĒS IR MĒNULIO PUSIAUJINĒS KOORDINATĒS

Žvaigždinis laiks (S₀) 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	9488.5	12 29.5	-03 11	8 10.7	+24 24	0 39 48	-10 16
2	9489.5	12 33.1	-03 34	9 04.3	+21 43	0 43 45	-10 35
3	9490.5	12 36.8	-03 58	9 57.0	+17 53	0 47 41	-10 54
4	9491.5	12 40.4	-04 21	10 48.9	+13 02	0 51 38	-11 13
5	9492.5	12 44.0	-04 44	11 40.2	+07 24	0 55 34	-11 31
6	9493.5	12 47.7	-05 07	12 31.5	+01 14	0 59 31	-11 49
7	9494.5	12 51.3	-05 30	13 23.6	-05 07	1 03 27	-12 06
8	9495.5	12 55.0	-05 53	14 17.4	-11 18	1 07 24	-12 23
9	9496.5	12 58.7	-06 16	15 13.8	-16 52	1 11 21	-12 40
10	9497.5	13 02.3	-06 39	16 13.0	-21 24	1 15 17	-12 56
11	9498.5	13 06.0	-07 01	17 14.7	-24 34	1 19 14	-13 12
12	9499.5	13 09.7	-07 24	18 17.7	-26 05	1 23 10	-13 27
13	9500.5	13 13.4	-07 46	19 20.3	-25 53	1 27 07	-13 42
14	9501.5	13 17.1	-08 09	20 20.6	-24 05	1 31 03	-13 56
15	9502.5	13 20.8	-08 31	21 17.6	-20 57	1 35 00	-14 10
16	9503.5	13 24.5	-08 53	22 10.8	-16 46	1 38 56	-14 23
17	9504.5	13 28.3	-09 15	23 00.7	-11 51	1 42 53	-14 36
18	9505.5	13 32.0	-09 37	23 48.0	-06 31	1 46 50	-14 48
19	9506.5	13 35.8	-09 59	0 33.6	-01 00	1 50 46	-14 60
20	9507.5	13 39.5	-10 20	1 18.3	+04 30	1 54 43	-15 10
21	9508.5	13 43.3	-10 42	2 03.1	+09 44	1 58 39	-15 21
22	9509.5	13 47.1	-11 03	2 48.6	+14 33	2 02 36	-15 30
23	9510.5	13 50.9	-11 24	3 35.5	+18 45	2 06 32	-15 39
24	9511.5	13 54.7	-11 45	4 24.1	+22 10	2 10 29	-15 47
25	9512.5	13 58.5	-12 06	5 14.5	+24 38	2 14 25	-15 55
26	9513.5	14 02.3	-12 26	6 06.5	+26 01	2 18 22	-16 01
27	9514.5	14 06.2	-12 47	6 59.5	+26 14	2 22 19	-16 07
28	9515.5	14 10.0	-13 07	7 52.7	+25 13	2 26 15	-16 13
29	9516.5	14 13.9	-13 27	8 45.5	+22 59	2 30 12	-16 17
30	9517.5	14 17.8	-13 47	9 37.4	+19 37	2 34 08	-16 21
31	9518.5	14 21.7	-14 06	10 28.3	+15 13	2 38 05	-16 24

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	9519.5	14 25.6	-14 26	11 18.7	+09 58	2 42 01	-16 26
2	9520.5	14 29.5	-14 45	12 09.1	+04 03	2 45 58	-16 27
3	9521.5	14 33.4	-15 03	13 00.4	-02 16	2 49 54	-16 27
4	9522.5	14 37.4	-15 22	13 53.6	-08 38	2 53 51	-16 27
5	9523.5	14 41.3	-15 40	14 49.6	-14 39	2 57 48	-16 26
6	9524.5	14 45.3	-15 59	15 49.1	-19 49	3 01 44	-16 24
7	9525.5	14 49.3	-16 16	16 52.0	-23 42	3 05 41	-16 21
8	9526.5	14 53.3	-16 34	17 57.1	-25 53	3 09 37	-16 17
9	9527.5	14 57.3	-16 51	19 02.2	-26 14	3 13 34	-16 13
10	9528.5	15 01.4	-17 08	20 05.1	-24 50	3 17 30	-16 07
11	9529.5	15 05.4	-17 25	21 04.2	-21 56	3 21 27	-16 01
12	9530.5	15 09.5	-17 41	21 59.0	-17 55	3 25 23	-15 54
13	9531.5	15 13.5	-17 58	22 49.7	-13 08	3 29 20	-15 46
14	9532.5	15 17.6	-18 13	23 37.3	-07 52	3 33 17	-15 38
15	9533.5	15 21.7	-18 29	0 22.7	-02 24	3 37 13	-15 28
16	9534.5	15 25.8	-18 44	1 07.1	+03 05	3 41 10	-15 18
17	9535.5	15 30.0	-18 59	1 51.3	+08 22	3 45 06	-15 07
18	9536.5	15 34.1	-19 13	2 36.2	+13 18	3 49 03	-14 55
19	9537.5	15 38.3	-19 27	3 22.5	+17 41	3 52 59	-14 42
20	9538.5	15 42.4	-19 41	4 10.5	+21 20	3 56 56	-14 28
21	9539.5	15 46.6	-19 54	5 00.5	+24 06	4 00 52	-14 14
22	9540.5	15 50.8	-20 08	5 52.2	+25 48	4 04 49	-13 59
23	9541.5	15 55.0	-20 20	6 44.9	+26 20	4 08 46	-13 42
24	9542.5	15 59.3	-20 33	7 37.9	+25 40	4 12 42	-13 26
25	9543.5	16 03.5	-20 44	8 30.3	+23 48	4 16 39	-13 08
26	9544.5	16 07.7	-20 56	9 21.6	+20 49	4 20 35	-12 50
27	9545.5	16 12.0	-21 07	10 11.6	+16 50	4 24 32	-12 30
28	9546.5	16 16.3	-21 18	11 00.6	+12 00	4 28 28	-12 11
29	9547.5	16 20.6	-21 28	11 49.2	+06 28	4 32 25	-11 50
30	9548.5	16 24.9	-21 38	12 38.5	+00 28	4 36 21	-11 29

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	9549.5	16 29.2	-21 48	13 29.3	-05 46	4 40 18	-11 07
2	9550.5	16 33.5	-21 57	14 23.0	-11 54	4 44 15	-10 44
3	9551.5	16 37.8	-22 06	15 20.5	-17 30	4 48 11	-10 21
4	9552.5	16 42.2	-22 14	16 22.2	-22 04	4 52 08	-09 57
5	9553.5	16 46.5	-22 22	17 27.7	-25 08	4 56 04	-09 32
6	9554.5	16 50.9	-22 29	18 35.0	-26 19	5 00 01	-09 07
7	9555.5	16 55.2	-22 36	19 41.4	-25 34	5 03 57	-08 41
8	9556.5	16 59.6	-22 43	20 44.3	-23 05	5 07 54	-08 15
9	9557.5	17 04.0	-22 49	21 42.4	-19 16	5 11 50	-07 49
10	9558.5	17 08.4	-22 54	22 35.8	-14 32	5 15 47	-07 22
11	9559.5	17 12.8	-23 00	23 25.1	-09 16	5 19 44	-06 55
12	9560.5	17 17.2	-23 04	0 11.6	-03 45	5 23 40	-06 27
13	9561.5	17 21.6	-23 09	0 56.4	+01 46	5 27 37	-05 59
14	9562.5	17 26.0	-23 12	1 40.5	+07 07	5 31 33	-05 30
15	9563.5	17 30.5	-23 16	2 25.0	+12 08	5 35 30	-05 02
16	9564.5	17 34.9	-23 19	3 10.6	+16 38	5 39 26	-04 33
17	9565.5	17 39.3	-23 21	3 58.0	+20 28	5 43 23	-04 04
18	9566.5	17 43.7	-23 23	4 47.4	+23 28	5 47 19	-03 34
19	9567.5	17 48.2	-23 25	5 38.8	+25 27	5 51 16	-03 05
20	9568.5	17 52.6	-23 26	6 31.5	+26 17	5 55 13	-02 35
21	9569.5	17 57.0	-23 26	7 24.7	+25 54	5 59 09	-02 06
22	9570.5	18 01.5	-23 26	8 17.4	+24 19	6 03 06	-01 36
23	9571.5	18 05.9	-23 26	9 08.9	+21 35	6 07 02	-01 06
24	9572.5	18 10.4	-23 25	9 58.8	+17 51	6 10 59	-00 37
25	9573.5	18 14.8	-23 24	10 47.3	+13 17	6 14 55	-00 07
26	9574.5	18 19.2	-23 22	11 34.9	+08 03	6 18 52	+00 23
27	9575.5	18 23.7	-23 20	12 22.3	+02 21	6 22 48	+00 52
28	9576.5	18 28.1	-23 17	13 10.8	-03 38	6 26 45	+01 22
29	9577.5	18 32.5	-23 14	14 01.3	-09 36	6 30 42	+01 51
30	9578.5	18 37.0	-23 10	14 55.3	-15 16	6 34 38	+02 20
31	9579.5	18 41.4	-23 06	15 53.5	-20 12	6 38 35	+02 49