

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
STYCZEŃ 2011									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	5 20	9 25	13 27	52	51	15 45 22	-22 50.4	31.5	-0.12
2	6 24	10 22	14 20	50	50	16 43 45	-24 07.1	31.3	-0.06
3	7 16	11 18	15 22	51	52	17 41 48	-24 00.7	31.0	-0.02
4	7 57	12 11	16 30	54	56	18 38 13	-22 35.4	30.7	-0.00
5	8 29	13 01	17 40	60	62	19 32 04	-20 01.8	30.4	0.00
6	8 55	13 48	18 50	66	69	20 22 56	-16 34.0	30.2	0.03
7	9 16	14 32	19 58	73	76	21 10 56	-12 26.8	29.9	0.07
8	9 34	15 13	21 05	80	84	21 56 36	- 7 53.8	29.7	0.13
9	9 50	15 54	22 10	88	92	22 40 39	- 3 06.9	29.6	0.20
10	10 07	16 34	23 15	96	100	23 23 54	1 44.2	29.5	0.28
11	10 24	17 16	—	103	—	0 07 14	6 30.7	29.5	0.36
12	10 43	17 58	0 21	110	107	0 51 32	11 04.0	29.7	0.46
13	11 05	18 44	1 28	117	114	1 37 40	15 15.0	29.9	0.55
14	11 33	19 33	2 36	123	121	2 26 24	18 52.8	30.2	0.65
15	12 08	20 25	3 45	127	126	3 18 18	21 44.6	30.6	0.74
16	12 54	21 21	4 50	129	129	4 13 29	23 36.2	31.0	0.82
17	13 53	22 19	5 49	129	129	5 11 31	24 13.2	31.5	0.90
18	15 03	23 18	6 39	126	127	6 11 21	23 25.1	31.9	0.95
19	16 22	—	7 19	120	122	7 11 33	21 08.5	32.3	0.99
20	17 46	0 15	7 52	112	115	8 10 49	17 29.4	32.7	-1.00
21	19 10	1 11	8 19	103	107	9 08 21	12 42.7	32.9	-0.98
22	20 34	2 04	8 42	93	98	10 04 01	7 09.0	32.9	-0.94
23	21 57	2 56	9 03	83	88	10 58 15	1 11.6	32.9	-0.87
24	23 19	3 48	9 25	74	79	11 51 44	- 4 46.5	32.7	-0.78
25	—	4 39	9 48	—	70	12 45 20	-10 23.9	32.4	-0.67
26	0 39	5 32	10 14	65	62	13 39 44	-15 21.6	32.1	-0.56
27	1 58	6 26	10 46	58	56	14 35 21	-19 23.5	31.8	-0.45
28	3 11	7 21	11 26	53	52	15 32 11	-22 16.5	31.5	-0.34
29	4 17	8 17	12 15	51	50	16 29 42	-23 52.0	31.2	-0.25
30	5 12	9 12	13 13	51	51	17 26 59	-24 06.9	30.9	-0.16
31	5 56	10 05	14 18	53	54	18 22 57	-23 04.0	30.6	-0.09

nów:	4	9 ^h 03 ^m	2	14.6 ^h	Merkury	4°N
pierwsza kwadra:	12	11 ^h 31 ^m	5	0.8 ^h	Mars	3°S
pełnia:	19	21 ^h 21 ^m	8	0.4 ^h	Neptun	5°S
ostatnia kwadra:	26	12 ^h 57 ^m	10	15.0 ^h	Uran	7°S
			10	17.0 ^h	Jowisz	7°S
apogeum:	10	5 ^h 39 ^m	25	9.8 ^h	Saturn	8°N
perygeum:	22	0 ^h 11 ^m				