

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
STYCZEŃ 2015									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	13 42	21 19	3 59	116	114	3 15 54	15 06.3	31.2	0.82
2	14 24	22 11	5 03	119	118	4 09 50	17 12.3	30.9	0.90
3	15 12	23 02	6 00	120	119	5 03 51	18 23.2	30.6	0.95
4	16 05	23 53	6 52	119	119	5 57 30	18 37.1	30.4	0.98
5	17 03	—	7 36	117	118	6 50 11	17 55.6	30.1	1.00
6	18 03	0 42	8 14	113	115	7 41 27	16 23.7	29.9	-0.99
7	19 04	1 29	8 46	109	111	8 31 03	14 08.7	29.7	-0.97
8	20 05	2 14	9 15	103	106	9 18 57	11 19.0	29.6	-0.93
9	21 06	2 58	9 41	98	100	10 05 23	8 03.4	29.5	-0.87
10	22 07	3 40	10 05	92	94	10 50 48	4 30.1	29.5	-0.80
11	23 09	4 22	10 28	85	89	11 35 43	0 46.7	29.5	-0.72
12	—	5 05	10 52	—	83	12 20 48	- 2 59.5	29.7	-0.63
13	0 12	5 49	11 17	79	77	13 06 44	- 6 41.2	29.9	-0.54
14	1 15	6 34	11 46	74	71	13 54 13	-10 10.4	30.2	-0.44
15	2 20	7 22	12 18	68	67	14 43 54	-13 17.7	30.7	-0.35
16	3 25	8 13	12 57	64	63	15 36 20	-15 52.2	31.1	-0.25
17	4 29	9 08	13 44	61	61	16 31 44	-17 41.2	31.6	-0.16
18	5 30	10 05	14 41	60	60	17 29 54	-18 32.1	32.1	-0.09
19	6 25	11 04	15 47	61	62	18 30 09	-18 14.9	32.6	-0.04
20	7 14	12 04	17 00	64	66	19 31 22	-16 44.9	33.0	-0.01
21	7 56	13 03	18 18	69	72	20 32 23	-14 05.7	33.2	0.00
22	8 32	14 00	19 38	76	79	21 32 14	-10 29.0	33.2	0.03
23	9 05	14 55	20 57	83	86	22 30 27	- 6 12.6	33.1	0.09
24	9 35	15 49	22 15	90	94	23 27 01	- 1 36.4	32.9	0.17
25	10 05	16 41	23 30	97	101	0 22 13	2 59.8	32.5	0.26
26	10 36	17 33	—	104	—	1 16 31	7 19.4	32.1	0.37
27	11 08	18 25	0 42	110	108	2 10 22	11 08.4	31.7	0.48
28	11 44	19 16	1 51	114	113	3 04 03	14 16.3	31.3	0.59
29	12 25	20 08	2 56	118	117	3 57 43	16 35.3	30.9	0.69
30	13 10	20 59	3 55	119	119	4 51 14	18 00.7	30.6	0.78
31	14 01	21 49	4 48	119	119	5 44 20	18 30.6	30.3	0.86

pełnia:	5 I	4 ^h 53 ^m	8 I	8.4 ^h	Jowisz	5°N
ostatnia kwadra:	13 I	9 ^h 46 ^m	16 I	11.5 ^h	Saturn	2°S
nów:	20 I	13 ^h 14 ^m	21 I	17.7 ^h	Merkury	3°S
pierwsza kwadra:	27 I	4 ^h 48 ^m	22 I	5.0 ^h	Wenus	6°S
			23 I	0.8 ^h	Neptun	4°S
apogeum:	9 I	18 ^h 18 ^m	23 I	4.8 ^h	Mars	4°S
perygeum:	21 I	20 ^h 07 ^m	25 I	11.9 ^h	Uran	0.6°S