

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
SIERPIEŃ 2016									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	3 02	10 50	18 32	119	117	7 05 35	18 10.4	31.8	-0.04
2	4 06	11 44	19 13	116	114	8 02 46	16 46.4	31.5	-0.01
3	5 13	12 36	19 48	112	109	8 57 53	14 27.6	31.2	0.00
4	6 21	13 25	20 18	106	103	9 50 34	11 26.4	30.9	0.01
5	7 27	14 12	20 45	100	97	10 40 55	7 56.1	30.5	0.05
6	8 32	14 56	21 10	94	91	11 29 15	4 09.2	30.2	0.10
7	9 36	15 40	21 34	88	85	12 16 07	0 16.6	30.0	0.17
8	10 39	16 23	21 59	82	79	13 02 05	- 3 32.5	29.7	0.25
9	11 40	17 06	22 25	76	74	13 47 49	- 7 10.1	29.6	0.34
10	12 41	17 50	22 53	71	69	14 33 54	-10 29.2	29.6	0.43
11	13 41	18 36	23 26	66	65	15 20 53	-13 22.8	29.6	0.52
12	14 39	19 23	—	63	—	16 09 12	-15 44.0	29.7	0.62
13	15 35	20 12	0 03	61	62	16 59 09	-17 25.7	30.0	0.71
14	16 28	21 03	0 47	60	60	17 50 48	-18 20.8	30.3	0.79
15	17 16	21 55	1 38	61	61	18 44 00	-18 23.0	30.6	0.87
16	17 59	22 48	2 37	64	62	19 38 23	-17 28.0	31.0	0.93
17	18 37	23 41	3 42	69	66	20 33 25	-15 34.9	31.4	0.98
18	19 12	—	4 52	74	71	21 28 38	-12 46.9	31.8	1.00
19	19 43	0 34	6 05	81	77	22 23 43	- 9 12.1	32.1	-1.00
20	20 13	1 27	7 21	88	84	23 18 31	- 5 02.4	32.4	-0.97
21	20 43	2 19	8 37	95	92	0 13 11	- 0 33.0	32.5	-0.91
22	21 14	3 12	9 53	102	99	1 08 01	3 59.4	32.6	-0.84
23	21 47	4 05	11 09	108	106	2 03 21	8 17.7	32.5	-0.74
24	22 25	5 00	12 23	114	112	2 59 31	12 05.6	32.4	-0.63
25	23 08	5 55	13 34	117	116	3 56 35	15 08.8	32.3	-0.52
26	23 58	6 51	14 39	119	119	4 54 25	17 16.1	32.1	-0.41
27	—	7 47	15 38	—	119	5 52 30	18 20.0	31.8	-0.30
28	0 54	8 43	16 28	119	118	6 50 09	18 18.3	31.6	-0.20
29	1 55	9 37	17 11	117	115	7 46 39	17 13.6	31.3	-0.12
30	3 00	10 28	17 48	113	111	8 41 23	15 13.1	31.1	-0.06
31	4 06	11 18	18 19	109	105	9 34 04	12 27.3	30.8	-0.02

nów:	2 VIII	20 ^h 45 ^m	4 VIII	6.4 ^h	Wenus	3°N
pierwsza kwadra:	10 VIII	18 ^h 21 ^m	4 VIII	22.2 ^h	Merkury	0.6°N
pełnia:	18 VIII	9 ^h 27 ^m	6 VIII	3.6 ^h	Jowisz	0.2°N
ostatnia kwadra:	25 VIII	3 ^h 41 ^m	11 VIII	21.9 ^h	Mars	8°S
			12 VIII	11.8 ^h	Saturn	4°S
apogeum:	10 VIII	0 ^h 06 ^m	19 VIII	12.1 ^h	Neptun	1°S
perygeum:	22 VIII	1 ^h 22 ^m	22 VIII	10.0 ^h	Uran	3°N