

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
SIERPIEŃ 2012									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	18 56	23 54	3 44	67	63	19 41 15	-17 23.6	32.2	0.98
2	19 25	—	5 00	74	69	20 37 44	-13 45.6	31.9	1.00
3	19 50	0 45	6 15	81	77	21 31 17	-9 26.8	31.6	-0.99
4	20 13	1 33	7 28	89	85	22 22 15	-4 45.8	31.2	-0.96
5	20 35	2 20	8 39	96	93	23 11 11	0 01.1	30.8	-0.90
6	20 57	3 05	9 47	103	100	23 58 50	4 40.3	30.4	-0.84
7	21 20	3 49	10 54	109	107	0 45 54	9 00.7	30.1	-0.76
8	21 47	4 34	11 59	115	113	1 33 00	12 53.4	29.8	-0.67
9	22 17	5 19	13 02	120	118	2 20 42	16 10.7	29.7	-0.58
10	22 53	6 05	14 02	123	122	3 09 21	18 45.8	29.6	-0.48
11	23 35	6 53	14 58	124	124	3 59 07	20 32.3	29.6	-0.39
12	—	7 42	15 49	—	125	4 49 58	21 24.8	29.7	-0.30
13	0 25	8 31	16 34	124	123	5 41 39	21 19.3	29.9	-0.21
14	1 23	9 21	17 12	122	120	6 33 46	20 13.6	30.1	-0.14
15	2 26	10 11	17 45	118	115	7 25 53	18 08.7	30.4	-0.08
16	3 34	11 00	18 14	113	109	8 17 42	15 08.3	30.7	-0.03
17	4 45	11 49	18 40	106	102	9 09 03	11 19.7	31.1	-0.01
18	5 58	12 38	19 04	99	95	10 00 06	6 53.1	31.4	0.00
19	7 13	13 27	19 28	91	87	10 51 08	2 01.1	31.7	0.02
20	8 29	14 17	19 53	82	79	11 42 42	-3 01.3	31.9	0.07
21	9 45	15 08	20 20	74	71	12 35 20	-7 57.7	32.1	0.14
22	11 03	16 02	20 52	67	65	13 29 38	-12 30.4	32.2	0.22
23	12 19	16 57	21 30	61	59	14 25 57	-16 21.9	32.3	0.32
24	13 31	17 55	22 16	57	56	15 24 19	-19 15.6	32.3	0.43
25	14 36	18 54	23 12	55	55	16 24 16	-20 58.0	32.3	0.55
26	15 32	19 53	—	56	—	17 24 53	-21 20.8	32.2	0.66
27	16 18	20 50	0 17	59	57	18 24 57	-20 23.2	32.1	0.76
28	16 55	21 44	1 28	64	61	19 23 24	-18 11.3	31.9	0.85
29	17 26	22 36	2 42	71	67	20 19 32	-14 57.7	31.7	0.92
30	17 52	23 25	3 56	78	74	21 13 07	-10 58.1	31.5	0.97
31	18 16	—	5 09	85	81	22 04 22	-6 29.3	31.2	0.99

pełnia:	2 VIII	3 ^h 28 ^m	3 VIII	22.0 ^h	Neptun	6°S
ostatnia kwadra:	9 VIII	18 ^h 55 ^m	6 VIII	16.8 ^h	Uran	5°S
nów	17 VIII	15 ^h 54 ^m	11 VIII	20.5 ^h	Jowisz	0.1°N
pierwsza kwadra	24 VIII	13 ^h 53 ^m	13 VIII	19.8 ^h	Wenus	0.6°S
pełnia:	31 VIII	13 ^h 58 ^m	16 VIII	5.2 ^h	Merkury	4°N
			22 VIII	3.4 ^h	Saturn	6°N
apogeum:	10 VIII	10 ^h 53 ^m	22 VIII	7.9 ^h	Mars	2°N
perygeum:	23 VIII	19 ^h 40 ^m	31 VIII	1.4 ^h	Neptun	6°S