

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
WRZESIEŃ 2012									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	18 38	0 12	6 20	93	89	22 53 47	- 1 47.2	30.9	-1.00
2	19 00	0 58	7 29	100	97	23 41 56	2 53.8	30.6	-0.98
3	19 23	1 42	8 37	107	104	0 29 27	7 21.3	30.3	-0.94
4	19 49	2 27	9 43	113	110	1 16 54	11 24.6	30.0	-0.88
5	20 18	3 13	10 47	117	116	2 04 43	14 54.9	29.8	-0.81
6	20 51	3 59	11 49	121	120	2 53 16	17 44.7	29.6	-0.73
7	21 31	4 46	12 46	124	123	3 42 42	19 47.5	29.6	-0.65
8	22 17	5 34	13 39	124	124	4 33 00	20 58.3	29.6	-0.55
9	23 11	6 23	14 26	123	124	5 23 59	21 13.1	29.7	-0.46
10	—	7 12	15 07	—	121	6 15 24	20 30.0	29.9	-0.36
11	0 11	8 01	15 42	120	117	7 06 57	18 48.8	30.2	-0.27
12	1 16	8 50	16 13	115	112	7 58 23	16 11.9	30.6	-0.19
13	2 25	9 39	16 40	109	105	8 49 39	12 44.2	31.0	-0.11
14	3 37	10 28	17 06	102	98	9 40 52	8 33.3	31.4	-0.06
15	4 52	11 18	17 30	94	90	10 32 21	3 49.8	31.8	-0.02
16	6 08	12 08	17 55	86	82	11 24 33	- 1 12.2	32.2	-0.00
17	7 27	13 00	18 23	78	74	12 18 01	- 6 16.2	32.4	0.01
18	8 46	13 55	18 54	70	67	13 13 14	-11 02.9	32.6	0.05
19	10 05	14 51	19 31	63	61	14 10 29	-15 12.2	32.7	0.11
20	11 20	15 50	20 15	58	57	15 09 42	-18 25.2	32.6	0.20
21	12 29	16 49	21 09	56	56	16 10 20	-20 26.7	32.5	0.30
22	13 27	17 48	22 11	56	57	17 11 21	-21 08.2	32.3	0.41
23	14 16	18 45	23 20	59	60	18 11 34	-20 28.8	32.1	0.52
24	14 55	19 40	—	63	—	19 09 55	-18 35.3	31.8	0.63
25	15 28	20 31	0 32	69	65	20 05 47	-15 39.6	31.6	0.73
26	15 55	21 20	1 44	75	72	20 59 03	-11 56.7	31.3	0.82
27	16 19	22 07	2 56	83	79	21 49 58	- 7 41.7	31.0	0.90
28	16 42	22 52	4 06	90	86	22 39 05	- 3 09.3	30.8	0.95
29	17 04	23 37	5 15	97	94	23 27 00	1 27.1	30.5	0.99
30	17 27	—	6 22	104	101	0 14 21	5 55.2	30.2	1.00

ostatnia kwadra:	8 IX	13 ^h 15 ^m		2 IX	23.8 ^h	Uran	5°S
nów	16 IX	2 ^h 11 ^m		8 IX	11.1 ^h	Jowisz	0.6°N
pierwsza kwadra	22 IX	19 ^h 41 ^m		12 IX	17.2 ^h	Wenus	4°N
pełnia:	30 IX	3 ^h 18 ^m		16 IX	16.0 ^h	Merkury	6°N
				18 IX	14.5 ^h	Saturn	5°N
apogeum:	7 IX	6 ^h 01 ^m		19 IX	20.7 ^h	Mars	0.2°N
perygeum:	19 IX	2 ^h 53 ^m		27 IX	11.0 ^h	Neptun	6°S
				30 IX	2.2 ^h	Uran	5°S