

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LUTY 2012									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	11 03	19 04	2 13	123	122	3 09 54	19 42.5	29.6	0.58
2	11 43	19 54	3 13	126	125	4 00 26	21 30.7	29.8	0.67
3	12 32	20 45	4 07	126	126	4 52 42	22 21.2	30.0	0.76
4	13 29	21 37	4 56	125	125	5 46 18	22 07.8	30.4	0.84
5	14 35	22 30	5 38	121	122	6 40 41	20 46.9	30.7	0.90
6	15 46	23 22	6 13	115	118	7 35 09	18 18.9	31.1	0.96
7	17 01	—	6 44	108	111	8 29 14	14 49.1	31.5	0.99
8	18 19	0 13	7 10	100	104	9 22 41	10 27.2	31.9	-1.00
9	19 37	1 04	7 34	92	96	10 15 35	5 27.3	32.1	-0.98
10	20 56	1 54	7 58	83	87	11 08 20	0 06.1	32.3	-0.94
11	22 16	2 45	8 22	74	79	12 01 31	- 5 17.7	32.5	-0.88
12	23 35	3 38	8 48	66	71	12 55 43	-10 24.8	32.5	-0.79
13	—	4 32	9 19	—	64	13 51 27	-14 56.0	32.4	-0.69
14	0 53	5 28	9 56	60	58	14 48 58	-18 33.4	32.3	-0.58
15	2 06	6 25	10 41	56	55	15 48 02	-21 02.3	32.2	-0.47
16	3 12	7 24	11 35	54	54	16 47 56	-22 12.7	32.0	-0.36
17	4 07	8 21	12 39	54	55	17 47 35	-22 01.1	31.8	-0.26
18	4 51	9 17	13 48	58	59	18 45 49	-20 31.2	31.5	-0.17
19	5 27	10 10	15 00	63	65	19 41 47	-17 53.2	31.3	-0.09
20	5 56	10 59	16 12	69	72	20 35 05	-14 21.0	31.0	-0.04
21	6 21	11 47	17 23	76	79	21 25 48	-10 10.3	30.8	-0.01
22	6 43	12 32	18 32	83	87	22 14 19	- 5 36.3	30.5	0.00
23	7 03	13 15	19 40	91	94	23 01 13	- 0 53.1	30.2	0.01
24	7 23	13 58	20 46	98	102	23 47 10	3 47.0	30.0	0.04
25	7 44	14 41	21 52	105	109	0 32 51	8 13.4	29.8	0.09
26	8 06	15 25	22 56	111	115	1 18 50	12 16.5	29.6	0.15
27	8 32	16 10	23 59	117	120	2 05 40	15 47.9	29.5	0.23
28	9 03	16 57	—	121	—	2 53 44	18 39.6	29.5	0.31
29	9 39	17 45	0 59	124	123	3 43 17	20 44.2	29.6	0.40

pełnia:	7 II	21 ^h 54 ^m	10 II	11.6 ^h	Mars	10°N
ostatnia kwadra:	14 II	17 ^h 04 ^m	13 II	0.8 ^h	Saturn	6°N
nów:	21 II	22 ^h 35 ^m	21 II	22.8 ^h	Neptun	6°S
			23 II	5.9 ^h	Merkury	6°S
			24 II	12.9 ^h	Uran	6°S
perygeum:	11 II	18 ^h 33 ^m	25 II	21.8 ^h	Wenus	3°S
apogeum:	27 II	14 ^h 03 ^m	27 II	6.4 ^h	Jowisz	4°S