

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LIPIEC 2011									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	3 58	12 11	20 14	126	123	6 18 30	22 22.8	31.2	-0.00
2	5 09	13 05	20 48	121	117	7 15 21	20 07.8	31.5	0.01
3	6 25	13 58	21 16	115	110	8 11 13	16 42.8	31.8	0.03
4	7 44	14 50	21 40	107	102	9 05 41	12 19.6	32.0	0.08
5	9 02	15 40	22 02	98	93	9 58 48	7 14.2	32.2	0.16
6	10 21	16 30	22 24	89	84	10 51 03	1 44.0	32.3	0.25
7	11 41	17 20	22 47	80	76	11 43 11	- 3 52.6	32.3	0.36
8	13 00	18 12	23 12	71	68	12 36 03	- 9 17.4	32.3	0.47
9	14 20	19 06	23 42	63	61	13 30 25	-14 11.9	32.3	0.58
10	15 38	20 02	—	57	—	14 26 46	-18 18.0	32.2	0.69
11	16 50	21 00	0 20	53	55	15 25 08	-21 18.9	32.1	0.79
12	17 54	21 58	1 06	52	52	16 24 54	-23 01.5	31.9	0.88
13	18 46	22 55	2 03	53	52	17 24 54	-23 19.2	31.7	0.94
14	19 27	23 50	3 09	57	54	18 23 43	-22 13.3	31.4	0.98
15	19 59	—	4 19	62	59	19 20 09	-19 53.3	31.1	1.00
16	20 25	0 41	5 32	69	65	20 13 33	-16 33.7	30.8	-0.99
17	20 47	1 29	6 43	76	72	21 03 53	-12 30.9	30.5	-0.97
18	21 06	2 14	7 52	84	80	21 51 32	- 8 00.6	30.2	-0.92
19	21 24	2 56	8 59	91	88	22 37 12	- 3 16.3	29.9	-0.86
20	21 42	3 38	10 05	99	95	23 21 39	1 30.6	29.7	-0.79
21	22 00	4 19	11 10	106	103	0 05 43	6 10.4	29.6	-0.70
22	22 22	5 01	12 15	112	110	0 50 13	10 34.6	29.6	-0.62
23	22 46	5 45	13 21	118	116	1 35 56	14 34.6	29.6	-0.52
24	23 17	6 30	14 26	123	122	2 23 31	18 01.5	29.7	-0.43
25	23 55	7 19	15 30	126	126	3 13 28	20 45.1	30.0	-0.33
26	—	8 10	16 29	—	128	4 05 56	22 34.6	30.3	-0.24
27	0 42	9 03	17 23	128	127	5 00 44	23 19.4	30.7	-0.16
28	1 41	9 58	18 08	127	125	5 57 10	22 51.0	31.1	-0.09
29	2 49	10 53	18 46	123	120	6 54 20	21 05.3	31.5	-0.04
30	4 04	11 48	19 17	118	113	7 51 15	18 04.6	31.9	-0.01
31	5 23	12 41	19 43	110	105	8 47 14	13 57.7	32.2	0.00

nów:	1 VII	8 ^h 54 ^m	3 VII	2.2 ^h	Merkury	5°N
pierwsza kwadra:	8 VII	6 ^h 29 ^m	8 VII	3.6 ^h	Saturn	8°N
pełnia:	15 VII	6 ^h 40 ^m	18 VII	10.0 ^h	Neptun	6°S
ostatnia kwadra:	23 VII	5 ^h 02 ^m	21 VII	6.6 ^h	Uran	6°S
nów:	30 VII	18 ^h 40 ^m	24 VII	0.6 ^h	Jowisz	5°S
			27 VII	16.9 ^h	Mars	0.5°N
perygeum:	7 VII	14 ^h 05 ^m	30 VII	12.0 ^h	Wenus	4°N
apogeum:	21 VII	22 ^h 48 ^m				