

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LUTY 2011									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	6 31	10 55	15 27	58	60	19 16 45	-20 51.8	30.3	-0.04
2	6 58	11 43	16 36	63	66	20 07 55	-17 42.1	30.1	-0.01
3	7 21	12 27	17 44	70	73	20 56 28	-13 48.5	29.9	-0.00
4	7 40	13 10	18 51	77	81	21 42 43	- 9 24.3	29.7	0.01
5	7 57	13 51	19 57	85	89	22 27 15	- 4 41.6	29.6	0.03
6	8 13	14 32	21 02	93	97	23 10 47	0 08.6	29.5	0.08
7	8 30	15 12	22 08	100	104	23 54 05	4 56.5	29.4	0.14
8	8 48	15 54	23 13	107	111	0 37 54	9 33.2	29.5	0.21
9	9 09	16 38	—	114	—	1 23 01	13 49.4	29.6	0.29
10	9 34	17 24	0 20	120	118	2 10 10	17 35.5	29.8	0.38
11	10 05	18 14	1 27	125	123	2 59 54	20 40.7	30.1	0.47
12	10 45	19 07	2 32	128	127	3 52 34	22 52.7	30.5	0.57
13	11 35	20 02	3 33	129	129	4 48 03	23 59.1	30.9	0.67
14	12 38	20 59	4 26	128	128	5 45 47	23 48.6	31.4	0.76
15	13 52	21 57	5 10	123	125	6 44 48	22 14.0	32.0	0.85
16	15 13	22 53	5 47	116	119	7 43 57	19 15.1	32.5	0.92
17	16 38	23 49	6 17	108	111	8 42 20	14 59.6	32.9	0.97
18	18 04	—	6 42	98	103	9 39 32	9 43.3	33.2	1.00
19	19 30	0 43	7 05	88	93	10 35 38	3 47.9	33.3	-0.99
20	20 55	1 36	7 28	78	83	11 31 07	- 2 21.6	33.3	-0.96
21	22 20	2 30	7 51	69	74	12 26 38	- 8 19.7	33.1	-0.90
22	23 42	3 24	8 18	61	65	13 22 46	-13 42.8	32.8	-0.81
23	—	4 19	8 49	—	59	14 19 52	-18 10.4	32.4	-0.71
24	0 59	5 16	9 27	55	53	15 17 52	-21 27.4	31.9	-0.61
25	2 09	6 12	10 13	51	51	16 16 14	-23 24.4	31.5	-0.50
26	3 08	7 08	11 09	51	51	17 14 03	-23 59.0	31.0	-0.39
27	3 55	8 01	12 11	52	53	18 10 20	-23 14.6	30.7	-0.30
28	4 33	8 52	13 18	56	58	19 04 20	-21 19.9	30.3	-0.21

nów:	3 II	2 ^h 31 ^m	1 II	18.3 ^h	Merkury	4°S
pierwsza kwadra:	11 II	7 ^h 18 ^m	3 II	6.3 ^h	Mars	5°S
pełnia:	18 II	8 ^h 36 ^m	4 II	9.8 ^h	Neptun	5°S
ostatnia kwadra:	24 II	23 ^h 26 ^m	7 II	0.4 ^h	Uran	6°S
			7 II	10.5 ^h	Jowisz	7°S
apogeum:	6 II	23 ^h 14 ^m	21 II	16.6 ^h	Saturn	8°N
perygeum:	19 II	7 ^h 28 ^m				