

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
MAJ 2013									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	0 20	5 05	9 56	63	65	19 29 51	-16 59.5	32.4	-0.67
2	0 57	6 00	11 10	68	71	20 26 56	-13 48.7	32.1	-0.55
3	1 28	6 51	12 24	75	78	21 21 09	-9 55.7	31.7	-0.44
4	1 54	7 40	13 36	82	85	22 12 54	-5 36.7	31.4	-0.34
5	2 19	8 27	14 46	89	92	23 02 51	-1 06.8	31.1	-0.24
6	2 43	9 13	15 54	96	100	23 51 42	3 21.3	30.8	-0.16
7	3 08	9 59	17 01	103	106	0 40 09	7 35.9	30.5	-0.09
8	3 34	10 45	18 07	109	112	1 28 44	11 26.6	30.2	-0.04
9	4 03	11 32	19 10	114	117	2 17 50	14 43.9	30.0	-0.01
10	4 36	12 20	20 10	118	120	3 07 35	17 19.8	29.8	-0.00
11	5 14	13 08	21 05	121	122	3 57 56	19 07.5	29.6	0.01
12	5 58	13 56	21 54	122	122	4 48 35	20 02.8	29.5	0.04
13	6 47	14 44	22 37	122	121	5 39 10	20 04.1	29.5	0.08
14	7 42	15 31	23 13	120	118	6 29 15	19 12.1	29.5	0.14
15	8 40	16 17	23 45	116	114	7 18 34	17 29.9	29.5	0.21
16	9 42	17 03	—	112	—	8 07 02	15 02.4	29.7	0.29
17	10 46	17 48	0 13	106	109	8 54 47	11 55.1	29.9	0.38
18	11 51	18 33	0 38	100	103	9 42 12	8 14.5	30.2	0.48
19	12 59	19 18	1 02	93	96	10 29 48	4 07.5	30.6	0.58
20	14 09	20 06	1 26	85	89	11 18 18	-0 17.6	31.1	0.68
21	15 22	20 56	1 51	78	82	12 08 27	-4 50.7	31.6	0.78
22	16 38	21 49	2 19	71	75	13 01 03	-9 18.4	32.1	0.86
23	17 55	22 46	2 51	64	68	13 56 46	-13 23.9	32.6	0.93
24	19 12	23 47	3 30	60	62	14 55 54	-16 47.4	33.0	0.98
25	20 22	—	4 18	58	59	15 58 07	-19 08.1	33.2	1.00
26	21 24	0 50	5 16	58	57	17 02 18	-20 09.2	33.3	-0.99
27	22 15	1 53	6 24	61	59	18 06 44	-19 43.0	33.3	-0.95
28	22 56	2 54	7 38	66	63	19 09 37	-17 53.6	33.0	-0.88
29	23 30	3 52	8 55	72	68	20 09 40	-14 54.8	32.7	-0.80
30	23 59	4 46	10 11	79	75	21 06 24	-11 05.9	32.3	-0.70
31	—	5 37	11 25	—	83	22 00 02	-6 46.4	31.8	-0.59

ostatnia kwadra:	2 V	11 ^h 14 ^m	4 V	7.5 ^h	Neptun	6°S
nów:	10 V	0 ^h 29 ^m	7 V	0.0 ^h	Uran	4°S
pierwsza kwadra:	18 V	4 ^h 35 ^m	9 V	14.2 ^h	Mars	0.4°S
pełnia:	25 V	4 ^h 25 ^m	9 V	19.4 ^h	Merkury	0.3°S
ostatnia kwadra:	31 V	18 ^h 58 ^m	11 V	0.3 ^h	Wenus	1.4°N
			12 V	13.2 ^h	Jowisz	3°N
apogeum:	13 V	13 ^h 32 ^m	23 V	9.6 ^h	Saturn	4°N
peryeum:	26 V	1 ^h 46 ^m	29 V	6.7 ^h	Mars	6°N
			31 V	21.4 ^h	Neptun	7°S