

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
MAJ 2015									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	16 36	22 22	3 34	82	85	12 17 24	- 2 22.2	29.6	0.91
2	17 39	23 07	3 59	76	79	13 03 24	- 6 03.0	29.8	0.96
3	18 43	23 53	4 27	71	74	13 50 38	- 9 31.9	30.0	0.99
4	19 46	—	4 57	66	69	14 39 33	-12 39.4	30.2	1.00
5	20 48	0 42	5 32	63	65	15 30 23	-15 15.1	30.5	-0.99
6	21 48	1 32	6 13	61	62	16 23 10	-17 08.7	30.7	-0.96
7	22 42	2 25	7 01	61	61	17 17 40	-18 10.8	31.0	-0.91
8	23 31	3 19	7 56	62	61	18 13 22	-18 14.9	31.3	-0.85
9	—	4 13	8 59	—	63	19 09 40	-17 17.7	31.5	-0.76
10	0 14	5 07	10 07	66	67	20 05 57	-15 20.6	31.8	-0.66
11	0 51	6 01	11 18	70	73	21 01 48	-12 29.1	32.1	-0.55
12	1 25	6 54	12 33	76	79	21 57 04	- 8 52.4	32.3	-0.44
13	1 56	7 47	13 48	83	86	22 51 56	- 4 42.4	32.5	-0.33
14	2 26	8 39	15 05	90	94	23 46 43	- 0 13.6	32.6	-0.22
15	2 56	9 33	16 22	97	101	0 41 50	4 18.0	32.6	-0.13
16	3 28	10 27	17 38	104	108	1 37 42	8 35.1	32.6	-0.06
17	4 03	11 22	18 51	110	113	2 34 28	12 20.7	32.4	-0.02
18	4 43	12 18	20 01	115	117	3 32 01	15 19.7	32.2	-0.00
19	5 28	13 14	21 03	118	119	4 29 51	17 20.7	31.8	0.01
20	6 19	14 09	21 57	119	119	5 27 14	18 18.3	31.5	0.04
21	7 15	15 02	22 44	119	117	6 23 20	18 12.6	31.0	0.10
22	8 15	15 52	23 22	116	114	7 17 31	17 09.1	30.6	0.17
23	9 16	16 40	23 56	113	—	8 09 24	15 16.4	30.3	0.25
24	10 18	17 26	—	108	105	8 59 01	12 44.2	30.0	0.34
25	11 19	18 10	0 24	103	105	9 46 38	9 42.0	29.7	0.43
26	12 21	18 52	0 50	97	99	10 32 47	6 18.4	29.6	0.53
27	13 22	19 35	1 14	91	94	11 18 04	2 41.1	29.6	0.62
28	14 24	20 17	1 38	85	88	12 03 08	- 1 02.8	29.6	0.71
29	15 26	21 01	2 02	79	82	12 48 40	- 4 46.1	29.7	0.79
30	16 29	21 47	2 28	73	76	13 35 18	- 8 21.0	30.0	0.87
31	17 33	22 35	2 57	68	71	14 23 37	-11 38.5	30.2	0.92

pełnia:	4 V	3 ^h 42 ^m	5 V	15.9 ^h	Saturn	2°S
ostatnia kwadra:	11 V	10 ^h 36 ^m	12 V	21.3 ^h	Neptun	3.5°S
nów:	18 V	4 ^h 13 ^m	15 V	12.0 ^h	Uran	0.2°N
pierwsza kwadra:	25 V	17 ^h 19 ^m	18 V	16.0 ^h	Mars	5°N
			19 V	6.9 ^h	Merkury	6°N
perygeum:	15 V	0 ^h 24 ^m	21 V	19.0 ^h	Wenus	8°N
apogeum:	26 V	22 ^h 14 ^m	24 V	7.2 ^h	Jowisz	5°N