

KSIĘZYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
MAJ 2012									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	13 36	20 06	1 58	95	99	10 03 00	6 22.7	31.7	0.67
2	14 54	20 56	2 21	87	91	10 54 36	1 20.8	32.2	0.77
3	16 14	21 49	2 46	78	83	11 47 44	- 3 55.3	32.7	0.86
4	17 37	22 46	3 13	70	75	12 43 08	- 9 07.3	33.1	0.93
5	19 00	23 45	3 44	63	67	13 41 26	-13 53.0	33.4	0.98
6	20 21	—	4 22	57	60	14 42 43	-17 47.7	33.5	1.00
7	21 34	0 47	5 10	55	56	15 46 25	-20 28.5	33.4	-0.99
8	22 35	1 51	6 07	55	55	16 51 04	-21 39.9	33.2	-0.95
9	23 23	2 53	7 14	58	56	17 54 47	-21 18.4	32.8	-0.88
10	—	3 52	8 27	—	60	18 55 52	-19 32.4	32.3	-0.80
11	0 01	4 47	9 40	63	66	19 53 20	-16 38.6	31.8	-0.70
12	0 31	5 38	10 53	70	72	20 47 00	-12 56.0	31.3	-0.60
13	0 57	6 25	12 03	76	80	21 37 22	- 8 42.5	30.8	-0.49
14	1 19	7 09	13 11	84	87	22 25 09	- 4 12.9	30.4	-0.39
15	1 39	7 52	14 17	91	95	23 11 16	0 20.7	30.1	-0.30
16	2 00	8 35	15 22	98	102	23 56 34	4 48.5	29.8	-0.21
17	2 21	9 18	16 26	105	108	0 41 50	9 01.6	29.6	-0.14
18	2 44	10 01	17 30	111	114	1 27 42	12 51.6	29.5	-0.08
19	3 10	10 46	18 32	116	119	2 14 40	16 10.1	29.4	-0.04
20	3 41	11 33	19 32	121	123	3 03 01	18 48.7	29.4	-0.01
21	4 18	12 21	20 28	124	125	3 52 46	20 39.5	29.4	0.00
22	5 01	13 10	21 18	125	125	4 43 38	21 36.1	29.5	0.01
23	5 52	13 59	22 01	124	123	5 35 11	21 34.1	29.7	0.04
24	6 50	14 48	22 38	122	120	6 26 50	20 32.3	29.8	0.08
25	7 53	15 37	23 09	118	115	7 18 06	18 32.5	30.1	0.14
26	9 00	16 24	23 36	113	109	8 08 42	15 39.5	30.4	0.22
27	10 09	17 12	—	106	—	8 58 39	11 59.9	30.7	0.31
28	11 21	17 59	0 01	98	102	9 48 16	7 42.1	31.1	0.41
29	12 34	18 47	0 24	90	94	10 38 07	2 55.9	31.5	0.52
30	13 50	19 37	0 47	82	86	11 28 59	- 2 06.9	32.0	0.63
31	15 09	20 30	1 12	74	78	12 21 41	- 7 12.0	32.4	0.73

pełnia:	6 V	3 ^h 35 ^m	1 V	13.6 ^h	Mars	8°N
ostatnia kwadra:	12 V	21 ^h 47 ^m	4 V	21.7 ^h	Saturn	6°N
nów	20 V	23 ^h 47 ^m	13 V	21.8 ^h	Neptun	6°S
pierwsza kwadra	28 V	20 ^h 16 ^m	16 V	16.6 ^h	Uran	6°S
			20 V	6.0 ^h	Merkury	2°S
perygeum:	6 V	3 ^h 34 ^m	20 V	13.5 ^h	Jowisz	2°S
apogeum:	19 V	16 ^h 14 ^m	22 V	21.0 ^h	Wenus	5°N
			29 V	6.7 ^h	Mars	6°N