

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
MARZEC 2013									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	22 30	2 39	7 54	68	72	13 09 41	-10 04.3	31.8	-0.89
2	23 44	3 32	8 26	62	66	14 04 03	-14 01.4	32.0	-0.81
3	—	4 27	9 04	—	61	15 00 35	-17 12.9	32.1	-0.71
4	0 54	5 24	9 51	59	58	15 59 07	-19 24.2	32.2	-0.60
5	1 58	6 22	10 46	57	57	16 59 03	-20 24.1	32.3	-0.49
6	2 54	7 21	11 51	58	59	17 59 26	-20 06.7	32.3	-0.38
7	3 41	8 19	13 02	61	62	18 59 09	-18 33.3	32.3	-0.27
8	4 20	9 14	14 16	66	68	19 57 19	-15 51.8	32.2	-0.18
9	4 53	10 07	15 32	72	75	20 53 26	-12 15.3	32.1	-0.10
10	5 22	10 58	16 46	79	82	21 47 26	- 8 00.0	31.9	-0.04
11	5 47	11 48	17 59	86	90	22 39 36	- 3 23.1	31.6	-0.01
12	6 12	12 35	19 11	94	98	23 30 23	1 19.0	31.3	0.00
13	6 37	13 23	20 21	101	105	0 20 19	5 51.5	31.0	0.02
14	7 03	14 10	21 28	107	111	1 09 51	10 01.4	30.6	0.05
15	7 31	14 57	22 33	113	116	1 59 24	13 38.2	30.3	0.11
16	8 03	15 45	23 34	117	120	2 49 12	16 33.6	30.0	0.17
17	8 40	16 32	—	121	—	3 39 20	18 41.5	29.8	0.25
18	9 22	17 21	0 30	122	122	4 29 45	19 57.6	29.6	0.34
19	10 10	18 09	1 20	122	123	5 20 15	20 19.9	29.6	0.43
20	11 04	18 56	2 04	121	121	6 10 39	19 47.9	29.6	0.53
21	12 02	19 44	2 42	117	119	7 00 43	18 23.1	29.7	0.62
22	13 05	20 31	3 16	113	115	7 50 22	16 08.3	29.9	0.71
23	14 11	21 17	3 45	107	110	8 39 39	13 08.0	30.2	0.80
24	15 19	22 04	4 12	101	104	9 28 47	9 28.2	30.6	0.87
25	16 30	22 52	4 37	93	97	10 18 06	5 16.7	31.0	0.93
26	17 42	23 40	5 02	86	89	11 08 05	0 43.6	31.4	0.97
27	18 57	—	5 27	78	82	11 59 17	- 3 58.5	31.8	1.00
28	20 13	0 31	5 55	71	75	12 52 13	- 8 34.3	32.1	-0.99
29	21 29	1 24	6 26	65	68	13 47 19	-12 46.2	32.3	-0.97
30	22 43	2 20	7 04	60	63	14 44 44	-16 16.0	32.5	-0.91
31	23 51	3 18	7 49	58	59	15 44 12	-18 46.6	32.5	-0.84

ostatnia kwadra:	4 III	21 ^h 53 ^m		2 III	15.0 ^h	Saturn	3°N
nów:	11 III	19 ^h 51 ^m		10 III	16.1 ^h	Neptun	6°S
pierwsza kwadra:	19 III	17 ^h 27 ^m		10 III	21.9 ^h	Merkury	2°S
pełnia:	27 III	9 ^h 27 ^m		11 III	16.4 ^h	Wenus	6°S
				12 III	15.4 ^h	Mars	5°S
				13 III	4.2 ^h	Uran	4°S
perygeum:	5 III	23 ^h 21 ^m		18 III	1.4 ^h	Jowisz	1.5°N
apogeum:	19 III	3 ^h 14 ^m		29 III	18.7 ^h	Saturn	3°N
perygeum:	31 III	3 ^h 56 ^m					