

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
PAZDZIERNIK 2012									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	17 52	0 22	7 29	110	108	1 01 40	10 04.0	30.0	-0.99
2	18 19	1 07	8 34	115	113	1 49 24	13 43.8	29.8	-0.97
3	18 51	1 53	9 36	120	118	2 37 50	16 45.7	29.6	-0.92
4	19 29	2 40	10 36	122	122	3 27 05	19 02.8	29.5	-0.87
5	20 12	3 28	11 30	124	123	4 17 05	20 29.3	29.5	-0.80
6	21 02	4 16	12 19	123	124	5 07 37	21 01.4	29.5	-0.72
7	21 59	5 04	13 02	121	122	5 58 24	20 37.2	29.7	-0.63
8	23 00	5 52	13 38	117	119	6 49 08	19 16.9	29.9	-0.53
9	—	6 41	14 10	—	114	7 39 39	17 02.6	30.2	-0.43
10	0 06	7 28	14 39	112	108	8 29 57	13 58.1	30.6	-0.34
11	1 15	8 16	15 05	105	101	9 20 12	10 09.1	31.0	-0.24
12	2 27	9 05	15 29	98	94	10 10 48	5 43.6	31.5	-0.16
13	3 42	9 55	15 54	90	86	11 02 17	0 52.2	32.0	-0.09
14	5 00	10 46	16 21	82	78	11 55 16	- 4 10.9	32.5	-0.03
15	6 20	11 41	16 51	74	70	12 50 23	- 9 07.8	32.8	-0.00
16	7 41	12 38	17 26	66	64	13 48 02	-13 37.3	33.0	0.00
17	9 00	13 38	18 09	60	59	14 48 15	-17 17.0	33.1	0.03
18	10 14	14 39	19 01	57	56	15 50 28	-19 47.1	33.1	0.09
19	11 19	15 40	20 02	56	56	16 53 27	-20 54.5	32.9	0.17
20	12 13	16 40	21 11	58	59	17 55 42	-20 36.0	32.6	0.27
21	12 55	17 36	22 23	62	64	18 55 49	-18 58.1	32.2	0.37
22	13 30	18 29	23 36	67	70	19 53 00	-16 14.4	31.8	0.48
23	13 59	19 18	—	74	—	20 47 02	-12 41.0	31.4	0.59
24	14 24	20 05	0 47	81	77	21 38 15	- 8 34.2	31.1	0.70
25	14 47	20 50	1 57	88	84	22 27 18	- 4 08.7	30.7	0.79
26	15 09	21 34	3 05	95	91	23 14 54	0 22.8	30.4	0.86
27	15 31	22 19	4 12	102	99	0 01 47	4 49.0	30.2	0.92
28	15 55	23 03	5 18	108	105	0 48 35	8 59.5	29.9	0.97
29	16 21	23 49	6 23	114	111	1 35 51	12 44.8	29.8	0.99
30	16 52	—	7 26	118	117	2 23 55	15 55.9	29.6	-1.00
31	17 27	0 35	8 27	121	120	3 12 54	18 24.9	29.5	-0.99

ostatnia kwadra:	8 X	7 ^h 33 ^m		5 X	21.0 ^h	Jowisz	1°N
nów	15 X	12 ^h 03 ^m		12 X	19.2 ^h	Wenus	6°N
pierwsza kwadra	22 X	3 ^h 32 ^m		16 X	4.7 ^h	Saturn	5°N
pełnia:	29 X	19 ^h 50 ^m		17 X	1.8 ^h	Merkury	1°S
				18 X	13.2 ^h	Mars	2°S
apogeum:	5 X	0 ^h 44 ^m		24 X	15.9 ^h	Neptun	6°S
perygeum:	17 X	1 ^h 03 ^m		27 X	10.1 ^h	Uran	5°S