

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
PAZDZIERNIK 2011									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	11 24	15 38	19 49	54	53	15 37 52	-21 11.1	32.7	0.18
2	12 29	16 37	20 46	53	53	16 39 27	-22 37.4	32.3	0.27
3	13 21	17 34	21 51	54	55	17 39 45	-22 36.0	31.8	0.38
4	14 02	18 28	23 00	58	60	18 37 38	-21 14.9	31.3	0.49
5	14 34	19 18	—	63	—	19 32 25	-18 47.1	30.9	0.59
6	15 00	20 04	0 09	69	65	20 23 59	-15 27.4	30.5	0.69
7	15 22	20 49	1 18	76	72	21 12 42	-11 30.5	30.2	0.78
8	15 42	21 31	2 25	83	79	21 59 10	- 7 09.1	29.9	0.85
9	16 00	22 12	3 31	91	87	22 44 08	- 2 34.6	29.7	0.91
10	16 19	22 54	4 36	98	94	23 28 21	2 02.9	29.5	0.96
11	16 38	23 36	5 41	105	102	0 12 32	6 33.8	29.5	0.99
12	17 00	—	6 46	111	109	0 57 20	10 48.9	29.4	1.00
13	17 25	0 19	7 50	117	115	1 43 16	14 38.6	29.4	-0.99
14	17 55	1 04	8 54	122	120	2 30 45	17 53.4	29.5	-0.97
15	18 31	1 51	9 56	125	124	3 19 59	20 24.0	29.6	-0.93
16	19 15	2 40	10 53	127	126	4 10 54	22 01.8	29.7	-0.87
17	20 07	3 30	11 44	126	126	5 03 12	22 39.5	29.9	-0.80
18	21 08	4 21	12 29	124	125	5 56 22	22 12.6	30.2	-0.71
19	22 16	5 12	13 06	119	121	6 49 51	20 39.3	30.6	-0.62
20	23 28	6 03	13 38	113	115	7 43 11	18 01.3	31.0	-0.52
21	—	6 54	14 06	—	108	8 36 12	14 23.7	31.5	-0.41
22	0 44	7 45	14 31	105	101	9 28 59	9 54.5	32.0	-0.31
23	2 02	8 36	14 54	97	92	10 21 59	4 45.1	32.5	-0.21
24	3 23	9 28	15 18	87	83	11 15 47	- 0 49.1	32.9	-0.12
25	4 47	10 22	15 44	78	74	12 11 09	- 6 28.9	33.3	-0.05
26	6 12	11 19	16 15	69	66	13 08 43	-11 50.7	33.4	-0.01
27	7 38	12 18	16 51	62	59	14 08 48	-16 29.0	33.4	0.00
28	8 59	13 20	17 37	56	55	15 11 06	-19 59.4	33.3	0.02
29	10 11	14 22	18 32	53	53	16 14 34	-22 03.8	32.9	0.07
30	11 11	15 22	19 37	54	54	17 17 31	-22 35.2	32.5	0.14
31	11 58	16 19	20 47	56	58	18 18 19	-21 38.1	32.0	0.23

pierwsza kwadra:	4 X	3 ^h 15 ^m		8 X	2.1 ^h	Neptun	6°S
pełnia:	12 X	2 ^h 06 ^m		10 X	21.8 ^h	Uran	6°S
ostatnia kwadra:	20 X	3 ^h 30 ^m		13 X	19.6 ^h	Jowisz	5°S
nów:	26 X	19 ^h 56 ^m		21 X	23.9 ^h	Mars	7°N
				26 X	6.1 ^h	Saturn	7°N
apogeum:	12 X	11 ^h 44 ^m		28 X	2.3 ^h	Merkury	0.2°N
perygeum:	26 X	12 ^h 27 ^m		28 X	5.2 ^h	Wenus	2°N