

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
PAZDZIERNIK 2016									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	6 15	12 14	18 05	86	84	12 33 31	- 1 09.7	29.8	-0.00
2	7 17	12 58	18 29	80	78	13 19 24	- 4 56.0	29.6	0.01
3	8 19	13 41	18 56	75	73	14 05 19	- 8 28.6	29.5	0.04
4	9 19	14 25	19 25	70	68	14 51 43	-11 39.5	29.4	0.08
5	10 19	15 10	19 58	66	64	15 38 54	-14 21.6	29.4	0.14
6	11 16	15 57	20 35	62	62	16 27 08	-16 28.2	29.5	0.21
7	12 10	16 45	21 19	61	60	17 16 32	-17 53.1	29.7	0.29
8	12 59	17 34	22 09	60	61	18 07 05	-18 31.1	29.9	0.39
9	13 45	18 24	23 06	61	62	18 58 42	-18 18.0	30.2	0.48
10	14 26	19 15	—	64	—	19 51 11	-17 11.3	30.6	0.58
11	15 03	20 06	0 08	69	66	20 44 21	-15 10.3	31.1	0.68
12	15 36	20 58	1 17	74	71	21 38 05	-12 17.3	31.6	0.78
13	16 07	21 51	2 29	81	77	22 32 23	- 8 37.9	32.2	0.86
14	16 38	22 45	3 45	88	84	23 27 22	- 4 21.7	32.7	0.93
15	17 09	23 40	5 04	96	92	0 23 18	0 17.4	33.0	0.98
16	17 41	—	6 24	103	100	1 20 27	5 01.3	33.3	1.00
17	18 18	0 37	7 45	109	107	2 19 01	9 29.2	33.4	-0.99
18	18 59	1 35	9 04	115	113	3 18 58	13 19.9	33.3	-0.95
19	19 46	2 34	10 18	118	117	4 19 53	16 15.0	33.1	-0.88
20	20 40	3 34	11 25	120	119	5 20 59	18 02.3	32.7	-0.80
21	21 40	4 32	12 23	119	119	6 21 16	18 37.0	32.2	-0.70
22	22 44	5 28	13 12	116	117	7 19 46	18 02.1	31.8	-0.59
23	23 49	6 22	13 52	112	114	8 15 51	16 26.1	31.3	-0.48
24	—	7 12	14 26	—	109	9 09 15	14 00.4	30.9	-0.38
25	0 55	8 00	14 55	107	104	10 00 07	10 57.0	30.5	-0.28
26	2 00	8 46	15 21	101	98	10 48 49	7 27.5	30.2	-0.19
27	3 04	9 30	15 45	95	92	11 35 55	3 42.3	29.9	-0.12
28	4 07	10 13	16 09	89	86	12 21 58	- 0 09.1	29.7	-0.07
29	5 09	10 56	16 33	82	80	13 07 33	- 3 58.0	29.6	-0.03
30	6 11	11 39	16 59	77	74	13 53 12	- 7 36.0	29.5	-0.01
31	7 12	12 23	17 27	71	69	14 39 21	-10 55.2	29.4	0.00

nów:	1 X	0 ^h 11 ^m	3 X	17.5 ^h	Wenus	5°S
pierwsza kwadra:	9 X	4 ^h 33 ^m	6 X	7.8 ^h	Saturn	4°S
pełnia:	16 X	4 ^h 23 ^m	8 X	12.2 ^h	Mars	7°S
ostatnia kwadra:	22 X	19 ^h 14 ^m	13 X	6.0 ^h	Neptun	1.2°S
nów:	30 X	17 ^h 39 ^m	16 X	1.6 ^h	Uran	3°N
apogeum:	4 X	11 ^h 03 ^m	28 X	9.5 ^h	Jowisz	1.4°S
perygeum:	16 X	23 ^h 37 ^m	30 X	19.1 ^h	Merkury	4°S
apogeum:	31 X	19 ^h 30 ^m				