

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _W	A _Z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
WRZESIEŃ 2017									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	16 02	20 32	0 12	59	59	18 32 59	-19 23.4	29.7	0.74
2	16 45	21 21	1 03	61	59	19 23 53	-19 01.3	29.8	0.82
3	17 23	22 10	2 00	64	62	20 15 06	-17 46.0	30.1	0.89
4	17 56	22 58	3 02	68	66	21 06 22	-15 38.8	30.4	0.94
5	18 26	23 47	4 08	74	71	21 57 29	-12 43.9	30.7	0.98
6	18 54	—	5 17	81	77	22 48 25	-9 08.2	31.0	1.00
7	19 20	0 35	6 28	88	84	23 39 19	-5 01.1	31.3	-0.99
8	19 47	1 24	7 40	95	91	0 30 29	-0 34.5	31.6	-0.97
9	20 15	2 14	8 54	102	99	1 22 22	3 57.9	31.8	-0.91
10	20 45	3 05	10 08	108	106	2 15 25	8 21.1	32.0	-0.84
11	21 21	3 58	11 22	114	112	3 10 05	12 19.3	32.2	-0.75
12	22 02	4 53	12 35	118	117	4 06 36	15 36.8	32.2	-0.64
13	22 52	5 50	13 43	121	120	5 04 53	17 59.2	32.3	-0.53
14	23 50	6 48	14 45	121	121	6 04 28	19 15.2	32.3	-0.42
15	—	7 46	15 38	—	120	7 04 31	19 18.5	32.3	-0.31
16	0 55	8 43	16 24	119	116	8 04 00	18 08.9	32.2	-0.21
17	2 05	9 39	17 02	115	112	9 02 02	15 53.1	32.0	-0.12
18	3 18	10 32	17 34	109	105	9 58 02	12 42.8	31.8	-0.06
19	4 30	11 22	18 02	103	99	10 51 50	8 52.7	31.6	-0.02
20	5 42	12 11	18 28	95	92	11 43 36	4 38.8	31.3	-0.00
21	6 52	12 58	18 53	88	85	12 33 44	0 16.1	31.0	0.01
22	8 00	13 44	19 18	81	78	13 22 43	-4 01.7	30.6	0.04
23	9 06	14 30	19 45	75	73	14 11 04	-8 03.3	30.3	0.08
24	10 11	15 15	20 13	69	67	14 59 15	-11 38.9	30.0	0.15
25	11 13	16 02	20 45	65	63	15 47 39	-14 40.7	29.8	0.22
26	12 11	16 48	21 22	61	60	16 36 29	-17 02.4	29.6	0.31
27	13 06	17 36	22 04	59	59	17 25 54	-18 38.9	29.6	0.40
28	13 56	18 24	22 52	59	59	18 15 53	-19 26.3	29.6	0.49
29	14 40	19 12	23 46	60	60	19 06 18	-19 22.1	29.7	0.58
30	15 20	20 00	—	62	—	19 57 00	-18 25.3	29.9	0.68

pełnia:	6 IX	7 ^h 03 ^m	6 IX	4.6 ^h	Neptun	1°N
ostatnia kwadra:	13 IX	6 ^h 25 ^m	9 IX	10.3 ^h	Uran	4°N
nów:	20 IX	5 ^h 30 ^m	18 IX	1.0 ^h	Wenus	0.5°N
pierwsza kwadra:	28 IX	2 ^h 54 ^m	18 IX	19.8 ^h	Mars	0.1°S
			18 IX	23.4 ^h	Merkury	0.01°S
perygeum:	13 IX	16 ^h 07 ^m	22 IX	7.9 ^h	Jowisz	4°S
apogeum:	27 IX	6 ^h 52 ^m	26 IX	23.9 ^h	Saturn	3.5°S