

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _W	A _Z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
SIERPIEŃ 2018									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	21 56	3 13	9 02	87	83	23 45 49	- 5 51.8	30.0	-0.85
2	22 19	3 57	10 09	94	90	0 32 10	- 1 34.0	30.2	-0.77
3	22 42	4 42	11 17	101	98	1 19 10	2 52.4	30.6	-0.68
4	23 08	5 28	12 27	108	105	2 07 36	7 17.3	31.0	-0.58
5	23 39	6 17	13 39	114	111	2 58 18	11 28.7	31.4	-0.48
6	—	7 10	14 52	—	117	3 51 59	15 12.3	31.9	-0.37
7	0 16	8 06	16 04	119	121	4 49 06	18 11.2	32.3	-0.26
8	1 03	9 06	17 12	122	123	5 49 35	20 07.5	32.8	-0.17
9	2 02	10 08	18 12	123	122	6 52 39	20 45.1	33.1	-0.09
10	3 11	11 11	19 02	121	119	7 56 46	19 55.1	33.3	-0.03
11	4 28	12 12	19 43	117	113	9 00 14	17 39.1	33.4	-0.00
12	5 49	13 10	20 17	111	106	10 01 34	14 10.0	33.2	0.01
13	7 11	14 05	20 46	103	99	11 00 03	9 48.4	32.9	0.04
14	8 29	14 57	21 12	95	91	11 55 40	4 57.3	32.5	0.10
15	9 45	15 47	21 37	87	83	12 48 50	- 0 01.8	32.0	0.17
16	10 58	16 35	22 02	79	76	13 40 16	- 4 51.3	31.5	0.27
17	12 09	17 23	22 28	72	69	14 30 40	- 9 17.2	31.0	0.37
18	13 16	18 10	22 58	66	64	15 20 37	-13 09.2	30.6	0.47
19	14 20	18 58	23 31	61	60	16 10 37	-16 19.3	30.2	0.57
20	15 20	19 46	—	58	—	17 00 55	-18 41.5	29.9	0.66
21	16 14	20 35	0 10	56	57	17 51 31	-20 11.3	29.7	0.75
22	17 02	21 23	0 55	57	56	18 42 17	-20 46.0	29.5	0.83
23	17 43	22 11	1 45	58	57	19 32 52	-20 24.9	29.5	0.89
24	18 19	22 57	2 42	62	59	20 22 55	-19 09.7	29.5	0.94
25	18 49	23 43	3 42	66	63	21 12 09	-17 04.1	29.5	0.98
26	19 16	—	4 45	72	68	22 00 27	-14 13.7	29.6	1.00
27	19 39	0 28	5 49	78	74	22 47 50	-10 46.0	29.8	-1.00
28	20 02	1 12	6 55	85	81	23 34 36	- 6 49.2	30.0	-0.98
29	20 24	1 56	8 01	92	88	0 21 08	- 2 32.5	30.2	-0.94
30	20 47	2 40	9 09	99	95	1 08 02	1 54.2	30.4	-0.88
31	21 11	3 26	10 17	106	103	1 55 55	6 20.4	30.7	-0.81

ostatnia kwadra:	4 VIII	18 ^h 18 ^m	3 VIII	21.4 ^h	Uran	5°N
nów:	11 VIII	9 ^h 58 ^m	11 VIII	1.6 ^h	Merkury	6°S
pierwsza kwadra:	18 VIII	7 ^h 49 ^m	14 VIII	13.6 ^h	Wenus	6°S
pełnia:	26 VIII	11 ^h 56 ^m	17 VIII	10.7 ^h	Jowisz	5°S
			21 VIII	9.7 ^h	Saturn	2°S
perygeum:	10 VIII	18 ^h 06 ^m	23 VIII	17.4 ^h	Mars	7°S
apogeum:	23 VIII	11 ^h 22 ^m	27 VIII	10.2 ^h	Neptun	3°N
			31 VIII	5.8 ^h	Uran	5°N