

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _W	A _Z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
WRZESIEŃ 2018									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	21 40	4 13	11 28	112	109	2 45 30	10 34.3	31.0	-0.72
2	22 14	5 04	12 39	117	115	3 37 27	14 22.8	31.4	-0.62
3	22 55	5 57	13 50	121	120	4 32 13	17 31.2	31.8	-0.51
4	23 47	6 54	14 58	123	123	5 29 58	19 44.0	32.1	-0.40
5	—	7 53	15 59	—	123	6 30 17	20 46.7	32.5	-0.29
6	0 49	8 54	16 52	123	121	7 32 12	20 28.9	32.8	-0.19
7	2 02	9 54	17 35	120	116	8 34 22	18 47.5	33.0	-0.11
8	3 20	10 53	18 12	114	110	9 35 30	15 48.8	33.1	-0.04
9	4 41	11 49	18 43	107	103	10 34 40	11 47.9	33.0	-0.01
10	6 01	12 43	19 10	99	95	11 31 32	7 04.9	32.8	0.00
11	7 20	13 34	19 36	91	87	12 26 16	2 01.8	32.5	0.02
12	8 36	14 24	20 01	82	79	13 19 19	- 3 00.8	32.0	0.07
13	9 50	15 14	20 28	75	72	14 11 16	- 7 45.4	31.5	0.14
14	11 01	16 03	20 56	68	66	15 02 36	-11 58.4	31.1	0.22
15	12 08	16 51	21 29	63	61	15 53 46	-15 29.4	30.6	0.31
16	13 11	17 40	22 06	59	58	16 44 58	-18 11.1	30.2	0.41
17	14 08	18 29	22 49	57	56	17 36 14	-19 58.9	29.9	0.50
18	14 58	19 18	23 38	56	56	18 27 27	-20 50.1	29.7	0.60
19	15 42	20 06	—	57	—	19 18 20	-20 44.4	29.6	0.69
20	16 19	20 53	0 32	60	58	20 08 38	-19 43.3	29.5	0.77
21	16 51	21 39	1 31	64	62	20 58 06	-17 50.3	29.5	0.85
22	17 19	22 24	2 34	70	66	21 46 40	-15 10.5	29.7	0.91
23	17 44	23 09	3 38	76	72	22 34 24	-11 50.3	29.8	0.96
24	18 07	23 53	4 44	82	79	23 21 34	- 7 57.4	30.0	0.99
25	18 29	—	5 51	90	86	0 08 31	- 3 40.7	30.3	1.00
26	18 51	0 38	6 59	97	93	0 55 48	0 49.8	30.5	-0.99
27	19 15	1 24	8 09	104	101	1 43 57	5 22.7	30.8	-0.96
28	19 42	2 11	9 20	110	108	2 33 36	9 45.5	31.0	-0.91
29	20 14	3 01	10 31	116	114	3 25 18	13 44.2	31.3	-0.84
30	20 53	3 53	11 42	121	119	4 19 25	17 04.2	31.6	-0.76

ostatnia kwadra:	3 IX	2 ^h 37 ^m		8 IX 22.3 ^h	Merkury	1°S
nów:	9 IX	18 ^h 01 ^m		12 IX 22.2 ^h	Wenus	10°S
pierwsza kwadra:	16 IX	23 ^h 15 ^m		14 IX 2.4 ^h	Jowisz	4°S
pełnia:	25 IX	2 ^h 52 ^m		17 IX 16.5 ^h	Saturn	2°S
				20 IX 6.8 ^h	Mars	5°S
perygeum:	8 IX	1 ^h 20 ^m		23 IX 15.6 ^h	Neptun	2°N
apogeum:	20 IX	0 ^h 55 ^m		27 IX 15.6 ^h	Uran	5°N