

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _W	A _Z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
SIERPIEŃ 2020									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	18 41	22 41	1 44	51	50	18 29 33	-23 59.7	31.4	0.92
2	19 27	23 36	2 43	53	51	19 28 00	-23 48.6	31.1	0.97
3	20 03	—	3 49	57	54	20 24 44	-22 17.9	30.8	0.99
4	20 32	0 28	4 59	63	59	21 18 50	-19 38.8	30.6	-1.00
5	20 55	1 16	6 10	70	66	22 09 53	-16 06.0	30.3	-0.98
6	21 14	2 02	7 19	78	73	22 58 05	-11 54.5	30.0	-0.94
7	21 31	2 45	8 27	85	81	23 43 55	- 7 18.2	29.8	-0.89
8	21 48	3 26	9 33	93	89	0 28 09	- 2 29.3	29.6	-0.82
9	22 05	4 07	10 38	100	97	1 11 35	2 22.2	29.5	-0.75
10	22 23	4 47	11 44	108	104	1 55 07	7 07.3	29.5	-0.66
11	22 44	5 29	12 50	114	112	2 39 35	11 37.2	29.6	-0.57
12	23 09	6 14	13 57	120	118	3 25 48	15 42.8	29.8	-0.47
13	23 40	7 01	15 05	125	124	4 14 31	19 13.5	30.1	-0.38
14	—	7 51	16 11	—	128	5 06 13	21 56.9	30.4	-0.28
15	0 21	8 45	17 12	128	129	6 00 58	23 39.5	30.8	-0.20
16	1 14	9 41	18 05	129	128	6 58 19	24 08.3	31.3	-0.12
17	2 18	10 38	18 49	127	125	7 57 17	23 14.0	31.7	-0.06
18	3 33	11 36	19 24	123	119	8 56 33	20 53.9	32.1	-0.02
19	4 54	12 32	19 53	116	111	9 54 58	17 13.7	32.5	-0.00
20	6 17	13 26	20 17	107	102	10 51 51	12 27.4	32.7	0.01
21	7 41	14 18	20 39	98	93	11 47 06	6 54.4	32.9	0.05
22	9 04	15 10	21 00	88	83	12 41 08	0 57.3	32.9	0.12
23	10 26	16 01	21 23	78	74	13 34 42	- 5 01.2	32.7	0.20
24	11 48	16 53	21 47	69	66	14 28 35	-10 39.4	32.5	0.31
25	13 09	17 47	22 17	61	59	15 23 27	-15 37.6	32.3	0.42
26	14 26	18 43	22 54	55	53	16 19 43	-19 38.7	32.0	0.53
27	15 36	19 39	23 39	51	51	17 17 16	-22 28.9	31.6	0.64
28	16 37	20 35	—	50	—	18 15 31	-23 59.1	31.3	0.74
29	17 26	21 30	0 34	52	50	19 13 25	-24 06.4	31.0	0.83
30	18 05	22 22	1 38	56	53	20 09 51	-22 54.3	30.7	0.90
31	18 35	23 11	2 46	61	57	21 03 56	-20 32.1	30.5	0.95

pełnia:	3 VIII	15 ^h 59 ^m	1 VIII	23.6 ^h	Jowisz	1.5°N
ostatnia kwadra:	11 VIII	16 ^h 45 ^m	2 VIII	13.2 ^h	Saturn	2°N
nów:	19 VIII	2 ^h 42 ^m	6 VIII	14.9 ^h	Neptun	4°N
pierwsza kwadra:	25 VIII	17 ^h 58 ^m	9 VIII	8.1 ^h	Mars	0.7°N
			10 VIII	20.9 ^h	Uran	3.5°N
apogeum:	9 VIII	13 ^h 52 ^m	15 VIII	13.1 ^h	Wenus	4°S
perygeum:	21 VIII	10 ^h 58 ^m	19 VIII	3.8 ^h	Merkury	3°S
			29 VIII	16.7 ^h	Saturn	2°N