

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _W	A _Z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LIPIEC 2020									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	16 12	21 02	1 14	64	69	14 54 31	-12 48.8	32.4	0.79
2	17 32	21 58	1 42	57	62	15 50 21	-17 24.2	32.3	0.88
3	18 47	22 56	2 16	53	56	16 48 21	-20 57.8	32.1	0.94
4	19 54	23 54	3 00	51	52	17 47 59	-23 14.0	31.9	0.98
5	20 49	—	3 54	51	—	18 48 02	-24 03.7	31.6	1.00
6	21 31	0 51	4 57	55	52	19 46 59	-23 27.0	31.2	-0.99
7	22 04	1 46	6 06	60	56	20 43 30	-21 32.4	30.9	-0.96
8	22 30	2 36	7 16	66	62	21 36 49	-18 34.0	30.5	-0.91
9	22 51	3 24	8 26	73	69	22 26 51	-14 47.7	30.2	-0.85
10	23 10	4 08	9 35	81	76	23 14 01	-10 28.6	29.9	-0.77
11	23 27	4 50	10 41	88	84	23 59 00	- 5 49.5	29.7	-0.69
12	23 43	5 30	11 46	96	92	0 42 42	- 1 00.8	29.6	-0.59
13	—	6 11	12 52	—	100	1 26 01	3 48.4	29.6	-0.50
14	0 00	6 52	13 58	103	107	2 09 52	8 29.7	29.6	-0.40
15	0 20	7 35	15 05	110	114	2 55 08	12 54.3	29.8	-0.31
16	0 42	8 21	16 14	117	121	3 42 39	16 51.9	30.0	-0.23
17	1 10	9 10	17 22	123	125	4 33 00	20 10.4	30.3	-0.15
18	1 46	10 03	18 27	127	129	5 26 29	22 35.9	30.7	-0.08
19	2 33	10 59	19 25	129	129	6 22 51	23 54.1	31.1	-0.04
20	3 31	11 56	20 14	129	127	7 21 15	23 53.3	31.4	-0.01
21	4 40	12 53	20 54	126	122	8 20 22	22 27.8	31.8	0.00
22	5 57	13 49	21 25	120	115	9 18 52	19 39.8	32.0	0.02
23	7 17	14 43	21 51	112	107	10 15 47	15 39.9	32.3	0.07
24	8 38	15 34	22 14	104	99	11 10 47	10 44.5	32.4	0.14
25	9 59	16 25	22 35	94	89	12 04 07	5 12.7	32.4	0.22
26	11 19	17 15	22 56	85	80	12 56 28	- 0 35.5	32.4	0.33
27	12 39	18 05	23 19	75	72	13 48 43	- 6 20.4	32.3	0.44
28	14 00	18 57	23 44	67	64	14 41 45	-11 43.4	32.2	0.56
29	15 19	19 51	—	59	—	15 36 17	-16 26.3	32.1	0.67
30	16 34	20 47	0 16	54	57	16 32 39	-20 12.2	31.9	0.77
31	17 43	21 44	0 55	51	53	17 30 41	-22 46.7	31.6	0.85

pełnia:	5 VII	4 ^h 44 ^m	5 VII	21.7 ^h	Jowisz	2°N
ostatnia kwadra:	12 VII	23 ^h 29 ^m	6 VII	8.7 ^h	Saturn	2.5°N
nów:	20 VII	17 ^h 33 ^m	10 VII	7.5 ^h	Neptun	4°N
pierwsza kwadra:	27 VII	12 ^h 33 ^m	11 VII	19.8 ^h	Mars	1.9°S
			14 VII	11.9 ^h	Uran	4°N
			17 VII	7.5 ^h	Wenus	3°S
apogeum:	12 VII	19 ^h 27 ^m	19 VII	4.0 ^h	Merkury	4°S
peryeum:	25 VII	5 ^h 02 ^m				