

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LIPIEC 2022									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	5 37	14 03	22 15	130	126	8 11 45	24 51.5	29.5	0.03
2	6 46	14 50	22 39	124	120	9 02 19	22 08.1	29.6	0.08
3	7 57	15 35	22 57	117	112	9 51 02	18 26.7	29.8	0.13
4	9 08	16 19	23 13	109	104	10 38 03	13 57.4	30.0	0.21
5	10 20	17 02	23 28	100	95	11 23 53	8 50.5	30.3	0.29
6	11 32	17 45	23 42	91	86	12 09 21	3 16.2	30.7	0.39
7	12 47	18 29	23 58	81	77	12 55 29	- 2 34.4	31.1	0.49
8	14 06	19 17	—	71	—	13 43 25	- 8 28.7	31.6	0.60
9	15 29	20 10	0 16	62	67	14 34 24	-14 10.6	32.1	0.70
10	16 55	21 07	0 39	54	59	15 29 38	-19 19.0	32.6	0.80
11	18 21	22 10	1 11	48	51	16 29 50	-23 27.5	33.0	0.89
12	19 37	23 17	1 55	45	46	17 34 43	-26 07.3	33.3	0.95
13	20 37	—	2 57	47	45	18 42 34	-26 54.4	33.4	0.99
14	21 20	0 24	4 16	52	48	19 50 26	-25 39.4	33.4	-1.00
15	21 50	1 28	5 45	60	55	20 55 27	-22 32.3	33.2	-0.98
16	22 13	2 26	7 14	70	64	21 55 54	-17 57.9	32.9	-0.93
17	22 31	3 19	8 39	79	74	22 51 31	-12 26.8	32.4	-0.85
18	22 46	4 08	9 59	89	84	23 43 03	- 6 26.9	31.9	-0.76
19	23 01	4 54	11 16	98	94	0 31 40	- 0 20.9	31.4	-0.67
20	23 16	5 38	12 30	107	103	1 18 37	5 34.1	30.9	-0.56
21	23 33	6 21	13 43	115	112	2 05 01	11 05.1	30.4	-0.46
22	23 54	7 06	14 55	122	120	2 51 52	16 01.3	30.1	-0.36
23	—	7 52	16 05	—	126	3 39 55	20 12.9	29.8	-0.27
24	0 19	8 40	17 12	128	131	4 29 35	23 30.6	29.6	-0.19
25	0 52	9 29	18 13	132	134	5 20 54	25 45.7	29.5	-0.12
26	1 34	10 20	19 05	134	134	6 13 27	26 51.0	29.4	-0.07
27	2 27	11 11	19 47	134	132	7 06 26	26 42.6	29.4	-0.03
28	3 29	12 00	20 19	131	128	7 58 55	25 20.7	29.5	-0.01
29	4 37	12 48	20 44	126	122	8 50 03	22 49.9	29.6	0.00
30	5 48	13 34	21 04	119	114	9 39 24	19 18.3	29.7	0.02
31	6 59	14 18	21 20	111	106	10 26 55	14 56.2	29.9	0.05

pierwsza kwadra:	7 VII	2 ^h 14 ^m		15 VII	20.4 ^h	Saturn	4°N
pełnia:	13 VII	18 ^h 37 ^m		18 VII	0.9 ^h	Neptun	3°N
ostatnia kwadra:	20 VII	14 ^h 18 ^m		19 VII	1.0 ^h	Jowisz	2°N
nów:	28 VII	17 ^h 55 ^m		21 VII	16.8 ^h	Mars	1°S
				22 VII	6.4 ^h	Uran	0.2°S
perygeum:	13 VII	9 ^h 04 ^m		26 VII	14.3 ^h	Wenus	4°S
apogeum:	26 VII	10 ^h 22 ^m		29 VII	21.2 ^h	Merkury	4°S