

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LUTY 2022									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	8 17	12 35	17 03	55	58	20 50 16	-22 36.8	32.8	-0.00
2	8 45	13 31	18 28	63	67	21 49 53	-18 26.0	32.5	0.01
3	9 06	14 21	19 50	72	76	22 45 06	-13 16.6	32.1	0.04
4	9 24	15 08	21 07	82	86	23 36 25	- 7 34.7	31.6	0.10
5	9 39	15 53	22 21	91	96	0 24 48	- 1 42.3	31.1	0.17
6	9 55	16 36	23 33	100	105	1 11 22	4 03.6	30.7	0.26
7	10 11	17 19	—	108	—	1 57 10	9 29.9	30.3	0.35
8	10 28	18 03	0 44	116	113	2 43 11	14 26.0	30.0	0.45
9	10 50	18 49	1 54	123	120	3 30 11	18 42.7	29.7	0.54
10	11 16	19 36	3 02	128	126	4 18 46	22 11.1	29.6	0.63
11	11 51	20 26	4 07	132	131	5 09 10	24 42.5	29.5	0.72
12	12 35	21 17	5 07	134	133	6 01 13	26 08.6	29.5	0.80
13	13 29	22 08	5 58	133	133	6 54 24	26 23.2	29.7	0.87
14	14 33	22 59	6 39	129	131	7 47 52	25 23.1	29.8	0.93
15	15 44	23 48	7 11	124	126	8 40 44	23 09.7	30.0	0.97
16	16 57	—	7 37	117	119	9 32 21	19 48.7	30.3	0.99
17	18 12	0 36	7 57	108	112	10 22 26	15 29.5	30.6	-1.00
18	19 28	1 22	8 15	99	103	11 11 09	10 24.1	30.8	-0.98
19	20 44	2 07	8 31	89	94	11 59 01	4 46.2	31.1	-0.94
20	22 01	2 52	8 47	79	85	12 46 48	- 1 09.6	31.4	-0.88
21	23 20	3 39	9 03	70	75	13 35 28	- 7 07.3	31.6	-0.81
22	—	4 28	9 23	—	66	14 26 02	-12 49.9	31.8	-0.71
23	0 42	5 19	9 47	61	58	15 19 26	-17 58.3	32.0	-0.61
24	2 05	6 15	10 18	53	51	16 16 23	-22 11.5	32.2	-0.49
25	3 25	7 15	11 02	48	47	17 16 53	-25 08.1	32.4	-0.38
26	4 35	8 17	12 00	46	46	18 20 03	-26 29.4	32.5	-0.27
27	5 32	9 20	13 13	47	48	19 24 06	-26 05.0	32.5	-0.18
28	6 14	10 20	14 35	52	54	20 26 51	-23 56.2	32.4	-0.10

nów:	1 II	5 ^h 46 ^m	1 II	9.0 ^h	Saturn	4°N
pierwsza kwadra:	8 II	13 ^h 50 ^m	2 II	21.2 ^h	Jowisz	4°N
pełnia:	16 II	16 ^h 56 ^m	3 II	21.3 ^h	Neptun	4°N
ostatnia kwadra:	27 II	22 ^h 32 ^m	7 II	19.7 ^h	Uran	1°N
			27 II	6.5 ^h	Wenus	9°N
apogeum:	11 II	2 ^h 38 ^m	27 II	9.1 ^h	Mars	3.5°N
perygeum:	26 II	22 ^h 26 ^m	28 II	21.4 ^h	Merkury	3.5°N
			28 II	23.8 ^h	Saturn	4°N