

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LUTY 2021									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	21 31	3 04	9 40	93	98	11 43 25	7 19.7	32.1	-0.88
2	22 51	3 53	10 00	83	88	12 34 51	1 29.1	32.2	-0.79
3	—	4 42	10 19	—	79	13 26 13	-4 27.5	32.3	-0.69
4	0 12	5 32	10 41	74	70	14 18 27	-10 11.0	32.3	-0.58
5	1 33	6 25	11 06	65	62	15 12 25	-15 22.1	32.3	-0.47
6	2 54	7 20	11 37	57	55	16 08 44	-19 41.7	32.2	-0.36
7	4 12	8 18	12 18	52	51	17 07 28	-22 51.8	32.1	-0.25
8	5 22	9 17	13 10	49	49	18 07 58	-24 37.5	31.9	-0.16
9	6 20	10 16	14 14	49	50	19 08 53	-24 51.3	31.7	-0.09
10	7 06	11 13	15 26	52	54	20 08 35	-23 34.3	31.5	-0.04
11	7 40	12 06	16 41	58	60	21 05 42	-20 57.1	31.2	-0.01
12	8 06	12 56	17 55	65	68	21 59 30	-17 15.9	30.9	0.00
13	8 28	13 42	19 08	72	76	22 49 57	-12 49.0	30.6	0.02
14	8 46	14 26	20 18	80	84	23 37 32	-7 53.9	30.3	0.05
15	9 02	15 08	21 26	89	93	0 22 59	-2 45.7	30.0	0.11
16	9 18	15 49	22 33	97	101	1 07 12	2 23.2	29.8	0.17
17	9 34	16 30	23 40	104	109	1 51 02	7 22.3	29.6	0.25
18	9 52	17 12	—	112	—	2 35 22	12 02.5	29.6	0.34
19	10 13	17 57	0 47	118	116	3 20 59	16 14.7	29.6	0.43
20	10 39	18 44	1 54	124	122	4 08 36	19 49.5	29.7	0.52
21	11 12	19 34	3 00	128	127	4 58 38	22 36.6	29.9	0.62
22	11 55	20 26	4 03	131	130	5 51 16	24 24.8	30.1	0.71
23	12 48	21 20	4 59	131	131	6 46 10	25 03.4	30.5	0.79
24	13 54	22 15	5 46	128	129	7 42 34	24 24.0	30.9	0.87
25	15 08	23 10	6 25	123	125	8 39 28	22 23.1	31.3	0.93
26	16 27	—	6 56	115	118	9 35 51	19 03.5	31.8	0.98
27	17 49	0 03	7 22	107	110	10 31 05	14 34.8	32.1	1.00
28	19 12	0 55	7 43	97	101	11 25 04	9 12.3	32.4	-0.99

ostatnia kwadra:	4 II	17 ^h 37 ^m	10 II	11.3 ^h	Saturn	3°N
nów:	11 II	19 ^h 06 ^m	10 II	20.5 ^h	Wenus	3°N
pierwsza kwadra:	19 II	18 ^h 47 ^m	10 II	21.6 ^h	Jowisz	4°N
pełnia:	27 II	8 ^h 17 ^m	11 II	3.3 ^h	Merkury	8°N
			13 II	17.0 ^h	Neptun	4°N
perygeum:	3 II	19 ^h 07 ^m	17 II	15.9 ^h	Uran	3°N
apogeum:	18 II	10 ^h 22 ^m	18 II	22.9 ^h	Mars	4°N