

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LUTY 2017									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	9 43	15 55	22 18	90	94	0 08 33	- 1 45.2	31.7	0.17
2	10 11	16 45	23 32	97	101	1 00 42	2 41.3	31.9	0.26
3	10 41	17 37	—	104	—	1 53 45	7 02.0	32.1	0.37
4	11 14	18 31	0 46	110	107	2 48 15	11 01.9	32.2	0.48
5	11 52	19 27	2 00	115	113	3 44 33	14 25.9	32.3	0.59
6	12 37	20 25	3 11	118	117	4 42 42	16 59.4	32.4	0.70
7	13 30	21 23	4 17	120	120	5 42 20	18 30.1	32.4	0.80
8	14 30	22 22	5 16	119	120	6 42 35	18 50.2	32.3	0.89
9	15 37	23 18	6 07	117	118	7 42 23	17 58.6	32.2	0.95
10	16 47	—	6 50	112	114	8 40 40	16 01.0	32.0	0.99
11	17 58	0 12	7 26	106	109	9 36 42	13 09.2	31.7	1.00
12	19 09	1 03	7 57	100	103	10 30 12	9 37.9	31.3	-0.99
13	20 17	1 52	8 24	93	97	11 21 18	5 42.5	30.9	-0.96
14	21 23	2 38	8 50	87	90	12 10 24	1 37.0	30.6	-0.90
15	22 27	3 23	9 14	80	84	12 58 05	- 2 26.6	30.2	-0.84
16	23 30	4 08	9 39	75	78	13 44 55	- 6 18.5	29.9	-0.76
17	—	4 52	10 06	—	72	14 31 33	- 9 50.6	29.7	-0.67
18	0 32	5 36	10 34	69	68	15 18 29	-12 56.1	29.6	-0.58
19	1 31	6 21	11 07	65	64	16 06 10	-15 28.7	29.6	-0.48
20	2 28	7 08	11 45	62	61	16 54 56	-17 22.3	29.6	-0.39
21	3 23	7 56	12 28	60	60	17 44 55	-18 31.2	29.8	-0.30
22	4 13	8 45	13 19	60	60	18 36 04	-18 50.5	30.0	-0.21
23	4 58	9 35	14 16	61	62	19 28 11	-18 16.4	30.3	-0.14
24	5 39	10 26	15 19	64	65	20 20 55	-16 47.4	30.6	-0.08
25	6 15	11 17	16 26	68	70	21 13 57	-14 25.0	31.0	-0.03
26	6 47	12 08	17 37	74	77	22 07 00	-11 14.2	31.4	-0.00
27	7 17	12 58	18 50	80	84	22 59 59	- 7 23.6	31.7	0.00
28	7 46	13 49	20 05	87	91	23 53 00	- 3 05.0	32.0	0.02

pierwsza kwadra:	4 II	4 ^h 19 ^m	1 II	1.2 ^h	Mars	2°N
pełnia:	11 II	0 ^h 33 ^m	2 II	8.3 ^h	Uran	3.5°N
ostatnia kwadra:	18 II	19 ^h 33 ^m	15 II	15.0 ^h	Jowisz	3°S
nów:	26 II	14 ^h 59 ^m	20 II	23.4 ^h	Saturn	4°S
			26 II	2.5 ^h	Merkury	2.5°S
perygeum:	6 II	13 ^h 58 ^m	26 II	21.1 ^h	Neptun	0.1°S
apogeum:	18 II	21 ^h 12 ^m	28 II	20.0 ^h	Wenus	10°N