

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
KWIECIEŃ 2021									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	23 50	3 06	7 37	54	59	15 37 31	-17 56.9	32.9	-0.85
2	—	4 05	8 12	—	52	16 37 29	-21 56.2	32.7	-0.76
3	1 08	5 05	8 58	50	49	17 38 52	-24 28.1	32.3	-0.66
4	2 15	6 05	9 55	48	48	18 40 25	-25 24.4	31.9	-0.55
5	3 07	7 02	11 02	49	51	19 40 33	-24 46.5	31.5	-0.44
6	3 46	7 57	12 15	54	55	20 38 01	-22 44.4	31.1	-0.33
7	4 16	8 48	13 28	60	62	21 32 07	-19 33.2	30.8	-0.24
8	4 39	9 35	14 41	67	70	22 22 50	-15 29.5	30.5	-0.16
9	4 58	10 19	15 52	74	78	23 10 38	-10 49.4	30.2	-0.09
10	5 14	11 01	17 00	83	87	23 56 15	- 5 47.0	30.0	-0.04
11	5 30	11 42	18 08	91	95	0 40 28	- 0 35.1	29.8	-0.01
12	5 45	12 23	19 15	99	103	1 24 08	4 35.0	29.6	-0.00
13	6 01	13 05	20 23	107	111	2 08 01	9 32.7	29.5	0.01
14	6 19	13 47	21 30	114	118	2 52 50	14 07.6	29.4	0.03
15	6 41	14 32	22 37	121	124	3 39 10	18 09.5	29.4	0.07
16	7 08	15 19	23 42	126	129	4 27 26	21 28.2	29.5	0.13
17	7 42	16 09	—	130	—	5 17 49	23 53.4	29.6	0.20
18	8 25	17 00	0 42	132	131	6 10 07	25 15.8	29.8	0.28
19	9 19	17 52	1 35	131	132	7 03 51	25 28.0	30.1	0.37
20	10 23	18 45	2 19	128	130	7 58 18	24 25.3	30.4	0.47
21	11 34	19 36	2 54	123	125	8 52 43	22 07.1	30.8	0.57
22	12 51	20 28	3 23	116	119	9 46 36	18 36.6	31.3	0.68
23	14 11	21 18	3 47	107	111	10 39 46	14 01.5	31.9	0.77
24	15 34	22 09	4 07	97	102	11 32 28	8 33.1	32.4	0.86
25	16 58	23 00	4 27	87	92	12 25 17	2 26.9	32.8	0.93
26	18 25	23 54	4 47	76	82	13 19 01	- 3 57.1	33.2	0.98
27	19 54	—	5 08	66	72	14 14 33	-10 14.5	33.4	1.00
28	21 23	0 50	5 34	57	63	15 12 38	-15 57.7	33.4	-0.99
29	22 49	1 49	6 06	51	55	16 13 30	-20 38.7	33.3	-0.95
30	1 19	2 51	6 48	53	50	17 16 38	-23 53.5	33.0	-0.88

ostatnia kwadra:	4 IV	10 ^h 03 ^m		6 IV	8.6 ^h	Saturn	4°N
nów:	12 IV	2 ^h 31 ^m		7 IV	7.3 ^h	Jowisz	4°N
pierwsza kwadra:	20 IV	6 ^h 59 ^m		9 IV	10.8 ^h	Neptun	4°N
pełnia:	27 IV	3 ^h 32 ^m		11 IV	6.1 ^h	Merkury	3°N
				12 IV	9.9 ^h	Wenus	3°N
apogeum:	14 IV	17 ^h 45 ^m		13 IV	11.8 ^h	Uran	2.5°N
perygeum:	27 IV	15 ^h 22 ^m		17 IV	12.2 ^h	Mars	0.1°N