

KSIEŹYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
STYCZEŃ 2021									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	18 32	1 44	9 56	124	125	8 23 37	23 01.3	30.9	-0.96
2	19 48	2 37	10 28	117	120	9 19 01	20 12.9	31.2	-0.91
3	21 06	3 29	10 53	109	112	10 12 53	16 18.3	31.4	-0.84
4	22 24	4 18	11 15	100	104	11 05 08	11 30.5	31.7	-0.76
5	23 42	5 07	11 35	90	95	11 56 11	6 04.8	31.9	-0.66
6	—	5 55	11 54	—	86	12 46 49	0 17.1	32.1	-0.55
7	1 02	6 44	12 14	81	77	13 38 00	- 5 35.4	32.3	-0.43
8	2 23	7 36	12 36	71	68	14 30 46	-11 14.4	32.4	-0.32
9	3 46	8 30	13 04	63	60	15 25 58	-16 19.7	32.5	-0.22
10	5 08	9 27	13 39	56	54	16 24 07	-20 29.7	32.5	-0.13
11	6 26	10 27	14 25	51	50	17 24 58	-23 23.8	32.4	-0.06
12	7 34	11 29	15 23	49	49	18 27 25	-24 46.3	32.3	-0.02
13	8 29	12 28	16 32	50	52	19 29 38	-24 31.6	32.0	-0.00
14	9 10	13 25	17 47	55	57	20 29 43	-22 45.3	31.7	0.01
15	9 41	14 17	19 03	61	63	21 26 22	-19 42.9	31.3	0.04
16	10 05	15 05	20 16	68	71	22 19 09	-15 43.8	30.9	0.09
17	10 25	15 50	21 27	76	79	23 08 22	-11 07.4	30.5	0.16
18	10 42	16 32	22 35	84	88	23 54 45	- 6 10.1	30.1	0.24
19	10 58	17 13	23 42	92	96	0 39 15	- 1 05.0	29.9	0.33
20	11 14	17 54	—	100	—	1 22 50	3 57.3	29.7	0.42
21	11 31	18 36	0 48	107	104	2 06 28	8 48.0	29.6	0.51
22	11 50	19 19	1 55	114	111	2 51 03	13 18.5	29.6	0.61
23	12 13	20 05	3 02	120	118	3 37 24	17 19.7	29.6	0.70
24	12 42	20 53	4 09	126	124	4 26 10	20 41.1	29.8	0.78
25	13 19	21 45	5 15	129	128	5 17 40	23 11.0	30.1	0.85
26	14 07	22 39	6 16	131	131	6 11 47	24 37.1	30.4	0.92
27	15 06	23 34	7 09	130	130	7 07 54	24 48.9	30.7	0.96
28	16 16	—	7 53	126	127	8 04 56	23 39.9	31.1	0.99
29	17 32	0 29	8 28	120	122	9 01 40	21 10.6	31.4	-1.00
30	18 51	1 22	8 56	112	115	9 57 11	17 28.1	31.7	-0.98
31	20 11	2 14	9 20	103	107	10 51 03	12 45.6	31.9	-0.94

ostatnia kwadra:	6 l	9 ^h 37 ^m	11 l	20.2 ^h	Wenus	1.5°N
nów:	13 l	5 ^h 00 ^m	13 l	21.0 ^h	Saturn	3°N
pierwsza kwadra:	20 l	21 ^h 01 ^m	14 l	1.5 ^h	Jowisz	3°N
pełnia:	28 l	19 ^h 16 ^m	14 l	8.3 ^h	Merkury	2°N
			17 l	6.3 ^h	Neptun	4°N
perygeum:	9 l	15 ^h 34 ^m	21 l	5.7 ^h	Mars	5°N
apogeum:	21 l	13 ^h 13 ^m	21 l	6.5 ^h	Uran	3°N