

KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
SIERPIEŃ 2022									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	8 11	15 01	21 35	102	98	11 13 00	9 54.8	30.2	0.10
2	9 22	15 43	21 49	93	89	11 58 18	4 25.4	30.4	0.17
3	10 36	16 27	22 04	84	79	12 43 42	- 1 20.3	30.7	0.25
4	11 51	17 12	22 20	74	70	13 30 17	- 7 10.0	31.1	0.35
5	13 11	18 01	22 40	65	62	14 19 10	-12 49.2	31.5	0.45
6	14 33	18 55	23 07	56	54	15 11 31	-18 00.5	31.9	0.56
7	15 57	19 54	23 44	49	48	16 08 14	-22 22.1	32.3	0.67
8	17 16	20 57	—	45	—	17 09 37	-25 29.0	32.7	0.77
9	18 22	22 03	0 36	45	45	18 14 46	-26 57.1	33.0	0.86
10	19 12	23 07	1 46	49	46	19 21 36	-26 30.2	33.2	0.94
11	19 47	—	3 10	56	51	20 27 20	-24 07.4	33.2	0.98
12	20 13	0 08	4 40	65	59	21 29 45	-20 04.6	33.1	1.00
13	20 33	1 05	6 09	75	69	22 27 53	-14 48.5	32.8	-0.99
14	20 50	1 56	7 34	85	79	23 21 54	- 8 48.6	32.4	-0.95
15	21 05	2 44	8 54	94	90	0 12 42	- 2 31.6	31.9	-0.88
16	21 21	3 30	10 12	104	100	1 01 23	3 40.7	31.4	-0.81
17	21 37	4 15	11 27	112	109	1 49 05	9 31.5	30.9	-0.72
18	21 56	5 01	12 41	120	117	2 36 47	14 47.7	30.5	-0.62
19	22 20	5 47	13 54	127	125	3 25 19	19 18.5	30.1	-0.52
20	22 50	6 35	15 03	132	130	4 15 09	22 54.6	29.8	-0.42
21	23 30	7 24	16 07	134	134	5 06 27	25 27.8	29.6	-0.33
22	—	8 15	17 02	—	135	5 58 57	26 51.4	29.5	-0.24
23	0 19	9 05	17 47	135	133	6 51 59	27 01.1	29.5	-0.17
24	1 18	9 56	18 22	133	130	7 44 44	25 56.4	29.5	-0.10
25	2 25	10 44	18 49	128	124	8 36 23	23 40.7	29.6	-0.05
26	3 36	11 31	19 10	122	117	9 26 24	20 20.8	29.8	-0.02
27	4 48	12 16	19 27	114	109	10 14 40	16 06.3	30.0	-0.00
28	6 00	12 59	19 42	105	100	11 01 26	11 08.3	30.2	0.01
29	7 13	13 42	19 56	96	91	11 47 15	5 38.8	30.5	0.03
30	8 26	14 26	20 11	86	82	12 32 54	- 0 09.5	30.7	0.07
31	9 42	15 11	20 26	77	73	13 19 19	- 6 03.2	31.0	0.14

pierwsza kwadra:	5 VIII	11 ^h 07 ^m		12 VIII	4.0 ^h	Saturn	4°N
pełnia:	12 VIII	1 ^h 36 ^m		14 VIII	9.9 ^h	Neptun	3°N
ostatnia kwadra:	19 VIII	4 ^h 36 ^m		15 VIII	9.7 ^h	Jowisz	2°N
nów:	27 VIII	8 ^h 17 ^m		18 VIII	14.7 ^h	Uran	0.6°S
				19 VIII	12.4 ^h	Mars	3°S
perygeum:	10 VIII	17 ^h 09 ^m		25 VIII	21.0 ^h	Wenus	4°S
apogeum:	22 VIII	21 ^h 53 ^m		29 VIII	10.9 ^h	Merkury	7°S