

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
SIERPIEŃ 2009									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	17 12	20 53	—	46	—	16 48 45	-26 16.9	29.7	0.79
2	17 56	21 43	0 35	48	46	17 42 04	-26 21.7	29.6	0.86
3	18 31	22 32	1 34	51	48	18 34 33	-25 13.7	29.5	0.92
4	18 57	23 19	2 40	57	53	19 25 30	-22 58.5	29.4	0.96
5	19 18	—	3 48	64	59	20 14 30	-19 44.5	29.5	0.99
6	19 36	0 03	4 57	71	66	21 01 31	-15 41.7	29.5	1.00
7	19 51	0 46	6 07	79	75	21 46 53	-11 01.1	29.6	-0.99
8	20 06	1 27	7 16	88	83	22 31 09	- 5 53.3	29.8	-0.96
9	20 20	2 08	8 25	96	92	23 15 04	- 0 29.3	30.0	-0.92
10	20 35	2 50	9 35	105	101	23 59 31	5 00.1	30.3	-0.86
11	20 53	3 34	10 48	113	110	0 45 26	10 23.0	30.6	-0.78
12	21 15	4 20	12 04	121	118	1 33 50	15 26.1	30.9	-0.69
13	21 45	5 10	13 22	128	125	2 25 37	19 53.4	31.3	-0.59
14	22 25	6 05	14 39	132	131	3 21 28	23 26.0	31.7	-0.48
15	23 21	7 04	15 50	134	134	4 21 24	25 43.4	32.1	-0.37
16	—	8 07	16 49	—	133	5 24 31	26 26.3	32.5	-0.26
17	0 32	9 10	17 35	132	128	6 29 01	25 22.6	32.9	-0.16
18	1 56	10 11	18 09	126	121	7 32 46	22 32.5	33.1	-0.09
19	3 25	11 10	18 34	118	112	8 34 03	18 09.4	33.2	-0.03
20	4 54	12 04	18 55	108	102	9 32 09	12 36.6	33.2	-0.00
21	6 21	12 56	19 14	97	92	10 27 15	6 22.1	33.0	0.01
22	7 45	13 46	19 31	86	82	11 20 05	- 0 06.7	32.6	0.04
23	9 07	14 35	19 49	76	72	12 11 35	- 6 25.5	32.2	0.09
24	10 27	15 24	20 09	67	64	13 02 43	-12 13.9	31.7	0.17
25	11 44	16 13	20 33	59	56	13 54 12	-17 16.0	31.2	0.26
26	12 58	17 04	21 03	52	51	14 46 32	-21 19.4	30.7	0.35
27	14 06	17 56	21 41	48	47	15 39 46	-24 14.8	30.3	0.45
28	15 05	18 47	22 29	46	46	16 33 35	-25 56.6	30.0	0.55
29	15 54	19 38	23 25	47	48	17 27 21	-26 22.7	29.7	0.65
30	16 32	20 28	24 33	50	52	18 20 17	-25 34.8	29.6	0.73
31	17 01	21 15	0 29	55	51	19 11 42	-23 38.1	29.5	0.81

pełnia: 6 VIII 0^h54^m
 III kwadra: 13 VIII 18^h55^m
 nów: 20 VIII 10^h02^m
 I kwadra: 27 VIII 11^h42^m

apogeum: 4 VIII 0^h43^m
 perygeum: 19 VIII 4^h54^m
 apogeum: 31 VIII 11^h05^m

6 VIII 22.0^h Jowisz 3°S
 7 VIII 2.3^h Neptun 3°S
 9 VIII 17.2^h Uran 6°S
 16 VIII 3.3^h Mars 3°S
 17 VIII 20.8^h Wenus 2°S
 22 VIII 5.9^h Saturn 7°N
 22 VIII 11.7^h Merkury 3°N