KSIĘŻYC

d	Wsch.	Kulm.	Zach.	A_W	A_Z	α	δ	D	F
	λ=0°		φ=50°			0^{h}UT			
LISTOPAD 2009									
	h m	h m	h m	–°	+°	h m s	° '	'	
1	15 31	22 55	5 19	112	109	0 52 03	10 58.3	31.0	0.96
2	15 54	23 47	6 37	120	117	1 42 43	15 59.8	31.4	0.99
3	16 26	——	7 56	127	125	2 37 03	20 20.0	31.7	-1.00
4	17 08	0 43	9 14	131	130	3 35 15	23 36.9	32.0	-0.98
5	18 04	1 43	10 24	132	132	4 36 39	25 30.0	32.2	-0.94
6	19 13	2 45	11 22	130	131	5 39 44	25 44.9	32.3	-0.87
7	20 33	3 46	12 06	125	127	6 42 26	24 18.1	32.4	-0.79
8	21 56	4 45	12 40	118	121	7 42 58	21 18.0	32.4	-0.69
9	23 18	5 39	13 05	109	112	8 40 23	17 01.7	32.3	-0.58
10	——	6 31	13 26	—	103	9 34 40	11 50.1	32.2	-0.46
11	0 39	7 20	13 44	99	94	10 26 26	6 04.1	32.1	-0.35
12	1 58	8 07	14 01	89	85	11 16 38	0 03.5	31.9	-0.25
13	3 17	8 54	14 19	79	75	12 06 18	- 5 53.5	31.7	-0.16
14	4 35	9 43	14 39	70	67	12 56 26	-11 29.8	31.4	-0.09
15	5 52	10 32	15 03	62	59	13 47 45	-16 28.9	31.2	-0.04
16	7 08	11 24	15 32	55	53	14 40 42	-20 35.2	30.9	-0.01
17	8 20	12 17	16 10	50	49	15 35 11	-23 35.6	30.6	0.00
18	9 23	13 10	16 57	47	47	16 30 36	-25 20.6	30.3	0.02
19	10 15	14 03	17 53	48	48	17 25 56	-25 46.5	30.1	0.05
20	10 56	14 54	18 56	50	52	18 20 04	-24 55.6	29.8	0.10
21	11 27	15 42	20 03	55	57	19 12 08	-22 55.3	29.7	0.16
22	11 52	16 27	21 11	61	63	20 01 43	-19 56.0	29.6	0.24
23	12 12	17 10	22 19	68	71	20 48 55	-16 09.0	29.5	0.33
24	12 29	17 52	23 27	75	79	21 34 11	-11 44.7	29.6	0.42
25	12 44	18 33	——	83	—	22 18 15	- 6 52.6	29.7	0.51
26	12 59	19 14	0 35	92	87	23 02 00	- 1 41.5	30.0	0.61
27	13 14	19 57	1 44	100	96	23 46 25	3 39.7	30.3	0.70
28	13 32	20 43	2 56	109	105	0 32 33	9 00.5	30.7	0.79
29	13 53	21 33	4 11	117	114	1 21 29	14 07.7	31.2	0.87
30	14 21	22 28	5 30	124	121	2 14 11	18 43.9	31.6	0.93

pełnia:	2 XI	19^h14^m
III kwadra:	9 XI	15^h56^m
nów:	16 XI	19^h14^m
I kwadra:	24 XI	21^h39^m
perygeum:	7 XI	7^h31^m
apogeum:	22 XI	20^h08^m

9 XI	6.1^h	Mars	3.5ºN
13 XI	1.2^h	Saturn	7.5ºN
15 XI	19.8^h	Wenus	6ºN
17 XI	10.7^h	Merkury	3ºN
23 XI	22.2^h	Jowisz	4ºS
24 XI	5.9^h	Neptun	3ºS
26 XI	17.6^h	Uran	6ºS