

KSIEZYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LUTY 2018									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	18 18	0 40	8 08	110	113	9 22 51	15 39.9	33.1	-1.00
2	19 36	1 37	8 43	103	106	10 21 51	11 57.8	32.7	-0.97
3	20 52	2 31	9 12	96	99	11 17 44	7 38.0	32.3	-0.92
4	22 04	3 21	9 38	88	92	12 10 46	3 01.0	31.8	-0.85
5	23 14	4 09	10 03	81	84	13 01 34	- 1 35.9	31.3	-0.76
6	—	4 56	10 28	—	78	13 50 53	- 5 59.1	30.8	-0.67
7	0 21	5 42	10 54	74	72	14 39 23	- 9 58.4	30.3	-0.57
8	1 26	6 28	11 22	68	66	15 27 42	-13 25.7	30.0	-0.47
9	2 28	7 14	11 54	64	62	16 16 16	-16 14.6	29.7	-0.37
10	3 27	8 01	12 31	60	59	17 05 23	-18 19.7	29.6	-0.28
11	4 22	8 48	13 13	58	58	17 55 06	-19 36.5	29.5	-0.20
12	5 11	9 36	14 02	58	58	18 45 17	-20 01.6	29.5	-0.13
13	5 55	10 24	14 56	59	60	19 35 40	-19 33.5	29.5	-0.08
14	6 33	11 11	15 55	62	63	20 25 53	-18 12.7	29.6	-0.03
15	7 06	11 59	16 58	66	68	21 15 40	-16 02.2	29.8	-0.01
16	7 35	12 45	18 03	71	73	22 04 51	-13 07.3	30.0	0.00
17	8 01	13 31	19 10	77	80	22 53 27	- 9 35.1	30.2	0.01
18	8 26	14 16	20 18	83	87	23 41 41	- 5 34.4	30.5	0.05
19	8 50	15 03	21 27	90	94	0 29 59	- 1 15.3	30.7	0.10
20	9 14	15 50	22 37	97	101	1 18 52	3 11.4	31.0	0.17
21	9 41	16 39	23 49	104	108	2 09 00	7 33.4	31.3	0.25
22	10 11	17 30	—	111	—	3 01 01	11 37.7	31.6	0.35
23	10 46	18 25	1 02	116	114	3 55 27	15 09.7	31.9	0.46
24	11 29	19 22	2 13	120	119	4 52 33	17 53.8	32.2	0.58
25	12 20	20 22	3 21	122	122	5 52 09	19 35.4	32.5	0.69
26	13 22	21 22	4 23	121	122	6 53 30	20 02.4	32.7	0.79
27	14 33	22 22	5 16	119	120	7 55 26	19 09.3	32.8	0.88
28	15 49	23 19	6 00	113	116	8 56 36	16 58.9	32.8	0.94

ostatnia kwadra:	7 II	15 ^h 54 ^m		7 II	19.8 ^h	Jowisz	4°S
nów:	15 II	21 ^h 05 ^m		9 II	5.3 ^h	Mars	4°S
pierwsza kwadra:	23 II	8 ^h 09 ^m		11 II	14.5 ^h	Saturn	3°S
				15 II	19.0 ^h	Merkury	1°S
				16 II	16.2 ^h	Wenus	0.6°N
apogeum:	11 II	14 ^h 16 ^m		17 II	3.3 ^h	Neptun	2°N
peryeum:	27 II	14 ^h 40 ^m		20 II	8.1 ^h	Uran	10°N