

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
MAJ 2020									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	11 18	19 10	2 15	120	122	9 05 30	20 17.3	31.7	0.52
2	12 38	20 03	2 46	112	115	10 01 51	16 37.9	32.2	0.63
3	14 00	20 56	3 13	104	108	10 57 16	11 56.1	32.6	0.73
4	15 23	21 49	3 36	94	99	11 51 57	6 27.1	32.9	0.83
5	16 47	22 41	3 58	84	89	12 46 27	0 29.8	33.1	0.91
6	18 13	23 36	4 21	74	80	13 41 30	- 5 33.4	33.2	0.97
7	19 39	—	4 46	65	70	14 37 47	-11 18.1	33.2	1.00
8	21 02	0 32	5 15	58	62	15 35 42	-16 19.5	32.9	-0.99
9	22 19	1 30	5 50	53	56	16 35 15	-20 15.7	32.6	-0.97
10	23 26	2 29	6 34	51	52	17 35 42	-22 50.7	32.1	-0.91
11	—	3 27	7 27	—	51	18 35 53	-23 57.2	31.6	-0.84
12	0 21	4 23	8 28	51	52	19 34 25	-23 37.5	31.1	-0.75
13	1 03	5 16	9 35	54	56	20 30 12	-22 01.4	30.7	-0.66
14	1 36	6 06	10 43	59	61	21 22 46	-19 22.4	30.3	-0.56
15	2 02	6 52	11 51	65	68	22 12 09	-15 54.8	29.9	-0.46
16	2 23	7 35	12 58	72	75	22 58 50	-11 51.8	29.7	-0.37
17	2 41	8 17	14 03	79	83	23 43 32	- 7 24.3	29.5	-0.28
18	2 58	8 57	15 08	87	90	0 27 04	- 2 42.1	29.5	-0.20
19	3 15	9 38	16 13	94	98	1 10 17	2 06.0	29.5	-0.13
20	3 32	10 19	17 20	102	106	1 53 59	6 51.2	29.6	-0.07
21	3 51	11 02	18 27	109	113	2 38 57	11 23.9	29.7	-0.03
22	4 13	11 48	19 36	116	119	3 25 53	15 33.1	29.9	-0.01
23	4 40	12 36	20 44	121	125	4 15 17	19 06.6	30.1	0.00
24	5 14	13 27	21 49	126	128	5 07 23	21 50.9	30.3	0.02
25	5 57	14 21	22 47	129	129	6 01 59	23 33.2	30.6	0.05
26	6 51	15 16	23 37	129	128	6 58 23	24 02.9	30.9	0.11
27	7 55	16 11	—	127	—	7 55 35	23 13.9	31.2	0.18
28	9 07	17 06	0 18	122	124	8 52 31	21 06.3	31.5	0.27
29	10 23	17 58	0 50	115	118	9 48 23	17 46.0	31.8	0.37
30	11 43	18 50	1 18	107	111	10 42 53	13 24.0	32.1	0.48
31	13 03	19 40	1 41	98	102	11 36 12	8 14.3	32.3	0.60

pełnia:	7 V	10 ^h 45 ^m	12 V	9.7 ^h	Jowisz	2°N
ostatnia kwadra:	14 V	14 ^h 03 ^m	12 V	18.2 ^h	Saturn	3°N
nów:	22 V	17 ^h 39 ^m	15 V	2.1 ^h	Mars	3°N
pierwsza kwadra:	30 V	3 ^h 30 ^m	16 V	15.1 ^h	Neptun	4°N
			20 V	15.6 ^h	Uran	4°S
perygeum:	6 V	3 ^h 02 ^m	24 V	2.7 ^h	Wenus	4°N
apogeum:	18 V	7 ^h 44 ^m	24 V	10.9 ^h	Merkury	3°N