

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
KWIECIEŃ 2020									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	10 06	18 30	1 59	129	128	6 28 38	23 36.6	30.9	0.46
2	11 08	19 27	2 52	127	128	7 25 59	23 27.2	31.4	0.56
3	12 20	20 24	3 37	123	125	8 24 26	21 56.0	31.9	0.67
4	13 39	21 20	4 14	117	119	9 23 01	19 03.0	32.4	0.77
5	15 03	22 15	4 45	108	112	10 21 00	14 54.9	32.8	0.86
6	16 28	23 10	5 11	99	103	11 18 05	9 45.5	33.2	0.93
7	17 54	—	5 35	89	94	12 14 23	3 54.7	33.4	0.98
8	19 21	0 04	5 58	79	84	13 10 23	- 2 13.4	33.5	1.00
9	20 46	0 58	6 22	69	75	14 06 42	- 8 12.9	33.3	-0.99
10	22 10	1 53	6 49	61	66	15 03 49	-13 38.2	33.0	-0.95
11	23 29	2 50	7 21	55	59	16 01 58	-18 07.2	32.6	-0.88
12	—	3 47	7 59	—	54	17 00 51	-21 23.3	32.1	-0.80
13	0 39	4 44	8 46	52	51	17 59 47	-23 17.3	31.6	-0.70
14	1 39	5 40	9 42	51	51	18 57 43	-23 47.8	31.1	-0.60
15	2 26	6 33	10 44	53	54	19 53 42	-23 00.3	30.6	-0.50
16	3 03	7 23	11 50	56	58	20 47 03	-21 04.8	30.2	-0.40
17	3 32	8 11	12 56	62	64	21 37 34	-18 13.2	29.9	-0.30
18	3 56	8 55	14 03	68	71	22 25 26	-14 37.9	29.7	-0.22
19	4 16	9 37	15 09	75	78	23 11 09	-10 30.0	29.5	-0.15
20	4 34	10 18	16 14	82	85	23 55 21	- 5 59.8	29.4	-0.09
21	4 51	10 59	17 19	89	93	0 38 44	- 1 16.8	29.4	-0.04
22	5 08	11 39	18 24	97	101	1 22 04	3 29.8	29.4	-0.01
23	5 26	12 21	19 30	104	108	2 06 03	8 10.4	29.5	-0.00
24	5 46	13 05	20 38	111	115	2 51 23	12 35.0	29.7	0.01
25	6 09	13 51	21 45	118	121	3 38 40	16 32.4	29.8	0.03
26	6 38	14 40	22 52	123	126	4 28 19	19 50.7	30.0	0.08
27	7 14	15 31	23 54	127	128	5 20 31	22 17.4	30.3	0.14
28	8 00	16 25	—	129	—	6 15 03	23 40.8	30.6	0.22
29	8 57	17 20	0 50	128	129	7 11 19	23 51.3	31.0	0.31
30	10 04	18 15	1 36	125	127	8 08 26	22 43.5	31.3	0.41

pierwsza kwadra:	1 IV	10 ^h 21 ^m		14 IV	23.1 ^h	Jowisz	2°N
pełnia:	8 IV	2 ^h 35 ^m		15 IV	9.4 ^h	Saturn	3°N
ostatnia kwadra:	14 IV	22 ^h 56 ^m		16 IV	4.6 ^h	Mars	2°N
nów:	23 IV	2 ^h 26 ^m		19 IV	7.2 ^h	Neptun	4°N
pierwsza kwadra:	30 IV	20 ^h 38 ^m		21 IV	17.4 ^h	Merkury	3°N
				23 IV	5.9 ^h	Uran	4°N
perygeum:	7 IV	18 ^h 07 ^m		26 IV	15.5 ^h	Wenus	6°N
apogeum:	20 IV	19 ^h 02 ^m					