

### MARS

M d 2024	Wsch.	Kulm.	Zach.	A	$\alpha$	$\delta$	D	F	V	$\Delta I$
	$\lambda=0$		$\varphi=50$		0 <sup>h</sup> UT					
	h m	h m	h m	°	h m	° ' "	"		m	°
I 0	7 11	11 08	15 05	52	17 45.0	- 23 56	3.9	0.99	1.4	-12
8	7 06	11 03	14 59	52	18 11.0	- 24 02	3.9	0.99	1.4	-15
16	7 00	10 57	14 55	52	18 37.3	- 23 51	3.9	0.99	1.4	-17
24	6 52	10 52	14 52	53	19 03.5	- 23 24	4.0	0.99	1.3	-19
II 1	6 42	10 47	14 52	54	19 29.8	- 22 41	4.0	0.98	1.3	-21
9	6 30	10 41	14 53	56	19 55.8	- 21 42	4.1	0.98	1.3	-23
17	6 17	10 35	14 54	58	20 21.6	- 20 27	4.1	0.98	1.3	-25
25	6 02	10 29	14 57	61	20 47.1	- 18 59	4.2	0.97	1.3	-27
III 4	5 46	10 23	15 00	63	21 12.2	- 17 18	4.3	0.97	1.3	-29
12	5 29	10 16	15 04	67	21 36.8	- 15 25	4.3	0.97	1.2	-30
20	5 11	10 09	15 07	70	22 01.1	- 13 23	4.4	0.96	1.2	-32
28	4 52	10 01	15 11	73	22 25.0	- 11 12	4.4	0.96	1.2	-34
IV 5	4 32	9 53	15 14	77	22 48.5	- 8 55	4.5	0.95	1.2	-36
13	4 12	9 45	15 17	81	23 11.7	- 6 33	4.6	0.95	1.2	-37
21	3 52	9 36	15 20	85	23 34.6	- 4 07	4.6	0.95	1.1	-39
29	3 32	9 27	15 23	88	23 57.4	- 1 40	4.7	0.94	1.1	-40
V 7	3 11	9 18	15 26	92	0 19.9	0 47	4.8	0.94	1.1	-42
15	2 50	9 09	15 29	96	0 42.4	3 13	4.9	0.93	1.1	-44
23	2 30	9 00	15 31	100	1 04.9	5 36	4.9	0.93	1.1	-45
31	2 10	8 51	15 33	103	1 27.4	7 54	5.0	0.92	1.1	-47
VI 8	1 50	8 42	15 35	107	1 49.9	10 06	5.1	0.92	1.0	-49
16	1 30	8 33	15 37	110	2 12.5	12 11	5.2	0.91	1.0	-50
24	1 11	8 24	15 38	113	2 35.2	14 08	5.3	0.91	1.0	-52
VII 2	0 52	8 15	15 39	116	2 58.0	15 55	5.4	0.91	1.0	-54
10	0 35	8 07	15 40	119	3 20.8	17 32	5.5	0.90	1.0	-56
18	0 18	7 58	15 39	121	3 43.7	18 58	5.6	0.90	0.9	-58
26	0 02	7 50	15 38	123	4 06.6	20 12	5.8	0.89	0.9	-60
VIII 3	23 45	7 41	15 36	125	4 29.4	21 14	5.9	0.89	0.9	-62
11	23 31	7 32	15 32	127	4 52.1	22 04	6.0	0.89	0.9	-65
19	23 17	7 23	15 27	128	5 14.4	22 42	6.2	0.88	0.8	-67
27	23 05	7 13	15 20	129	5 36.4	23 09	6.4	0.88	0.8	-70
IX 4	22 53	7 03	15 11	129	5 57.8	23 24	6.6	0.88	0.7	-72
12	22 42	6 52	15 01	129	6 18.6	23 29	6.9	0.88	0.7	-75
20	22 31	6 41	14 49	129	6 38.7	23 25	7.1	0.87	0.6	-79
28	22 20	6 28	14 35	129	6 57.8	23 14	7.4	0.87	0.5	-82
X 6	22 08	6 15	14 20	128	7 15.9	22 57	7.8	0.88	0.4	-86
14	21 56	6 00	14 03	128	7 32.7	22 36	8.1	0.88	0.3	-90
22	21 42	5 44	13 44	127	7 48.2	22 13	8.6	0.88	0.2	-94
30	21 27	5 26	13 24	126	8 02.1	21 50	9.1	0.89	0.1	-99
XI 7	21 09	5 07	13 02	126	8 14.1	21 30	9.6	0.89	-0.0	-104
15	20 48	4 45	12 39	125	8 24.0	21 16	10.2	0.90	-0.2	-110
23	20 25	4 21	12 14	125	8 31.4	21 11	10.9	0.91	-0.3	-116
XII 1	19 57	3 54	11 48	125	8 35.9	21 16	11.6	0.93	-0.5	-123
9	19 24	3 24	11 19	126	8 37.2	21 34	12.4	0.94	-0.7	-131
17	18 46	2 50	10 49	127	8 34.9	22 05	13.1	0.96	-0.9	-140
25	18 04	2 12	10 16	128	8 28.8	22 48	13.8	0.98	-1.0	-150
2025 I 2	17 17	1 31	9 40	130	8 19.1	23 39	14.3	0.99	-1.2	-160