MARS

M d 2017	Wsch.	Kulm.	Zach.	A	α	δ	D	F	V	Δl
	λ=0		φ=50		0^hUT					
	h m	h m	h m	°	h m	° '	"		m	°
I 0	10 43	16 03	21 23	77	22 42.9	- 9 07	5.7	0.90	0.9	59
8	10 22	15 53	21 26	81	23 05.2	- 6 41	5.5	0.91	0.9	57
16	10 00	15 44	21 28	85	23 27.3	- 4 13	5.4	0.91	1.0	55
24	9 39	15 34	21 31	88	23 49.2	- 1 43	5.2	0.92	1.1	53
II 1	9 17	15 25	21 33	92	0 10.9	0 46	5.1	0.92	1.1	50
9	8 55	15 15	21 35	96	0 32.6	3 14	4.9	0.93	1.2	48
17	8 34	15 05	21 36	100	0 54.2	5 39	4.8	0.94	1.2	46
25	8 13	14 55	21 38	104	1 15.9	7 59	4.7	0.94	1.3	44
III 5	7 52	14 45	21 40	107	1 37.7	10 14	4.5	0.95	1.3	42
13	7 31	14 36	21 41	111	1 59.6	12 23	4.4	0.95	1.4	40
21	7 11	14 26	21 42	114	2 21.7	14 23	4.3	0.96	1.4	37
29	6 52	14 17	21 43	117	2 44.1	16 15	4.2	0.96	1.5	35
IV 6	6 33	14 08	21 44	120	3 06.6	17 57	4.1	0.97	1.5	33
14	6 16	13 59	21 44	122	3 29.4	19 28	4.1	0.97	1.5	31
22	5 59	13 51	21 43	125	3 52.4	20 48	4.0	0.98	1.6	28
30	5 44	13 42	21 42	127	4 15.6	21 56	3.9	0.98	1.6	26
V 8	5 29	13 34	21 40	128	4 38.9	22 51	3.9	0.98	1.6	24
16	5 17	13 26	21 36	129	5 02.3	23 33	3.8	0.99	1.6	21
24	5 05	13 18	21 31	130	5 25.8	24 01	3.7	0.99	1.7	19
VI 1	4 56	13 10	21 24	131	5 49.3	24 17	3.7	0.99	1.7	17
9	4 47	13 02	21 16	131	6 12.6	24 19	3.7	0.99	1.7	15
17	4 40	12 53	21 07	130	6 35.8	24 08	3.6	1.00	1.7	12
25	4 34	12 45	20 55	130	6 58.7	23 45	3.6	1.00	1.7	10
VII 3	4 29	12 36	20 42	128	7 21.4	23 09	3.6	1.00	1.7	7
11	4 25	12 27	20 28	127	7 43.7	22 22	3.5	1.00	1.7	5
19	4 22	12 17	20 12	125	8 05.6	21 24	3.5	1.00	1.7	3
27	4 19	12 07	19 55	123	8 27.1	20 17	3.5	1.00	1.7	-1
VIII 4	4 16	11 57	19 36	121	8 48.3	19 00	3.5	1.00	1.7	-3
12	4 14	11 46	19 17	119	9 09.0	17 35	3.5	1.00	1.7	-5
20	4 11	11 35	18 57	116	9 29.4	16 03	3.5	1.00	1.8	-8
28	4 09	11 23	18 37	113	9 49.4	14 24	3.5	1.00	1.8	-10
IX 5	4 06	11 11	18 16	110	10 09.1	12 39	3.6	1.00	1.8	-13
13	4 03	10 59	17 54	107	10 28.4	10 50	3.6	0.99	1.8	-16
21	4 00	10 47	17 32	104	10 47.6	8 57	3.6	0.99	1.8	-18
29	3 57	10 34	17 10	101	11 06.5	7 00	3.7	0.99	1.8	-21
X 7	3 54	10 21	16 48	98	11 25.2	5 01	3.7	0.98	1.8	-24
15	3 51	10 08	16 25	95	11 43.8	3 01	3.8	0.98	1.8	-27
23	3 48	9 55	16 02	92	12 02.4	1 00	3.8	0.98	1.8	-30
31	3 44	9 42	15 40	89	12 20.9	- 1 01	3.9	0.97	1.8	-33
XI 8	3 41	9 29	15 17	86	12 39.4	- 3 01	4.0	0.97	1.8	-36
16	3 37	9 16	14 55	83	12 58.0	- 5 00	4.0	0.96	1.7	-39
24	3 34	9 04	14 33	80	13 16.7	- 6 57	4.1	0.96	1.7	-42
XII 2	3 30	8 51	14 11	77	13 35.6	- 8 50	4.3	0.95	1.7	-45
10	3 27	8 38	13 49	74	13 54.6	- 10 39	4.4	0.95	1.6	-48
18	3 24	8 26	13 28	71	14 13.8	- 12 24	4.5	0.94	1.6	-51
26	3 20	8 14	13 07	68	14 33.2	- 14 03	4.7	0.94	1.5	-54
2018 I 3	3 16	8 02	12 47	66	14 52.9	- 15 36	4.8	0.93	1.5	-57