

Mars Express MaRS Occultation Season 24

No	orbit	ArchVID	DOY	date	I/E	start T	stop T	G/S	lon	lat	Ls	SZA	LTST	radius	equipot
1	23174	4243	126	2022-05-06	I	11:18:44	12:04:04	63	32.4	6.7	222.2	51.45	8.91	3395.7	3395.9
2	23177	4244	127	2022-05-07	I	08:03:35	08:50:37	63	95.5	19.6	222.7	53.47	9.34	3390.7	3394.4
3	23180	4245	128	2022-05-08	I	05:22:29	05:45:38	59	154.7	26.5	223.3	55.66	9.61	3391.0	3392.2
4	23181	4247	128	2022-05-08	I	12:05:32	12:40:53	65	54.3	28.4	223.4	56.43	9.69	3392.1	3392.4
5	23184	4248	129	2022-05-09	I	08:51:19	09:35:44	63	112.4	33.2	224.0	58.57	9.91	3386.4	3391.2
6	23187	4249	130	2022-05-10	I	05:44:47	06:30:52	65	170.3	37.2	224.5	60.69	10.12	3385.1	3389.0
7	23187	4250	130	2022-05-10	E	07:26:43	07:46:45	59	117.0	-34.7	224.6	62.09	7.49	3390.8	3389.7
8	23188	4251	130	2022-05-10	I	13:08:40	13:30:48	84	69.6	38.5	224.7	61.42	10.20	3386.9	3389.6
9	23191	4252	131	2022-05-11	I	09:38:23	10:25:17	65	127.1	41.9	225.3	63.46	10.40	3383.6	3388.5
10	23194	4253	132	2022-05-12	I	07:01:11	07:23:14	59	184.7	44.9	225.8	65.47	10.61	3382.5	3386.7
11	23198	4254	133	2022-05-13	I	10:58:56	11:18:45	59	141.5	48.5	226.5	68.12	10.90	3382.0	3386.1
12	23201	4255	134	2022-05-14	I	07:53:19	08:15:19	65	199.1	50.9	227.1	70.05	11.13	3380.8	3384.9
13	23204	4256	135	2022-05-15	I	04:50:23	05:12:23	65	257.0	53.2	227.6	71.99	11.37	3383.4	3384.9
14	23205	4257	135	2022-05-15	I	11:23:19	12:09:59	63	156.2	53.8	227.8	72.58	11.44	3380.1	3384.2
15	23208	4258	136	2022-05-16	I	08:18:01	09:07:16	63	214.1	55.8	228.3	74.44	11.69	3380.4	3383.7
16	23211	4259	137	2022-05-17	E	06:59:41	07:52:20	59	164.5	-55.1	228.9	74.35	6.05	3386.3	3384.0
17	23213	4260	137	2022-05-17	I	19:18:06	20:03:09	14	71.0	58.7	229.3	77.51	12.15	3379.6	3383.4
18	23218	4262	139	2022-05-19	I	06:04:13	07:01:04	59	288.6	61.1	230.2	80.50	12.64	3378.1	3382.2
19	23225	4263	141	2022-05-21	I	07:34:38	07:56:22	59	305.9	63.5	231.5	84.57	13.40	3376.7	3381.6
20	23228	4264	142	2022-05-22	I	04:32:17	04:54:17	65	5.0	64.3	232.0	86.25	13.73	3376.8	3381.5
21	23232	4265	143	2022-05-23	I	08:29:59	08:52:01	59	324.2	65.0	232.7	88.54	14.22	3376.1	3381.2
22	23235	4266	144	2022-05-24	I	05:28:20	05:50:23	59	23.4	65.3	233.3	90.19	14.57	3376.9	3381.4
23	23236	4267	144	2022-05-24	I	12:27:47	12:49:47	14	283.3	65.4	233.5	90.76	14.70	3377.1	3381.2
24	23239	4268	145	2022-05-25	I	09:26:09	09:48:06	65	342.7	65.5	234.0	92.43	15.06	3376.0	3381.2
25	23242	4269	146	2022-05-26	I	06:24:34	06:46:34	65	41.9	65.4	234.6	94.05	15.42	3377.2	3381.6
26	23245	4270	147	2022-05-27	I	03:23:00	03:45:07	32	101.0	65.1	235.1	95.68	15.77	3377.5	3381.7
27	23246	4271	147	2022-05-27	I	10:22:36	10:44:36	65	0.8	65.0	235.3	96.24	15.89	3376.5	3381.4
28	23249	4272	148	2022-05-28	I	07:21:11	07:43:11	63	59.6	64.5	235.9	97.83	16.21	3377.6	3381.9
29	23253	4274	149	2022-05-29	I	11:19:20	11:41:20	63	17.8	63.6	236.6	99.98	16.64	3377.3	3381.8
30	23256	4275	150	2022-05-30	I	08:18:01	08:40:01	63	76.0	62.8	237.1	101.54	16.93	3378.4	3382.2
31	23262	4276	152	2022-06-01	I	02:15:25	02:37:32	32	191.8	60.8	238.2	104.70	17.47	3377.9	3382.1
32	23263	4277	152	2022-06-01	I	09:15:18	09:37:19	59	91.0	60.5	238.4	105.19	17.55	3378.8	3383.0
33	23266	4278	153	2022-06-02	I	06:17:58	06:35:58	62	148.4	59.3	239.0	106.74	17.79	3378.5	3382.7
34	23269	4279	154	2022-06-03	I	03:12:37	03:34:45	32	205.6	58.1	239.5	108.27	18.02	3379.0	3382.9
35	23270	4280	154	2022-06-03	I	10:12:31	10:34:26	59	104.5	57.7	239.7	108.75	18.08	3379.3	3383.8
36	23273	4281	155	2022-06-04	I	07:11:18	07:33:18	65	161.4	56.3	240.3	110.27	18.29	3379.3	3383.4
37	23276	4282	156	2022-06-05	I	04:10:10	04:32:10	65	218.0	54.9	240.8	111.77	18.48	3380.7	3384.0
38	23284	4284	158	2022-06-07	I	12:09:15	12:29:29	59	128.2	51.0	242.3	115.62	18.92	3380.9	3385.6
39	23285	4285	158	2022-06-07	I	19:07:14	19:29:14	43	26.9	50.4	242.5	116.13	18.98	3380.0	3385.5
40	23287	4286	159	2022-06-08	I	09:06:38	09:28:38	63	184.2	49.3	242.9	117.04	19.07	3381.2	3385.4
41	23294	4287	161	2022-06-10	I	10:04:33	10:26:33	63	194.4	45.4	244.2	120.24	19.39	3382.5	3386.6
42	23297	4288	162	2022-06-11	I	07:03:37	07:25:37	63	250.0	43.7	244.7	121.56	19.51	3392.8	3388.3
43	23303	4290	164	2022-06-13	I	01:02:01	01:24:02	43	0.9	40.1	245.8	124.08	19.74	3384.9	3388.4
44	23304	4291	164	2022-06-13	I	08:01:45	08:23:45	59	259.4	39.4	246.0	124.51	19.78	3392.1	3389.6
45	23307	4292	165	2022-06-14	I	05:00:57	05:22:57	62	314.7	37.6	246.6	125.68	19.88	3385.2	3389.1
46	23308	4293	165	2022-06-14	I	12:00:47	12:22:47	63	213.1	36.9	246.7	126.09	19.92	3385.5	3389.5
47	23314	4295	167	2022-06-16	I	05:59:10	06:21:10	62	323.5	33.0	247.8	128.27	20.11	3386.1	3390.3
48	23318	4296	168	2022-06-17	I	09:58:12	10:20:12	63	277.1	30.2	248.6	129.62	20.24	3392.3	3392.0
49	23320	4297	168	2022-06-17	I	23:57:45	00:19:45	32	73.8	28.7	249.0	130.25	20.30	3390.6	3392.4
50	23324	4298	170	2022-06-19	I	03:56:50	04:18:50	63	27.1	25.8	249.7	131.37	20.41	3391.2	3392.8
51	23325	4299	170	2022-06-19	I	10:56:32	11:18:32	14	285.5	25.0	249.9	131.63	20.44	3392.6	3393.0
52	23327	4300	171	2022-06-20	I	00:56:07	01:18:07	32	82.2	23.5	250.3	132.12	20.50	3391.4	3393.6
53	23331	4301	172	2022-06-21	I	04:55:16	05:17:16	63	35.5	20.3	251.0	132.94	20.61	3393.9	3394.0
54	23333	4302	172	2022-06-21	I	18:54:49	19:16:49	43	192.1	18.7	251.4	133.28	20.66	3390.1	3393.5