

Mars Express MaRS Occultation Season 1

No	orbit	ArchVID	DOY	date	I/E	start T	stop T	G/S	lon	lat	Ls	SZA	LTST	radius	aeroid
1	264	17	93	2004-04-02	I	11:05:04	11:47:11	32	56.8	25.0	13.6	109.10	4.39	3393.8	3393.1
2	267	18	94	2004-04-03	I	09:47:10	10:30:09	32	85.7	29.7	14.1	107.00	4.44	3388.7	3392.0
3	279	21	98	2004-04-07	I	05:00:20	05:30:04	32	200.5	44.8	15.9	100.30	4.60	3382.8	3386.7
4	287	26	100	2004-04-09	I	17:55:00	18:04:41	65	36.6	53.4	17.1	95.30	4.73	3380.9	3384.6
5	295	30	103	2004-04-12	I	06:20:26	06:50:15	32	231.7	60.0	18.3	92.00	4.82	3379.3	3382.5
6	308	34	107	2004-04-16	I	09:02:19	09:26:05	32	234.5	70.4	20.2	87.00	5.01	3375.8	3380.0
7	311	36	108	2004-04-17	I	07:29:35	08:10:24	32	262.9	72.6	20.6	85.90	5.06	3375.0	3379.5
8	314	38	109	2004-04-18	I	06:25:58	06:56:35	32	291.6	74.8	21.1	85.10	5.10	3374.2	3379.3
9	411	45	138	2004-05-17	I	19:02:00	19:16:10	65	206.5	53.6	34.7	70.00	17.01	3380.4	3384.1
10	414	46	139	2004-05-18	I	15:12:00	15:27:06	65	272.0	52.5	35.1	69.90	17.02	3383.1	3384.9
11	427	48	143	2004-05-22	I	05:59:11	06:57:34	32	75.4	47.6	36.7	69.50	17.04	3383.0	3386.7
12	436	52	145	2004-05-24	I	19:15:00	19:27:16	65	271.7	44.4	37.9	69.60	17.07	3387.3	3387.7
13	438	53	146	2004-05-25	I	07:38:29	09:04:54	32	75.3	43.6	38.1	69.50	17.06	3384.4	3387.9
14	441	54	147	2004-05-26	I	03:48:54	05:13:50	32	140.7	42.6	38.5	69.50	17.07	3383.6	3387.7
15	445	55	148	2004-05-27	I	06:45:33	07:59:52	32	107.9	41.2	39.0	69.70	17.09	3383.8	3388.8
16	450	56	149	2004-05-28	I	17:25:00	17:37:50	65	336.9	39.5	39.6	69.70	17.10	3383.9	3388.4
17	452	57	150	2004-05-29	I	05:48:08	07:10:06	74	140.5	38.9	39.9	69.80	17.10	3384.7	3388.9
18	456	58	151	2004-05-30	I	08:41:08	10:06:31	32	107.7	37.6	40.4	69.80	17.11	3384.9	3389.8
19	457	60	151	2004-05-30	I	16:30:00	16:42:56	65	9.6	37.3	40.5	69.90	17.11	3386.7	3389.2
20	463	62	153	2004-06-01	I	08:04:01	09:55:53	32	140.4	35.3	41.3	70.00	17.12	3385.9	3389.9
21	466	63	154	2004-06-02	I	03:58:09	05:15:16	32	205.8	34.4	41.6	70.10	17.12	3386.0	3390.0
22	470	64	155	2004-06-03	I	06:52:14	08:17:22	32	173.0	33.1	42.1	70.20	17.12	3386.2	3390.0
23	473	65	156	2004-06-04	I	03:17:32	04:25:26	32	238.4	32.3	42.5	70.20	17.11	3393.2	3391.6
24	489	69	160	2004-06-08	I	15:43:00	15:56:57	65	107.2	27.5	44.5	70.90	17.14	3388.2	3392.5
25	495	70	162	2004-06-10	I	07:12:37	08:18:35	32	238.1	25.9	45.3	71.20	17.13	3394.4	3393.4
26	500	71	163	2004-06-11	I	17:40:00	17:55:46	65	107.1	24.4	45.9	71.40	17.15	3389.2	3393.2
27	502	72	164	2004-06-12	I	06:04:29	07:25:25	32	270.8	24.1	46.1	71.50	17.15	3394.4	3393.6
28	507	74	165	2004-06-13	I	16:50:00	17:00:21	65	139.8	22.7	46.8	71.80	17.15	3394.3	3393.3
29	509	75	166	2004-06-14	I	04:36:32	06:29:12	32	303.4	22.1	47.0	71.90	17.12	3392.5	3393.2
30	510	76	166	2004-06-14	I	13:00:00	13:10:59	65	205.2	21.8	47.1	71.90	17.15	3389.3	3393.1
31	513	77	167	2004-06-15	I	08:25:30	09:36:13	32	270.6	21.2	47.5	72.10	17.12	3395.5	3394.3
32	515	78	167	2004-06-15	I	22:38:00	22:48:30	15	74.2	20.6	47.8	72.20	17.15	3393.8	3394.2
33	520	79	169	2004-06-17	I	08:05:23	08:27:32	32	303.2	19.3	48.4	72.40	17.15	3392.9	3393.8
34	523	80	170	2004-06-18	I	04:17:16	04:39:57	32	8.7	18.6	48.8	72.60	17.12	3392.3	3394.0
35	525	81	170	2004-06-18	I	17:50:00	18:03:34	63	172.3	18.0	49.0	72.70	17.15	3390.6	3393.6
36	526	82	171	2004-06-19	I	00:32:00	00:47:07	15	74.1	17.8	49.1	72.80	17.15	3393.9	3394.7
37	527	83	171	2004-06-19	I	07:06:31	07:35:38	32	335.9	17.5	49.3	72.80	17.15	3390.9	3393.8
38	528	84	171	2004-06-19	I	14:02:00	14:14:07	65	237.7	17.4	49.4	72.80	17.15	3396.2	3395.4
39	530	-999	172	2004-06-20	I	03:00:19	03:42:00	32	41.3	16.9	49.6	73.00	17.12	3394.6	3394.7
40	541	88	175	2004-06-23	I	05:15:39	05:45:38	32	41.2	14.3	51.0	73.60	17.15	3395.1	3395.1
41	543	89	175	2004-06-23	I	18:55:00	19:06:29	65	204.8	13.7	51.2	73.70	17.15	3391.0	3394.6
42	545	91	176	2004-06-24	I	08:10:10	08:42:29	32	8.4	13.3	51.5	73.80	17.15	3393.4	3394.8
43	546	92	176	2004-06-24	I	15:05:00	15:16:48	65	270.3	13.3	51.6	73.90	17.15	3396.9	3395.8
44	550	93	177	2004-06-25	I	18:00:00	18:10:48	15	237.5	12.3	52.1	74.10	17.15	3398.6	3396.1
45	559	94	180	2004-06-28	I	06:17:12	06:49:10	32	73.7	10.3	53.2	74.70	17.14	3396.5	3395.8
46	560	95	180	2004-06-28	I	13:15:00	13:25:29	65	335.5	10.0	53.3	74.70	17.15	3392.4	3394.9
47	563	96	181	2004-06-29	I	09:12:11	09:40:15	32	41.0	9.5	53.7	74.90	17.14	3396.6	3395.7
48	564	97	181	2004-06-29	I	16:09:00	16:19:19	65	302.8	9.2	53.8	74.90	17.15	3394.8	3395.3
49	566	98	182	2004-06-30	I	05:22:08	05:53:01	32	106.4	8.7	54.1	75.10	17.13	3395.1	3395.8
50	568	99	182	2004-06-30	I	19:03:00	19:13:07	15	270.1	8.4	54.3	75.20	17.15	3398.1	3396.4
51	570	100	183	2004-07-01	I	08:14:26	08:49:59	32	73.7	8.0	54.6	75.30	17.14	3397.2	3396.0
52	593	106	189	2004-07-07	I	19:07:00	19:19:23	65	335.2	3.3	57.4	76.60	17.13	3393.4	3395.3
53	600	107	191	2004-07-09	I	18:12:00	18:23:21	65	8.0	2.0	58.3	77.00	17.12	3394.6	3395.7
54	602	108	192	2004-07-10	I	07:25:10	08:00:05	32	171.6	1.5	58.5	77.20	17.12	3392.3	3395.3
55	603	109	192	2004-07-10	I	14:22:00	14:33:41	65	73.4	1.5	58.6	77.20	17.12	3397.7	3396.3
56	605	110	193	2004-07-11	I	03:35:02	04:05:57	32	237.1	1.2	58.9	77.30	17.12	3401.4	3397.0
57	618	111	196	2004-07-14	I	19:14:00	19:25:03	15	40.6	-1.3	60.5	78.10	17.11	3397.0	3396.2
58	620	112	197	2004-07-15	I	08:33:37	09:06:01	32	204.2	-1.7	60.7	78.20	17.10	3395.5	3395.6
59	621	113	197	2004-07-15	I	15:23:00	15:35:23	65	106.0	-1.9	60.8	78.30	17.10	3396.0	3396.1
60	625	114	198	2004-07-16	I	18:18:00	18:29:04	65	73.2	-2.5	61.3	78.50	17.10	3398.2	3396.3
61	632	115	200	2004-07-18	I	17:20:00	17:32:57	65	105.9	-3.9	62.2	78.90	17.09	3396.2	3396.1
62	639	116	202	2004-07-20	I	16:25:00	16:36:42	63	138.6	-5.1	63.0	79.30	17.08	3393.2	3395.6
63	646	117	204	2004-07-22	I	15:28:00	15:40:20	65	171.3	-6.5	63.9	79.70	17.07	3392.3	3395.2
64	653	118	206	2004-07-24	I	14:32:00	14:43:58	65	204.0	-7.6	64.8	80.10	17.06	3394.3	3395.2
65	654	119	206	2004-07-24	I	21:15:00	21:27:24	15	105.9	-7.7	64.9	80.20	17.06	3396.9	3395.8
66	657	120	207	2004-07-25	I	17:25:00	17:37:33	15	171.3	-8.3	65.3	80.40	17.05	3392.3	3395.0
67	660	121	208	2004-07-26	I	13:36:00	13:47:35	65	237.0	-8.2	65.6	80.50	17.07	3408.4	3396.9
68	667	122	210	2004-07-28	I	12:40:00	12:51:27	65	269.5	-9.8	66.5	80.90	17.05	3401.7	3396.2
69	671	123	211	2004-07-29	I	15:33:00	15:45:02	65	236.8	-10.2	67.0	81.10	17.05	3406.2	3396.6
70	679	125	213	2004-07-31	I	21:20:00	21:32:17	15	171.0	-12.2	67.9	81.60	17.01	3392.6	3394.6
71	684	126	215	2004-08-02	I	06:45:08	07:16:09	32	40.2	-12.8	68.6	82.00	16.99	3397.9	3395.3
72	689	129	216	2004-08-03	I	16:34:00	16:46:04	65	269.2	-13.6	69.2	82.20	17.00	3401.1	3395.7
73	694	131	218	2004-08-05	I	02:00:44	02:23:36	32	138.2	-14.7	69.8	82.60	16.94	3396.4	3394.6
74	696	132	218	2004-08-05	I	15:38:00	15:49:42	65	301.8	-15.0	70.0	82.50	16.98	3396.0	3394.5
75	705	135	221	2004-08-08	I	03:55:07	04:28:04	32	138.0	-16.6	71.1	83.00	16.96	3396.2	3394.3
76	709	137	222	2004-08-09	I	06:51:02	07:21:42	32	105.2	-17.4	71.6	83.30	16.94	3396.0	3394.6
77	727	142	227	2004-08-14	I	07:51:00	08:22:23	32	137.6	-20.8	73.8	84.30	16.89	3395.7	3393.6