

March 25th, 2006				March 26, 2006				San Jose Astronomical Association							
Sunset		18:24	Moonrise		4:39		Messier Marathon 2006 Henry Coe State Park Morgan Hill, California Lat: N37 11.250 Lon: W121 33.016 Elev: 2600 ft.								
Civil Twilight		18:50	Astro Twilight		4:34										
Nautical Twilight		19:21	Nautical Twilight		5:06										
Astro Twilight		19:25	Civil Twilight		5:36										
			Sunrise		6:02										
No.	M#	NGC#	Con	Type	ra		dec		B	dim	d	HCSP Set	HCSP Rise	HCSP Transit	Viewed Time
					ra	min	deg	min							
1	M77	1068	Cet	5	2	42.7	0	1	8.9	7x6	60000	20:38	-	14:36	
2	M74	628	Psc	5	1	36.7	15	47	9.4	10.2x9.5	35000	20:22	-	13:30	
3	M33	598	Tri	5	1	33.9	30	39	5.7	73x45	3000	21:17	5:38	13:28	
4	M31	224	And	5	0	42.7	41	16	3.4	178x63	2900	21:27	3:46	12:37	
5	M32	221	And	6	0	42.7	40	52	8.1	8x6	2900	21:24	3:49	12:37	
6	M110	205	And	6	0	40.4	41	41	8.5	17x10	2900	21:28	3:40	12:34	
7	M52	7654	Cas	1	23	24.2	61	35	7.3	13	5	-	-	11:18	
8	M103	581	Cas	1	1	33.2	60	42	7.4	6	8.5	-	-	13:27	
9	M76	650	Per	3	1	42.4	51	34	10.1	2.7x1.8	3.4	0:49	2:27	13:36	
10	M34	1039	Per	1	2	42	42	47	5.5	35	1.4	23:38	5:33	14:36	
11	M45	-	Tau	1	3	47	24	7	1.6	110	0.38	23:02	-	15:40	
12	M79	1904	Lep	2	5	24.5	-24	33	7.7	8.7	42.1	21:59	-	17:18	
13	M42	1976	Ori	4	5	35.4	-5	27	4	85x60	1.6	23:14	-	17:28	
14	M43	1982	Ori	4	5	35.6	-5	16	9	20x15	1.6	23:15	-	17:29	
15	M78	2068	Ori	4	5	46.7	0	3	8.3	8x6	1.6	23:42	-	17:40	
16	M1	1952	Tau	9	5	34.5	22	1	8.4	6x4	6.3	0:45	-	17:28	
17	M35	2168	Gem	1	6	8.9	24	20	5.3	28	2.8	1:28	-	18:02	
18	M37	2099	Aur	1	5	52.4	32	33	6.2	24	4.4	1:48	-	17:46	
19	M36	1960	Aur	1	5	36.1	34	8	6.3	12	4.1	1:40	-	17:29	
20	M38	1912	Aur	1	5	28.4	35	50	7.4	21	4.2	1:42	-	17:22	
21	M41	2287	CMa	1	6	46	-20	44	4.6	38	2.3	23:34	-	18:39	
22	M93	2447	Pup	1	7	44.6	-23	52	6	22	3.6	0:25	-	19:37	
23	M47	2422	Pup	1	7	36.6	-14	30	5.2	30	1.6	0:50	-	19:29	
24	M46	2437	Pup	1	7	41.8	-14	49	6	27	5.4	0:54	-	19:34	
25	M50	2323	Mon	1	7	3.2	-8	20	6.3	16	3	0:36	-	18:56	
26	M48	2548	Hya	1	8	13.8	-5	48	5.5	54	1.5	1:55	-	20:06	
27	M44	2632	Cnc	1	8	40.1	19	59	3.7	95	0.577	3:43	-	20:33	
28	M67	2682	Cnc	1	8	50.4	11	49	6.1	30	2.7	3:25	-	20:43	
29	M95	3351	Leo	5	10	44	11	42	9.7	4.4x3.3	38000	5:18	-	22:36	
30	M96	3368	Leo	5	10	46.8	11	49	9.2	6x4	38000	5:21	-	22:39	
31	M105	3379	Leo	6	10	47.8	12	35	9.3	2	38000	5:25	-	22:40	
32	M65	3623	Leo	5	11	18.9	13	5	9.3	8x1.5	35000	5:57	-	23:11	
33	M66	3627	Leo	5	11	20.2	12	59	8.9	8x2.5	35000	5:58	-	23:12	
34	M81	3031	UMa	5	9	55.6	69	4	6.9	21x10	12000	-	-	21:48	
35	M82	3034	UMa	7	9	55.8	69	41	8.4	9x4	12000	-	-	21:49	
36	M97	3587	UMa	3	11	14.8	55	1	9.9	3.4x3.3	2.6	-	-	23:07	
37	M108	3556	UMa	5	11	11.5	55	40	10	8x1	45000	-	-	23:04	
38	M109	3992	UMa	5	11	57.6	53	23	9.8	7x4	55000	-	-	23:50	
39	M40	Win4	UMa	C	12	22.4	58	5	8.4	0.8	0.51	-	-	0:18	
40	M106	4258	CVn	5	12	19	47	18	8.4	19x8	25000	-	-	0:15	
41	M94	4736	CVn	5	12	50.9	41	7	8.2	7x3	14500	-	-	0:47	
42	M63	5055	CVn	5	13	15.8	42	2	8.6	10x6	37000	-	-	1:12	
43	M51	5194	CVn	5	13	29.9	47	12	8.4	11x7	37000	-	-	1:26	
44	M101	5457	UMa	5	14	3.2	54	21	7.9	22	27000	-	-	1:59	
45	M102	? 5866	Dra	8	15	6.5	55	46	9.9	5.2x2.3	40000	-	-	3:02	
46	M53	5024	Com	2	13	12.9	18	10	7.6	12.6	59.7	-	-	1:09	
47	M64	4826	Com	5	12	56.7	21	41	8.5	9.3x5.4	19000	-	-	0:53	
48	M3	5272	CVn	2	13	42.2	28	23	6.2	16.2	33.9	-	-	1:38	
49	M98	4192	Com	5	12	13.8	14	54	10.1	9.5x3.2	60000	-	-	0:10	
50	M99	4254	Com	5	12	18.8	14	25	9.9	5.4x4.8	60000	-	-	0:15	
51	M100	4321	Com	5	12	22.9	15	49	9.3	7x6	60000	-	-	0:19	
52	M85	4382	Com	8	12	25.4	18	11	9.1	7.1x5.2	60000	-	-	0:21	
53	M84	4374	Vir	8	12	25.1	12	53	9.1	5	60000	-	-	0:21	
54	M86	4406	Vir	8	12	26.2	12	57	8.9	7.5x5.5	60000	-	-	0:22	
55	M87	4486	Vir	6	12	30.8	12	24	8.6	7	60000	-	-	0:27	
56	M89	4552	Vir	6	12	35.7	12	33	9.8	4	60000	-	-	0:32	

No.	M#	NGC#	Con	Type	ra		dec		B	dim	d	HCSP Set	HCSP Rise	HCSP Transit	Viewed Time
					ra	min	deg	min							
57	M90	4569	Vir	5	12	36.8	13	10	9.5	9.5x4.5	60000	-	-	0:33	
58	M88	4501	Com	5	12	32	14	25	9.6	7x4	60000	-	-	0:28	
59	M91	4548	Com	5	12	35.4	14	30	10.2	5.4x4.4	60000	-	-	0:31	
60	M58	4579	Vir	5	12	37.7	11	49	9.7	5.5x4.5	60000	-	-	0:34	
61	M59	4621	Vir	6	12	42	11	39	9.6	5x3.5	60000	-	-	0:38	
62	M60	4649	Vir	6	12	43.7	11	33	8.8	7x6	60000	-	-	0:40	
63	M49	4472	Vir	6	12	29.8	8	0	8.4	9x7.5	60000	-	-	0:26	
64	M61	4303	Vir	5	12	21.9	4	28	9.7	6x5.5	60000	-	-	0:18	
65	M104	4594	Vir	5	12	40	-11	37	8	9x4	50000	6:02	19:06	0:36	
66	M68	4590	Hya	2	12	39.5	-26	45	7.8	12	33.3	5:08	19:59	0:35	
67	M83	5236	Hya	5	13	37	-29	52	7.6	11x10	15000	5:52	21:09	1:33	
68	M5	5904	Ser	2	15	18.6	2	5	5.6	17.4	24.5	-	21:02	3:14	
69	M13	6205	Her	2	16	41.7	36	28	5.8	16.6	25.1	-	20:14	4:37	
70	M92	6341	Her	2	17	17.1	43	8	6.4	11.2	26.7	-	20:03	5:12	
71	M57	6720	Lyr	3	18	53.6	33	2	8.8	1.4x1.0	2.3	-	22:44	6:48	
72	M56	6779	Lyr	2	19	16.6	30	11	8.3	7.1	32.9	-	23:20	7:11	
73	M29	6913	Cyg	1	20	23.9	38	32	7.1	7	4	-	23:42	8:18	
74	M39	7092	Cyg	1	21	32.2	48	26	4.6	32	0.825	-	23:20	9:26	
75	M27	6853	Vul	3	19	59.6	22	43	7.4	8.0x5.7	1.25	-	0:38	7:54	
76	M71	6838	Sge	2	19	53.8	18	47	8.2	7.2	12.7	-	0:47	7:48	
77	M107	6171	Oph	2	16	32.5	-13	3	7.9	10	20.9	-	23:02	4:28	
78	M12	6218	Oph	2	16	47.2	-1	57	6.7	14.5	16	-	22:43	4:42	
79	M10	6254	Oph	2	16	57.1	-4	6	6.6	15.1	14.4	-	22:59	4:52	
80	M14	6402	Oph	2	17	37.6	-3	15	7.6	11.7	29	-	23:37	5:33	
81	M9	6333	Oph	2	17	19.2	-18	31	7.7	9.3	26.7	-	0:11	5:14	
82	M4	6121	Sco	2	16	23.6	-26	32	5.6	26.3	7.2	-	23:41	4:19	
83	M80	6093	Sco	2	16	17	-22	59	7.3	8.9	32.6	-	23:21	4:12	
84	M19	6273	Oph	2	17	2.6	-26	16	6.8	13.5	28.4	-	0:23	4:58	
85	M62	6266	Oph	2	17	1.2	-30	7	6.5	14.1	22.5	-	0:38	4:56	
86	M6	6405	Sco	1	17	40.1	-32	13	5.3	25	2	-	1:26	5:35	
87	M7	6475	Sco	1	17	53.9	-34	49	4.1	80	0.8	-	1:53	5:49	
88	M11	6705	Sct	1	18	51.1	-6	16	6.3	14	6	-	1:03	6:46	
89	M26	6694	Sct	1	18	45.2	-9	24	8	15	5	-	1:07	6:40	
90	M16	6611	Ser	1	18	18.8	-13	47	6.4	7	7	-	0:55	6:14	
91	M17	6618	Sgr	4	18	20.8	-16	11	7	11	5	-	1:04	6:16	
92	M18	6613	Sgr	1	18	19.9	-17	8	7.5	9	4.9	-	1:07	6:15	
93	M24	>6603	Sgr	B	18	16.9	-18	29	4.6	90	10	-	1:10	6:13	
94	M25	l4725	Sgr	1	18	31.6	-19	15	6.5	40	2	-	1:26	6:27	
95	M23	6494	Sgr	1	17	56.8	-19	1	6.9	27	2.15	-	0:50	5:52	
96	M21	6531	Sgr	1	18	4.6	-22	30	6.5	13	4.25	-	1:10	6:00	
97	M20	6514	Sgr	4	18	2.6	-23	2	9	28	5.2	-	1:10	5:57	
98	M8	6523	Sgr	4	18	3.8	-24	23	6	90x40	5.2	-	1:17	5:59	
99	M28	6626	Sgr	2	18	24.5	-24	52	6.8	11.2	18.6	-	1:39	6:19	
100	M22	6656	Sgr	2	18	36.4	-23	54	5.1	24	10.4	-	1:47	6:31	
101	M69	6637	Sgr	2	18	31.4	-32	21	7.6	7.1	28	-	2:18	6:26	
102	M70	6681	Sgr	2	18	43.2	-32	18	7.9	7.8	29.4	-	2:30	6:38	
103	M54	6715	Sgr	2	18	55.1	-30	29	7.6	9.1	88.7	-	2:33	6:50	
104	M55	6809	Sgr	2	19	40	-30	58	6.3	19	17.6	-	3:20	7:35	
105	M75	6864	Sgr	2	20	6.1	-21	55	8.5	6	61.3	-	3:09	8:01	
106	M15	7078	Peg	2	21	30	12	10	6.2	12.3	33.6	-	2:45	9:24	
107	M2	7089	Aqr	2	21	33.5	0	49	6.5	12.9	37.9	-	3:28	9:28	
108	M72	6981	Aqr	2	20	53.5	-12	32	9.3	5.9	55.4	-	3:25	8:48	
109	M73	6994	Aqr	A	20	58.9	-12	38	9	2.8	2	-	3:31	8:53	
110	M30	7099	Cap	2	21	40.4	-23	11	7.2	11	26.1	-	4:48	9:35	

Congratulations and Good Morning!

Key:
Type:
1=Open Cluster, 2=Globular Cluster, 3=Planetary Nebula, 4=Diffuse Nebula, 5=Spiral Galaxy, 6=Elliptical Galaxy, 7=Irregular Galaxy,
8=Lenticular (S0) Galaxy, 9=Supernova Remnant, A=Group or Asterism of Four stars, B=Star Cloud, C=Double Star
ra: right ascension in hours minutes.decimal seconds dec: declination in degrees minutes
B: apparent visual brightness in magnitudes dim: apparent (angular) dimension in arc minutes
d: distance in kilo-light-years