

**PETERBOROUGH ASTRONOMICAL ASSOCIATION
MESSIER MARATHON LOG**

Observing Order For Messier Objects												
Order	M #	NGC	Con	R.A.	Deg	Sec	Mag	Type*	Notes	M #	Comments	
0	M 45		TAU	03:47	24	7	1.2	OC		M 45	M45 Pleiades	-EQUIPMENT SETUP
0	M 79	1904	LEP	05:24	-24	33	8.0	GC		M 79	M79 globular cluster in Lepus	-EQUIPMENT SETUP
1	M 77	1068	CET	02:43	0	1	8.8	SG		M 77	1. M77 spiral galaxy in Cetus	
2	M 74	628	PSC	01:37	15	47	9.2	SG		M 74	2. M74 spiral galaxy in Pisces	
3	M 33	598	TRI	01:34	30	39	5.7	SG		M 33	3. M33 The Triangulum/Pinwheel Galaxy spiral galaxy in Triangulum	
4	M 31	224	AND	00:43	41	16	3.4	SG		M 31	4. M31 The Andromeda Galaxy spiral galaxy in Andromeda	
5	M 32	221	AND	00:43	40	52	8.2	EG		M 32	5. M32 Satellite galaxy of M31 elliptical galaxy in Andromeda	
6	M 110	205	AND	00:40	41	41	8.0	EG		M 110	6. M110 Satellite galaxy of M31 elliptical galaxy in Andromeda	
7	M 52	7654	CAS	23:24	61	35	6.9	OC		M 52	7. M52 open cluster in Cassiopeia	
8	M 103	581	CAS	01:33	60	42	7.4	OC		M 103	8. M103 open cluster in Casseopeia	
9	M 76	650	PER	01:42	51	34	11.5	PN		M 76	9. M76 The Little Dumbell/Cork/Butterfly planetary nebula in Perseus	
10	M 34	1039	PER	02:42	42	47	5.2	OC		M 34	10. M34 open cluster in Perseus	
11	M 45		TAU	03:47	24	7	1.2	OC		M 45	11. M45 Subaru, the Pleiades--the Seven Sisters OC in Taurus	
12	M 79	1904	LEP	05:24	-24	33	8.0	GC		M 79	12. M79 globular cluster in Lepus	
13	M 42	1976	ORI	05:35	-5	27	4.0	DN		M 42	13. M42 The Great Orion Nebula diffuse nebula in Orion	
14	M 43	1982	ORI	05:35	-5	16	9.0	DN		M 43	14. M43 part of M42 (de Mairan's Nebula) diffuse nebula in Orion	
15	M 78	2068	ORI	05:47	0	3	8.0	DN		M 78	15. M78 diffuse reflection nebula in Orion	
16	M 1	1952	TAU	05:34	22	1	8.4	PN		M 1	16. M1 The Crab Nebula supernova remnant in Taurus	
17	M 35	2168	GEM	06:09	24	20	5.1	OC		M 35	17. M35 open cluster in Gemini	
18	M 37	2099	AUR	05:52	32	33	5.6	OC		M 37	18. M37 open cluster in Auriga	
19	M 36	1960	AUR	05:36	34	8	6.0	OC		M 36	19. M36 open cluster in Auriga	
20	M 38	1912	AUR	05:29	35	50	6.4	OC		M 38	20. M38 open cluster in Auriga	
21	M 41	2287	CMA	06:47	-20	44	4.5	OC		M 41	21. M41 open cluster in Canis Major	
22	M 93	2447	PUP	07:45	-23	52	6.2	OC		M 93	22. M93 open cluster in Puppis	
23	M 47	2422	PUP	07:37	-14	30	4.4	OC		M 47	23. M47 open cluster in Puppis	
24	M 46	2437	PUP	07:42	-14	49	6.1	OC		M 46	24. M46 open cluster in Puppis	
25	M 50	2323	MON	07:03	-8	20	5.9	OC		M 50	25. M50 open cluster in Monoceros	
26	M 48	2548	HYA	08:14	-5	48	5.8	OC		M 48	26. M48 open cluster in Hydra	
27	M 44	2632	CNC	08:40	19	59	3.1	OC		M 44	27. M44 Praesepe, the Beehive Cluster open cluster in Cancer	
28	M 67	2682	CNC	08:50	11	49	6.9	OC		M 67	28. M67 open cluster in Cancer	
29	M 95	3351	LEO	10:44	11	42	9.7	SG		M 95	29. M95 spiral galaxy in Leo	
30	M 96	3368	LEO	10:47	11	49	9.2	SG		M 96	30. M96 spiral galaxy in Leo	
31	M 105	3379	LEO	10:48	12	35	9.3	EG		M 105	31. M105 elliptical galaxy in Leo	
32	M 65	3623	LEO	11:19	13	5	9.3	SG		M 65	32. M65 spiral galaxy in Leo	
33	M 66	3627	LEO	11:20	12	59	9.0	SG		M 66	33. M66 spiral galaxy in Leo	
34	M 81	3031	UMA	09:56	69	4	6.8	SG		M 81	34. M81 Bode's Galaxy (nebula) spiral galaxy in Ursa Major	
35	M 82	3034	UMA	09:56	69	41	8.4	IG		M 82	35. M82 Cigar Galaxy irregular galaxy in Ursa Major	
36	M 97	3587	UMA	11:15	55	1	11.2	PN		M 97	36. M97 The Owl Nebula planetary nebula in Ursa Major	
37	M 108	3556	UMA	11:12	55	40	10.0	SG		M 108	37. M108 spiral galaxy in Ursa Major	
38	M 109	3992	UMA	11:58	53	23	9.8	SG		M 109	38. M109 spiral galaxy in Ursa Major	
39	M 40		UMA	12:22	58	5	8.0	dbl		M 40	39. M40 Double Star WNC4 in Ursa Major. 2 Faint Stars. False Nebula.	
40	M 106	4258	CVN	12:19	47	18	8.3	SG		M 106	40. M106 spiral galaxy in Canes Venatici	
41	M 94	4736	CVN	12:51	41	7	8.1	SG		M 94	41. M94 spiral galaxy in Canes Venatici	
42	M 63	5055	CVN	13:16	42	2	8.6	SG		M 63	42. M63 Sunflower galaxy spiral galaxy in Canes Venatici	
43	M 51	5194	CVN	13:30	47	12	8.1	SG		M 51	43. M51 The Whirlpool Galaxy in Canes Venatici	
44	M 101	5457	UMA	14:03	54	21	7.7	SG		M 101	44. M101 The Pinwheel Galaxy spiral in Ursa Major M102 may be dupe.	
45	M 102	5457	UMA	14:03	54	21	7.7	SG		M 102	45. M102? Spindle Galaxy (NGC 5866) lenticular (S0) Galaxy in Draco	
46	M 53	5024	COM	13:13	18	10	7.7	GC		M 53	46. M53 globular cluster in Coma Berenices	
47	M 64	4826	COM	12:57	21	41	8.5	SG		M 64	47. M64 Blackeye galaxy spiral galaxy in Coma Berenices	
48	M 3	5272	CVN	13:42	28	23	6.4	GC		M 3	48. M3 globular cluster in Canes Venatici	
49	M 98	4192	COM	12:14	14	54	10.1	SG		M 98	49. M98 spiral galaxy in Coma Berenices	
50	M 85	4382	COM	12:25	18	11	9.2	EG		M 85	50. M99 spiral galaxy in Coma Berenices	
51	M 99	4254	COM	12:19	14	25	9.8	SG		M 99	51. M100 spiral galaxy in Coma Berenices	
52	M 100	4321	COM	12:23	15	49	9.4	SG		M 100	52. M85 lenticular (S0) Galaxy in Coma Berenices	
53	M 84	4374	VIR	12:25	12	53	9.3	EG		M 84	53. M84 lenticular (S0) galaxy in Virgo	
54	M 86	4406	VIR	12:26	12	57	9.2	EG		M 86	54. M86 lenticular (S0) galaxy in Virgo	
55	M 87	4486	VIR	12:31	12	24	8.6	EG		M 87	55. M87 Virgo A elliptical galaxy in Virgo	
56	M 89	4552	VIR	12:36	12	33	9.8	EG		M 89	56. M89 elliptical galaxy in Virgo	
57	M 90	4569	VIR	12:37	13	10	9.5	SG		M 90	57. M90 spiral galaxy in Virgo	
58	M 88	4501	COM	12:32	14	25	9.5	SG		M 88	58. M88 spiral galaxy in Coma Berenices	
59	M 91	4548	COM	12:35	14	30	10.2	SG		M 91	59. M91 spiral galaxy in Coma Berenices	
60	M 58	4579	VIR	12:38	11	49	9.8	SG		M 58	60. M58 spiral galaxy in Virgo	
61	M 59	4621	VIR	12:42	11	39	9.8	EG		M 59	61. M59 elliptical galaxy in Virgo	
62	M 60	4649	VIR	12:44	11	33	8.8	EG		M 60	62. M60 elliptical galaxy in Virgo	
63	M 49	4472	VIR	12:30	8	0	8.4	EG		M 49	63. M49 elliptical galaxy in Virgo	
64	M 61	4303	VIR	12:22	4	28	9.7	SG		M 61	64. M61 spiral galaxy in Virgo	
65	M 104	4594	VIR	12:40	-11	37	8.3	SG		M 104	65. M104 The Sombrero Galaxy spiral galaxy in Virgo	
66	M 68	4590	HYA	12:40	-26	45	8.2	GC		M 68	66. M68 globular cluster in Hydra	
67	M 83	5236	HYA	13:38	-29	52	7.6	SG		M 83	67. M83 Southern Pinwheel Galaxy spiral galaxy in Hydra	
68	M 5	5904	SER	15:18	2	5	5.8	GC		M 5	68. M5 globular cluster in Serpens Caput	
69	M 13	6205	HER	16:42	36	28	5.9	GC		M 13	69. M13 Great Hercules Globular Cluster globular cluster in Hercules	
70	M 92	6341	HER	17:17	43	8	6.5	GC		M 92	70. M92 globular cluster in Hercules	
71	M 57	6720	LYR	18:54	33	2	9.0	PN		M 57	71. M57 The Ring Nebula planetary nebula in Lyra	
72	M 56	6779	LYR	19:17	30	11	8.2	GC		M 56	72. M56 globular cluster in Lyra	
73	M 29	6913	CYG	20:23	38	32	6.6	OC		M 29	73. M29 open cluster in Cygnus	
74	M 39	7092	CYG	21:32	48	26	4.6	OC		M 39	74. M39 open cluster in Cygnus	
75	M 27	6853	VUL	20:00	22	43	8.1	PN		M 27	75. M27 The Dumbbell Nebula planetary nebula in Vulpecula	
76	M 71	6838	SGE	19:54	18	47	8.3	GC		M 71	76. M71 globular cluster in Sagitta	
77	M 107	6171	OPH	16:33	-13	3	8.1	GC		M 107	77. M107 globular cluster in Ophiuchus	
78	M 10	6254	OPH	16:57	-4	6	6.6	GC		M 10	78. M10 globular cluster in Ophiuchus	
79	M 12	6218	OPH	16:47	-1	57	6.6	GC		M 12	79. M12 globular cluster in Ophiuchus	
80	M 14	6402	OPH	17:38	-3	15	7.6	GC		M 14	80. M14 globular cluster in Ophiuchus	
81	M 9	6333	OPH	17:19	-18	31	7.9	GC		M 9	81. M9 globular cluster in Ophiuchus	
82	M 4	6121	SCO	16:23	-26	32	5.9	GC		M 4	82. M4 globular cluster in Scorpius	
83	M 80	6093	SCO	16:17	-22	59	7.2	GC		M 80	83. M80 globular cluster in Scorpius	
84	M 19	6273	OPH	17:03	-26	16	7.2	GC		M 19	84. M19 globular cluster in Ophiuchus	
85	M 62	6266	OPH	17:01	-30	7	6.6	GC		M 62	85. M62 globular cluster in Ophiuchus	
86	M 6	6405	SCO	17:40	-32	13	4.2	OC		M 6	86. M6 The Butterfly Cluster open cluster in Scorpius	

