MESSIER MARATHON LOG

NAME: _____

Observing Order For Messier Objects

Order	Time	M #	NGC	Con	R.A.	Deg	Sec	Mag	Type*	Comments
1		**M 77**	1068	CET	2:43	0	1	8.8	SG	
2		**M 74**	628	PSC	1:37	15	47	9.2	S	
3		**M 33**	598	TRI	1:34	30	39	5.7	SG	Pinwheel galaxy
4		**M 31**	224	AND	0:43	41	16	3.4	SG	Andromeda galaxy
5		**M 32**	221	AND	0:43	40	52	8.2	EG	Satellite Galaxy of M31
6		**M 110**	205	AND	0:40	41	41	8.0	EG	Satellite Galaxy of M31
7		**M 52**	7654	CAS	23:24	61	35	6.9	OC	
8		**M 103**	581	CAS	1:33	60	42	7.4	OC	
9		**M 76**	650	PER	1:42	51	34	11.5	PN	The Little Dumbell, Cork or Butterfly nebula
11		**M 34**	1039	PER	2:42	42	47	5.2	OC	
11		**M 45**		TAU	3:47	24	7	1.2	OC	Pleiades, The Seven Sisters, Subaru
12		**M 79**	1904	LEP	5:24	-24	33	8.0	GC	
13		**M 42**	1976	ORI	5:35	-5	27	4.0	DN	Great Orion nebula
14		**M 43**	1982	ORI	5:35	-5	16	9.0	DN	
15		**M 78**	2068	ORI	5:47	0	3	8.0	DN	
16		**M 1**	1952	TAU	5:34	22	1	8.4	PN	Crab nebula. Supernova remnant from the year 1054.
17		**M 35**	2168	GEM	6:09	24	20	5.1	OC	
18		**M 37**	2099	AUR	5:52	32	33	5.6	OC	
19		**M 36**	1960	AUR	5:36	34	8	6.0	OC	
20		**M 38**	1912	AUR	5:29	35	50	6.4	OC	
21		**M 41**	2287	CMA	6:47	-20	44	4.5	OC	
22		**M 93**	2447	PUP	7:45	-23	52	6.2	OC	
23		**M 47**	2422	PUP	7:37	-14	30	4.4	OC	
24		**M 46**	2437	PUP	7:42	-14	49	6.1	OC	
25		**M 50**	2323	MON	7:03	-8	20	5.9	OC	
26		**M 48**	2548	HYA	8:14	-5	48	5.8	OC	
27		**M 44**	2632	CNC	8:40	19	59	3.1	OC	Beehive Cluster, Praesepe, 358 stars approx. 500 ly distant
28		**M 67**	2682	CNC	8:50	11	49	6.9	OC	
29		**M 95**	3351	LEO	10:44	11	42	9.7	SG	
30		**M 96**	3368	LEO	10:47	11	49	9.2	SG	
31		**M 105**	3379	LEO	10:48	12	35	9.3	EG	
32		**M 65**	3623	LEO	11:19	13	5	9.3	SG	Leo's triplet
33		**M 66**	3627	LEO	11:20	12	59	9.0	SG	Leo's triplet
34		**M 81**	3031	UMA	9:56	69	4	6.8	SG	Bode's nebula (galaxy)
35		**M 82**	3034	UMA	9:56	69	41	8.4	IG	Cigar Galaxy
36		**M 97**	3587	UMA	11:15	55	1	11.2	PN	Owl nebula
37		**M 108**	3556	UMA	11:12	55	40	10.0	SG	
38		**M 109**	3992	UMA	11:58	53	23	9.8	SG	
39		**M 40**		UMA	12:22	58	5	8.0	dbl	False nebula - two faint stars - Double Star WNC4
40		**M 106**	4258	CVN	12:19	47	18	8.3	SG	
41		**M 94**	4736	CVN	12:51	41	7	8.1	SG	
42		**M 63**	5055	CVN	13:16	42	2	8.6	SG	Sunflower galaxy
43		**M 51**	5194	CVN	13:30	47	12	8.1	SG	Whirlpool galaxy
44		**M 101**	5457	UMA	14:03	54	21	7.7	SG	
45		**M 102**	5457	UMA	14:03	54	21	7.7	SG	Duplicate of M101
46		**M 53**	5024	COM	13:13	18	10	7.7	GC	
47		**M 64**	4826	COM	12:57	21	41	8.5	SG	Black eye galaxy
48		**M 3**	5272	CVN	13:42	28	23	6.4	GC	1000 stars approx. 40,000 ly distant. 500 variable stars.
49		**M 98**	4192	COM	12:14	14	54	10.1	SG	
50		**M 85**	4382	COM	12:25	18	11	9.2	EG	
50		**M 99**	4254	COM	12:19	14	25	9.8	SG	Pin Wheel nebula
51		**M 100**	4321	COM	12:23	15	49	9.4	SG	
53		**M 84**	4374	VIR	12:25	12	53	9.3	EG	Lenticular galaxy
54		**M 86**	4406	VIR	12:26	12	57	9.2	EG	Lenticular galaxy
55		**M 87**	4486	VIR	12:31	12	24	8.6	EG	Virgo A
56		**M 89**	4552	VIR	12:36	12	33	9.8	EG	
57		**M 90**	4569	VIR	12:37	13	10	9.5	SG	
58		**M 88**	4501	COM	12:32	14	25	9.5	SG	
59		**M 91**	4548	COM	12:35	14	30	10.2	SG	
60		**M 58**	4579	VIR	12:38	11	49	9.8	SG	
61		**M 59**	4621	VIR	12:42	11	39	9.8	EG	
62		**M 60**	4649	VIR	12:44	11	33	8.8	EG	
63		**M 49**	4472	VIR	12:30	8	0	8.4	EG	
64		**M 61**	4303	VIR	12:22	4	28	9.7	SG	
65		**M 104**	4594	VIR	12:40	-11	37	8.3	SG	Sombrero galaxy
66		**M 68**	4590	HYA	12:40	-26	45	8.2	GC	
67		**M 83**	5236	HYA	13:38	-29	52	7.6	SG	Southern Pinwheel Galaxy
68		**M 5**	5904	SER	15:18	2	5	5.8	GC	
69		**M 13**	6205	HER	16:42	36	28	5.9	GC	Hercules C+J70luster. 100,000 stars
70		**M 92**	6341	HER	17:17	43	8	6.5	GC	
71		**M 57**	6720	LYR	18:54	33	2	9.0	PN	Ring nebula. Looks like smoke ring.
72		**M 56**	6779	LYR	19:17	30	11	8.2	GC	

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Observing Order For Messier Objects

Order	Time	M #	NGC	Con	R.A.	Deg	Sec	Mag	Type*	Comments
73		**M 29**	6913	CYG	20:23	38	32	6.6	OC	
74		**M 39**	7092	CYG	21:32	48	26	4.6	OC	
75		**M 27**	6853	VUL	20:00	22	43	8.1	PN	Dumbbell nebula
76		**M 71**	6838	SGE	19:54	18	47	8.3	GC	
77		**M 107**	6171	OPH	16:33	-13	3	8.1	GC	
78		**M 10**	6254	OPH	16:57	-4	6	6.6	GC	
79		**M 12**	6218	OPH	16:47	-1	57	6.6	GC	
80		**M 14**	6402	OPH	17:38	-3	15	7.6	GC	
81		**M 9**	6333	OPH	17:19	-18	31	7.9	GC	
82		**M 4**	6121	SCO	16:23	-26	32	5.9	GC	
83		**M 80**	6093	SCO	16:17	-22	59	7.2	GC	
84		**M 19**	6273	OPH	17:03	-26	16	7.2	GC	
85		**M 62**	6266	OPH	17:01	-30	7	6.6	GC	
86		**M 6**	6405	SCO	17:40	-32	13	4.2	OC	Butterfly cluster
87		**M 7**	6475	SCO	17:54	-34	49	3.3	OC	Ptolemy's Cluster
88		**M 11**	6705	SCT	18:51	-6	16	5.8	OC	Wild Duck cluster
89		**M 26**	6694	SGR	18:45	-9	24	8.0	OC	
90		**M 16**	6611	SER	18:19	-13	47	6.0	DN	Eagle nebula
91		**M 17**	6618	SGR	18:21	-16	11	7.0	DN	Omega, Swan, Horseshoe, Lobster nebula
92		**M 18**	6613	SGR	18:20	-17	8	6.9	OC	
93		**M 24**	6603	SGR	18:16	-18	29	4.5	OC	Milky Way star patch with open cluster NGC 6603
94		**M 25**		SGR	18:32	-19	15	4.6	OC	
95		**M 23**	6494	SGR	17:57	-19	1	5.5	OC	
96		**M 21**	6531	SGR	18:05	-22	30	5.9	OC	
97		**M 20**	6514	SGR	18:02	-23	2	8.5	DN	Trifid nebula
98		**M 8**	6523	SGR	18:03	-24	23	5.8	DN	Lagoon nebula
99		**M 28**	6626	SGR	18:25	-24	52	6.9	GC	
100		**M 22**	6656	SGR	18:36	-23	54	5.1	GC	Excellent.
101		**M 69**	6637	SGR	18:31	-32	21	7.7	GC	
102		**M 70**	6681	SGR	18:43	-32	18	8.1	GC	
103		**M 54**	6715	SGR	18:55	-30	29	7.7	GC	
104		**M 55**	6809	SGR	19:40	-30	58	7.0	GC	
105		**M 75**	6864	SGR	20:06	-21	55	8.6	GC	
106		**M 15**	7078	PEG	21:30	12	10	6.4	GC	
107		**M 2**	7089	AQR	21:33	0	-49	6.5	GC	
108		**M 72**	6981	AQR	20:54	-12	32	9.4	GC	
109		**M 73**	6994	AQR	20:58	-12	38		ast	Asterism or open cluster
110		**M 30**	7099	CAP	21:40	-23	11	7.5	GC	

**** Object types:***

PN	Planetary nebula
DN	Dark, Diffuse nebula
GC	Globular cluster
OC	Open cluster
SG	Spiral galaxy
EG	Elliptical galaxy
IR	Irregular galaxy

NOTES:

EQUIPMENT USED:

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