

VISUAL MAGNITUDES OF OBJECTS IN MESSIER'S CATALOGUE

Geoffrey Gaherty, Jr.

All magnitudes taken from Appendix XI, Field Book of the Skyes, Olcott, Mayall, & Mayall, Putnam, New York, 1954.

Vis. Mag.	M	Vis. Mag.	M	Vis. Mag.	M	Vis. Mag.	M	Vis. Mag.	M	Vis. Mag.	M	Vis. Mag.	M
1.6	45✓	6.0	93✓	6.6	12✓	7.6	27✓	8.6	49✓	9.2	107✓	10.0	90✓
3.7	44✓	6.1	67✓	6.6	19✓	7.6	53✓	8.6	106✓	9.3	26✓	10.0	108✓
4.6	24✓	6.2	5✓	6.6	62✓	7.7	14✓	8.7	32✓	9.3	57✓	10.1	61✓
4.6	41✓	6.2	37✓	6.7	10✓	7.7	80✓	8.7	104✓	9.3	65✓	10.1	83✓
4.8	31✓	6.2	92✓	6.7	33✓	7.9	79✓	8.8	64✓	9.3	84✓	10.1	99✓
5.2	39✓	6.3	2✓	6.9	23✓	7.9	81✓	8.8	82✓	9.3	85✓	10.2	74✓
5.3	6✓	6.3	11✓	7.1	29✓	7.9	94✓	8.9	60✓	9.5	63✓	10.2	88✓
5.3	35✓	6.3	36✓	7.3	9✓	8.0	75✓	8.9	69✓	9.5	89✓	10.4	95✓
5.5	34✓	6.3	50✓	7.3	28✓	8.1	51✓	8.9	77✓	9.6	59✓	10.6	100✓
5.7	13✓	6.4	3✓	7.3	52✓	8.2	56✓	9.1	96✓	9.6	70✓	10.7	98✓
5.9	22✓	6.4	4✓	7.4	38✓	8.4	1✓	9.2	58✓	9.6	101✓	11.0	109✓
6.0	15✓	6.4	16✓	7.4	103✓	8.4	30✓	9.2	87✓	9.7	86✓	12.0	97✓
6.0	46✓	6.5	21✓	7.5	18✓	8.4	66✓	9.2	105✓	9.8	72✓	12.2	76✓

The following objects are not on the above list:

- 77✓ Open Cl. Scor.
- 8✓ Diff. Neb. Sgtr. Lagoon Nebula
- 17✓ Diff. Neb. Sgtr. Omega, or Horseshoe Nebula
- 20✓ Diff. Neb. Sgtr. Trifid Nebula
- 25✓ Open Cl. Sgtr.
- 40 - - - - - UMaj. 2 faint stars taken for Nebula
- 42✓ Diff. Neb. Orio. Great Nebula in Orion
- 43✓ Diff. Neb. Orio.
- 47✓ Open Cl. Pupp.
- 48✓ Open Cl. Hyda.
- 54✓ Glob. Cl. Sgtr.
- 55✓ Glob. Cl. Sgtr.
- 68✓ Glob. Cl. Hyda.
- 71✓ Glob. Cl. Sgte.
- 73 Open Cl. Aqar.
- 78✓ Diff. Neb. Orio.
- 91 - - - - - Coma Probably a comet
- 102 Spir. Gal. Drac. Probably same as 101 (Vis. Mag.: 10.8)

December 5, 1957.

OBJECTS IN MESSIER'S CATALOGUE LISTED BY RIGHT ASCENSION

Geoffrey Gaherty, Jr.

All visual magnitudes taken from Appendix XI, Field Book of the Skies, Olcott, Mayall, & Mayall, Putnam, New York, 1954.

All right ascensions taken from Messier's Catalogue of Clusters and Nebulae, Royal Astronomical Society of Canada, Montreal Centre.

R. A.					R. A.					R. A.				
M	h	m	mag	tp	M	h	m	mag	tp	M	h	m	mag	tp
✓32	0	37.2	8.7	SG	✓99	12	13.8	10.1	SG	✓9	17	13.3	7.3	GC
✓31	0	37.3	4.8	SG	✓61	12	16.8	10.1	SG	✓92	17	14.1	6.2	GC
✓103	1	26.6	7.4	OC	✓106	12	17	8.6	SG	✓14	17	32.4	7.7	GC
33	1	28.2	6.7	SG	40	12	17.4	----	--	✓6	17	33.5	5.3	GC
74	1	31.3	10.2	SG	✓100	12	17.9	10.6	SG	✓7	17	47.3	----	OC
✓76	1	36.0	12.2	PN	✓84	12	20.0	9.3	SG	✓23	17	51.0	6.9	OC
✓34	2	35.6	5.5	OC	✓85	12	20.4	9.3	SG	✓20	17	58.6	----	DN
77	2	37.6	8.9	SG	✓86	12	21.1	9.7	SG	✓8	17	57.6	----	DN
✓45	3	41.5	1.6	OC	✓49	12	24.7	8.6	SG	✓21	17	58.6	6.5	OC
✓79	5	20.1	7.9	GC	✓87	12	25.8	9.2	SG	✓24	18	12.6	4.6	OC
✓38	5	22.0	7.4	OC	✓88	12	26.9	10.2	SG	✓16	18	13.2	6.4	OC
✓1	5	28.5	8.4	DN	✓89	12	30.6	9.5	SG	✓18	18	14.1	7.5	OC
✓36	5	29.5	6.3	OC	✓90	12	31.8	10.0	SG	✓17	18	15.0	----	DN
✓42	5	30.4	----	DN	✓58	12	32.7	9.2	SG	✓28	18	18.4	7.3	GC
✓43	5	30.6	----	DN	✓68	12	34.2	----	GC	✓69	18	24.8	8.9	GC
✓78	5	41.6	----	DN	91	12	36.0	----	--	✓25	18	25.8	----	OC
✓37	5	45.8	6.2	OC	✓59	12	37.0	9.6	SG	✓22	18	30.3	5.9	GC
✓35	6	2.7	5.3	OC	✓104	12	37	8.7	SG	✓70	18	36.7	9.6	GC
✓41	6	42.7	4.6	OC	✓60	12	38.6	8.9	SG	✓26	18	39.8	9.3	OC
✓50	6	58.2	6.3	OC	✓94	12	46.2	7.9	SG	✓11	18	45.7	6.3	OC
✓46	7	37.2	6.0	OC	✓64	12	51.8	8.8	SG	✓54	18	48.7	----	GC
✓93	7	40.5	6.0	OC	✓53	13	8.0	7.6	GC	✓57	18	49.9	9.3	PN
✓47	7	50.2	----	OC	✓63	13	11.3	9.5	SG	✓56	19	12.7	8.2	GC
✓48	8	9.0	----	OC	✓51	13	25.7	8.1	SG	✓55	19	33.7	----	GC
✓44	8	34.3	3.7	OC	✓83	13	31.4	10.1	SG	✓71	19	49.3	----	GC
✓67	8	45.8	6.1	OC	✓3	13	37.6	6.4	GC	✓27	19	55.3	7.6	PN
✓81	9	47.3	7.9	SG	✓101	13	59.6	9.6	SG	✓75	20	0.2	8.0	GC
✓82	9	47.5	8.8	SG	102	15	3.8	10.8	SG	✓29	20	20.3	7.1	OC
✓95	10	38.7	10.4	SG	✓5	15	13.5	6.2	GC	✓72	20	48.0	9.8	GC
✓96	10	41.5	9.1	SG	✓80	16	11.1	7.7	GC	73	20	53.5	----	OC
✓105	10	45	9.2	SG	✓4	16	17.5	6.4	GC	✓15	21	25.2	6.0	GC
✓97	11	9.0	12.0	PN	✓107	16	30	9.2	GC	✓2	21	28.3	6.3	GC
✓108	11	9	10.0	SG	✓13	16	38.1	5.7	GC	✓39	21	28.6	5.2	OC
✓65	11	13.7	9.3	SG	✓12	16	42.0	6.6	GC	✓30	21	34.7	8.4	GC
✓66	11	15.0	8.4	SG	✓10	16	51.9	6.7	GC	✓52	23	19.8	7.3	OC
✓109	11	55	11.0	SG	✓62	16	54.8	6.6	GC					
✓98	12	8.7	10.7	SG	✓19	16	56.4	6.6	GC					

Abbreviations: SG - Spiral Galaxy, OC - Open Cluster, PN - Planetary Nebula, GC - Globular Cluster, DN - Diffuse Nebula.

February 14, 1958.

Messiers to get:

Observers Handbook ~~12.2 miles/sec~~

Spiral galaxies: ~~Others~~

33	6.7	TRI	} too late
74	10.2	PSC	
77	8.9	CET	
81	7.9	UMA	} Observatory
82	8.8	UMA	
✓ 95	10.4	LEO	
✓ 96	9.1	LEO	
✓ 105	9.2	LEO	
✓ 108	10.0	UMA	
✓ 65	9.3	LEO	
✓ 66	8.4	LEO	
109	11.0	UMA	
98	10.7	COM	
99	10.1	COM	
61	10.1	VIR	
✓ 106	8.6	CVN	
100	10.6	COM	
84	9.3	VIR	
85	9.3	COM	
86	9.7	VIR	
49	8.6	VIR	
87	9.2	VIR	
88	10.2	COM	
89	9.5	VIR	
90	10.0	VIR	
58	9.2	VIR	
59	9.6	VIR	
104	8.7	VIR	
60	8.9	VIR	
✓ 94	7.9	CVN	
✓ 64	8.8	COM	
✓ 63	9.5	CVN	
✓ 51	8.1	CVN	
83	10.1	HYA	
101	9.6	UMA	

35

Others

76	PN	12.2	PER	←
✓ 97	PN	12.0	UMA	← 10.8 in field
40X	—	—	UMA	
→ 68	GC	—	HYA	←
91X	—	—	COM	
102X	SG	10.8	DRA	
70	GC	9.6	SGR	←
72	GC	9.8	AQR	←
73	OC	—	AQR	←

65
35
9
109 ✓

89 done
17 logs
106
+ 3 mistakes
109



Spiral Galaxies:

0:40

TRI: 33 6.7

PSC: 74 10.2

CET: 77 8.9

UMA: ~~81 7.9~~ } Great Sp. in UMA

~~82 8.8~~ } Irregular (looks like barred spiral in 6")

✓ ~~108 10.0~~ Same field as planetary M97 (Owl Nebula)

~~109 11.0~~ Not plotted in Norton's v.n. Y UMa

~~101 9.6~~ Starlike condensation

} too far north for back porch

✓ ~~LEO: 95 10.4~~

✓ ~~96 9.1~~

✓ ~~105 9.2~~

~~108 10.8~~

✓ ~~65 9.3~~

✓ ~~66 8.4~~

COM: ~~98 10.7~~

~~99 10.1~~

~~100 10.6~~

~~85 9.3~~

~~88 10.2~~

✓ ~~64 8.8~~ Not in Com-Vir group

VIR: ~~61 10.1~~ Not in Com-Vir group

~~84 9.3~~

~~86 9.7~~

→ ~~119 8.6~~

~~87 9.2~~

~~89 9.5~~

~~90 10.0~~

~~58 9.2~~

~~59 9.6~~

~~104 8.7~~ Not in Com-Vir group

~~60 8.9~~

} Globular galaxy

cont.

Spiral Galaxies (cont.):

~~CVN: ✓ 106 8.6~~

~~✓ 94 7.9~~

~~✓ 63 9.5~~

~~✓ 51 8.1~~

~~Whirlpool Neb.~~

~~MKA: 83 10.1~~