

Messier Number	SBO Catalog Number	Other Catalog Numbers	Common Name	Object Type	Constellation	Epoch 2000			Visible Mag	Apparent Size (arcmin)	Distance Light Years	Description or Comments
						R. A. h m s	Dec deg ' "					
1	1	NGC 1952	Crab Nebula	Sprnva	Tau	05 34 30	+ 22 01 00		8.4	6' x 4'	6,000	1,054 A.D. supernova remnant, .03s pulsar, 10x7 ly
2	2, 300	NGC 7089	M 2	Glob Cl	Aqr	21 33 29	- 00 49 18		7.5	10' x 10'	50,000	175 ly across, appears to contain dark lane
3	3, 252	NGC 5272	M 3	Glob Cl	CVn	13 42 15	+ 28 22 30		7	10' x 10'	30,000	45,000 stars, very rich, 90 ly across
4	4, 262	NGC 6121	M 4	Glob Cl	Sco	16 23 38	- 26 30 30		7.5	14' x 14'	10,000	Loose, open, appears to have chains of stars
5	5, 255	NGC 5904	M 5	Glob Cl	Ser	15 18 34	+ 02 05 36		7	12' x 12'	30,000	100 ly across, contains 100 RR Lyra stars
6	6, 274	NGC 6405	M 6 Butterfly	Open Cl	Sco	17 40 02	- 32 12 48		4.5	30' x 26'	2,000	Coarse, 80+ stars 7-11 mag., blue/white w/1 red *
7	7, 275	NGC 6475	M 7	Open Cl	Sco	17 53 58	- 34 48 18		3.5	60' x 60'	800	80+ stars > 10 mag., many yellow & orange stars
8	8, 279	NGC 6523	M 8 Lagoon Neb	Dif Neb	Sgr	18 03 08	- 24 23 00		5	60' x 35'	5,200	Emis. neb. (05 star) 30 ly dia., w/lane, open clust
9	9	NGC 6333	M 9	Glob Cl	Oph	17 19 17	- 18 31 30		9	3' x 3'	26,000	Oval ctr, 14th mag. stars, 7,500 ly from gal. nuc.
10	10, 268	NGC 6254	M 10	Glob Cl	Oph	16 57 07	- 04 06 18		7.5	8' x 8'	16,000	Similar to M 12, 3 degrees away
11	11, 286	NGC 6705	M 11	Open Cl	Sct	18 51 02	- 06 16 12		7	12' x 12'	6,000	Rich & compact, 600 stars 9-12 mag., 21 ly across
12	12, 267	NGC 6218	M 12	Glob Cl	Oph	16 47 12	- 01 57 42		8	8' x 8'	16,000	10 - 15 mag. stars, 80 ly across, grainy nucleus
13	13, 265	NGC 6205	M 13 Hercules	Glob Cl	Her	16 41 42	+ 36 27 12		7	23' x 23'	25,000	170 ly dia., 200,000+ stars, 500x local star density
14	14	NGC 6402	M 14	Glob Cl	Oph	17 37 37	- 03 16 54		9.5	3' x 3'	23,000	Circular, 15th mag. stars, 55 ly across
15	15, 298	NGC 7078	M 15	Glob Cl	Peg	21 30 00	+ 12 10 36		7.5	12' x 12'	40,000	Rich, contains 14th mag. 1" planetary nebula
16	16	NGC 6611	M 16 Eagle Neb.	Dif Neb	Ser	18 18 49	- 13 46 24		6.5	30' x 30'	8,000	Emis. neb. w/dark patches, open cl, 2 Myrs old
17	17, 282	NGC 6618	M 17 Omega Neb	Dif Neb	Sgr	18 20 44	- 16 10 18		7	25' x 25'	5,700	Emis. neb., horseshoe shaped, w/faint open cl
18	18	NGC 6613	M 18	Open Cl	Sgr	18 19 57	- 17 07 18		8	12' x 12'	6,000	Cluster of 12 stars, loose
19	19	NGC 6273	M 19	Glob Cl	Oph	17 02 33	- 26 15 06		8.5	6' x 6'	20,000	30 ly across, similar to M 62, 4 degrees away
20	20	NGC 6514	M 20 Triffid	Dif Neb	Sgr	18 02 19	- 23 02 00		6	29' x 27'	5,000	3-lobed emission+refl. neb., 07 ** in ctr is source
21	21	NGC 6531	M 21	Open Cl	Sgr	18 04 37	- 22 29 54		7	12' x 12'	3,000	10 ly across, 40 stars > 12th magnitude
22	22, 283	NGC 5626	M 22	Glob Cl	Sgr	18 36 19	- 23 55 42		6.5	18' x 18'	10,000	Nearby glob., 70K stars 11-15 mag., 50 ly across
23	23, 276	NGC 6494	M 23	Open Cl	Sgr	17 56 58	- 19 01 12		6	25' x 25'	4,500	30 ly across, 120 stars 10th mag. and fainter
24	24	NGC 6603	M 24	Open Cl	Sgr	18 18 28	- 18 24 24		11.5	90' x 60'	?	Milky Way patch with 4' dia. 11th mag. open cl
25	25	IC 4725	M 25	Open Cl	Sgr	18 31 42	- 19 14 00		6.5	40' x 40'	2,000	86 stars loosely scattered, many colors
26	26	NGC 6694	M 26	Open Cl	Sct	18 45 22	- 09 23 24		9.5	11' x 11'	5,000	90 stars 12-15 mag., 16 ly across
27	27, 294	NGC 6853	M 27	Pit Neb	Vul	19 59 35	+ 22 43 06		7.5	8' x 4'	900	Greenish, hourglass shaped, 2 ly dia, 13mag star
28	28	NGC 6626	M 28	Glob Cl	Sgr	18 24 32	- 24 52 12		8.5	15' x 15'	15,000	14 - 16 mag. stars, 65 ly across
29	29	NGC 6913	M 29	Open Cl	Cyg	20 23 55	+ 38 31 54		9	6' x 7'	7,200	Sparse, 6 stars > 9.5 mag. form dipper shape
30	30	NGC 7099	M 30	Glob Cl	Cap	21 40 19	- 23 11 12		8.5	6' x 6'	40,000	Slightly oval, unusual globular, 12-16 mag. stars
31	31, 201	NGC 224	M31 Andromeda	Spl Gal	And	00 42 46	+ 41 16 12		4.5	240' x 60'	2.2 M	Milky Way "twin", 15deg from edge-on, 300B *
32	32	NGC 221	M32	Ell Gal	And	00 42 46	+ 40 52 12		10	3' x 3'	2.2 M	Companion to M 31, 2000 ly across
33	33	NGC 598	M 33 Pinwheel	Spl Gal	Tri	01 33 55	+ 30 39 42		7	60' x 60'	2.3 M	Sc, member Local Group, low surface brightness
34	34	NGC 1039	M 34	Open Cl	Per	02 42 01	+ 42 46 24		6	30' x 30'	1,400	Loose, 12 stars > 9mag
35	35, 224	NGC 2168	M 35	Open Cl	Gem	06 08 50	+ 24 20 42		5.5	30' x 30'	2,800	120 stars > 13 mag., compact 4' cluster 30' to SW
36	36	NGC 1960	M 36	Open Cl	Aur	05 36 09	+ 34 08 00		6.5	12' x 12'	4,100	60 stars 9-14 mag., 14 ly across
37	37, 222	NGC 2099	M37	Open Cl	Aur	05 52 20	+ 32 32 18		6	20' x 20'	4,600	150 stars to 12.5 mag., 28 ly across
38	38	NGC 1912	M 38	Open Cl	Aur	05 28 41	+ 35 50 12		7	20' x 20'	4,200	100 stars, cruciform shape, 21 ly across
39	39	NGC 7092	M 39	Open Cl	Cyg	21 32 12	+ 48 26 42		5.5	30' x 30'	900	Sparse, open, best in binoculars
40	40	Winnecke 4	M 40	**	UMa	12 22 18	+ 58 05 12		9	49"	?	Double star mistaken for nebula in 17th Century
41	41	NGC 2287	M41	Open Cl	CMa	06 47 04	- 20 45 42		5	32' x 32'	2,400	Red star in center, 20 ly across, near 6 mag. star
42	42, 218	NGC 1976	M 42 Orion Neb.	Dif Neb	Ori	05 35 20	- 05 23 12		4	66' x 60'	1,900	H II, 30,000y old, 30 ly across, stellar nursery
43	43	NGC 1982	M 43 NE Ori Neb	Dif Neb	Ori	05 35 32	- 05 16 06		9	15' x 15'	1,900	Detached portion of M 42, sep. by a dark lane
44	44	NGC 2632	M 44 Praesepe	Open Cl	Cnc	08 40 02	+ 19 59 42		4	60' x 60'	525	Beehive, 350 stars to 17 mag., 40 ly across
45	45	OC1 421	M 45 Pleiades	Open Cl	Tau	03 47 29	+ 24 06 18		1.6	90' x 60'	400	Seven Sisters, 200+ stars 3-16 mag., w/refl. neb.
46	46, 233	NGC 2437	M 46	Open Cl	Pup	07 41 51	- 14 49 36		6.5	28' x 28'	5,400	200 stars > 14 mag., dim planetary in foreground
47	47	NGC 2422	M 47	Open Cl	Pup	07 36 33	- 14 28 24		4.5	25' x 25'	1,600	50 stars, 12 ly across, contains 7.4" double star
48	48	NGC 2548	M 48	Open Cl	Hya	08 13 38	- 05 47 36		5.5	30' x 30'	1,500	60 stars, missing Messier obj. (misplaced 5 deg.)
49	49	NGC 4472	M 49	Ell Gal	Vir	12 29 46	+ 08 00 42		10	3' x 2'	70 M	E4 galaxy, bright center with halo
50	50	NGC 2323	M 50	Open Cl	Mon	07 02 54	- 08 20 12		7	16' x 16'	3,000	50 stars 12-16 mag., 13 ly across
51	51, 251	NGC 5194	M 51 Whirlpool	Spl Gal	CVn	13 29 57	+ 47 11 18		10	11' x 7'	14 M	Bright Sc, spiral arm bridge to colliding galaxy
52	52	NGC 7654	M 52	Open Cl	Cas	23 24 13	+ 61 35 18		8	12' x 12'	7,000	Rather rich, 200 stars 9-15 mag., red star at edge
53	53	NGC 5024	M 53	Glob Cl	Com	13 12 55	+ 18 10 00		8.5	3.3' x 3.3'	60,000	60 ly across, 12th mag. stars easily resolved
54	54	NGC 6715	M 54	Glob Cl	Sgr	18 55 12	- 30 28 06		8.5	3' x 3'	50,000	Compact, 14 mag. stars
55	55, 290	NGC 6809	M 55	Glob Cl	Sgr	19 40 05	- 30 56 30		7	15' x 15'	20,000	Rich, 90 ly across, w/ conspicuous bright star

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56	56	NGC 6779	M 56	Glob Cl	Lyr	19 16 34	+ 30 10 42	9.5	5' x 5'	40,000	No bright core, well-resolved 11-14 mag. stars	
57	57, 287	NGC 6720	M 57 Ring Neb	Pit Neb	Lyr	18 53 32	+ 33 01 54	9.5	1.3' x 1.0'	1,500	Smoke ring 0.5 ly dia., 14 mag. star 100K deg K	
58	58	NGC 4579	M 58	Spl Gal	Vir	12 37 46	+ 11 49 48	11	4.5' x 3.5'	70 M	Oval core with mottled halo, fairly bright	
59	59	NGC 4621	M 59	Ell Gal	Vir	12 42 04	+ 11 38 48	11.5	2.6' x 1.6'	40 M?	E4, hazy oval patch, 250 Bil stars, 24,000 ly across	
60	60	NGC 4649	M 60	Ell Gal	Vir	12 43 40	+ 11 33 48	10.5	3' x 3'	50 M?	11 mag. spiral NGC 4647 5' W of M 60	
61	61	NGC 4303	M 61	Spl Gal	Vir	12 21 59	+ 04 28 42	10.5	5' x 5'	70 M	Starlike nucleus, 3 spiral arms show as patches	
62	62	NGC 6266	M 62	Glob Cl	Oph	17 01 17	- 30 07 12	8	6' x 6'	18,000	Compact, grainy central region	
63	63	NGC 5055	M 63 Sunflower	Spl Gal	CVn	13 15 49	+ 42 02 12	10	10' x 6'	15 M	Grainy-looking central condensation	
64	64, 249	NGC 4826	M 64 Black-Eye	Spl Gal	Com	12 56 44	+ 21 40 54	9	6' x 3'	12 M	Sb, good detail, dark patch is "black eye"	
65	65	NGC 3623	M 65	Spl Gal	Leo	11 18 54	+ 13 05 48	10.5	8' x 1.5'	35 M	Sa spiral, tight arms, lens shaped	
66	66	NGC 3627	M 66	Spl Gal	Leo	11 20 12	+ 12 59 48	10	8' x 2.5'	35 M	Sb spiral, mottled appearance	
67	67, 236	NGC 2682	M 67	Open Cl	Cnc	08 51 04	+ 11 48 24	7.5	15' x 15'	2,250	Yellow stars 10 - 15 mag., 10 billion yr old cluster	
68	68	NGC 4590	M 68	Glob Cl	Hya	12 39 26	- 26 45 12	9	10' x 10'	40,000	12th mag. stars and fainter	
69	69	NGC 6637	M 69	Glob Cl	Sgr	18 31 20	- 32 20 54	9	3' x 3'	25,000	Compact core, 14-16 mag stars, 8th mag frgrnd *	
70	70	NGC 6681	M 70	Glob Cl	Sgr	18 43 14	- 32 18 30	9	3' x 3'	65,000	Compact, 14 - 17 mag. stars, 60 ly across	
71	71	NGC 6838	M 71	Glob Cl	Sge	19 53 43	+ 18 46 54	8.5	6' x 6'	8,500	Nearby, once thought to be open cl, "V" shape	
72	72	NGC 6981	M 72	Glob Cl	Aqr	20 53 28	- 12 32 18	10	2' x 2'	60,000	Small, loose globular 35 ly across	
73	73	NGC 6994	M 73	****	Aqr	20 58 58	- 12 37 12	9	1.2' x 1.2'	?	4 stars, thought to resemble a nebula by Messier	
74	74	NGC 628	M 74	Spl Gal	Psc	01 36 39	+ 15 47 36	10.5	8' x 8'	20M	Sc, starlike center, hint of arms	
75	75	NGC 6864	M 75	Glob Cl	Sgr	20 06 10	- 21 55 42	9.5	5' x 5'	100,000	Remote glob, extremely compact core	
76	76	NGC 650	M 76 Barbell	Pit Neb	Per	01 41 59	+ 51 34 36	12	1.5' x 0.8'	3,400	Irregular, 16.5mag *, faintest Messier object	
77	77	NGC 1068	M 77	Spl Gal	Cet	02 42 41	- 00 01 36	10.5	6' x 6'	30 M	Seyfert galaxy, starlike nucleus	
78	78	NGC 2068	M 78	Dif Neb	Ori	05 46 47	+ 00 03 30	8.3	8' x 6'	1,600	reflection nebula, 2-3 ly across, wispy	
79	79	NGC 1904	M 79	Glob Cl	Lep	05 24 14	- 24 31 42	8.5	3' x 3'	54,000	Compact Center	
80	80	NGC 6093	M 80	Glob Cl	Sco	16 17 06	- 22 59 42	8.5	3' x 3'	36,000	Strong central concentration of stars	
81	81, 237	NGC 3031	M 81	Spl Gal	UMa	09 55 39	+ 69 03 54	8.5	21' x 10'	7 M	Sb spiral, bright nucleus, 1 deg. from M82	
82	82, 238	NGC 3034	M 82	Irr Gal	UMa	09 55 52	+ 69 40 54	9.5	9' x 4'	7 M	Dark lane, chaotic, exploding	
83	83	NGC 5236	M 83	Spl Gal	Hya	13 37 07	- 29 51 36	8.5	10' x 8'	8 M	4 supernovas in M 83 in 50 years	
84	84	NGC 4374	M 84	Ell Gal	Vir	12 25 04	+ 12 53 42	11	2' x 2'	40 M?	Type E0, appears similar to unresolved glob	
85	85	NGC 4382	M 85	Ell Gal	Com	12 25 28	+ 18 11 42	10.5	4' x 2'	44 M	Irregular oval, 45,000 ly across, foreground star	
86	86	NGC 4406	M 86	Ell Gal	Vir	12 26 16	+ 12 56 42	11	2' x 1'	40 M?	E1 elliptical, well-defined edges	
87	87	NGC 4486	M 87	Ell Gal	Vir	12 30 52	+ 12 23 42	11	3' x 3'	50 M?	Giant elliptical w/jet, radio+x-ray, 790 Billion Mo	
88	88	NGC 4501	M 88	Spl Gal	Com	12 32 04	+ 14 25 42	11	5' x 2.5'	40 M	Starlike core, irregular brightness shows arms	
89	89	NGC 4552	M 89	Ell Gal	Vir	12 35 40	+ 12 33 42	11.5	2' x 2'	40 M?	Slightly oval elliptical	
90	90	NGC 4569	M 90	Spl Gal	Vir	12 36 52	+ 13 09 48	11	7' x 3'	40 M?	Diffuse central region, arms not visible	
91	91	NGC 4548	M 91	BSp Gal	Com	12 35 28	+ 14 29 42	11.5	4' x 4'	40 M?	Missing Messier object, visually appears oval	
92	92, 271	NGC 6341	M 92	Glob Cl	Her	17 17 10	+ 43 08 24	7.5	12' x 12'	28,000	100 ly across, concentrated bright center	
93	93	NGC 2447	M 93	Open Cl	Pup	07 44 34	- 23 52 42	6.5	18' x 18'	?	60 stars 8 - 13 mag.	
94	94, 247	NGC 4736	M 94	Spl Gal	CVn	12 50 59	+ 41 07 54	9.5	7' x 3'	14.5 M	Bright center, hint of arms, 33,000 ly across	
95	95	NGC 3351	M 95	BSp Gal	Leo	10 43 55	+ 11 42 06	11	3' x 3'	25 M	Bar is 1.4' x 0.3' with circular arms	
96	96	NGC 3368	M 96	Spl Gal	Leo	10 46 43	+ 11 49 06	10.5	6' x 4'	25 M	Bright center, oval shape	
97	97	NGC 3587	M 97 Owl Neb.	Pit Neb	Uma	11 14 45	+ 55 01 48	12	3' x 3'	2,600	1.5 ly across, round, 14 mag. center star	
98	98	NGC 4192	M 98	Spl Gal	Com	12 13 52	+ 14 54 42	11	8' x 2'	37 M	Nearly edge-on, bright nucleus, mottled	
99	99	NGC 4254	M 99	Spl Gal	Com	12 18 52	+ 14 25 42	10.5	4' x 4'	48 M	Face-on, hint of spirals, 50,000 ly across	
100	100	NGC 4321	M 100	Spl Gal	Com	12 22 58	+ 15 49 42	10.5	5' x 5'	40 M	Sc spiral, starlike nucleus, diffuse patch	
101	101	NGC 5457	M 101	Spl Gal	UMa	14 03 17	+ 54 21 48	8.5	22' x 22'	15 M	Sc face-on, very open, arms visible	
102	102	NGC 5457	M 102 = M 101	Spl Gal	UMa	14 03 17	+ 54 21 48	8.5	22' x 22'	15 M	Sc face-on, very open, arms visible	
103	103	NGC 581	M 103	Open Cl	Cas	01 33 16	+ 60 42 42	7	6' x 6'	8,000	40 * > 14mag, 14 ly across, "arrowhead	
104	104, 244	NGC 4594	M 104 Sombrero	Spl Gal	Vir	12 39 54	- 11 37 12	9.5	6' x 2'	40 M	Bright, edge-on, nuclear bulge, dark dust rim	
105	105	NGC 3379	M 105	Ell Gal	Leo	10 47 49	+ 12 35 06	11	2' x 2'	25 M	2 more members of Leo cluster within 15'	
106	106	NGC 4258	M106	Spl Gal	CVn	12 18 56	+ 47 18 42	9.5	19' x 8'	25M	25 deg. from edge-on, bright nucleus	
107	107	NGC 6171	M 107	Glob Cl	Oph	16 32 30	- 13 02 12	10	3' x 3'	10,000	50 ly across, discovered by Mechain in 1782	
108	108	NGC 3556	M 108	Spl Gal	Uma	11 11 33	+ 55 40 54	11	8' x 1'	25 M	Sc spiral nearly edge-on, dark & light nodules	
109	109	NGC 3992	M109	BSp Gal	UMa	11 57 36	+ 53 22 42	11	7' x 4'	35 M	Barred spiral, nucleus pear shaped	