

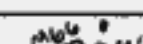
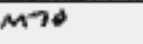
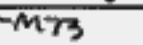
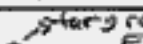
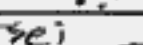
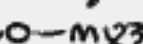
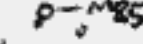
Astronomical League Binocular Messier Club

ID	Mag	Size	Type	Rating	Date	Time	Seeing	Transp	Bino Type	Description
M1	9.00	6x4	SNR	Challenge	Sep 16 2007	2:55AM	4/10	5.8	15x70 OBW	Small soft patch, 10 NW of Zeta Tau. Actually midway between Mars & Zeta Tau on this night. Great sight!
M2	7.50	12.9	G	Easy	Sep 17 2007	10:05PM	4/10	5.0	15x70 OBW	Bright, moderately condensed. Lies just north of an arching group of stars
M3	7.00	16.2	G	Easy	Sep 17 2007	8:20PM	4/10	5.0	15x70 OBW	Large, strongly condensed. Forms one corner of a downward pointing long isosceles triangle w/ 2 other stars
M4	7.50	26.3	G	Easy	Sep 17 2007	8:10PM	4/10	4.0	15x70 OBW	First gr moon was 20 from M4. Fun challenge. M4 was a large, soft glow, barely discernible over background sky/moon glow
M5	7.00	17.4	G	Easy	Sep 17 2007	8:50PM	4/10	4.0	15x70 OBW	Large, strongly condensed. Bright star & tweaked X shaped asterism just SW of it.
M6	4.50	15	OC	Easy	Sep 16 2007	9:25PM	3/10	5.0	15x70 OBW	Bright, fully resolved. Parallelogram formed by bright stars, looks much like a small Lyra, including handle. Orange star at E corner
M7	3.50	80	OC	Easy	Sep 16 2007	9:25PM	3/10	5.0	15x70 OBW	Large, fully resolved & fairly condensed. About 20 bright members over about 3 dozen fainter members. Orange star marks SW side of core
M8	5.00	60x35	DN+OC	Challenge	Sep 16 2007	9:45PM	3/10	5.0	15x70 OBW	Majestic, bright nebula swirling fully resolved star cluster. Nebula has 2 bright southern patches and a fainter north patch.
M9	9.00	9.3	G	Easy	Sep 17 2007	9:10PM	4/10	4.0	15x70 OBW	Small, faint, strongly condensed 
M10	7.50	15.1	G	Easy	Sep 16 2007	9:55PM	3/10	4.0	15x70 OBW	Soft, moderately condensed.
M11	7.00	14	OC	Easy	Sep 16 2007	9:30PM	3/10	5.0	15x70 OBW	Looks just like a globular cluster. Strongly condensed & round. Bright
M12	8.00	14.5	G	Easy	Sep 16 2007	9:55PM	3/10	4.0	15x70 OBW	Soft, not well condensed.
M13	7.00	16.6	G	Easy	Sep 16 2007	9:25PM	3/10	5.0	15x70 OBW	Bright, large, broadly condensed core. Forms apex of flat isosceles triangle w/ 2 bright stars.
M14	9.50	11.7	G	Tougher	Sep 16 2007	10:05PM	3/10	5.0	15x70 OBW	Small, soft, moderately condensed, forms right angle with a line of three stars to its North
M15	7.50	12.3	G	Easy	Sep 16 2007	3:40 AM	4/10	5.0	15x70 OBW	Strongly condensed, circular. Sits along side of triangular asterism.
M16	6.50	7	OC+EN	Easy	Sep 16 2007	10:30 PM	3/10	5.0	15x70 OBW	Grainy star cluster w/ several brighter members resting over soft, nebulous backdrop. Elongated E-W. 2 bright stars to south make it look larger
M17	7.00	11	OC+EN	Easy	Sep 16 2007	10:20PM	3/10	5.0	15x70 OBW	Elongated checkmark shaped nebula w/ E-W alignment & smooth pointing south on the west end
M18	8.00	9	OC	Easy	Sep 16 2007	10:25PM	3/10	5.0	15x70 OBW	Small, circular, partially resolved w/ some distinct stars lying over soft haze behind.
M19	8.50	13.5	G	Tougher	Sep 17 2007	9:00PM	4/10	4.0	15x70 OBW	Soft, moderately condensed. Sits beneath a trio of wide doubles that seem to point toward it. Neat context!
M20	5.00	28	N+OC	-	Sep 16 2007	9:40PM	3/10	5.0	15x70 OBW	Two-lobed nebulosity. Southern lobe is brightest. Both are centered on bright stars.
M21	7.00	13	OC	-	Sep 16 2007	9:45PM	3/10	5.0	15x70 OBW	Grainy cluster, enmeshed in Milky Way field. Strongly condensed core.
M22	6.50	24	G	Easy	Sep 16 2007	9:00PM	3/10	5.0	15x70 OBW	Bright, soft, circular with broad bright core. Sits just east of a triangular asterism w/ an orange eye star.
M23	6.00	27	OC	Easy	Sep 16 2007	9:50PM	3/10	5.0	15x70 OBW	Beautiful, large, finely grained cluster. Bright star rests outside the NW edge. Not concentrated.
M24	11.50	5	SC+OC	Easy	Sep 16 2007	10:00PM	3/10	5.0	15x70 OBW	Huge, sparkling cloud of stars, oblong w/ many bright stars over a fine grained backdrop
M25	4.90	40	OC	Easy	Sep 16 2007	10:15PM	3/10	5.0	15x70 OBW	Bright, irregular, nicely resolved w/ grainy background. Fairly condensed core.
M26	9.50	15	OC	Challenge	Sep 16 2007	10:35PM	3/10	5.0	15x70 OBW	Small, circular, not resolved except for 1 star on SW portion of core. Appears moderately condensed. Forms E apex of rt. triangle w/ 2 bright stars
M27	7.50	8x5.7	PN	Easy	Sep 17 2007	9:20PM	4/10	5.8	15x70 OBW	Bright, circular, two-lobed structure just barely visible
M28	8.50	11.2	G	Tougher	Sep 16 2007	9:05PM	3/10	5.0	15x70 OBW	Small, soft w/ strongly condensed core
M29			OC		Sep 16 2007	2:40AM	4/10	5.0	15x70 OBW	Small, grainy & condensed, same field as Sadr

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M30	8.50	11	G	Tougher	Sep 17 2007	10:00PM	4/10	5.0	15x70 OBW	Small, moderately condensed. Paired w/ a star of similar magnitude just to its west side. Much brighter star sits further to its east.
M31	4.50	178	Gal	Easy	Sep 16 2007	1:40AM	4/10	5.8	15x70 OBW	Beautiful, elongated, NW edge sharper w/ super condensed core.
M32	10.00	8x6	Gal	Challenge	Sep 16 2007	1:40AM	4/10	5.8	"	Soft @ small disc outside S edge of visible portion of M31
M33	7.00	73x45	Gal	Tougher	Sep 16 2007	2:05AM	4/10	5.8	"	Soft, oval, with broad central condensation. Sits within diamond asterism
M34	6.00	35	OC	Easy	Sep 16 2007	2:30AM	4/10	5.8	"	Spure, fairly resolved. Lies at the heart of rhombus asterism like heart in chest
M35	5.50	28	OC	Easy	Sep 16 2007	2:50AM	4/10	5.8	"	Large, soft & grainy w/ about 10 brighter stars involved. Nice curving string of stars. Peels away to the south.
M36	6.50	12	OC	Easy	Sep 16 2007	1:55AM	4/10	5.8	15x70 OBW	Grainy, concentrated. Shaped like an "A"
M37	6.00	24	OC	Easy	Sep 16 2007	1:55AM	4/10	5.8	"	Soft, lumpy, concentrated
M38	7.00	21	OC	Easy	Sep 16 2007	1:55AM	4/10	5.8	"	Grainy, irregular, loose. Sits just N. of Cheshire Cat Asterism
M39	5.50	32	OC	Easy	Sep 16 2007	2:45AM	4/10	5.0	"	Large, fully resolved, loose, about 2 dozen stars apparent. Crooked peace symbol shape
M40	9.00	0.8	DBI	Tougher	Sep 17 2007	8:40PM	4/10	5.0	"	Needed to memorize star field carefully. Turned up NE of 70 UMa. Couldn't resolve into 2 stars though.
M41	5.00	38	OC	Easy	Jan 26 2008	9:40PM	4/10	5.8	"	Large (340), w/ bright well-resolved stars over a field of fainter stars. X-shaped. Right central star appears yellow-orange.
M42	5.00	85x60	OC+EN	Easy	Sep 16 2007	3:05AM	4/10	5.0	15x70 OBW	Beautiful, bow/fan shape w/ loads of bright stars all around in linear sweep
M43	7.00	20x15	EN	-	Sep 16 2007	3:05AM	4/10	5.0	"	Tough to distinguish from M42. Centered on bright star N. of trapezium
M44	4.00	95	OC	Easy	Jan 26 2008	10:20PM	4/10	5.0	"	Huge w/ bright stars. About a dozen bright members w/ a couple dozen more fainter members. Has an almost rectangular appearance
M45	1.40	110	OC	Easy	Sep 16 2007	1:50AM	4/10	5.8	15x70 OBW	Brilliant, loose collection of bright blue stars. Wonderful streamer of stars hanging off
M46	6.50	27	OC	Easy	Jan 26 2008	9:55PM	4/10	5.8	"	Very soft, round haze w/ a grain of about 8 stars emerging above the background. Beautiful pair with M47. About 1/20 in size.
M47	4.50	30	OC	Easy	Jan 26 2008	9:55PM	4/10	5.8	"	Appears fully resolved w/ a couple dozen stars. Elongated NE-SW & about 3/40 wide in that direction.
M48	5.50	54	OC	Easy	Jan 26 2008	10:10PM	4/10	5.8	"	Large, grainy w/ more than a couple dozen stars resolving. Elongated NW-SE. Great binocular OC!
M49	10.00	9x7.5	Gal	Tougher	Mar 30 2008	11:00PM	4/10	5.8	"	Soft, non-descript patch, nearly midway between 2 bright stars in the "back" of a lawn chair asterism
M50	7.00	16	OC	Easy	Jan 26 2008	10:00PM	4/10	5.8	15x70 OBW	Full range of resolution, soft round haze with overlying grain and about 8 or so more distinct stars. Two brighter stars North & South give an oval appearance
M51	8.00	11x7	Gal	Challenge	Sep 17 2007	9:25PM	4/10	5.0	15x70 OBW	Soft, moderately condensed, appears to be elongated... indicating detection of NGC 5195 in the combined light
M52	8.00	13	OC	Easy	Sep 16 2007	2:40AM	4/10	5.8	15x70 OBW	Soft, round, mostly unresolved. One bright star superimposed
M53	8.50	12.6	G	Tougher	Mar 30 2008	10:50PM	4/10	5.8	15x70 OBW	Bright, round, with a broad, robust core. Situated between Diadem and a rough streamer of stars.
M54	8.50	9.1	G	Challenge	Sep 16 2007	9:10PM	3/10	5.0	15x70 OBW	Small, but strongly condensed core
M55	7.00	19	G	Easy	Sep 17 2007	9:35PM	4/10	5.0	15x70 OBW	Huge, bright, only slightly condensed. Circular.
M56	9.50	7.1	G	Challenge	Sep 16 2007	10:40PM	3/10	5.8	15x70 OBW	Soft, moderately condensed. Possibly overlapping star makes it look like a double-core aligned NW-SE
M57	9.50	1.4x1	PN	-	Sep 16 2007	10:35PM	3/10	5.8	15x70 OBW	Actually nicely visible. Almost stellar. Forms apex of a flat isosceles triangle of stars that is also connected to another triangle.

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M58	11.00	5.5x4.5	Gal	-	Apr 2 2008	9:35PM	5/10	5.8	15x70 OBW	A bit difficult just below a bright star. Somewhat condensed.  M58
M59	11.50	5x3.5	Gal	-	Apr 2 2008	9:20PM	5/10	5.8	15x70 OBW	Difficult. Near M60. Just a soft patch of haze.
M60	10.50	7x6	Gal	-	Apr 2 2008	9:20PM	5/10	5.8	15x70 OBW	Rather easy, soft patch. Good concentration at center.  M60
M61	10.50	6x5.5	Gal	-	Mar 30 2008	11:10PM	4/10	5.8	15x70 OBW	Soft patch in a bright, starry field  M61
M62	8.00	14.1	G	Tougher	Sep 17 2007	8:55PM	4/10	4.0	15x70 OBW	Tough sighting w/ moon & in this part of the sky. Strongly condensed.
M63	8.50	10x6	Gal	Tougher	Sep 17 2007	8:35PM	4/10	5.0	15x70 OBW	Tough sitting in this part of sky. Very subtle. Enoughed 2x1.
M64	9.00	9.3x5.4	Gal	Tougher	Mar 30 2008	10:50PM	4/10	5.8	15x70 OBW	Slightly oval, soft w/ gradual brightness profile. Sits below the base of a wide isosceles triangle of stars  M64
M65	10.50	8x1.5	Gal	Challenge	Mar 30 2008	10:35PM	4/10	5.8	15x70 OBW	Relatively easy to spot. Round. Forms rt. triangle w/ M66 & a bright star.
M66	10.00	8x2.5	Gal	Challenge	Mar 30 2008	10:35PM	4/10	5.8	15x70 OBW	Large and easy to see. Highly elongated w/ bright core situated between two bright stars & elongated in their direction  M66
M67	7.50	30	OC	Easy	Jan 26 2008	10:20AM	4/10	5.0	15x70 OBW	Soft, ellipse aligned SW-NE. A hint of granularity w/ 1 bright star on NE edge.
M68	9.00	12	G	Challenge	Apr 2 2008	9:05PM	5/10	5.8	15x70 OBW	Soft, unresolved spot. Only slight condensation with averted vision. Easy to confuse w/ nearby group of stars  M68
M69	9.00	7.1	G	-	Sep 16 2007	9:15PM	3/10	5.0	15x70 OBW	Small, faint, soft patch w/ notable star just north of it. Mildly condensed
M70	9.00	7.8	G	-	Sep 16 2007	9:20PM	3/10	5.0	15x70 OBW	Soft, faint patch, mildly condensed. Rests north of two angled star groups  M70
M71	8.50	7.2	G	Challenge	Sep 16 2007	10:45PM	3/10	5.8	15x70 OBW	Faint, soft, barely condensed. Wants to hide in lumpy Milkyway
M72	10.00	5.9	G	-	Sep 17 2007	9:50PM	4/10	5.0	15x70 OBW	Very faint & small. Located next to a star in the lower left corner of a rhomboid asterism  M72
M73	9.00	2.8	Ast	-	Sep 17 2007	9:55PM	4/10	5.0	15x70 OBW	Faint, and nearly stellar. Part of a line of 3 other stars.  M73
M74	10.50		Gal	-	Sep 16 2007	8:25AM	4/10	5.8	15x70 OBW	Extremely difficult. Midway from Eta Pisc to star pair with a mag 10.5 star X to the east. Small, faint glow  M74
M75	9.50	6	G	Challenge	Sep 17 2007	9:45PM	4/10	5.0	15x70 OBW	Small, faint, moderately condensed  M75
M76	12.00	2.7x1.8	PN	-	Sep 16 2007	2:15AM	4/10	5.8	15x70 OBW	Very difficult. Small, faint, soft patch N of 6.6 mag star in Perseus.  M76
M77	10.50	7x6	Gal	-	Sep 16 2007	3:15AM	4/10	5.8	"	Nearly 10 ESE of Delta Cet. Small, soft, faint spot at end of star chain  M77
M78	8.00	8x6	DN	Tougher	Sep 16 2007	3:00AM	4/10	5.0	15x70 OBW	Small, soft patch at rt. angle w/ Ori Belt stars
M79	8.50	8.7	G	Tougher	Sep 16 2007	3:00AM	4/10	5.8	15x70 OBW	Small, faint, fairly condensed. Notable companion star just to its south.
M80	8.50	8.9	G	Tougher	Sep 17 2007	8:15PM	4/10	4.0	15x70 OBW	Small, moderately condensed. Sports a close neighbor star on its north-east side. 1st Qtr moon 4 degrees away. Still showed up nicely.
M81	8.50	21x10	Gal	Tougher	Sep 16 2007	3:30 AM	4/10	5.8	15x70 OBW	Soft, oval with condensed core, just south of M82 for giant pair. Sits at N. apex of triangle formed w/ 2 stars.
M82	9.50	9x4	Gal	Tougher	Sep 16 2007	3:30 AM	4/10	5.8	"	Soft, highly elongated. Bright axis running along its core, but fainter than M81 to the south.
M83	8.50	11x10	Gal	Tougher	Apr 2 2008	11:15PM	5/10	5.0	15x70 OBW	Large! Softly circular, with mildly condensed core  M83
M84	11.00	5	Gal	-	Apr 2 2008	10:45PM	5/10	5.8	OBW 15x70	Fairly easy, right next to M86. Round and condensed.  M84
M85	10.50	7.1x5.2	Gal	-	Apr 2 2008	11:10PM	5/10	5.8	OBW 15x70	Situated right next to a star of similar magnitude. The well condensed core forms a "double" with that star. Circular galaxy appearance.  M85

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M86	11.00	7.5x5.5	Gal	-	Apr 2 2008	10:45PM	5/10	5.8	15x70 OBW	An easy catch, fairly condensed and slightly elongated. Right next to M84 & NGC 4435/4438 on either side.	! o - M84 o - M86
M87	11.00	7	Gal	-	Apr 2 2008	10:40PM	5/10	5.8	15x70 OBW	Fairly easy, large, well condensed.	o
M88	11.00	7x4	Gal	-	Apr 2 2008	10:30PM	5/10	5.8	15x70 OBW	Not too difficult. Soft, relatively large.	o - M88
M89	11.50	4	Gal	-	Apr 2 2008	10:20PM	5/10	5.8	15x70 OBW	Difficult, almost stellar, but still soft with a well condensed core.	o
M90	11.00	9.5x4.5	Gal	-	Apr 2 2008	10:20PM	5/10	5.8	15x70 OBW	Difficult, larger than M89, couldn't detect condensation.	o - M90
M91	11.50	5.4x4.4	Gal	-	Apr 2 2008	10:35PM	5/10	5.8	15x70 OBW	Very difficult. I think only the core was showing. Look like a faint star on the left corner of a triangle.	o - M91
M92	7.50	11.2	G	Easy	Sep 16 2007	9:35PM	3/10	5.0	15x70 OBW	Bright, soft, strongly condensed core.	o - M92
M93	6.50	22	OC	Easy	Jan 26 2008	9:45PM	4/10	5.8	"	Soft elongated (E-W) glow w/ 4 or 5 stars starting to resolve out of the mist over Andromeda's wide double.	o - M93
M94	9.50	7x3	Gal	Tougher	Feb 2 2008	11:25PM	3/10	5.8	"	Bright, round & sharply condensed.	o - M94
M95	11.00	4.4x3.3	Gal	-	Mar 30 2008	10:25PM	4/10	5.8	"	Very difficult. Forms shorter edge of right triangle with M96 and a brighter star. It also sits just east of another faint star.	o - M95
M96	10.50	6x4	Gal	-	Feb 2 2008	11:35PM	3/10	5.0	15x70 OBW	Soft, formless patch.	o - M96
M97	12.00	3.4x3.3	PN	Challenge	Feb 2 2008	10:55PM	3/10	5.8	15x70 OBW	Not easy, but much easier than nearby M108. A faint soft star-like object.	o - M97
M98	11.00	9.5x3.2	Gal	-	Apr 2 2008	11:00PM	5/10	5.8	15x70 OBW	Pretty difficult. Elongated & no condensation that I could see.	o - M98
M99	10.50	5.4x4.8	Gal	-	Apr 2 2008	10:55PM	5/10	5.8	15x70 OBW	Fairly easy, round, moderately condensed.	o - M99
M100	10.50	7x6	Gal	-	Apr 2 2008	10:55PM	5/10	5.8	15x70 OBW	Fairly easy, round, larger than M99 & moderately condensed.	o - M100
M101	8.50	22	Gal	Challenge	Sep 17 2007	8:45PM	4/10	5.0	15x70 OBW	Large! Very softly defined. Slightest hint of condensation & elongated NE-SW slightly.	o - M101
M102	10.50	5.2x2.3	Gal	-	Sep 17 2007	9:30PM	4/10	5.8	15x70 OBW	Required lots of effort. Very small, moderately condensed. Needed to compare closely to star field.	o - M102
M103	7.00	6	OC	Easy	Sep 16 2007	2:35AM	4/10	5.8	15x70 OBW	Linear shape, grainy, 3 prominent linear stars, N star brightest.	o - M103
M104	9.50	9x4	Gal	Challenge	Apr 2 2008	9:10PM	5/10	5.8	15x70 OBW	Fairly straightforward to see near a couple nice binocular doubles. Is easy to see elongation pointing toward brighter double.	o - M104
M105	11.00	2	Gal	-	Mar 30 2008	10:10PM	4/10	5.8	15x70 OBW	Almost stellar, w/ slight diffuseness. Forms right triangle w/ 2 nearby stars. Ended up sitting NGC 3384 right next to it!	o - M105
M106	9.50	19x8	Gal	Challenge	Feb 2 2008	11:20PM	3/10	5.8	15x70 OBW	Relatively easy. Elongated & brighter toward the middle. Rests along one edge of rt. triangle of stars.	o - M106
M107	10.00	10	G	-	Sep 17 2007	9:10PM	4/10	3.5	15x70 OBW	Extremely difficult with LP & low altitude. Appeared as slightest sky brightening w/ no detail to see at all.	o - M107
M108	11.00	8x1	Gal	-	Feb 2 2008	11:00PM	3/10	5.8	"	Very difficult & intermittent. But at right position at end of an arc of stars. Very soft, but elongated.	o - M108
M109	11.00	7x4	Gal	-	Feb 2 2008	11:15PM	3/10	5.8	"	Very difficult. Right next to a 4th mag star. Appears as a soft glow hanging off of this star.	o - M109
M110	10.00	17x10	Gal	-	Sep 16 2007	1:40AM	4/10	5.8	15x70 OBW	Very faint patch brightening sky NW of M31 & perpendicular to M31's axis.	o - M110