

## Messier Objects *Observer's Checklist*

Observer:

√ ID	RA	DEC	CON	TYPE	MAG	SIZE	NAME	NOTES
ID	RA	DEC	CON	TYPE	MAG	SIZE	NAME	NOTES
√ M1	05h34m32s	22°00'52"	Tau	PNE	8.4	6x4	M1, NGC1952, Crab Nebula	WINTER Rating:EX vB, vL, E 135deg +/- , vglbM, r Binoculars: 7x35: Challenge; 20x80: Tougher
√ M2	21h33m27s	00°49'23"	Aqr	GCL	7.5	12.9	M2, NGC7089	AUTUMN Rating:EX !!, glob. cl. , B, vL, gpmbM, rrr, st eS Binoculars: 7x35: Easy; 20x80: Easy
√ M3	13h42m11s	28°22'35"	CVn	GCL	7	16.2	M3, NGC5272	SPRING Rating:EX !!, glob. cl. , eB, vL, vsmbM, st 11... Binoculars: 7x35: Easy; 20x80: Easy
√ M4	16h23m35s	-26°31'35"	Sco	GCL	7.5	26.3	M4, NGC6121, Cat's Eye	SUMMER Rating:EX Cl, 8 or 10 B st line, with 5 st, rrr Binoculars: 7x35: Easy; 20x80: Easy
√ M5	15h18m33s	02°04'57"	Ser	GCL	7	17.4	M5, NGC5904	SPRING Rating:EX !!, glob. cl. , vB, L, eCM, st 11...15 Binoculars: 7x35: Easy; 20x80: Easy
√ M6	17h40m20s	-32°15'12"	Sco	OCL	4.5	15	M6, NGC6405, Butterfly Cluster	SUMMER Rating:SU Cl, L, iR, IC, st 7, 10... Binoculars: 7x35: Easy; 20x80: Easy
√ M7	17h53m51s	-34°47'36"	Sco	OCL	3.5	80	M7, NGC6475, Scorpion's Tail, Ptolemy's Cluster	SUMMER Rating:SU Cl, vB, pRi, IC, st 7...12 Binoculars: 7x35: Easy; 20x80: Easy
√ M8	18h03m41s	-24°22'48"	Sgr	OCL + DNE	5	90	M8, NGC6523, Lagoon Nebula	SUMMER Rating:EX !!! vB, eL, eiF, with L Cl Binoculars: 7x35: Easy; 20x80: Easy
√ M9	17h19m12s	-18°30'58"	Oph	GCL	9	9.3	M9, NGC6333	SUMMER Rating:VG glob. cl. , B, L, R, eCM, rrr, st 14 Binoculars: 7x35: Challenge; 20x80: Tougher
√ M10	16h57m09s	-04°05'56"	Oph	GCL	7.5	15.1	M10, NGC6254	SUMMER Rating:EX ! glob. cl. , B, vL, R, gvmbM, rrr, st 10...15 Binoculars: 7x35: Easy; 20x80: Easy
√ M11	18h51m05s	-06°16'12"	Sct	OCL	7	14	M11, NGC6705, Wild Duck Cluster	SUMMER Rating:EX !, Cl, vB, L, iR, Ri, *9, st 11... Binoculars: 7x35: Easy; 20x80: Easy
√ M12	16h47m14s	-01°56'52"	Oph	GCL	8	14.5	M12, NGC6218, Gumball Globular	SUMMER Rating:EX !! glob. Cl. , vB, vL, iR, gmbM, rrr, st 10... Binoculars: 7x35: Easy; 20x80: Easy

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√ M13	16h41m41s	36°27'35"	Her	GCL	7	16.6	M13, NGC6205, Hercules Cluster	SUMMER Rating:EX !! glob. cl. , eB, vRi, vgeCM, st 11... Binoculars: 7x35: Easy; 20x80: Easy
√ M14	17h37m36s	-03°14'43"	Oph	GCL	9.5	11.7	M14, NGC6402	SUMMER Rating:VG ! glob. cl. , B, vL, R, eRi, vgmbM, rrr, st 15 Binoculars: 7x35: Tougher; 20x80: Easy
√ M15	21h29m58s	12°10'02"	Peg	GCL	7.5	12.3	M15, NGC7078, Pegasus Cluster	AUTUMN Rating:EX !, glob. cl. , vB, vL, iR, vsmbM, rrr, st vS Binoculars: 7x35: Easy; 20x80: Easy
√ M16	18h18m48s	-13°48'24"	Ser	OCL + DNE	6.5	35	M16, NGC6611, Eagle Nebula	SUMMER Rating:EX Cl, at least 100 st L & S Binoculars: 7x35: Easy; 20x80: Easy
√ M17	18h20m47s	-16°10'18"	Sgr	OCL + DNE	7	46	M17, NGC6618, Omega Nebula	SUMMER Rating:EX !!!, B, eL, eiF, 2 hooked Binoculars: 7x35: Easy; 20x80: Easy
√ M18	18h19m58s	-17°06'07"	Sgr	OCL	8	9	M18, NGC6613, Black Swan	SUMMER Rating:EX Cl, P, vIC Binoculars: 7x35: Easy; 20x80: Easy
√ M19	17h02m38s	-26°16'04"	Oph	GCL	8.5	13.5	M19, NGC6273	SUMMER Rating:VG glob. cl. , vB, L, R, vCM, rrr, st 16 Binoculars: 7x35: Tougher; 20x80: Easy
√ M20	18h02m42s	-22°58'18"	Sgr	OCL + DNE	5	29	M20, NGC6514, Trifid Nebula	SUMMER Rating:EX !!! vB, vL, trifid, D* inv Binoculars: 7x35: NA; 20x80: Challenge
√ M21	18h04m13s	-22°29'24"	Sgr	OCL	7	13	M21, NGC6531	SUMMER Rating:EX Cl, pRi, IC, st 9...12 NOT VISIBLE WITH BINOCULARS
√ M22	18h36m24s	-23°54'17"	Sgr	GCL	6.5	24	M22, NGC6656, Sagittarius Cluster	SUMMER Rating:EX !!, glob. cl. , vB, vL, R, vRi, vmC, st 11...15 Binoculars: 7x35: Easy; 20x80: Easy
√ M23	17h57m04s	-18°59'06"	Sgr	OCL	6	27	M23, NGC6494	SUMMER Rating:EX Cl, B, vL, pRi, IC, st 10... Binoculars: 7x35: Easy; 20x80: Easy
√ M24	18h18m26s	-18°24'24"	Sgr	OCL	4.5	80x35	M24, NGC6603, Sagittarius Star Cloud, Milky Way Star Patch	SUMMER Rating:VG !, Cl, vRi, vmC, R, st 15 (Milky Way) Binoculars: 7x35: Easy; 20x80: Easy

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√ M25	18h31m42s	-19°07'00"	Sgr	OCL	6.5	40	M25, IC4725	SUMMER Rating:VG  Binoculars: 7x35: Easy; 20x80: Easy
√ M26	18h45m18s	-09°22'60"	Sct	OCL	9.5	15	M26, NGC6694	SUMMER Rating:VG Cl, cL, pRi, pC, st 12...15 Binoculars: 7x35: Challenge; 20x80: Easy
√ M27	19h59m36s	22°43'15"	Vul	PNE	7.5	15.2	M27, NGC6853, Dumbbell Nebula	SUMMER Rating:VG !!!, vB, vL, biN, iE (Dumbbell) Binoculars: 7x35: Easy; 20x80: Easy
√ M28	18h24m33s	-24°52'07"	Sgr	GCL	8.5	11.2	M28, NGC6626	SUMMER Rating:EX !, glob. cl. , vB, L, R, geCM, rrr, st 14...16 Binoculars: 7x35: Tougher; 20x80: Easy
√ M29	20h23m57s	38°30'30"	Cyg	OCL	9	7	M29, NGC6913, Cooling Tower	SUMMER Rating:EX Cl, P, IC, st L and S Binoculars: 7x35: Easy; 20x80: Easy
√ M30	21h40m22s	-23°10'45"	Cap	GCL	8.5	11	M30, NGC7099	AUTUMN Rating:VG !, glob. cl. , B, L, IE, gpmbM, st 12...16 Binoculars: 7x35: Tougher; 20x80: Easy
√ M31	00h42m44s	41°16'08"	And	GXY	4.3	189.1x61.7	M31, NGC224, Andromeda Galaxy	AUTUMN Rating:EX !!! eeB, eL, vmE (Andromeda) Binoculars: 7x35: Easy; 20x80: Easy
√ M32	00h42m42s	40°51'54"	And	GXY	9.1	8.5x6.5	M32, NGC221, Satellite Of M31	AUTUMN Rating:VG ! vvB, L, R, psmbMN Binoculars: 7x35: Challenge; 20x80: Easy
√ M33	01h33m51s	30°39'37"	Tri	GXY	6.2	68.7x41.6	M33, NGC598, Pinwheel Galaxy, Triangulum Galaxy	AUTUMN Rating:VG ! eB, eL, R, vgbMN Binoculars: 7x35: Tougher; 20x80: Tougher
√ M34	02h42m05s	42°45'42"	Per	OCL	6	35	M34, NGC1039, Spiral Cluster	AUTUMN Rating:VG Cl, B, vL, IC, sc st 9 Binoculars: 7x35: Easy; 20x80: Easy
√ M35	06h09m00s	24°21'00"	Gem	OCL	5.5	28	M35, NGC2168	WINTER Rating:VG Cl, vL, cRi, pC, st 9...16 Binoculars: 7x35: Easy; 20x80: Easy
√ M36	05h36m18s	34°08'24"	Aur	OCL	6.5	12	M36, NGC1960, Pinwheel Cluster	WINTER Rating:VG Cl, B, vL, vRi, IC, st 9...11 sc Binoculars: 7x35: Easy; 20x80: Easy

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√ M37	05h52m18s	32°33'12"	Aur	OCL	6	24	M37, NGC2099, Salt-And- Pepper Cluster	WINTER Rating:VG Cl, Ri, pCM, st L & S Binoculars: 7x35: Easy; 20x80: Easy
√ M38	05h28m40s	35°50'54"	Aur	OCL	7	21	M38, NGC1912, Starfish Cluster	WINTER Rating:VG Cl, B, vL, vRi, iF, st L & S Binoculars: 7x35: Easy; 20x80: Easy
√ M39	21h31m42s	48°25'00"	Cyg	OCL	5.5	32	M39, NGC7092	SUMMER Rating:SU Cl, vL, vP, vC, st 7...10 Binoculars: 7x35: Easy; 20x80: Easy
√ M40	12h22m12s	58°04'60"	UMa	DST, AST	8.7	1	M40, Winnecke 4	SPRING Rating:VG  Binoculars: 7x35: Tougher; 20x80: Easy
√ M41	06h46m01s	-20°45'24"	CMa	OCL	5	38	M41, NGC2287, Little Beehive	WINTER Rating:VG Cl, vL, B, IC, st 8... Binoculars: 7x35: Easy; 20x80: Easy
√ M42	05h35m16s	-05°23'25"	Ori	OCL + DNE	4	66	M42, NGC1976, Great Orion Nebula	WINTER Rating:SU !!! theta1 Ori and the great neb Binoculars: 7x35: Easy; 20x80: Easy
√ M43	05h35m31s	-05°16'03"	Ori	DNE	9	20	M43, NGC1982, De Mairan's Nebula	WINTER Rating:VG ! vB, vL, R with tail, mbM *8-9 NOT VISIBLE WITH BINOCULARS
√ M44	08h40m24s	19°39'60"	Cnc	OCL	4	95	M44, NGC2632, Beehive Cluster, Praesepe Cluster	SPRING Rating:SU Praesepe Binoculars: 7x35: Easy; 20x80: Easy
√ M45	03h47m30s	24°07'00"	Tau	OCL	1.6	120	M45, Pleiades, Seven Sisters	WINTER Rating:VG  Binoculars: 7x35: Easy; 20x80: Easy
√ M46	07h41m46s	-14°48'36"	Pup	OCL	6.5	27	M46, NGC2437	WINTER Rating:EX !, Cl, vB, vRi, vL, inv PN Binoculars: 7x35: Easy; 20x80: Easy
√ M47	07h36m35s	-14°29'00"	Pup	OCL	4.5	30	M47, NGC2422	WINTER Rating:SU Cl, B, vL, pRi, st L and S Binoculars: 7x35: Easy; 20x80: Easy
√ M48	08h13m43s	-05°45'00"	Hya	OCL	5.5	54	M48, NGC2548	WINTER Rating:EX Cl, vL, pRi, pmC, st 9...13 Binoculars: 7x35: Easy; 20x80: Easy
√ M49	12h29m47s	08°00'01"	Vir	GXY	9.3	9.8x8.2	M49, NGC4472, UGC7629	SPRING Rating:VG vB, L, R, mbM, r Binoculars: 7x35: Tougher; 20x80:

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√ M50	07h02m42s	-08°22'60"	Mon	OCL	7	16	M50, NGC2323, Heart-shaped Cluster	WINTER Rating:GD ! Cl, vL, Ri, pC, E, st 12...16 Binoculars: 7x35: Easy; 20x80: Easy
√ M51	13h29m52s	47°11'45"	CVn	GXY	8.9	10.8x6.6	M51, NGC5194, Whirlpool Galaxy	SPRING Rating:VG !!!, great spiral neb Binoculars: 7x35: Challenge; 20x80: Tougher
√ M52	23h24m48s	61°35'36"	Cas	OCL	8	13	M52, NGC7654, The Scorpion	AUTUMN Rating:EX vF Binoculars: 7x35: Easy; 20x80: Easy
√ M53	13h12m55s	18°10'07"	Com	GCL	8.5	12.6	M53, NGC5024	SPRING Rating:VG !, glob. cl. , B, vC, iR, vvmBM, st 12 Binoculars: 7x35: Tougher; 20x80: Easy
√ M54	18h55m03s	-30°28'47"	Sgr	GCL	8.5	9.1	M54, NGC6715	SUMMER Rating:VG glob. cl. , vB, L, R, g, smbM, rrr, st 15 Binoculars: 7x35: Challenge; 20x80: Tougher
√ M55	19h39m60s	-30°57'44"	Sgr	GCL	7	19	M55, NGC6809	SUMMER Rating:EX glob. cl. , pB, L, R, vRi, vgbM, st 12...15 Binoculars: 7x35: Easy; 20x80: Easy
√ M56	19h16m36s	30°11'02"	Lyr	GCL	9.5	7.1	M56, NGC6779	SUMMER Rating:VG glob. cl. , B, L, iR, gvmCM, rrr, st 11...14 Binoculars: 7x35: Challenge; 20x80: Tougher
√ M57	18h53m35s	33°01'44"	Lyr	PNE	9.5	2.5	M57, NGC6720, Ring Nebula	SUMMER Rating:VG !!!, ring , B, pL, cE (in Lyra) NOT VISIBLE WITH BINOCULARS
√ M58	12h37m44s	11°49'06"	Vir	GXY	10.4	6x4.8	M58, NGC4579, UGC7796	SPRING Rating:GD B, L, iR, vmbM, r Binoculars: 7x35: NA; 20x80: Challenge
√ M59	12h42m02s	11°38'48"	Vir	GXY	10.7	5.3x4	M59, NGC4621, UGC7858	SPRING Rating:GD B, pL, IE, vsvmbM, 2 st p Binoculars: 7x35: NA; 20x80: Challenge
√ M60	12h43m40s	11°33'08"	Vir	GXY	9.8	7.6x6.2	M60, NGC4649, UGC7898	SPRING Rating:GD vB, pL, R, f of Dneb Binoculars: 7x35: NA; 20x80: Challenge
√ M61	12h21m55s	04°28'23"	Vir	GXY	10.1	6.5x5.9	M61, NGC4303,	SPRING Rating:GD

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							Swelling Spiral	vB, vL, vsbM*, biN Binoculars: 7x35: NA; 20x80: Challenge
√ M62	17h01m13s	-30°06'45"	Oph	GCL	8	14.1	M62, NGC6266, Flickering Globular	SUMMER Rating:EX ! glob. cl. , vB, L, gmbM, rrr, st 14...16 Binoculars: 7x35: Tougher; 20x80: Easy
√ M63	13h15m49s	42°01'46"	CVn	GXY	9.3	12.6x7.5	M63, NGC5055, Sunflower Galaxy	SPRING Rating:VG vB, L, pmE 120deg +/- , vsmbMBN Binoculars: 7x35: Tougher; 20x80: Tougher
√ M64	12h56m44s	21°40'58"	Com	GXY	9.3	10.3x5	M64, NGC4826, Black Eye Galaxy	SPRING Rating:VG ! vB, vL, vmE 120deg +/- , bMSBN Binoculars: 7x35: Tougher; 20x80: Tougher
√ M65	11h18m56s	13°05'31"	Leo	GXY	10.1	9x2.3	M65, NGC3623, Leo Triplet	SPRING Rating:GD B, vL, mE 165deg +/- , gbMBN Binoculars: 7x35: Challenge; 20x80: Tougher
√ M66	11h20m15s	12°59'26"	Leo	GXY	9.7	9.1x4.1	M66, NGC3627, Leo Triplet	SPRING Rating:VG B, vL, mE 150deg , mbM, 2 st np Binoculars: 7x35: Challenge; 20x80: Tougher
√ M67	08h51m18s	11°48'00"	Cnc	OCL	7.5	30	M67, NGC2682, King Cobra	SPRING Rating:EX ! Cl, vB, vL, eRi, IC, st 10...15 Binoculars: 7x35: Easy; 20x80: Easy
√ M68	12h39m28s	-26°44'32"	Hya	GCL	9	12	M68, NGC4590	SPRING Rating:VG glob. cl. , L, eRi, vC, iR, rrr, st 12 Binoculars: 7x35: Challenge; 20x80: Tougher
√ M69	18h31m23s	-32°20'51"	Sgr	GCL	9	7.1	M69, NGC6637	SUMMER Rating:VG glob. cl. , B, L, R, rrr, st 14...16 Binoculars: 7x35: NA; 20x80: Challenge
√ M70	18h43m12s	-32°17'27"	Sgr	GCL	9	7.8	M70, NGC6681	SUMMER Rating:VG glob. cl. , B, pL, R, gbM, st 14...17 Binoculars: 7x35: NA; 20x80: Challenge
√ M71	19h53m46s	18°46'42"	Sge	GCL	8.5	7.2	M71, NGC6838	SUMMER Rating:VG Cl, vL, vRi, pmC, st 11...16 Binoculars: 7x35: Challenge; 20x80: Easy
√ M72	20h53m28s	-12°32'14"	Aqr	GCL	10	5.9	M72, NGC6981	AUTUMN Rating:GD glob. cl. , pB, pL, R, gmCM, rrr Binoculars: 7x35: NA; 20x80: Challenge

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√ M73	20h58m56s	-12°38'07"	Aqr	OCL, AST	9	3	M73, NGC6994	AUTUMN Rating:VG Cl, eP, vIC, no neb NOT VISIBLE WITH BINOCULARS
√ M74	01h36m42s	15°47'01"	Psc	GXY	9.8	10x9.4	M74, NGC628, The Phantom	AUTUMN Rating:GD glob. cl. , F, vL, R, vg, psmbM, rr NOT VISIBLE WITH BINOCULARS
√ M75	20h06m05s	-21°55'19"	Sgr	GCL	9.5	6	M75, NGC6864	SUMMER Rating:VG glob. cl. , B, pL, R, vmbMBN, rr Binoculars: 7x35: Challenge; 20x80: Tougher
√ M76	01h42m18s	51°34'15"	Per	PNE	12	4.8	M76, NGC650, NGC651, Little Dumbbell Nebula	AUTUMN Rating:VG vB, p of Dneb NOT VISIBLE WITH BINOCULARS
√ M77	02h42m41s	00°00'48"	Cet	GXY	9.7	7.3x6.3	M77, NGC1068, Cetus A	AUTUMN Rating:GD vB, pL, iR, sbMrrN Binoculars: 7x35: NA; 20x80: Tougher
√ M78	05h46m45s	00°04'48"	Ori	DNE	8	8	M78, NGC2068	WINTER Rating:VG B, L, wisp, gmbN, 3 st inv, r Binoculars: 7x35: Tougher; 20x80: Easy
√ M79	05h24m11s	-24°31'29"	Lep	GCL	8.5	8.7	M79, NGC1904	WINTER Rating:GD glob. cl. , pL, eRi, eC, rrr Binoculars: 7x35: Tougher; 20x80: Easy
√ M80	16h17m03s	-22°58'32"	Sco	GCL	8.5	8.9	M80, NGC6093	SUMMER Rating:VG !! glob. cl. , vB, L, vmbM (var*), rrr, st 14 Binoculars: 7x35: Tougher; 20x80: Easy
√ M81	09h55m33s	69°03'56"	UMa	GXY	7.8	24.9x11.5	M81, NGC3031, Bode's Galaxy	SPRING Rating:VG ! eB, eL, E 156deg , gsvmbMBN Binoculars: 7x35: Tougher; 20x80: Easy
√ M82	09h55m53s	69°40'50"	UMa	GXY	9.2	10.5x5.1	M82, NGC3034, Cigar Galaxy	SPRING Rating:VG vB, vL, vmE (ray) Binoculars: 7x35: Tougher; 20x80: Easy
√ M83	13h37m00s	-29°51'51"	Hya	GXY	8	13.1x12.2	M83, NGC5236, Southern Pinwheel	SPRING Rating:VG !! vB, vL, E 55deg , esbMN, 3-br spir Binoculars: 7x35: Tougher; 20x80: Tougher
√ M84	12h25m04s	12°53'12"	Vir	GXY	10.2	6.7x6	M84, NGC4374, UGC7494	SPRING Rating:GD vB, pL, R, psbM, r Binoculars: 7x35: NA; 20x80:

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√ M85	12h25m24s	18°11'27"	Com	GXY	10	7.4x5.9	M85, NGC4382, UGC7508	SPRING Rating:GD vB, pL, R, bM, * np Binoculars: 7x35: NA; 20x80: Challenge
√ M86	12h26m12s	12°56'46"	Vir	GXY	9.9	9.8x6.3	M86, NGC4406, UGC7532	SPRING Rating:GD vB, L, R, gbMN, r Binoculars: 7x35: NA; 20x80: Challenge
√ M87	12h30m49s	12°23'27"	Vir	GXY	9.6	8.7x6.6	M87, NGC4486, Virgo A, Smoking Gun	SPRING Rating:GD vB, vL, R, mbM, 3rd of 3 Binoculars: 7x35: NA; 20x80: Tougher
√ M88	12h31m59s	14°25'12"	Com	GXY	10.2	6.8x3.7	M88, NGC4501, UGC7675	SPRING Rating:GD B, vL, vmE Binoculars: 7x35: NA; 20x80: Challenge
√ M89	12h35m40s	12°33'23"	Vir	GXY	10.9	5.3x4.8	M89, NGC4552, UGC7760	SPRING Rating:GD pB, pS, R, gmbM Binoculars: 7x35: NA; 20x80: Challenge
√ M90	12h36m50s	13°09'48"	Vir	GXY	10.2	9.9x4.4	M90, NGC4569, UGC7786	SPRING Rating:GD pL, Bmn Binoculars: 7x35: NA; 20x80: Challenge
√ M91	12h35m27s	14°29'47"	Com	GXY	10.9	5.2x4.2	M91, NGC4548, (Missing)	SPRING Rating:GD B, L, IE, lbM NOT VISIBLE WITH BINOCULARS
√ M92	17h17m07s	43°08'11"	Her	GCL	7.5	11.2	M92, NGC6341	SUMMER Rating:EX glob. cl. , vB, vL, eCM, rrr, st S Binoculars: 7x35: Easy; 20x80: Easy
√ M93	07h44m30s	-23°51'24"	Pup	OCL	6.5	22	M93, NGC2447	WINTER Rating:EX Cl, L, pRi, IC, st 8...13 Binoculars: 7x35: Easy; 20x80: Easy
√ M94	12h50m53s	41°07'12"	CVn	GXY	8.9	12.3x10.8	M94, NGC4736, Croc's Eye Galaxy	SPRING Rating:VG vB, L, iR, vsymbMBN, r Binoculars: 7x35: Easy; 20x80: Easy
√ M95	10h43m58s	11°42'13"	Leo	GXY	10.6	7.3x4.4	M95, NGC3351, UGC5850	SPRING Rating:GD B, L, R, pgmbMN Binoculars: 7x35: NA; 20x80: Challenge
√ M96	10h46m46s	11°49'12"	Leo	GXY	10.1	7.8x5.2	M96, NGC3368, UGC5882	SPRING Rating:GD vB, vL, IE, vsymbM, r Binoculars: 7x35: NA; 20x80: Challenge

## Messier Objects *Observer's Checklist*

Observer:

√ ID	RA	DEC	CON	TYPE	MAG	SIZE	NAME	NOTES
√ M97	11h14m48s	55°01'08"	UMa	PNE	12	3.2	M97, NGC3587, Owl Nebula	SPRING Rating:FR !! , PN , vB, vL, R, vvg, vsbM, 150 d Binoculars: 7x35: Challenge; 20x80: Tougher
√ M98	12h13m48s	14°54'01"	Com	GXY	10.9	9.4x2.3	M98, NGC4192, UGC7231	SPRING Rating:GD B, vL, vmE 152deg , vsvmbM NOT VISIBLE WITH BINOCULARS
√ M99	12h18m50s	14°25'01"	Com	GXY	10.4	5.3x4.6	M99, NGC4254, Pinwheel Galaxy	SPRING Rating:GD !! B, L, R, gbM, r, 3-branched spiral Binoculars: 7x35: NA; 20x80: Challenge
√ M100	12h22m55s	15°49'21"	Com	GXY	10.1	7.5x6.1	M100, NGC4321, Mirror of M99	SPRING Rating:GD !! pF, vL, R, vg, psbMrN, 2-br spir Binoculars: 7x35: NA; 20x80: Challenge
√ M101	14h03m13s	54°20'56"	UMa	GXY	8.2	28.5x28.3	M101, NGC5457, Pinwheel Galaxy	SPRING Rating:VG pB, vL, iR, g, vsmbMBSN Binoculars: 7x35: Challenge; 20x80: Tougher
√ M102	15h06m30s	55°45'47"	Dra	GXY	10.8	6.5x3.1	M102, NGC5866, Spindle Galaxy	SPRING Rating:FR pB, vL, iR, g, vsmbMBSN Binoculars: 7x35: NA; 20x80: Tougher
√ M103	01h33m23s	60°39'00"	Cas	OCL	7	6	M103, NGC581	AUTUMN Rating:VG Cl, pL, B, R, Ri, st 10...11 Binoculars: 7x35: Easy; 20x80: Easy
√ M104	12h39m59s	-11°37'23"	Vir	GXY	9.2	8.6x4.2	M104, NGC4594, Sombrero Galaxy	SPRING Rating:VG !, vB, vL, eE 92deg , vsmbMN Binoculars: 7x35: Challenge; 20x80: Tougher
√ M105	10h47m50s	12°34'55"	Leo	GXY	10.5	5.3x4.8	M105, NGC3379, UGC5902	SPRING Rating:GD vB, cL, R, psbM, r Binoculars: 7x35: NA; 20x80: Challenge
√ M106	12h18m58s	47°18'16"	CVn	GXY	9.1	17.4x6.6	M106, NGC4258, UGC7353	SPRING Rating:VG vB, vL, vmE 0deg , sbMBN Binoculars: 7x35: Challenge; 20x80: Tougher
√ M107	16h32m32s	-13°03'11"	Oph	GCL	10	10	M107, NGC6171	SUMMER Rating:VG glob. cl. , L, vRi, vmC, R, rrr Binoculars: 7x35: NA; 20x80: Challenge
√ M108	11h11m31s	55°40'26"	UMa	GXY	10.6	8.6x2.4	M108, NGC3556, UGC6225	SPRING Rating:GD cB, vL, vmE 79deg , pbM, r Binoculars: 7x35: NA; 20x80:

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√ ID	RA	DEC	CON	TYPE	MAG	SIZE	NAME	NOTES Challenge
√ M109	11h57m36s	53°22'29"	UMa	GXY	10.6	7.5x4.4	M109, NGC3992, UGC6937	SPRING Rating:GD cB, vL, pmE, sbMBrN Binoculars: 7x35: NA; 20x80: Challenge
√ M110	00h40m22s	41°41'07"	And	GXY	8.9	19.5x11.5	M110, NGC205, Satellite Of M31	AUTUMN Rating:VG vB, vL, mE 165deg , vgvmbM Binoculars: 7x35: NA; 20x80: Challenge