

Messier Marathon Tracking List							Seen in		By		Location/Observing Notes	
M #	Order	NGC	Con	Mag	Type	Time	39x100	18x50	10x42	C		K
77	1	1068	Cetus	8.8	SG	8:55	✓			✓		1 degree to left of Delta Ceti (bottom 2 stars of Orion point to it) - look for diagonal row of four 9th mag stars - last "star" is M77.
74	2	628	Pisces	9.2	S	8:52.5	✓			✓	✓	Phantom - Up from Eta Piscium and look for the "hat"
33	3	598	Triangulum	5.7	SG	8:42	✓			✓		PinWheelTrace M31 back to Mirach - same distance on other side - also, line from Mirach to Hamal and line from 41 Arietas to Razalmothallah.
31	4	224	Andromeda	3.4	SG	8:40	✓			✓	✓	Andromeda
32	5	221	Andromeda	8.2	EG	8:40	✓			✓	✓	Small, round Satellite galaxy of Andromeda
110	6	205	Andromeda	8.0	EG	8:40	✓			✓		Larger, fainter satellite galaxy of Andromeda
52	7	7654	Cassiopea	6.9	OC	8:55	✓			✓	✓	Scorpion - Small cluster - salt & pepper type - Line from Schedar to Caph and extend same distance on other side + 1 degree.
103	8	581	Cassiopea	7.4	OC	9:02	✓			✓	✓	Not very impressive, but easily found - one degree from Ruchbah
76	9	650	Perseus	11.5	PN	9:01	✓	✓		✓	✓	Cork nebula (aka little DumbBell nebula) V. difficult use 3 middle stars in Cass'pa to find 51 And and Phi Persei - 1deg from Phi Persei ("fish")
34	10	1039	Perseus	5.2	OC	9:01			✓	✓		Spiral Cluster - Very open cluster - line from Schedar in Cassopeia through Phi Persei - same distance on other side
45	11		Taurus	1.2	OC	8:15			✓	✓		Pleiades
79	12	1904	Lepus	8.0	GC	9:15		✓	✓	✓		Line from Arneb to Nihal, extend same distance downwards plus a bit
42	13	1976	Orion	4.0	DN	9:11	✓		✓	✓		Orion Nebula
43	14	1982	Orion	9.0	DN	9:05	✓			✓	✓	De Mairan's Nebula - right next to Great Orion Nebula
78	15	2068	Orion	8.0	DN	9:02	✓			✓		right angle "up" from Alnitak, slightly less than distance to Mintaka
1	16	1952	Taurus	8.4	PN	9:05			✓	✓	✓	Crab Nebula. Remnant of a supernova in the year 1054.
35	17	2168	Gemini	5.1	OC	9:10			✓	✓	✓	Open Cluster - line from Zeta Tauri(Crab) 8 deg. towards Castor - look for last 3 stars in Gemini on Auriga side
37	18	2099	Auriga	5.6	OC	9:10			✓	✓	✓	Auriga Salt-and-Pepper - open cluster
36	19	1960	Auriga	6.0	OC	9:10			✓	✓	✓	Pinwheel Cluster
38	20	1912	Auriga	6.4	OC	9:10			✓	✓	✓	Open Cluster
41	21	2287	Canis Major	4.5	OC	8:40		✓		✓	✓	Little Beehive - 4 deg. Down From Sirius on right.
93	22	2447	Puppis	6.2	OC	9:15		✓	✓	✓	✓	1 1/2 degrees from Asmidiske (nice double with arc of 4 stars) - Line from Orion Nebula through Sirius - another "Butterfly Cluster" ?)

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47	23	2422	Puppis	4.4	OC	9 <sup>00</sup>			✓	✓	✓	Nice Open Cluster TYC5409-4230-1 is pretty double star, with 7.4" separation.
46	24	2437	Puppis	6.1	OC	9 <sup>20</sup>	✓			✓	✓	Cluster - Has Planetary Nebula - only 1.2 deg. from m47
50	25	2323	Monocerus	5.9	OC	9 <sup>25</sup>	✓		✓	✓	✓	Heart Shaped Cluster - Line from Sirius to Gomeisa crossing line between Alpha/Beta Monocerotus
48	26	2548	Hydra	5.8	OC	9 <sup>30</sup>	✓		✓	✓	✓	Line from Gomeisa to Procyon, 4x distance on Sirius side of Zeta Monoc. - 3 deg. Away
44	27	2632	Cancer	3.1	OC	9 <sup>30</sup>			✓	✓	✓	Beehive Cluster. Next to Saturn in 2006
67	28	2682	Cancer	6.9	OC	9 <sup>40</sup>	✓		✓	✓	✓	King Cobra - Haze of faint stars - very pretty. Line from Orion Nebula through Procyon - < 2deg from Acubens
95	29	3351	Leo	9.7	SG	9 <sup>37</sup>	✓			✓	✓	See M105 - then look 2deg or so towards Sirius to see M95 and M96
96	30	3368	Leo	9.2	SG	9 <sup>37</sup>	✓			✓	✓	See above.
105	31	3379	Leo	9.3	EG	9 <sup>35</sup>	✓			✓	✓	Find 52 Leonis 5.5mag on line between Regulus and Chertan, look for Y-shape below - leads to M105/NGC3384 pair
65	32	3623	Leo	9.3	SG	9 <sup>40</sup>	✓	✓	✓	✓	✓	Leo's triplet - nice appearance all in same field of view! From Chertan - pair of stars 1deg away point to "Half of Diamond Ring" with M65/66 inside it
66	33	3627	Leo	9.0	SG	9 <sup>40</sup>	✓	✓	✓	✓	✓	Leo's triplet - see above
81	34	3031	Ursa Major	6.8	SG	9 <sup>40</sup>			✓	✓	✓	Bodes nebula. Line from Phecda a bit below Dubhe on the Mergrez side, about
82	35	3034	Ursa Major	8.4	IG	9 <sup>40</sup>			✓	✓	✓	Cigar Nebula - Cigar shape readily apparent
97	36	3587	Ursa Major	11.2	PN	9 <sup>50</sup>	✓		✓	✓	✓	Owl Nebula - Faint round blob. Start Merak work towards Phecda - M97/108 are on that line, M108 is 20' outside it, M97 is 1deg outside. M108 is 1.5deg from Merak.
108	37	3556	Ursa Major	10.0	SG	9 <sup>50</sup>	✓		✓	✓	✓	In-line with two 8m stars makes it easy to find. Starry Nights lists apparent magnitude as 10.66
109	38	3992	Ursa Major	9.8	SG	9 <sup>55</sup>	✓			✓	✓	Very Close to Phecda -- look for 3 stars in a line in direction of Cor Coroli - M109 is on Cor Coroli side near middle star
40	39		Ursa Major	8.0	dbl	9 <sup>55</sup>	✓			✓	✓	Two separated faint stars - line from Phecda through Megrez to 5.5 mag star (70 Ursae Majoris) - double is just beyond it.
106	40	4258	Canes Venatici	8.3	SG	9 <sup>50</sup>	✓		✓	✓	✓	Faint galaxy - Line from Chara to Phecda - exactly 1/2 way

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94	41	4736	Canes Venatici	8.1	SG	10 <sup>00</sup>	✓		✓	✓	✓	Cat's Eye Galaxy - make triangle with Chara and Cor Coroli - 1°30' from line on Ursa Major side
63	42	5055	Canes Venatici	8.6	SG	10 <sup>04</sup>	✓		✓	✓	✓	Sunflower galaxy -
51	43	5194	Canes Venatici	8.1	SG	10 <sup>04</sup>	✓		✓	✓	✓	Whirlpool galaxy - line from Alkaid to Cor Coroli - above it by 40' - 3°30' from Alkaid
101	44	5457	Ursa Major	7.7	SG	10 <sup>02</sup>	✓			✓	✓	Pinwheel Galaxy - follow line on Mizar->Alcor to arc of 3 stars, follow 2° more to M101..
102	45	5457	Draco	7.7	SG	10 <sup>05</sup>	✓			✓	✓	Spindle Galaxy, Locate Edasich in Draco (form triangle with Mizar and Alkaid. Follow line towards Seginus in Bootes, 3° to arc of 3 stars - follow towards Alkaid 48' - in mouth of upside-down 'Y'.
53	46	5024	Coma Berenice	7.7	GC	10 <sup>23</sup>	✓		✓	✓	✓	Next to notable asterism so easy to find - 1deg. From Diadem
64	47	4826	Coma Berenice	8.5	SG	10 <sup>23</sup>	✓		✓	✓	✓	Black Eye Galaxy - follow line from Diadem to gamma coma Berenices and find 4.8 mag star 48 Comae Berenices - M64 is less than a degree away.
3	48	5272	Canes Venatici	6.4	GC	10 <sup>30</sup>	✓		✓	✓	✓	Outer core resolved - impressive sight
98	49	4192	Coma Berenice	10.1	SG	10 <sup>28</sup>	✓			✓	✓	Look for 5th mag 6 Comae Berenices on line from Regular through Denebola
99	50	4254	Coma Berenice	9.8	SG	10 <sup>28</sup>	✓			✓	✓	Coma Pin Wheel Galaxy
100	51	4321	Coma Berenice	9.4	SG	10 <sup>28</sup>	✓			✓	✓	Look for three 6th/5th mag stars in a line between M98 and M100
85	52	4382	Coma Berenice	9.2	EG	10 <sup>35</sup>	✓			✓	✓	Look for this along with M98/99/100 - all in the same region
84	53	4374	Virgo	9.3	EG	10 <sup>43</sup>	✓				✓	Markarian's chain
86	54	4406	Virgo	9.2	EG	10 <sup>43</sup>	✓			✓	✓	Faint but easy because no stars around
87	55	4486	Virgo	8.6	EG	10 <sup>45</sup>	✓			✓	✓	Virgo A
89	56	4552	Virgo	9.8	EG	10 <sup>40</sup>	✓			✓	✓	Seemed brighter than M58 although supposedly it's dimmer (?)
90	57	4569	Virgo	9.5	SG	10 <sup>40</sup>	✓			✓	✓	Not very easy to find
88	58	4501	Coma Berenice	9.5	SG	10 <sup>35</sup>	✓			✓	✓	Very difficult to find - borderline
91	59	4548	Coma Berenice	10.2	SG	10 <sup>35</sup>	✓			✓	✓	Very difficult to find - borderline
58	60	4579	Virgo	9.8	SG	10 <sup>35</sup>	✓			✓	✓	Very, very faint - barely visible
59	61	4621	Virgo	9.8	EG	10 <sup>17</sup>	✓			✓	✓	Very, very faint - barely visible
60	62	4649	Virgo	8.8	EG	10 <sup>20</sup>	✓			✓	✓	faint - but reasonably visible

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49	63	4472	Virgo	8.4	EG	1020	✓			✓	✓	Very faint, but no stars nearby so reasonably visible
61	64	4303	Virgo	9.7	SG	1040	✓			✓	✓	Swelling Spiral
104	65	4594	Virgo	8.3	SG	1030	✓		✓	✓	✓	Sombrero galaxy - Arc up from Algorab towards Virgo
68	66	4590	Hydra	8.2	GC	325	✓			✓		Below Corvus: Line from Algorab to Kraz, extend 3.5° to HIP61621 then up and to left by 25'.
83	67	5236	Hydra	7.6	SG	320	✓			✓	✓	Southern Pinwheel galaxy - Below Hydra to left of Corvus - 7° to right of Pi Hydrae.
5	68	5904	Serpens Caput	5.8	GC	340			✓	✓	✓	Easy to find, next to 5th mag 5 Serpentis - on line from Tau Virginis to 109
13	69	6205	Hercules	5.9	GC	325	✓		✓	✓	✓	Hercules cluster. 100,000 stars
92	70	6341	Hercules	6.5	GC	325	✓		✓	✓	✓	Not nearly as impressive as M13, but nice
57	71	6720	Lyra	9.0	PN	325	✓		✓	✓	✓	Ring nebula. Looks like smoke ring.
56	72	6779	Lyra	8.2	GC	330	✓			✓	✓	Rather faint, but visible even with first Q moon
29	73	6913	Cygnus	6.6	OC	418	✓		✓	✓	✓	Cooling Tower Cluster: A dozen or so brightish stars at mag 6
39	74	7092	Cygnus	4.6	OC	454			✓	✓		Easily found, not very exciting though
27	75	6853	Vulpecula	8.1	PN	400	✓		✓	✓	✓	Dumbbell nebula
71	76	6838	Sagitta	8.3	GC	410	✓			✓		Just a smudge - seemed fainter than 8.3 but found in 2" binos as well
107	77	6171	Ophiucus	8.1	GC	350	✓		✓	✓	✓	Easy enough to find, but pretty dim
12	78	6218	Ophiucus	6.6	GC	343	✓		✓	✓	✓	Gumball Globular
10	79	6254	Ophiucus	6.6	GC	343	✓		✓	✓	✓	Smaller than M12, easy to find
14	80	6402	Ophiucus	7.6	GC	346	✓		✓	✓	✓	Easily seen
9	81	6333	Ophiucus	7.9	GC	335	✓		✓	✓	✓	Rather Faint, but easy to find from Sabik
4	82	6121	Scorpio	5.9	GC	340	✓		✓	✓	✓	Surprisingly large globular
80	83	6093	Scorpio	7.2	GC	403	✓		✓	✓	✓	Easy to find, quite small, a bit difficult in 2" Binos
19	84	6273	Ophiucus	7.2	GC	42	✓			✓	✓	Stumbled onto this globular - so quite easy to find
62	85	6266	Ophiucus	6.6	GC	402	✓		✓	✓	✓	Flickering Globular
6	86	6405	Scorpio	4.2	OC	432	✓		✓	✓	✓	Butterfly cluster
7	87	6475	Scorpio	3.3	OC	450	✓		✓	✓	✓	Ptolemy's Cluster
11	88	6705	Scutum	5.8	OC	420	✓		✓	✓		Wild duck cluster

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M #	Order	NGC	Con	Mag	Type	Time	39x100	18x50	10x42	C		K
26	89	6694	Scutum	8.0	OC	500	✓			✓	✓	Pretty dim OC - not much to see - also marked as in Sagittarius
16	90	6611	Serpens Claudi	6.0	DN	432	✓		✓	✓	✓	Eagle Nebula - not as impressive as Omega
17	91	6618	Sagittarius	7.0	DN	430	✓		✓	✓	✓	Omega nebula, deep orange star next to it - shape is VERY clear
18	92	6613	Sagittarius	6.9	OC	435	✓		✓	✓	✓	Nice small cluster
24	93	6603	Sagittarius	4.5	OC	437	✓		✓	✓	✓	Sagittarius Star Cloud - Fills entire view - cluster with nebulosity
25	94		Sagittarius	4.6	OC	437			✓	✓	✓	2.5x distance from Delta Aquilae to Althaimain
23	95	6494	Sagittarius	5.5	OC	585	✓		✓	✓	✓	Salt & Pepper type appearance - large
21	96	6531	Sagittarius	5.9	OC	442	✓			✓	✓	Not easy to see as a cluster and separate from Triffid
20	97	6514	Sagittarius	8.5	DN	440	✓		✓	✓	✓	Triffid Nebula - Much less nebulosity than M8 - expected more
8	98	6523	Sagittarius	5.8	DN	440	✓		✓	✓	✓	Lagoon Nebula - A lot of nebulosity -
28	99	6626	Sagittarius	6.9	GC	503	✓		✓	✓	✓	Next to Kaus Borealis so easy to locate from that dimmer than 6.9 would
22	100	6656	Sagittarius	5.1	GC	443	✓			✓	✓	Sagittarius Cluster - Tau Sat to Nunki - 1x that distance - 2 stars on either side
69	101	6637	Sagittarius	7.7	GC	520	✓		✓	✓	✓	Follow line from Atkab to Kaus Australis"
70	102	6681	Sagittarius	8.1	GC	524	✓			✓	✓	Look for the 4 9th mag stars in a tight row just underneath - line from Kaus Australis to Ascella
54	103	6715	Sagittarius	7.7	GC	520	✓		✓	✓	✓	Pretty small and faint globular not easy, 1d 44m from Ascella in direction of a bit above Kaus Australis
55	104	6809	Sagittarius	7.0	GC	600	✓			✓	✓	Line from Nunki to Tau Sag <del>2</del> 3x that distance
75	105	6864	Sagittarius	8.6	GC	612	✓			✓	✓	Tau Ag to 52 Sag, 1x that distance
15	106	7078	Pegasus	6.4	GC	555	✓		✓	✓	✓	Take Zeta Cygni to 1 Pegasi, extend same distance/direction
2	107	7089	Aquarius	6.5	GC	640	✓			✓	✓	in dark field no nearby stars to easy to spot.
72	108	6981	Aquarius	9.4	GC	625	✓			✓	✓	Very faint globular.
73	109	6994	Aquarius		ast	630	✓			✓	✓	Very difficult, very small grouping of just 3 or 4 stars
30	110	7099	Capricornus	7.5	GC							Small, but not difficult to find