

Observed and Imaged Messier List													
Total Number Seen		11											
Total Number Imaged		41											
Messier No.	NGC No.	Type	Common Name	Constellation	Size (arcmin)	Apparent Magnitude	Right Ascension	Declination	Season	Date Seen	Date Imaged	Seen or Imaged	Comment
2	7089	GC		Aquarius	12.9	6.3	21h 33m 27.02s	-00° 49' 23.7"	Autumn		18/11/19	TRUE	ISO1600 30 seconds. Dim globular
13	6205	GC	Great Globular Cluster in Hercules	Hercules	16.6	5.8	16h 41m 41.24s	+36° 27' 35.5"	Summer	Numerous	10/05/19	TRUE	A favourite object from 2016/17 when I had a 10" dob
15	7078	GC		Pegasus	12.3	6.2	21h 29m 58.33s	+12° 10' 01.2"	Autumn		18/11/19	TRUE	ISO3200 40 seconds. Nice bright core.
27	6853	PN	Dumbbell Nebula	Vulpecula	8.0x5.7	7.5	19h 59m 36.340s	+22° 43' 16.09"	Summer	22/08/19	22/08/19	TRUE	First TSS monthly competition entry attempt
30	7099	GC		Capricornus	11	7.7	21h 40m 22.12	-23° 10' 47.5"	Autumn		18/11/19	TRUE	ISO1600 30 seconds. Down low in Capricorn, lost in the light pollution of Chatham and Rochester. Can still see some jellyfish tentacles though!
31	224	Gxy	Andromeda Galaxy	Andromeda	178x63	3.4	00h 42m 44.3s	+41° 16' 9"	Autumn	Numerous	12/10/20	TRUE	Single shot ISO3200 40 seconds 12/01/20 Think I need to have another try at this one!
32	221	Gxy	Andromeda satellite galaxy	Andromeda	8x6	8.1	00h 42m 41.8s	+40° 51' 55"	Autumn		12/01/20	TRUE	Single shot ISO3200 40 seconds 12/01/20 M31 peering in from the side.
33	598	Gxy	Triangulum Galaxy	Triangulum	73x45	5.7	01h 33m 50.02s	+30° 39' 36.7"	Autumn	14/10/19	14/10/19	TRUE	Excellent processing skills lessons learnt
34	1039	OC		Perseus	35	5.5	02h 42.1m	+42° 46'	Autumn		18/11/19	TRUE	ISO3200 40 seconds. Open cluster in Perseus.
35	2168	OC		Gemini	28	5.3	06h 09.1m	+24° 21'	Winter		17/01/20	TRUE	Single shot ISO3200 20seconds 17/01/20 M67 is an open cluster in the constellation of Gemini.
36	1960	OC		Auriga	12	6.3	05h 36m 12s	+34° 08' 4"	Winter		12/01/20	TRUE	Single shot ISO1600 30 seconds Open cluster
37	2099	OC		Auriga	24	6.2	05h 52m 18s	+32° 33' 02"	Winter		12/01/20	TRUE	Single shot ISO3200 10 seconds Open cluster
38	1912	OC		Auriga	21	7.4	05h 28m 42s	+35° 51' 18"	Winter		12/01/20	TRUE	Single shot ISO3200 10 seconds Open cluster
41	2287	OC		Canis Major	38	4.5	06h 46.0m	-20° 46'	Winter		12/03/20	TRUE	A nice open cluster, hoping to catch the reds and blues but I'm not holding my breath.
42	1976	BN	Orion Nebula	Orion	85x60	4	05h 35m 17.3	-05° 23' 28"	Winter	Numerous	17/01/20	TRUE	M42 - Orion Nebular Trapezium 10 x Fits, no darks or lights because I lost the usb connection to the mount
43	1982	BN	De Mairan's Nebula	Orion	20x15	9	05h 35.6m	-05° 16'	Winter		17/01/20	TRUE	Single shot ISO3200 20seconds. M43, part of the most famous Orion Nebula. My plate solving seems to need looking at!
44	2632	OC	Beehive Cluster	Cancer	95	3.7	08h 40.4m	+19° 59'	Spring	Numerous	17/01/20	TRUE	Excellent binocular object Single shot ISO3200 20seconds M44, aka the Beehive Cluster aka Praesepe is an open cluster in the constellation of Cancer. It needs a wider view to fully appreciate it.
45		OC	Pleiades	Taurus	110	1.6	03h 47m 24s	+24° 07' 00"	Winter	Numerous	12/03/20	TRUE	Imaged using my guide scope.
46	2437	OC		Puppis	27	6.1	07h 41.8m	-14° 49'	Winter		12/03/20	TRUE	A denser open cluster with the added bonus of planetary nebular NGC 2438 in the middle!
47	2422	OC		Puppis	30	4.2	07h 36.6m	-14° 30'	Winter		24/03/20	TRUE	M47 is a bit too large and spread out for the 600D FOV
48	2548	OC		Hydra	54	5.5	08h 13.7m	-05° 45'	Winter		12/03/20	TRUE	A larger open cluster that filled the frame more than the above targets.
50	2323	OC		Monoceros	16	5.9	07h 03.2m	-08° 20'	Winter		12/01/20	TRUE	Single shot ISO6400 20 seconds Open cluster

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51	5194	Gxy	Whirlpool Galaxy	Canes Venatici	11x7	8.4	13h 29m 52.7s	+47° 11' 43"	Spring	Summer 2019	Summer 2019	TRUE	Failed imaging attempt. Probably shouldn't count this one! I'll try again in a couple of months.
52	7654	OC		Cassiopeia	13	5	23h 24.2m	+61° 35'	Autumn		18/11/19	TRUE	Single shot ISO3200 40 seconds Open cluster
53	5024	GC		Coma Berenices	12	8.3	13h 12m 55.25s	+18° 10' 05.4"	Spring		16/03/20	TRUE	Small Globular Cluster
57	6720	PN	Ring Nebula	Lyra	1.4x1.0	8.8	18h 53m 35.079s	+33° 01' 45.03"	Summer	Numerous	08/01/19	TRUE	Early imaging attempt
63	5055	Gxy	Sunflower Galaxy	Canes Venatici	10	9.3	13h 15m 49.3s	+42° 01' 45"	Spring		24/03/20	TRUE	Bright core, visible outer core and some fuzzy faintness in an elliptical surround. Still too noisy 300 seconds at 3200iso. Going to have to try longer exposures at lower iso for these spring galaxies.
65	3623	Gxy	Leo Triplet	Leo	8	10.3	11h 18m 55.9s	+13° 05' 32"	Spring		24/03/20	TRUE	Another faint fuzzy at 300 seconds but a nice bright core and a hint of spiral arms.
66	3627	Gxy	Leo Triplet	Leo	8	8.9	11h 20m 15.0s	+12° 59' 30"	Spring		24/03/20	TRUE	All looking good with some faint spiral arms visible but then I lost the guiding half way into the first capture.
67	2682	OC		Cancer	30	6.1	08h 51.3m	+11° 49'	Spring		17/01/20	TRUE	Single shot ISO3200 20seconds 17/01/20 M67 is an open cluster in the constellation of Cancer.
72	6981	GC		Aquarius	5.9	9.4	20h 53m 27.70s	-12° 32' 14.3"	Autumn		18/11/19	TRUE	ISO3200 30 seconds. At 7.5 degrees altitude, a very poor definition globular cluster.
76	650	PN	Little Dumbbell Nebula	Perseus	2.7x1.8	10.1	01h 42.4m	+51° 34' 31"	Autumn		18/11/19	TRUE	ISO3200 30 seconds. Little Dumbbell nebula. Would make a nice target for the Altair 290C.
78	2068	BN	Casper the Friendly Ghost Nebula	Orion	8x6	8.3	05h 46m 46.7s	+00° 00' 50"	Winter	30/12/19	30/12/19	TRUE	Visually looks like a double star system. My image won't win the December AP competition! But it was fun to capture. ISO3200 45 seconds. Captured 100, used 29!
81	3031	Gxy	Bode's Galaxy	Ursa Major	21	6.9	09h 55m 33.2s	+69° 3' 55"	Spring		16/03/20	TRUE	Bright Core Galaxy
82	3034	Gxy	Cigar Galaxy	Ursa Major	9	8.4	09h 55m 52.2s	+69° 40' 47"	Spring		16/03/20	TRUE	Small edge on Galaxy
97	3587	PN	Owl Nebula	Ursa Major	4	9.9	11h 14m 47.734s	+55° 01' 08.50"	Spring		24/03/20	TRUE	Well pleased to see a faint smudge on the screen as soon as the telescope stopped moving. I used the APT aim function to center the target and set the guiding going. Just captured a couple of 500 second images. The Owl face has a lovely hue, definitely coming back to this one another night.
101	5457	Gxy	Pinwheel Galaxy	Ursa Major	22	7.9	14h 03m 12.6s	+54° 20' 57"	Spring		16/03/20	TRUE	Barely visible as a single image. Detail visible once processed
103	581	OC		Cassiopeia	6	7.4	01h 33.2m	+60° 42'	Autumn		18/11/19	TRUE	ISO6400 30 seconds. Nice open cluster. Got to stop using ISO6400!
106	4258	Gxy		Canes Venatici	19	9.1	12h 18m 57.5s	+47° 18' 14"	Spring		16/03/20	TRUE	Very faint galaxy
109	3992	Gxy		Ursa Major	7	10.6	11h 57m 36.0s	+53° 22' 28"	Spring		24/03/20	TRUE	Some nice spiral structure visible
110	205	Gxy	Andromeda satellite galaxy	Andromeda	17x10	9			Autumn		12/01/20	TRUE	Single shot ISO6400 40 seconds 12/01/20 Very faint satellite galaxy, I need to try this one again!