

# Observations by Messier Objects

<b>NGC 1952 Tau</b>	<b>M1</b>		<b>Nebula E</b>	<b>VB,VL,E135,VGLBM,R</b>	<b>M 1 Crab Nebula Supernova Rem</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009	12"	20mmUW			
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Oct 29 2006	1.9"	12x50	F,PS,R,R=F		
Mar 26 2006	8"	19mmW	DIFF,F,L,R=F		
Mar 19 2006	8"	19mmW	B,L,R=G		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		
<b>NGC 7089 Aqr</b>	<b>M2</b>		<b>Globular</b>	<b>GCL,B,VL,GPMBM,RRR</b>	<b>M 2</b>
Oct 05 2016	12"	11mmT6	B,L,R=G		
Sep 02 2016	12"	8mm Et	VERY NICE. SQM-19.67		
Aug 15 2015	12"	8mm Ds	DITTO		
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2008	16"	32mmUW	SAME,DIMMER, CAN'T RESOLVE INDIVIDUAL STARS		
Oct 21 2006	31"	20mmUW	VB,FL,STELLAR, RESOLVABLE		
Mar 27 2006	8"	19mmW	B,S,R=G, TIGHT GROUP		
Oct 31 2004	1.9"	12x50	R=F		
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 5272 CVn</b>	<b>M3</b>		<b>Globular</b>	<b>GCL,EB,VL,VSMBM,*11.</b>	<b>M 3</b>
May 14 2017	12"	17mmT4	NICE OBJECT. FIRST GLOBULAR OF THE SEASON		
Aug 07 2016	12"	8mm Et	BRIGHT,SMALL,R=G		
May 30 2016	12"	8mm Et	B,L,R=G. VERY NICE		
May 23 2015	12"	8mm Ds	GOOD SHOW		
Sep 19 2014	12"	17mmAT	B,L,R=F, HOME - 8-14-14		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Jul 21 2007	1.9"	12x50	PB,S,R=G, SAME FOV AS C/2006-VZ13		
Mar 10 2007	1.9"	12x50	F,PS,R=F		
Mar 26 2006	8"	19mmW	PB,PL,R,HSB,R=G		
Apr 04 2005	8"	11mmT6	LARGE, BRIGHT & ROUND!!!		
Aug 14 2004	8"	11mmT6	LARGER THAN I THOUGHT		
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS		

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<b>NGC 6121 Sco</b>	<b>M4</b>		<b>Globular</b>	<b>CL,80R10B*LINE,RRR</b>	<b>M 4</b>
Jul 02 2017	12"	17mmT4	WASHED OUT.	MOON NINE DAYS OLD.	
Aug 07 2016	12"	8mm Et	BRIGHT,	LARGE,R=E	
May 30 2016	12"	8mm Ds	F,L,R=G		
Jul 15 2015	12"	8mm Ds	EYE CANDY TO START		
May 23 2015	12"	11mmT6	EYE CANDY		
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING,	HOME - 8/15/14	
Jul 13 2013	18"	7mm TV	MORE EYE CANDY		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Jul 04 2011	12"	17mmT4	GOOD LOOKING		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Aug 12 2006	1.9"	12x50	PF,VL,R,R=G		
Mar 27 2006	8"	19mmW	B,L,R=G,LOOSELY PACKED		
Aug 14 2004	8"	11mmT6			
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL		
<b>NGC 5904 Ser</b>	<b>M5</b>		<b>Globular</b>	<b>GCL,VB,L,ECM,*11..15</b>	<b>M 5</b>
Jul 02 2017	12"	17mmT4	CAN RESOLVE SOME STARS.		
May 30 2016	12"	8mm Ds	1ST OBJECT TONIGHT		
May 23 2015	12"	11mmT6			
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006	1.9"	12x50	B,S,R=G		
Mar 27 2006	8"	19mmW	B,L,R=G,DENSE, RESOLVE OUTER STARS		
May 04 2005	8"	11mmT6	VB,VL,R=E!!		
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
<b>NGC 6405 Sco</b>	<b>M6</b>		<b>Open Cluster 5.5 II 3 r CL,L,IR,LC,ST7,10...</b>	<b>M 6 Butterfly Cluster Cr 341</b>	
Jul 05 2016	12"	17mmAT	VERY NICE O.C. LP2 FILTER SHOWS SOME RELATED NEBULOSITY		
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING,	HOME - 8/15/14	
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006	1.9"	12x50	VB,VL,R=G		
Mar 27 2006	8"	19mmW	F,S,R=F		
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR		

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<b>NGC 6475 Sco M7</b>		<b>Open Cluster 7.0 I 3 r CL,VB,PRI,LC,*7...12</b>	<b>M 7 Cr 354</b>
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 16 2006	1.9"	12x50	VB,EL,R=E
Mar 27 2006	8"	19mmW	B,L,R=F
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR
<b>NGC 6523 Sgr M8</b>		<b>Nebula E VB,EL,EIF,W/LCL</b>	<b>M 8 Lagoon Nebula IC 1271 LBN</b>
Jul 05 2016	12"	17mmAT	VERY NICE,R=E!,LP2 FILTER
Aug 21 2015	12"	17mmT4	
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 12 2006	1.9"	12x50	VB,VL,EXTENDED,R=E
Mar 27 2006	8"	19mmW	B,PL,R=G,MORE STARS
Aug 14 2004	8"	11mmT6	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL
<b>NGC 6333 Oph M9</b>		<b>Globular GCL,B,L,R,ECM,RRR,</b>	<b>M 9</b>
Jul 01 2016	12"	7mm TV	F,S,R=G,RESOLVED OUTER STARS
Jul 15 2015	12"	17mmT4	
Mar 16 2012	18"	17mmAT	2012 M.M.
Jul 04 2011	12"	11mmT6	FINE OBJECT
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 16 2006	1.9"	12x50	PF,PS,R=F
Mar 27 2006	8"	19mmW	F,VL,R,R=F,
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL
<b>NGC 6254 Oph M10</b>		<b>Globular GCL,B,VL,R,GVMBM,RRR</b>	<b>M 10</b>
Jul 02 2017	12"	17mmT4	NOT TOO BAD.
Aug 21 2015	12"	17mmT4	
Jul 15 2015	12"	17mmT4	
May 23 2012	18"	17mmAT	GLOBULAR CLUSTER EYE CANDY
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 12 2006	1.9"	12x50	PF,S,R,R=F
Jul 16 2006	8"	19mmW	PB,PL,R=G, OUTER STARS RESOLVED.
Mar 27 2006	8"	19mmW	B,L,R=G,LOOSELY PACKED
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL

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NGC	Object	M	Type	Filters	Notes	M
<b>NGC 6705 Sct</b>	<b>M11</b>		<b>Open Cluster 11.0</b>	<b>1 2 rCL,VB,L,IR,RI,*9,</b>		<b>M 11 Wild Duck Cluster Cr 391</b>
Jul 19 2017	12"	17mmT4	VERY NICE.	FULL OF STARS.	R=G	
Jul 15 2015	12"	17mmT4				
Mar 16 2012	18"	17mmAT	2012 M.M.			
Mar 01 2011	12"	17mmAT	M.M. 2011 -	MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010	MANUAL SETTING CIRCLES		
Aug 12 2006	1.9"	12x50	B,L,R=G			
Mar 27 2006	8"	19mmW	B,L,R=G			
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS -	MEGASTAR CONTROL		
<b>NGC 6218 Oph</b>	<b>M12</b>		<b>Globular</b>	<b>GCL,VB,VL,IR,GMBM</b>		<b>M 12</b>
Jul 02 2017	12"	17mmT4	NOT AS BRIGHT AS	M 10.		
Jul 15 2015	12"	17mmT4				
May 23 2012	18"	17mmAT	GLOBULAR CLUSTER	EYE CANDY		
Mar 16 2012	18"	17mmAT	2012 M.M.			
Mar 01 2011	12"	17mmAT	M.M. 2011 -	MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010	MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON -	2009		
Aug 12 2006	1.9"	12x50	PF,S,R,R=F			
Mar 27 2006	8"	19mmW	B,L,R=G,LOOSELY	PACKED		
May 04 2005	8"	11mmT6	MB,ML,R=E			
May 16 2004	10"	28mm	CLEAR -	MEGASTAR CONTROL		
<b>NGC 6205 Her</b>	<b>M13</b>		<b>Globular</b>	<b>GCL,EB,VRI,VGECM,*11</b>		<b>M 13 Great Cluster in Hercules</b>
Jul 02 2017	12"	17mmT4	LOOKED PRETTY	GOOD		
May 14 2017	12"	11mmT6	GREAT			
May 30 2016	12"	8mm Ds	B,L,R=E.	OUTSTANDING		
May 30 2016	12"	8mm Et	ALWAYS GREAT			
Aug 21 2015	12"	17mmT4				
Jul 15 2015	12"	17mmT4				
Oct 24 2012	8"	11mmT6	VERY NICE -	EVEN IN 8"		
Mar 16 2012	18"	17mmAT	2012 M.M.			
Mar 01 2011	12"	17mmAT	M.M. 2011 -	MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010	MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON -	2009		
Sep 07 2006	1.9"	12x50	DIFF,MB,L,R=G			
Mar 27 2006	8"	19mmW	B,L,R,R=G,DENSE,	RESOLVE OUTER STARS		
Apr 08 2005	8"	11mmT6	VB,VL,ROUND,R=E!!!			
Oct 31 2004	1.9"	12x50	BEST GLOBULAR	YET, R=VG		
Aug 14 2004	8"	11mmT6	CAN SEPARATE	THE FRONT STARS		
Jun 19 2004	31"	17mmT4	***** AWESOME	*****		
May 22 2004	8"	25mmPL	DECENT NIGHT -	MEGASTAR CONTROL		
Mar 19 2004	8"	25mmPL	2004 MESSIER	MARATHON - ARGO NAVIS		
Nov 08 2003	8"	25mmPL	FIRST OBJECT @	WARREN RUPP OBSV.		

## Observations by Messier Objects

<b>NGC 6402 Oph M14</b>	<b>Globular</b>	<b>GCL,B,VL,R,ERI,VGMBM</b>	<b>M 14</b>
Jul 15 2015	12" 17mmT4		
Mar 16 2012	18" 17mmAT	2012 M.M.	
Mar 01 2011	12" 17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12" 11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16" 26mm	MESSIER MARATHON - 2009	
Aug 16 2006	1.9" 12x50	PF,PS,RF,BRIGHTER THAN 6366	
Mar 27 2006	8" 19mmW	F,L,R=F,TIGHT SMUDGE	
Jun 14 2004	8" 25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	

<b>NGC 7078 Peg M15</b>	<b>Globular</b>	<b>GCL,VB,VL,IR,VSMBM</b>	<b>M 15</b>
Sep 02 2016	12" 17mmT4	NICE. 1ST OBJECT FOR THE NIGHT	
Aug 07 2016	12" 8mm Et	FAINT,SMALL,R=E. FIRST OBJECT IN PEGASUS THIS YEAR.	
Aug 21 2015	12" 17mmT4		
Aug 15 2015	12" 11mmT6		
Jul 15 2015	12" 17mmT4		
Sep 19 2014	12" 17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jul 13 2013	18" 7mm TV	MORE EYE CANDY	
Mar 16 2012	18" 17mmAT	2012 M.M.	
Aug 31 2010	12" 17mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12" 26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Sep 13 2009	12" 32mmUW	5TH OBJECT	
Oct 29 2008	16" 32mmUW	NICE, BRIGHT, CAN'T RESOLVE INDIVIDUAL STARS	
Oct 21 2006	31" 20mmUW	VB,VL,STELLAR,RESOLVABLE, F.L. 2, 20MM	
Aug 20 2006	1.9" 12x50	B,S,R=F	
Mar 27 2006	8" 19mmW	B,S,R=G, TIGHT GROUP	
Oct 31 2004	1.9" 12x50	R=G	
Jul 16 2004	8" 25mmPL	CLEAR - SEEING NOT TOO BAD	
Dec 28 2003	8" 25mmPL	Q/M COLD	

<b>NGC 6611 Ser M16</b>	<b>Open Cluster 11.0 II 3 iCL,ATLEAST100* L\$\$</b>	<b>M 16 Eagle Nebula Cr 375</b>
Jul 19 2017	12" 17mmT4	LP2 FILTER HELPS A BIT
Jul 23 2016	12" 8mm Et	USED LP2 & LP3. BETTER VIEW WITH LP3 (OIII).
Aug 21 2015	12" 17mmT4	
Jul 15 2015	12" 17mmT4	
Mar 16 2012	18" 17mmAT	2012 M.M.
Mar 01 2011	12" 17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12" 26mm	M.M. 2010 MANUAL SETTING CIRCLES
Sep 13 2009	12" 32mmUW	6TH OBJECT
Mar 20 2009	16" 26mm	MESSIER MARATHON - 2009
Aug 16 2006	1.9" 12x50	PB,PL,R=G
Mar 27 2006	8" 19mmW	L,B,R=G
Jun 14 2004	8" 25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL

## Observations by Messier Objects

NGC 6618 Sgr	M17		Nebula EN+OC	B,EL,EIF,2HOOKED	M 17 Omega Nebula SH2-45 LBN
Jul 19 2017	12"	17mmT4	BETTER WITH 27 PANOPTIC		
Jul 19 2017	12"	27m PN	BEAUTIFUL WITH LP2 FILTER		
Aug 21 2015	12"	17mmT4			
Jul 13 2013	18"	7mm TV	THE SWAN - OIII FILTER		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Sep 13 2009	12"	32mmUW	7TH OBJECT		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006	1.9"	12x50	PB,PL,R=F		
Mar 27 2006	8"	19mmW	L,B,R=G		
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
<b>NGC 6613 Sgr</b>	<b>M18</b>		<b>Open Cluster 8.7 II 3 pCL,P,VLC</b>		<b>M 18 Cr 376</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Aug 16 2006	1.9"	12x50	B,L,R=F		
Mar 27 2006	8"	19mmW	R=F		
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
<b>NGC 6273 Oph</b>	<b>M19</b>		<b>Globular</b>	<b>GCL,VB,L,R,VCM,RRR</b>	<b>M 19</b>
Jul 02 2017	12"	17mmT4	SMUDGE. CANNOT RESOLVE ANY STARS		
May 30 2016	12"	8mm Ds	F,S,R=F. LOW ON HORIZON		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006	1.9"	12x50	F,S,R=F		
Mar 27 2006	8"	19mmW	B,S,R=G, TIGHT GROUP		
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL		
<b>NGC 6514 Sgr</b>	<b>M20</b>	<b>H41-4</b>	<b>Nebula EN+OC</b>	<b>VB,VL,TRIFID,D*INV</b>	<b>M 20 Trifid Nebula LBN 27</b>
Jul 19 2017	12"	17mmT4	LP2 FILTER HELPS A BIT.		
Jul 19 2017	12"	27m PN	LOOKS MUCH BETTER WITH 27MM PANOPTIC.		
Jul 05 2016	12"	17mmAT	BEAUTIFUL,R=E!!, LP2 FILTER		
Aug 15 2015	12"	11mmT6			
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 12 2006	1.9"	12x50	VB,VL,R=E		
Mar 27 2006	8"	19mmW	B,L,FEW STARS,NEBULASITY OK,R=G		
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		

## Observations by Messier Objects

<b>NGC 6531 Sgr</b>	<b>M21</b>		<b>Open Cluster 8.0 I 3 r CL,PRI,LC,ST9...12</b>	<b>M 21 Cr 363</b>
Jul 05 2016	12"	17mmAT	NICE OPEN CLUSTER,R=G	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 12 2006	1.9"	12x50	B,S,R=F	
Mar 27 2006	8"	19mmW	B,S,R=G	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
<b>NGC 6656 Sgr</b>	<b>M22</b>		<b>Globular GCL,VB,VL,R,VRI,VMC</b>	<b>M 22</b>
Jul 05 2016	12"	8mm Et	F,L,R=E!	
Jul 01 2016	12"	8mm Et	PB,PL,R=E!!	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Jul 04 2011	12"	11mmT6	FINE OBJECT	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 12 2006	1.9"	12x50	PB,PL,R,R=F	
Mar 27 2006	8"	19mmW	B,PL,R=G, RESOLVE OUTER STARS	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
<b>NGC 6494 Sgr</b>	<b>M23</b>		<b>Open Cluster 10.0 II 2 CL,B,VL,PRI,LC,*10..</b>	<b>M 23 Cr 356</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006	1.9"	12x50	B,PL,R=G, RESOLVE OUTER STARS	
Aug 12 2006	1.9"	12x50	B,L,R=G	
Mar 27 2006	8"	19mmW	L,R=F	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
<b>NGC 6603 Sgr</b>	<b>M24</b>		<b>Open Cluster 14.0 I 2 CL,VRI,VMC,R,M WAY</b>	<b>M 24</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 16 2006	1.9"	12x50	B,PL,R=G	
Mar 27 2006	8"	19mmW	R=F	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
<b>IC 4725 Sgr</b>	<b>M25</b>		<b>Open Cluster 8.0 I 3 m</b>	<b>M 25 Cr 382</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 12 2006	1.9"	12x50	B,L,R=G	
Mar 27 2006	8"	19mmW	S,R=F	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	

## Observations by Messier Objects

<b>NGC 6694 Sct</b>	<b>M26</b>	<b>Open Cluster 11.0 II 3 CL,CL,PRI,PC,ST12.15</b>	<b>M 26 Cr 389</b>
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Aug 16 2006	1.9"	12x50	PB,L,R=G
Mar 27 2006	8"	19mmW	F,S,R=F
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL
<b>NGC 6853 Vul</b>	<b>M27</b>	<b>Planetary Neb 3+2 VB,VL,BIN,IE,DUMBDEL</b>	<b>M 27 Dumbbell Nebula Henize 2-</b>
Sep 02 2016	12"	8mm Et	VERY NICE WITH/WITHOUT OIII.
Aug 07 2016	12"	8mm Et	BRIGHT,LARGE,R=E. OUTSTANDING EVEN WITHOUT LP3.
Aug 21 2015	12"	8mm Ds	LP2 FILTER
Oct 21 2012	8"	11mmT6	B,L,R=G,SURPRISE UNDER THE STREETLIGHTS
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Sep 13 2009	12"	32mmUW	1ST OBJECT WITH 12" SKYWATCHER & MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Sep 01 2008	31"	17mmT4	VB,CL,R=E. NO CENTRAL STAR
Aug 12 2006	1.9"	12x50	F,S,R,R=F
Mar 27 2006	8"	19mmW	B,L,R=G, LONG
Aug 14 2004	8"	11mmT6	
Dec 26 2003	8"	25mmPL	Q/M COLD
<b>NGC 6626 Sgr</b>	<b>M28</b>	<b>Globular GCL,VB,L,R,GEEM,RRR</b>	<b>M 28</b>
Jul 05 2016	12"	8mm Et	F,S,R=G
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 16 2006	1.9"	12x50	B,S,R=F
Mar 27 2006	8"	19mmW	F,FS,R,R=G, TIGHT GROUP
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL
<b>NGC 6913 Cyg</b>	<b>M29</b>	<b>Open Cluster 9.0 II 3 mCL,P,LC,STL\$\$</b>	<b>M 29 Cr 422</b>
Jul 19 2017	12"	17mmT4	VERY NICE. R=G
Jul 01 2016	12"	35mm A	B,L,R=G
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 16 2006	1.9"	12x50	B,S,R=F
Mar 27 2006	8"	19mmW	S,LOOSE,R=F
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR



## Observations by Messier Objects

<b>NGC 7099 Cap M30</b>		<b>Globular</b>	<b>GCL,B,L,LE,GPMBM</b>	<b>M 30</b>
Aug 16 2006	1.9"	12x50	PF,S,R=F	
Aug 12 2005	8"	7.5mmW	B,L,R=G, RESOLVE OUTER STARS	
Jun 19 2004	8"	25mmPL	*** LAST MESSIER OBJECT ***	
<b>NGC 224 And M31</b>		<b>Galaxy SA(s)b</b>	<b>EEB,EL,VME,ANDROMEDA 17</b>	<b>M 31 Great Nebula in Andromeda</b>
Sep 02 2016	12"	35mm A	BEAUTIFUL	
Dec 05 2015	12"	17mmT4		
Sep 10 2015	36"	17mmT4	ALWAYS A TREAT	
Aug 21 2015	12"	35mm A	ANDROMEDA	
Oct 26 2014	12"	22mmAT	EYE CANDY	
Jul 13 2013	18"	35mm A	MORE EYE CANDY	
Oct 21 2012	8"	25mmPL	ALWAYS GREAT	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 31 2010	12"	22mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUW		
Sep 13 2009	12"	32mmUW	4TH OBJECT	
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Oct 29 2008	16"	20mmUW	SMALL,BRIGHT,R=E	
Oct 09 2007	8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E	
Oct 29 2006	8"	19mmW	VB,VL,OVAL,MBNUC,VHISB,R=E	
Aug 20 2006	1.9"	12x50	VB,VL,OVAL,BNUC,HISB,R=E!!	
Mar 19 2006	8"	25mmPL	VB,VL,OVAL,BNUC,VHISB,R=E	
Oct 27 2004	1.9"	12x50	FIRST MESSIER IN BINOCULARS - VERY NICE	
Oct 27 2004	31"	31mmT5	VB,EL,EL,OVAL,HISB,R=E, LUNAR ECLIPSE	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	
<b>NGC 221 And M32</b>		<b>Galaxy cE2</b>	<b>VVB,L,R,PSMBMN</b>	<b>M 32 8ZW2 PGC 2555</b>
Sep 02 2016	12"	35mm A	SUPER	
Dec 05 2015	12"	17mmT4		
Aug 21 2015	12"	35mm A		
Oct 26 2014	12"	22mmAT	EYE CANDY	
Jul 13 2013	18"	35mm A	MORE EYE CANDY	
Oct 21 2012	8"	11mmT6	PB,LOOKED PRETTY GOOD	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUW		
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Oct 29 2008	16"	20mmUW	LARGE,BRIGHT,R=E	
Oct 29 2006	8"	19mmW	F,VS,OVAL,UB,NND,R=G	
Aug 20 2006	1.9"	12x50	B,S,OVAL,NND,R=F	
Mar 19 2006	8"	25mmPL	B,S,OVAL,OVAL,R,ND,R=F	
Oct 27 2004	31"	31mmT5	VB,ML,EL,HISB,R=E, LUNAR ECLIPSE	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	

## Observations by Messier Objects

<b>NGC 598</b>	<b>Tri</b>	<b>M33</b>	<b>H17-5</b>	<b>Galaxy SA(s)cd</b>	<b>EB,EL,R,VGBMN</b>	<b>6</b>	<b>M 33 Triangulum Galaxy UGC 63</b>
Aug 21 2015		12"	35mm A				
Oct 26 2014		12"	22mmAT	EYE CANDY			
Oct 21 2012		8"	25mmPL	LARGE AND FAINT AS ALWAYS			
Mar 16 2012		18"	17mmAT	2012 M.M.			
Mar 01 2011		12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES			
Mar 08 2010		12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES			
Mar 20 2009		1.9"	12x50	MESSIER MARATHON - 2009			
Oct 29 2008		16"	20mmUW	LARGE, DIFFUSE PATCH			
Mar 17 2007		8"	25mmPL	M.M. BETWEEN CLOUDS			
Mar 19 2006		8"	19mmW	DIFF,L,F,OVAL,NND,R=F			
Oct 31 2004		1.9"	12x50	VB,ML,EON,LSB,R=G			
Oct 27 2004		31"	31mmT5	VB,ML,OVAL,HISB,R=E, LUNAR ECLIPSE			
Mar 19 2004		8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
Dec 26 2003		8"	25mmPL	Q/M COLD			

<b>NGC 1039</b>	<b>Per</b>	<b>M34</b>		<b>Open Cluster 9.0 II 3 r CL,B,VL,LC,SC ST9</b>		<b>M 34 Cr 31</b>
Mar 16 2012		18"	17mmAT	2012 M.M.		
Mar 01 2011		12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010		12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009		16"	26mm	MESSIER MARATHON - 2009		
Oct 29 2006		1.9"	12x50	B,L,R,R=G		
Mar 19 2006		8"	25mmPL	PB,PL,R=G. SCATTERED STARS		
Mar 19 2004		8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003		8"	25mmPL	Q/M COLD		

<b>NGC 2168</b>	<b>Gem</b>	<b>M35</b>		<b>Open Cluster 8.0 III 3 rCL,VL,CRI,PC,ST9..16</b>		<b>M 35 Mel 41</b>
Mar 16 2012		18"	17mmAT	2012 M.M.		
Mar 01 2011		12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010		12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009		12"	20mmUW			
Mar 20 2009		16"	26mm	MESSIER MARATHON - 2009		
Dec 28 2006		1.9"	12x50	B,L,RESOLVE OUTER STARS,R=G		
Oct 02 2006		1.9"	12x50	VB,VL,R=E. VERY NICE CLUSTER.		
Mar 19 2006		8"	19mmW	PB,PL,R=G. LOTS OF STARS		
Apr 05 2004		8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004		8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003		8"	25mmPL	Q/M COLD		

## Observations by Messier Objects

<b>NGC 1960 Aur</b>	<b>M36</b>	<b>Open Cluster 9.0 I 3 r CL,B,VL,VRI,CL,*9.11</b>	<b>M 36 Cr 71</b>
Mar 16 2012	18"	17mmAT 2012 M.M.	
Mar 01 2011	12"	17mmAT M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUW	
Mar 20 2009	16"	26mm MESSIER MARATHON - 2009	
Mar 17 2007	1.9"	12x50 M.M. BETWEEN CLOUDS	
Oct 29 2006	8"	19mmW PB,PL,R,R=G	
Oct 02 2006	1.9"	12x50 PB,S, R=G, SMALLEST OF THREE	
Mar 19 2006	8"	25mmPL B,ML,R=G. BETTER	
Mar 19 2004	8"	25mmPL 2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL Q/M COLD	
<b>NGC 2099 Aur</b>	<b>M37</b>	<b>Open Cluster 11.0 I 2 rCL,RI,PCM,ST L\$\$</b>	<b>M 37 Cr 75</b>
Mar 16 2012	18"	17mmAT 2012 M.M.	
Mar 01 2011	12"	17mmAT M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUW	
Mar 20 2009	16"	26mm MESSIER MARATHON - 2009	
Mar 17 2007	1.9"	12x50 M.M. BETWEEN CLOUDS	
Oct 29 2006	8"	19mmW CB,CL,R,R=G	
Oct 02 2006	1.9"	12x50 PB,L,R=G, LARGEST OF THREE	
Mar 19 2006	8"	25mmPL B,ML,R=E. TIGHTER GROUP. BEST OF 3	
Apr 05 2004	8"	25mmPL FULLMOON - **MEGASTAR CONTROL**	
Mar 19 2004	8"	25mmPL 2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004	8"	25mmPL COMPTER = ARGO NAVIS	
Dec 26 2003	8"	25mmPL Q/M COLD	
<b>NGC 1912 Aur</b>	<b>M38</b>	<b>Open Cluster 8.0 II 2 r CL,B,VL,VRI,IF,STL\$\$</b>	<b>M 38 Cr 67</b>
Mar 16 2012	18"	17mmAT 2012 M.M.	
Mar 01 2011	12"	17mmAT M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUW	
Mar 20 2009	16"	26mm MESSIER MARATHON - 2009	
Mar 17 2007	1.9"	12x50 M.M. BETWEEN CLOUDS	
Oct 29 2006	8"	19mmW B,PL,R,R=G	
Oct 02 2006	1.9"	12x50 PB,S, R=G	
Mar 19 2006	8"	25mmPL B,L,R=G	
Mar 19 2004	8"	25mmPL 2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL Q/M COLD	

# Observations by Messier Objects

<b>NGC 7092 Cyg</b>	<b>M39</b>		<b>Open Cluster 7.0 III 2 CL,VL,VP,VLC,*7...10</b>	<b>M 39 Cr 438</b>
Jul 19 2017	12"	17mmT4	LARGER THAN M29	
Jul 01 2016	12"	35mm A	B,S,R=G	
Aug 21 2015	12"	17mmT4		
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006	1.9"	12x50	B,S,R=F	
Mar 27 2006	8"	19mmW	S,LOOSE,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>WINN4</b>	<b>UMa</b>	<b>M40</b>	<b>Unknown STAR</b>	<b>M 40 WINNECKE 4 KUG 2357+22</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006	1.9"	12x50	2-STARS	
Mar 19 2006	8"	19mmW	R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	
<b>NGC 2287 CMa</b>	<b>M41</b>		<b>Open Cluster 8.0 I 3 r CL,VL,B,LC,ST 8...</b>	<b>M 41 Cr 118</b>
Jan 02 2016	1.9"	12x50	SOFT PATCH OF STARS ABOUT 4 DEGREES WEST OF 3-STAR ASTERISM.	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	VB,VL,NND,R=G, RESOLVE 12+	
Mar 19 2006	8"	25mmPL	B,L,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD.	
<b>NGC 1976 Ori</b>	<b>M42</b>		<b>Nebula EN+RN</b>	<b>THETAORI \$GREAT NEB</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	<b>M 42 Orion Nebula LBN 974</b>
Feb 17 2012	18"	17mmAT	FIRST OBJECT WITH 18" F/4.5 ASTROSYSTEMS	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUW		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Dec 28 2008	31"	17mmT4	VB,VL,R=E, TRAP=6 STARS	
Mar 17 2007	1.9"	12x50	M.M. BETWEEN CLOUDS	
Sep 08 2006	1.9"	12x50	DFF,MB,PL PATCH OF NEB.,R=G	
Apr 17 2006	8"	19mmW	PB,PL,HISB,R=E	
Mar 19 2006	8"	19mmW	PB,PL,R=E	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	

# Observations by Messier Objects

<b>NGC 1982 Ori</b>	<b>M43</b>	<b>H1-3</b>	<b>Nebula E</b>	<b>VB,VL,RW/TAIL,MBM*8</b>	<b>M 43</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Feb 17 2012	18"	17mmT4	SECOND OBJECT		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009	12"	20mmUW			
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 17 2007	1.9"	12x50	M.M. BETWEEN CLOUDS		
Sep 08 2006	1.9"	12x50	DFF,B,LPATCH OF NEB.,R=G		
Mar 19 2006	8"	19mmW	PB,PL,R=E		
Mar 06 2005	8"	11mmT6	VB,VL,VHISB,R=E!!!, OIII FILTER		
Feb 03 2005	31"	11mmT6	480X+,TRAPEZIUM!!!!		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		

<b>NGC 2632 Cnc</b>	<b>M44</b>		<b>Open Cluster 6.0 II 3 PRAESEPE CANCRI</b>	<b>M 44 Praesepe Cr 189</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007	1.9"	12x50	B,L,RICH CLUSTER,R=G	
Mar 19 2006	8"	25mmPL	PB,PL,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	

<b>M 45 Tau</b>	<b>M45</b>		<b>Open Cluster</b>	<b>M 45 Pleiades ESO 193-8 FAIR1</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Oct 29 2006	1.9"	12x50	VB,VL,LOOSE CLUSTER,R,R=G	
Mar 19 2006	8"	25mmPL	PB,VL,R=E. PRETTY NICE	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	
Dec 26 2003	8"	25mmPL	COMPTER = ARGO NAVIS	

<b>NGC 2437 Pup</b>	<b>M46</b>		<b>Open Cluster 10.0 II 2 CL,VB,VRI,VL,INV PLN</b>	<b>M 46 Cr 159</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	B,ML,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	

## Observations by Messier Objects

<b>NGC 2422 Pup</b>	<b>M47</b>	<b>H38-8</b>	<b>Open Cluster 5.0 I 3 mCL,B,VL,PRI,ST L\$\$</b>	<b>M 47 Cr 152 NGC 2478</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	PB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	
<b>NGC 2548 Hya</b>	<b>M48</b>	<b>H22-6</b>	<b>Open Cluster 8.0 I 3 r CL,VL,PRI,PMC,*9..13</b>	<b>M 48 Cr 179</b>
May 22 2015	12"	17mmT4	TYPICAL OPEN CLUSTER R=F	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	F,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 25 2004	8"	25mmPL	1ST. QTR.	
<b>NGC 4472 Vir</b>	<b>M49</b>		<b>Galaxy E2 VB,L,R,MBM,R</b>	<b>M 49 MCG 6-3-25 CGCG 520-31 F</b>
Apr 14 2016	12"	11mmT6	SOME MORE EYE CANDY	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 14 2007	31"	17mmT4	B,CL,OVAL,BNUC,HISB,R=G	
May 06 2007	1.9"	12x50	PB,PS,OVAL,NND,R=G	
Mar 26 2006	8"	19mmW	B,L,OVAL,BNUC,HISB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 2323 Mon</b>	<b>M50</b>		<b>Open Cluster 9.0 II 3 r CL,VL,RI,PC,E,</b>	<b>M 50 Cr 124</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007	1.9"	12x50	B,PL,RICH PATCH, RESOLVE 7+ STARS	
Mar 19 2006	8"	25mmPL	B,ML,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 09 2004	8"	25mmPL	COMPTER = ARGO NAVIS	

# Observations by Messier Objects

<b>NGC 5194 CVn</b>	<b>M51</b>	<b>Galaxy SA(s)bc pec</b>	<b>GREAT SPIRAL NEBULA</b>	<b>M 51 Whirlpool Galaxy UGC 958</b>
May 14 2017	12"	11mmT6	B,S,R,BNUC,R=E. SOME STRUCTURE NOTED IN ARMS	
Apr 14 2016	12"	8mm Ds	R,S,R,FNUC,R=G,FAINT STRUCTURE NOTED	
Aug 21 2015	12"	11mmT6	MOON WAS 7 DAYS OLD. NOT THE BEST FOR GALAXIES.	
Jul 15 2015	12"	17mmT4	JUST CRUSIN'	
May 23 2015	12"	8mm Ds	CAN JUST SEE SPIRAL STRUCTURE	
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
May 30 2014	36"	17mmT4	GREAT VIEW. SPIRAL STRUCTURE NOTED.	
May 30 2014	18"	8mm Ds	MORE DETAIL THAN THE 36". M51 AT ZENITH.	
Jul 13 2013	18"	7mm TV	MORE EYE CANDY - WHIRLPOOL GALAXY	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Jul 04 2011	12"	7mm TV	SUPERNOVE SEEN, REMARKABLE ARM STRUCTURE, R=GREAT	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Jan 11 2007	1.9"	12x50	VB,PL,OVAL,BNUC,R=G	
Mar 26 2006	8"	19mmW	VB,PL,OVAL,BNUC,R=G	
Apr 08 2005	31"	28mm	VB,VL,OVAL,BNUC,R=E!!	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	

<b>NGC 7654 Cas</b>	<b>M52</b>	<b>Open Cluster 11.0 II 2 CL,L,RI,MCM,R,*9..13</b>	<b>M 52 Cr 455</b>
Dec 05 2015	12"	17mmT4	
Aug 21 2015	12"	17mmT4	
Oct 26 2014	12"	22mmAT	EYE CANDY
Mar 16 2012	18"	17mmAT	2012 M.M.
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010	12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
Aug 20 2006	1.9"	12x50	B,L,R=G
Mar 19 2006	8"	25mmPL	PB,FL,R,R=G
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
Dec 26 2003	8"	25mmPL	Q/M COLD

<b>NGC 5024 Com</b>	<b>M53</b>	<b>Globular</b>	<b>GCL,B,VC,IR,VVMBM,</b>	<b>M 53</b>
May 30 2016	12"	8mm Et	FMSMR=G. RESOLVED OUTER STARS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	PB,PL,R=G,COMPRESSED	
Mar 26 2006	8"	19mmW	PB,L,HSB,R=G, DENSE	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	

<b>NGC 6715 Sgr</b>	<b>M54</b>	<b>Globular</b>	<b>GCL,VB,L,R,G,SMBM,</b>	<b>M 54</b>
Jul 05 2016	12"	8mm Et	SMALL AND TIGHT,R=G	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Aug 16 2006	1.9"	12x50	PF,PS,R=F	
Mar 27 2006	8"	19mmW	PF,PS,R=F,TIGHT GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

# Observations by Messier Objects

<b>NGC 6809 Sgr</b>	<b>M55</b>	<b>Globular</b>	<b>GCL,PB,L,R,VRI,VGBM</b>	<b>M 55</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Aug 16 2006	1.9"	12x50	PF,L,R=F	
Mar 27 2006	8"	19mmW	VF,L,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6779 Lyr</b>	<b>M56</b>	<b>Globular</b>	<b>GCL,B,L,IR,GVMCM,RRR</b>	<b>M 56</b>
Jul 19 2017	12"	11mmT6	F,S,R=G	
Jun 17 2016	12"	8mm Ds	VERY NICE	
Oct 24 2012	8"	11mmT6	STILL NICE. LIKE THOSE GLOBS.	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Jun 30 2008	16"	17mmT4	PB,PL,R=G	
Oct 08 2006	1.9"	12x50	F,S,R=F	
Mar 27 2006	8"	19mmW	F,PS,R,R=F, LOOSELY PACKED	
Dec 26 2003	8"	25mmPL	Q/M COLD	
<b>NGC 6720 Lyr</b>	<b>M57</b>	<b>Planetary Neb 4+3</b>	<b>RINGNEB,B,PL,CE,LYRA</b>	<b>M 57 Ring Nebula PK 63+13.1 PH</b>
Jul 02 2017	12"	17mmT4	SURPRISINGLY NOT TOO BAD	
Jul 05 2016	12"	8mm Et	SUPER	
Jun 17 2016	12"	8mm Ds	SURPRISINGLY NICE IN THE MOONLIGHT	
Aug 21 2015	12"	8mm Ds	LP2 FILTER	
Jul 15 2015	12"	8mm Ds		
May 23 2015	12"	11mmT6	EYE CANDY	
May 18 2014	18"	8mm Ds	EYE CANDY.	
Jul 13 2013	18"	7mm TV	EYE CANDY	
Oct 21 2012	8"	25mmPL	ANOTHER SURPRISE AT HOME, ROUND AND DISTINCT	
May 23 2012	18"	17mmAT	EYE CANDY	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Jun 30 2008	16"	17mmT4	PB,PL,R,NO CENTRAL STAR,R=G	
Oct 08 2006	1.9"	12x50	PB,S,R=G	
Mar 27 2006	8"	19mmW	B,L,R, R=G	
Aug 14 2004	8"	11mmT6	F/L W/NEW FOCUSER, NAGLER, DOBSON	
Dec 26 2003	8"	25mmPL	Q/M COLD	
Oct 10 2003	8"	25mmPL	FIRST LIGHT - FIRST OBJECT	
<b>NGC 4579 Vir</b>	<b>M58</b>	<b>Galaxy SAB(rs)b</b>	<b>B,L,IR,VMBM,R</b>	<b>M 58 UGC 811 MCG 6-3-28 CGC</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	F,S,R,NND,R=F	
Mar 26 2006	8"	19mmW	F.S.VA;.NND.R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	



## Observations by Messier Objects

<b>NGC 4621 Vir</b>	<b>M59</b>		<b>Galaxy E5</b>	<b>B,PL,LE,VSVMBM,2*P</b>	<b>M 59 FAIR689 PGC 42628</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007	1.9"	12x50	B,PS,OVAL,FNUC,R=G		
Mar 26 2006	8"	19mmW	F,L,OVAL,NND,R=F		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 4649 Vir</b>	<b>M60</b>		<b>Galaxy E2</b>	<b>VB,PL,R,FOF DNEB</b>	<b>M 60 ESO 151-39 PGC 42831</b>
Apr 14 2016	12"	11mmT6			
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007	1.9"	12x50	B,PS,R,FNUC,R=G		
Mar 26 2006	8"	19mmW	F,L,OVAL,NND,R=F		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 4303 Vir</b>	<b>M61</b>	<b>H139-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VSBM*,BIN</b>	<b>M 61 KUG 109+322 PGC 40001</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
May 06 2007	1.9"	12x50	PB,PS,OVAL,NND,R=G		
Mar 26 2006	8"	19mmW	DIFF,F,L,OVAL,NND,R=F		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 6266 Oph</b>	<b>M62</b>		<b>Globular</b>	<b>GCL,VB,L,GMBM,RRR,</b>	<b>M 62</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006	1.9"	12x50	B,S,R=F		
Mar 27 2006	8"	19mmW	B,S,R=G, TIGHT GROUP		
Aug 14 2004	8"	11mmT6			
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL		

## Observations by Messier Objects

<b>NGC 5055 CVn M63</b>			<b>Galaxy SA(rs)bc</b>	<b>VB,L,PME120,VSMBMBN</b>	<b>M 63 Sunflower Galaxy UGC 928</b>
May 14 2017	12"	11mmT6	R=E		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007	1.9"	12x50	F,FL,OVAL,NND,R=G		
Mar 26 2006	8"	19mmW	PB,PL,EON,BNUC,HISB,R=G		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 30 2003	8"	25mmPL	H/M COLD		
<b>NGC 4826 Com M64</b>			<b>Galaxy (R)SA(rs)ab</b>	<b>VB,VL,VME120,BMSBN</b>	<b>M 64 Black-eye Galaxy CGCG 38!</b>
May 14 2017	12"	11mmT6	R=E		
Sep 19 2014	12"	17mmAT	PF,L,OVAL,FNUC,R=F, HOME - 8/14/14		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007	1.9"	12x50	B,PL,OVAL,NND,R=G		
Mar 26 2006	8"	19mmW	PB,PL,EL,OVAL,BNUC,R=G		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3623 Leo M65</b>			<b>Galaxy SAB(rs)a</b>	<b>B,VL,ME165,GBMBN</b>	<b>M 65 ESO 541-9A ARP 317 PGC</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Apr 15 2007	31"	32mmUW	VB,VL,EON,BNUC,HISB,R=E		
Mar 10 2007	1.9"	12x50	VF,PS,OVAL,NND,AV,R=F		
Mar 19 2006	8"	19mmW	PB,L,EL,OVAL,FNUC,R=G		
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004	8"	25mmPL	1ST. QTR.		
<b>NGC 3627 Leo M66</b>			<b>Galaxy SAB(s)b</b>	<b>B,VL,ME150,MBM,2*NP</b>	<b>M 66 MCG -2-3-64 VV 361 ARP 1!</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Apr 15 2007	31"	32mmUW	VB,PL,EL,OVAL,BNUC,HISB,R=G		
Mar 10 2007	1.9"	12x50	B,PL,OVAL,NND,R=G		
Mar 19 2006	8"	19mmW	PB,PL,EL,OVAL,BNUC,R=G		
Apr 04 2005	8"	11mmT6	VB,ML,EL,EON,NUC,HISB,R=E		
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004	8"	25mmPL	1ST. QTR.		

## Observations by Messier Objects

<b>NGC 2682 Cnc</b>	<b>M67</b>		<b>Open Cluster 9.0 II 3 r CL,VB,VL,ERI,LC,*10.</b>	<b>M 67 Cr 204</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007	1.9"	12x50	PB,PL,PATCHY,R=G	
Mar 19 2006	8"	25mmPL	B,L,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 16 2004	8"	25mmPL	1ST. QTR.	

<b>NGC 4590 Hya</b>	<b>M68</b>		<b>Globular GCL,L,ERI,VC,IR,ST12</b>	<b>M 68</b>
May 14 2017	12"	11mmT6	LOW ON HORIZON. JUST A SMUDGE	
May 30 2016	12"	8mm Et	PF,PS,R=F. LOW ON HORIZON	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 27 2006	8"	19mmW	F,L,R,R=F, DENSE CLUSTER	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	

<b>NGC 6637 Sgr</b>	<b>M69</b>		<b>Globular GCL,B,L,R,RRR,*14.16</b>	<b>M 69</b>
Jul 05 2016	12"	8mm Et	EXCELLENT	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 13 2007	31"	31mmT5	PB,PS,MORE STARS, CONDENSED,R=E	
Aug 20 2006	1.9"	12x50	F,S,R=F	
Mar 27 2006	8"	19mmW	F,S,R=F,TIGHT GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

<b>NGC 6681 Sgr</b>	<b>M70</b>		<b>Globular GCL,B,PL,R,GBM,</b>	<b>M 70</b>
Jul 05 2016	12"	8mm Et	VERY GOOD	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 20 2006	1.9"	12x50	PF,S,R=F	
Mar 27 2006	8"	19mmW	PF,PS,R=F,TIGHT GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

## Observations by Messier Objects

<b>NGC 6838</b>	<b>Sge</b>	<b>M71</b>	<b>Globular</b>	<b>CL,VL,VRI,PMC,*11.16</b>	<b>M 71</b>
Jul 19 2017	12"	11mmT6	F,S,R=G.	LOOKED BETTER THAN M56	
Sep 02 2016	12"	8mm Et	NOT BAD.	HAVEN'T LOOKED AT THIS ONE IN A WHILE.	
Oct 21 2012	8"	11mmT6	F,S,R=G,	ANOTHER SURPRISE UNDER THE STREETLIGHTS	
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 -	MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010	MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER	MARATHON - 2009	
Sep 01 2008	31"	17mmT4	PB,PS,USB,R=G,	NICE GLOBULA	
Aug 20 2006	1.9"	12x50	F,L,R=F		
Mar 27 2006	8"	19mmW	DIFF,F,L,R=F,	LOOSELY PACKED	
Jul 16 2004	8"	25mmPL	CLEAR -	SEEING NOT TOO BAD	
Jun 19 2004	8"	25mmPL	GOOD NIGHT -	MEGASTAR	
<b>NGC 6981</b>	<b>Aqr</b>	<b>M72</b>	<b>Globular</b>	<b>GCL,PB,PL,R,GMCM,RRR</b>	<b>M 72</b>
Sep 13 2009	12"	32mmUW	2ND OBJECT.		
Oct 08 2006	1.9"	12x50	VF,S,R=F		
Oct 06 2004	8"	11mmT6	PB,L,R=G,	TIGHT GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT -	MEGASTAR	
<b>NGC 6994</b>	<b>Aqr</b>	<b>M73</b>	<b>Open Cluster 11.1</b>	<b>IV 1CL,EP,VLC,NO NEB</b>	<b>M 73 Cr 426</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Oct 08 2006	1.9"	12x50	F,S,R=F		
Mar 27 2006	8"	19mmW	R=P, 4	STARS?	
Jun 19 2004	8"	25mmPL	GOOD NIGHT -	MEGASTAR	
<b>NGC 628</b>	<b>Psc</b>	<b>M74</b>	<b>Galaxy SA(s)c</b>	<b>GCL,F,VL,R,VG,PSMBM</b>	<b>M 74 CGCG 499-52 CGCG 498-80</b>
Mar 01 2011	12"	17mmAT	M.M. 2011 -	MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010	MANUAL SETTING CIRCLES	
Oct 29 2006	1.9"	12x50	B,CS,OVAL,FNUC,	R=G	
Oct 06 2004	8"	11mmT6	F,PL,R,NND,	R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER	MARATHON - ARGO NAVIS	
<b>NGC 6864</b>	<b>Sgr</b>	<b>M75</b>	<b>Globular</b>	<b>GCL,B,PL,R,VMBMBN,RR</b>	<b>M 75</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 08 2010	12"	11mmT6	M.M. 2010	MANUAL SETTING CIRCLES	
Aug 16 2006	1.9"	12x50	PF,S,R=F		
Jul 16 2006	8"	19mmW	PF,PS,R=F		
Jul 09 2005	8"	11mmT6	PB,PL,R=G,	TIGHT GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT -	MEGASTAR	

## Observations by Messier Objects

<b>NGC 650</b>	<b>Per</b>	<b>M76</b>	<b>H193-1</b>	<b>Planetary Neb 3+6</b>	<b>VB,P OF DNEB</b>	<b>M 76 Little Dumbbell PK 130-10.1</b>
Mar 16 2012	18"	17mmAT	2012 M.M.			
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES			
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES			
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009			
Oct 01 2006	1.9"	12x50	PF,PS,R,R=F			
Jul 24 2006	8"	11mmT6	PF,L,R,R=G			
Mar 19 2006	8"	19mmW	PF,L,VLE,R=G			
Dec 01 2004	31"	11mmT6	VB,HISB,R=E, SOLO EFFORT			
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
Dec 26 2003	8"	25mmPL	Q/M COLD			
<b>NGC 1068</b>	<b>Cet</b>	<b>M77</b>		<b>Galaxy (R)SA(rs)b</b>	<b>VB,PL,IR,SBMRRN</b>	<b>M 77 KUG 13+310 PGC 10266</b>
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES			
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES			
Nov 13 2007	8"	11mmT6	PB,L,OVAL,BNUC,HISB,R=G			
Oct 29 2006	1.9"	12x50	PF,PS,OVA,NND,R=F			
Mar 19 2006	8"	19mmW	B,FL,OVAL,FNUC,MSB,R=F			
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
<b>NGC 2068</b>	<b>Ori</b>	<b>M78</b>		<b>Nebula R</b>	<b>B,L,WISP,GMBN,3*INV</b>	<b>M 78</b>
Mar 16 2012	18"	17mmAT	2012 M.M.			
Feb 17 2012	18"	17mmT4	OBSERVED WITH 18" ASTROSYSTEMS			
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES			
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES			
Dec 16 2009	12"	20mmUW				
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009			
Mar 17 2007	1.9"	12x50	M.M. BETWEEN CLOUDS			
Oct 29 2006	1.9"	12x50	F,S,R=F			
Mar 19 2006	8"	19mmW	B,L,R=F			
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
Dec 26 2003	8"	25mmPL	Q/M COLD			
<b>NGC 1904</b>	<b>Lep</b>	<b>M79</b>		<b>Globular</b>	<b>GCL,PL,ERI,EC,RRR</b>	<b>M 79</b>
Mar 16 2012	18"	17mmAT	2012 M.M.			
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES			
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES			
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009			
Mar 26 2006	8"	19mmW	B,PS,,TIGHT,R=F			
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
Dec 26 2003	8"	25mmPL	Q/M COLD			

## Observations by Messier Objects

<b>NGC 6093 Sco</b>	<b>M80</b>		<b>Globular</b>	<b>GCL,VB,L,VMBM(VAR*)</b>	<b>M 80</b>
Jul 01 2016	12"	8mm Et	B,F,R=G		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 20 2006	1.9"	12x50	PF,S,R=F		
Mar 27 2006	8"	19mmW	VB,S,R=G,TIGHT GROUP		
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 3031 UMa</b>	<b>M81</b>		<b>Galaxy SA(s)ab</b>	<b>EB,EL,E156,GSVMBMBN 2</b>	<b>M 81 Bode's Nebula UGC 527 M81</b>
Jul 25 2017	12"	11mmT6	NOT BAD.		
May 14 2017	12"	11mmT6	EXCELLENT		
Jul 01 2016	12"	8mm Et	EYE CANDY		
Apr 14 2016	12"	8mm Ds	F,S,OVAL,NND,R=G		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007	1.9"	12x50	FB,L,OVAL,FNUC,R=G		
Aug 20 2006	1.9"	12x50	PB,PL,OVAL,FNUC,HISB,R=G		
Mar 19 2006	8"	19mmW	PB,PL,EL,EON,BNUC,R=G		
May 04 2005	8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E!		
Apr 04 2005	8"	11mmT6	VB,VL,EON,NUC,HISB,R=E!!		
Feb 10 2005	8"	11mmT6	MF,ML,OVAL,NND,R=F		
Apr 14 2004	31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL		
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004	8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 30 2003	8"	25mmPL	H/M COLD		

# Observations by Messier Objects

<b>NGC 3034 UMa M82</b>	<b>H79-4</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>	<b>M 82 UM283 PGC 28655</b>
Jul 25 2017	12"	11mmT6	NOT BAD	
May 14 2017	12"	11mmT6	EXCELLENT	
Jul 01 2016	12"	8mm Et	EYE CANDY	
Apr 14 2016	12"	8mm Ds	F,S,PEXT,NND,R=G,BRIGHT KNOT ON ONE END.	
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Mar 30 2014	28"	17mmAT	SUPER NOVA IN M-82. NEAT TO SEE. M-82 LOOKED GREAT WITH THE DUST LANES	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007	1.9"	12x50	FB,FS,OVAL,NND,R=F	
Aug 20 2006	1.9"	12x50	PB,L,OVAL,FNUC,R=G	
Mar 19 2006	8"	19mmW	PB,PL,EON,FNUC,R=G	
May 04 2005	8"	19mmW	VB,ML,EL,EON,BNUC,VHISB,R=E!	
Apr 14 2004	31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL	
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	
<b>NGC 5236 Hya M83</b>		<b>Galaxy SAB(s)c</b>	<b>VB,VL,E55,ESBMN,SPIR</b>	<b>M 83 CGCG 459-49 PGC 48082</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 27 2006	8"	19mmW	DIFF,F,L,OVAL,,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
<b>NGC 4374 Vir M84</b>		<b>Galaxy E1</b>	<b>VB,PL,R,PSBM,R</b>	<b>M 84 MCG -3-4-28 VV 258 PGC 4</b>
May 14 2017	12"	11mmT6	F,VS,R,BNUC,R=E	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	B,S,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 4382 Com M85</b>		<b>Galaxy SA(s)0+ pec</b>	<b>VB,PL,R,BM,*NP</b>	<b>M 85 ESO 352-21 MCG -6-3-28 PGC 4</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	VF,PS,OVAL,NND,AV,R=F	
Mar 26 2006	8"	19mmW	B,L,OVAL,BNUC,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	

# Observations by Messier Objects

<b>NGC 4406 Vir</b>	<b>M86</b>	<b>Galaxy E3</b>	<b>VB,L,R,GBMN,R</b>	<b>M 86 ESO 296-7 MCG -6-3-29 IRA</b>
May 14 2017	12"	11mmT6	F,PS,R,BNUC,R=E	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	B,S,R,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 4486 Vir</b>	<b>M87</b>	<b>Galaxy E+0-1 pec</b>	<b>VB,VL,R,MBM,3RD OF 3</b>	<b>M 87 UGC 791 MCG 0-4-52 CGC</b>
Sep 19 2014	12"	17mmAT	PF,L,R=G, HOME - 8/14/14	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	PF,S,OVAL,R=F	
Mar 26 2006	8"	19mmW	B,LLARGER,FNUC,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 4501 Com</b>	<b>M88</b>	<b>Galaxy SA(rs)b</b>	<b>B,VL,VME</b>	<b>M 88 CGCG 385-49 PGC 41517</b>
Apr 14 2016	12"	8mm Ds	EYE CANDY	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	PF,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	B,L,OVAL,FNUC,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 4552 Vir</b>	<b>M89</b>	<b>Galaxy E0-1</b>	<b>PB,PS,R,GMBM</b>	<b>M 89 MCG -2-4-16 PGC 41968</b>
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	B,S,R,NND,R=F	
Mar 26 2006	8"	19mmW	B,L,R,FNUC,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
<b>NGC 4569 Vir</b>	<b>M90</b>	<b>Galaxy SAB(rs)ab</b>	<b>PL,BMN</b>	<b>M 90 ESO 195-35 FAIR294 IRAS</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 18 2007	31"	17mmT4	EB,EL,EL,OVAL,BNUC,HISB,R=E	
May 06 2007	1.9"	12x50	PB,PS,OVAL,NND,R=G	
Mar 26 2006	8"	19mmW	F,L,EON,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	



# Observations by Messier Objects

<b>NGC 4548 Com M91</b>	<b>H120-2</b>	<b>Galaxy SB(rs)b</b>	<b>B,L,LE,LBM</b>	<b>M 91 MCG -1-4-18 PGC 41934</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	VF,S,OVAL,NND,R=F	
Apr 26 2006	8"	11mmT6	B,L,EON,NND,R=F	
Mar 26 2006	8"	19mmW	B,L,EON,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 6341 Her M92</b>		<b>Globular</b>	<b>GCL,VB,VL,ECM,ST S</b>	<b>M 92</b>
Jul 02 2017	12"	17mmT4	GOOD	
May 14 2017	12"	11mmT6	RESOLVED STARS	
May 30 2016	12"	8mm Ds	B,L,R=E. OUTSTANDING. NOT AS LARGE AS M13 THOUGH.	
Aug 21 2015	12"	8mm Ds		
Oct 24 2012	8"	11mmT6	STILL NICE.	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Sep 07 2006	1.9"	12x50	DIFF,PF,PS,R=F	
Mar 27 2006	8"	19mmW	B,L,R,R=G,DENSE,RESOLVE OUTER STARS	
Oct 31 2004	1.9"	12x50	R=G	
Aug 14 2004	8"	11mmT6		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
<b>NGC 2447 Pup M93</b>		<b>Open Cluster 9.0 I 3 r</b>	<b>CL,L,PRI,LC,ST8...13</b>	<b>M 93 Cr 160</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	B,FS,R=G. SMALL TIGHT GROUP	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	
<b>NGC 4736 CVn M94</b>		<b>Galaxy (R)SA(r)ab</b>	<b>VB,L,IR,VSVMBMBN,R</b>	<b>M 94 UGC 848 MCG 0-4-79 CGCG</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007	1.9"	12x50	PF,S,R,NND,R=F	
Mar 26 2006	8"	19mmW	PB,S,OVAL,BNUC,HISB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	

## Observations by Messier Objects

<b>NGC 3351 Leo M95</b>		<b>Galaxy SB(r)b</b>	<b>B,L,R,PGMBMN</b>	<b>M 95 UGC 578 MCG 7-3-7 CGCG</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 19 2006	8"	19mmW	FB,L,OVAL,RNUC,HISB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 25 2004	8"	25mmPL	1ST. QTR.	
<b>NGC 3368 Leo M96</b>		<b>Galaxy SAB(rs)ab</b>	<b>VB,VL,LE,VSVMBM,R</b>	<b>M 96 ESO 151-7 PGC 32192</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 19 2006	8"	19mmW	FB,L,OVAL,RNUC,HISB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 25 2004	8"	25mmPL	1ST. QTR.	
<b>NGC 3587 UMa M97</b>		<b>Planetary Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>	<b>M 97 Owl Nebula PK 148+57.1 PI</b>
Apr 14 2016	12"	8mm Ds	PRETTY FAINT. NO FILTER USED.	
Aug 15 2015	12"	11mmT6		
May 23 2015	12"	11mmT6		
Jul 13 2013	18"	7mm TV	MORE EYE CANDY	
May 23 2012	18"	17mmAT	EYE CANDY	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Jul 04 2011	12"	11mmT6	LAST OBJECT OF THE NIGHT. BACK TO WORK.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007	1.9"	12x50	B,R,R=G. LOOKS STELLAR	
Aug 20 2006	1.9"	12x50	PF,VS,AV,R=F	
Mar 19 2006	8"	19mmW	PB,L,R,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	
<b>NGC 4192 Com M98</b>		<b>Galaxy SAB(s)ab</b>	<b>B,VL,VME152,VSVMBM</b>	<b>M 98 MCG -1-4-6 PGC 39028</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	VF,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	F,FL,OVAL,NND,UB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	

## Observations by Messier Objects

<b>NGC 4254 Com M99</b>		<b>Galaxy SA(s)c</b>	<b>B,L,R,GBM,R,3BRSPIRA</b>	<b>M 99 Pin-wheel Nebula UGC 744</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
May 06 2007	1.9"	12x50	F,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	F,S,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 4321 Com M100</b>		<b>Galaxy SAB(s)bc</b>	<b>PF,VL,R,VG,PSBMRN</b>	<b>M 100 CGCG 501-128 CGCG 502-</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007	1.9"	12x50	F,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	F,L,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 5457 UMa M101</b>		<b>Galaxy SAB(rs)cd</b>	<b>PB,VL,IR,G,VSMBMBSN 4</b>	<b>M 101 UGC 1035 MCG 8-3-23 CG</b>
Jul 15 2015	12"	17mmT4		
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006	1.9"	12x50	F,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	F,L,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
<b>NGC 5866 Dra M102 H215-1</b>		<b>Galaxy SA0+ sp</b>	<b>VB,CL,PME146,GBM</b>	<b>M 102 MCG -3-5-8 IRAS 1322-154</b>
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 26 2006	8"	19mmW	B,S,OVAL,FNUC,MSB,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	

## Observations by Messier Objects

<b>NGC 581</b>	<b>Cas</b>	<b>M103</b>	<b>Open Cluster 9.0 II 2</b>	<b>CL,PL,B,R,RI,*10..11</b>	<b>M 103 Cr 14</b>
Dec 05 2015	12"	17mmT4			
Oct 21 2012	8"	11mmT6	B,S,R=G		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 20 2006	1.9"	12x50	PB,PL,R=G		
Mar 19 2006	8"	25mmPL	PB,FL,OVAL,R=G. BRIGHTER STARS		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		
<b>NGC 4594</b>	<b>Vir</b>	<b>M104 H43-1</b>	<b>Galaxy SA(s)a sp</b>	<b>VB,VL,EE92,VSMBMN</b>	<b>M 104 Sombrero Galaxy MCG 5-4</b>
May 14 2017	12"	11mmT6	VERY NICE.		
Apr 14 2016	12"	8mm Ds	PF,PS,EON,FNUC,R=F,DUST LANE FAINT.		
May 23 2015	12"	11mmT6			
May 22 2015	12"	8mm Ds	ALWAYS GREAT. DUST LANE VISIBLE		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Apr 02 2008	31"	40mm	PB,PL,EON,BNUC,HISB,R=E		
May 06 2007	1.9"	12x50	PB,PL,EON,NND,R=G		
Apr 19 2007	31"	17mmT4	VB,VL,EON,BNUC,VHISB,R=E!!		
Mar 26 2006	8"	19mmW	PB,PL,EON,BNUC,HISB,R=G		
Apr 05 2005	8"	7.5mmW	VB,VL,EON,NUC,HISB,R=E!!		
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3379</b>	<b>Leo</b>	<b>M105 H17-1</b>	<b>Galaxy E1</b>	<b>VB,CL,R,PSBM,R</b>	<b>M 105 ESO 151-10 PGC 32256</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Apr 02 2008	8"	11mmT6	PB,PLM,R,BNUC,HSB,R=G		
May 06 2007	1.9"	12x50	PF,PS,OVAL,NND,R=F		
Mar 19 2006	8"	19mmW	FB,CL,OVAL,BNUC,HISB,R=G		
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004	8"	25mmPL	1ST. QTR.		

## Observations by Messier Objects

<b>NGC 4258 CVn</b>	<b>M106</b>	<b>H43-5</b>	<b>Galaxy Sb</b>	<b>VB,VL,VME0,SBMBN</b>	<b>M 106 UGC 743 CGCG 501-122 F</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 26 2006	8"	19mmW	MB,ML,OVAL,FNUC,MSB,,R=F		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		
<b>NGC 6171 Oph</b>	<b>M107</b>	<b>H40-6</b>	<b>Globular</b>	<b>GCL,L,VRI,VMC,R,RRR</b>	<b>M 107</b>
Jul 02 2017	12"	17mmT4	OK		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Aug 20 2006	1.9"	12x50	VF,PS,AV,R=F		
Mar 27 2006	8"	19mmW	F,L,R=F, DENSE		
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
<b>NGC 3556 UMa</b>	<b>M108</b>	<b>H46-5</b>	<b>Galaxy SB(s)cd sp</b>	<b>CB,VL,VME79,PBM,R</b>	<b>M 108 ESO 29-26 PGC 34030</b>
Jul 15 2015	12"	17mmT4			
May 23 2015	12"	11mmT6			
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007	1.9"	12x50	F,S,EON,NND,R=F		
Aug 20 2006	1.9"	12x50	PF,PS,OVAL,NND,R=F		
Mar 19 2006	8"	19mmW	FB,FL,EL,EON,RNUC,R=G		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		
<b>NGC 3992 UMa</b>	<b>M109</b>	<b>H61-4</b>	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SBMBRN</b>	<b>M 109 UGC 691 PGC 37617</b>
Jul 15 2015	12"	17mmT4			
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 19 2006	8"	19mmW	F,FS,OVAL,NND,R=F		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 09 2004	8"	25mmPL	COMPTER = ARGO NAVIS		

## Observations by Messier Objects

NGC 205	And	M110	H18-5	Galaxy E5 pec	VB,VL,ME165,VGVMBM	M 110 UGC 5	MCG 0-1-21	CGCG
Sep 02 2016		12"	35mm A	SUPER				
Dec 05 2015		12"	17mmT4					
Aug 21 2015		12"	8mm Ds					
Oct 26 2014		12"	22mmAT	EYE CANDY				
Jul 13 2013		18"	35mm A	MORE EYE CANDY				
Mar 16 2012		18"	17mmAT	2012 M.M.				
Mar 01 2011		12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES				
Aug 31 2010		12"	17mmAT	NIGHT ENDING EYE CANDY				
Mar 08 2010		12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES				
Dec 16 2009		12"	20mmUW					
Mar 20 2009		1.9"	12x50	MESSIER MARATHON - 2009				
Aug 20 2006		1.9"	12x50	B,L,OVAL,UB,NND,R=G				
Mar 19 2006		8"	25mmPL	PB,ML,OVALFNUC,HISB,R=G				
Oct 27 2004		31"	31mmT5	VB,ML,OVALL,HISB,R=E, LUNAR ECLIPSE				
Mar 19 2004		8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS				
Dec 26 2003		8"	25mmPL	Q/M COLD				