

## Andromeda - Daughter of Cassiopeia

<b>BOL</b>	<b>119</b>		<b>Globular</b>
Aug 02 2005	8"	11mmT6 MB,ML,OVAL,MSB,R=G	
<b>IC</b>	<b>43</b>		<b>Galaxy SABc</b>
Sep 12 2010	12"	7mm TV DIFF,VF,PS,R,NND,R=F	
<b>IC</b>	<b>65</b>		<b>Galaxy SAB(s)bc</b>
Oct 17 2004	8"	7.5mmW MF,EL,EON,NND,AV,R=G	
<b>IC</b>	<b>179</b>		<b>Galaxy E</b>
Nov 08 2010	12"	5.5mmN PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>239</b>		<b>Galaxy SAB(rs)cd</b>
Sep 02 2019	12"	11mmT6	
Oct 29 2006	8"	19mmW PF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>240</b>		<b>Non-Existent</b>
Oct 10 2012	18"	8.8 ES NON-EXISTENT	
<b>IC</b>	<b>1534</b>		<b>Galaxy S0</b>
Oct 12 2012	18"	7mm TV VF,VS,EON,UB,NND,R=F,PA=160	
<b>IC</b>	<b>1535</b>		<b>Galaxy S</b>
Oct 12 2012	18"	7mm TV VF,VS,EON,UB,NND,R=F,PA=45	
<b>IC</b>	<b>1536</b>		<b>Galaxy E/S0</b>
Oct 12 2012	18"	7mm TV PF,VS,OVAL,UB,NND,R=F,15.4 MAG.	
<b>IC</b>	<b>1799</b>		<b>Galaxy S?</b>
Oct 10 2012	18"	8.8 ES F,PS,OVAL,PEXT,BNUC,R=G	
<b>IC</b>	<b>5369</b>		<b>Galaxy</b>
Aug 24 2012	18"	5mm TV VF,VS,OVAL,MEXT,UB,NND,R=F	
<b>IC</b>	<b>5370</b>		<b>Galaxy S0/a</b>
Oct 12 2012	18"	7mm TV VF,PS,R,UB,NND,AV2,R=F	
Aug 24 2012	18"	5mm TV PF,VS,R,UB,NND,R=F	
<b>IC</b>	<b>5371</b>		<b>Galaxy S</b>
Oct 12 2012	18"	7mm TV PF,PS,R,FNUC,R=F	
Aug 24 2012	18"	5mm TV VF,VS,R,UB,NND,R=F	
<b>IC</b>	<b>5373</b>		<b>Galaxy Sb</b>
Oct 12 2012	18"	7mm TV PF,PS,OVAL,FNUC,R=F	
<b>IC</b>	<b>5376</b>		<b>Galaxy Sab</b>
Oct 12 2012	18"	7mm TV PF,PS,EON,UB,NND,R=F,REAL THIN	

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<b>MAC 0009+3316</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>MAC 0048+3157</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 5</b>			<b>Galaxy E:</b>	<b>VF,VS,N=*13,14</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,FNUC,R=F,PA=10	
<b>NGC 11</b>			<b>Galaxy Sa</b>	<b>VF,VS,VLE,2VF*INV</b>
Oct 12 2012	18"	7mm TV	PF,PS,EON,UB.NND,R=F	
<b>NGC 13</b>			<b>H866-3 Galaxy (R)Sab:</b>	<b>VF,VS,S ST+NEB</b>
Aug 24 2012	18"	5mm TV	VF,PS,OVAL,VEXT,UB,NND,R=F	
Oct 17 2004	8"	7.5mmW	MF,EL,EON,NND,AV,R=G	
<b>NGC 20</b>			<b>Galaxy S0-:</b>	<b>F,*10ATT</b>
Aug 24 2012	18"	5mm TV	VF,PS,OVAL,UB,NND,AV2,R=P	
Oct 30 2005	31"	17mmT4	VB,ML,OVAL,FNUC,MSB,R=G	
<b>NGC 21</b>			<b>Galaxy SBb</b>	<b>EF,S,LE</b>
Sep 09 2010	12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=95	
<b>NGC 27</b>			<b>Galaxy S?</b>	<b>EF,VS,E,B*NR</b>
Oct 12 2012	18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 29</b>			<b>H853-2 Galaxy SAB(s)bc:</b>	<b>PB,PL,E0</b>
Sep 09 2010	12"	5.5mmN	CF,PS,OVAL,PEXT,UB,NND,R=F,PA=45	
<b>NGC 39</b>			<b>H861-3 Galaxy SA(rs)c</b>	<b>VF,PS,R</b>
Oct 12 2012	18"	7mm TV	VF,PS,R,UB,NND,AV,R=P	
<b>NGC 43</b>			<b>Galaxy SB0</b>	<b>EF,*12NP 45"</b>
Sep 09 2010	12"	5.5mmN	PF,PS,R,FNUC,R=F	
<b>NGC 48</b>			<b>Galaxy SABbc pec:</b>	<b>EEF,PL,R,V DIFFIC</b>
Oct 12 2012	18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>NGC 49</b>			<b>Galaxy S0?</b>	<b>EEF,S,R,2ND OF3</b>
Oct 12 2012	18"	7mm TV	VF,PS,OVAL,UB.,NND.R=F	
<b>NGC 51</b>			<b>Galaxy S0^ pec:</b>	<b>PF,PS,R,BM</b>
Oct 12 2012	18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>NGC 67</b>			<b>Galaxy E:</b>	<b>EF,VS,R</b>
Oct 12 2012	18"	7mm TV	VF,VS,R,UB,NND,R=F	

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<b>NGC 68</b>		<b>H16-5</b>	<b>Galaxy SA0-</b>	<b>EF,L,3OR4*+NEB</b>
Oct 12 2012	18"	7mm TV	VF,VS,R,UB,NND,AV2,R=P	
Aug 24 2012	18"	5mm TV	VF,PS,R,UB,NND,R=F	
<b>NGC 69</b>			<b>Galaxy SB(s)0-</b>	<b>EF,VS,R,</b>
Oct 12 2012	18"	7mm TV	VF,VS,R,UB,NND,R=F	
<b>NGC 70</b>			<b>Galaxy SA(rs)c</b>	<b>EF,VS,R,BET2F*</b>
Oct 12 2012	18"	7mm TV	VF,S,OVAL,UB,NND,R=F	
Aug 24 2012	18"	5mm TV	VF,PS,OVAL,UB,NND,AV,R=F	
<b>NGC 71</b>			<b>Galaxy SA0- pec:</b>	<b>EF,VS,R</b>
Oct 12 2012	18"	7mm TV	VF,PS,OVAL,UB,NND,R=F	
Aug 24 2012	18"	5mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 72</b>			<b>Galaxy SB(rs)ab</b>	<b>EF,VS,R</b>
Oct 12 2012	18"	7mm TV	PF,PS,R,UB,NND,R=P	
<b>NGC 72A</b>			<b>Galaxy E3:</b>	
Oct 12 2012	18"	7mm TV	VF,VS,R,UB,NND,R=F	
<b>NGC 74</b>			<b>Galaxy Sb</b>	<b>EF,S,E,LAST OF 6</b>
Oct 12 2012	18"	7mm TV	VF,VS,OVAL,MEXT,UB,AV1,R=F	
<b>NGC 76</b>			<b>Galaxy S?</b>	<b>VF,S,BM</b>
Sep 12 2010	12"	7mm TV	CF,CS,OVAL,UB,NND,R=F,PA=95	
<b>NGC 80</b>			<b>Galaxy SA0-:</b>	<b>F,S,R,PSBM</b>
Oct 26 2014	12"	11mmT6	PF,PS,R,UB,NND,R=F	
Nov 08 2010	12"	5.5mmN	VF,CS,R,UB,NND,AV2,R=F	
Oct 17 2004	8"	7.5mmW	VF,OVAL,NND,AV,R=F	
<b>NGC 83</b>			<b>Galaxy E</b>	<b>E,BIN,3B*NR</b>
Oct 26 2014	12"	11mmT6	PF,PS,R,UB,NND,R=F	
Oct 17 2004	8"	7.5mmW	VF,OVAL,NND,AV,R=F	
<b>NGC 90</b>			<b>Non-Existent</b>	
Oct 26 2014	12"	11mmT6	VF,VS,OVAL,VEXT,UB,NND,R=R	
<b>NGC 91</b>			<b>Galaxy S</b>	<b>VF,VS,*13SP</b>
Nov 08 2010	12"	5.5mmN	VF,CS,EON,UB,NND,AV3,R=F	
<b>NGC 93</b>			<b>Galaxy S?</b>	<b>VF,VS</b>
Nov 08 2010	12"	5.5mmN	VF,CS,OVAL,UB,NND,AV2,R=F	
<b>NGC 97</b>			<b>Galaxy E:</b>	<b>F,VS,R,GBM</b>
Aug 24 2012	18"	5mm TV	PF,PS,R,UB,NND,R=F	

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<b>NGC 97</b>			<b>Galaxy E:</b>	<b>F,VS,R,GBM</b>
Sep 09 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F		
<b>NGC 108</b>		<b>H148-3</b>	<b>Galaxy (R)SB(r)0+</b>	<b>PF,PL,R,PSLBM</b>
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 140</b>			<b>Galaxy Scd:</b>	<b>VF,S,R,GBM</b>
Aug 24 2012 18"	5mm TV	VF,PS,R,UB,NND,AV3,R=P		
<b>NGC 149</b>			<b>Galaxy S0:</b>	<b>VF,VS,R,GBM*14,*12SP</b>
Aug 24 2012 18"	5mm TV	VF,VS,OVAL,UB,NND,AV3,R=P		
<b>NGC 160</b>		<b>H476-3</b>	<b>Galaxy (R)SA0+ pec</b>	<b>VF,VS,STELL,*8NP4'</b>
Oct 17 2004 8"	7.5mmW	VF,EL,OVAL,NND,AV,R=F		
<b>NGC 169</b>			<b>Galaxy SA(s)ab: sp</b>	<b>F,PL,D ORBIN,*6NF4'</b>
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
<b>NGC 183</b>			<b>Galaxy E</b>	<b>PF,VS,R,GBM</b>
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 205</b>	<b>M110</b>	<b>H18-5</b>	<b>Galaxy E5 pec</b>	<b>VB,VL,ME165,VGVMBM</b>
Jul 17 2020 12"	30mmES	OUTSTANDING		
Jan 25 2018 12"	11mmT6	NICE OBJECT		
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"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUV			
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,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 206</b>		<b>H36-5</b>	<b>Knot in Galaxy</b>	<b>VF,VL,ME0</b>
Nov 10 2007 31"	17mmT4	DIFF,PF,CL,R=F,IRREGULAR SHAPE.		
<b>NGC 214</b>		<b>H209-2</b>	<b>Galaxy SAB(r)c</b>	<b>PF,PS,GVLBM,R</b>
Oct 05 2016 12"	8mm Et	PF,S,R,UB,NND,R=G. MIRACH'S GHOST		
Nov 03 2004 8"	11mmT6	VF,EL,NND,AV,R=F		

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NGC	221	M32	Galaxy cE2	VVB,L,R,PSMBMN
Jul 17 2020	12"	30mmES	OUTSTANDING	
Aug 02 2019	12"	35mm A	OUTSTANDING.	
Jan 25 2018	12"	11mmT6	NICE OBJECT	
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"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUV		
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Oct 29 2008	16"	20mmUV	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	
NGC	224	M31	Galaxy SA(s)b	EEB,EL,VME,ANDROMEDA 17
Jul 17 2020	12"	30mmES	OUTSTANDING	
Aug 02 2019	12"	35mm A	OUTSTANDING	
Jan 25 2018	12"	35mm A	NICE OBJECT	
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"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUV		
Sep 13 2009	12"	32mmUV	4TH OBJECT	
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Oct 29 2008	16"	20mmUV	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	

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<b>NGC 224</b>	<b>M31</b>	<b>Galaxy SA(s)b</b>	<b>EEB,EL,VME,ANDROMEDA 17</b>
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 226</b>		<b>Galaxy S?</b>	<b>EF,S,R,*13S20"</b>
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,UB,NND,R=F	
<b>NGC 228</b>		<b>Galaxy (R)SB(r)ab</b>	<b>EF,S,R,FAINTER OF 2</b>
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,EEXT,FNUC,R=F	
<b>NGC 229</b>		<b>Galaxy Sab</b>	<b>VF,S,R,SMALLER OF 2</b>
Aug 24 2012 18"	5mm TV	DIFF,VF,PS,R,UB,NND,R=F	
<b>NGC 233</b>	<b>H149-3</b>	<b>Galaxy E?</b>	<b>F,VS,R,LBM</b>
Sep 09 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F	
<b>NGC 243</b>		<b>Galaxy S0?</b>	<b>F,VS,R,GBM,*10P</b>
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,UB,NND,R=F	
<b>NGC 252</b>	<b>H609-2</b>	<b>Galaxy (R)SA(r)0+:</b>	<b>PB,S,R,PMBM,R,**P</b>
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,FNUC,R=F	
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,FNUC,MSB,R=F,PA=130	
<b>NGC 258</b>		<b>Galaxy Sb</b>	<b>EF,S,VF*CLOSE</b>
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,UB,NND,R=F	
<b>NGC 260</b>		<b>Galaxy Scd pec:</b>	<b>EF,PS,LE</b>
Aug 24 2012 18"	5mm TV	VF,VS,R,NND,AV2,R=P	
<b>NGC 262</b>		<b>Galaxy SA(s)0/a:</b>	<b>EF,VS,R,V DIFFIC</b>
Oct 30 2005 31"	17mmT4	MF,ML,R,NND,R=F	
<b>NGC 272</b>		<b>Open Cluster 9.0 asterism</b>	<b>CL,L,LC</b>
Nov 08 2010 12"	5.5mmN	PF,VS,R=F,FISHHOOK	
<b>NGC 317B</b>		<b>Galaxy SB?</b>	
Nov 10 2012 18"	7mm TV	VF,VS,PEXT,UB,NND,R=F	
<b>NGC 393</b>	<b>H54-1</b>	<b>Galaxy S0-:</b>	<b>F,VS,VLE,GBM,4S*NR</b>
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,FNUC,MSB,R=G,PA=75	
<b>NGC 404</b>	<b>H224-2</b>	<b>Galaxy SA(s)0-:</b>	<b>PB,CL,R,GBM,</b>
Sep 26 2019 12"	11mmT6		
Oct 05 2016 12"	8mm Et	PF,S,R,UB,NND,R=F	
Dec 01 2004 31"	11mmT6	MB,OVAL,FNUC,MSB,R=G, SOLO EFFORT	

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<b>NGC 404</b> Oct 06 2004 8"	7.5mmW	<b>H224-2</b> VB,EL,OVAL,FNUC,R=G	<b>Galaxy SA(s)0-:</b>	<b>PB,CL,R,GBM,</b>
<b>NGC 425</b> Nov 08 2010 12"	5.5mmN	VF,CS,R,UB,NND,AV1,R=F	<b>Galaxy S?</b>	<b>VF,VS,R,LBM,*11ATT</b>
<b>NGC 477</b> Oct 30 2005 31"	17mmT4	<b>H577-3</b> MF,ML,OVAL,NND,R=F	<b>Galaxy SAB(s)c</b>	<b>VF,PS,VLE,VGLBM</b>
<b>NGC 513</b> Nov 10 2007 31"	17mmT4	<b>H169-3</b> PB,PS,OVAL,FNUC,R=F	<b>Galaxy S?</b>	<b>F,S,STELLAR</b>
<b>NGC 523</b> Nov 08 2010 12"	5.5mmN	<b>H170-3</b> CF,CS,EON,UB,NND,AV1,R=F	<b>Galaxy Pec</b>	<b>DNEB,VF,VS,DIST30"</b>
<b>NGC 528</b> Sep 12 2010 12"	5.5mmN	PF,CS,OVAL,MEXT,FNUC,R=F,PA=90	<b>Galaxy S0</b>	<b>F,PL,R,LBM</b>
<b>NGC 529</b> Dec 01 2004 31" Nov 03 2004 8" Oct 17 2004 8"	11mmT6 11mmT6 7.5mmW	MB,EL,FNUC,MSB,R=G, VF,OVAL,NND,AV,R=F MF,OVAL,NND,AV,R=F	<b>Galaxy S0-:</b> SOLO EFFORT	<b>PB,VS,SBM,P OF 2</b>
<b>NGC 531</b> Dec 01 2004 31"	11mmT6	MB,EL,PATCH,NND,R=G, SOLO EFFORT	<b>Galaxy SB0/a:</b>	<b>F,S,R</b>
<b>NGC 536</b> Dec 01 2004 31" Nov 03 2004 8" Oct 17 2004 8"	11mmT6 11mmT6 7.5mmW	MB,OVAL,FNUC,MSB,R=G, VF,EL,NND,AV,R=F VF,EL,NND,AV,R=F	<b>Galaxy SB(r)b</b> SOLO EFFORT	<b>PB,PL,GBM,F OF 2</b>
<b>NGC 551</b> Sep 12 2010 12"	5.5mmN	<b>H560-3</b> VF,PS,EON,NND,AF,R=P,PA=175	<b>Galaxy SBbc</b>	<b>VF,S,E,VGLBM,*13NR</b>
<b>NGC 561</b> Oct 07 2010 12"	5.5mmN	CF,PS,R,UB,NND,R=F	<b>Galaxy (R)SB(s)a</b>	<b>EF,PL,R</b>
<b>NGC 590</b> Nov 08 2010 12"	5.5mmN	CF,PS,OVAL,PEXT,UB,NND,R=F,PA=30	<b>Galaxy SBa</b>	<b>F,VS,(RR)</b>
<b>NGC 591</b> Nov 08 2010 12"	5.5mmN	PF,CS,R,UB,NND,R=F	<b>Galaxy (R')SB0/a</b>	<b>EF,PS,R,LBM,B*SF</b>
<b>NGC 605</b> Oct 07 2010 12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=10	<b>Galaxy S0</b>	<b>VF,VS,R,BM</b>
<b>NGC 620</b>			<b>Galaxy Pec</b>	<b>EF,VS,R,LBM</b>

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<b>NGC 620</b>			<b>Galaxy Pec</b>	<b>EF,VS,R,LBM</b>
Oct 07 2010	12"	5.5mmN	CF,PS,R,UB,NND,R=F,AV-1	
<b>NGC 668</b>			<b>Galaxy Sb</b>	<b>PF,PS,R,GBM</b>
Oct 07 2010	12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=70	
<b>NGC 679</b>			<b>H175-3</b>	<b>Galaxy S0-:</b>
Oct 07 2010	12"	5.5mmN	PF,PS,R,FNUC,R=F	<b>F,STELLAR</b>
<b>NGC 687</b>			<b>H561-3</b>	<b>Galaxy S0</b>
Oct 07 2010	12"	7mm TV	CF,PS,R,UB,NND,R=F	<b>VF,STELLAR</b>
<b>NGC 703</b>			<b>H562-3</b>	<b>Galaxy S0-:</b>
Oct 07 2010	12"	7mm TV	CF,PS,OVAL,NND,R=F,PA=90	<b>VF,VS,R,1ST OF 4</b>
<b>NGC 704</b>			<b>H563-3</b>	<b>Galaxy S0</b>
Oct 07 2010	12"	7mm TV	CF,CS,R,UB,NND,R=F	<b>VF,VS,R,2ND OF 4</b>
<b>NGC 708</b>			<b>H565-3</b>	<b>Galaxy E</b>
Oct 07 2010	12"	7mm TV	PF,PS,R,NND,R=F	<b>F,PL,BM,4TH OF 4</b>
<b>NGC 710</b>			<b>Galaxy Scd:</b>	<b>VF,PS,2*S</b>
Oct 07 2010	12"	5.5mmN	VF,PS,OVAL,UB,NND,R=F,AV-3,PA=115	
<b>NGC 712</b>			<b>Galaxy S0</b>	<b>VF,R,AM PB ST</b>
Oct 07 2010	12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F,PA=95	
<b>NGC 714</b>			<b>Galaxy S0/a</b>	<b>F,VS,R,2*13P\$NR</b>
Oct 07 2010	12"	5.5mmN	PF,CS,EON,UB,NND,R=F,PA=170	
<b>NGC 717</b>			<b>Galaxy S0/a</b>	<b>VF,PS,*15SF1'</b>
Oct 07 2010	12"	5.5mmN	PF,CS,EON,UB,NND,R=F,AV-4,PA=170	
<b>NGC 721</b>			<b>Galaxy SB(rs)bc</b>	<b>EF,PL</b>
Oct 07 2010	12"	5.5mmN	VF,PS,OVAL,UB,NND,R=F,AV-5,PA=10	
<b>NGC 732</b>			<b>Galaxy S0</b>	<b>VF*IN VF,VS,R,NEBY</b>
Oct 07 2010	12"	5.5mmN	VF,PS,OVAL,UB,NND,R=F,AV-1,PA=70	
<b>NGC 746</b>			<b>Galaxy Im</b>	<b>VF,PS,LE,SEV*NR</b>
Oct 07 2010	12"	5.5mmN	VF,PS,OVAL,MEXT,UB,NND,R=F,AV-2,PA=115	
<b>NGC 752</b>			<b>H32-7</b>	<b>Open Cluster 8.0 II 2 r</b>
Nov 26 2006	1.9"	12x50	B,L,LOOSE,RESOLVE 4-5 STARS,R=F	<b>CL,VVL,RI,*L\$SC</b>
Oct 29 2006	8"	19mmW	50+STARS,R,R=G	
Oct 06 2004	8"	7.5mmW	EB,R,UB,R=G	



## Andromeda - Daughter of Cassiopeia

<b>NGC 753</b>			<b>Galaxy SAB(rs)bc</b>	<b>PB,PL,R,GMBM</b>
Sep 26 2019 12"	11mmT6			
Oct 10 2004 8"	11mmT6	VF, OVAL,NND,AV,R=F		
<b>NGC 759</b>			<b>Galaxy E</b>	<b>CL,VS,R</b>
Nov 08 2010 12"	5.5mmN	CF,CS,R,NND,AV1,R=F		
Oct 07 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F		
<b>NGC 797</b>		<b>H566-3</b>	<b>Galaxy SAB(s)a</b>	<b>VF,S,IR,SBM,*NR</b>
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 812</b>			<b>Galaxy S pec</b>	<b>EF,PL,E45,BM</b>
Oct 17 2004 8"	7.5mmW	MF,EL,NND,AV,R=F		
<b>NGC 818</b>		<b>H604-2</b>	<b>Galaxy SABc:</b>	<b>PB,CL,LE,MBM</b>
Nov 21 2006 8"	11mmT6	VF,S,OVAL,NND,AV,R=F		
<b>NGC 828</b>		<b>H605-2</b>	<b>Galaxy Sa: pec</b>	<b>PB,S,IR,D*F15S</b>
Nov 21 2006 8"	11mmT6	VF,S,OVAL,NND,AV,R=F		
<b>NGC 834</b>		<b>H567-3</b>	<b>Galaxy S?</b>	<b>VF,S,LE</b>
Nov 08 2010 12"	5.5mmN	PF,PS,OVAL,UB,NND,R=F,PA=90		
<b>NGC 841</b>			<b>Galaxy (R')SAB(s)ab</b>	<b>PB,VS,MBMN=*13,14</b>
Nov 21 2006 8"	11mmT6	VF,L,OVAL,NND,AV,R=F		
<b>NGC 845</b>		<b>H604-3</b>	<b>Galaxy Sb</b>	<b>VF,IF,STELLAR</b>
Oct 10 2012 18"	8.8 ES	F,S,EON,UB,ND,R=F		
<b>NGC 847</b>			<b>Galaxy SB(rs)ab</b>	<b>VF,PL,R</b>
Nov 08 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
<b>NGC 891</b>		<b>H19-5</b>	<b>Galaxy SA(s)b? sp</b>	<b>B,VL,VME22</b>
Sep 26 2019 12"	11mmT6			
Oct 12 2012 18"	17mmT4	DARK DUST LANE BISECTING GALAXY. JOHN'S 20" OBSESSION		
Oct 07 2010 12"	11mmT6	PF,S,EON,UB,NND,R=F,PA=85		
Oct 27 2004 31"	31mmT5	VB,ML,EON,HISB,R=E, LUNAR ECLIPSE		
Oct 06 2004 8"	11mmT6	MB,EL,EON,NND,R=G		
<b>NGC 898</b>		<b>H570-3</b>	<b>Galaxy Sab sp</b>	<b>EF,VS,LE</b>
Nov 08 2010 12"	5.5mmN	PF,PS,EON,FNUC,R=F,PA=45		
<b>NGC 906</b>			<b>Galaxy SBab</b>	<b>EF,IE,</b>
Nov 08 2010 12"	5.5mmN	CF,PS,R,UB,NND,R=F		
Oct 07 2010 12"	7mm TV	VF,VS,R,UB,NND,R=F,AV-4		
<b>NGC 909</b>			<b>Galaxy E</b>	<b>VF,VS,VS*INV</b>

## Andromeda - Daughter of Cassiopeia

<b>NGC 909</b>			<b>Galaxy E</b>	<b>VF,VS,VS*INV</b>
Oct 10 2012	18"	8.8 ES	F,S,R,FNUC,R=G	
<b>NGC 910</b>			<b>H571-3 Galaxy E+</b>	<b>VF,PS,STELLAR</b>
Oct 30 2005	31"	17mmT4	VB,ML,R,FNUC,MSB,R=G	
<b>NGC 911</b>			<b>Galaxy E</b>	<b>EF,VS,R,BM</b>
Oct 30 2005	31"	17mmT4	MB,ML,EL,FNUC,MSB,R=G	
<b>NGC 912</b>			<b>Galaxy E</b>	<b>F,VS,R,BM</b>
Oct 10 2012	18"	8.8 ES	PR,PS,R,UB,NND,R=F	
<b>NGC 914</b>			<b>Galaxy SA(s)c</b>	<b>EF,PL,DIF</b>
Nov 08 2010	12"	5.5mmN	VF,PS,OVAL,NND,R=F	
<b>NGC 920</b>			<b>Galaxy (R')SB(s)ab</b>	<b>EF,ES,R,1OR2EF* NR</b>
Oct 10 2012	18"	8.8 ES	DIFF,PF,S,OVAL,MEXT,UB,NND,R=F	
<b>NGC 923</b>			<b>Galaxy Sb:</b>	<b>VF,S,R,GSBM</b>
Oct 10 2012	18"	8.8 ES	PF,PS,R,UB,NND,R=F	
<b>NGC 933</b>			<b>Galaxy S?</b>	<b>EF,ES,R,B*NF</b>
Oct 10 2012	18"	8.8 ES	PF,PS,OVAL,UB,FNUC,R=G	
<b>NGC 937</b>			<b>Galaxy SBcd?</b>	<b>VF*SLIGHTLYNEBULOUS</b>
Oct 10 2012	18"	8.8 ES	PF,PS,OVAL,MEXT,FNUC,R=G	
<b>NGC 946</b>			<b>Galaxy S0:</b>	<b>F,S,R,GLBM</b>
Oct 10 2012	18"	8.8 ES	F,PS,OVAL,FNUC,R=F	
<b>NGC 956</b>			<b>Open Cluster 9.0 IV 2 m</b>	<b>CL,PRI,*9...15</b>
Oct 29 2006	8"	19mmW	F,S,COARSE,R,R=F	
Oct 10 2004	8"	11mmT6	SMALL OPEN CLUSTER, FEW STARS	
<b>NGC 980</b>			<b>H572-3 Galaxy S0</b>	<b>VF,PS,SP OF 2</b>
Nov 08 2010	12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=180	
Oct 07 2010	12"	7mm TV	VF,CS,OVAL,PEXT,UB,NND,R=F,AV-2,PA=170	
<b>NGC 982</b>			<b>H573-3 Galaxy Sa</b>	<b>F,S,NF OF 2</b>
Nov 08 2010	12"	5.5mmN	PF,PS,OVAL,PEXT,UB,NND,R=F,PA=15	
Oct 07 2010	12"	7mm TV	CF,CS,OVAL,PEXT,UB,NND,R=F,PA=10	
<b>NGC 995</b>			<b>Galaxy S0</b>	<b>VF,VS</b>
Oct 10 2012	18"	8.8 ES	F,S,OVAL,UB,NND,R=F	
<b>NGC 996</b>			<b>Galaxy E</b>	<b>VF,VS</b>
Oct 10 2012	18"	8.8 ES	F,S,R,FNUC,R=F	

## Andromeda - Daughter of Cassiopeia

<b>NGC 999</b>		<b>Galaxy (R')SAB(s)a</b>	<b>EF</b>
Oct 10 2012 18"	8.8 ES	PF,S,OVAL,UB,ND,AV1,R=F	
<b>NGC 1000</b>		<b>Galaxy C</b>	<b>VVF,PS,DIF</b>
Oct 10 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F,15.3 MAG, DIRECT VISION	
<b>NGC 7449</b>		<b>Galaxy E:</b>	<b>VF,S,R,VS*INCENTRE</b>
Aug 25 2009 16"	11mmT6	VF,CS,EON,NND,AV,R=F	
<b>NGC 7640</b>		<b>H600-2 Galaxy SB(s)c</b>	<b>CF,L,ME164,VLBM,R</b>
Oct 10 2004 8"	11mmT6	DIFF,EON,NND,LSB,R=F	
<b>NGC 7662</b>		<b>H18-4 Planetary Neb 4+3</b>	<b>PLN ORRING,VB,PS,R</b>
Oct 09 2018 12"	8mm Et	PB,S,R=G	
Oct 05 2016 12"	11mmT6	B,S,OIII,R=G. BLUE STREAK NEBULA	
Aug 21 2015 12"	8mm Ds	PRETTY SMALL USED LP2 FILTER	
Aug 24 2012 18"	5mm TV	ROUND AND BRIGHT, OIII, BLUE SNOWBALL, R=E!	
Nov 21 2006 8"	11mmT6	VB,PS,OVAL, NO CENTRAL STAR,R=G	
Aug 23 2004 8"	9mm	SMALL,FAINT. LOOK @ AGAIN LATER!	
<b>NGC 7686</b>		<b>H69-8 Open Cluster 7.0 III 2 p</b>	<b>CL,P,LC,*7...11</b>
Oct 06 2004 8"	11mmT6	EB,OVAL,HISB,R=G	
<b>NGC 7831</b>		<b>Galaxy Sb: sp</b>	<b>EF,VS,ME,VF*VNR</b>
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F	
Sep 09 2010 12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=90	
<b>NGC 7836</b>		<b>Galaxy I?</b>	<b>EF,VS,R,BET2*</b>
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>PGC 731</b>		<b>Galaxy Scd:</b>	
Oct 12 2012 18"	7mm TV	VF,VS,EON,UB,NND,AV2,R=P	
<b>PGC 1183</b>		<b>Galaxy</b>	
Oct 12 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,AV2,R=P	
<b>PGC 2458</b>		<b>Galaxy Scd:</b>	
Dec 12 2012 36"	17mmT4	VF,VS,EON,UB,NND,R=F,PA=45	
<b>PGC 4878</b>		<b>Galaxy Sc</b>	
Oct 30 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 9180</b>		<b>Galaxy SBa</b>	
Oct 30 2005 31"	17mmT4	MF,MS,EL,NND,R=F	
<b>PGC 9203</b>		<b>Galaxy C</b>	
Oct 30 2005 31"	17mmT4	MB,MS,EL,OVAL,NND,R=F	

## Andromeda - Daughter of Cassiopeia

**PGC 9983**

**Galaxy Sab**

Oct 10 2012 18" 8.8 ES F,S,EON,UB,NND,R=F,14.7 MAG, DIRECT VISION

**PGC 70598**

**Galaxy Compact**

Nov 03 2013 36" 17mmT4 VF,VS,OVAL,UB,NND,AV2,R=F

**PGC 71368**

**Galaxy Sdm**

Aug 24 2012 18" 5mm TV VF,PS,R,UB,NND,AV2,R=F

## Aquila - The Eagle

<b>ABELL 56</b>			<b>Planetary Neb 4</b>	
Jul 03 2005	8"	19mmW	DIFF,MF,VL,PATCHY,R=G	
<b>ABELL 67</b>			<b>Planetary Neb 2b</b>	
Aug 13 2010	31"	17mmT4	VF,VS,AV,R=P. NO CENTRAL STAR NOTED.	
<b>B 326</b>			<b>Galaxy</b>	
Jul 13 2007	8"	11mmT6	PB,PL,FAINT GLOW-NO FILTER,R=G	
<b>CR 401</b>			<b>Open Cluster IV2m</b>	
Jul 03 2005	8"	19mmW	VERY LOOSE GROUP, R=F	
<b>IC 1298</b>			<b>Open Cluster</b>	<b>VS CL, 6778 P 3'</b>
Sep 01 2008	31"	17mmT4	OPEN CLUSTER?? NOTHING ELSE THERE.	
<b>IC 1317</b>			<b>Galaxy E+?</b>	
Aug 31 2008	31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>IC 1327</b>			<b>Galaxy S0+?</b>	
Aug 31 2008	31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>IC 4846</b>			<b>Planetary Neb 2</b>	
Jul 19 2017	12"	11mmT6	VF,VS, R=F. LP2 FILTER	
Jul 03 2005	8"	11mmT6	VB,VS,R,R=F	
<b>MINK 1-70</b>			<b>Planetary Neb 1</b>	
Aug 12 2005	8"	7.5mmW	VF,VS,AV,R=F	
<b>NGC 6709</b>			<b>Open Cluster 9.0 IV 2 m</b>	<b>CL,PRI,LC,IF</b>
Jul 25 2017	12"	11mmT6	B,S,R=G	
Oct 29 2006	8"	19mmW	SMALLER, COMPRESSED,R=G	
Oct 08 2006	1.9"	12x50	PF,PS,R=F, LOOSE GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6724</b>			<b>Open Cluster 12.0 cluster?</b>	<b>CL</b>
Jul 25 2017	12"	11mmT6	F,PS,R=P, 12+ STARS	
Aug 18 2010	12"	11mmT6	PF,CS, R=P, TIGHT GROUP, STARS 6-8	
<b>NGC 6735</b>			<b>Open Cluster 12.0</b>	<b>CL,VL,P,ST12...</b>
Jul 25 2017	12"	11mmT6	F,S,R=F	
Jul 13 2007	8"	11mmT6	CF,CS,R=F	
<b>NGC 6738</b>			<b>Open Cluster IV 2 p</b>	<b>CL,P,LC</b>
Jul 25 2017	12"	11mmT6	F,S,R=F	
Oct 30 2007	1.9"	12x50	B,S,LOOSE GROUPD,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

## Aquila - The Eagle

<b>NGC 6741</b>		<b>Planetary Neb 4</b>	<b>PLN,STELLAR</b>
Aug 29 2019 12"	11mmT6	F,VS,R=F. LP2	
Aug 07 2016 12"	8mm Et	PF,VS,R=F. LP3. PHANTOM STREAK.	
Sep 19 2014 12"	11mmT6	PF,PS,R=F, LP-2, NO CENTRAL STAR, HOME - 9/14/14	
Jul 03 2005 8"	11mmT6	VF,ML,PATCH,AV,R=F	
<b>NGC 6749</b>		<b>Globular</b>	<b>CL,L,LC,ST L\$S</b>
Jul 26 2020 12"	8mm Et	VF,PS,R=P	
Jul 25 2017 12"	11mmT6	PF,PS,R=F. COULD NOT RESOLVE ANY STARS.	
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F	
<b>NGC 6751</b>		<b>Planetary Neb 3</b>	<b>PB,S</b>
Aug 29 2019 12"	11mmT6	F,PS,R=G. BRIGHTER, LP2	
Oct 09 2018 12"	11mmT6	F,S,R=F. NO CENTRAL STAR. LP2	
Aug 07 2016 12"	8mm Et	PF,PS,R=G. LP3 GLOWING EYE.	
Jul 03 2005 8"	11mmT6	MB,ML,R=G	
<b>NGC 6755</b>		<b>H19-7</b>	<b>Open Cluster 11.0 II 2 r</b>
Aug 29 2019 12"	17mm O	NICE COMPACT CLUSTER. R=G	<b>CL,VL,VRI,PC,,*12.14</b>
Oct 30 2007 1.9"	12x50	B,S,R=F	
Jul 08 2004 8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8	
<b>NGC 6756</b>		<b>H62-7</b>	<b>Open Cluster 13.0 I 1 m</b>
Aug 29 2019 12"	17mm O	VERY SMALL AND FAINT. R=F	<b>CL,S,RI,LC,*11...12</b>
Jul 08 2004 8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8	
<b>NGC 6760</b>		<b>Globular</b>	<b>2 19 08.6+0057</b>
Jul 26 2020 12"	8mm Et	F,S,R=F	
Jul 25 2017 12"	11mmT6	VF,VS,R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6772</b>		<b>H14-4</b>	<b>Planetary Neb 3b+2</b>
Aug 31 2008 31"	17mmT4	VF,VS,R,R=P,NO CENTRAL STAR	<b>VF,L,R,VVLBM,R</b>
<b>NGC 6775</b>		<b>Open Cluster cluster?</b>	<b>CL,P,LC,ST10...11</b>
Aug 18 2010 12"	11mmT6	PF,CS,R=P,LOOSE DISTANT GROUP, STARS 8-10	
<b>NGC 6778</b>		<b>Planetary Neb 3+3</b>	<b>S,E,ILL-DEFINED DISC</b>
Aug 31 2008 31"	17mmT4	PB,PS,R,R=G, NO CENTRAL STAR	
<b>NGC 6781</b>		<b>H743-3</b>	<b>Planetary Neb 3+3</b>
Aug 29 2019 12"	11mmT6	F,S,R=G. RESPONDED BETTER TO OIII.	<b>PLN,F,L,R,VSBM DISC</b>
Oct 09 2018 12"	11mmT6	B,L,R=G. NO CENTRAL STAR. LP2	
Aug 07 2016 12"	8mm Et	PF,PS,R=G., LP3. LITTLE RING.	
Sep 19 2014 12"	11mmT6	F,PL,OVVAL,R=G, LP-2, 3 STARS INSIDE, HOME - 9/14/14	
Sep 13 2009 12"	32mmUV	8TH OBJECT	

## Aquila - The Eagle

<b>NGC 6781</b>		<b>H743-3</b>	<b>Planetary Neb 3+3</b>	<b>PLN,F,L,R,VSBM DISC</b>
Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G	
<b>NGC 6790</b>			<b>Planetary Neb 2</b>	<b>PLN,B,ES,STELL=9.5M</b>
Aug 29 2019	12"	11mmT6	F,VS,R=F. LP2	
Oct 09 2018	12"	11mmT6	VF,VS,R=F. LP2	
Aug 07 2016	12"	8mm Et	PF,VS,R=F. LP3. EYE OF THE EAGLE	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
<b>NGC 6803</b>			<b>Planetary Neb 2a</b>	<b>PLN,STELLAR</b>
Jul 25 2017	12"	11mmT6	VF,VS,R=F USED LP2.	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
<b>NGC 6804</b>		<b>H38-6</b>	<b>Planetary Neb 4+2</b>	<b>CB,S,IR,RRR</b>
Jul 25 2017	12"	11mmT6	VF,VS,R=F. USED LP2	
Sep 13 2009	12"	32mmUV	9TH OBJECT	
Jul 03 2005	8"	11mmT6	VF,ML,AV,R=F	
<b>NGC 6807</b>			<b>Planetary Neb 2</b>	<b>PLN,STELLAR</b>
Aug 31 2008	31"	17mmT4	CF,CS,R,R=P, NO CENTRAL STAR	
<b>NGC 6814</b>		<b>H744-3</b>	<b>Galaxy SAB(rs)bc</b>	<b>PF,PL,R,BM,R</b>
Jul 26 2020	12"	8mm Et	PF,PS,R,UB,NND,R=P	
Jul 25 2017	12"	11mmT6	PF,PS,R,NND,R=F	
Aug 02 2005	8"	11mmT6	VF,MS,R,FNUC,R=F	
<b>NGC 6821</b>			<b>Galaxy SB(s)d:</b>	<b>F,PL,R</b>
Aug 31 2008	31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>NGC 6837</b>		<b>H18-8</b>	<b>Open Cluster IV 1 p</b>	<b>CL,S,P</b>
Aug 29 2019	12"	17mmT4	ANOTHER SMALL AND FAINT CLUSTER. R=F	
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
<b>NGC 6840</b>		<b>H19-8</b>	<b>Open Cluster 10.0 cluster?</b>	<b>CL,P,LC</b>
Aug 29 2019	12"	17mm O	BIGGER AND BRIGHTER. R=G	
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
<b>NGC 6843</b>			<b>Open Cluster 10.0 cluster?</b>	<b>CL,S,P</b>
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
<b>NGC 6852</b>			<b>Planetary Neb 4</b>	<b>F NEB,AM ST</b>
Jul 25 2017	12"	11mmT6	VF,VS,R=F. USED LP2	
Aug 13 2010	31"	17mmT4	F,PS,PATCHY,R=F. NO CENTRAL STAR NOTED.	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
<b>NGC 6858</b>			<b>Open Cluster 10.0 cluster?</b>	<b>CL,CL,E,PRI,ST13...</b>
Aug 18 2010	12"	11mmT6	PF,PS,R=F,LOOSE GROUP, STAR 10-15	

## Aquila - The Eagle

<b>NGC 6865</b>			<b>Galaxy S0</b>	<b>F,S,E</b>
Aug 31 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F		
<b>NGC 6900</b>			<b>Galaxy Sb</b>	<b>VF,S,R</b>
Aug 31 2008 31"	17mmT4	DIFF,PF,PS,OVAL,NND,R=F		
<b>NGC 6901</b>			<b>Galaxy SB(r)ab</b>	<b>EF</b>
Aug 31 2008 31"	17mmT4	CF,CS,OVAL,FNUC,R=G		
<b>NGC 6906</b>			<b>Galaxy SB(rs)bc:</b>	<b>PF,PL,R</b>
Jul 26 2020 12"	8mm Et	VF,VS,OVAL,UB,NND,R=P		
Aug 02 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
<b>NGC 6915</b>			<b>Galaxy (R')Sab?</b>	<b>PB,S,R</b>
Aug 31 2008 31"	17mmT4	PB,PS,EON,UB,NND,R=G		
<b>NGC 6922</b>			<b>Galaxy SA(rs)c pec:</b>	<b>VF,PL,R</b>
Aug 31 2008 31"	17mmT4	VF,CS,OVAL,NND,R=P		
<b>NGC 6926</b>		<b>H142-3</b>	<b>Galaxy SB(s)bc pec</b>	<b>VF,PL,E176,P OF 2</b>
Aug 31 2008 31"	17mmT4	DIFF,CF,S,OVAL,NND,R=F		
Aug 02 2005 8"	11mmT6	VF,VS,NND,AV,R=F		
<b>NGC 6929</b>			<b>Galaxy SA0+ pec:</b>	<b>VF,VS,SF OF 2</b>
Aug 31 2008 31"	17mmT4	PF,CS,R,UB,NND,R=G		
<b>NGC 6941</b>			<b>Galaxy SAB(rs)b</b>	<b>EF,LE,LBM</b>
Aug 31 2008 31"	17mmT4	DIFF,PF,S,OVAL,NND,R=P		
<b>PAL 11</b>			<b>Globular</b>	
Jul 26 2020 12"	8mm Et	VF,S,R=P		
Sep 02 2019 12"	11mmT6	VF,PS,AV,R=P		
Jul 31 2005 8"	11mmT6	DIFF, VF,ML,R,LOWSB,R=F		
<b>PGC 63912</b>			<b>Galaxy SAB(rs)c</b>	
Aug 13 2010 31"	17mmT4	CF,PS,R,UB,NND,AV,R=P		
<b>PGC 64016</b>			<b>Galaxy Sb:</b>	
Aug 13 2010 31"	17mmT4	VF,CS,OVAL,PEXT,NND,AV,R=F		
<b>PGC 64553</b>			<b>Galaxy SB(s)d:</b>	
Aug 31 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=P		
<b>PGC 64812</b>			<b>Galaxy Sb</b>	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P		
<b>PGC 64854</b>			<b>Galaxy</b>	



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**PGC 64854**

Aug 31 2008 31" 17mmT4 VF,VS,R,NND,R=F

**Galaxy**

**PGC 64864**

Aug 31 2008 31" 17mmT4 CF,CS,OVAL,NND,R=F

**Galaxy SB(rs)0/a:**

**PGC 64880**

Aug 31 2008 31" 17mmT4 VF,VS,R,NND,R=F

**Galaxy E**

**PGC 64910**

Aug 31 2008 31" 17mmT4 CF,S,OVAL,NND,R=P

**Galaxy (R')SAB(rs)bc p**

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<b>IC 1330</b>		<b>Galaxy Sc? sp</b>	
Sep 27 2005 31"	17mmT4	VB,M<EL,EON,FNUC,MSB,R=G	
<b>IC 1331</b>		<b>Galaxy (R')SB(r)0/a:</b>	
Sep 27 2005 31"	17mmT4	MB,ML,EL,EON,FNUC,MSB,R=G	
<b>IC 1341</b>		<b>Galaxy S0</b>	
Sep 27 2005 31"	17mmT4	VF,ML,OVAL,NND,R=F	
<b>IC 1342</b>		<b>Galaxy S?</b>	
Sep 27 2005 31"	17mmT4	VB,VL,OVAL,FNUC,MSB,R=G	
<b>IC 1344</b>		<b>Galaxy</b>	
Sep 27 2005 31"	17mmT4	MB,ML,EL,EON,FNUC,MSB,R=G	
<b>IC 1347</b>		<b>Galaxy S0^ pec:</b>	
Sep 27 2005 31"	17mmT4	MB,ML,R,FNUC,R=G	
<b>IC 1348</b>		<b>Galaxy</b>	<b>F, VS, R, BM</b>
Sep 27 2005 31"	17mmT4	VF,MS,R,NND,R=F	
<b>IC 1350</b>		<b>Galaxy S</b>	
Sep 27 2005 31"	17mmT4	MB,ML,R,FNUC,MSB,R=F	
<b>IC 1357</b>		<b>Galaxy (R')SB(s)a:</b>	
Sep 27 2005 31"	17mmT4	MF,ML,EL,NND,R=F	
<b>IC 1368</b>		<b>Galaxy Sa? sp</b>	
Oct 05 2005 31"	17mmT4	VF,VS,EL,EON,NND,R=F	
<b>IC 1370</b>		<b>Galaxy C</b>	
Oct 05 2005 31"	17mmT4	VF,VS,R,NND,R=F	
Oct 05 2005 31"	17mmT4	VF,VS,EL,EON,NND,R=F	
<b>IC 1373</b>		<b>Galaxy</b>	
Oct 05 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>IC 1374</b>		<b>Galaxy S</b>	
Oct 05 2005 31"	17mmT4	VF,VVS,OVAL,NND,R=F	
<b>IC 1381</b>		<b>Galaxy SB</b>	
Oct 05 2005 31"	17mmT4	EF,VS,R,NND,AV,R=F	
<b>IC 1383</b>		<b>Galaxy</b>	
Oct 05 2005 31"	17mmT4	VF,ES,R,NND,R=F	
<b>IC 1384</b>		<b>Galaxy Irr</b>	

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<b>IC 1384</b>			<b>Galaxy Irr</b>
Oct 05 2005 31"	17mmT4	VF,VS,R,NND,R=F	
<b>IC 1385</b>			<b>Galaxy SBcd</b>
Oct 05 2005 31"	17mmT4	VVF,VS,R,NND,AV,R=F	
<b>IC 1387</b>			<b>Galaxy</b>
Oct 05 2005 31"	17mmT4	F,PS,OVAL,NND,R=F	
Oct 05 2005 31"	17mmT4	VF,ML,OVAL,NND,R=F	
<b>IC 1388</b>			<b>Galaxy</b>
Oct 05 2005 31"	17mmT4	PF,VS,R,FNUC,R=F	
<b>IC 1390</b>			<b>Galaxy B R</b>
Oct 05 2005 31"	17mmT4	PF,PS,R,NND,AV,R=F	
<b>IC 1391</b>			<b>Galaxy E</b>
Oct 05 2005 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>IC 1401</b>			<b>Galaxy SAB(r)bc:</b>
Oct 05 2005 31"	17mmT4	MF,ML,EL,NND,MHISB,R=F	
<b>IC 1405</b>			<b>Galaxy SBab</b>
Oct 05 2005 31"	17mmT4	F,ML,OVAL,NND,R=F	
<b>IC 1406</b>			<b>Galaxy</b>
Oct 05 2005 31"	17mmT4	PF,VS,OVAL,NND,R=F	
<b>IC 1411</b>			<b>Galaxy E</b>
Oct 05 2005 31"	17mmT4	PB,ML,OVAL,BNUC,HISB,R=G	
<b>IC 1417</b>			<b>Galaxy Sb? sp</b>
Oct 05 2005 31"	17mmT4	PB,PL,EL,FNUC,R=G	
<b>IC 1421</b>			<b>Galaxy</b>
Oct 05 2005 31"	17mmT4	PF,PS,R,NND,R=F	
<b>IC 1433</b>			<b>Galaxy S</b>
Nov 02 2010 31"	17mmT4	CF,PS,OVAL,UB,FNUC,R=F	
<b>IC 1438</b>			<b>Galaxy (R')SAB(rs)a:</b>
Oct 31 2010 12"	5.5mmN	DIFF,CF,PS,R,UB,NND,R=F	
<b>IC 1495</b>			<b>Galaxy Sb</b>
Oct 09 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
<b>IC 5050</b>			<b>Galaxy SAB(r)b:</b>

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<b>IC 5050</b>		<b>Galaxy SAB(r)b:</b>
Sep 27 2005 31"	17mmT4 MF,VS,OVAL,NND,R=G	
<b>IC 5090</b>		<b>Galaxy Sa pec?</b>
Sep 27 2005 31"	17mmT4 VB,ML,OVAL,RNUC,R=G	
<b>IC 5111</b>		<b>Galaxy Sa</b>
Oct 05 2005 31"	17mmT4 EF,VS,OVAL,NND,AV,R=F	
<b>MAC 2059-1421</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 2100-1425</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,FNUC,MSB,R=F	
<b>MAC 2100-1428</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2101-1315</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,ML,R,FNUC,MSB,R=G	
<b>MAC 2101-1315A</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,ML,R,FNUC,MSB,R=G	
<b>MAC 2101-1316</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,LS,R,NND,MSB,R=F	
<b>MAC 2103-1124</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2104-1122</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F, 17TH MAG.	
<b>MAC 2105-1037</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2105-1040</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2110-0351</b>		<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,ML,OVAL,FNUC,R=F	
<b>MAC 2116-0046</b>		<b>Galaxy</b>
Sep 13 2007 31"	17mmT4 VF,ES,R,NND,AV,R=F	
<b>MAC 2120-0448</b>		<b>Galaxy</b>
Oct 05 2005 31"	17mmT4 VF,VVS,R,NND,AV,R=F	

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<b>MAC 2131+0230</b>			<b>Galaxy</b>	
Sep 13 2007 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F		
<b>MAC 2142-0646</b>			<b>Galaxy</b>	
Oct 05 2005 31"	17mmT4	VVF,VS,R,NND,AV,R=F		
<b>MAC 2144-0632</b>			<b>Galaxy</b>	
Sep 13 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 2153+0008</b>			<b>Galaxy</b>	
Sep 13 2007 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>MAC 2153+0211</b>			<b>Galaxy</b>	
Oct 05 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 2159-1630</b>			<b>Galaxy</b>	
Sep 13 2007 31"	17mmT4	VF,ES,R,NND,AV,R=F		
<b>MAC 2202-0955</b>			<b>Galaxy</b>	
Oct 05 2005 31"	17mmT4	PF,VS,R,NND,R=F		
<b>NGC 6945</b>			<b>Galaxy S0-</b>	<b>PF,VS,R,MBM</b>
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
<b>NGC 6959</b>			<b>Galaxy (R)S0^ pec:</b>	<b>VF</b>
Sep 13 2007 31"	17mmT4	PB,PS,EON,UB,FNUC,R=G		
<b>NGC 6961</b>			<b>Galaxy E+ pec?</b>	<b>EF,VS</b>
Sep 13 2007 31"	17mmT4	CF,CS,R,NND,R=F		
<b>NGC 6962</b>		<b>H426-2</b>	<b>Galaxy SAB(r)ab</b>	<b>CF,S,R,BM</b>
Sep 13 2007 31"	17mmT4	CB,CL,OVAL,FNUC,MSB,R=G		
<b>NGC 6963</b>			<b>Galaxy S0^:</b>	<b>NEB*13M</b>
Sep 13 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		
<b>NGC 6964</b>		<b>H427-2</b>	<b>Galaxy E+ pec:</b>	<b>F,VS,R,BM,*14SF1/2'</b>
Sep 13 2007 31"	17mmT4	CB,CL,OVAL,FNUC,MSB,R=G		
<b>NGC 6967</b>			<b>Galaxy SB(rs)0+?</b>	<b>EF,VS,*10F50"</b>
Sep 13 2007 31"	17mmT4	CB,PL,EL,OVAL,FNUC,MSB,R=G		
<b>NGC 6968</b>			<b>Galaxy SA0- pec?</b>	<b>F,S,R,GBM,F*INV</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 6975</b>			<b>Galaxy S?</b>	<b>VF,S,(=6976)</b>
Sep 13 2007 31"	17mmT4	CF,PL,EON,NND,R=F		

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<b>NGC 6976</b>		<b>Galaxy SAB(r)bc?</b>	<b>EF,IR</b>
Sep 13 2007 31"	17mmT4	PF,PL,R,NND,R=F	
<b>NGC 6977</b>		<b>Galaxy SB(r)a pec:</b>	<b>VF,S,IR</b>
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G	
<b>NGC 6978</b>		<b>Galaxy Sb</b>	<b>VF</b>
Sep 13 2007 31"	17mmT4	CB,PL,EON,FNUC,MSB,R=G	
<b>NGC 6981</b>	<b>M72</b>	<b>Globular</b>	<b>GCL,PB,PL,R,GMCM,RRR</b>
Jun 19 2020 12"	13mmHV	PF,S,R=F	
Aug 29 2019 12"	11mmT6	PF,S,R=G	
Sep 13 2009 12"	32mmUV	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>M73</b>	<b>Open Cluster 11.1 IV 1 p</b>	<b>CL,EP,VLC,NO NEB</b>
Aug 29 2019 12"	11mmT6	5 STARS.	
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 7001</b>		<b>Galaxy SAB(rs)ab:</b>	<b>EF,S,E0</b>
Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
<b>NGC 7009</b>	<b>H1-4</b>	<b>Planetary Neb 4+6</b>	<b>PLN,VB,S,ELLIPTIC</b>
Aug 29 2019 12"	11mmT6	B,PS,R=G. LP2.	
Oct 09 2018 12"	8mm Et	B,S,R=G. NO FILTER. CAN EASILY SEE APPENDEGES	
Jul 08 2018 12"	8mm Et	B,MS,R=G. SATURN NEBULA	
Aug 21 2015 12"	8mm Ds		
Oct 29 2006 8"	19mmW	F,VS,OVAL,R=F	
Sep 27 2005 31"	17mmT4	VB,VL,OVAL,HISB,R=G!!	
Jul 08 2004 31"	17mmT4	GREAT IN THE BIG ONE!	
Jul 08 2004 8"	25mmPL	SMALL IN 8_DOBSON	
<b>NGC 7010</b>		<b>Galaxy E+ pec:</b>	<b>EF,PL,R,R</b>
Sep 13 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,R=G	
<b>NGC 7047</b>		<b>Galaxy SAB(r)b:</b>	<b>EF,VS,BIN PF</b>
Sep 13 2007 31"	17mmT4	PB,PL,EL,OVAL,UB,FNUC,R=G	
<b>NGC 7051</b>		<b>Galaxy SB(r)a pec</b>	<b>VF,R,GBM,**NR</b>
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	
<b>NGC 7065</b>		<b>Galaxy SB(r)ab?</b>	<b>VF,SBM,</b>

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<b>NGC 7065</b>			<b>Galaxy SB(r)ab?</b>	<b>VF,SBM,</b>
Sep 13 2007 31"	17mmT4	CF,PS,R,NND,AV,R=F		
<b>NGC 7065A</b>			<b>Galaxy SAB(r)c pec?</b>	
Sep 13 2007 31"	17mmT4	PF,PL,R,PATCHY,NND,R=F		
<b>NGC 7069</b>			<b>Galaxy SAB(s)0-?</b>	<b>VF,S,R,STELL</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,UB,FNUC,R=G		
<b>NGC 7077</b>			<b>Galaxy S0- pec?</b>	<b>F</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 7081</b>		<b>H859-3</b>	<b>Galaxy Sb pec?</b>	<b>F,S,R,MBM,*14S</b>
Sep 13 2007 31"	17mmT4	PB,PL,R,UB,NND,R=G		
<b>NGC 7089</b>	<b>M2</b>		<b>Globular</b>	<b>GCL,B,VL,GPMBM,RRR</b>
Aug 29 2019 12"	11mmT6	B,L,R=G,		
Oct 09 2018 12"	8mm Et	B,L,R=G		
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"	32mmUV	SAME,DIMMER, CAN'T RESOLVE INDIVIDUAL STARS		
Oct 21 2006 31"	20mmUV	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 7108</b>			<b>Galaxy E</b>	<b>VF,S,R,STELL</b>
Oct 05 2005 31"	17mmT4	F,ML,OVAL,DIFF,FNUC,R=F		
<b>NGC 7120</b>			<b>Galaxy Sb</b>	<b>VF,S,VLE</b>
Sep 13 2007 31"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F		
<b>NGC 7121</b>			<b>Galaxy SB(r)bc?</b>	<b>VF,VS,R,VLBM</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F		
<b>NGC 7164</b>			<b>Galaxy SAB(rs)0+ pec:</b>	<b>EF,R,4VF ST N</b>
Sep 13 2007 31"	17mmT4	CF,PS,OVAL,NND,R=F		
<b>NGC 7165</b>		<b>H930-3</b>	<b>Galaxy SB(r)ab</b>	<b>EF</b>
Sep 13 2007 31"	17mmT4	PB,PS,R,UB,NND,R=F		
<b>NGC 7167</b>			<b>Galaxy SB(s)c:</b>	<b>F,PS,R,VGLBM,*10F</b>
Aug 29 2019 12"	8mm Et	VF,PS,R,NND,AV1,R=P		
Sep 13 2007 31"	17mmT4	VF,PL,R,NND,AV,R=F		
Sep 05 2007 8"	11mmT6	PF,VS,R,NND,R=F		

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<b>NGC 7170</b>		<b>Galaxy SA0-?</b>	<b>VF,PS,IR,BMN,D*P36S</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G	
<b>NGC 7171</b>		<b>H692-3 Galaxy SB(rs)b</b>	<b>VF,CL,E124,VGBM</b>
Oct 05 2005 31"	17mmT4	F,PL,EL,OVAL,NND,R=F	
<b>NGC 7180</b>		<b>H693-3 Galaxy S0^?</b>	<b>VF,S,R,LBM,P OF 2</b>
Sep 13 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 7181</b>		<b>Galaxy S0^ pec:</b>	<b>EF,VS,STELLAR</b>
Sep 13 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F	
<b>NGC 7182</b>		<b>Galaxy SB(rs)0+:</b>	<b>EF,VS,STELLAR</b>
Sep 13 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 7183</b>		<b>H595-2 Galaxy S0+ pec sp</b>	<b>VF,PL,E90,LBM</b>
Sep 13 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G	
<b>NGC 7184</b>		<b>H1-2 Galaxy SB(r)c</b>	<b>PB,PL,ME64,BET3*,ER</b>
Sep 13 2007 31"	17mmT4	PB,CL,EON,FNUC,HISB,R=G	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 7185</b>		<b>Galaxy SAB(rs)0- pec?</b>	<b>VF,PL,IR,VGLBM,F OF2</b>
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	
<b>NGC 7188</b>		<b>Galaxy (R')SB(rs)bc</b>	<b>EF,PS,E,LBM</b>
Sep 13 2007 31"	17mmT4	PF,PL,EL,OVAL,NND,R=G	
<b>NGC 7189</b>		<b>Galaxy SB(rs)b pec:</b>	<b>F,S,LE</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G	
<b>NGC 7198</b>		<b>Galaxy S0 pec</b>	<b>EF,VS,STELLAR</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,BNUC,HISB,R=G	
<b>NGC 7211</b>		<b>Galaxy S0</b>	<b>EF,S,STELLAR</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,BNC,HISB,R=G	
<b>NGC 7215</b>		<b>Galaxy S0^?</b>	<b>VF,S,E</b>
Sep 13 2007 31"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F	
<b>NGC 7218</b>		<b>H897-2 Galaxy SB(rs)cd</b>	<b>PB,LE,R</b>
Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
Nov 21 2006 8"	19mmW	PF,PS,OVAL,NND,R=F	
<b>NGC 7220</b>		<b>Galaxy SAB(s)0^:</b>	<b>EF,VS,VLE,GBM,*10N3'</b>
Sep 13 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F	



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<b>NGC 7222</b>			<b>Galaxy SB(r)b</b>	<b>VF,S</b>
Sep 13 2007 31"	17mmT4	PF,PL,R,UB,NND,R=F		
<b>NGC 7247</b>			<b>Galaxy SB(s)b:</b>	<b>PF,VS,R,LBM,BD*P13S</b>
Sep 05 2007 8"	11mmT6	VF,VS,R,AV,R=F		
<b>NGC 7251</b>		<b>H933-3</b>	<b>Galaxy (R')SA(rs)a?</b>	<b>F,PS,R,GPMBM</b>
Sep 05 2007 8"	11mmT6	VF,VS,R,AV,R=F		
<b>NGC 7252</b>		<b>H458-3</b>	<b>Galaxy (R)SA(r)0^:</b>	<b>F,S,R,ER</b>
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 7256</b>			<b>Galaxy SBb</b>	<b>3F* IN F NEB</b>
Oct 31 2010 12"	5.5mmN	VF,VS,OVAL,PEXT,UB,NND,R=F,PA=170		
<b>NGC 7260</b>			<b>Galaxy</b>	<b>EF,PS,IR</b>
Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F		
<b>NGC 7266</b>			<b>Galaxy Sa</b>	<b>F,VS,R,ALM STELLAR</b>
Sep 13 2007 31"	17mmT4	PB,PS,R,UB,NND,R=F		
<b>NGC 7284</b>		<b>H469-2</b>	<b>Galaxy SB(s)0^ pec</b>	<b>CF,CS,LE,R,D*INV</b>
Sep 05 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 7285</b>			<b>Galaxy SB(rs)a pec</b>	<b>NEB*1'DIST FROM7284</b>
Sep 05 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 7288</b>			<b>Galaxy S0/a pec sp</b>	<b>VF,ES,STELLAR</b>
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G		
<b>NGC 7293</b>			<b>Planetary Neb 4+3</b>	<b>PF,VL,E OR BIN</b>
Aug 29 2019 12"	11mmT6	F,L,R=G. LP2		
Oct 09 2018 12"	8mm Et	F,L,R=G. LP2		
Sep 05 2010 12"	11mmT6	B,PS,R=G. CENTRAL STAR NOT NOTED. OIII FILTER ADDS DETAIL.		
Nov 09 2004 8"	11mmT6	NICE - ALMOST ROUND PATCH! LARGE.		
<b>NGC 7300</b>			<b>Galaxy SAB(rs)b:</b>	<b>VF,CS,E,VGLBM</b>
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 7302</b>		<b>H31-4</b>	<b>Galaxy SA(s)0-:</b>	<b>F,PS,R,VSMBMSN</b>
Sep 12 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F,PA=165		
<b>NGC 7309</b>		<b>H476-2</b>	<b>Galaxy SAB(rs)c</b>	<b>VF,PL,R,GLBM,R</b>
Sep 12 2010 12"	5.5mmN	VF,PS,R,UB,NND,R=F		
<b>NGC 7341</b>			<b>Galaxy SAB(r)ab:</b>	<b>PF,PS,E,LBM</b>
Oct 09 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		

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<b>NGC 7344</b>			<b>Galaxy (R')SB(r)ab</b>	<b>PF,VS,R</b>
Sep 13 2007 31"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F		
<b>NGC 7351</b>			<b>Galaxy SAB0^:</b>	<b>PF,PS,R,BM,R</b>
Sep 13 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G		
<b>NGC 7359</b>			<b>Galaxy S0^: sp</b>	<b>PF,VS,PME,BMN</b>
Oct 09 2007 8"	11mmT6	VF,VS,EL,OVAL,NND,AV,R=F		
<b>NGC 7364</b>		<b>H442-2</b>	<b>Galaxy S0/a pec:</b>	<b>F,S,R,PSBM</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 7365</b>			<b>Galaxy SA(rs)0-:</b>	<b>VF,ES,R,GBMN,*11NF4'</b>
Oct 31 2010 12"	5.5mmN	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 7371</b>		<b>H477-2</b>	<b>Galaxy (R)SA(r)0/a:</b>	<b>VF,PL,R,LBM</b>
Sep 05 2007 8"	11mmT6	PF,VS,R,NND,R=F		
<b>NGC 7377</b>		<b>H598-2</b>	<b>Galaxy SA(s)0+</b>	<b>PB,S,VLE,VGMBM,*12P</b>
Nov 09 2004 8"	11mmT6	VF,EL,EON,NND,AV,R=F		
<b>NGC 7391</b>		<b>H443-2</b>	<b>Galaxy E:</b>	<b>CF,CS,R,SBM*13,*NP</b>
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,HISB,R=G		
<b>NGC 7392</b>		<b>H702-2</b>	<b>Galaxy SA(s)bc</b>	<b>PB,PS,LE120,MBM</b>
Oct 09 2007 8"	11mmT6	VF,PS,OVAL,NND,R=F		
<b>NGC 7393</b>		<b>H453-2</b>	<b>Galaxy SB(rs)c pec</b>	<b>VF,PL,LE,VGBM,R</b>
Sep 13 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F		
<b>NGC 7416</b>			<b>Galaxy SB(r)b</b>	<b>F,PL,PME,VGBM</b>
Sep 12 2010 12"	5.5mmN	CF,CS,EON,UB,NND,R=F,PA=170		
<b>NGC 7443</b>		<b>H450-2</b>	<b>Galaxy SB(s)0+: sp</b>	<b>F,VS,VLE,SMBM,ER,N-2</b>
Oct 31 2010 12"	5.5mmN	PF,PS,OVAL,PEXT,FNUC,R=F,PA=90. PAIRED WITH NGC-7444		
<b>NGC 7444</b>		<b>H451-2</b>	<b>Galaxy SB(r)0^? sp</b>	<b>F,VS,VLE,SMBM,ER,S-2</b>
Oct 31 2010 12"	5.5mmN	CF,PS,OVAL,PEXT,FNUC,R=F,PA=45. PAIRED WITH NGC-7443		
<b>NGC 7492</b>		<b>H558-3</b>	<b>Globular</b>	<b>EF,L,BET2D*</b>
Oct 05 2016 12"	11mmT6	F,PS,R=G		
Sep 05 2007 8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 7585</b>		<b>H236-2</b>	<b>Galaxy (R')SA(s)0+ pec</b>	<b>PB,PS,IR,GBM</b>
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,FNUC,R=F		
<b>NGC 7596</b>			<b>Galaxy S0</b>	<b>VF,PS,LE0,LBMN</b>

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<b>NGC 7596</b>		<b>Galaxy S0</b>	<b>VF,PS,LE0,LBMN</b>
Oct 31 2010 12"	5.5mmN	PF,CS,OVAL,PEXT,FNUC,R=F,PA=30	
<b>NGC 7600</b>		<b>H431-2</b>	<b>Galaxy S0- sp</b>
Nov 13 2007 8"	11mmT6	PF,PS,R,NND,R=F	<b>CF,S,R,PSMBM</b>
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 7606</b>		<b>H104-1</b>	<b>Galaxy SA(s)b</b>
Oct 06 2004 8"	11mmT6	MB,EL,EON,NND,R=G	<b>PF,CL,PME0</b>
<b>NGC 7721</b>		<b>H432-2</b>	<b>Galaxy SA(s)c</b>
Nov 09 2004 8"	11mmT6	VF,EL,EON,NND,AV,R=F	<b>PF,CL,E12,VGBM</b>
<b>NGC 7723</b>		<b>H110-1</b>	<b>Galaxy SB(r)b</b>
Oct 06 2004 8"	11mmT6	MB,OVAL,NND,R=G	<b>CB,CL,E,GMBM,R</b>
<b>NGC 7727</b>		<b>H111-1</b>	<b>Galaxy SAB(s)a pec</b>
Oct 06 2004 8"	11mmT6	MB,OVAL,FNUC,R=G	<b>PB,PL,IR,MBM</b>
<b>PGC 65308</b>		<b>Galaxy L</b>	
Sep 27 2005 31"	17mmT4	VB,ML,OVAL,FNUC,MSB,R=G	
<b>PGC 65331</b>		<b>Galaxy SBbc</b>	
Sep 27 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 65391</b>		<b>Galaxy Scd</b>	
Sep 27 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>PGC 65444</b>		<b>Galaxy SBab</b>	
Sep 13 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F	
<b>PGC 65927</b>		<b>Galaxy</b>	
Nov 02 2010 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,AV3	
<b>PGC 66242</b>		<b>Galaxy SB(rs)bc:</b>	
Sep 27 2005 31"	17mmT4	VF,VL,OVAL,PATCH,NND,R=F	
<b>PGC 66265</b>		<b>Galaxy</b>	
Sep 27 2005 31"	17mmT4	VS,VF,R,NND,R=F	
<b>PGC 66279</b>		<b>Galaxy E</b>	
Sep 27 2005 31"	17mmT4	MF,ML,R,NND,R=F	
<b>PGC 66590</b>		<b>Galaxy SBcd:</b>	
Oct 05 2005 31"	17mmT4	VF,ML,EL,NND,R=F	
<b>PGC 66904</b>		<b>Galaxy SAB(s)bc pec?</b>	

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**PGC 66904** **Galaxy SAB(s)bc pec?**  
Sep 13 2007 31" 17mmT4 CF,PL,R,NND,AV,R=F

**PGC 66940** **Galaxy S**  
Oct 05 2005 31" 17mmT4 PF,PS,R,NND,AV,R=F

**PGC 67282** **Galaxy Scd: sp**  
Sep 13 2007 31" 17mmT4 VF,PS,EON,NND,AV,R=F

**PGC 68229** **Galaxy S**  
Sep 13 2007 31" 17mmT4 PF,PS,R,NND,AV,R=F

**PGC 68240** **Galaxy**  
Sep 13 2007 31" 17mmT4 PF,PS,R,NND,R=F

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<b>IC 235</b>			<b>Galaxy Pec</b>	
Oct 30 2005	31"	17mmT4	MF,MS,R,NND,R=F	
<b>IC 238</b>			<b>Galaxy S0</b>	
Oct 30 2005	31"	17mmT4	MB,ML,EL,OVAL,RNUC,R=G	
<b>IC 248</b>			<b>Galaxy Sa:</b>	
Oct 30 2005	31"	17mmT4	MB,ML,OVAL,FNUC,R=G	
<b>IC 1809</b>			<b>Galaxy (R')SB(s)ab</b>	
Oct 30 2005	31"	17mmT4	MF,MS,OVAL,NND,R=F	
<b>IC 1817</b>			<b>Galaxy Sm</b>	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>IC 1821</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>IC 1832</b>			<b>Galaxy S0</b>	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,R=F	
<b>IC 1835</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,R=F	
<b>IC 1838</b>			<b>Galaxy S</b>	
Oct 30 2005	31"	17mmT4	VF,ML,OVAL,NND,R=F	
<b>IC 1839</b>			<b>Galaxy Sb-c</b>	
Oct 30 2005	31"	17mmT4	MF,MS,EL,NND,R=F	
<b>IC 1841</b>			<b>Galaxy SBb</b>	
Oct 30 2005	31"	17mmT4	MF,MS,OVAL,NND,R=F	
<b>IC 1842</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	MF,MS,EL,NND,R=F	
<b>IC 1847</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>MAC 0244+1924</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,R=F	
<b>MAC 0245+1855</b>			<b>Galaxy</b>	
Oct 30 2005	31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 680</b>		<b>H229-2</b>	<b>Galaxy E+ pec:</b>	<b>PB,S,IR,MBM,F OF 2</b>
Nov 21 2006	8"	11mmT6	PF,S,OVAL,NND,R=F	

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<b>NGC 691</b> Sep 04 2005 8"	7.5mmW	<b>H617-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(rs)bc</b>	<b>F,CL,VGLBM</b>
<b>NGC 697</b> Sep 04 2005 8"	11mmT6	<b>H179-3</b> VF,VS,EL,NND,AV,R=F	<b>Galaxy SAB(r)c:</b>	<b>F,CL,E,MBM</b>
<b>NGC 722</b> Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Galaxy S?</b>	<b>VF,VS,R,BETA ARI N</b>
<b>NGC 772</b> Dec 04 2004 8" Nov 03 2004 8"	11mmT6 11mmT6	MB,EL,OVAL,NND,MSB,R=G MF,EL,OVAL,NND,R=F	<b>Galaxy SA(s)b</b>	<b>B,CL,R,GBM,R</b>
<b>NGC 821</b> Sep 04 2005 8"	11mmT6	<b>H152-1</b> MF,MS,OVAL,FNUC,R=G	<b>Galaxy E6?</b>	<b>PB,VS,VLE,SVMBM,*NP</b>
<b>NGC 877</b> Nov 21 2006 8"	11mmT6	<b>H246-2</b> PF,L,OVAL,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>PF,PL,LE,PGBM,</b>
<b>NGC 972</b> Nov 21 2006 8"	11mmT6	<b>H211-2</b> VF,L,OVAL,NND,R=F	<b>Galaxy Sab</b>	<b>PB,CL,LE,GMBM,3*S</b>
<b>NGC 976</b> Nov 21 2006 8"	11mmT6	<b>Galaxy SA(rs)c:</b> VF,S,OVAL,NND,AV,R=F		<b>VF,VS,4F * NR</b>
<b>NGC 1012</b> Sep 04 2005 8"	11mmT6	<b>H152-3</b> MF,MS,OVARL,NND,R=F	<b>Galaxy S0/a?</b>	<b>F,PS,IR,BM,ST INV</b>
<b>NGC 1024</b> Sep 04 2005 8"	11mmT6	<b>H592-2</b> MF,ML,OVAL,NND,AV,R=F	<b>Galaxy (R')SA(r)ab</b>	<b>PF,S,LE,BM,*11NF 1'</b>
<b>NGC 1036</b> Oct 30 2005 31"	17mmT4	<b>H475-3</b> MB,ML,OVAL,NND,R=G	<b>Galaxy Pec?</b>	<b>F,S,R,LBM</b>
<b>NGC 1156</b> Sep 04 2005 8"	7.5mmW	<b>H619-2</b> VF,ML,OVAL,NND,AV,R=F	<b>Galaxy IB(s)m</b>	<b>PB,CL,PME0,BET2*</b>
<b>PGC 8964</b> Dec 12 2012 36"	17mmT4	<b>Galaxy Sd</b> VF,VS,EON,NND,AV,R=P,PA=155		
<b>PGC 9638</b> Dec 12 2012 36"	17mmT4	<b>Galaxy Scd:</b> VS,PS,EON,NND,AV,R=F,PA=90		
<b>PGC 9764</b> Oct 30 2005 31"	17mmT4	<b>Galaxy S</b> VF,MS,EL,NND,R=F		
<b>PGC 9888</b>		<b>Galaxy Scd:</b>		

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**PGC 9888**

Dec 12 2012 36" 17mmT4 PF,PS,EON,NND,R=F,PA=120

**Galaxy Scd:**

**PGC 10044**

Oct 25 2006 31" 17mmT4 PF,PS,OVAL,NND,R=F

**Galaxy IB(s)m pec**

**PGC 10046**

Oct 25 2006 31" 17mmT4 PB,S,EON,FNUC,R=G

**Galaxy SB0/a: sp**

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<b>CR 62</b>		<b>Galaxy IV3p</b>	
Dec 28 2006 1.9"	12x50	PF,S,PATCHY,UNRESOLVED,R=F	
<b>IC 405</b>		<b>Nebula E</b>	
Dec 07 2005 8"	11mmT6	DARK DUSTLANE LOW SURFACE BRIGHTNESS	
<b>IC 410</b>		<b>Nebula E</b>	<b>DIF, MANY ST INV</b>
Nov 26 2006 1.9"	19mmW	NEBULA ASSOCIATED WITH NGC 1893	
Nov 21 2006 8"	11mmT6	PB,L,IRREGULARSHAPE,R=G	
Jan 26 2006 8"	19mmW	NEBULA ASSOCIATED WITH NGC 1893	
<b>IC 2120</b>		<b>Planetary Neb Planetary?</b>	<b>5 18.2 +37 36</b>
Nov 21 2006 8"	11mmT6	VF,VS,AV,R=F	
<b>IC 2149</b>		<b>Planetary Neb 3b+2</b>	
Nov 11 2009 12"	7.5mmW	PB,PS,R=G, NO CENTRAL STAR NOTED	
<b>NGC 1664</b>		<b>H59-8</b>	<b>Open Cluster 10.0 III 1 p</b>
Dec 28 2006 1.9"	12x50	F,S,PATCHY,AV,UNRESOLVED,R=F	<b>CL,LRI,LC,PL</b>
Jan 26 2006 8"	19mmW	R=F,NOT TOO BAD	
<b>NGC 1778</b>		<b>H61-8</b>	<b>Open Cluster 10.1 III 2 p</b>
Dec 28 2006 1.9"	12x50	PF,PS,PATCHY,AV,UNRESOLVED,R=F	<b>CL,PC,LRI,IF,ST L</b>
Jan 26 2006 8"	19mmW	R=P FEW STARS	
<b>NGC 1857</b>		<b>H33-7</b>	<b>Open Cluster 11.0 I 3 m</b>
Dec 28 2006 1.9"	12x50	F,S,PATCHY,UNRESOLVED,R=F	<b>CL,PRI,PC,ST7...</b>
Jan 26 2006 8"	19mmW	R=P, FEW STARS	
<b>NGC 1883</b>		<b>H34-7</b>	<b>Open Cluster 14.0 II 1 m</b>
Jan 26 2006 8"	19mmW	R=F, FAINT TIGHT GROUP	<b>CL,VF,PRI,PC,IF</b>
<b>NGC 1893</b>			<b>Open Cluster 9.3 II 3 r n</b>
Nov 26 2006 1.9"	12x50	F,S,R=F	<b>CL,L,RI,LC</b>
Jan 26 2006 8"	19mmW	R=F,DECENT *STARS	
<b>NGC 1907</b>		<b>H39-7</b>	<b>Open Cluster 11.0 I 1 m n</b>
Jan 25 2018 12"	11mmT6	NICE OBJECT	<b>CL,PRI,PC,R,ST9...12</b>
Oct 02 2006 1.9"	12x50	CB,CS,R=F.	
Jan 26 2006 8"	19mmW	R=G, SMALL, TIGHT, BRIGHT	
<b>NGC 1912</b>	<b>M38</b>		<b>Open Cluster 8.0 II 2 r</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING.	<b>CL,B,VL,VRI,IF,STL\$\$</b>
Jan 25 2018 12"	11mmT6	NICE OBJECT	
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	



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<b>NGC 1912</b>	<b>M38</b>	<b>Open Cluster 8.0 II 2 r</b>	<b>CL,B,VL,VRI,IF,STL\$\$</b>
Dec 16 2009 12"	20mmUV		
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	

<b>NGC 1931</b>	<b>H261-1</b>	<b>Open Cluster I 3 p n</b>	<b>VB,L,R,B***IN M</b>
Nov 03 2004 8"	7.5mmW	NICE CLUSTER	

<b>NGC 1960</b>	<b>M36</b>	<b>Open Cluster 9.0 I 3 r</b>	<b>CL,B,VL,VRI,CL,*9.11</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
Jan 25 2018 12"	11mmT6	HEATERS WORKED. EVERYTHING WORKED	
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"	20mmUV		
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 1985</b>	<b>H865-3</b>	<b>Nebula R</b>	<b>CF,S,R,PSBM</b>
Nov 21 2006 8"	11mmT6	F,S,R=P	

<b>NGC 2099</b>	<b>M37</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,RI,PCM,ST L\$\$</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
Jan 25 2018 12"	11mmT6	1ST LIGHT. 1ST OBJECT	
Jul 25 2017 12"	11mmT6	1ST LIGHT - 1ST OBJECT. ALL EYEPIECES CAME INTO FOCUS	
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"	20mmUV		
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	

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<b>NGC 2099</b>	<b>M37</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,RI,PCM,ST L\$\$</b>
Dec 26 2003 8"	25mmPL Q/M COLD		
<b>NGC 2126</b>	<b>H68-8</b>	<b>Open Cluster 13.0 III 2 m</b>	<b>CL,NOT RI,*7M NORTH</b>
Jan 26 2006 8"	19mmW R=F, SMALL, LOOSE , GROUP		
<b>NGC 2192</b>	<b>H57-7</b>	<b>Open Cluster 14.0 II 2 m</b>	<b>CL,CL,C,IF,ST VS</b>
Jan 26 2006 8"	19mmW R=F, SMALL, LOOSE , GROUP		
<b>NGC 2281</b>	<b>H71-8</b>	<b>Open Cluster 8.0 I 3 m</b>	<b>CL,PRI,VLC,ST PL</b>
Nov 26 2006 1.9"	12x50 B,S,RESOLVE 4-5+,R=G		
Nov 09 2006 8"	19mmW F,PS,R=F		
Apr 05 2004 8"	25mmPL FULLMOON - **MEGASTAR CONTROL**		
<b>PAL 2</b>		<b>Globular</b>	
Feb 21 2020 36"	17mmT4 FAINT, SMALL, SMUDGE. COULD NOT RESOLVE STARS. R=G		

## Bootes - The Herdsman

<b>IC 982</b>			<b>Galaxy SA0+</b>	
May 22 2006 31"	19mmW	F,CS,R,NND,R=F		
<b>IC 983</b>			<b>Galaxy SB(r)bc</b>	
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
May 22 2006 31"	19mmW	VF,PL,OVAL,PATCHY,NND,R=F		
<b>IC 1029</b>			<b>Galaxy SAb: sp</b>	
Jun 19 2020 12"	8mm Et	F,S,EON,UB,NND,R=G		
<b>MAC 1423+4015</b>			<b>Galaxy</b>	
May 22 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
<b>MAC 1432+3557</b>			<b>Galaxy</b>	
Jun 05 2011 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F		
<b>MAC 1432+3601</b>			<b>Galaxy</b>	
Jun 05 2011 31"	17mmT4	VF,VS,OVAL,UB,NND,AV,R=P		
<b>NGC 5248</b>		<b>H34-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,L,E150,PSBMRN</b>
Jun 03 2019 12"	8mm Et	PF,PS,R,FNUC,R=F		
Jul 01 2016 12"	8mm Et	MB,ML,OVAL, FNUC,R=G		
May 04 2005 8"	11mmT6	MB,ML,OVAL,FNUC,R=G		
<b>NGC 5293</b>		<b>H6-5</b>	<b>Galaxy SA(r)c</b>	<b>EF,VL,RESOLVABLE</b>
Jul 05 2016 12"	8mm Et	VF,VS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5332</b>			<b>Galaxy S0-:</b>	<b>VF,S,R</b>
Jul 05 2016 12"	8mm Et	VF,VS,R,UB,NND,R=F		
<b>NGC 5414</b>			<b>Galaxy S?</b>	<b>S,F*CENTRE,*10,11NF</b>
Jul 05 2016 12"	8mm Et	VF,VS,R,UB,NND,R=F		
<b>NGC 5416</b>		<b>H56-3</b>	<b>Galaxy Scd:</b>	<b>EF,VS,E,R</b>
Jul 05 2016 12"	8mm Et	VF,VS,R,UB,NND,R=F		
<b>NGC 5417</b>		<b>H11-3</b>	<b>Galaxy Sa</b>	<b>CF,S,R,PSBM,*P</b>
Jul 05 2016 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5423</b>			<b>Galaxy S0-:</b>	<b>VF,R,*IN CENTRE</b>
Jul 05 2016 12"	7mm TV	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 5434A</b>			<b>Non-Existent</b>	
Jul 05 2016 12"	7mm TV	VVF,VS,EON,UB,NND,R=F,AV2		
<b>NGC 5434B</b>			<b>Galaxy Sc</b>	
Jul 05 2016 12"	7mm TV	VVF,VS,EON,UB,NND,R=F,AV2		

## Bootes - The Herdsman

<b>NGC 5466</b>		<b>H9-6</b>	<b>Globular</b>	<b>CL,L,VRI,VMC,ST11...</b>
May 30 2016 12"	8mm Et	VF,S,R=G		
May 04 2005 8"	11mmT6	VF,R,R=F		
<b>NGC 5490</b>		<b>H32-3</b>	<b>Galaxy E</b>	<b>CF,CS,R,SBMF**</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 5490C</b>			<b>Galaxy SB(s)bc</b>	
May 22 2006 31"	19mmW	PB,PS,OVAL,FNUC,R=G		
May 22 2006 31"	19mmW	F,CS,OVAL,NND,R=F		
<b>NGC 5492</b>		<b>H876-2</b>	<b>Galaxy Sb pec?</b>	<b>PB,VS,E</b>
Jun 03 2005 31"	11mmT6	MB,ML,EL,EON,NND,R=G		
<b>NGC 5497</b>			<b>Galaxy SB(s)b</b>	<b>EF,S,R,LBM</b>
May 22 2006 31"	19mmW	F,S,OVL,NND,R=F		
<b>NGC 5504A</b>			<b>Non-Existent</b>	
Jul 05 2016 12"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 5509</b>			<b>Galaxy E/S0</b>	<b>VF,S,R,STELLAR NUCL</b>
Jun 03 2005 31"	11mmT6	MB,VS,OVAL,NND,R=F		
<b>NGC 5513</b>		<b>H877-2</b>	<b>Galaxy S0</b>	<b>PB,PL,IR</b>
Jun 03 2005 31"	11mmT6	MB,MS,EL,FNUC,MSB,R=G		
<b>NGC 5515</b>		<b>H685-3</b>	<b>Galaxy Sab</b>	<b>VF,S,VLE</b>
Jul 05 2016 12"	7mm TV	VF,VS,OVAL,UB,NND,AV,R=F		
<b>NGC 5520</b>		<b>H676-3</b>	<b>Galaxy Sb</b>	<b>F,S,LE,STELLAR</b>
Apr 29 2011 12"	7mm TV	PF,PS,OVAL,MEXT,FNUC,R=F		
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 5523</b>		<b>H134-3</b>	<b>Galaxy SA(s)cd:</b>	<b>F,PL,PME90,*10NP</b>
May 21 2009 16"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 5529</b>		<b>H414-3</b>	<b>Galaxy Sc: sp</b>	<b>CF,PL,VME110,VGVMBM</b>
Apr 26 2009 16"	11mmT6	CF,CS,EON,UB,NND,R=F		
May 13 2007 8"	11mmT6	VF,PS,EON,NND,AV,R=F		
<b>NGC 5532</b>		<b>H47-3</b>	<b>Galaxy S0</b>	<b>VF,VS,R,GBM,R</b>
Jun 19 2020 12"	8mm Et	F,PS,R,UB,NND,R=G		
<b>NGC 5532A</b>			<b>Non-Existent</b>	
Jul 05 2016 12"	8mm Et	VF,VS,FNUC,R=F,PAIRED W/NGC-5532B		
<b>NGC 5532B</b>			<b>Galaxy S0</b>	

## Bootes - The Herdsman

<b>NGC 5532B</b>		<b>Galaxy S0</b>	
Jul 05 2016 12"	8mm Et	VF,VS,OVAL,UB,NND,R=F,PAIRED W/NGC-5532A	
<b>NGC 5533</b>		<b>H418-2</b>	<b>Galaxy SA(rs)ab</b>
Apr 26 2009 16"	11mmT6	PF,PS,EL,OVAL,FNUC,R=F	<b>PB,R,VSMBM,20R3*INV</b>
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F	
<b>NGC 5536</b>		<b>H731-3</b>	<b>Galaxy SBa</b>
May 22 2006 31"	19mmW	PB,CS,R,NND,R=G	<b>CF,VS,R,SP OF 2</b>
<b>NGC 5541</b>		<b>H732-3</b>	<b>Galaxy S?</b>
May 22 2006 31"	19mmW	CB,PL,OVAL,FNUC,R=G	<b>CF,S,R,GBM,NF OF 2</b>
<b>NGC 5548</b>		<b>H194-2</b>	<b>Galaxy (R')SA(s)0/a</b>
May 13 2007 8"	11mmT6	PF,PS,R,NND,R=F	<b>CF,PS,R,VSMBM*</b>
<b>NGC 5557</b>		<b>H99-1</b>	<b>Galaxy E1</b>
Mar 29 2006 8"	11mmT6	F,S,R,FNUC,R=F	<b>CB,S,R,VSMB*</b>
<b>NGC 5559</b>		<b>H347-3</b>	<b>Galaxy SBb</b>
May 04 2005 8"	11mmT6	MB,MS,OVAL,FNUC,R=G	<b>VF,S,VLE,BM</b>
<b>NGC 5580</b>		<b>Galaxy SABcd</b>	
Jul 01 2016 12"	8mm Et	PF,PS,OVAL,NND,R=F	<b>PB,S,F OF 2</b>
<b>NGC 5582</b>		<b>H754-2</b>	<b>Galaxy E</b>
Apr 29 2011 12"	7mm TV	PF,PS,OVAL,BNUC,R=G,PA=95	<b>PB,PS,R,BM FN,*SP</b>
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,NND,R=F	
<b>NGC 5587</b>		<b>H110-3</b>	<b>Galaxy S0/a</b>
Apr 29 2011 12"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F	<b>F,CS,VLE,*8SF</b>
<b>NGC 5590</b>		<b>H417-3</b>	<b>Galaxy S0</b>
Apr 26 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F	<b>CF,S,R,BM*,SF OF 2</b>
<b>NGC 5598</b>		<b>H733-3</b>	<b>Galaxy S0</b>
May 22 2006 31"	19mmW	PB,PL,OVAL,NND,R=G	<b>F,VS,R,BM</b>
<b>NGC 5600</b>		<b>H177-2</b>	<b>Galaxy Sc pec</b>
Jul 01 2016 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F	<b>PB,PS,GBM</b>
Aug 03 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 5602</b>		<b>H694-2</b>	<b>Galaxy Sa</b>
May 21 2009 16"	11mmT6	CF,PS,OVAL,NND,R=F	<b>PF,PS,LE,MBM</b>
<b>NGC 5603</b>		<b>H734-3</b>	<b>Galaxy S0</b>
May 22 2006 31"	19mmW	F,PL,R,NND,R=F	<b>CF,PS,R,GBM</b>

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<b>NGC 5611</b>			<b>Galaxy S0</b>	<b>F,S,R,BM</b>
Jul 01 2016	12"	8mm Et	VF,VS,OVAL,UB,NND,R=F	
<b>NGC 5613</b>			<b>Galaxy (R)SAB(r)0+</b>	<b>EF,PS,DIF,2'N OF5614</b>
Jun 05 2011	31"	17mmT4	CF,CS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 5614</b>			<b>H420-2 Galaxy SA(r)ab pec</b>	<b>PB,S,R,SMBM</b>
Jun 05 2011	31"	17mmT4	PF,PS,R,BNUC,R=G	
Apr 26 2009	16"	11mmT6	CF,CS,OVAL,UB,NND,R=F	
Aug 03 2008	8"	11mmT6	VF,VS,R,NND,AV,R=F	
<b>NGC 5623</b>			<b>H329-2 Galaxy E</b>	<b>CF,S,R,VSMBM,R</b>
Jul 01 2016	12"	8mm Et	VF,VS,OVAL,UB,NND,R=F	
<b>NGC 5630</b>			<b>H674-2 Galaxy Sdm:</b>	<b>F,S,E90,GBM</b>
Jul 05 2016	12"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 5633</b>			<b>H185-1 Galaxy (R)SA(rs)b</b>	<b>CB,PS,R,PGLBM</b>
Jul 01 2016	12"	8mm Et	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 5635</b>			<b>H132-3 Galaxy S pec</b>	<b>F,S,E,SBM</b>
Jul 05 2016	12"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 5646</b>			<b>Galaxy SBb:</b>	<b>EF,E SPNF,45"L</b>
Jun 05 2011	31"	17mmT4	F,S,OVAL,PEXT,UB,NND,R=F,PA=170, MAG 10 STAR AT SOUTHERN TIP	
<b>NGC 5653</b>			<b>H330-2 Galaxy (R')SA(rs)b</b>	<b>PF,PS,R,BM</b>
Aug 03 2008	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 5656</b>			<b>H421-2 Galaxy Sab</b>	<b>PF,PL,R,MBM,R</b>
Jun 05 2011	31"	17mmT4	PF,PS,R,BNUC,HSB,R=G, POSSIBLE ARM STRUCTURE DETECTED.	
<b>NGC 5660</b>			<b>H695-2 Galaxy SAB(rs)c</b>	<b>PB,L,IR,VGBM</b>
May 21 2009	16"	11mmT6	PB,PL,OVAL,FNC,R=F	
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 5665</b>			<b>H27-2 Galaxy SAB(rs)c pec?</b>	<b>PB,PL,R,GBM,R</b>
Jun 19 2020	12"	8mm Et	PF,PS,OVAL,UB,NND,R=P	
<b>NGC 5673</b>			<b>H696-2 Galaxy SBc? sp</b>	<b>F,S,CE,*15NP</b>
Jun 19 2020	12"	8mm Et	PF,S,EON,UB,NND,R=P	
<b>NGC 5675</b>			<b>H422-2 Galaxy S?</b>	<b>F,PS,E,BM</b>
Jun 05 2011	31"	17mmT4	F,S,OVAL,VEXT,FNUC,HSB,R=F,PA=40	
<b>NGC 5676</b>			<b>H189-1 Galaxy SA(rs)bc</b>	<b>B,L,E45,PGBM,R</b>
Apr 26 2006	8"	11mmT6	F,L,EL,OVAL,NND,R=F	

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<b>NGC 5676</b> May 22 2004 8"	25mmPL	<b>H189-1</b> DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(rs)bc</b>	<b>B,L,E45,PGBM,R</b>
<b>NGC 5684</b> Jun 05 2011 31"	17mmT4	<b>H421-3</b> PF,PS,R,FNUC,R=F	<b>Galaxy S0</b>	<b>F,CS,R,BM,P OF 2</b>
<b>NGC 5686</b> Jun 05 2011 31"	17mmT4	<b>H808-2</b> PF,CS,R,FNUC,R=F	<b>Galaxy Sa</b>	<b>VF,S,R,F OF 2</b>
<b>NGC 5687</b> Aug 03 2008 8"	11mmT6	<b>H808-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy S0-?</b>	<b>PF,S,IF,RESOLVA,*10F</b>
<b>NGC 5689</b> May 04 2005 8"	11mmT6	<b>H188-1</b> MB,ML,EL,FNUC,R=G	<b>Galaxy SB(s)0/a:</b>	<b>CB,PL,E87,PSMBM</b>
<b>NGC 5695</b> Jun 05 2011 31"	17mmT4	<b>H423-2</b> PF,CS,R,BNUC,R=F,DETECTED KNOT ON WEST SIDE.	<b>Galaxy S?</b>	<b>PB,CS,R,BM,R</b>
<b>NGC 5753</b> Jun 05 2011 31"	17mmT4	<b>H687-3</b> PF,PS,R,FNUC,HSB,R=G	<b>Galaxy</b>	<b>F,BM,NP5754</b>
<b>NGC 5754</b> Jun 05 2011 31"	17mmT4	<b>H687-3</b> PF,S,R,FNUC,HSB,R=G	<b>Galaxy SB(rs)b</b>	<b>CF,CS,R,BM</b>
<b>NGC 5772</b> Jun 05 2011 31"	17mmT4	<b>H650-2</b> PF,PS,OVAL,PEXT,FNUC,HSB,R=G,PA=120	<b>Galaxy SA(r)b:</b>	<b>PB,PL,LE,PSLBM,*8NP</b>
<b>NGC 5899</b> Aug 03 2008 8"	11mmT6	<b>H650-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)c</b>	<b>CB,PL,PME,SMBMN</b>
<b>PGC 50693</b> May 22 2006 31"	19mmW	<b>H650-2</b> PB,CS,EON,FNUC,R=F	<b>Galaxy S0/a</b>	
<b>PGC 50828</b> Jun 03 2005 31"	11mmT6	<b>H650-2</b> VF,MS,OVAL,NND,AV,R=F	<b>Galaxy S</b>	
<b>PGC 51372</b> May 22 2006 31"	19mmW	<b>H650-2</b> PB,PL,OVAL,FNUC,R=G	<b>Galaxy SAcD</b>	
<b>PGC 51417</b> May 22 2006 31"	19mmW	<b>H650-2</b> PB,CS,OVAL,FNUC,R=F	<b>Galaxy S0</b>	
<b>PGC 51443</b> Jun 05 2011 31"	17mmT4	<b>H650-2</b> CF,CS,R,UB,NND,R=F	<b>Galaxy L</b>	
<b>PGC 51447</b> Jun 05 2011 31"	17mmT4	<b>H650-2</b> VF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy L</b>	

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<b>PGC 51464</b>		<b>Galaxy S</b>
Jun 05 2011 31"	17mmT4	F,PS,EEXT,UB,FNUC,R=G,PA=40
<b>PGC 51470</b>		<b>Galaxy SBa</b>
Jun 05 2011 31"	17mmT4	F,CS,OVAL,VEXT,UB,NND,R=F,PA=170
<b>PGC 51477</b>		<b>Galaxy Sc</b>
Jun 05 2011 31"	17mmT4	VF,CS,OVAL,VEXT,UB,NND,R=F,PA=60
<b>PGC 51503</b>		<b>Galaxy Sd</b>
May 22 2006 31"	19mmW	F,PL,EON,NND,R=F
<b>PGC 51692</b>		<b>Galaxy SBab</b>
Jun 05 2011 31"	17mmT4	VF,CS,OVAL,UB,NND,R=G
<b>PGC 51792</b>		<b>Galaxy S</b>
Jun 05 2011 31"	17mmT4	CF,VS,OVAL,UB,NND,R=F,PAIRED W/PGC51800
<b>PGC 51800</b>		<b>Galaxy Sa</b>
Jun 05 2011 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,PAIRED WPGC51792
<b>PGC 51872</b>		<b>Galaxy Sc</b>
Jun 05 2011 31"	17mmT4	F,VS,OVAL,UB,NND,AV,R=F
<b>PGC 51881</b>		<b>Galaxy L</b>
Jun 05 2011 31"	17mmT4	F,S,R,UB,NND,R=F
<b>PGC 51928</b>		<b>Galaxy S</b>
Jun 05 2011 31"	17mmT4	CF,CS,OVAL,VEXT,UB,NND,R=F
<b>PGC 52027</b>		<b>Galaxy SBb</b>
Jun 05 2011 31"	17mmT4	DIFF,VF,CS,R,UB,NND,R=F
<b>PGC 52160</b>		<b>Galaxy S0</b>
Jun 05 2011 31"	17mmT4	PF,CS,EON,FNUC,R=F
<b>PGC 52183</b>		<b>Galaxy S0/a</b>
Jun 05 2011 31"	17mmT4	PF,CS,R,BNUC,R=G
<b>PGC 52301</b>		<b>Galaxy SBR</b>
Jun 05 2011 31"	17mmT4	VF,VS,R,UB,NND,AV,R=P
<b>PGC 52358</b>		<b>Galaxy</b>
Jun 05 2011 31"	17mmT4	VF,ES,OVAL,UB,NND,R=F
<b>PGC 52373</b>		<b>Galaxy Sc</b>
Jun 05 2011 31"	17mmT4	VF,VS,R,UB,NND,AV,R=P



## Canis Major - The Big Dog

<b>HAFF 6</b>			<b>Open Cluster IV2rn</b>	
Dec 19 2006 31"	17mmT4	PF,PS,R=F,VMCOMPRESSED		
<b>IC 456</b>			<b>Galaxy SB(rs)0^</b>	
Dec 20 2006 31"	17mmT4	PB,FL,OVAL,FNC,R=G		
<b>IC 468</b>			<b>Nebula E</b>	
Dec 19 2006 31"	31mmT5	NORTHERN PART OF NGC2359 - OIII FILTER!!!		
Dec 19 2006 31"	31mmT5	NORTHERN PART OF NGC2359 - NO FILTER		
Nov 22 2006 8"	11mmT6	F,L,IRREGULARSHAPE,R=F		
<b>IC 2163</b>			<b>Galaxy SB(rs)c pec</b>	
Dec 19 2006 31"	17mmT4	R,PL,OVAL,NND,R=F		
Feb 10 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F		
<b>IC 2165</b>			<b>Planetary Neb 3b</b>	
Dec 19 2006 31"	17mmT4	VB,PS,R=G, NO CENTRAL STAR		
<b>IC 2171</b>			<b>Galaxy IB(s)m:</b>	
Dec 19 2006 31"	17mmT4	PF,CS,OVAL,NND,R=F		
<b>NGC 2204</b>		<b>H13-7</b>	<b>Open Cluster 13.0 II 2 r</b>	<b>CL,L,PRI,LC</b>
Feb 10 2005 8"	11mmT6	DIFFUSED,ML,R,R=G		
<b>NGC 2206</b>			<b>Galaxy SAB(rs)bc:</b>	<b>F,PS,VLE,PSLBM</b>
Feb 10 2005 8"	11mmT6	VF,VS,NND,AV,R=F		
<b>NGC 2207</b>			<b>Galaxy SAB(rs)bc pec</b>	<b>PB,PL,ME87,PSLBMRN</b>
Dec 19 2006 31"	17mmT4	PB,CL,EON,BNUC,HISB,R=G		
Feb 10 2005 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
<b>NGC 2217</b>			<b>Galaxy (R)SB(rs)0+</b>	<b>VB,S,R,PSMBM,R</b>
Feb 10 2005 8"	11mmT6	MF,MS,OVAL,FNUC,R=G		
<b>NGC 2223</b>			<b>Galaxy SAB(r)b</b>	<b>F,PL,R,VGLBM,2STINV</b>
Feb 10 2005 8"	11mmT6	MF,ML,OVAL,FNUC,R=G		
<b>NGC 2227</b>			<b>Galaxy SB(rs)c</b>	<b>EF,R,** 90"P</b>
Feb 10 2005 8"	11mmT6	MB,MS,OVAL,FNUC,R=G		
<b>NGC 2243</b>			<b>Open Cluster 11.8 I 2 r</b>	<b>PB,CL,R,VGLBM,4'</b>
Feb 10 2005 8"	11mmT6	MF,MS,R,R=F, COMPACT		
<b>NGC 2263</b>			<b>Galaxy (R')SB(r)ab</b>	<b>PF,LE,BET2VS*,PSLBM</b>
Feb 10 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2272</b>			<b>Galaxy SAB(s)0-</b>	<b>PF,PS,VLE,BM,R</b>

## Canis Major - The Big Dog

<b>NGC 2272</b>		<b>Galaxy SAB(s)0-</b>	<b>PF,PS,VLE,BM,R</b>
Feb 10 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F	
<b>NGC 2280</b>		<b>Galaxy SA(s)cd</b>	<b>PF,PL,LE,GBM</b>
Feb 10 2005 8"	11mmT6	DIFFUSE,MF,ML,EL,OVAL,NND,R=G	
<b>NGC 2283</b>	<b>H271-3</b>	<b>Galaxy SB(s)cd</b>	<b>3OR4S*+NEB</b>
Feb 10 2005 8"	11mmT6	MB,ML,OVAL,PATCHY,FNUC,R=G	
<b>NGC 2287</b>	<b>M41</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,VL,B,LC,ST 8...</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 2293</b>		<b>Galaxy SAB(s)0+ pec</b>	<b>PB,R,GBM,DWI92,AM ST</b>
Nov 22 2006 8"	11mmT6	VF,VS,OVAL,AV,R=G	
<b>NGC 2296</b>		<b>Nebula E</b>	<b>VF,VS,R</b>
Mar 20 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
<b>NGC 2325</b>		<b>Galaxy E4</b>	<b>PB,PL,LE,GBM</b>
Feb 10 2005 8"	11mmT6	MF,MS,OVA,PATCHY,NND,R=F	
<b>NGC 2327</b>	<b>H25-4</b>	<b>Nebula</b>	<b>PB**INV INS,VF,NEB</b>
Mar 28 2011 12"	7mm TV	SMALL,FAINT,R=F,OIII	
<b>NGC 2345</b>		<b>Open Cluster 9.0 II 3 r</b>	<b>CL,PL,PRI,GBM,*10.14</b>
Feb 10 2005 8"	11mmT6	ML,R=G	
<b>NGC 2351</b>		<b>Non-Existent</b>	<b>CL,LC,**TAKEN</b>
Feb 17 2012 18"	17mmT4	OIII FILTER - THOR'S HELMUT - GREAT OBJECT	
<b>NGC 2354</b>	<b>H16-7</b>	<b>Open Cluster 9.1 III 2 r</b>	<b>CL,CRI,LC</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 2359</b>	<b>H21-5</b>	<b>Nebula E</b>	<b>VF,VVL,VIF</b>
Dec 12 2012 36"	17mmT4	OUSTANDING OBJECT WOIII FILTER AND VERY GOOD TRANSPARENCY.	
Apr 14 2010 16"	26mm	PB,PL,OVAL,UB,NND.R=G	
Dec 28 2008 31"	31mmT5	PB,PL,R=E!!, BEAUTIFUL	
Mar 10 2007 8"	19mmW	PB,L,NEBULOSITY,R=G,OIII FILTER	

## Canis Major - The Big Dog

<b>NGC 2359</b>		<b>H21-5</b>	<b>Nebula E</b>	<b>VF,VVL,VIF</b>
Dec 20 2006 31"	31mmT5	VB,EL,NEBULOSITY!!,R=E!!!!,OIII FILTER		
Dec 19 2006 31"	31mmT5	PB,EL,PATCH,R=E,HINT-NEBULOSITY,NO FILTER		
<b>NGC 2360</b>		<b>H12-7</b>	<b>Open Cluster 10.4 I 3 r</b>	<b>CL,VL,RI,PC,ST9...12</b>
Mar 13 2007 8"	19mmW	F,S,R=F,RESOLVE 7+ STARS		
Dec 18 2006 1.9"	12x50	F,S,R=F,UNCOMPRESSED GROUP		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2362</b>		<b>H17-7</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,PL,RI,30CMA</b>
Feb 10 2005 8"	11mmT6	VB,ML,R,R=G		
<b>NGC 2367</b>		<b>H27-8</b>	<b>Open Cluster 9.4 II 3 m</b>	<b>CL,S,P,LC</b>
Feb 10 2005 8"	11mmT6	MS,R,R=F, SMALL & TIGHT		
<b>NGC 2374</b>		<b>H35-8</b>	<b>Open Cluster 10.7 IV 2 p</b>	<b>CL,VL,PRI,LC,ST L</b>
Feb 10 2005 8"	11mmT6	MB,ML,R=G		
<b>NGC 2383</b>			<b>Open Cluster 9.8 II 3 m</b>	<b>CL,PS,PMC,ST12</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2384</b>			<b>Open Cluster 8.6 IV 3 p</b>	<b>CL,LC,BIFID,**</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		

## Canis Minor - The Little Dog

<b>NGC 2350</b>			<b>Galaxy S0/a</b>	<b>EF,ES,IR</b>
Mar 13 2007 8"	11mmT6	PB,S,R=F,RESOLVE 12+ STARS		

## Canes Venatici - The Hunting Dogs

<b>IC</b>	<b>4277</b>		<b>Galaxy</b>	
May 14 2017	12"	11mmT6	B,PS,R,BNUC,R=G	
<b>MAC</b>	<b>1354+4015</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	MB,VS,R,FNUC,R=F	
<b>MAC</b>	<b>1354+4028</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>1355+4002</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
<b>MAC</b>	<b>1356+3817</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>1356+3818</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,VS,R,NND,AV,R=F	
<b>MAC</b>	<b>1356+3818A</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,MS,EL,OVAL,NND,R=F	
<b>MAC</b>	<b>1356+3821</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	MF,MS,OVAL,NND,R=F	
<b>MAC</b>	<b>1356+3825</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,MS,R,NND,AV,R=F	
<b>MAC</b>	<b>1356+3829</b>		<b>Galaxy</b>	
May 12 2005	31"	19mmW	VF,VS,R,NND,AV,R=F	
<b>NGC</b>	<b>4111</b>	<b>H195-1</b>	<b>Galaxy SA(r)0+:</b>	<b>sp</b>
Apr 13 2005	8"	11mmT6	VB,ML,EON,FNUC,MSB,R=G	<b>VB,PS,ME151</b>
<b>NGC</b>	<b>4138</b>	<b>H196-1</b>	<b>Galaxy SA(r)0+</b>	
Mar 26 2009	16"	17mmT4	PB,PS,OVAL,FNUC,R=F	<b>B,PL,E,VGBM,*NP</b>
<b>NGC</b>	<b>4143</b>	<b>H54-4</b>	<b>Galaxy SAB(s)0^</b>	
Mar 29 2006	8"	19mmW	DIFF,F,L,OVAL,NND,R=F	<b>CB,R,VG,VSBMN</b>
<b>NGC</b>	<b>4145</b>	<b>H169-1</b>	<b>Galaxy SAB(rs)d</b>	
Jul 26 2019	12"	8mm Et	DIFF,VF,S,OVAL,NND,R=F	<b>B,VL,VGLBM</b>
<b>NGC</b>	<b>4151</b>	<b>H165-1</b>	<b>Galaxy (R')SAB(rs)ab:</b>	
Mar 29 2006	8"	11mmT6	F,S,OVAL,NND,R=F	<b>VB,S,R,VSMBMBN,P OF2</b>
<b>NGC</b>	<b>4156</b>	<b>H642-2</b>	<b>Galaxy SB(rs)b</b>	
Mar 29 2006	8"	11mmT6	F,PS,R,NND,R=F	<b>PF,S,E,VGBM,F OF 2</b>

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<b>NGC 4183</b>		<b>H697-3</b>	<b>Galaxy SA(s)cd? sp</b>	<b>VF,CL,ME170</b>
Mar 16 2012 18"	8.8 ES	PF,S,EON,UB,NND,R=F,A.L.	FLAT GALAXY	
<b>NGC 4214</b>		<b>H95-1</b>	<b>Galaxy IBm</b>	<b>CB,CL,IE,BIN</b>
Mar 29 2006 8"	11mmT6	F,PS,R,NND,R=F		
<b>NGC 4217</b>		<b>H748-2</b>	<b>Galaxy Sb sp</b>	<b>PF,L,ME45,**N,P OF 2</b>
Mar 26 2009 16"	17mmT4	VF,VS,OCAL,NND,R=F		
<b>NGC 4220</b>		<b>H209-1</b>	<b>Galaxy SA(r)0+</b>	<b>CB,PL,PME134,PSBM</b>
Mar 26 2009 16"	17mmT4	PF,PS,EL,OVAL,FNUC,USB,R=F		
<b>NGC 4244</b>		<b>H41-5</b>	<b>Galaxy SA(s)cd: sp</b>	<b>PB,VL,EE43,VGBM</b>
May 04 2005 8"	19mmW	MB,ML,EL,EON,FNUC,R=G		
<b>NGC 4248</b>		<b>H742-2</b>	<b>Galaxy I0? sp</b>	<b>VF,S,PME,PSBM</b>
Mar 26 2009 16"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 4258</b>	<b>M106</b>	<b>H43-5</b>	<b>Galaxy Sb</b>	<b>VB,VL,VME0,SBMBN</b>
Jul 08 2018 12"	8mm Et	B,S,OVAL,MEXT,BNUC,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"	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 4346</b>		<b>H210-1</b>	<b>Galaxy S0 sp</b>	<b>VF,S,ME100,V SMBMBN</b>
Mar 29 2006 8"	11mmT6	F,S,EON,FNUC,R=F		
<b>NGC 4369</b>		<b>H166-1</b>	<b>Galaxy (R)SA(rs)a</b>	<b>CB,S,R,MBMN,R</b>
Mar 26 2009 16"	17mmT4	PF,PS,OVAL,USB,R=F		
<b>NGC 4389</b>		<b>H749-2</b>	<b>Galaxy SB(rs)bc pec:</b>	<b>PB,PL,IE,VGLBM</b>
Apr 06 2010 12"	11mmT6	VF,CS,OVAL,NND,AV,R=F		
<b>NGC 4395</b>		<b>H29.1-5</b>	<b>Galaxy SA(s)m:</b>	<b>EF,VL,NP OF DNEB</b>
Apr 06 2010 12"	11mmT6	DIFF,PF,PL,OVAL,UB,NND,R=F		
May 21 2009 16"	17mmT4	PF,PL,R,LSB,R=F		
<b>NGC 4449</b>		<b>H213-1</b>	<b>Galaxy IBm</b>	<b>VB,CL,ME,DORBIFID,*F</b>
Mar 13 2007 8"	11mmT6	PB,PL,OVAL,FNUC,MHISB,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
<b>NGC 4460</b>		<b>H212-1</b>	<b>Galaxy SB(s)0+? sp</b>	<b>B,PL,E123,PSBM</b>
Jul 26 2019 12"	8mm Et	PF,PS,EEXT,UB,NND,R=F		

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<b>NGC 4485</b>		<b>H197-1</b>	<b>Galaxy IB(s)m pec</b>	<b>B,PS,IR,NP OF 2</b>
Mar 29 2006 8"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 4490</b>		<b>H198-1</b>	<b>Galaxy SB(s)d pec</b>	<b>VB,VL,ME130,R,SF OF2</b>
Mar 29 2006 8"	11mmT6	F,S,OVAL,FNUC,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4618</b>		<b>H178-1</b>	<b>Galaxy SB(rs)m</b>	<b>B,L,E,MBM,CVDBRANCHN</b>
Apr 14 2010 16"	11mmT6	PF,PS,R,NND,R=F		
Apr 06 2010 12"	11mmT6	DIFF,PF,PS,R,NND,R=F		
Mar 29 2006 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 4625</b>		<b>H660-2</b>	<b>Galaxy SAB(rs)m pec</b>	<b>PF,S,R</b>
Apr 14 2010 16"	11mmT6	PF,PS,R,UB,NND,R=F		
Apr 06 2010 12"	11mmT6	PF,CS,OVAL,NND,AV,R=P		
<b>NGC 4627</b>		<b>H659-2</b>	<b>Galaxy E4 pec</b>	<b>F,S,R,NP OF 2</b>
May 04 2005 8"	19mmW	MF,VS,OVAL,NND,R=F		
<b>NGC 4631</b>		<b>H42-5</b>	<b>Galaxy SB(s)d sp</b>	<b>VB,VL,EE70,BMN,*ATTN</b>
May 04 2005 8"	19mmW	MB,ML,EL,EON,FNUC,R=G		
<b>NGC 4656</b>		<b>H176-1</b>	<b>Galaxy SB(s)m pec</b>	<b>PB,L,VME34,SP OF 2</b>
May 04 2005 8"	11mmT6	VF,ML,EL,EON,NND,R=F		
<b>NGC 4736</b>	<b>M94</b>		<b>Galaxy (R)SA(r)ab</b>	<b>VB,L,IR,VSVMBMBN,R</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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 - ARGONAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
<b>NGC 4800</b>		<b>H211-1</b>	<b>Galaxy SA(rs)b</b>	<b>PB,CS,R,PSBM,*14P</b>
Mar 29 2006 8"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 4861</b>		<b>H30-4</b>	<b>Galaxy SB(s)m:</b>	<b>VF,PL,VME30,BET2ST</b>
Apr 06 2010 12"	11mmT6	PF,PS,EON,NND,AV,R=F		
<b>NGC 4868</b>		<b>H644-2</b>	<b>Galaxy SAab?</b>	<b>PB,S,R,MBM</b>
Jul 26 2019 12"	8mm Et	VF,VS,R,NND,R=F		
<b>NGC 4914</b>		<b>H645-2</b>	<b>Galaxy E</b>	<b>PB,CS,R,SMBM,*17NP</b>
Mar 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F		

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<b>NGC 4956</b>		<b>H413-2</b>	<b>Galaxy S0</b>	<b>PB,CS,R,SMBM</b>
Mar 28 2011 12"	7mm TV	PF,CS,R,FNUC,R=F		
<b>NGC 5005</b>		<b>H96-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VME66,VSMBN</b>
Apr 06 2010 12"	11mmT6	PB,PS,EON,BNUC,R=G		
Apr 26 2006 8"	11mmT6	PB,PL,EON,BNUC,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
<b>NGC 5023</b>		<b>H664-2</b>	<b>Galaxy Scd: sp</b>	<b>PF,L,ME20,VLBM</b>
Mar 28 2011 12"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=90		
<b>NGC 5033</b>		<b>H97-1</b>	<b>Galaxy SA(s)c</b>	<b>VB,PL,E167,SMBMVBN</b>
Apr 06 2010 12"	11mmT6	PF,PS,EXT,OVAL,UB,NND,R=F		
Apr 26 2006 8"	11mmT6	B,L,EON,ND,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
<b>NGC 5055</b>	<b>M63</b>		<b>Galaxy SA(rs)bc</b>	<b>VB,L,PME120,VSMBMBN</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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 5103</b>		<b>H665-2</b>	<b>Galaxy S?</b>	<b>PB,CS,E</b>
Mar 28 2011 12"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 5112</b>		<b>H646-2</b>	<b>Galaxy SB(rs)cd</b>	<b>F,L,IR,VGLBM</b>
Apr 06 2010 12"	11mmT6	DIFF,PF,PS,OVAL,NND,R=P		
<b>NGC 5127</b>		<b>H328-2</b>	<b>Galaxy E pec</b>	<b>PB,PL,R,GMBM,**P</b>
Apr 06 2010 12"	11mmT6	DIFF,PF,PS,OVAL,NND,R=P		
<b>NGC 5145</b>		<b>H667-2</b>	<b>Galaxy S?</b>	<b>PB,VS,VLE,GLBM</b>
Apr 06 2010 12"	11mmT6	PF,CS,OVA,UB,NND,R=F		
<b>NGC 5173</b>		<b>H672-3</b>	<b>Galaxy E0:</b>	<b>F,VS,R,STELLAR</b>
Apr 06 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=P		
<b>NGC 5194</b>	<b>M51</b>		<b>Galaxy SA(s)bc pec</b>	<b>GREAT SPIRAL NEBULA</b>
Jul 26 2020 12"	17mmT4	NV+IR685 FILTER. DECENT. COULDN'T SEE MUCH DETAIL DUE TO NOISE.		
Jun 19 2020 12"	20mmOF	GOOD		
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		

## Canes Venatici - The Hunting Dogs

<b>NGC 5194</b>	<b>M51</b>	<b>Galaxy SA(s)bc pec</b>	<b>GREAT SPIRAL NEBULA</b>
Aug 29 2019 12"	17mm O	PRETTY FAINT. DIDN'T SEE THE BRIDGE BETWEEN WHIRLPOOL & MAYTAG	
Jul 26 2019 12"	11mmT6	EYE CANDY TO TEST SKY CONDITIONS	
May 31 2019 12"	11mmT6	NICE	
Apr 20 2018 12"	11mmT6		
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 5195</b>	<b>H186-1</b>	<b>Galaxy I0 pec</b>	<b>B,PS,LE,VGBM,INV-M51</b>
Jul 26 2020 12"	17mmT4	NV+IR685 FILTER. DECENT. COULDN'T SEE MUCH DETAIL DUE TO NOISE.	
Jun 19 2020 12"	20mmOF	GOOD	
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
Aug 29 2019 12"	17mm O	DITTO	
Jul 26 2019 12"	11mmT6	EYE CANDY	
May 31 2019 12"	11mmT6		
Apr 20 2018 12"	11mmT6		
Apr 14 2016 12"	8mm Ds	F,PS,R,UB,NND,R=F,COULD NOT SEE LINK TO M51	
Aug 21 2015 12"	17mmT4		
May 23 2015 12"	8mm Ds	COMPANION TO M51	
May 30 2014 36"	17mmT4	GREAT VIEW.	
May 30 2014 18"	8mm Ds	MORE DETAIL THAN THE 36". AT ZENITH	
Jul 13 2013 18"	7mm TV	MORE EYE CANDY - MAYTAG GALAXY	
Apr 26 2006 8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G	
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL	

<b>NGC 5198</b>	<b>H689-2</b>	<b>Galaxy E1-2:</b>	<b>PF,PS,R,MBM</b>
Apr 06 2010 12"	11mmT6	PF,CS,R,UB,NND,R=F	

<b>NGC 5272</b>	<b>M3</b>	<b>Globular</b>	<b>GCL,EB,VL,VSMBM,*11.</b>
Jun 19 2020 12"	13mmHV	GREAT	



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<b>NGC</b>	<b>5272</b>	<b>M3</b>	<b>Globular</b>	<b>GCL,EB,VL,VSMBM,*11.</b>
	May 31 2019 12"	11mmT6		
	Apr 20 2018 12"	11mmT6		
	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	
<b>NGC</b>	<b>5273</b>	<b>H98-1</b>	<b>Galaxy SA(s)0<sup>A</sup></b>	<b>CB,PL,R,G,PSMBM</b>
	Mar 29 2006 8"	11mmT6	PF,PS,R,NND,AV,R=F	
<b>NGC</b>	<b>5290</b>	<b>H170-1</b>	<b>Galaxy Sbc: sp</b>	<b>CB,PL,E90,BMN</b>
	Jul 26 2019 12"	8mm Et	VF,VS,NND,R=F	
<b>NGC</b>	<b>5297</b>	<b>H180-1</b>	<b>Galaxy SAB(s)c: sp</b>	<b>CB,L,PME142,GBM</b>
	Jul 26 2019 12"	8mm Et	VF,PS,EON,AV1,R=P	
<b>NGC</b>	<b>5326</b>	<b>H712-2</b>	<b>Galaxy SAa:</b>	<b>CF,S,VLE,SBM</b>
	Jul 26 2019 12"	8mm Et	PF,PS,OVAL,FNUC,R=G	
<b>NGC</b>	<b>5347</b>	<b>H424-2</b>	<b>Galaxy (R')SB(rs)ab</b>	<b>PF,CL,R,LBM</b>
	Jul 26 2019 12"	8mm Et	VF,VS,OVAL,NND,AV2,R=P	
<b>NGC</b>	<b>5350</b>	<b>H713-2</b>	<b>Galaxy SB(r)b</b>	<b>CF,PL,BM,*7P,1ST OF 4</b>
	May 12 2005 31"	19mmW	VB,ML,OVAL,FNUC,MSB,R=G	
<b>NGC</b>	<b>5351</b>	<b>H697-2</b>	<b>Galaxy SA(r)b:</b>	<b>CF,L,LE90,VGBM</b>
	Jul 26 2019 12"	8mm Et	PF,S,OVAL,UB,NND,R=F	
<b>NGC</b>	<b>5353</b>	<b>H714-2</b>	<b>Galaxy S0 sp</b>	<b>PB,S,R,2ND OF 4</b>
	May 12 2005 31"	19mmW	VB,ML,OVAL,BNUC,PHISB,R=G	
<b>NGC</b>	<b>5354</b>	<b>H715-2</b>	<b>Galaxy S0 sp</b>	<b>PF,S,R,3RD OF 4</b>
	May 12 2005 31"	19mmW	VB,ML,OVAL,BNUC,R=G	

## Canes Venatici - The Hunting Dogs

<b>NGC 5355</b> May 12 2005 31"	19mmW	<b>H699-3</b> MB,ML,EL,OVAL,FNUC,R=G	<b>Galaxy S0?</b>	<b>VF,PS,4TH OF 4</b>
<b>NGC 5358</b> May 12 2005 31"	19mmW	MB,FS,EL,OVALFNUC,R=G	<b>Galaxy S0/a</b>	<b>VF,VS,R,2VF*INV</b>
<b>NGC 5371</b> May 12 2005 31"	19mmW	MB,ML,OVAL,BNUC,HISB,R=G	<b>Galaxy SBbc</b>	<b>PB,L,R,BMFN</b>
<b>NGC 5383</b> Mar 28 2011 12"	7mm TV	PF,PS,R,FNUC,R=G	<b>Galaxy (R')SB(rs)b: p</b>	<b>CB,CL,R,GBM</b>
<b>NGC 5395</b> Jul 26 2019 12"	8mm Et	VF,PS,OVAL,MEXT,NND,R=F	<b>Galaxy SA(s)b pec</b>	<b>CF,CL,E15,LBM,SF OF2</b>
<b>NGC 5406</b> Jul 26 2019 12"	8mm Et	PF,PS,OVAL,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>F,PS,R,LBM</b>
<b>NGC 5440</b> Mar 28 2011 12"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=G	<b>Galaxy Sa</b>	<b>PF,CS,LE,BM,*11SP</b>
<b>NGC 5444</b> Mar 28 2011 12"	7mm TV	DIFF,CF,PS,OVAL,MEXT,UB,R=F	<b>Galaxy E+:</b>	<b>PB,PL,IVLE,VSMBM</b>
<b>NGC 5445</b> Mar 28 2011 12"	7mm TV	CF,CS,OVAL,VEXT,UB,NND,R=F	<b>Galaxy S0?</b>	<b>F,*13P</b>
<b>PGC 49480</b> May 12 2005 31"	19mmW	VF,ML,OVAL,NND,R=F	<b>Galaxy SBb</b>	
<b>PGC 49542</b> May 12 2005 31"	19mmW	VB,VS,EL,EON,BNUC,R=G	<b>Galaxy Sdm:</b>	

## Camelopardus - The Giraffe

<b>IC 334</b>			<b>Galaxy S?</b>	
Oct 12 2012	18"	7mm TV	F,S,OVAL,BNUC,R=G	
<b>IC 342</b>			<b>Galaxy SAB(rs)cd</b>	
Oct 12 2012	18"	7mm TV	DIFF,F,L,R,UB,NND,R=G	
<b>IC 356</b>			<b>Galaxy SA(s)ab pec</b>	
Oct 12 2012	18"	7mm TV	F,L,OVAL,BNUC,R=G, SPIRAL ARM NORTH	
<b>IC 361</b>			<b>Open Cluster 14.0 II 2 r</b>	<b>F,L (NEB CL?)</b>
Oct 12 2012	18"	7mm TV	R=F	
<b>IC 381</b>			<b>Galaxy SAB(rs)bc</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F,PA=90	
<b>IC 391</b>			<b>Galaxy SA(s)c</b>	
Oct 12 2012	18"	7mm TV	PF,PS,R,FNUC,R=F	
<b>IC 396</b>			<b>Galaxy S?</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,FNUC,R=F	
<b>IC 440</b>			<b>Galaxy SA(r)ab</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PA=120	
<b>IC 442</b>			<b>Galaxy S?</b>	
Oct 12 2012	18"	7mm TV	PF,PS,R,FNUC,R=F	
<b>IC 445</b>			<b>Galaxy S0?</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>IC 449</b>			<b>Galaxy E:</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,MEXT,NND,R=F,BRIGHTER TO NE.	
<b>IC 450</b>			<b>Galaxy SAB0+:</b>	
Oct 12 2012	18"	7mm TV	VF,VS,OVAL,UB,NND,AV2,R=P	
<b>IC 451</b>			<b>Galaxy SAB(r)b:</b>	
Nov 10 2012	18"	7mm TV	VF,VS,OVAL,UB,NND,AV2,R=F	
<b>IC 467</b>			<b>Galaxy SAB(s)c:</b>	
Feb 01 2005	31"	17mmT4	MB,ML,OVAL,PATCH,NND,R=G	
<b>IC 499</b>			<b>Galaxy Sa</b>	
Nov 16 2012	18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=G	
<b>IC 511</b>			<b>Galaxy S0/a:</b>	
May 25 2014	18"	8mm Ds	PF,PS,OVAL,PEXT,UB,NND,AV1,R=F	

## Camelopardus - The Giraffe

<b>IC 512</b>			<b>Galaxy SAB(s)cd</b>	
May 25 2014	18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
<b>IC 520</b>			<b>Galaxy SAB(rs)ab?</b>	
Mar 08 2013	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>IC 529</b>			<b>Galaxy SA(s)c:</b>	
May 25 2014	18"	8mm Ds	PF,PS,OVL,PEXT,UB,NND,R=F	
<b>IC 2174</b>			<b>Galaxy SBa</b>	
Feb 01 2005	31"	17mmT4	MF,OVAL,PATCHY,NND,R=G	
<b>IC 2179</b>			<b>Galaxy E1-2</b>	
Feb 01 2005	31"	17mmT4	MB,ML,EL,NUC,HISB,R=G	
<b>IC 2184</b>			<b>Galaxy I?</b>	
Feb 01 2005	31"	17mmT4	DIFF,MB,MF,PATCH,NND,R=G	
<b>IC 2209</b>			<b>Galaxy SB(rs)b:</b>	
Oct 12 2012	18"	7mm TV	VF,VS,R,UB,NND,AV,R=F	
<b>IC 2389</b>			<b>Galaxy SB(s)b?</b>	
Mar 08 2013	18"	7mm TV	PF,VS,EON,,UB,NND,R=F	
<b>IC 2438</b>			<b>Open Cluster</b>	<b>CL, 5 OR 6 ST 13...</b>
Apr 14 2016	12"	8mm Ds	F,S, JUST A COUPLE OF STARS	
<b>IC 3568</b>			<b>Planetary Neb 2+2a</b>	
Jun 07 2010	12"	7.5mmW	PB,VS,R=F. ALMOST STELLER	
<b>KEMBL1</b>			<b>Open Cluster</b>	
Nov 26 2006	1.9"	12x50	BRIGHT-STRING,R=F	
<b>NGC 1469</b>			<b>Galaxy SA0-:</b>	<b>VF,VS,R,B*NR</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=F,PA=45	
<b>NGC 1485</b>			<b>Galaxy SAb? sp</b>	<b>EF,PS,R</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,EEXT,UB,NND,R=F,PA=160	
<b>NGC 1501</b>			<b>H53-4</b>	<b>Planetary Neb 3</b>
Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G	<b>PLN,PB,PS,VLE,1'DIAM</b>
<b>NGC 1502</b>			<b>H47-7</b>	<b>Open Cluster 7.0 I 3 m</b>
Nov 26 2006	1.9"	12x50	COMPACT, BRIGHT, R=G	<b>CL,PRI,CC,IF</b>
Oct 06 2004	8"	11mmT6	OVAL,HISB,R=E	
<b>NGC 1530</b>			<b>Galaxy SB(rs)b</b>	<b>PB,L</b>

## Camelopardus - The Giraffe

<b>NGC 1530</b>			<b>Galaxy SB(rs)b</b>	<b>PB,L</b>
Oct 12 2012	18"	7mm TV	PF,S,OVAL,FNUC,R=F	
<b>NGC 1560</b>			<b>Galaxy SA(s)d sp</b>	<b>VF,L,E,*9.3SP</b>
Oct 12 2012	18"	7mm TV	DIFF,VF,S,EON,UB,NND,AV,R=F,PA=120	
<b>NGC 1569</b>			<b>H768-2</b>	<b>Galaxy IBm</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,PEXT,FNUC,R=G,DISTURBED NE CORNER,PA=45	<b>PB,S,LE,BNM,*9.5N1'</b>
<b>NGC 1573</b>			<b>Galaxy E</b>	<b>VF,S,*9.5F</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 1708</b>			<b>Open Cluster 10.0 cluster?</b>	<b>CL,VL,PRI,LC,ST L\$\$</b>
Apr 14 2016	12"	8mm Ds	F,R=F,12-14 LOOSE GROUPING	
<b>NGC 1961</b>			<b>H747-3</b>	<b>Galaxy SAB(rs)c</b>
Nov 03 2004	8"	11mmT6	VF,EL,OVAL,NND,AV,R=F	<b>CF,PL,IF,MBM,ER,*INV</b>
<b>NGC 2128</b>			<b>Galaxy S0-:</b>	<b>VF,VS,VLE</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,FNUC,R=F	
<b>NGC 2146</b>			<b>Galaxy SB(s)ab pec</b>	<b>PB,2'L,LE</b>
Oct 12 2012	18"	7mm TV	PF,S,OVAL,FNUC,R=G, SPIRAL, NORTH/SOUTH ARMS	
<b>NGC 2146A</b>			<b>Galaxy SAB(s)c:</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F,PA=120	
<b>NGC 2253</b>			<b>H54-7</b>	<b>Open Cluster</b>
Mar 28 2011	12"	5mm TV	NON-EXISTENT PER NGC/IC PROJECT.	<b>VF,ST ES</b>
<b>NGC 2256</b>			<b>Galaxy SAB0-?</b>	<b>F,R,*9.5 3'SF</b>
Oct 12 2012	18"	7mm TV	DIFF,PF,PS,R,UB,NND,R=F	
<b>NGC 2258</b>			<b>Galaxy SA(r)0^</b>	<b>F,2*10,11F</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,FNUC,R=F	
<b>NGC 2268</b>			<b>Galaxy SAB(r)bc</b>	<b>PF,PL,LE</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,MEXT,FNUC,R=G, MOTTLED	
<b>NGC 2314</b>			<b>Galaxy E3</b>	<b>VF,S,R</b>
Feb 01 2005	31"	17mmT4	MB,ML,EL,FNUC,MSB,R=G	
<b>NGC 2336</b>			<b>Galaxy SAB(r)bc</b>	<b>PB,PL,R,2*11NR</b>
Oct 12 2012	18"	7mm TV	F,S,OVAL,MEXT,UB,NND,R=F	
<b>NGC 2347</b>			<b>H746-3</b>	<b>Galaxy (R')SA(r)b:</b>
Feb 01 2005	31"	17mmT4	VB,ML,OVAL,SNUC,HISB,R=G	<b>VF,S,R,LBM</b>

## Camelopardus - The Giraffe

<b>NGC 2363</b>			<b>Galaxy Irr</b>	<b>NEB* OR VFVS,2366SF</b>
Feb 01 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>NGC 2366</b>		<b>H748-3</b>	<b>Galaxy Irr</b>	<b>VF,PL,MBM,CVEDTAILS</b>
Feb 01 2005 31"	17mmT4	MF,ML,PATCHY,NUC,R=G		
<b>NGC 2403</b>		<b>H44-5</b>	<b>Galaxy Sc</b>	<b>CB,EL,VME,VGMBMN</b>
Nov 26 2006 1.9"	12x50	PF,PS,OVAL,AV,R=F		
Oct 06 2004 8"	11mmT6	MB,EL,OVAL,NND,R=G		
<b>NGC 2441</b>			<b>Galaxy SAB(r)b:</b>	<b>VF,PS</b>
Feb 01 2005 31"	17mmT4	MB,ML,OVAL,FNUC,MSB,R=G		
<b>NGC 2460</b>			<b>Galaxy SA(s)a</b>	<b>F,S,R,S*CENTRE</b>
Oct 12 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2523</b>			<b>Galaxy SB(r)bc</b>	<b>PB,PL,LE,LBM,*NR</b>
Oct 12 2012 18"	7mm TV	DIFF,PF,S,OVAL,UB,NND,R=F		
<b>NGC 2523A</b>			<b>Galaxy SB(s)c:</b>	
Oct 12 2012 18"	7mm TV	VS,VS,OVAL,UB,NND,AV3,R=P		
<b>NGC 2523B</b>			<b>Galaxy SA(s)b: sp</b>	
Oct 12 2012 18"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=185		
<b>NGC 2523C</b>			<b>Galaxy E?</b>	
Oct 12 2012 18"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 2544</b>			<b>Galaxy SB(s)a:</b>	<b>EEF,PS,R,SEVB*AROUND</b>
Oct 12 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2550</b>			<b>Galaxy Sb:</b>	<b>EEF,PS,CE</b>
Nov 16 2012 18"	7mm TV	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2550A</b>			<b>Galaxy Sc</b>	
Nov 16 2012 18"	7mm TV	VF,VS,OVAL,MEXT,UB,R=F		
<b>NGC 2551</b>			<b>Galaxy SA(s)0/a</b>	<b>VF,S,F*IN CENTRE</b>
Nov 16 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 2591</b>			<b>Galaxy Scd: sp</b>	<b>F,S,E,LBM</b>
May 25 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=30		
Nov 16 2012 18"	7mm TV	VF,VS,EON,UB,NND,R=G		
<b>NGC 2633</b>			<b>Galaxy SB(s)b</b>	<b>F,S,LE</b>
Mar 08 2013 18"	7mm TV	PF,VS,OVAL,MEXT,UB,NND,R=F		
Nov 16 2012 18"	7mm TV	PF,PS,OVAL,UB,AV,R=F		

## Camelopardus - The Giraffe

<b>NGC 2634</b>		<b>Galaxy E1:</b>	<b>F,S,LE</b>
Mar 08 2013 18"	7mm TV	VF,VS,R,UB,NND,R=F	
Nov 16 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>NGC 2634A</b>		<b>Galaxy SB(s)bc? sp</b>	
May 25 2014 18"	8mm Ds	VF,VS,EON,UB,NND,R=F,PA=50	
<b>NGC 2636</b>		<b>Galaxy E0:</b>	<b>VF,S,2*11,12 F</b>
May 25 2014 18"	8mm Ds	VF,VS,R,UB,NND,AV2,R=P	
<b>NGC 2646</b>		<b>Galaxy SB(r)0^:</b>	<b>VF,S,2F*2.5'SF</b>
Mar 08 2013 18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>NGC 2655</b>		<b>H288-1</b>	<b>Galaxy SAB(s)0/a</b>
Oct 06 2004 8"	7.5mmW	MB,EL,EON,FNUC,R=G	<b>VB,CL,LE90,GSVMBM</b>
<b>NGC 2715</b>		<b>Galaxy SAB(rs)c</b>	<b>PB,L,E</b>
Mar 08 2013 18"	7mm TV	PF,PS,OVAL,PET,UB,NND,R=F	
<b>NGC 2732</b>		<b>Galaxy S0 sp</b>	<b>PB,S,E45,*13NF</b>
May 25 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=G,PA=75	
<b>NGC 2748</b>		<b>Galaxy SAbc</b>	<b>PB,PL,E,VGLBM</b>
May 25 2014 18"	8mm Ds	PF,PS,OVAL,VEXT,UB,NND,R=F	
<b>NGC 3901</b>		<b>H970-3</b>	<b>Galaxy Scd:</b>
May 25 2014 18"	8mm Ds	VF,PS,OVAL,VEXT,UB,NND,R=F	<b>PF,PL,RESOLVABLE</b>
<b>NGC 4127</b>		<b>H279-1</b>	<b>Galaxy SAc?</b>
May 25 2014 18"	8mm Ds	VF,PS,OVAL,PEXT,UB,NND,R=F	<b>F,PL,VLE,GLBM</b>
<b>NGC 5295</b>		<b>H946-3</b>	<b>Galaxy</b>
May 25 2014 18"	8mm Ds	VF,VS,R,NND,AV3,R=P	<b>VF,VS,R</b>
<b>NGC 5640</b>		<b>H949-3</b>	<b>Galaxy Ia</b>
May 25 2014 18"	8mm Ds	VF,VS,R,UB,NND,AV3,R=P	<b>EF,S,LE</b>
<b>PGC 15548</b>		<b>Galaxy S0-:</b>	
Oct 12 2012 18"	7mm TV	VF,VS,OVAL,MEXT,UB,NND,R=F	
<b>PGC 19566</b>		<b>Galaxy S</b>	
Oct 12 2012 18"	7mm TV	VF,PS,R,UB,NND,AV3,R=P	
<b>PGC 20383</b>		<b>Galaxy S?</b>	
Dec 20 2006 31"	17mmT4	PF,PS,OVAL,NND,AV,R=F	
<b>PGC 20434</b>		<b>Galaxy I?</b>	

## Camelopardus - The Giraffe

<b>PGC 20434</b>		<b>Galaxy I?</b>
Dec 20 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>PGC 20460</b>		<b>Galaxy Ring</b>
Dec 20 2006 31"	17mmT4	CB,PS,E,OVAL,FNUC,R=F
<b>PGC 21685</b>		<b>Galaxy S</b>
Dec 20 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>PGC 21693</b>		<b>Galaxy SB?</b>
Dec 20 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>PGC 21896</b>		<b>Galaxy S0-:</b>
Dec 20 2006 31"	17mmT4	PB:,PS,E,OVAL,FNUC,MHISB,R=G
<b>PGC 21971</b>		<b>Galaxy SAB(s)c?</b>
Dec 20 2006 31"	17mmT4	PB,PL,R,BNUC,HISB,R=G
<b>PGC 22010</b>		<b>Galaxy</b>
Dec 20 2006 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F
<b>PGC 22044</b>		<b>Galaxy Sc</b>
Dec 20 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>PGC 22050</b>		<b>Galaxy E?</b>
Dec 20 2006 31"	17mmT4	PB,PL,E,OVAL,FNUC,R=G
<b>PGC 22067</b>		<b>Galaxy S?</b>
Dec 20 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F
<b>PGC 22127</b>		<b>Galaxy Sa</b>
Dec 20 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 24978</b>		<b>Galaxy Dwarf Irr</b>
Mar 08 2013 18"	7mm TV	VF,VS,OVAL,UB,NND,AV,R=F
<b>STOCK23</b>		<b>Open Cluster II 3 P N</b>
Nov 26 2006 1.9"	12x50	B,PL,LOOSE,R=F
Nov 09 2006 8"	19mmW	6+ BRIGHT, OTHERS DIM, PS,R=F



## Capricornus - The Horned Goat

<b>IC 1313</b>			<b>Galaxy (R')SB(r)ab</b>	
Sep 28 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F		
<b>IC 1319</b>			<b>Galaxy Sb</b>	
Sep 28 2008 31"	17mmT4	VF,S,R,UB,NND,R=F		
<b>IC 1321</b>			<b>Galaxy (R')SB(r)bc</b>	
Sep 28 2008 31"	17mmT4	CF,VS,R,NND,R=F		
<b>IC 1324</b>			<b>Galaxy (R')SA(rs)0/a:</b>	
Sep 28 2008 31"	17mmT4	F,S,R,UB,NND,R=F		
<b>IC 1328</b>			<b>Galaxy S</b>	
Sep 28 2008 31"	17mmT4	EF,ES,OVAL,NND,AV,R=F		
<b>IC 1334</b>			<b>Galaxy SAa:</b>	<b>F, S</b>
Sep 28 2008 31"	17mmT4	F,S,EL,OVAL,NND,R=F		
<b>IC 1336</b>			<b>Galaxy Sa?</b>	
Sep 28 2008 31"	17mmT4	EF,ES,R,NND,AV,R=P		
<b>IC 1356</b>			<b>Galaxy S</b>	
Sep 28 2008 31"	17mmT4	F,VS,R,UB,NND,R=F		
<b>IC 1386</b>			<b>Galaxy SA0-:</b>	
Sep 28 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F		
<b>IC 1393</b>			<b>Galaxy S0</b>	
Sep 28 2008 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>IC 1408</b>			<b>Galaxy S0</b>	
Sep 28 2008 31"	17mmT4	PF,VS,EL,OVAL,UB,NND,R=F		
<b>IC 5078</b>			<b>Galaxy SA(s)c:</b>	
Sep 05 2007 8"	11mmT6	VF,VS,NND,AV,R=F		
Sep 19 2004 8"	7.5mmW	VF,NND,AV,R=F		
<b>IC 5122</b>			<b>Galaxy S0:</b>	
Sep 28 2008 31"	17mmT4	F,S,EON,NND,AV,R=P		
<b>NGC 6897</b>			<b>Galaxy Sbc</b>	<b>VF,S</b>
Sep 28 2008 31"	17mmT4	F,S,OVAL,NND,R=F		
<b>NGC 6898</b>			<b>Galaxy (R')SB(rs)a:</b>	<b>F,S,IR</b>
Sep 28 2008 31"	17mmT4	CF,S,OVAL,UB,NND,R=F		
<b>NGC 6903</b>			<b>Galaxy SAB0- pec:</b>	<b>CL,E,BM*17,*10ATT N</b>

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<b>NGC 6903</b>			<b>Galaxy SAB0- pec:</b>	<b>CL,E,BM*17,*10ATT N</b>
Sep 19 2004 8"	7.5mmW	B,EL,FNUC,R=G		
<b>NGC 6907</b>		<b>H141-3</b>	<b>Galaxy SBbc</b>	<b>CF,CL,VLE,VGLBM,3STP</b>
Sep 19 2004 8"	7.5mmW	VF,PATCH,,NND,AV,R=F		
<b>NGC 6908</b>			<b>Galaxy SB(s)bc</b>	<b>EF,VS,LE,6907P</b>
Sep 28 2008 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 6912</b>			<b>Galaxy SB(s)c</b>	<b>VF,2*14,15NP,*8F</b>
Sep 28 2008 31"	17mmT4	VF,S,R,NND,R=F		
<b>NGC 6924</b>			<b>Galaxy SA(s)0-:</b>	<b>VF,PS,R,SBMN</b>
Sep 28 2008 31"	17mmT4	PF,ES,OVAL,UB,NND,R=F		
<b>NGC 6931</b>			<b>Galaxy Sb pec?</b>	<b>EF,PS,E120,GBM</b>
Sep 28 2008 31"	17mmT4	PF,S,OVAL,UB,NND,R=F		
<b>NGC 6936</b>			<b>Galaxy SA0- sp:</b>	<b>VF,VS,R,SLBM</b>
Sep 28 2008 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 6986</b>			<b>Galaxy SB0-?</b>	<b>VF,VS,R,GLBMN</b>
Sep 28 2008 31"	17mmT4	F,S,OVAL,FNUC,R=F		
<b>NGC 7016</b>			<b>Galaxy E0</b>	<b>VF,ES,R,BMN,1ST OF 3</b>
Sep 28 2008 31"	17mmT4	F,S,R,NND,R=F		
<b>NGC 7017</b>			<b>Galaxy S0</b>	<b>EF,VS,R,BMN,2ND OF 3</b>
Sep 28 2008 31"	17mmT4	CF,S,R,UB,NND,R=F		
<b>NGC 7018</b>			<b>Galaxy E</b>	<b>VF,VS,VLE,GLBM,3 OF3</b>
Sep 28 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F		
<b>NGC 7019</b>			<b>Galaxy SB(s)b:</b>	<b>VF,VS,R,SBMN</b>
Sep 28 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>NGC 7030</b>			<b>Galaxy (R')SB(r)ab pec</b>	<b>VF,VS,IR,BMN</b>
Sep 28 2008 31"	17mmT4	PF,S,OVAL,UB,NND,R=F		
<b>NGC 7035</b>			<b>Galaxy SAB(s)0:</b>	<b>EF,S,IR</b>
Sep 28 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=P		
<b>NGC 7035A</b>			<b>Galaxy L</b>	
Sep 28 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 7073</b>			<b>Galaxy Sa/b</b>	<b>VF,VS,IR</b>
Sep 28 2008 31"	17mmT4	VF,S,R,NND,R=F		

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<b>NGC 7099</b>	<b>M30</b>	<b>Globular</b>	<b>GCL,B,L,LE,GPMBM</b>
Jul 17 2020 12"	8mm Et	FIRST TIME VEIWING THIS SINCE JULY 2006.	
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 7103</b>		<b>Galaxy E+1</b>	<b>VF,VS,R,GBM,1ST OF 2</b>
Sep 28 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>NGC 7104</b>		<b>Galaxy E0 pec:</b>	<b>VF,VS,IR,GBMN,2NDOF2</b>
Sep 28 2008 31"	17mmT4	F,S,R,UB,NND,R=F	
<b>NGC 7131</b>		<b>Galaxy (R')SA(rs)0^?</b>	<b>VF,S,VLE,VGBM</b>
Sep 28 2008 31"	17mmT4	PF,CS,EL,OVAL,UB,NND,R=F	
<b>PGC 64548</b>		<b>Galaxy SA(rs)cd</b>	
Aug 24 2005 8"	7.5mmW	VF,VS,R,NND,R=F	
<b>PGC 64672</b>		<b>Galaxy Sc</b>	
Sep 28 2008 31"	17mmT4	CF,ES,R,NND,AV,R=F	
<b>PGC 64907</b>		<b>Galaxy IBm pec</b>	
Sep 28 2008 31"	17mmT4	EF,VS,OVAL,NND,AV,R=F	
<b>PGC 65555</b>		<b>Galaxy Scd? sp</b>	
Sep 28 2008 31"	17mmT4	VF,S,OVAL,NND,R=F	
<b>PGC 65923</b>		<b>Galaxy SB(rs)0+ pec:</b>	
Sep 27 2005 31"	17mmT4	MB,ML,OVAL,FNUC,MSB,R=F	

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<b>CR</b>	<b>463</b>		<b>Galaxy III2m</b>
Oct 13 2006	1.9"	12x50	B,S,R=F
<b>IC</b>	<b>10</b>		<b>Galaxy IBm</b>
Sep 02 2019	12"	11mmT6	DIFF,VF,S,OVAL,UB,R=F
Oct 05 2016	12"	11mmT6	PF,S,OVAL,DIFF,NND,R=F
Nov 11 2009	12"	7.5mmW	VF,PS,R,NND,AV,R=F
Oct 25 2009	12"	11mmT6	F,PS,OVAL,NND,AV,R=F
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST
<b>IC</b>	<b>59</b>		<b>Nebula E+R</b>
Sep 05 2007	8"	11mmT6	PF,L,R=F
<b>IC</b>	<b>63</b>		<b>Nebula E+R</b>
Oct 21 2012	8"	11mmT6	PF,PS,Y-SHAPED,R=F
Sep 05 2007	8"	11mmT6	PF,PS,R=P
<b>IC</b>	<b>166</b>		<b>Open Cluster 17.0 II 1 r</b>
Sep 05 2007	8"	11mmT6	B,S,LOOSE GROUPD,R=F
<b>IC</b>	<b>289</b>		<b>Planetary Neb 4+2</b>
Aug 31 2010	12"	7mm TV	PF,PS,R=F. NO CENTRAL STAR NOTED.
<b>IC</b>	<b>1590</b>		<b>Open Cluster 9.0 n</b>
Oct 31 2010	12"	11mmT6	R=F, SMALL GROUP SOME NEBULOSITY
Sep 12 2010	12"	11mmT6	PF,PS,R=P,STARS 6+ SOME ASSOCIATED NEBULOSITY
<b>IC</b>	<b>1747</b>		<b>Planetary Neb 3b</b>
Oct 31 2010	12"	7mm TV	VF,VS,R=P. STELLAR
Sep 12 2010	12"	5.5mmN	PF,VVS,R=P,STELLAR
<b>IC</b>	<b>1795</b>		<b>Non-Existent</b>
Sep 05 2007	8"	11mmT6	PF,PL,DIM,R=F
<b>IC</b>	<b>1805</b>		<b>Open Cluster E</b>
Jul 26 2019	12"	17mmT4	R=F
Aug 12 2005	8"	19mmW	MB,ML,R=G
<b>IC</b>	<b>1848</b>		<b>Open Cluster 7.1 I 3 p n</b>
Sep 05 2007	8"	11mmT6	B,L,FEW STARS,R=F
<b>IC</b>	<b>1871</b>		<b>Nebula E</b>
Sep 05 2007	8"	11mmT6	PF,PS,R=F
<b>KING</b>	<b>14</b>		<b>Open Cluster</b>
Jul 26 2019	12"	17mm O	SAME FOV AS NGC-133 & NGC-145

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<b>NGC 103</b>			<b>Open Cluster 11.0 II 1 m</b>	<b>CL,PS,PC,*11...18</b>
Jul 26 2019	12"	17mm O	R=F	
Sep 05 2007	8"	11mmT6	F,S,SCATTERED STARS,R=F	
<b>NGC 110</b>			<b>Open Cluster 9.7 IV 1 p cl</b>	<b>CL,PR,LC,*9...12</b>
Oct 21 2012	8"	11mmT6	LARGE, LOOSE, GROUP,R=P	
<b>NGC 129</b>		<b>H79-8</b>	<b>Open Cluster 11.0 III 2 m</b>	<b>CL,VL,PR,LC,*9...13</b>
Jul 26 2019	12"	17mmT4	15+ BRIGHT MEMBERS. R=G	
Oct 21 2012	8"	11mmT6	B,L,R=G	
Nov 26 2006	1.9"	12x50	F,L,DIM,RESOVLE 2-3 STARS,R=F	
Nov 09 2006	8"	19mmW	20+, LOOSE, SOME NEB. R=F	
Oct 06 2004	8"	7.5mmW	OVAL,R=G	
<b>NGC 133</b>			<b>Open Cluster IV 1 p</b>	<b>CL,PL,*10...,D*INV</b>
Jul 26 2019	12"	17mm O	12+ MEMBERS. SAME FOV AS NGC-145 & KING 14.	
Sep 05 2007	8"	11mmT6	B,S,R=F	
<b>NGC 136</b>		<b>H35-6</b>	<b>Open Cluster 13.0 II 1 p</b>	<b>GCL,VF,S,EC</b>
Jul 26 2019	12"	17mm O	R=F	
Nov 03 2004	8"	11mmT6		
<b>NGC 146</b>			<b>Open Cluster 11.6 II 2 p</b>	<b>CL,PL,LC,*11-12,D*</b>
Sep 05 2007	8"	11mmT6	B,S,R=F	
<b>NGC 147</b>			<b>Galaxy E5 pec</b>	<b>VF,VL,IR,GSMBM*11</b>
Sep 02 2019	12"	11mmT6	DIFF,VF,S,OVAL,UB,NND,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 185</b>		<b>H707-2</b>	<b>Galaxy E3 pec</b>	<b>PB,VL,IR,VGMBM,R</b>
Jul 23 2006	8"	11mmT6	VF,PL,OVAL,NND,AV,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 189</b>			<b>Open Cluster 11.0 III 1 p</b>	<b>CL,PL,R,*11...15</b>
Jul 26 2019	12"	17mm O	B,S,R=F	
Dec 05 2015	12"	17mmT4		
Sep 05 2007	8"	11mmT6	F,S,R=F	
<b>NGC 225</b>		<b>H78-8</b>	<b>Open Cluster 9.3 III 1 p n</b>	<b>CL,L,LC,*9...10</b>
Jul 26 2019	12"	17mm O	B,L,R=G	
Jul 08 2018	12"	17mmT4	B,S,R=G	
Sep 24 2016	12"	11mmT6	B,L,R=F. SAILBOAT CLUSTER	
Dec 05 2015	12"	17mmT4		
Oct 21 2012	8"	11mmT6	PF,PS,STARS=22-30,R=G	
Sep 15 2004	8"	11mmT6	LIGHT CLOUDS IN & OUT	
<b>NGC 278</b>		<b>H159-1</b>	<b>Galaxy SAB(rs)b</b>	<b>CB,PL,R,2*10NR</b>

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<b>NGC 278</b>		<b>H159-1</b>	<b>Galaxy SAB(rs)b</b>	<b>CB,PL,R,2*10NR</b>
Sep 02 2019 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
Oct 05 2016 12"	11mmT6	F,S,FNUC,R=G		
Jul 23 2006 8"	11mmT6	PF,CS,R,NND,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
<b>NGC 281</b>			<b>Nebula E</b>	<b>F,VL,DIF,STRIP*NP</b>
Sep 26 2019 12"	27m PN	OUTSTANDING OBJECT. OIII FILTER		
Oct 09 2018 12"	8mm Et	F,PL,R=F. BRIGHT NEBULA. NEEDS DARK SKIES. PAC-MAN		
Sep 24 2016 12"	17mmT4	B,L,R=G. NEEDS OIII.		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	8mm Ds	LP2 FILTER		
Oct 26 2014 12"	17mmT4	PAC-MAN NEBULA. GREAT W/OIII FILTER		
Oct 07 2010 12"	17mmAT	F,L,R=G,OIII FILTER, PAC MAN		
Sep 15 2004 8"	11mmT6	NEBULA NOT SEEN!		
<b>NGC 366</b>			<b>Open Cluster 10.0 II 3 m</b>	<b>CL,S</b>
Oct 24 2012 8"	11mmT6	SMALL,FAINT,STARS=6+,R=P		
<b>NGC 381</b>		<b>H64-8</b>	<b>Open Cluster 10.0 III 1 m</b>	<b>CL,PC</b>
Sep 15 2004 8"	11mmT6	LIGHT CLOUDS IN & OUT		
<b>NGC 433</b>			<b>Open Cluster 9.0 III 2 p</b>	<b>CL,S,LC</b>
Oct 24 2012 8"	11mmT6	VS,VF,R=P		
<b>NGC 436</b>		<b>H45-7</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,S,IF,PC</b>
Oct 21 2012 8"	11mmT6	PF,PS,STARS=12-15,R=F		
Nov 26 2006 1.9"	12x50	F,PS,DIM PATCH,R=F		
Sep 19 2004 8"	7.5mmW	TYPICAL CLUSTER		
<b>NGC 457</b>		<b>H42-7</b>	<b>Open Cluster 8.6 II 3 r</b>	<b>CL,B,L,PRI,*7,8,10</b>
Sep 24 2016 12"	11mmT6	B,L,R=G. OWL CLUSTER		
Dec 05 2015 12"	17mmT4	E.T. CLUSTER. AKA OWL CLUSTER		
Oct 21 2012 8"	11mmT6	F,S,STARS=50-60,R=G		
Nov 26 2006 1.9"	12x50	F,L,DIM,PATCHY,R=F		
Nov 09 2006 8"	19mmW	30+,CROSS SHAPED,R=F		
Jul 23 2006 8"	7.5mmW	CB,PL,R=G,EXTENDED GROUP		
Dec 31 2003 8"	25mmPL	H/M COLD		
<b>NGC 559</b>		<b>H48-7</b>	<b>Open Cluster 9.0 I 1 m</b>	<b>CL,B,PL,PRI</b>
Oct 21 2012 8"	11mmT6	B,S,V-SHAPE W/V-TOWARDSNE,SOME NEBULOSITY NOTED,R=G		
Oct 06 2004 8"	7.5mmW	HISB,R=F		
<b>NGC 581</b>	<b>M103</b>		<b>Open Cluster 9.0 II 2 m</b>	<b>CL,PL,B,R,RI,*10..11</b>
Jul 26 2019 12"	17mm O	B,S,R=G		
Oct 09 2018 12"	35mm A	PRETTY NICE		
Dec 05 2015 12"	17mmT4			

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<b>NGC 581</b>	<b>M103</b>	<b>Open Cluster 9.0 II 2 m</b>	<b>CL,PL,B,R,RI,*10..11</b>
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 609</b>		<b>Open Cluster 14.0 II 3 r</b>	<b>CL,S,PRI,*14...</b>
Sep 05 2007 8"	11mmT6	F,S,SCATTERED STARS,R=F	
<b>NGC 637</b>		<b>H49-7</b>	<b>Open Cluster 8.0 I 2 m</b>
Oct 21 2012 8"	11mmT6	B,S,Y-SHAPED STARS=10-12,SOME NEBULOSITY NOTED,R=G	<b>CL,PS,B\$VF ST</b>
Oct 06 2004 8"	7.5mmW	R=F, NOT MANY STARS	
<b>NGC 654</b>		<b>H46-7</b>	<b>Open Cluster 10.0 II 2 r</b>
Oct 21 2012 8"	11mmT6	F,S,LOOSE,STARS=15-20,R=F	<b>CL,IF,RI,1*6.7,</b>
Sep 15 2004 8"	11mmT6	FEWER STARS	
<b>NGC 657</b>		<b>Open Cluster 7.1</b>	<b>CL,PRI,ST12</b>
Oct 24 2012 8"	11mmT6	VS,VF,R=P	
<b>NGC 659</b>		<b>H65-8</b>	<b>Open Cluster 10.0 I 2 m</b>
Oct 21 2012 8"	11mmT6	PF,PS,STARS=10-12,R=F	<b>CL,LRI,ST B</b>
Sep 15 2004 8"	11mmT6	SMALLEST OF THREE IN GROUP	
<b>NGC 663</b>		<b>H31-6</b>	<b>Open Cluster 9.0 II 3 r</b>
Oct 09 2018 12"	8mm Et	B,L,R=G	<b>CL,B,L,ERI,ST PL</b>
Dec 05 2015 12"	17mmT4		
Aug 21 2015 12"	8mm Ds		
Oct 21 2012 8"	11mmT6	B,L,LOOSE,STARS=40-60,R=G	
Nov 26 2006 1.9"	12x50	F,CS,PATCHY,R=F	
Nov 09 2006 8"	19mmW	LOOSE, CLUSTERED SOUTHERN HALF,R=F	
Sep 15 2004 8"	11mmT6	NICE - LOTS OF STARS	
<b>NGC 743</b>		<b>Open Cluster 10.0 IV 1 p</b>	<b>CL,NOTRI,D*</b>
Oct 24 2012 8"	11mmT6	PF,L,LOOSER GROUP,R=F	
<b>NGC 886</b>		<b>Open Cluster 11.0 IV 2 p</b>	<b>CL,L,LC,SC,ST9...13</b>
Oct 24 2012 8"	11mmT6	F,L,R=F, LAST NGC/IC IN CASSIOPEIA	
<b>NGC 896</b>		<b>H695-3</b>	<b>Nebula E</b>
Jul 26 2019 12"	17mm O	CLUSTE W/NEBULA. LP2,R=F	<b>EF,PL,IF</b>

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<b>NGC 896</b>		<b>H695-3</b>	<b>Nebula E</b>	<b>EF,PL,IF</b>
Oct 18 2009 12"	20mmUV	PF,PS, HINT OF NEBULOSITY		
<b>NGC 1027</b>		<b>H66-8</b>	<b>Open Cluster 9.0 II 3 m n</b>	<b>CL,L,SC ST,ONE10M</b>
Jul 26 2019 12"	17mm O	B,S,R=F		
Nov 03 2004 8"	11mmT6			
Oct 06 2004 8"	7.5mmW	R=F, SCATTERED STARS		
<b>NGC 1343</b>		<b>H694-3</b>	<b>Galaxy SAB(s)b: pec</b>	<b>F,VS,IR,GBM,D*V NR</b>
Oct 31 2010 12"	5.5mmN	PF,CS,OVAL,MEXT,UB,NND,R=F. TWO STARS AT WEST EDGE.		
Sep 12 2010 12"	5.5mmN	CF,CS,OVAL,UB,NND,R=F,PA=110		
<b>NGC 7635</b>		<b>H52-4</b>	<b>Nebula E</b>	<b>VF,*8INV L EXCENTRIC</b>
Oct 05 2016 12"	11mmT6	VF,S,R=F. DETECTED SOME NEBULOSITY W/O OIII. LITTLE BETTER WITH OIII.		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
<b>NGC 7654</b>	<b>M52</b>		<b>Open Cluster 11.0 II 2 r</b>	<b>CL,L,RI,MCM,R,*9..13</b>
Jul 13 2020 12"	13mmHV	B,S,R=E		
Jul 26 2019 12"	17mm O	BEST OPEN CLUSTER OF THE NIGHT. R=E.		
Jan 25 2018 12"	11mmT6	NICE OBJECT		
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"	32mmUV	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 7788</b>			<b>Open Cluster I 2 p</b>	<b>CL,S,PRI,VC,*10,13..</b>
Sep 15 2004 8"	11mmT6	LIGHT CLOUDS IN & OUT		
<b>NGC 7789</b>		<b>H30-6</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,VL,VRI,VMC,*11.18</b>
Jul 13 2020 12"	13mmHV	B,L,R=E. SOME NEBULOSITY. LP2		
Sep 26 2019 12"	27m PN	OUTSTANDING OBJECT. OIII FILTER		
Oct 09 2018 12"	8mm Et	B,L,R=E. BEAUTIFUL CLUSTER. CAROLINE'S ROSE		
Jul 08 2018 12"	17mmT4	CAROLINE'S ROSE. OUTSTANDING		
Dec 05 2015 12"	17mmT4	CAROLINE'S ROSE. VERY NICE		
Nov 26 2006 1.9"	12x50	F,S,R=F		
Nov 09 2006 8"	19mmW	15+,PF,R=F		
Jul 24 2006 8"	11mmT6	PB,PL,R=G		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
Dec 31 2003 8"	25mmPL	H/M COLD		



## Cassiopeia - The Queen

**NGC 7790**                      **H56-7**                      **Open Cluster 10.0 II 2 m**                      **CL,PRI,PC**  
Sep 15 2004 8"    11mmT6    LIGHT CLOUDS IN & OUT

**STOCK2**    **Open Cluster I 2 m**  
Dec 05 2015 12"    17mmT4  
Oct 13 2006 1.9"    12x50    B,PL,R=F  
Dec 31 2003 8"    25mmPL    H/M COLD

**STOCK24**    **Open Cluster**  
Jul 26 2019 12"    17mm O    F,S,R=F

## Centaurus - The Centaur

**NGC 5128**    **Galaxy S0 pec**    **VB,VL,VME122,BIFID**  
Mar 21 2009 31"    17mmT4    DIFF,VL,VF,NND,LSB,R=F

## Cepheus - The King

<b>CR 427</b>			<b>Open Cluster IV 1 pn</b>	
Jul 17 2020	12"	13mmHV	VF,PS,R=P	
<b>IC 455</b>			<b>Galaxy S0</b>	
Nov 16 2012	18"	5mm TV	VF,VS,OVAL,NND,R=F	
<b>IC 469</b>			<b>Galaxy SAB(rs)ab:</b>	
Nov 16 2012	18"	5mm TV	VF,VS,OVAL,VEXT,NND,AV2,R=F	
<b>IC 1396</b>			<b>Open Cluster II3mn</b>	
Jul 17 2020	12"	13mmHV	B,L,R=E. LP2	
Jul 13 2020	12"	30mmES	B,PL,R=E. LP2	
Sep 07 2005	8"	19mmW	**STARS,BRIGHT, NICE DUST LANES,R=G	
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 40</b>			<b>H58-4</b>	<b>Planetary Neb 3b+3</b>
Jul 17 2020	12"	8mm Et	F,PS,R=G. LP2, SAW THE CENTRAL STAR	<b>F,VS,R,VSMBM,*12SP</b>
Oct 05 2016	12"	11mmT6	B,VS,R=G. OIII HELPS. NOT SURE ABOUT CENTRAL STAR	
Nov 11 2009	12"	7.5mmW	B,PS,R=G, CENTRAL STAR VISIBLE	
Oct 06 2004	8"	7.5mmW	MB,R,R=G	
<b>NGC 188</b>			<b>Open Cluster 10.0 I 2 r</b>	<b>CL,VL,R,150-200*</b>
Jul 17 2020	12"	8mm Et	F,S,R=F	
Jul 08 2019	12"	11mmT6	F,S,R=F	
Jul 08 2018	12"	17mmT4	F,S,R=G	
Oct 18 2009	12"	11mmT6	PF,S, R=F, TIGHT GROUP	
<b>NGC 1184</b>			<b>H704-2</b>	<b>Galaxy S0/a</b>
Nov 13 2007	8"	11mmT6	VF,VS,OVAL,NND,R=F	<b>F,PL,ME</b>
<b>NGC 1544</b>			<b>Galaxy S?</b>	<b>VF,VS</b>
Jul 31 2011	12"	5mm TV	VF,VS,R,UB,NND,R=F	
<b>NGC 2276</b>			<b>Galaxy SAB(rs)c</b>	<b>F,60",LBM</b>
Jul 17 2020	12"	8mm Et	F,S,OVAL,UB,NND,R=F	
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 2300</b>			<b>Galaxy SA0^</b>	<b>PB,PL,LE,BM</b>
Jul 17 2020	12"	8mm Et	B,S,OVAL,MEXT,UB,FNUC,R=G	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 6939</b>			<b>H42-6</b>	<b>Open Cluster 11.9 II 1 r</b>
Jul 17 2020	12"	8mm Et	F,L,R=G. RICH CLUSTER	<b>CL,PL,ERI,PCM,*11.16</b>
Jul 08 2019	12"	11mmT6	F,S,R=F	
Oct 10 2004	8"	11mmT6	MF,R=F, LARGE O.C. LOTS OF STARS	
Oct 06 2004	8"	7.5mmW	MF,R=F	

## Cepheus - The King

<b>NGC 6946</b>		<b>H76-4</b>	<b>Galaxy SAB(rs)cd</b>	<b>VF,VL,VG,VSBM,RR</b>
Jul 17 2020	12"	13mmHV	F,L,UB,NND,R=G	
Sep 26 2019	12"	17mmT4		
Jul 08 2019	12"	11mmT6	DIFF,PF,L,R,UB,NND,R=F	
Aug 31 2010	12"	7mm TV	DIFF,PF,S,OVAL,MEXT,UB,NND,R=G. PA=180	
Nov 03 2004	8"	11mmT6	MB,OVAL,NND,MSB,R=G	
Oct 10 2004	8"	11mmT6	MF,OVAL,PATCH,NND,R=F	
<b>NGC 6949</b>			<b>Galaxy S?</b>	<b>EF,PS,IR</b>
Nov 16 2012	18"	5mm TV	VF,VS,R,UB,R=F	
<b>NGC 6951</b>			<b>Non-Existent</b>	<b>PB,PL,LE</b>
Jul 17 2020	12"	8mm Et	PF,S,OVAL,UB,NND,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 6952</b>			<b>Galaxy SAB(rs)bc</b>	<b>PB,OVAL,DIF,*15NR F</b>
Aug 25 2011	12"	5mm TV	PF,CS,R,UB,FNUC,R=G	
<b>NGC 7023</b>		<b>H74-4</b>	<b>Nebula R</b>	<b>*7IN EF,EL,NEBY</b>
Jul 17 2020	12"	13mmHV	F,S,R=G. LP2	
Jul 08 2018	12"	17mmT4	B,L,R=E. IRIS NEBULA	
Nov 13 2007	8"	19mmW	PF,PS,HINT OF NEBULOSITY,R=F	
<b>NGC 7129</b>		<b>H75-4</b>	<b>Nebula IV 2 p n</b>	<b>CF,PL,GBM***</b>
Jul 17 2020	12"	13mmHV	F,S,R=F. LP2 NEBULA JUST DETECTED	
Nov 13 2007	8"	19mmW	PF,CS,LOOSE CLUSTER, HINT OF NEBULOSITY,R=F	
<b>NGC 7139</b>		<b>H696-3</b>	<b>Planetary Neb 3b</b>	<b>VF,CS,R,R</b>
Jul 17 2020	12"	8mm Et	VF,S,R=G. NO CENTRAL STAR	
Oct 18 2009	12"	11mmT6	VF,PS,R=F. NO OTHER DETAIL = FAINT SMUDGE	
<b>NGC 7142</b>		<b>H66-7</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,CL,CRI,PC,*11..14</b>
Jul 17 2020	12"	13mmHV	F,S,R=F	
Nov 03 2004	8"	11mmT6		
<b>NGC 7160</b>		<b>H67-8</b>	<b>Open Cluster 7.0 I 3 p</b>	<b>CL,P,VLC</b>
Jul 17 2020	12"	13mmHV	F,S,R=F	
Jul 21 2007	1.9"	12x50	PF,PS,AV,R=F	
Nov 09 2006	8"	19mmW	VS, COMPRESSED,R=F	
Jul 24 2006	8"	11mmT6	PB,S,R=F	
Aug 23 2004	8"	11mmT6	DAMP - SEEING NOT TOO BAD.	
<b>NGC 7226</b>			<b>Open Cluster 10.8 I 2 m</b>	<b>PB,L,IN CLUSTER</b>
Jul 17 2020	12"	13mmHV	PF,PS,R=P	
Oct 18 2009	12"	11mmT6	PF,PS,,R=F. RESOLVE OUTER STARTS	
<b>NGC 7235</b>			<b>Open Cluster 8.8 II 3 m</b>	<b>CL,PC,HAS RUBY*10</b>

## Cepheus - The King

<b>NGC 7235</b>			<b>Open Cluster 8.8 II 3 m</b>	<b>CL,PC,HAS RUBY*10</b>
Jul 17 2020	12"	13mmHV	F,S,R=G. COMPACT	
Jul 21 2007	1.9"	12x50	B,PS,R=F	
<b>NGC 7261</b>			<b>Open Cluster 9.6 II 3 m</b>	<b>CL,L,PRI,LC</b>
Jul 17 2020	12"	13mmHV	F,S,R=G. LITTLE LARGER THAN NGC-7235	
Oct 18 2009	12"	11mmT6	PB,PS,R=G. RESOLVE AROUND 20+ STARS	
<b>NGC 7354</b>		<b>H705-2</b>	<b>Planetary Neb 4+3b</b>	<b>PLN,B,S,R,PGVLBM</b>
Jul 17 2020	12"	8mm Et	F,VS,R=F. LP2 DID NOT SEE CENTRAL STAR	
Sep 07 2005	8"	11mmT6	MB,ML,R,MSB,R=G	
<b>NGC 7380</b>		<b>H77-8</b>	<b>Open Cluster 10.0 III 2 m n</b>	<b>CL,PL,PRI,LC,*9...13</b>
Jul 17 2020	12"	13mmHV	F,L,R=G. NEBULA JUST DETECTED	
Jul 24 2006	8"	11mmT6	PB,CS,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 7419</b>		<b>H43-7</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,PRI,CC</b>
Jul 17 2020	12"	13mmHV	F,L,R=F	
Nov 13 2007	8"	11mmT6	VF,VS,FAINT SMUDGE,R=F	
<b>NGC 7510</b>		<b>H44-7</b>	<b>Open Cluster 10.0 II 3 r n</b>	<b>CL,PRI,PC,FAN-SH,B*P</b>
Jul 17 2020	12"	13mmHV	F,S,R=G, STAR BAR RUNS NW TO SE. SAME FOV AS KING-19	
Mar 04 2006	8"	19mmW	B,S,R=G	
<b>NGC 7538</b>		<b>H706-2</b>	<b>Nebula E</b>	<b>VF,L,2PB*INV</b>
Nov 28 2010	12"	11mmT6	PF,PS,R=F,HINT OF NEBULOSITY, OIII FILTER	
<b>NGC 7708</b>		<b>H62-8</b>	<b>Open Cluster 7.3 asterism?</b>	<b>CL,L,P,LC,*8,10...15</b>
Oct 24 2012	8"	11mmT6	LARGE AND LOOSE,R=F	
<b>NGC 7762</b>		<b>H55-7</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PRI,PC,*11...15</b>
Jul 17 2020	12"	13mmHV	F,PS,R=F	
Nov 13 2007	8"	11mmT6	PF,PS,FAINT,R=F	
<b>NGC 7822</b>			<b>Nebula R</b>	<b>EEF,EEL</b>
Jul 17 2020	12"	13mmHV	F,L,R=F. LP2	
<b>PAL 1</b>			<b>Globular</b>	
Jul 17 2020	12"	8mm Et	VF,PS,R=P	
Sep 19 2014	18"	8mm Ds	VF,VS,AVII,R=F,, WRO - 9/19/14	
Sep 14 2012	18"	7mm TV	VF,PS,R=F,FAINT SMUDGE OF A GLOBULAR	

## Cetus - The Whale

<b>IC 2</b>		<b>Galaxy Sb</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F	
<b>IC 176</b>		<b>Galaxy Sc:</b>	
Dec 12 2012 36"	17mmT4	VF,PS,EON,UB,NND,R=P,PA=95	
<b>IC 194</b>		<b>Galaxy Sb: sp</b>	
Dec 12 2012 36"	17mmT4	VFR,VS,EON,UB,NND,R=P,PA=10	
<b>IC 1529</b>		<b>Galaxy (R')SA(r)0^ p</b>	
Nov 10 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,R=F	
<b>MAC 0237+0716</b>		<b>Galaxy</b>	
Dec 12 2012 36"	17mmT4	VF,VS,R,NND,AV2,R=F	
<b>NGC 17</b>		<b>Galaxy Pec</b>	<b>VF,ES,IR,D*2'P</b>
Dec 12 2012 36"	17mmT4	PB,PS,OVAL,PEXT,BNUC,R=G	
<b>NGC 35</b>		<b>Galaxy Sb</b>	<b>EEF,PS,R</b>
Dec 12 2012 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 45</b>		<b>Galaxy SA(s)dm</b>	<b>EF,L,VGVLBM,L*CONT F</b>
Dec 12 2012 36"	17mmT4	DIFF,PF,PS,OVAL,UB.,NND,R=F	
<b>NGC 47</b>		<b>Galaxy SBbc</b>	<b>VF,VS</b>
Dec 12 2012 36"	17mmT4	PF,PS,R,FNUC,R=F,AKA NGC-58	
<b>NGC 50</b>		<b>Galaxy S0- pec</b>	<b>VF</b>
Dec 12 2012 36"	17mmT4	PF,PS,R,BNUC,R=F	
<b>NGC 62</b>		<b>Galaxy (R)SB(r)a:</b>	<b>F,VS,R,GLBM</b>
Nov 10 2012 18"	7mm TV	PF,VS,OVAL,UB,NND,R=F	
<b>NGC 64</b>		<b>Galaxy SB(s)bc</b>	<b>EEF,VS,R,VDIFFIC</b>
Nov 10 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,R=F	
<b>NGC 132</b>		<b>H855-2 Galaxy SAB(s)bc</b>	<b>PF,CL,R,VGLBM,R</b>
Nov 28 2010 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PA=30	
<b>NGC 145</b>		<b>Galaxy SB(s)dm</b>	<b>F,PL,VLE,VGBM,*8 F5'</b>
Jul 26 2019 12"	17mm O	15+ MEMBERS. SAME FOV AS NGC-133 & KING 14	
<b>NGC 151</b>		<b>H478-2 Galaxy SBbc</b>	<b>PF,PL,LE90,VGLBM</b>
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,FNUC,HSB,R=G	
<b>NGC 153</b>		<b>Non-Existent</b>	<b>PF,PS,R,*NR NF</b>
Dec 16 2009 12"	7.5mmW	PF,PS,OVAL,UB,NND,R=F	

## Cetus - The Whale

<b>NGC 154</b>		<b>H467-3</b>	<b>Galaxy E</b>	<b>EF,VS,R</b>
Nov 28 2010 12"	7mm TV	CF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 157</b>		<b>H3-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>PB,L,E,BET2CB*</b>
Nov 03 2004 8"	11mmT6	MB,EL,NND,MSB,R=G		
<b>NGC 163</b>		<b>H954-3</b>	<b>Galaxy E0</b>	<b>VF,VS</b>
Nov 28 2010 12"	7mm TV	CF,CS,R,FNUC,R=F		
<b>NGC 165</b>			<b>Galaxy SB(rs)bc</b>	<b>F,L,*INCENTRE,F OF 2</b>
Nov 28 2010 12"	7mm TV	DIFF,CF,PS,R,NND,R=F		
<b>NGC 171</b>		<b>H223-3</b>	<b>Galaxy SB(r)ab</b>	<b>VF,PL,LE,2PB*SF</b>
Dec 16 2009 12"	7.5mmW	VF,PS,R,NND,R=F		
<b>NGC 173</b>		<b>H871-3</b>	<b>Galaxy SA(rs)c</b>	<b>VF,S,R,VGBM,*11SP1'</b>
Nov 28 2010 12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F,PA=100		
<b>NGC 191</b>		<b>H479-2</b>	<b>Galaxy SAB(rs)c: pec</b>	<b>PB,PL,IE0,</b>
Nov 28 2010 12"	7mm TV	CF,CS,R,UB,NND,R=F		
<b>NGC 192</b>		<b>H872-3</b>	<b>Galaxy (R')SB(r)a:</b>	<b>F,PS,PME,BM</b>
Nov 28 2010 12"	7mm TV	PF,PS,EON,FNUC,R=F,PA=175		
<b>NGC 196</b>		<b>H860-2</b>	<b>Galaxy SB0 pec:</b>	<b>F,PS,R,PSMBM</b>
Nov 28 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 201</b>		<b>H873-3</b>	<b>Galaxy SAB(r)c</b>	<b>VF,CL,E,VGLBM</b>
Nov 28 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F,AV1		
<b>NGC 210</b>		<b>H452-2</b>	<b>Galaxy SAB(s)b</b>	<b>B,PS,R,PSBM,R,*11P2'</b>
Dec 16 2009 12"	7.5mmW	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 216</b>		<b>H244-3</b>	<b>Galaxy S0^? sp</b>	<b>EF,VS,LE</b>
Nov 28 2010 12"	7mm TV	PF,CS,EON,UB,NND,R=F,PA=45		
<b>NGC 217</b>		<b>H480-2</b>	<b>Galaxy S0/a: sp</b>	<b>F,S,LE90,GLBM</b>
Nov 10 2007 31"	17mmT4	PB,PS,EON,FNUC,R=G		
<b>NGC 227</b>		<b>H444-2</b>	<b>Galaxy S0- pec:</b>	<b>F,PL,LBM</b>
Nov 28 2010 12"	5.5mmN	DIFF,VF,PS,OVAL,UB,NND,R=F,AV3		
<b>NGC 244</b>		<b>H485-3</b>	<b>Galaxy S0 pec?</b>	<b>VF,S,IR,R,*10S5'</b>
Nov 28 2010 12"	7mm TV	PF,CS,OVAL,FNUC,R=F,PA=45		
<b>NGC 245</b>		<b>H445-2</b>	<b>Galaxy SA(rs)b pec?</b>	<b>F,PS,IF,ER</b>
Nov 28 2010 12"	7mm TV	PF,PS,OVAL,FNUC,R=F,PA=125		

## Cetus - The Whale

<b>NGC 247</b> Nov 21 2006 8"	19mmW	<b>H20-5</b> F,L,EON,NND,R=F	<b>Galaxy SAB(s)d</b>	<b>F,EL,VME172</b>
<b>NGC 255</b> Nov 28 2010 12"	7mm TV	<b>H472-2</b> PF,PS,R,FNUC,R=F	<b>Galaxy SAB(rs)bc</b>	<b>F,PS,R,GBM</b>
<b>NGC 259</b> Nov 28 2010 12"	7mm TV	<b>H621-2</b> CF,CS,EON,UB,NND,R=F,AV1,PA=160	<b>Galaxy Sbc: sp</b>	<b>F,S,E135,LBM</b>
<b>NGC 268</b> Nov 28 2010 12"	7mm TV	<b>H463-3</b> PF,CS,OVAL,UB,NND,R=F,PA=35	<b>Galaxy SB(s)bc:</b>	<b>VF,PS,ILE,R</b>
<b>NGC 270</b> Nov 28 2010 12"	7mm TV	<b>H955-3</b> PF,PS,OVAL,FNUC,R=F,PA=15	<b>Galaxy S0+</b>	<b>PF,VS,IR,PGBM</b>
<b>NGC 271</b> Nov 28 2010 12"	7mm TV	<b>H446-2</b> CF,CS,OVAL,UB,NND,R=F,AV1	<b>Galaxy (R')SB(rs)ab</b>	<b>PF,S,LE,PSBM,*8F5S</b>
<b>NGC 274</b> Nov 28 2010 12"	7mm TV	<b>H429-3</b> PF,PS,R,FNUC,R=F,PAIRED W/NGC-275	<b>Galaxy SAB(r)0- pec</b>	<b>PB,PS,SMBM,NP OF2</b>
<b>NGC 275</b> Nov 28 2010 12"	7mm TV	<b>H429-3</b> PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-274	<b>Galaxy SB(rs)cd pec</b>	<b>VF,S,R,SF OF 2</b>
<b>NGC 337</b> Nov 10 2007 31"	17mmT4	<b>H433-2</b> PB,PL,OVAL,UB,NND,R=G	<b>Galaxy SB(s)d</b>	<b>PF,L,E,GLBM,*10F21S</b>
<b>NGC 337A</b> Nov 10 2007 31"	17mmT4	<b>H433-2</b> DIFF,PF,CL,OVAL,NND,R=F	<b>Galaxy SAB(s)dm</b>	
<b>NGC 355</b> Nov 10 2007 31"	17mmT4	<b>H433-2</b> PF,PS,EON,NND,AV,R=F	<b>Galaxy SB0^ pec:</b>	<b>EF,VS</b>
<b>NGC 357</b> Nov 10 2007 31"	17mmT4	<b>H434-2</b> PB,PS,OVAL,BNUC,R=G	<b>Galaxy SB(r)0/a:</b>	<b>F,S,IR,SBM,*14NF20"</b>
<b>NGC 428</b> Nov 10 2007 31"	17mmT4	<b>H622-2</b> PB,PL,OVAL,UB,NND,R=G	<b>Galaxy SAB(s)m</b>	<b>F,L,R,BM,ER</b>
<b>NGC 584</b> Nov 21 2006 8"	11mmT6	<b>H100-1</b> B,PS,OVAL,FNUC,R=G	<b>Galaxy E4</b>	<b>VB,PL,R,MBM,P OF 2</b>
<b>NGC 596</b> Nov 21 2006 8"	11mmT6	<b>H4-2</b> F,PS,OVAL,FNUC,R=G	<b>Galaxy E+ pec:</b>	<b>PB,R,BM,R,*6F12'</b>
<b>NGC 600</b> Nov 21 2006 8"	11mmT6	<b>H432-3</b> F,S,R,NND,R=F	<b>Galaxy (R')SB(rs)d</b>	<b>EEF</b>

## Cetus - The Whale

<b>NGC 615</b> Nov 21 2006 8"	11mmT6	<b>H282-2</b> VF,VS,OVAL,NND,R=F	<b>Galaxy SA(rs)b</b>	<b>PB,PL,ILE,GBM,*8NP10</b>
<b>NGC 636</b> Nov 10 2007 31"	17mmT4	<b>H283-2</b> PB,PS,OVAL,BNUC,R=G	<b>Galaxy E3</b>	<b>PB,VS,R,MBM,R</b>
<b>NGC 720</b> Nov 21 2006 8"	11mmT6	<b>H105-1</b> B,PS,OVAL,NND,R=F	<b>Galaxy E5</b>	<b>CB,PL,LE,PSMBM</b>
<b>NGC 779</b> Nov 21 2006 8"	11mmT6	<b>H101-1</b> F,L,EON,NND,R=F	<b>Galaxy SAB(r)b</b>	<b>CB,L,ME162,MBM</b>
<b>NGC 908</b> Nov 21 2006 8"	11mmT6	<b>H153-1</b> PF,L,OVAL,NND,R=F	<b>Galaxy SA(s)c</b>	<b>CB,VL,E</b>
<b>NGC 936</b> Nov 21 2006 8"	11mmT6	<b>H23-4</b> B,LOVAL,NND,R=F	<b>Galaxy SB(rs)0+</b>	<b>VB,VL,R,MBMN,P OF 2</b>
<b>NGC 941</b> Nov 21 2006 8"	11mmT6	<b>H261-3</b> VF,S,OVAL,NND,V,R=F	<b>Galaxy SAB(rs)c</b>	<b>VF,CL,R,F OF 2</b>
<b>NGC 991</b> Dec 16 2009 12"	7.5mmW	<b>H434-3</b> VF,PS,R,UB,NND,AV,R=F	<b>Galaxy SAB(rs)c</b>	<b>VF,CL,IF,VLBM</b>
<b>NGC 997</b> Dec 12 2012 36"	17mmT4	<b>H261-3</b> VF,S,OVAL,NND,V,R=F	<b>Galaxy E</b>	<b>F,S</b>
<b>NGC 998</b> Dec 12 2012 36"	17mmT4	<b>H434-3</b> VF,PS,R,UB,NND,AV,R=F	<b>Galaxy S</b>	<b>VF</b>
<b>NGC 1022</b> Nov 21 2006 8"	11mmT6	<b>H102-1</b> PF,L,OVAL,NND,R=F	<b>Galaxy (R')SB(s)a</b>	<b>CB,PL,R,MBM,*11NF 2'</b>
<b>NGC 1032</b> Nov 13 2007 8"	11mmT6	<b>H5-2</b> VF,VS,R,NND,AV,R=F	<b>Galaxy S0/a sp</b>	<b>PB,S,VLE,BM,3*TRAP</b>
<b>NGC 1035</b> Nov 13 2007 8"	11mmT6	<b>H284-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)c?</b>	<b>PF,L,ME,R,*17ATT SF</b>
<b>NGC 1045</b> Nov 08 2010 12"	11mmT6	<b>H488-2</b> CF,PS,EON,FNUC,R=F,PA=115	<b>Galaxy SA0- pec?</b>	<b>F,S,R,BM</b>
<b>NGC 1052</b> Nov 21 2006 8"	11mmT6	<b>H63-1</b> B,L,R,FNUC,R=G	<b>Galaxy E4</b>	<b>B,PL,R,MBM*12</b>
<b>NGC 1055</b> Dec 16 2009 12"	11mmT6	<b>H1-1</b> PB,L,EON,UB,HSB,R=G	<b>Galaxy SBb: sp</b>	<b>PF,CL,IE80,BM,*11N1'</b>



## Cetus - The Whale

<b>NGC 1055</b>		<b>H1-1</b>	<b>Galaxy SBb: sp</b>	<b>PF,CL,IE80,BM,*11N1'</b>
Nov 21 2006 8"	11mmT6	PF,S,OVAL,NND,R=F		
<b>NGC 1068</b>	<b>M77</b>		<b>Galaxy (R)SA(rs)b</b>	<b>VB,PL,IR,SBMRRN</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 1070</b>		<b>H273-2</b>	<b>Galaxy Sb</b>	<b>PF,S,IR,GBM</b>
Nov 02 2005 31"	19mmW	PB,PL,OVAL,FNUC,MSB,R=G		
<b>NGC 1073</b>		<b>H455-3</b>	<b>Galaxy SB(rs)c</b>	<b>VF,L,LBM,ER</b>
Nov 13 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 1087</b>		<b>H466-2</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,CL,LE,MBM</b>
Oct 31 2010 12"	5.5mmN	PF,PS,OVAL,UB,NND,R=F,PA=80		
<b>NGC 1090</b>		<b>H465-2</b>	<b>Galaxy SB(rs)bc</b>	<b>VF,PL,IR,BM</b>
Oct 31 2010 12"	5.5mmN	DIFF,PF,PS,EON,UB,NND,AV,R=F,PA=170		
<b>NGC 7808</b>			<b>Galaxy (R')SA0^:</b>	<b>EF,VS,R,STELL N,*8SP</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,R=F		
<b>PGC 971</b>			<b>Galaxy S0</b>	
Dec 12 2012 36"	17mmT4	PF,VSW,OVAL,UB,NND,R=-F		
<b>PGC 972</b>			<b>Galaxy</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F		
<b>PGC 2526</b>			<b>Galaxy SB(s)cd? sp</b>	
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=90,STAR AT WEST TIP		
<b>PGC 2800</b>			<b>Galaxy (R')SBb:</b>	
Dec 12 2012 36"	17mmT4	VF,VS,EON,UB,NND,R=F,60 DEGREES FROM NORTH		
<b>PGC 2805</b>			<b>Galaxy SBd pec sp</b>	
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=75,STAR NW OF GX		
<b>PGC 4063</b>			<b>Galaxy SB(s)d? sp</b>	
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=90		
<b>PGC 6966</b>			<b>Galaxy SA(s)c? sp</b>	
Dec 12 2012 36"	17mmT4	PF,PS,EON,FUC,R=G,PA=170.OFFSET BULGE TOWARDS NORTH		

## Cetus - The Whale

**PGC 7244** **Galaxy Sbc: sp**  
Dec 12 2012 36" 17mmT4 VG,VS,EON,NND,R=P,PA=140

**PGC 8913** **Galaxy SB(s)m: sp**  
Dec 12 2012 36" 17mmT4 VF,VS,EON,NND,R=P,PA=60

**PGC 9904** **Galaxy Scd:**  
Dec 12 2012 36" 17mmT4 VF,PS,EON,NND,AV2,R=P,PA=25

**PGC 11252** **Galaxy Sd**  
Dec 12 2012 36" 17mmT4 PF,PS,EON,UB,NND,R=F

## Cancer - The Crab

<b>ABELL 31</b>			<b>Planetary Neb 3a</b>	
Mar 15 2005 8"	11mmT6	VF,PATCHY,LARGE,R=F		
<b>NGC 2507</b>		<b>H554-2</b>	<b>Galaxy S0/a pec</b>	<b>PB,PL,IR,VGBM,ER,*S</b>
Mar 17 2010 12"	11mmT6	VF,VS,OVAL,UB,NND,AV,R=F		
<b>NGC 2513</b>		<b>H512-3</b>	<b>Galaxy E</b>	<b>F,S,R,PSMBM,R</b>
Mar 17 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 2535</b>			<b>Galaxy SA(r)c pec</b>	<b>EF,VS,R</b>
Mar 15 2005 8"	11mmT6	VF,MS,EON,OVAL,NND,AV,R=F		
<b>NGC 2545</b>		<b>H627-2</b>	<b>Galaxy (R)SB(r)ab</b>	<b>F,S,LE45,*8NP4'</b>
Mar 20 2007 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2554</b>		<b>H303-2</b>	<b>Galaxy S0/a</b>	<b>F,S,R,MBM,R</b>
Feb 21 2020 36"	17mmT4	PF,L,OVAL,MEXT,BNUC,R=G		
Mar 17 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2562</b>		<b>H607-3</b>	<b>Galaxy S0/a:</b>	<b>VF,CS,R</b>
Feb 21 2020 36"	17mmT4	B,S,OVAL,MEXT,FNUC,R=G		
Mar 20 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2563</b>		<b>H634-2</b>	<b>Galaxy S0^:</b>	<b>CF,S,R,BM</b>
Feb 21 2020 36"	17mmT4	B,S,OVAL,PEXT,FNUC,R=G		
Mar 15 2005 8"	11mmT6	VF,VS,EON,OVAL,NND,AV,R=F		
<b>NGC 2565</b>			<b>Galaxy (R')SBbc:</b>	<b>F,BIN</b>
Mar 17 2010 12"	11mmT6	PF,CS,OVAL,NND,R=F		
<b>NGC 2577</b>		<b>H259-2</b>	<b>Galaxy S0-:</b>	<b>F,S,IF,R</b>
Mar 17 2010 12"	28mm	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 2592</b>		<b>H315-2</b>	<b>Galaxy E</b>	<b>PF,S,R,VSBM*</b>
Mar 17 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2595</b>		<b>H599-3</b>	<b>Galaxy SAB(rs)c</b>	<b>VF,PL,IF,R,D*SP2'</b>
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2599</b>		<b>H234-3</b>	<b>Galaxy SAa</b>	<b>VF,S,STELLAR</b>
Mar 17 2010 12"	11mmT6	PF,PS,OVAL,R,UB,NND,R=F		
<b>NGC 2604</b>		<b>H292-3</b>	<b>Galaxy SB(rs)cd</b>	<b>VF,PL,R,LBM,R,D*NR</b>
Mar 17 2010 12"	11mmT6	DIFF,,VF,CS,OVAL,NND,R=F		
<b>NGC 2608</b>		<b>H318-2</b>	<b>Galaxy SB(s)b:</b>	<b>F,VLE,MBM,R</b>
Mar 20 2007 8"	11mmT6	PF,VS,OVAL,NND,AV,R=F		

## Cancer - The Crab

<b>NGC 2619</b>		<b>H319-2</b>	<b>Galaxy Sbc</b>	<b>F,PS,R,BM,R</b>
Mar 17 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 2632</b>	<b>M44</b>		<b>Open Cluster 6.0 II 3 m</b>	<b>PRAESEPE CANCRI</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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>NGC 2648</b>		<b>H49-3</b>	<b>Galaxy Sa</b>	<b>F,S,VLE135,PSBM</b>
Apr 05 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F		
<b>NGC 2657</b>			<b>Galaxy SA(rs)d:</b>	<b>VF,VS,IR,F*ATT F</b>
Mar 17 2010 12"	11mmT6	VF,VS,OVAL,UB,NND,AV,R=P		
<b>NGC 2661</b>		<b>H50-3</b>	<b>Galaxy Scd:</b>	<b>EF,CL,R,LBM</b>
Mar 17 2010 12"	11mmT6	VF,VS,R,NND,AV,R=P		
<b>NGC 2672</b>		<b>H48-2</b>	<b>Galaxy E1-2</b>	<b>PB,PL,IR,MBM</b>
Mar 20 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
Mar 15 2005 8"	11mmT6	MF,ML,OVAL,PATCH,NND,R=F		
<b>NGC 2673</b>			<b>Galaxy E0 pec</b>	<b>VF,VS,CLOSE F2672</b>
Mar 17 2010 12"	11mmT6	PF,PS,R,UB,NND,R=F		
<b>NGC 2682</b>	<b>M67</b>		<b>Open Cluster 9.0 II 3 r</b>	<b>CL,VB,VL,ERI,LC,*10.</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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 2730</b>			<b>Galaxy SBdm:</b>	<b>VF,L,R</b>
Mar 17 2010 12"	11mmT6	VF,CS,R,UB,NND,AV,R=F		
<b>NGC 2738</b>			<b>Galaxy S?</b>	<b>PB,S,IF,D W/2737</b>
Mar 17 2010 12"	11mmT6	VF,CS,OVAL,EXT,NND,AV,R=P		

## Cancer - The Crab

<b>NGC 2744</b>		<b>H60-3</b>	<b>Galaxy SB(s)ab: pec</b>	<b>VF,S,R,R,D* NR</b>
Mar 17 2010 12"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 2749</b>			<b>Galaxy E3</b>	<b>PF,S,R,BMN=*15</b>
Mar 15 2005 8"	11mmT6	MB,ML,EL,OVAL,NND,R=G		
<b>NGC 2750</b>		<b>H291-3</b>	<b>Galaxy SABc</b>	<b>VF,CL,R,BMN,2C *P</b>
Mar 20 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 2764</b>		<b>H236-3</b>	<b>Galaxy S0:</b>	<b>CF,VS,R,ER,BET2PB*</b>
Mar 20 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2775</b>		<b>H2-1</b>	<b>Galaxy SA(r)ab</b>	<b>CB,CL,R,VGVSMBM,R</b>
Mar 15 2005 8"	11mmT6	MB,ML,OVAL,PATCH,NND,R=G		
<b>NGC 2777</b>			<b>Galaxy Sab?</b>	<b>F,S</b>
Mar 17 2010 12"	11mmT6	VF,VS,,R,NND,AV,R=P		
<b>NGC 2783</b>		<b>H295-3</b>	<b>Galaxy E</b>	<b>VF,VS,R,2PB* SP</b>
Mar 17 2010 12"	11mmT6	PF,CS,OVAL,UB,FNUC,R=F		
<b>NGC 2789</b>			<b>Galaxy S0/a</b>	<b>PF,S,R,GBM</b>
Mar 17 2010 12"	11mmT6	PF,PS,OVAL,UB,FNUC,R=F		
<b>NGC 2794</b>			<b>Galaxy SB?</b>	<b>EF,VS,SP OF 2</b>
Mar 17 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 2795</b>			<b>Galaxy E</b>	<b>EF,VS,NF OF 2</b>
Mar 17 2010 12"	11mmT6	CF,CS,OVAL,NND,R=F		
<b>NGC 2804</b>			<b>Galaxy S0</b>	<b>VF,S,R</b>
Mar 17 2010 12"	11mmT6	VF,CS,OVAL,NND,AV,R=P		
<b>NGC 2809</b>			<b>Galaxy S0</b>	<b>VF,S,R</b>
Mar 17 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
<b>PGC 22506</b>			<b>Galaxy Sb</b>	
Feb 17 2012 18"	7mm TV	VF,VS,EON,AV,R=F. AKA - UGC-4171, A.L. FLAT GALAXY		

## Columba - The Dove

<b>NGC 1808</b>			<b>Galaxy (R)SAB(s)a</b>	<b>B,L,E,PSBM</b>
Nov 22 2006 8"	11mmT6	F,L,OVAL,NND,R=F		

## Coma Berenices - Berenice's Hair

<b>CR</b>	<b>256</b>		<b>Open Cluster III3r</b>
Sep 19 2014	12"	35mm A	B,VL,R=G, NICE LOOSE GROUP, HOME - 8/14/14
Jul 21 2007	1.9"	12x50	B,VL,PRETTY LOOSE,R=G
Nov 26 2006	1.9"	12x50	B,PL,LOOSE,R=F
<b>IC</b>	<b>834</b>		<b>Galaxy S</b>
May 18 2009	31"	17mmT4	PF,CS,OVAL,FNUC.MHISB,R=F
<b>IC</b>	<b>835</b>		<b>Galaxy S?</b>
May 18 2009	31"	17mmT4	CF,CL,R,UB,NND,R=F
<b>IC</b>	<b>858</b>		<b>Galaxy S0?</b>
May 12 2005	31"	19mmW	MB,ML,OVAL,FNUC,MHISB,R=G
<b>IC</b>	<b>859</b>		<b>Galaxy</b>
May 12 2005	31"	19mmW	MB,FS,R,FNUC,R=F
<b>IC</b>	<b>3476</b>		<b>Galaxy IB(s)m:</b>
Jun 09 2007	8"	11mmT6	PF,PS,R,NND,R=F
<b>IC</b>	<b>3900</b>		<b>Galaxy SB0:</b>
May 18 2009	31"	17mmT4	PB,CS,OVAL,UB,NND,R=F
<b>IC</b>	<b>3913</b>		<b>Galaxy S?</b>
May 18 2009	31"	17mmT4	DIFF,CF,VS,OVAL,NND,R=F
<b>MAC</b>	<b>1255+2736A</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	DIFF,VF,VS,OVAL,NND,R=F
<b>MAC</b>	<b>1255+2756</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>MAC</b>	<b>1255+2815</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>MAC</b>	<b>1255+2824</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	EF,VS,R,NND,AV,R=P
<b>MAC</b>	<b>1255+2900</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	VF,VS,R,NND,AV,R=F
<b>MAC</b>	<b>1256+2725</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	PF,PS,OVAL,FNUC,R=F
<b>MAC</b>	<b>1256+2726</b>		<b>Galaxy</b>
May 18 2009	31"	17mmT4	VF,VS,R,NND,R=F

## Coma Berenices - Berenice's Hair

<b>MAC 1256+2730</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 1256+2732</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
May 18 2009 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 1256+2738</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	PF,VS,NND,UB,R=F		
<b>MAC 1256+2741</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>MAC 1256+2743</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>MAC 1256+2749</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	PB,CS,R,FNUC,R=F		
<b>MAC 1256+2750</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	PB,CS,R,FNUC,R=F		
<b>MAC 1256+2802</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>MAC 1256+2818</b>			<b>Galaxy</b>	
May 18 2009 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 1310+1817</b>			<b>Galaxy</b>	
May 12 2005 31"	19mmW	VF,ML,R,NND,AV,R=F		
<b>MAC 1310+1818</b>			<b>Galaxy</b>	
May 12 2005 31"	19mmW	VF,ML,EL,EON,NND,R=F		
<b>MAC 1310+1825</b>			<b>Galaxy</b>	
May 12 2005 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
<b>MAC 1311+1825</b>			<b>Galaxy</b>	
May 12 2005 31"	12mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>MAC 1314+1700</b>			<b>Galaxy</b>	
May 12 2005 31"	19mmW	MB,ML,OVAL,FNUC,R=G		
<b>NGC 4032</b>		<b>H404-2</b>	<b>Galaxy Im:</b>	<b>PF,PL,R,GBM,*12NF</b>
Jun 09 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
<b>NGC 4037</b>		<b>H77-3</b>	<b>Galaxy SB(rs)b:</b>	<b>EF,PL,R,R</b>

## Coma Berenices - Berenice's Hair

<b>NGC 4037</b>		<b>H77-3</b>	<b>Galaxy SB(rs)b:</b>	<b>EF,PL,R,R</b>
Mar 08 2010 12"	11mmT6	VF,PS,OVAL,NND,R=F		
<b>NGC 4064</b>			<b>Galaxy SB(s)a: pec</b>	<b>B,E,GBM</b>
Mar 08 2010 12"	11mmT6	PF,CS,OVAL,MEXT,RNUC,R=F		
<b>NGC 4104</b>		<b>H370-2</b>	<b>Galaxy S0</b>	<b>PB,PS,LE,BM</b>
Mar 08 2010 12"	11mmT6	CF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 4136</b>		<b>H321-2</b>	<b>Galaxy SAB(r)c</b>	<b>F,VL,VGMBM</b>
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=G		
Jun 09 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F		
<b>NGC 4147</b>		<b>H19-1</b>	<b>Globular</b>	<b>GCL,VB,PL,R,GBM,RRR</b>
Jun 19 2020 12"	13mmHV	R=G		
Apr 20 2018 12"	11mmT6			
May 30 2016 12"	8mm Et	PF,PS,R=F. UNRESOLVED STARS		
Mar 29 2006 8"	11mmT6	F,S,R,NND,R=F CLASS IX		
Apr 13 2005 8"	7.5mmW	R,MSB,R=G		
<b>NGC 4150</b>		<b>H73-1</b>	<b>Galaxy SA(r)0<sup>+</sup>?</b>	<b>B,S,R,PGMBM</b>
Mar 29 2006 8"	11mmT6	B,L,R,FNUC,R=F		
<b>NGC 4152</b>		<b>H83-2</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,PL,R,PGMBM,R</b>
Jun 09 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 4158</b>		<b>H405-2</b>	<b>Galaxy SA(r)b:</b>	<b>F,PS,LE,BM,PB*SF</b>
Mar 08 2010 12"	11mmT6	CF,CS,R,UB,NND,R=F		
<b>NGC 4162</b>		<b>H353-2</b>	<b>Galaxy (R)SA(rs)bc</b>	<b>B,L,IE,BM</b>
Mar 08 2010 12"	11mmT6	CF,PS,OB,NND,R=F		
<b>NGC 4169</b>		<b>H358-3</b>	<b>Galaxy S0</b>	<b>F,S,1ST OF 4</b>
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4173</b>		<b>H372-2</b>	<b>Non-Existent</b>	
Mar 16 2012 18"	8.8 ES	PB,CS,EON,BNUC,R=G, A.L. FLAT GALLAXY		
<b>NGC 4185</b>		<b>H373-2</b>	<b>Galaxy Sbc</b>	<b>CF,L,R,GBM</b>
Apr 16 2009 16"	17mmT4	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 4189</b>		<b>H106-2</b>	<b>Galaxy SAB(rs)cd?</b>	<b>F,L,LE,VGLBM,R</b>
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4192</b>	<b>M98</b>		<b>Galaxy SAB(s)ab</b>	<b>B,VL,VME152,VSVMBM</b>
Jun 03 2019 12"	8mm Et	PF,S,OVAL,FNUC,R=G		
Mar 16 2012 18"	17mmAT	2012 M.M.		



## Coma Berenices - Berenice's Hair

<b>NGC 4192</b>	<b>M98</b>	<b>Galaxy SAB(s)ab</b>	<b>B,VL,VME152,VSVMBM</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	
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	
<b>NGC 4203</b>		<b>H175-1 Galaxy SAB0-</b>	<b>VB,S,R,PSMBM</b>
Apr 06 2010 12"	11mmT6	PB,PS, R,FNUC,R=G	
May 17 2005 31"	11mmT6	MB,ML,R,FNUC,MHS,R=G	
<b>NGC 4212</b>		<b>H108-2 Galaxy SAc:</b>	<b>B,L,E107,G,SBM,R</b>
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,LSB,R=F	
<b>NGC 4222</b>		<b>H109-2 Galaxy Sd: sp</b>	<b>VF,PS,R</b>
Mar 16 2012 18"	8.8 ES	PF,CS,EON,UB,NND,R=F, A.L. FLAT GALAXY	
<b>NGC 4237</b>		<b>H11-2 Galaxy SAB(rs)bc</b>	<b>PB,PL,LE,VGBM,R</b>
Apr 16 2009 16"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F	
<b>NGC 4245</b>		<b>H74-1 Galaxy SB(r)0/a:</b>	<b>CB,PL,VLE,SMBM,R</b>
May 17 2005 31"	11mmT6	MF,VS,R,NND,R=F	
<b>NGC 4251</b>		<b>H89-1 Galaxy SB0? sp</b>	<b>VB,S,E,VSVMBMN,*F90S</b>
May 17 2005 31"	11mmT6	MB,ML,EL,EON,FNUC,MSB,R=G	
<b>NGC 4254</b>	<b>M99</b>	<b>Galaxy SA(s)c</b>	<b>B,L,R,GBM,R,3BRSPIRA</b>
Jun 03 2019 12"	8mm Et	PF,S,R,UB,NND,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"	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 4262</b>		<b>H110-2 Galaxy SB(s)0-?</b>	<b>B,S,R,R</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 4274</b>		<b>H75-1 Galaxy (R)SB(r)ab</b>	<b>VB,VL,E90,MBMN</b>
May 17 2005 31"	11mmT6	PF,PS,OVAL,NND,R=F	
<b>NGC 4278</b>		<b>H90-1 Galaxy E1-2</b>	<b>VB,PL,R,MBM,R,1STOF3</b>
Apr 16 2009 16"	17mmT4	PB,PS,R,FNUC,HSB,R=G	

## Coma Berenices - Berenice's Hair

<b>NGC 4278</b>		<b>H90-1</b>	<b>Galaxy E1-2</b>	<b>VB,PL,R,MBM,R,1STOF3</b>
May 17 2005 31"	11mmT6	PB,PL,R,BNUC,R=G		
<b>NGC 4293</b>		<b>H5-5</b>	<b>Galaxy (R)SB(s)0/a</b>	<b>F,VL,E,LBM,R</b>
Apr 26 2006 8"	11mmT6	PB,L,EON,UB,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4298</b>		<b>H111-2</b>	<b>Galaxy SA(rs)c</b>	<b>F,L,E,VGBM,P OF 2</b>
May 14 2017 12"	11mmT6	PF,PS,OVAL,UB,NND,R=G. PAIRED W/NGC4302		
Apr 16 2009 16"	17mmT4	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 4302</b>		<b>H112-2</b>	<b>Galaxy Sc</b>	<b>L,VME177,F OF 2</b>
May 14 2017 12"	11mmT6	PF,PS,EON,UB,NND,R=F. PAIRED W/NGC4398		
Apr 16 2009 16"	17mmT4	PF,PS,EON,UB,NND,R=F		
<b>NGC 4310</b>		<b>H378-2</b>	<b>Galaxy SB0</b>	<b>F,CL,LE,N OF 2</b>
Apr 16 2009 16"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 4312</b>		<b>H628-2</b>	<b>Galaxy SA(rs)ab: sp</b>	<b>PB,CL,E,GBM</b>
Apr 16 2009 16"	17mmT4	PB,PS,EON,FNUC,USB,R=G		
<b>NGC 4314</b>		<b>H76-1</b>	<b>Galaxy SB(rs)a</b>	<b>CB,L,E150,SBM,*NP</b>
May 17 2005 31"	11mmT6	PB,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 4321</b>	<b>M100</b>		<b>Galaxy SAB(s)bc</b>	<b>PF,VL,R,VG,PSBMRN</b>
May 31 2019 12"	11mmT6	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		
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 4336</b>		<b>H406-2</b>	<b>Galaxy SB0/a</b>	<b>VF,PL,IR,(BIN)</b>
Apr 16 2009 16"	17mmT4	VF,PS,R,UB,NND,R=F		
<b>NGC 4340</b>		<b>H85-2</b>	<b>Galaxy SB(r)0+</b>	<b>PB,S,R,PSBM</b>
May 17 2005 31"	11mmT6	MB,PS,OVAL,NND,R=F		
<b>NGC 4350</b>		<b>H86-2</b>	<b>Galaxy SA0 sp</b>	<b>CB,VS,ME,VSBM</b>
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=P		
May 17 2005 31"	11mmT6	MB,PS,EL,OVAL,FNUC,MSB,R=G		
<b>NGC 4359</b>		<b>H648-3</b>	<b>Galaxy SB(rs)c? sp</b>	<b>CF,PME90,VLBM</b>
Apr 16 2009 16"	17mmT4	VF,VS,EL,OVAL,NND,AV,R=F		

## Coma Berenices - Berenice's Hair

<b>NGC 4379</b>		<b>H87-2</b>	<b>Galaxy S0- pec:</b>	<b>PS,R,PSBMN</b>
Apr 16 2009 16"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>NGC 4382</b>	<b>M85</b>		<b>Galaxy SA(s)0+ pec</b>	<b>VB,PL,R,BM,*NP</b>
Jun 03 2019 12"	8mm Et	F,S,R,FNUC,R=G		
Apr 20 2018 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 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		
<b>NGC 4393</b>		<b>H361-3</b>	<b>Galaxy SABd</b>	<b>VF,VL,IF,B*P</b>
Jun 19 2020 12"	8mm Et	PF,S,R,UB,NND,R=F		
<b>NGC 4394</b>		<b>H55-2</b>	<b>Galaxy (R)SB(r)b</b>	<b>PB,LE,BM</b>
Jun 03 2019 12"	8mm Et	PF,PS,PEXT,UB,NND,R=F		
Apr 20 2018 12"	11mmT6			
Apr 26 2006 8"	11mmT6	PF,PS,R,NND,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 4414</b>		<b>H77-1</b>	<b>Galaxy SA(rs)c?</b>	<b>VB,L,E,G,VSBM*</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,MEXT,FNUC,R=G		
May 17 2005 31"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G		
<b>NGC 4419</b>		<b>H113-2</b>	<b>Galaxy SB(s)a sp</b>	<b>B,PME135,SBM</b>
May 17 2005 31"	11mmT6	MB,ML,EL,EON,FNUC,MSB,R=G		
<b>NGC 4421</b>		<b>H89-2</b>	<b>Galaxy SB(s)0/a</b>	<b>PB,PL,PGBM,B*NP</b>
May 17 2005 31"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 4448</b>		<b>H91-1</b>	<b>Galaxy SB(r)ab</b>	<b>B,L,E90,SBM</b>
May 17 2005 31"	19mmW	VF,PS,EL,NND,R=G		
<b>NGC 4450</b>		<b>H56-2</b>	<b>Galaxy SA(s)ab</b>	<b>B,L,R,GVMBM*,R,B*SP</b>
May 17 2005 31"	11mmT6	MF,MS,OVAL,NND,R=F		
<b>NGC 4455</b>		<b>H355-2</b>	<b>Galaxy SB(s)d? sp</b>	<b>F,L,E,GBM,2B*NF</b>
Jun 19 2020 12"	8mm Et	PF,PS,OVAL,UB,NND,R=P		
<b>NGC 4459</b>		<b>H161-1</b>	<b>Galaxy SA(r)0+</b>	<b>PB,PL,IR,BM,R,*8SF2'</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Apr 26 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F		

## Coma Berenices - Berenice's Hair

<b>NGC 4459</b>		<b>H161-1</b>	<b>Galaxy SA(r)0+</b>	<b>PB,PL,IR,BM,R,*8SF2'</b>
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4468</b>		<b>H630-2</b>	<b>Galaxy SA0-?</b>	<b>F,CL</b>
Jun 03 2019 12"	8mm Et	VF,VS,R,UB,NND,R=F		
<b>NGC 4473</b>		<b>H114-2</b>	<b>Galaxy E5</b>	<b>PB</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,MEXT,UB,NND,R=F		
May 14 2017 12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=G		
Apr 26 2006 8"	11mmT6	PB,CS,OVAL,FNUC,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4474</b>		<b>H117-2</b>	<b>Galaxy S0 pec:</b>	<b>PF,R,R</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Apr 26 2006 8"	11mmT6	VF,VS,OVAL,NND,R=F		
<b>NGC 4477</b>		<b>H115-2</b>	<b>Galaxy SB(s)0:?</b>	<b>PB,CL</b>
Jun 03 2019 12"	8mm Et	PF,PS,R,UB,NND,R=F		
May 14 2017 12"	11mmT6	PF,PS,R,FNUC,R=G		
Apr 26 2006 8"	11mmT6	PB,CS,R,FNUC,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4479</b>		<b>H116-2</b>	<b>Galaxy SB(s)0^:?</b>	<b>PB,PL</b>
Jun 03 2019 12"	8mm Et	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 4494</b>		<b>H83-1</b>	<b>Galaxy E1-2</b>	<b>VB,PL,R,VSMBMN</b>
Apr 26 2006 8"	11mmT6	FB,FL,OVAL,FNUC,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
<b>NGC 4501</b>	<b>M88</b>		<b>Galaxy SA(rs)b</b>	<b>B,VL,VME</b>
Jun 03 2019 12"	8mm Et	F,S,R,FNUC,R=F		
Jun 03 2019 12"	8mm Et			
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 4548</b>	<b>M91</b>	<b>H120-2</b>	<b>Galaxy SB(rs)b</b>	<b>B,L,LE,LBM</b>
Jun 03 2019 12"	8mm Et	VF,PS,R,UB,NND,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		

## Coma Berenices - Berenice's Hair

<b>NGC 4548</b>	<b>M91</b>	<b>H120-2</b>	<b>Galaxy SB(rs)b</b>	<b>B,L,LE,LBM</b>
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 4559</b>		<b>H92-1</b>	<b>Galaxy SAB(rs)cd</b>	<b>VB,VL,ME150,GBM,3*F</b>
Apr 13 2005 8"	7.5mmW	MB,ML,EL,FNUC,R=G		
<b>NGC 4565</b>		<b>H24-5</b>	<b>Galaxy SA(s)b? sp</b>	<b>B,EL,EE135,VSBMN=*10</b>
May 31 2019 12"	11mmT6	PF,PS,EON,FNUC,R=G		
May 14 2010 31"	17mmT4	VB,VL,EON,BNUC,HSB,DARK DUST LANE BISECST. FILLS EYEPIECE,R=E!!		
May 18 2009 31"	31mmT5	PB,PL,EON,BNUC,HISB,R=E, NICE DUST LANE		
Mar 04 2006 31"	31mmT5	VB,VL,EON,BNUC,HISB,R=G		
Apr 13 2005 8"	7.5mmW	MB,ML,EL,EON,FNUC,R=G		
<b>NGC 4571</b>		<b>H602-3</b>	<b>Galaxy SA(r)d</b>	<b>VF,L,E,VGBM,*9NF NR</b>
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 4651</b>		<b>H12-2</b>	<b>Galaxy SA(rs)c</b>	<b>CB,L,E90,GBM,R</b>
Jun 03 2019 12"	8mm Et	PF,PS,R,UB,NND,R=F		
May 31 2019 12"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 4689</b>		<b>H128-2</b>	<b>Galaxy SA(rs)bc</b>	<b>PB,VL,E,VGLBM,R</b>
May 04 2005 8"	11mmT6	MF,ML,R,NND,R=F		
<b>NGC 4725</b>		<b>H611-3</b>	<b>Galaxy SAB(r)ab pec</b>	<b>VB,VL,E,VG,VSVMBMEBN</b>
May 31 2019 12"	11mmT6	PF,S,R,UB,NND,R=F		
May 17 2005 31"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G		
<b>NGC 4816</b>		<b>H383-2</b>	<b>Galaxy S0-</b>	<b>VF,PL</b>
May 18 2009 31"	17mmT4	PB,PS,OVAL,BNUC,MHISB,R=G		
<b>NGC 4824</b>			<b>Galaxy SA0</b>	<b>VF,VS</b>
May 18 2009 31"	17mmT4	PF,CS,R,UB,NND,R=F		
<b>NGC 4826</b>	<b>M64</b>		<b>Galaxy (R)SA(rs)ab</b>	<b>VB,VL,VME120,BMSBN</b>
Jun 19 2020 12"	30mmES	GOOD		
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		

## Coma Berenices - Berenice's Hair

<b>NGC 4826</b>	<b>M64</b>	<b>Galaxy (R)SA(rs)ab</b>	<b>VB,VL,VME120,BMSBN</b>
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 4874</b>		<b>H389-2 Galaxy E+0</b>	<b>F,4869\$72 P</b>
Apr 18 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F	
<b>NGC 4889</b>		<b>H391-2 Non-Existent</b>	<b>PB,PME,BM,*7N</b>
Apr 18 2012 18"	8.8 ES	PF,PS,R,MEXT,UB,NND,R=F	
Apr 13 2005 8"	7.5mmW	VF,VS,NND,AV,R=F	
<b>NGC 4931</b>		<b>Galaxy S0 sp</b>	<b>F,S</b>
Apr 13 2005 8"	11mmT6	VB,ML,OVAL,FNUC,MSB,R=G	
<b>NGC 5012</b>		<b>H85-1 Galaxy SAB(rs)c</b>	<b>PF,CL,E17,BIN,*9F</b>
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 5024</b>	<b>M53</b>	<b>Globular</b>	<b>GCL,B,VC,IR,VVMBM,</b>
Jun 19 2020 12"	13mmHV	R=E	
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 5053</b>		<b>H7-6 Globular</b>	<b>CL,VF,PL,IR,VGBM,*15</b>
Jun 19 2020 12"	13mmHV	R=F	
May 30 2016 12"	8mm Et	VF,S,R=F	
Mar 10 2007 1.9"	12x50	PB,PL,R=G,COMPRESSED	
May 12 2005 31"	19mmW	FAINT,OVAL,R=F	
<b>NGC 5056</b>		<b>H306-3 Galaxy Scd:</b>	<b>CF,CS,R,SP OF 2</b>
Apr 16 2009 16"	17mmT4	VF,PS,OVAL,UB,NND,AV,R=F	
<b>PGC 44105</b>		<b>Galaxy</b>	
May 18 2009 31"	17mmT4	PB,PS,OVAL,BNUC,MHISB,R=G	
<b>PGC 44109</b>		<b>Galaxy C</b>	
May 18 2009 31"	17mmT4	CF,CS,OVAL,NND,AV,R=F	
<b>PGC 44137</b>		<b>Galaxy</b>	
May 18 2009 31"	17mmT4	PF,PS,R,NND,R=F	

## Coma Berenices - Berenice's Hair

**PGC 44159** **Galaxy**  
May 18 2009 31" 17mmT4 VF,VS,R,UB,NND,R=F

**PGC 44391** **Galaxy SBb**  
May 30 2014 18" 8mm Ds PF,PS,EONL,UB,NND,R=F,PA=35

**PGC 45710** **Galaxy S?**  
May 12 2005 31" 19mmW MB,MS,EL,EON,NND,R=F

## Corona Australis - The Southern Crown

**IC 1297** **Planetary Neb**  
Aug 29 2010 12" 7mm TV PF,VS,R=F. NO CENTRAL STAR NOTED

**NGC 6496** **Globular** **NEB+CL,PL,ME,GVLBM**  
Sep 02 2019 12" 11mmT6 PF,PS,R=G. LAT. -44 DEGREES. 4 DEGREES ABOVE THE HORIZON

## Crater - The Cup

<b>NGC 3497</b> Apr 14 2016 12"	8mm Ds	<b>H824-3</b> VF,PS,OVAL,NND,AV,R=F, LOW ON HORIZON	<b>Galaxy SA(s)0<sup>+</sup>:</b>	<b>VF,VS,IR,GLBM</b>
<b>NGC 3511</b> Mar 01 2011 12" Jun 07 2010 12"	11mmT6 11mmT6	<b>H39-5</b> PF,PS,EON,UB,NND,R=F CF,PS,EON,UB,NND,R=F	<b>Galaxy SA(s)c</b>	<b>VF,VL,ME</b>
<b>NGC 3513</b> Mar 01 2011 12"	11mmT6	<b>H40-5</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(rs)c</b>	<b>VF,VL,ME</b>
<b>NGC 3636</b> Mar 01 2011 12"	7mm TV	<b>H550-2</b> F,CS,R,BNUC,R=G	<b>Galaxy E0</b>	<b>F,VS,R,LBM,*7F,P OF2</b>
<b>NGC 3637</b> Mar 01 2011 12"	7mm TV	<b>H551-2</b> F,CS,R,BNUC,R=G	<b>Galaxy (R)SB(r)0<sup>+</sup></b>	<b>F,VS,R,PSBM,*7P,FOF2</b>
<b>NGC 3672</b> Mar 01 2011 12"	7mm TV	<b>H131-1</b> PF,PS,OVAL,PEXT,UB,NND,R=F	<b>Galaxy SA(s)c</b>	<b>PB,L,E0,GBM</b>
<b>NGC 3693</b> Mar 01 2011 12"	5.5mmN	<b>H532-3</b> VF,VS,EON,UB,NND,AV,R=F	<b>Galaxy (R')SA(r)b:</b>	<b>CF,S,E,GBM</b>
<b>NGC 3732</b> Mar 01 2011 12"	5.5mmN	<b>H552-2</b> CF,CS,R,UB,NND,R=F	<b>Galaxy SB0-a</b>	<b>F,S,R,PSBM,*14SP</b>
<b>NGC 3887</b> Mar 01 2011 12"	11mmT6	<b>H120-1</b> DIFF,PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(r)bc</b>	<b>PB,L,IR,VGPMBM</b>
<b>NGC 3892</b> Mar 01 2011 12"	11mmT6	<b>H553-2</b> PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SB(rs)0<sup>+</sup></b>	<b>PB,PL,R,GBM,R</b>
<b>NGC 3962</b> Apr 26 2006 8"	19mmW	<b>H67-1</b> PF,PS,OVAL,NND,R=F	<b>Galaxy E1</b>	<b>CB,PL,IR,GMBM,TRI2*</b>



## Corvus - The Crow

<b>IC 761</b>		<b>Galaxy S0</b>	
Apr 07 2008 31"	17mmT4	B,VS,OVAL,UB,NND,R=F	
<b>IC 766</b>		<b>Galaxy SAB(r)0+? sp</b>	
Apr 07 2008 31"	17mmT4	B,PS,EON,UB,FNUC,R=G	
<b>MAC 1207-1408</b>		<b>Galaxy</b>	
Apr 07 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 4024</b>		<b>H295-2</b>	<b>Galaxy SAB0- F,VS,IF,BM</b>
Mar 18 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F	
<b>NGC 4027</b>		<b>H296-2</b>	<b>Galaxy SB(s)dm GCL,PF,PL,R,RR,ST16</b>
Apr 07 2008 31"	17mmT4	PB,PS,R,UB,FNUC,MSB,R=G	
Mar 29 2006 8"	11mmT6	PF,PS,R,NND,AV,R=F	
<b>NGC 4027A</b>		<b>Galaxy IB(s)m:</b>	
Apr 07 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>NGC 4033</b>		<b>H508-2</b>	<b>Galaxy E6 PB,S,LE,BM</b>
Mar 18 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
<b>NGC 4035</b>		<b>H279-3</b>	<b>Galaxy (R')SAB(rs)bc p EF,PL,*9M NR</b>
Apr 07 2008 31"	17mmT4	PF,PS,OVAL,NND,LSB,R=F	
<b>NGC 4038</b>		<b>H28.1-4</b>	<b>Galaxy SB(s)m pec PB,CL,R,VGBM</b>
Apr 20 2018 12"	11mmT6		
Apr 14 2016 12"	8mm Ds	PF,PS,UB,NND, NOT MUCH TO SEE IN MOON AND LOW HORIZON	
Apr 19 2007 31"	17mmT4	PB,CL,OVAL,UB,NND,R=G	
Apr 13 2005 8"	7.5mmW	VF,VS,NND,AV,R=F	
<b>NGC 4039</b>		<b>H28.2-4</b>	<b>Galaxy SA(s)m pec PF,PL</b>
Apr 20 2018 12"	11mmT6		
Apr 14 2016 12"	8mm Ds	PF,PS,UB,NND, NOT MUCH TO SEE IN MOON AND LOW HORIZON	
Apr 19 2007 31"	17mmT4	PB,CL,OVAL,UB,NND,R=G	
Apr 13 2005 8"	7.5mmW	VF,VS,NND,AV,R=F	
<b>NGC 4094</b>		<b>Galaxy SAB(rs)cd:</b>	<b>EF,L,PME,VGBM,2*11NR</b>
Mar 18 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 4114</b>		<b>H533-3</b>	<b>Galaxy (R')SAB(rs)a: CF,S,IR,GBM</b>
Apr 07 2008 31"	17mmT4	F,PS,OVAL,UB,NND,R=F	
Mar 18 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	
<b>NGC 4177</b>		<b>H534-3</b>	<b>Galaxy SA(rs)c pec: VF,PL,R,VGBM</b>
Apr 07 2008 31"	17mmT4	DIFF,F,S,OVAL,NND,LSB,R=F	

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<b>NGC 4188</b>			<b>Galaxy Sb</b>	<b>EF,PS</b>
Apr 07 2008 31"	17mmT4	F,S,R,NND,LSB,R=F		
<b>NGC 4225</b>			<b>Galaxy S0/a</b>	<b>F,ES,R,*60"S</b>
Apr 07 2008 31"	17mmT4	F,PS,R,UB,NND,R=G		
<b>NGC 4265</b>		<b>H535-3</b>	<b>Galaxy Sb</b>	<b>VF,PS,R</b>
Apr 07 2008 31"	17mmT4	F,PS,EL,OVAL,NND,LSB,R=F		
<b>NGC 4361</b>		<b>H65-1</b>	<b>Planetary Neb 3a+2</b>	<b>VB,L,R,VSMBMN,R</b>
May 04 2005 8"	11mmT6	VF,VS,R,AV,R=F		
<b>NGC 4756</b>		<b>H281-3</b>	<b>Galaxy SAB(s)0^?</b>	<b>VF,PS,RESOLVABLE</b>
Sep 15 2004 8"	7.5mmW	EF,PATCH,NND,AV,R=F, MAG=13.0		
<b>PGC 38354</b>			<b>Galaxy E?</b>	
Apr 07 2008 31"	17mmT4	B,VS,OVAL,UB,NND,R=F		

## Cygnus - The Swan

<b>CR 419</b>		<b>Open Cluster IV2p</b>
Jul 08 2019 12"	11mmT6	B,PS,R=G
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, SOME NEBULASITY
<b>CR 421</b>		<b>Open Cluster III1pn</b>
Jul 08 2019 12"	11mmT6	F,S,R=G. CAN SEE ABOUT A DOZEN MEMBERS.
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, FEWER STARS
<b>CR 428</b>		<b>Open Cluster IV1pn</b>
Jul 08 2019 12"	11mmT6	F,S,R=G. SURROUNDED BY NEBULA.
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, FEWER STARS
<b>CR 470</b>		<b>Galaxy</b>
Jun 20 2007 1.9"	12x50	F,S,R=F, HINT-NEBULOSITY, INV. W/IC 5146
Jun 26 2004 8"	25mmPL	INVOLVED W/ IC 5146
<b>HENIZ 2-438</b>		<b>Planetary Neb 4</b>
Aug 18 2010 12"	26mm	PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER
<b>IC 1301</b>		<b>Galaxy Scd:</b>
Aug 13 2010 31"	17mmT4	CF,PS,OVAL,UB,NND,R=F
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F
<b>IC 1302</b>		<b>Galaxy SAB(s)c?</b>
Aug 13 2010 31"	17mmT4	PF,CS,OVAL,MEXT,UB,NND,R=F
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F
<b>IC 1303</b>		<b>Galaxy SAc:</b>
Aug 13 2010 31"	17mmT4	PF,CS,OVAL,PEXT,UB,NND,R=F
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F
<b>IC 1311</b>		<b>Open Cluster 17.0 I 1 r n</b>
Jun 24 2020 12"	13mmHV	F,S,R=F
Aug 02 2005 8"	19mmW	NICE CLUSTER, NICER NEBULA
<b>IC 1318</b>		<b>Nebula E</b>
Jul 13 2020 12"	30mmES	B,PL,R=E. LP2
Aug 18 2010 12"	26mm	F,PL,R=G,IRREGULAR SHAPE,LARGE,OIII FILTER
<b>IC 1318B</b>		<b>Non-Existent</b>
Jul 13 2020 12"	30mmES	B,L,R=E. LP2
<b>IC 1369</b>		<b>Open Cluster 12.1 II 2 m</b>
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON
<b>IC 1392</b>		<b>Galaxy S0-:</b>
Jul 08 2019 12"	8mm Et	VF,VS,OVAL,UB,NND,AV,R=P

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<b>IC 1392</b>		<b>Galaxy S0-:</b>	
Jul 23 2006 8"	7.5mmW	VF,ES,OVAL,NND,AV,R=F	
<b>IC 4867</b>		<b>Galaxy S0</b>	
Aug 13 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=F	
Jul 27 2009 16"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
<b>IC 4996</b>		<b>Open Cluster 8.0 II 3 p n</b>	<b>APPROX 15 STARS</b>
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>IC 5067</b>		<b>Nebula EN</b>	
Jun 24 2020 12"	13mmHV	B,L,R=G. LP2	
Jul 24 2006 8"	25mmPL	PF,CL,R=F	
<b>IC 5068</b>		<b>Nebula E</b>	
Aug 18 2010 12"	26mm	PF,PL,R=P,ROUGHLY-RECTANGULAR SHAPE,DIM,OIII FILTER	
<b>IC 5070</b>		<b>Non-Existent</b>	
Jul 19 2017 12"	27m PN	F,PL,R=F.	
Jul 15 2015 12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jun 20 2007 1.9"	12x50	PF,VL,R=F, HINT OF NEBULOSITY	
Aug 02 2005 8"	19mmW	L,F,R=F	
<b>IC 5076</b>		<b>Nebula E</b>	
Nov 13 2007 8"	11mmT6	PF,PS,HINT OF NEBULOSITY,R=F	
<b>IC 5117</b>		<b>Planetary Neb 2</b>	
Jul 08 2019 12"	11mmT6	VF,VS,R=P. LP2	
Jul 23 2006 8"	11mmT6	F,VS,R,AV,R=F	
<b>IC 5146</b>		<b>Nebula E</b>	
Jul 13 2020 12"	13mmHV	F,S,R=G. LP2 BEST. OIII GOOD	
Jun 24 2020 12"	20mmOF	OUTSTANDING,R=E	
Jun 20 2007 1.9"	12x50	F,S,R=F, HINT OF NEBULOSITY	
Jun 26 2004 8"	7.5mmW	INVOLVED WITH CR 470	
<b>NGC 6764</b>		<b>Galaxy SB(s)bc</b>	<b>PF,PL,ME,SEVVF*INV</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6783</b>		<b>Galaxy C</b>	<b>EF,DIFFIC</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6798</b>		<b>Galaxy S0</b>	<b>F,VS,R,*VNR</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6801</b>		<b>Galaxy SAcd</b>	<b>EF,PS,R,F*S NR</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	

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<b>NGC 6811</b>		<b>Open Cluster 11.0 III 1 r</b>	<b>CL,L,PRI,LC,ST11..14</b>
Jul 08 2019 12"	11mmT6	B,L,R=G. LARGE, LOOSE GROUP.	
Oct 30 2007 1.9"	12x50	F,PS,R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 6819</b>		<b>Open Cluster 11.0 I 1 r</b>	<b>CL,VL,VRI,*11...15</b>
Jul 08 2019 12"	11mmT6	F,S,R=G. TIGHT GROUP	
Oct 08 2006 1.9"	12x50	N.S.R=F, TIGHTER GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 6824</b>	<b>H878-2</b>	<b>Galaxy SA(s)b:</b>	<b>PB,IF,BM</b>
Nov 13 2007 8"	11mmT6	CF,CS,R,UB,NND,R=F	
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6826</b>	<b>H73-4</b>	<b>Planetary Neb 3a+2</b>	<b>PLN,B,PL,R,*11M</b>
May 31 2019 12"	11mmT6		
Jul 19 2017 12"	11mmT6	F,PS,R=G. SQM=20.01. 71 DEGREES OUT.	
Aug 13 2010 31"	17mmT4	B,S,R=F, CENTRAL STAR OBSERVED AND NOTED	
Nov 13 2007 8"	11mmT6	PB,PS,R,R=G, NO CENTRAL STAR	
Oct 13 2006 8"	19mmW	VF,PS,R=F	
Sep 04 2004 8"	11mmT6	FAINT	
<b>NGC 6833</b>		<b>Planetary Neb 2</b>	<b>PLN,STELLAR</b>
Aug 13 2010 31"	17mmT4	CF,VVS,R=F. STELLAR IN APPEARANCE	
<b>NGC 6834</b>	<b>H16-8</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,P,LC,*11...12</b>
Jul 08 2019 12"	11mmT6	F,S,R=F	
Jul 23 2006 8"	19mmW	PB,PS,R=F, LOOSE GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 6846</b>		<b>Open Cluster 12.8 II 2</b>	<b>EF,VS,3*INV</b>
Aug 13 2010 31"	17mmT4	F,CS,R=F	
Jul 27 2009 16"	11mmT6	PF,VS,R=F	
<b>NGC 6857</b>	<b>H144-3</b>	<b>Nebula HII</b>	<b>F,AM MILKY WAY ST</b>
Aug 02 2005 8"	19mmW	MB,VL,HISB,R=G	
<b>NGC 6866</b>	<b>H59-7</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,L,VRI,CC</b>
Jul 08 2019 12"	11mmT6	B,L,R=G. NICE GROUP.	
Jul 23 2006 8"	19mmW	PB,PS,R=F, EXTENDED GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 6871</b>		<b>Open Cluster 6.8 II 2 p n</b>	<b>CL,ST L\$,D*INV</b>
Oct 30 2007 1.9"	12x50	B,S,R=F	
Oct 13 2006 8"	19mmW	B,L,R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	

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<b>NGC 6874</b>		<b>H86-8</b>	<b>Non-Existent</b>	<b>CL,P,LC</b>
Jul 27 2009 16"	11mmT6	PB,PS,, LOOSE GROUP, R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6881</b>			<b>Planetary Neb 2a+3</b>	<b>PLN,STELLAR</b>
Aug 13 2010 31"	17mmT4	PF,VS,R=P. STELLAR IN APPEARANCE - NO CENTRAL STAR!		
Jul 27 2009 16"	7.5mmW	VF,VS,R=F, NO VISIBLE CENTRAL STAR		
<b>NGC 6883</b>			<b>Open Cluster IV 2 m n</b>	<b>CL,PRI,**INV</b>
Oct 30 2007 1.9"	12x50	PB,S,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6884</b>			<b>Planetary Neb 2b</b>	<b>PLN,STELLAR</b>
Jul 08 2019 12"	11mmT6	B,S,R=F. LP2		
Jul 23 2006 8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 6888</b>		<b>H72-4</b>	<b>Nebula E</b>	<b>F,VL,VME,**ATT</b>
Jul 08 2019 12"	17mmT4	B,L,R=G. LP2. CRESCENT NEBULA.		
Oct 12 2012 18"	17mmT4	FINE OBJECT IN JOHN'S 20" OBSESSION, OIII FILTER		
Oct 12 2012 36"	17mmT4	FINE NEBULA IN CYGNUS, OUTSTANDING OBJECT, OIII FILTER		
Jul 24 2006 8"	25mmPL	PF,PL,PATCHEY,R=F		
<b>NGC 6894</b>		<b>H13-4</b>	<b>Planetary Neb 4+2</b>	<b>RINGNEB,F,S,VVLE</b>
Aug 13 2010 31"	17mmT4	F,PS,R=F. OVAL PATCH - NO CENTRAL STAR NOTED		
Jul 27 2009 16"	11mmT6	PF,PS,ROUND, NO VISIBLE CENTRAL STAR,R=F		
<b>NGC 6910</b>		<b>H56-8</b>	<b>Open Cluster 9.6 I 3 m n</b>	<b>CL,PB,PS,P,PC,*20.12</b>
Oct 08 2006 1.9"	12x50	PF,PS,R=F		
Jul 23 2006 8"	19mmW	CB,PS,R=F,BRIGHTER,TIGHTER		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6913</b>	<b>M29</b>		<b>Open Cluster 9.0 II 3 m n</b>	<b>CL,P,LC,STL\$\$</b>
Jul 13 2020 12"	30mmES	B,L,R=G		
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		
<b>NGC 6914</b>			<b>Nebula R</b>	<b>VF,VL,IR,DIF,2*ATT P</b>
Jul 24 2006 8"	25mmPL	PF,PS,PATCHY,R=F		

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<b>NGC 6914A</b>		<b>Nebula R</b>	
Aug 18 2010 12"	11mmT6	CF,PS,R=F,FAINT HINT OF NEBULOSITY, OIII FILTER, STARS 5+	
<b>NGC 6914B</b>		<b>Nebula R</b>	
Aug 18 2010 12"	11mmT6	CF,PS,R=P,FAINT HINT OF NEBULOSITY,OIII FILTER STARS 2	
<b>NGC 6916</b>		<b>Galaxy SBbc</b>	<b>EEF,PS,F*NR P,VDIFFI</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6960</b>		<b>H15-5</b>	<b>Nebula E</b>
			<b>PB,CL,EIF,KAPPACYGIN</b>
Jul 13 2020 12"	30mmES	OUTSTANDING	
Jun 19 2020 12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Sep 26 2019 12"	27m PN	OUTSTANDING OBJECT. OIII FILTER	
Sep 26 2019 36"	8mm Et	OUTSTANDING OBJECT IN THE 36" WITH 31MM NAGLER & OIII FILTER	
Jun 28 2019 12"	35mm A	WESTERN VEIL. LP2 FILTER. EXCELLENT OBJECT.	
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017 12"	27m PN	F,L,R=E. LP2. NICE CONTRAST	
Jul 01 2016 12"	35mm A	GREAT,R=E!! LP2 FILTER	
Jul 25 2011 12"	32mmUV	B,VL,R=E!! LP-2 FILTER, EXTENDS N.E. TO S.W WITH N.E. LARGER	
Jun 20 2007 1.9"	12x50	PF,PL,R=F, HINT OF NEBULOSITY	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 6974</b>		<b>Nebula EN</b>	<b>NEB*,NEBY CE PF</b>
Sep 26 2019 12"	27m PN	OUTSTANDING OBJECT. OIII FILTER	
Aug 24 2019 12"	27m PN	OUTSTANDING OBJECT. LP2 BEST.	
Aug 07 2016 12"	27m PN	BRIGHT,LARGE,R=E. LP3.	
Aug 18 2010 12"	11mmT6	CF,PS,R=P,LONG-NARROW,OIII FILTER	
<b>NGC 6979</b>		<b>H206-2</b>	<b>Non-Existent</b>
Jun 19 2020 12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Aug 07 2016 12"	27m PN	BRIGHT,LARGE,F=E. LP3. SQM-19.81, 62 DEGREES F.	
Jun 20 2007 1.9"	12x50	PF,PL,R=F, HINT OF NEBULOSITY	
<b>NGC 6991</b>		<b>H76-8</b>	<b>Open Cluster 5.7 III 2 n</b>
			<b>CL,L,P,VLC</b>
Nov 13 2007 8"	11mmT6	PB,PL,R=G,STARS=30+, 3 ROWS?	
<b>NGC 6992</b>		<b>H14-5</b>	<b>Nebula E</b>
			<b>EF,EL,EE,EIF,BIFID</b>
Jul 13 2020 12"	30mmES	OUTSTANDING	
Jun 19 2020 12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Jul 01 2016 12"	35mm A	GREAT,R=E!! LP2 FILTER	
Jul 25 2011 12"	32mmUV	B,L,R=E! LP-2 FILTER, WISPY FILEMENTS	
Jun 20 2007 1.9"	12x50	PF,L,R=F, HINT OF NEBULOSITY	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 6995</b>		<b>Non-Existent</b>	<b>F,EL,NEB\$ST INGROUPS</b>
Jul 13 2020 12"	30mmES	OUTSTANDING	
Jun 19 2020 12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	

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<b>NGC 6995</b>		<b>Non-Existent</b>	<b>F,EL,NEB\$ST INGROUPS</b>
Sep 26 2019 12"	27m PN	OUTSTANDING OBJECT. OIII FILTER	
Aug 24 2019 12"	27m PN	OUTSTANDING OBJECT. LP2 BEST.	
Jun 28 2019 12"	35mm A	EASTERN VEIL. LP2 FILTER. EXCELLENT OBJECT.	
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017 12"	27m PN	F,L,R=E!! LP2 FILTER. SHOWPIECE OBJECT.	
Jun 20 2007 1.9"	12x50	PF,PL, R=F, HINT OF NEBULOSITY	
Aug 02 2005 8"	19mmW	VB,VL,PATCHY,R=G. NEAT	
<b>NGC 6996</b>		<b>Open Cluster 11.0 III 2 m n</b>	<b>CL,P,LC</b>
Aug 18 2010 12"	11mmT6	F,S,R=F,NICE GROUPING, STARS 20+	
<b>NGC 6997</b>		<b>H58-8 Open Cluster III 2 m n</b>	<b>CL,P,LC,ST L</b>
Nov 13 2007 8"	11mmT6	PF,PS,LOOSE GROUP, R=F	
Aug 23 2004 8"	11mmT6	DAMP - SEEING NOT TOO BAD.	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 7000</b>		<b>H37-5 Nebula E</b>	<b>F,EEL,DIF NEBULOSITY</b>
Jun 19 2020 12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Sep 26 2019 12"	27m PN	OUTSTANDING OBJECT. OIII FILTER	
Jun 28 2019 12"	35mm A	NORTH AMERICA NEBULA. LP2 FILTER. EXCELLENT OBJECT.	
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017 12"	35mm A	OUTSTANDING.	
Jul 01 2016 12"	35mm A	GREAT,R=E!! LP2 FILTER	
Aug 21 2015 12"	35mm A	LP2 FILTER	
Jul 15 2015 12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jul 25 2011 12"	32mmUV	B,VL,R=E!! LP-2 FILTER, OUTSTANDING	
Jun 20 2007 1.9"	12x50	F,EL,R=G, LITTLE BETTER	
Aug 02 2005 8"	19mmW	PRETTY LARGE, PRETTY BRIGHT, PRETTY NEAT	
<b>NGC 7008</b>		<b>H192-1 Planetary Neb 3</b>	<b>CB,L,E45,R,**ATT</b>
Jul 08 2019 12"	11mmT6	F,L,R=G. LP2. NO CENTRAL STAR NOTED.	
Aug 02 2005 8"	19mmW	FB,FL,R=G, BEHIND STAR	
<b>NGC 7013</b>		<b>H203-2 Galaxy SA(r)0/a</b>	<b>PB,CS,R,PSBM,PB*NP</b>
Jul 08 2019 12"	8mm Et	PF,S,OVAL,MEXT,UB,NND,R=F.	
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 7024</b>		<b>H57-8 Non-Existent</b>	<b>CL,P,LC,ST10...</b>
Jul 27 2009 16"	11mmT6	PF,PS,R=F, SMALL GROUP	
<b>NGC 7026</b>		<b>Planetary Neb 3a</b>	<b>PB,BIN,PLN</b>
Jul 07 2018 12"	8mm Et	B,PS,R=G	
Aug 24 2005 8"	11mmT6	MF,MS,PATCHY,AV,R=F	
<b>NGC 7027</b>		<b>Planetary Neb 3a</b>	<b>PLN,STELLAR=8.5M</b>
Jul 08 2019 12"	11mmT6	B,PS,R=G. OIII	



## Cygnus - The Swan

<b>NGC 7027</b>			<b>Planetary Neb 3a</b>	<b>PLN,STELLAR=8.5M</b>
Aug 24 2005	8"	7.5mmW	VB,VS,R,R=F	
<b>NGC 7031</b>			<b>H74-8</b>	<b>Open Cluster 11.3 III 2 m</b>
Jul 24 2006	8"	11mmT6	CF,CS,R=F	<b>CL OF TRIP ST,LC</b>
<b>NGC 7039</b>			<b>Open Cluster 11.3 IV 2 m</b>	<b>CL,VL,PRI,E,ST,10...</b>
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 7044</b>			<b>H24-6</b>	<b>Open Cluster 15.0 I 1 r</b>
Jul 23 2006	8"	19mmW	B,S,R=F	<b>CL,VF,PL,VRI,VC</b>
<b>NGC 7048</b>			<b>Planetary Neb 3b</b>	<b>PF,PL,DIF,IR,VLBM</b>
Aug 24 2005	8"	7.5mmW	VF,ML,PATCHY,AV,R=F	
<b>NGC 7062</b>			<b>H51-7</b>	<b>Open Cluster 10.1 II 2 m</b>
Jul 23 2006	8"	19mmW	PB,PS,R=F	<b>CL,PS,PRI,PC,ST13...</b>
<b>NGC 7063</b>			<b>Open Cluster 8.9 III 1 p</b>	<b>CL,P,ST10...</b>
Oct 08 2006	1.9"	12x50	F,S,R=F	
Jul 24 2006	8"	11mmT6	CF,S,R=F	
<b>NGC 7067</b>			<b>H50-7</b>	<b>Open Cluster 11.2 II 1 p</b>
Jul 24 2006	8"	11mmT6	CF,VS,R=F	<b>CL,P,(NEB)</b>
<b>NGC 7071</b>			<b>Non-Existent</b>	<b>CL,S,C,CE</b>
Aug 24 2005	8"	11mmT6	R=P, DISAPPOINTING	
<b>NGC 7082</b>			<b>H52-7</b>	<b>Open Cluster 9.9 IV 2 p</b>
Nov 13 2007	8"	11mmT6	PF,PS,R=F	<b>CL,L,CRI,LC,ST10..13</b>
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 7086</b>			<b>H32-6</b>	<b>Open Cluster 10.2 II 2 m</b>
Jul 23 2006	8"	19mmW	PB,PS,R=F	<b>CL,CL,VRI,PC,*11..16</b>
<b>NGC 7092</b>			<b>M39</b>	<b>Open Cluster 7.0 III 2 m</b>
Jul 13 2020	12"	13mmHV	B,L,R=G	<b>CL,VL,VP,VLC,*7...10</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	

## Cygnus - The Swan

<b>NGC 7116</b>		<b>Galaxy S?</b>	<b>VF,PL,ME</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.
<b>NGC 7127</b>		<b>Open Cluster IV 1 p</b>	<b>CL,S,P,LC</b>
Jul 23 2007	8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS
<b>NGC 7128</b>		<b>H40-7</b>	<b>Open Cluster 11.5 I 3 m</b>
Jul 23 2006	8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS
<b>PGC 63211</b>		<b>Galaxy S</b>	
Aug 13 2010	31"	17mmT4	CF,VS,R,UB,NND,R=F
<b>PGC 63311</b>		<b>Galaxy Sb</b>	
Jul 25 2011	12"	7mm TV	VF,VS,OVAL,UB,NNS,R=F,AV1
<b>PGC 63440</b>		<b>Galaxy S0-:</b>	
Jul 25 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV1
<b>PGC 63529</b>		<b>Galaxy SAB(s)0-</b>	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.
<b>PGC 63552</b>		<b>Galaxy S?</b>	
Jul 25 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=P
<b>PGC 63766</b>		<b>Galaxy SAB(s)bc</b>	
Jul 25 2011	12"	7mm TV	VF,CS,OVAL,NND,R=P
<b>PGC 67049</b>		<b>Galaxy SAB0^</b>	
Jul 25 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=F
Jul 19 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=P
<b>PGC 67246</b>		<b>Galaxy SB?</b>	
Jul 25 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV4
<b>PK 64+5.1</b>		<b>Planetary Neb 4</b>	
Aug 24 2005	8"	7.5mmW	VF,VS,R,AV,R=F

## Delphinus - The Dolphin

<b>IC 1320</b>			<b>Galaxy SB(s)b?</b>	
Sep 25 2006 31"	19mmW	PF,S,OVAL,NND,R=F		
<b>IC 1359</b>			<b>Galaxy S?</b>	
Sep 25 2006 31"	19mmW	FB,FS,EON,NND,R=G		
<b>IC 5080</b>			<b>Galaxy</b>	
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F		
<b>MAC 2033+0659</b>			<b>Galaxy</b>	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,R=F		
<b>MAC 2033+0951</b>			<b>Galaxy</b>	
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
<b>MAC 2102+1913</b>			<b>Galaxy</b>	
Sep 25 2006 31"	19mmW	PF,VS,OVAL,NND,AV,R=F		
<b>MAC 2107+1802</b>			<b>Galaxy</b>	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
<b>NGC 6891</b>			<b>Planetary Neb 2a+2b</b>	<b>PLN,STELLAR=9.5M</b>
Aug 29 2019 12"	11mmT6	B,VS,R=G. LP2		
Sep 25 2006 31"	19mmW	PB,L,R,R=G		
Aug 12 2005 8"	7.5mmW	MF,VS,OVAL,R=F		
<b>NGC 6905</b>		<b>H16-4</b>	<b>Planetary Neb 3+3</b>	<b>PLN,B,PS,R,4S*NR</b>
Aug 29 2019 12"	11mmT6	F,S,R=G. LP2		
Jul 25 2017 12"	11mmT6	F,PS,R=G.. USED LP2		
Aug 13 2007 31"	31mmT5	PF,CS,R,R=G, CENTRAL STAR NOT VISIBLE		
Aug 09 2005 8"	11mmT6	MB,ML,PATCHY,MSB,R=G		
<b>NGC 6917</b>			<b>Galaxy S</b>	<b>VF,S,ATT TO A S*</b>
Sep 25 2006 31"	19mmW	F,L,OVAL,ND,R=F		
<b>NGC 6927</b>			<b>Galaxy S0: sp</b>	<b>EF,LE</b>
Aug 31 2008 31"	17mmT4	VF,VS,OVAL,NND,R=F		
Sep 25 2006 31"	19mmW	PF,S,OVAL,NND,R=F		
<b>NGC 6927A</b>			<b>Galaxy E6:</b>	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P		
Sep 25 2006 31"	19mmW	VF,S,OVAL,NND,AV,R=F		
<b>NGC 6928</b>			<b>Galaxy SB(s)ab</b>	<b>PB,PL,ME</b>
Aug 29 2019 12"	11mmT6	PF,PS,OVAL,NND,R=F		
Aug 31 2008 31"	17mmT4	PF,PS,EON,FNUC,MSB,R=F		
Sep 25 2006 31"	19mmW	PB,PL,EON,FNUC,HISB.R=G		

## Delphinus - The Dolphin

<b>NGC 6930</b>			<b>Galaxy SB(s)ab? sp</b>	<b>F,ME</b>
Aug 31 2008 31"	17mmT4	DIFF,PF,PS,OVAL,NND,R=F		
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
<b>NGC 6934</b>		<b>H103-1</b>	<b>Globular</b>	<b>GCL,B,L,R,RRR,*16...</b>
Jun 19 2020 12"	13mmHV	B,PS,R=G		
Aug 29 2019 12"	11mmT6	B,S,R=G. NICE GLOB.		
Oct 25 2009 12"	11mmT6	PB,PS,R=G. RESOLVE OUTER STARTS ONLY		
Aug 31 2008 31"	17mmT4	PB,PS,R=G		
Oct 08 2006 1.9"	12x50	F,S,R=F, SMALL SMUDGE.		
Aug 20 2006 1.9"	12x50	B,L,R=G		
Jul 23 2006 8"	7.5mmW	PB,CS,R,R=G		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6944</b>			<b>Galaxy S0:-</b>	<b>PF,S,R</b>
Sep 25 2006 31"	19mmW	PB,,L,OVAL,NND,R=F		
<b>NGC 6944A</b>			<b>Galaxy SB(rs)d pec:</b>	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 6950</b>		<b>H23-8</b>	<b>Open Cluster cluster?</b>	<b>CL,P,VLC</b>
Aug 18 2010 12"	11mmT6	PF,PS,R=F,LOOSE,STARS 30+		
<b>NGC 6954</b>			<b>Galaxy SA0+?</b>	<b>F,S,VLE</b>
Sep 25 2006 31"	19mmW	FB,FL,OVAL,ND,R=G		
<b>NGC 6955</b>			<b>Galaxy SAB(r)bc</b>	<b>EF,PL,R</b>
Sep 25 2006 31"	19mmW	PF,L,R,NND,AV,R=F		
<b>NGC 6956</b>		<b>H219-3</b>	<b>Galaxy SBb</b>	<b>VF,S,STELL,**ATT</b>
Sep 25 2006 31"	19mmW	PB,L,OVAL,NND,R=G		
<b>NGC 6957</b>			<b>Galaxy Scd?</b>	<b>VF,S,R</b>
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
<b>NGC 6969</b>			<b>Galaxy Sa</b>	<b>F,PL,E</b>
Sep 25 2006 31"	19mmW	PB,L,EON,NND,R=G		
<b>NGC 6971</b>			<b>Galaxy Sb</b>	<b>VF,S,R</b>
Sep 25 2006 31"	19mmW	F,L,EL,OVAL,NND,R=F		
<b>NGC 6972</b>			<b>Galaxy S0/a</b>	<b>F,S,R</b>
Sep 25 2006 31"	19mmW	B,L,EL,OVAL,FNUC,R=G		
<b>NGC 6988</b>			<b>Galaxy</b>	<b>EF,PL,R</b>
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F		

## Delphinus - The Dolphin

<b>NGC 7003</b>			<b>Galaxy Sbc</b>	<b>VF,VS,LE,*15CLOSE F</b>
Sep 25 2006 31"	19mmW	F,L,OVAL,PATCHY,NND,R=F		
<b>NGC 7006</b>		<b>H52-1</b>	<b>Globular</b>	<b>B,PL,R,GBM</b>
Jun 19 2020 12"	13mmHV	PF,PS,R=F		
Aug 29 2019 12"	11mmT6	PF,S,R=G		
Oct 21 2006 31"	20mmUV	FB,L,STELLAR, RESOLVE OUTERMOST STARS.		
Jul 23 2006 8"	7.5mmW	VF,CS,R,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 7025</b>			<b>Galaxy Sa</b>	<b>VF,VS,R,STELL</b>
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Sep 25 2006 31"	19mmW	PB,L,OVAL,FNUC,PHISB,R=G		
<b>PGC 64976</b>			<b>Galaxy</b>	
Aug 31 2008 31"	17mmT4	EF,ES,R,NND,AV,R=P		
<b>PGC 64995</b>			<b>Galaxy E</b>	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>PGC 64999</b>			<b>Galaxy Sc</b>	
Aug 31 2008 31"	17mmT4	VF,VS,EON,NND,AV,R=F		
<b>PGC 65060</b>			<b>Galaxy Sb</b>	
Aug 31 2008 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F		
<b>PGC 65099</b>			<b>Galaxy S0</b>	
Aug 31 2008 31"	17mmT4	CF,S,OVAL,NND,R=F		
<b>PGC 65138</b>			<b>Galaxy E</b>	
Aug 31 2008 31"	17mmT4	PF,VS,OVAL,UB,NND,R=F		
<b>PGC 65281</b>			<b>Galaxy S?</b>	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
<b>PGC 65293</b>			<b>Galaxy SB(r)a</b>	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
<b>PGC 65482</b>			<b>Galaxy</b>	
Sep 25 2006 31"	19mmW	PF,S,R,NND,R=F		
<b>PGC 65971</b>			<b>Galaxy</b>	
Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,R=F		
<b>PGC 66125</b>			<b>Galaxy S R</b>	
Sep 25 2006 31"	19mmW	VF,PS,R,NND,AV,R=F		

## Delphinus - The Dolphin

<b>PGC 66139</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>PGC 66170</b>			<b>Galaxy E</b>
Sep 25 2006 31"	19mmW	PB,FL,R,FNUC,R=G	
<b>PGC 66176</b>			<b>Galaxy S?</b>
Sep 25 2006 31"	19mmW	PB,FL,EL,OVAL,FNUC,MHISB,R=G	
<b>PGC 66178</b>			<b>Galaxy Scd:</b>
Sep 25 2006 31"	19mmW	VF,S,EON,NND,AV,R=F	

## Draco - The Dragon

<b>IC 836</b>			<b>Galaxy S</b>	
Feb 23 2006 31"	17mmT4	PB,PL,EON,FNUC,HISB,R=G		
<b>IC 1231</b>			<b>Galaxy Scd:</b>	
Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F,PA=10		
<b>IC 4763</b>			<b>Galaxy S?</b>	
Sep 05 2010 12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=165		
<b>MAC 1236+7415</b>			<b>Galaxy</b>	
Feb 23 2006 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 1237+7417</b>			<b>Galaxy</b>	
Feb 23 2006 31"	17mmT4	VF,FS,R,NND,R=F		
<b>NGC 2908</b>		<b>H977-3</b>	<b>Galaxy S</b>	<b>EF,VS</b>
May 23 2012 18"	8.8 ES	CF,CS,R,UB,NND,AV1,R=F		
<b>NGC 2938</b>		<b>H963-3</b>	<b>Galaxy SB(rs)cd</b>	<b>EF,S,IF,D*F3'</b>
May 23 2012 18"	8.8 ES	VF,CS,OVAL,MEXT,UB,NNE,AV2,R=F		
<b>NGC 2957A</b>			<b>Galaxy E1:</b>	<b>EF,*13NR</b>
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,PEXT,NND,R=P		
<b>NGC 2957B</b>			<b>Galaxy E</b>	
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,PEXT,NND,R=P		
<b>NGC 2963</b>		<b>H315-3</b>	<b>Galaxy SBab</b>	<b>VF,VS,R,BM</b>
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
<b>NGC 2977</b>		<b>H282-1</b>	<b>Galaxy Sb:</b>	<b>CB,PL,IF,</b>
Jun 28 2019 12"	8mm Et	VF,VS,OVAL,UB,NND,AV1,R=P		
Jul 08 2018 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Aug 31 2010 12"	7mm TV	VF,VS,OVAL,MEXT,PATCH,NND,R=F. PA=110		
<b>NGC 3057</b>		<b>H978-3</b>	<b>Galaxy SB(s)dm</b>	<b>EF,PL,VLBM,2S* S</b>
Jul 08 2018 12"	8mm Et	VF,PS,OVAL,UB,NND,R=F		
Sep 09 2010 12"	5.5mmN	VF,CS,OVAL,R,NND,AV,R=P		
<b>NGC 3061</b>		<b>H903-2</b>	<b>Galaxy (R')SB(rs)c</b>	<b>VF,PL,RESOLVABLE</b>
Jul 08 2018 12"	8mm Et	VF,PS,OVAL,UB,NND,AV,R=F		
Sep 09 2010 12"	5.5mmN	VF,CS,R,NND,AV,R=F		
<b>NGC 3144</b>			<b>Non-Existent</b>	<b>VF,S,R,*13ATT F</b>
Jul 13 2013 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3147</b>		<b>H79-1</b>	<b>Galaxy SA(rs)bc</b>	<b>VB,L,R,VGVSVMBM</b>

## Draco - The Dragon

<b>NGC 3147</b>		<b>H79-1</b>	<b>Galaxy SA(rs)bc</b>	<b>VB,L,R,VGVSVMBM</b>
Jul 25 2017	12" 11mmT6	PF,PS,OVAL,MEXT,NND,R=F		
Sep 02 2016	12" 8mm Et	PF,PS,R,FNUC,R=F, 2 STARS TO SOUTHEAST.		
Jul 23 2006	8" 11mmT6	PF,PS,OVAL,NND,R=F		
Jun 19 2004	8" 25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 3183</b>		<b>H283-1</b>	<b>Non-Existent</b>	<b>F,PL,E,LBM</b>
Jun 28 2019	12" 8mm Et	VF,VS,OVAL,UB,NND,R=F		
Aug 06 2010	12" 7mm TV	CF,CS,OVAL,UB,NND,AV,R=F		
<b>NGC 3194</b>		<b>H965-3</b>	<b>Galaxy S?</b>	<b>VF,VS</b>
Aug 31 2010	12" 7mm TV	CF,VS,OVAL,MEXT,UB,NND,AV,R=P. PA=170		
<b>NGC 3197</b>		<b>H966-3</b>	<b>Galaxy Sbc</b>	<b>VF,VS</b>
Jul 13 2013	18" 7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3212</b>		<b>H980-3</b>	<b>Galaxy SB?</b>	<b>VF,S,2ND OF 3</b>
Jul 13 2013	18" 7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F,PAIRED W/NGC-3215		
<b>NGC 3215</b>		<b>H981-3</b>	<b>Galaxy S?</b>	<b>VF,S,3RD OF 3</b>
Jul 13 2013	18" 7mm TV	VF,PS,PEXT,UB,NND,R=F,PAIRED W/NGC-3212		
<b>NGC 3218</b>		<b>H283-1</b>	<b>Galaxy SB(s)bc:</b>	<b>CB,CL,ER,</b>
Aug 25 2011	12" 5mm TV	F,VS,OVAL,MEXT,UB,NND,AV1,R=P		
<b>NGC 3252</b>		<b>H316-3</b>	<b>Galaxy SBd? sp</b>	<b>EF,PS,ME,R</b>
Jul 13 2013	18" 7mm TV	PF,PS,EON,UB,NND,R=F,PA=35		
<b>NGC 3329</b>		<b>H284-1</b>	<b>Non-Existent</b>	<b>PB,S,LE,PSMBM</b>
Jun 28 2019	12" 8mm Et	PF,PS,OVAL,FNUC,R=G		
Aug 29 2010	12" 7mm TV	CF,CS,OVAL,MEXGT,UB,NND,R=F. PA=100.		
Aug 18 2010	12" 7mm TV	CF,CS,OVAL,MEXT,UB,NND,A=F. PA=100, 2 STARS NEAR W.N.W.		
Aug 06 2010	12" 7mm TV	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3343</b>		<b>H317-3</b>	<b>Galaxy E</b>	<b>PF,S,R,GBM</b>
Jul 13 2013	18" 7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3397</b>		<b>H284-1</b>	<b>Galaxy (R)SA(r)b:</b>	<b>CB,VS,IF</b>
Aug 25 2011	12" 5mm TV	F,VS,OVAL,PEXT,UB,FNUC,R=F		
<b>NGC 3403</b>		<b>H335-2</b>	<b>Galaxy SAbc:</b>	<b>PF,L,IE,VGBM</b>
Feb 23 2006	31" 17mmT4	MB,FS,OVAL,NND,LSB,R=F		
<b>NGC 3465</b>		<b>H967-3</b>	<b>Non-Existent</b>	<b>EF,PL,R,VGLBM,**NF</b>
Jul 13 2013	18" 7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
Feb 23 2006	31" 17mmT4	MF,FS,R,FNUC,MSB,R=F		



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<b>NGC 3523</b>		<b>H904-2</b>	<b>Galaxy Sbc</b>	<b>F,PL,LBM,</b>
Jul 13 2013 18"	7mm TV	VF,PS,R,UB,NND,AV,R=F		
Feb 23 2006 31"	17mmT4	DIFF,B,ML,R,NND,R=F		
<b>NGC 3562</b>		<b>H337-2</b>	<b>Galaxy E</b>	<b>PF,PS,LE,GBM,*70"NP</b>
Aug 31 2010 12"	7mm TV	CF,PS,OVAL,PATCH,NND,AV,R=F. PA=135		
<b>NGC 3682</b>		<b>H262-1</b>	<b>Galaxy SA(s)0/a:?</b>	<b>CB,S,IR,SPMBMN</b>
Aug 31 2010 12"	7mm TV	PF,CS,OVAL,MEXT,UB,NND,R=F. PA=75		
<b>NGC 3735</b>		<b>H287-1</b>	<b>Galaxy SAc: sp</b>	<b>PB,L,ME130,MBM</b>
Jun 28 2019 12"	8mm Et	PF,S,EONL,UB,NND,R=G		
Aug 31 2010 12"	7mm TV	CF,PS,EON,UB,NND,R=F. PA=90		
Aug 29 2010 12"	7mm TV	CF,PS,EON,UB,NND,R=F. PA=90		
<b>NGC 3736</b>			<b>Galaxy Sb</b>	<b>VF,VS,R</b>
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 3752</b>		<b>H905-2</b>	<b>Galaxy Sab</b>	<b>PB,PL</b>
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,MEXT,NND,R=F		
<b>NGC 3879</b>		<b>H881-2</b>	<b>Galaxy Sdm:</b>	<b>F,PL,ME105</b>
Feb 23 2006 31"	17mmT4	FB,FL,EON,FNUC,MSB,R=G		
<b>NGC 3890</b>		<b>H940-3</b>	<b>Galaxy S?</b>	<b>VF,S,R,BM</b>
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,UB,NND,AV1,R=F		
Feb 23 2006 31"	17mmT4	FB,FL,R,BNUC,FHISB,R=G		
<b>NGC 3961</b>		<b>H905-3</b>	<b>Galaxy (R)SB(r)a:</b>	<b>EF,VS</b>
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,NND,AV2,R=F		
Feb 23 2006 31"	17mmT4	FB,FL,OVALM,FNUC,MSB,R=G		
<b>NGC 4034</b>		<b>H903-3</b>	<b>Galaxy Scd:</b>	<b>EF,S,IF,GVLBM</b>
Jul 13 2013 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 4108</b>			<b>Galaxy (R')SAc:</b>	<b>B,S,R,GBM</b>
Jun 28 2019 12"	8mm Et	VF,PS,OVAL,NND,AV1,R=P		
Aug 31 2010 12"	7mm TV	VF,CS,OVAL,NND,AV,R=F. PA=90??		
<b>NGC 4120</b>		<b>H904-3</b>	<b>Galaxy SA(rs)cd:</b>	<b>EF,VS,E</b>
Jul 13 2013 18"	7mm TV	VF,PS,EON,UB,NND,R=F		
<b>NGC 4125</b>			<b>Galaxy E6 pec</b>	<b>PB,PL,CE,MBM</b>
Sep 02 2016 12"	8mm Et	PF,PS,OVAL,FNUC,R=G.		
Sep 07 2005 8"	11mmT6	MB,ML,OVAL,FNUC,MSB,R=G		
Sep 01 2005 8"	7.5mmW	MB,MS,OVAL,NND,MSB,R=F		

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<b>NGC 4128</b>		<b>H263-1</b>	<b>Galaxy SA0: sp</b>	<b>CB,LE,BM</b>
Jun 28 2019	12"	8mm Et	PF,PS,MEXT,UB,NND,R=G	
Aug 31 2010	12"	7mm TV	PF,PS,EON,FNUC,MSB,R=G. PA=10	
Aug 29 2010	12"	7mm TV	PF,PS,OVAL,PEXT,FNUC,R=F. PA=10	
<b>NGC 4133</b>		<b>H278-1</b>	<b>Galaxy SABb:</b>	<b>PB,CL,R,GMBM</b>
Aug 31 2010	12"	7mm TV	CF,PS,OVAL,EXT,UB,NND,R=F. PA=70	
Aug 12 2010	12"	7mm TV	VF,VS,OVAL,MEXT,NND,AV,R=P	
<b>NGC 4159</b>		<b>H941-3</b>	<b>Galaxy S?</b>	<b>EF,PS,R,TRI2*</b>
Apr 17 2015	18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F	
<b>NGC 4205</b>			<b>Galaxy S?</b>	<b>PB,PS,R,*12F,LN</b>
Aug 15 2015	12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 4210</b>		<b>H850-3</b>	<b>Galaxy SB(r)b</b>	<b>PF,PS,R,VGBM</b>
Aug 31 2010	12"	7mm TV	VF,PS,R,NND,R=F	
<b>NGC 4221</b>			<b>Galaxy (R)SB(r)0+</b>	<b>PB,S,R,PSBM</b>
Aug 31 2010	12"	7mm TV	PF,PS,OVAL,EXT,FNUC,R=F.	
<b>NGC 4236</b>		<b>H51-5</b>	<b>Galaxy SB(s)dm</b>	<b>VF,EL,ME160,VGBM</b>
Jun 28 2019	12"	8mm Et	DIFF,F,S,OVAL,PEXT,UB,NND,R=F	
Sep 01 2005	8"	7.5mmW	MF,ML,NND,LSB,R=F	
<b>NGC 4250</b>		<b>H264-1</b>	<b>Galaxy SAB(r)0+</b>	<b>PB,S,R,PGBM</b>
Jun 28 2019	12"	8mm Et	PF,PS,OVAL,FNUC,R=G	
Aug 12 2010	12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Aug 06 2010	12"	7mm TV	PF,CS,OVAL,UB,NND,R=F	
<b>NGC 4256</b>		<b>H846-2</b>	<b>Galaxy SA(s)b: sp</b>	<b>PB,L,CE38,BMBN</b>
Jun 28 2019	12"	8mm Et	F,PS,EON,FNUC,R=G	
Aug 31 2010	12"	7mm TV	PF,PS,EON,FNUC,MSB,R=F. PA=170	
Jul 16 2009	16"	11mmT6	PS,EON,NND,R=F	
<b>NGC 4291</b>		<b>H275-1</b>	<b>Galaxy E</b>	<b>PB,VS,R,LBM,3*F</b>
Jun 28 2019	12"	8mm Et	VF,PS,OVAL,NND,R=P	
Apr 17 2015	18"	8mm Ds	F,S,ROUND,UB,NND,R=F	
Jul 14 2010	12"	7.5mmW	PF,CS,OVAL,FNUC,MSB,R=F	
<b>NGC 4319</b>		<b>H276-1</b>	<b>Galaxy SB(r)ab</b>	<b>PB,PS,VLE,SBM</b>
Jun 28 2019	12"	8mm Et	F,PS,OVAL,FNUC,R=G	
Jul 14 2010	12"	7.5mmW	CF,PS,R,UB,LSB,R=F	
<b>NGC 4332</b>		<b>H847-2</b>	<b>Galaxy SB(s)a</b>	<b>PF,S,VLE,VGBM</b>
Jul 14 2010	12"	7.5mmW	CF,PS,OVAL,UB,NND,R=F	

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<b>NGC 4386</b>		<b>H277-1</b>	<b>Galaxy SAB0<sup>+</sup>:</b>	<b>PB,CL,LE,PSMBM</b>
Jun 28 2019	12"	8mm Et	F,PS,MEXT,FNUC,R=G	
Jul 14 2010	12"	7.5mmW	PF,CS,OVAL,MEXT,FNUC,R=F	
<b>NGC 4391</b>		<b>H852-3</b>	<b>Galaxy SA0-:</b>	<b>CF,S,R,SBM,***SP</b>
Jul 14 2010	12"	7.5mmW	CF,VS,R,UB,NND,R=F	
<b>NGC 4441</b>		<b>H848-2</b>	<b>Galaxy SAB0<sup>+</sup> pec</b>	<b>PB,S,IR,BM</b>
Jul 14 2010	12"	7.5mmW	VF,PS,R,NND,AV,R=P	
<b>NGC 4512</b>			<b>Galaxy SB(s)dm</b>	<b>PB,S,R,PSBM</b>
Jun 28 2019	12"	8mm Et	PF,PS,EON,UB,NND,R=F	
Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,UB,NND,AV,R=P	
<b>NGC 4521</b>		<b>H849-2</b>	<b>Galaxy S0/a</b>	<b>PB,S,PME,PGBM,*P12S</b>
Aug 31 2010	12"	7mm TV	CF,PS,EON,UB,NND,R=G. PA=195	
<b>NGC 4545</b>		<b>H850-2</b>	<b>Galaxy SB(s)cd:</b>	<b>F,L,IR,VGBM,S*NF</b>
Feb 23 2006	31"	17mmT4	PB,PL,OVAL,FNUC,PHISB,R=G	
<b>NGC 4572</b>		<b>H939-3</b>	<b>Galaxy S</b>	<b>EF,S</b>
Feb 23 2006	31"	17mmT4	PF,FL,EON,NND,R=F	
<b>NGC 4589</b>		<b>H273-1</b>	<b>Galaxy E2</b>	<b>CB,L,LE,PGMBM</b>
Jun 28 2019	12"	8mm Et	F,S,OVAL,FNUC,R=G	
Feb 23 2006	31"	17mmT4	VB,FL,OVAL,BNUC,HISB,R=G	
<b>NGC 4648</b>		<b>H274-1</b>	<b>Galaxy E3</b>	<b>PB,CS,R,GBM,**P</b>
Jun 28 2019	12"	8mm Et	PF,PS,FNUC,R=G	
Feb 23 2006	31"	17mmT4	VB,FL,OVAL,BNUC,HISB,R=G	
<b>NGC 4693</b>		<b>H906-3</b>	<b>Galaxy Sd</b>	<b>VF,PLE</b>
Feb 23 2006	31"	17mmT4	MB,ML,EON,UB,NND,R=G	
<b>NGC 4749</b>		<b>H907-3</b>	<b>Galaxy Sb? sp</b>	<b>VF,CL,E135</b>
Feb 23 2006	31"	17mmT4	MB,ML,EON,UB,NND,R=G	
<b>NGC 4750</b>		<b>H78-4</b>	<b>Galaxy (R)SA(rs)ab</b>	<b>PB,L,R,VG,VSBM</b>
Jul 01 2019	12"	8mm Et	PF,PS,R,UB,NND,R=G	
Feb 23 2006	31"	17mmT4	VB,VL,R,BNUC,HISB,R=G	
<b>NGC 4857</b>		<b>H908-3</b>	<b>Galaxy SABb</b>	<b>EF,VS,IR,VLBM</b>
Feb 23 2006	31"	17mmT4	PB,FL,OVAL,FNUC,MSB,R=G	
<b>NGC 5667</b>		<b>H807-2</b>	<b>Galaxy Scd: pec</b>	<b>PB,PS,E0</b>
Aug 15 2015	12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	

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<b>NGC 5678</b>		<b>H237-1</b>	<b>Galaxy SAB(rs)b</b>	<b>B,L,LE0,VGMBM</b>
Jul 01 2019 12"	8mm Et	VF,PS,OVAL,UB,NND,R=F		
Aug 06 2010 12"	7mm TV	PF,PS,OVAL,UB,MSB,R=F		
<b>NGC 5777</b>		<b>H806-3</b>	<b>Galaxy Sb</b>	<b>VF,VS,LE</b>
May 23 2012 18"	11mmT6	PF,PS,EON,UB,NND,R=F, PA=100		
<b>NGC 5866</b>	<b>M102</b>	<b>H215-1</b>	<b>Galaxy SA0+ sp</b>	<b>VB,CL,PME146,GBM</b>
Jul 01 2019 12"	8mm Et	F,S,EON,FNUC,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 26 2006 8"	19mmW	B,S,OVAL,FNUC,MSB,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
<b>NGC 5879</b>		<b>H757-2</b>	<b>Galaxy SA(rs)bc:?</b>	<b>CB,S,E,MBMRN,R</b>
Jul 01 2019 12"	8mm Et	PF,S,OVAL,EEXT,UB,R=G		
Aug 12 2010 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Aug 06 2010 12"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=G		
<b>NGC 5894</b>		<b>H763-2</b>	<b>Galaxy SBdm?</b>	<b>PF,PS,E0</b>
Aug 06 2010 12"	7mm TV	VF,FS,PEXT,UB,NND,AV,R=F		
<b>NGC 5905</b>		<b>H758-2</b>	<b>Galaxy SB(r)b</b>	<b>PF,PS,IR</b>
Aug 06 2010 12"	7mm TV	DIFF,PF,PS,R,UB,NND,R=F		
<b>NGC 5907</b>		<b>H759-2</b>	<b>Galaxy SA(s)c: sp</b>	<b>CB,VL,VME155,VGPSBMN</b>
Jul 01 2019 12"	8mm Et	F,L,EON,UB,NND,R=G		
Jun 07 2010 12"	7.5mmW	PF,PL,EON,FNUC,FAINT BULGE,R=G		
Jul 23 2006 8"	11mmT6	PF,PS,EON,VFNUC,R=F		
<b>NGC 5908</b>		<b>H760-2</b>	<b>Galaxy SA(s)b: sp</b>	<b>PF,PS,R</b>
Jul 08 2019 12"	8mm Et	PF,PS,OVAL,MEXT,UB,NND,R=F		
Aug 06 2010 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5949</b>		<b>H906-2</b>	<b>Galaxy SA(r)bc?</b>	<b>F,S,LE45,VGLBM</b>
Jul 08 2019 12"	8mm Et	PF,PS,OVAL,NND,AV,R=P		
Aug 06 2010 12"	7mm TV	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 5963</b>		<b>H761-2</b>	<b>Galaxy S pec</b>	<b>PF,PS,IF</b>
Jul 08 2019 12"	8mm Et	VF,PS,OVAL,NND,AV,R=P		
Aug 06 2010 12"	7mm TV	PF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5965</b>		<b>H762-2</b>	<b>Galaxy Sb</b>	<b>CF,CL,LE</b>
Aug 06 2010 12"	7mm TV	CF,CS,EON,UB,NND,R=F		

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<b>NGC 5981</b>			<b>Galaxy Sc? sp</b>	<b>F,ME</b>
Jul 26 2019	12"	8mm Et	VF,PS,EON,NND,AV3,R=P	
Aug 15 2015	12"	8mm Ds	VF,VS,EON,UB,NND,AV1,R=P	
<b>NGC 5982</b>		<b>H764-2</b>	<b>Galaxy E3</b>	<b>CB,S,R,PSBM,R</b>
Jul 08 2019	12"	8mm Et	VF,VS,R,NND,AV,R=P	
Jul 01 2019	12"	8mm Et	PF,PS,R,UB,NND,R=F	
Aug 15 2015	12"	8mm Ds	F,PS,OVAL,FNUC,R=F	
Apr 13 2005	8"	11mmT6	VF,VS,OVAL,NND,R=F	
<b>NGC 5985</b>		<b>H766-2</b>	<b>Galaxy SAB(r)b</b>	<b>PB,CL,IE,R</b>
Jul 08 2019	12"	8mm Et	PF,PS,OVAL,FNUC,R=G	
Aug 15 2015	12"	8mm Ds	DIFF,PF,S,OVAL,UB,NND,R=F	
Sep 07 2005	8"	11mmT6	MB,ML,EL,OVAL,FNUC,MSB,R=G	
Apr 13 2005	8"	11mmT6	MB,ML,EL,OVAL,FNUC,R=G	
<b>NGC 5987</b>		<b>H765-2</b>	<b>Galaxy Sb</b>	<b>PF,CS</b>
Aug 06 2010	12"	7mm TV	PF,PS,OVAL,PEXT,FNUC,MSB,R=G	
<b>NGC 5989</b>		<b>H738-3</b>	<b>Galaxy Scd?</b>	<b>VF,VS</b>
Aug 15 2015	12"	8mm Ds	VF,PS,OVAL,UB,NND,R=F	
<b>NGC 6015</b>		<b>H739-3</b>	<b>Galaxy SA(s)cd</b>	<b>VF,PL,R,VGBM</b>
Jul 01 2019	12"	8mm Et	VF,PS,UB,NND,R=P	
Sep 07 2005	8"	11mmT6	VF,VS,EL,OVAL,NND,R=F	
<b>NGC 6090</b>			<b>Galaxy S0?</b>	<b>VF,S,R</b>
Aug 15 2015	12"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 6125</b>		<b>H810-2</b>	<b>Non-Existent</b>	
Jul 08 2019	12"	8mm Et	PF,VS,OVAL,FNUC,R=G	
<b>NGC 6127</b>			<b>Non-Existent</b>	<b>PF,VS,R</b>
Sep 05 2010	12"	7mm TV	PF,PS,R,FNUC,R=G	
<b>NGC 6140</b>		<b>H740-3</b>	<b>Galaxy SB(s)cd pec</b>	<b>CF,PL,IR</b>
Jul 08 2019	12"	8mm Et	DIFF,PF,S,OVAL,UB,NND,R=F	
Sep 07 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 6189</b>			<b>Galaxy Scd:</b>	<b>VF,PS,LE</b>
Sep 05 2010	12"	7mm TV	VF,CS,OVAL,UB,NND,AV,R=F,PA=65	
<b>NGC 6190</b>			<b>Galaxy Scd:</b>	<b>VF,PS,R,F*NR</b>
Sep 05 2010	12"	5.5mmN	CF,CS,R,UB,NND,R=F	
<b>NGC 6211</b>			<b>Galaxy SB(r)0^ pec:</b>	<b>VF,PS,R,SP OF 2</b>
Sep 05 2010	12"	7mm TV	PF,PS,OVAL,FNUCC,R=F,PA=95	

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<b>NGC 6223</b>		<b>Galaxy Pec</b>	<b>F,S,R,MBM</b>
Sep 05 2010 12"	7mm TV	PF,PS,OVAL,FNUC,R=F,PA=140	
<b>NGC 6226</b>		<b>Galaxy Pec</b>	<b>F,S,TRIW/2*12\$14</b>
Sep 05 2010 12"	5.5mmN	CF,VS,OVAL,UB,NND,R=F,PA=90	
<b>NGC 6232</b>		<b>Galaxy (R')SB(s)a</b>	<b>PF,PL,LE</b>
Sep 05 2010 12"	7mm TV	CF,PS,R,UB,NND,R=F	
<b>NGC 6236</b>		<b>Galaxy SAB(s)cd</b>	<b>F,PL</b>
Jul 08 2019 12"	8mm Et	VMOSMIVAKMUB,NND,R=F	
Sep 05 2010 12"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F,PA=45	
<b>NGC 6247</b>		<b>Galaxy Pec</b>	<b>F,PS,IF</b>
Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 6306</b>		<b>Galaxy SB(s)ab pec:</b>	<b>VF,VS,LE</b>
Sep 05 2010 12"	5.5mmN	VF,VS,OVAL,UB,NND,AV,R=F,PA=10 PAIRED WITH NGC 6307	
<b>NGC 6307</b>		<b>Galaxy (R')SB(s)0/a p</b>	<b>VF,VS,LE,*13NR N</b>
Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,FNUC,R=F,PA=10 PAIRED WITH NGC 6306	
<b>NGC 6310</b>		<b>Galaxy Sb: sp</b>	<b>F,PL,LE</b>
Sep 05 2010 12"	5.5mmN	CF,CS,EON,UB,NND,R=F,PA=110	
<b>NGC 6338</b>		<b>H812-2 Galaxy S0</b>	<b>F,S,R,VGLBM</b>
Apr 29 2011 12"	5mm TV	VF,CS,OVAL,UB,NND,R=F	
<b>NGC 6340</b>		<b>H767-2 Galaxy SA(s)0/a</b>	<b>CF,PL,R,VGMBM</b>
Jul 01 2019 12"	8mm Et	PF,PS,R,UB,R=G	
Sep 07 2005 8"	11mmT6	MB,ML,R,FNUC,MSB,R=G	
<b>NGC 6359</b>		<b>Galaxy SA0-:</b>	<b>PB,S,R,BMN=*12</b>
Sep 05 2010 12"	5.5mmN	PF,CS,OVAL,FNUC,R=F,PA=5	
Aug 12 2010 12"	7mm TV	PF,PS,R,NND,R=F	
<b>NGC 6361</b>		<b>Galaxy SAb: sp</b>	<b>VF,PS,ME,NEAR BET 2*</b>
Sep 05 2010 12"	5.5mmN	CF,CS,EON,UB,NND,R=F,PA=95	
<b>NGC 6370</b>		<b>Galaxy E</b>	<b>VF,VS,R,B*NR N</b>
Apr 29 2011 12"	5mm TV	CF,CS,R,UB,NND,R=F,STAR TO S.W.	
<b>NGC 6381</b>		<b>Galaxy SA(s)c?</b>	<b>VF,PL,E</b>
Sep 05 2010 12"	5.5mmN	VF,CS,OVAL,UB,NND,AV,R=P,PA=90	
<b>NGC 6395</b>		<b>Galaxy Scd:</b>	<b>VF,PL,LE,D*N</b>
Jul 08 2019 12"	8mm Et	VF,VS,OVAL,NND,AV2,R=P	

## Draco - The Dragon

<b>NGC 6395</b>			<b>Galaxy Scd:</b>	<b>VF,PL,LE,D*N</b>	
Sep 05 2010	12"	5.5mmN	VF,CS,EON,UB,NND,AV,R=F,PA=75		
<b>NGC 6411</b>			<b>Galaxy E</b>	<b>VS,GBM</b>	
Sep 05 2010	12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,NSB,R=G,PA=105		
<b>NGC 6412</b>			<b>H41-6</b>	<b>Galaxy SA(s)c</b>	<b>GCL,CL,R,VGBM,RR</b>
Jul 26 2019	12"	8mm Et	DIFF,F,S,UB,NND,R=F		
Sep 05 2010	12"	5.5mmN	DIFF,PF,PS,OVAL,NND,R=F,PA=170		
<b>NGC 6434</b>			<b>H741-3</b>	<b>Galaxy SBbc:</b>	<b>VF,VS,R,STELLAR,*8S</b>
Sep 05 2010	12"	5.5mmN	PF,CS,OVAL,PEXT,NND,R=F,PA=160		
<b>NGC 6454</b>			<b>Galaxy S?</b>	<b>VF,PS,R,LBM</b>	
Jul 26 2019	12"	8mm Et	VF,VS,R,NND,AV3,R=P		
<b>NGC 6503</b>			<b>Galaxy SA(s)cd</b>	<b>PF,L,ME,*9F4'</b>	
Jul 01 2019	12"	8mm Et	F,S,EON,FNUC,R=G		
Oct 21 2012	8"	5mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 6508</b>			<b>Galaxy E:</b>	<b>VF,S,3ST NR</b>	
Sep 05 2010	12"	5.5mmN	CF,PS,R,UB,NND,R=F		
<b>NGC 6521</b>			<b>Galaxy E</b>	<b>F,PL,3RD OF 3</b>	
Apr 29 2011	12"	5mm TV	CF,CS,R,UB,NND,R=F		
<b>NGC 6543</b>			<b>H37-4</b>	<b>Planetary Neb 3a+2</b>	<b>PLN,VB,PS,SBMVSN</b>
May 31 2019	12"	11mmT6			
Oct 21 2012	8"	5mm TV	B,PS,OVAL IN SHAPE,R=F		
Sep 05 2010	12"	5.5mmN	PB,PS,R=G, NO CENTRAL STAR NOTED. OIII NOT MUCH HELP - NO ADDITIONAL STRUCTURE		
Jul 09 2005	8"	11mmT6	VB,VS,OVAL,R=G		
Apr 13 2005	8"	11mmT6	VB,VS,R,R=G		
<b>NGC 6621</b>			<b>Galaxy Sb: pec</b>	<b>PF,PS,R,LBM,S OF 2</b>	
Aug 24 2012	18"	7mm TV	VF,VS,EON,UB,NND,AV1,R=F		
<b>NGC 6643</b>			<b>Galaxy SA(rs)c</b>	<b>PB,PL,E50,2ST P</b>	
Jul 08 2019	12"	11mmT6	F,PS,OVAL,UB,NND,R=F		
Sep 07 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 6651</b>			<b>Galaxy SA(r)c</b>	<b>EEF,PS,LE,VDIFFIC</b>	
Apr 29 2011	12"	5mm TV	VF,CS,OVAL,UB,NND,R=F		
<b>NGC 6654</b>			<b>Galaxy (R')SB(s)0/a</b>	<b>*12,13INPB,PL NEBY</b>	
Jul 26 2019	12"	8mm Et	PF,PS,R,UB,NND,R=F		

## Draco - The Dragon

<b>NGC 6654</b>			<b>Galaxy (R')SB(s)0/a</b>	<b>*12,13INPB,PL NEBY</b>
Jul 27 2009	16"	11mmT6	PF,PS,EL,OVAL,NND,R=F	
<b>NGC 6667</b>			<b>Galaxy SABab? pec</b>	<b>VF,PL,LE,VF D* NR</b>
Jul 27 2009	16"	11mmT6	CF,PS,EON,NND,AV,R=F	
<b>NGC 6677</b>			<b>Galaxy Compact</b>	<b>VF,VS,BET*VNR\$VF D*</b>
Sep 05 2010	12"	5.5mmN	PF,CS,R,UB,NNE,R=F	
<b>NGC 6689</b>			<b>Galaxy Sd? sp</b>	<b>VF,PS,*8F7'DIST</b>
Jul 26 2019	12"	8mm Et	VF,S,EON,NND,R=F	
<b>NGC 6690</b>			<b>Non-Existent</b>	
Jul 27 2009	16"	11mmT6	PF,PS,EON,UB,NND,R=F	
<b>NGC 6691</b>			<b>Galaxy SB(rs)bc</b>	<b>VF,PL,R,PB*S NR</b>
Apr 29 2011	12"	5mm TV	CF,VS,R,UB,NND,R=F	
<b>NGC 6701</b>			<b>Galaxy (R')SB(s)a</b>	<b>PB,PS,ME,F*CLOSE F</b>
Jul 26 2019	12"	8mm Et	VF,VS,R,NND,AV1,R=P	
Sep 05 2010	12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,MSB,R=G,PA=30	
<b>NGC 6742</b>			<b>H742-3</b>	<b>Planetary Neb 2c</b>
Sep 05 2010	12"	5.5mmN	CF,CS,R=F. NO CENTRAL STAR NOTED. OIII ADDS NOTHING.	<b>VF,STELLAR</b>
<b>NGC 6750</b>			<b>Galaxy Sc</b>	<b>VF,VS,R</b>
Sep 05 2010	12"	5.5mmN	CF,PS,OVAL,MET,UB,NND,R=F,PA=35	
<b>NGC 6757</b>			<b>Galaxy SB(r)0/a</b>	<b>PF,ME,3F*INV</b>
Sep 05 2010	12"	5.5mmN	DIFF,CF,PS,OVAL,UB,NND,R=F,PA=105	
<b>NGC 6786</b>			<b>Galaxy SB?</b>	<b>EEF,S,R,2ST NF</b>
Sep 05 2010	12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F,PA=85	
<b>NGC 6789</b>			<b>Galaxy Im</b>	<b>EEF,PL,R,VDIFFIC</b>
Sep 05 2010	12"	5.5mmN	VF,PS,OVAL,UB,NND,AV,R=F,PA=120	
<b>NGC 6796</b>			<b>Galaxy Sbc: sp</b>	<b>VF,PS,ME NS</b>
Sep 05 2010	12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=45	
<b>NGC 6832</b>			<b>Non-Existent</b>	<b>CL,VL,LC,ST7...</b>
Jul 26 2019	12"	8mm Et	LARGE,LOOSE,R=F	
<b>NGC 6869</b>			<b>Galaxy S0</b>	<b>PB,PS,R</b>
Jul 26 2019	12"	8mm Et	PF,PS,R,UB,NND,R=F	
Jul 27 2009	16"	11mmT6	PF,PS,R,UB,NND,R=F	



## Draco - The Dragon

**PGC 33277**

Jul 13 2013 18" 7mm TV VF,VS,OVAL,UB,NND,AV,R=P

Feb 23 2006 31" 17mmT4 FF,PS,EL,NND,R=F

**Galaxy Sab**

**PGC 58960**

May 23 2012 18" 8.8 ES CF,CS,EON,UB,NND,AV2,R=F,PA=95

**Galaxy Sb**

## Equuleus - The Little Horse

**NGC 7046**

Sep 19 2014 18" 8mm Ds VF,PS,OVAL,UB,NND,R=F, WRO - 9/19/14

**H858-3**

**Galaxy SB(rs)cd**

**EF,PL,R,LBM**

## Eridanus - The River

<b>IC 347</b>			<b>Galaxy SAB(r)0<sup>+</sup>:</b>	
Nov 24 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>IC 1898</b>			<b>Galaxy SB(s)c: sp</b>	
Nov 24 2006 8"	11mmT6	VF,S,EON,NND,AV,R=F		
<b>IC 1953</b>			<b>Galaxy SB(rs)d</b>	
Nov 24 2006 8"	11mmT6	VF,S,OVAL,NND,AV,R=F		
<b>IC 2118</b>			<b>Non-Existent</b>	
Mar 06 2005 8"	25mmPL	MF,VL,LSB,R=G OIII FILTER		
<b>NGC 1081</b>			<b>Galaxy SB(s)b?</b>	<b>EF,PS,R</b>
Jan 26 2006 8"	11mmT6	VF,VS,EL,EON,NND,AV,R=F		
<b>NGC 1084</b>		<b>H64-1</b>	<b>Galaxy SA(s)c</b>	<b>VB,PL,E,GPMBM</b>
Jan 26 2006 8"	11mmT6	MB,ML,OVAL,NND,R=F		
<b>NGC 1110</b>			<b>Galaxy SB(s)m: sp</b>	<b>EF,PL,E348</b>
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F		
<b>NGC 1114</b>		<b>H449-3</b>	<b>Galaxy SA(r)c</b>	<b>PF,PL,PME,GLBM</b>
Nov 08 2010 12"	5.5mmN	VF,CS,PEXT,UB,NND,R=F,PA=100		
<b>NGC 1132</b>			<b>Galaxy E</b>	<b>EF,PL,GBM,*8F</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F		
<b>NGC 1145</b>			<b>Galaxy Sc: sp</b>	<b>F,PL,PME,2S* F</b>
Dec 12 2012 36"	17mmT4	PF,PS,E3ON,UB,NND,R=F,PA=18		
<b>NGC 1162</b>		<b>H469-3</b>	<b>Galaxy E:</b>	<b>F,R,GLBM,STELLAR</b>
Nov 08 2010 12"	5.5mmN	VF,CS,OVAL,UB,NND,AV2,R=F		
<b>NGC 1163</b>			<b>Galaxy SBbc? sp</b>	<b>VF,PS,ME75</b>
Dec 12 2012 36"	17mmT4	PF,PS,EON, FNUC,R=F,PA=140		
<b>NGC 1172</b>		<b>H502-2</b>	<b>Galaxy E+:</b>	<b>PF,PL,R,PSBM</b>
Jan 26 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 1187</b>		<b>H245-3</b>	<b>Galaxy SB(r)c</b>	<b>PF,CL,PME,GBM*16,R</b>
Jan 26 2006 8"	11mmT6	MF,MS,OVAL,NND,R=F		
<b>NGC 1199</b>		<b>H503-2</b>	<b>Galaxy E3:</b>	<b>CB,PS,IR,SMBM</b>
Jan 26 2006 8"	11mmT6	VF,VS,R,NND,AV,R-F		
<b>NGC 1209</b>		<b>H504-2</b>	<b>Galaxy E6:</b>	<b>B,S,CE,PSBM</b>
Nov 08 2010 12"	7mm TV	PF,PS,OVAL,PEXT,FNUC,MSB,R=F		

## Eridanus - The River

<b>NGC 1232</b> Jan 26 2006 8"	11mmT6	<b>H258-2</b> DIFF,VF,ML,R,NND,R=F	<b>Galaxy SAB(rs)c</b>	<b>PB,CL,R,GBM,R</b>
<b>NGC 1241</b> Jan 26 2006 8"	11mmT6	<b>H286-2</b> DIFF,VF,MS,OVAL,NND,R=F	<b>Galaxy SB(rs)b</b>	<b>F,PL,R,VGLBM,*9N</b>
<b>NGC 1300</b> Jan 26 2006 8"	11mmT6	<b>H77-4</b> VF,MS,R,NND,AV,R=F	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,VME,PSVMBM</b>
<b>NGC 1325</b> Nov 08 2010 12"	7mm TV	<b>H77-4</b> PF,PS,EON,BNUC,MSB,R=G,PA=160	<b>Galaxy SA(s)bc</b>	<b>F,ME239,COM,*9.5ATT</b>
<b>NGC 1332</b> Nov 08 2010 12"	11mmT6	<b>H60-1</b> PF,PS,EON,LFNUC,MSB,R=G,PA=170	<b>Galaxy S(s)0-: sp</b>	<b>VB,S,E114,SMBMN</b>
<b>NGC 1353</b> Nov 08 2010 12"	11mmT6	<b>H246-3</b> PF,PS,OVAL,MEXT,UB,HSB,R=G	<b>Galaxy SB(rs)b:</b>	<b>PB,CL,IE,MBM</b>
<b>NGC 1400</b> Nov 08 2010 12"	11mmT6	<b>H593-2</b> PF,CS,R,BNUC,R=G	<b>Galaxy SA0-</b>	<b>CB,PS,R,PSMBM</b>
<b>NGC 1402</b> Nov 08 2010 12"	5.5mmN	<b>H593-2</b> VF,VS,R,UB,NND.AV1,R=F	<b>Galaxy SB0^ pec:</b>	<b>EF,VS,R</b>
<b>NGC 1407</b> Nov 08 2010 12" Nov 21 2006 8"	11mmT6 11mmT6	<b>H107-1</b> PF,PS,R,BNUC,R=G PF,L,R,NND,R=G	<b>Galaxy E0</b>	<b>VB,L,R,SVMBMN</b>
<b>NGC 1417</b> Jan 26 2006 8"	11mmT6	<b>H455-2</b> VF,MS,OVAL,NND,R=F	<b>Galaxy SAB(rs)b</b>	<b>PF,PL,LE,LBM,*SF</b>
<b>NGC 1421</b> Nov 08 2010 12"	11mmT6	<b>H291-2</b> PF,PS,OVAL,UB,NND,R=G,PA=40	<b>Galaxy SAB(rs)bc:</b>	<b>F,CL,ME0,R</b>
<b>NGC 1507</b> Nov 08 2010 12"	11mmT6	<b>H279-2</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy SB(s)m pec?</b>	<b>VF,PL,ME,VLBM,ER</b>
<b>NGC 1535</b> Feb 17 2012 18" Nov 11 2009 12" Dec 28 2008 31" Nov 21 2006 8"	11mmT6 7.5mmW 17mmT4 11mmT6	<b>H26-4</b> OIII FILTER - VERY NICE PLANETARY B,PS,R=G, NO CENTRAL STAR NOTED. VB,PS,R,R=G,BRIGHT CENTRAL STAR!!, OIII B,PS,R, NO CENTRAL STAR,R=F	<b>Planetary Neb 4+2c</b>	<b>PLN,VB,S,R,PS,VSBM,R</b>
<b>NGC 1600</b> Nov 08 2010 12"	11mmT6	<b>H158-1</b> PF,LPS,R,FNUC,MSB,R=F	<b>Galaxy E3</b>	<b>PB,PL,R,GMBM</b>
<b>NGC 1618</b>		<b>H524-2</b>	<b>Galaxy SB(r)b:</b>	<b>F,S,IF,LBM,2*SF</b>

## Eridanus - The River

<b>NGC 1618</b>		<b>H524-2</b>	<b>Galaxy SB(r)b:</b>	<b>F,S,IF,LBM,2*SF</b>
Nov 08 2010 12"	11mmT6	CF,PS,EON,UB,NND,R=F		
<b>NGC 1622</b>			<b>Galaxy SAB(r)ab:</b>	<b>VF,S,*20P5S,1618P</b>
Nov 08 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 1637</b>		<b>H122-1</b>	<b>Galaxy SAB(rs)c</b>	<b>CB,L,R,VGBM</b>
Nov 08 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 1653</b>		<b>H526-2</b>	<b>Galaxy E+:</b>	<b>F,CS,R,LBM</b>
Dec 15 2004 8"	11mmT6	MF,R,NND,AV,R=F		
<b>NGC 1667</b>			<b>Galaxy SBc</b>	<b>PF,PS,R,(R)</b>
Dec 15 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 1700</b>		<b>H32-4</b>	<b>Galaxy E4</b>	<b>CB,S,MBM*</b>
Dec 04 2004 8"	11mmT6	MB,EL,FNUC,MSB,R=G		
<b>NGC 1721</b>			<b>Galaxy (R')SAB(s)0^ p</b>	<b>VF,VS,R</b>
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 1723</b>			<b>Galaxy SB(r)a pec</b>	<b>F,BET2*9,10N\$\$,3RD*F</b>
Dec 04 2004 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
<b>NGC 1725</b>			<b>Galaxy E/S0</b>	<b>EF,VS,R</b>
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 1726</b>			<b>Galaxy SA(s)0^:</b>	<b>F,R,*13,S</b>
Dec 15 2004 8"	11mmT6	MF,OVAL,FNUC,R=G		
<b>NGC 1728</b>			<b>Galaxy Sa pec sp</b>	<b>VF,VS,R</b>
Dec 04 2004 8"	11mmT6	VF,EON,NND,AV,R=F		
<b>NGC 1779</b>		<b>H500-3</b>	<b>Galaxy (R')SAB(r)0/a?</b>	<b>PB,S,R,GPMBM</b>
Nov 24 2006 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>PGC 15620</b>			<b>Galaxy (R')SB(rs)0+:</b>	
Feb 20 2006 31"	17mmT4	MB,ML,R,FNUC,MSB,R=G		
<b>PGC 15624</b>			<b>Galaxy S?</b>	
Feb 20 2006 31"	17mmT4	MF,MS,OVAL,NND,R=F		
<b>PGC 15631</b>			<b>Galaxy (R')SAB(rs)0+:</b>	
Feb 20 2006 31"	17mmT4	MB,ML,OVAL,FNUC,R=G		
<b>PGC 15636</b>			<b>Galaxy S</b>	
Feb 20 2006 31"	17mmT4	MF,MS,OVAL,FNUC,R=F		

## These Need Fixed - Temporary Holder

<b>HENIZ 2-260</b>			<b>Planetary Neb</b>
Jul 24 2006 8"	7.5mmW	VF,VS,R,AV,R=F	
<b>HENIZ 2-441</b>			<b>Planetary Neb 4</b>
Aug 12 2005 8"	7.5mmW	VF,VS,AV,R=F	
<b>MERR 2-2</b>			<b>Planetary Neb 1</b>
Jul 24 2006 8"	7.5mmW	VF,VS,R,AV,R=F	
<b>MINK 1-74</b>			<b>Planetary Neb 1</b>
Aug 12 2005 8"	7.5mmW	VF,VS,AV,R=F	
<b>MINK 3-34</b>			<b>Planetary Neb 2</b>
Jul 03 2005 8"	11mmT6	DIFF,VF,VS,AV,R=F	
<b>PK 158+17.1</b>			<b>Planetary Neb 3</b>
Feb 20 2006 31"	17mmT4	DIFF,VS,R=F, OIII FILTER	

## Fornax - The Furnace

<b>NGC 1097</b>		<b>H48-5</b>	<b>Galaxy SB(s)b</b>	<b>VB,L,VME151,VBMN</b>
Nov 21 2006 8"	11mmT6	F,L,OVAL,FNUC,R=F		
<b>NGC 1360</b>			<b>Planetary Neb 3</b>	<b>*8IN B,LNEB,E NS</b>
Dec 28 2008 31"	17mmT4	PF,PS,EL,R,R=G, CENTRAL STAR, OIII		

## Gemini - The Twins

<b>CR 89</b>		<b>Galaxy IV2pn</b>	
Dec 28 2006 1.9"	12x50	LARGE,FEW STARS,R=F	
<b>IC 443</b>		<b>Nebula E</b>	
Nov 25 2006 8"	11mmT6	F,EL,R=F	
<b>IC 2157</b>		<b>Open Cluster 12.0 II 1 p</b>	
Nov 25 2006 8"	11mmT6	F,S,LOSE GROUPING,R=F	
<b>NGC 2129</b>		<b>H26-8</b>	<b>Open Cluster 10.0 I 3 m</b>
Dec 15 2004 8"	11mmT6	R, R=G	CL,PL,40OR50ST8...15
<b>NGC 2158</b>		<b>H17-6</b>	<b>Open Cluster 15.0 II 3 r</b>
Dec 04 2004 8"	11mmT6	OVAL,R=F	CL,PS,MC,VRI,IRRTRI
<b>NGC 2168</b>	<b>M35</b>		<b>Open Cluster 8.0 III 3 r</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	CL,VL,CRI,PC,ST9..16
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"	20mmUV		
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	
<b>NGC 2266</b>		<b>H21-6</b>	<b>Open Cluster 11.0 II 2 m</b>
Mar 04 2006 8"	19mmW	MB,S,R=F	CL,PS,EC,RI,ST11..15
<b>NGC 2274</b>		<b>H615-2</b>	<b>Galaxy E</b>
Apr 09 2008 8"	11mmT6	PF,VS,EON,NND,LSB,AV,R=F	F,S,BM
<b>NGC 2289</b>		<b>H898-3</b>	<b>Galaxy S0</b>
Sep 24 2016 12"	17mmT4	B,L,R=E. CAROLINE'S ROSE.	EF,VS
<b>NGC 2304</b>		<b>H2-6</b>	<b>Open Cluster II 1 m</b>
Mar 04 2006 8"	19mmW	F,S,R=F	CL,PL,RI,MC,ST VS
<b>NGC 2331</b>		<b>H40-8</b>	<b>Open Cluster 9.0 IV 2 m</b>
Apr 09 2008 8"	11mmT6	F,S,SCATTERED,R=F	CL,L,VLC,S CL INV
Nov 25 2006 8"	11mmT6	F,LOOSE GROUP,R=F	
<b>NGC 2339</b>		<b>H769-2</b>	<b>Galaxy SAB(rs)bc</b>
Dec 15 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F	PB,PL,R,GLBM

## Gemini - The Twins

<b>NGC 2342</b> Nov 25 2006 8"	11mmT6	VF,S,R,NND,AV,R=F	<b>Galaxy S pec</b>	<b>PF,S,LE,VLBM</b>
<b>NGC 2355</b> Mar 04 2006 8"	19mmW	B,S,R=F	<b>H6-6</b> <b>Open Cluster 13.0 II 2 m</b>	<b>CL,PS,PRI,MC,*15..16</b>
<b>NGC 2371</b> Feb 23 2006 31" Dec 04 2004 8"	19mmW 7.5mmW	FAIRLY LONG, ELONG,MSB,R=G MF,OVAL,R=G	<b>H316-2</b> <b>Planetary Neb 3a+2</b>	<b>B,S,R,BMN,P OF DNEB</b>
<b>NGC 2372</b> Nov 21 2006 8"	11mmT6	B,S,OVAL,R=F	<b>H317-2</b> <b>Non-Existent</b>	<b>PB,S,R,BMN,F OF DNEB</b>
<b>NGC 2392</b> May 22 2015 12" Dec 04 2004 8" Nov 06 2004 8"	8mm Ds 7.5mmW 11mmT6	NO FILTER NEEDED CENTRAL STAR VISIBLE VB,R,HISB,R=E!!! NOT A BAD PLANETARY	<b>H45-4</b> <b>Planetary Neb 3b+3b</b>	<b>B,S,R,*9M,*8NF100"</b>
<b>NGC 2395</b> Mar 04 2006 8"	19mmW	F,S,R=F	<b>H11-8</b> <b>Open Cluster 10.0 IV 2 m</b>	<b>CL,PRI,C</b>
<b>NGC 2420</b> Mar 04 2006 8"	19mmW	ML,PB,R=G	<b>H1-6</b> <b>Open Cluster 11.0 I 1 r</b>	<b>CL,CL,RI,C,ST11...18</b>
<b>PGC 20695</b> Feb 20 2006 31"	17mmT4	MF,ML,R,NND,R=F	<b>Galaxy Sa:</b>	
<b>PGC 20881</b> Feb 20 2006 31"	17mmT4	MB,MS,R,FNUC,MSB,R=G	<b>Galaxy SB?</b>	
<b>PGC 20977</b> Feb 23 2006 31"	19mmW	PF,PS,EON,NND,R=F	<b>Galaxy</b>	
<b>PGC 20988</b> Feb 23 2006 31"	19mmW	VF,PS,R,NND,R=F	<b>Galaxy Double System</b>	
<b>PGC 21032</b> Feb 23 2006 31"	19mmW	VF,VS,OVAL,NND,R=F	<b>Galaxy Sb</b>	
<b>PGC 21064</b> Feb 23 2006 31"	19mmW	PF,FS,OVA,NND,R=F	<b>Galaxy</b>	

## Hercules - The Son of Zeus

<b>IC 1152</b>			<b>Galaxy E</b>	
May 21 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F		
<b>IC 1153</b>			<b>Galaxy S0</b>	
May 21 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F		
<b>IC 1156</b>			<b>Galaxy E</b>	
May 21 2009 16"	11mmT6	VF,CS,OVAL,NND,AV,R=F		
<b>IC 4593</b>			<b>Planetary Neb 2+2</b>	
Aug 02 2019 12"	17mm O	PF,VS,R=P. OIII		
Jun 03 2005 31"	19mmW	VB,VS,R,HISB,R=G		
<b>IC 4615</b>			<b>Non-Existent</b>	
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>MAC 1644+4005</b>			<b>Galaxy</b>	
Jul 16 2009 16"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>NGC 6013</b>			<b>Galaxy SBb</b>	<b>EF,VS,IR,LBM</b>
May 21 2009 16"	11mmT6	VF,CS,EL,OVAL,NND,AV,R=F		
<b>NGC 6028</b>			<b>Galaxy (R)SA0+:</b>	<b>VF,PS,NO NUCL</b>
Jul 16 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		
<b>NGC 6030</b>			<b>Galaxy S0^</b>	<b>PF,VS,R,BM</b>
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F,VSMALL, 14.5MG		
<b>NGC 6032</b>			<b>Galaxy SB(rs)b:</b>	<b>VF,PL,LE,VLBM,NP OF2</b>
Jul 16 2007 31"	17mmT4	PF,CS,EON,NND,R=F		
<b>NGC 6035</b>			<b>Galaxy SAB(rs)c</b>	<b>VF,PL,LE,SF OF 2</b>
Jul 16 2007 31"	17mmT4	PF,PS,R,NND,R=F		
<b>NGC 6043A</b>			<b>Galaxy SB0</b>	
May 21 2009 16"	11mmT6	CF,PS,R,UB,NND,R=F		
<b>NGC 6052</b>			<b>Non-Existent</b>	<b>F,PL,IR,(=6064)</b>
Sep 19 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F, WRO - 9/19/14		
<b>NGC 6058</b>		<b>H637-3</b>	<b>Planetary Neb 3+2</b>	<b>PF,VS,R,STELLAR</b>
Nov 13 2007 8"	11mmT6	VF,VS,AV,R=F, NO CENTRAL STAR		
<b>NGC 6060</b>			<b>Galaxy SAB(rs)c</b>	<b>EF,E,SBM</b>
Oct 17 2004 8"	7.5mmW	MF,OVAL,FNUC,R=G, 14.3 MAG!		
<b>NGC 6081</b>			<b>Galaxy S0</b>	<b>VF,S,R,BM</b>



## Hercules - The Son of Zeus

<b>NGC 6081</b>		<b>Galaxy S0</b>	<b>VF,S,R,BM</b>
May 21 2009 16"	11mmT6	PF,PS,EON,UB,NND,R=F	
<b>NGC 6106</b>		<b>H151-2 Galaxy SA(s)c</b>	<b>F,PL,LE,VGBM,R</b>
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F	
<b>NGC 6146</b>		<b>H638-3 Galaxy E?</b>	<b>CF,VS,R,BM</b>
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F	
<b>NGC 6154</b>		<b>H680-3 Galaxy SB(r)a</b>	<b>VF,S,R,LBM,ER</b>
Oct 17 2004 8"	7.5mmW	VF,EL,OVAL,NND,AV,R=F	
<b>NGC 6155</b>		<b>Galaxy S?</b>	<b>F,PS,IF,GBM</b>
Oct 05 2016 12"	8mm Et	PF,VS,UB,NND,R=F	
Oct 17 2004 8"	7.5mmW	VF,EON,NND,AV,R=F	
<b>NGC 6166</b>		<b>H875-2 Galaxy E+2 pec</b>	<b>PF,S,VLE,VGMBM</b>
Oct 05 2016 12"	8mm Et	PF,PS,OVAL,MEXT,NND,R=F	
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F	
<b>NGC 6173</b>		<b>H640-3 Galaxy E</b>	<b>CF,VS,R,BM</b>
Oct 17 2004 8"	7.5mmW	VF,EL,FNUC,AV,R=F	
<b>NGC 6181</b>		<b>H753-2 Galaxy SAB(rs)c</b>	<b>PB,PL,VLE,PGMBM</b>
Aug 02 2019 12"	17mm O	PF,PS,OVAL,PEXT,UB,NND,R=F	
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F	
<b>NGC 6186</b>		<b>H730-3 Galaxy (R')SB(s)a</b>	<b>EF,VS,E</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 6196</b>		<b>Galaxy SAB0-: pec</b>	<b>VF,VS,STELLAR</b>
Mar 18 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	
<b>NGC 6205</b>	<b>M13</b>	<b>Globular</b>	<b>GCL,EB,VRI,VGECM,*11</b>
Jun 19 2020 12"	13mmHV	B,L,R=E	
Sep 26 2019 12"	11mmT6		
Jun 03 2019 12"	8mm Et		
Apr 20 2018 12"	11mmT6		
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	

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<b>NGC</b>	<b>6205</b>	<b>M13</b>	<b>Globular</b>	<b>GCL,EB,VRI,VGECM,*11</b>
	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.
<b>NGC</b>	<b>6207</b>	<b>H701-2</b>	<b>Galaxy SA(s)c</b>	<b>PB,PL,E45,VGMBM</b>
	Jul 16 2007	16"	11mmT6	PF,PS,EL.OVAL,FNUC,R=F
	Mar 18 2007	8"	11mmT6	PF,L,OVAL,NND,R=F
	Jun 03 2005	31"	19mmW	VB,ML,OVAL,FNUC,HISB,R=G
	Sep 12 2004	8"	11mmT6	F,S,EL, NND,AV,F
<b>NGC</b>	<b>6210</b>		<b>Planetary Neb 2+3b</b>	<b>PLN,VB,VS,R,DISC</b>
	Aug 02 2019	12"	17mm O	B,VS,R=F. OIII
	Jul 07 2018	12"	8mm Et	PBB,S,R=E. OIII FILTER. ROUND DONUT
	Jun 17 2016	12"	8mm Ds	TURTLE PLANETARY. NO CENTRAL STAR NOTED
	Sep 19 2014	12"	11mmT6	B,VS,R=F,SITS ATOP 3-STAR TRIANGLE -N.N., HOME - 8/14/14
	Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR
<b>NGC</b>	<b>6212</b>		<b>Galaxy S?</b>	<b>EF</b>
	Jul 16 2009	16"	17mmT4	PF,PS,OVAL,UB,NND,R=F
<b>NGC</b>	<b>6229</b>	<b>H50-4</b>	<b>Globular</b>	<b>GCL,VB,L,R,DISC,R</b>
	Jun 19 2020	12"	13mmHV	B,S,R=E
	Jun 17 2016	12"	8mm Ds	COULD NOT RESOLVE
	May 30 2016	12"	8mm Ds	B,S,R=G. NICE SPOT.
	Oct 24 2012	8"	11mmT6	PF,PS,R=F, THIS WAS THE FAINTEST OF THE FOUR FOR THE NIGHT.
	Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR
<b>NGC</b>	<b>6239</b>	<b>H727-3</b>	<b>Galaxy SB(s)b pec?</b>	<b>VF,E,BIN,NPSF</b>
	Jul 16 2009	16"	17mmT4	PF,PS,EON,UB,NND,R=F
	Mar 18 2007	8"	11mmT6	PF,L,OVAL,NND,AV,R=F
<b>NGC</b>	<b>6241</b>	<b>H735-3</b>	<b>Galaxy Sc</b>	<b>EF,PS</b>
	Jul 16 2009	16"	17mmT4	CF,PS,R,UB,NND,R=F
<b>NGC</b>	<b>6255</b>	<b>H689-3</b>	<b>Galaxy SBcd:</b>	<b>EF,CL,E90</b>
	Oct 17 2004	8"	7.5mmW	MB,EL,FNUC,R=G
<b>NGC</b>	<b>6269</b>		<b>Galaxy E</b>	<b>F,S,R</b>

## Hercules - The Son of Zeus

<b>NGC 6269</b>		<b>Galaxy E</b>	<b>F,S,R</b>
May 21 2009 16"	11mmT6	PF,PL,OVAL,UB,NND,R=F	
<b>NGC 6278</b>		<b>H124-3 Galaxy S0</b>	<b>VF,STELLAR</b>
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,FNUC,R=F	
<b>NGC 6341</b>	<b>M92</b>	<b>Globular</b>	<b>GCL,VB,VL,ECM,ST S</b>
Jun 19 2020 12"	13mmHV	B,S,R=E	
Sep 02 2019 12"	17mm O	STARTED THE NIGHT WITH THIS.	
Jun 03 2019 12"	8mm Et		
Apr 20 2018 12"	11mmT6		
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 6343</b>		<b>Galaxy C</b>	<b>VF,S,LE,NF OF 2</b>
May 21 2009 16"	11mmT6	PF,PS,R,UB,NND,R=F	
<b>NGC 6347</b>		<b>Galaxy SBb</b>	<b>EF,IR,DIF</b>
May 21 2009 16"	11mmT6	VF,VS,EL,OVAL,NND,AV,R=F	
<b>NGC 6350</b>		<b>Galaxy S0</b>	<b>PF,PS,GBM</b>
May 21 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F	
<b>NGC 6364</b>		<b>Galaxy S0</b>	<b>PF,VS,R,BM*13</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,R=F	
<b>NGC 6372</b>		<b>H137-3 Galaxy Sb? pec</b>	<b>VF,PS,IF,SF OF 2</b>
May 21 2009 16"	11mmT6	CF,PS,OVAL,NND,R=F	
<b>NGC 6389</b>		<b>H901-2 Galaxy Sbc</b>	<b>F,S,IF,ER</b>
May 21 2009 16"	11mmT6	CF,PS,OVAL,UB,NND,R=F	
<b>NGC 6408</b>		<b>Galaxy SB(rs)a</b>	<b>F,S,IR,GBM</b>
May 21 2009 16"	11mmT6	CF,PS,R,UB,NND,R=F	

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<b>NGC 6417</b>			<b>Galaxy SB(r)b:</b>	<b>PF,S,VLBM</b>
May 21 2009 16"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 6427</b>			<b>Galaxy S0-:</b>	<b>VF,VS,STELLAR</b>
May 21 2009 16"	11mmT6	CF,CS,EON,NND,R=F		
<b>NGC 6429</b>			<b>Galaxy SBa</b>	<b>F,S,STELLAR</b>
May 21 2009 16"	11mmT6	CF,PS,EON,NND,R=F		
<b>NGC 6442</b>			<b>Galaxy E</b>	<b>PF,S,IR,GBM</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,R=F		
<b>NGC 6447</b>			<b>Galaxy SB?</b>	<b>VF,S,R</b>
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F		
<b>NGC 6458</b>			<b>Galaxy S0</b>	<b>EF,VS,STELLAR</b>
May 21 2009 16"	11mmT6	VF,CS,EL,OVAL,NND,AV,R=F		
<b>NGC 6460</b>			<b>Galaxy Scd:</b>	<b>VF,PL,IR</b>
May 21 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 6468</b>			<b>Non-Existent</b>	<b>VF,S,R</b>
May 21 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 6482</b>			<b>Galaxy E:</b>	<b>VF,S,R,VSVMBMVS RN</b>
Jul 24 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 6484</b>			<b>Galaxy Sb:</b>	<b>EF,VS,R,MBM</b>
May 21 2009 16"	11mmT6	PF,PS,R,FNUC,R=F		
<b>NGC 6485</b>			<b>Galaxy Sbc</b>	<b>VF,VS,R</b>
May 21 2009 16"	11mmT6	CF,PS,R,UB,NND,R=F		
<b>NGC 6487</b>			<b>Galaxy E</b>	<b>F,S,R,GBM</b>
May 21 2009 16"	11mmT6	PF,PS,R,UB,,NND,R=F		
<b>NGC 6490</b>			<b>Galaxy S0-?</b>	<b>VF,VS,STELLAR</b>
May 21 2009 16"	11mmT6	VF,CS,OVAL,NND,AV,R=F		
<b>NGC 6495</b>			<b>Galaxy E</b>	<b>F,S,R</b>
May 21 2009 16"	11mmT6	PF,PS,R,FNUC,R=F		
<b>NGC 6500</b>		<b>H957-3</b>	<b>Galaxy SAab:</b>	<b>VF,VS,SP OF 2</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=F		
<b>NGC 6501</b>		<b>H958-3</b>	<b>Galaxy SA0+:</b>	<b>VF,VS,NF OF 2</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,MSB,R-F		

## Hercules - The Son of Zeus

<b>NGC 6504</b>		<b>Galaxy S</b>	<b>F,VME,SBM</b>
May 21 2009 16"	11mmT6	PF,PS,EON,FNUC,MSB,R=F	
<b>NGC 6548</b>		<b>H555-3</b>	<b>Galaxy SB0</b>
Nov 13 2007 8"	11mmT6	DIFF,PF,PS,R,NND,R=F	<b>CF,S,LE,R</b>
<b>NGC 6555</b>		<b>H902-2</b>	<b>Galaxy SAB(rs)c</b>
Mar 18 2007 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	<b>F,L,R,VGLBM</b>
<b>NGC 6574</b>		<b>Galaxy SAB(rs)bc:</b>	<b>PB,S,R</b>
May 21 2009 16"	11mmT6	PF,CS,OVAL,FNUC,UB,R=F	
<b>NGC 6628</b>		<b>Galaxy S0?</b>	<b>VF,S,LE,BM</b>
Aug 21 2015 12"	17mmT4		
<b>NGC 6635</b>		<b>Galaxy S0 pec:</b>	<b>VF,S,R</b>
Jun 04 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>PAL 14</b>		<b>Globular</b>	
May 21 2009 16"	11mmT6	CF,PS,R=F, UNRESOLVED,STAR IN FRONT.	
<b>PGC 56398</b>		<b>Galaxy S0</b>	
May 21 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F	
<b>PGC 56544</b>		<b>Galaxy S0-:</b>	
May 21 2009 16"	11mmT6	CF,PS,EL,OVAL,NND,R=F	
<b>PGC 56685</b>		<b>Galaxy SAB0-</b>	
Jul 16 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>PGC 58867</b>		<b>Galaxy Sc</b>	
Jul 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>PGC 58895</b>		<b>Galaxy</b>	
Jul 16 2009 16"	17mmT4	PB,CS,R,BNUC,R=G	
<b>PGC 59061</b>		<b>Galaxy Sa</b>	
Jul 16 2009 16"	17mmT4	CF,PS,R,UB,NND,R=F	
<b>PGC 59062</b>		<b>Galaxy S0 pec:</b>	
Jul 16 2009 16"	17mmT4	VF,CS,OVAL,NND,AV,R=F	
<b>PGC 59102</b>		<b>Galaxy Sb</b>	
Jul 16 2009 16"	17mmT4	CF,PS,R,NND,R=F	

# Horologium - The Clock

**IC 1924**

**Galaxy S**

Dec 07 2005 31" 19mmW MB,ML,OVAL,NND,MSB,R=G

## Hydra - The Water Snake

<b>NGC 2548</b>	<b>M48</b>	<b>H22-6</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,VL,PRI,PMC,*9..13</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 2610</b>		<b>H35-4</b>	<b>Planetary Neb 4+2</b>	<b>F,S,ATTTO*13,*7NF</b>
Mar 29 2006 8"	11mmT6	PF,PS,R=F		
<b>NGC 2765</b>		<b>H520-2</b>	<b>Galaxy S0</b>	<b>VF,PL,E,GBM,ER</b>
Mar 29 2006 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 2781</b>		<b>H66-1</b>	<b>Galaxy SAB(r)0+</b>	<b>B,S,VLE,PSMBM</b>
Mar 16 2010 12"	11mmT6	PB,PS,EON,BNUC,R=G		
<b>NGC 2784</b>		<b>H59-1</b>	<b>Galaxy SA(s)0^:</b>	<b>B,L,ME64,GMBM</b>
Mar 16 2010 12"	11mmT6	PB,PS,OVAL,UB,FNUC,R=F		
<b>NGC 2811</b>		<b>H505-2</b>	<b>Galaxy SB(rs)a</b>	<b>PB,PS,E,PSMBM</b>
Mar 29 2006 8"	11mmT6	PF,PS,EL,OVAL,NND,AV,R=F		
<b>NGC 2855</b>		<b>H132-1</b>	<b>Galaxy (R)SA(rs)0/a</b>	<b>PB,PL,R,GMBMN</b>
Mar 16 2010 12"	11mmT6	PB,PS,OVAL,UB,FNUC,R=F		
<b>NGC 2889</b>		<b>H555-2</b>	<b>Galaxy SAB(rs)c</b>	<b>PF,PS,VLE,VGLBM,R</b>
Mar 16 2010 12"	11mmT6	PF,CS,R,UB,NND,R=F		
<b>NGC 2962</b>			<b>Galaxy (R)SAB(rs)0+</b>	<b>F,VS,VLE,PSBM</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2983</b>		<b>H289-3</b>	<b>Galaxy SB(rs)0+</b>	<b>F,PS,R,BM,R,STELLAR</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
<b>NGC 2986</b>		<b>H311-2</b>	<b>Galaxy E2</b>	<b>PB,PS,IR,MBM</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
<b>NGC 2992</b>		<b>H277-3</b>	<b>Galaxy Sa pec</b>	<b>CF,S,R,BM,STEL,P OF2</b>
Apr 08 2005 8"	7.5mmW	VF,VS,EL,EON,NND,AV,R=F		
<b>NGC 2993</b>		<b>H278-3</b>	<b>Galaxy Sa pec</b>	<b>CF,S,R,BM,STEL,F OF2</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3052</b>		<b>H272-3</b>	<b>Galaxy SAB(r)c:</b>	<b>F,PL,R,GLBM,NF OF 2</b>

## Hydra - The Water Snake

<b>NGC 3052</b> Apr 08 2005 8"	7.5mmW	<b>H272-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SAB(r)c:</b>	<b>F,PL,R,GLBM,NF OF 2</b>
<b>NGC 3054</b> Apr 08 2005 8"	7.5mmW	DIFF,VF,ML,OVAL,NND,AV,R=F	<b>Galaxy SAB(r)b</b>	<b>PB,L,IRR OBLONG</b>
<b>NGC 3072</b> Apr 08 2005 8"	7.5mmW	<b>H273-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy S0/a? sp</b>	<b>VF,PS,LE,GLBM</b>
<b>NGC 3078</b> Apr 08 2005 8"	7.5mmW	<b>H268-2</b> MF,ML,OVAL,FNUC,R=G	<b>Galaxy E2-3</b>	<b>PB,S,R,MBM</b>
<b>NGC 3091</b> Apr 08 2005 8"	11mmT6	<b>H293-2</b> MF,MS,OVAL,NND,R=F	<b>Galaxy E3:</b>	<b>PB,PS,IR,BM,P OF 2</b>
<b>NGC 3109</b> Apr 08 2005 8"	11mmT6	DIFF,MF,VL,EON,NND,R=F	<b>Galaxy SB(s)m sp</b>	<b>CF,VL,VME82,LBM</b>
<b>NGC 3124</b> Apr 08 2005 8"	11mmT6	DIFF,VF,ML,OVAL,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>F,PL,R,LBM,D* S</b>
<b>NGC 3145</b> Mar 29 2006 8" Mar 15 2005 8"	11mmT6 11mmT6	<b>H518-3</b> B,L,EON,FNUC,R=F VB,ML,EL,EON,R=G	<b>Galaxy SB(rs)bc</b>	<b>F,PL,R,VGSLBM</b>
<b>NGC 3146</b> Apr 08 2005 8"	7.5mmW	<b>H293-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB(r)b?</b>	<b>EF,S,R,GBM</b>
<b>NGC 3200</b> Apr 08 2005 8"	7.5mmW	<b>H293-2</b> VF,VS,EON,NND,AV,R=F	<b>Galaxy SAB(rs)c:</b>	<b>PB,E160,BMN</b>
<b>NGC 3242</b> May 22 2015 12" Apr 08 2005 8"	8mm Ds 7.5mmW	<b>H27-4</b> NO FILTER CENTRAL STAR NOT VISIBLE VB,VL,R,R=G	<b>Planetary Neb 4+3b</b>	<b>PLN,VB,LE147,45"D</b>
<b>NGC 3585</b> Mar 29 2006 8"	11mmT6	<b>H269-2</b> B,L,OVAL,FNUC,R=F	<b>Galaxy E6</b>	<b>B,PL,E,VSMBMN,2B*TRI</b>
<b>NGC 3621</b> Mar 18 2007 8"	11mmT6	<b>H241-1</b> PF,PL,OVAL,NND,AV,R=F	<b>Galaxy SA(s)d</b>	<b>CB,VL,E160,AM4*</b>
<b>NGC 3923</b> Mar 01 2011 12"	11mmT6	<b>H259-1</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy E4-5</b>	<b>B,PL,LE,GMBM,R,VS*SP</b>
<b>NGC 4105</b> Mar 28 2011 12"	7mm TV	<b>H865-2</b> PF,PS,OVAL,MEXT,FNUC,R=F	<b>Galaxy E3</b>	<b>PF,PS,R,PSBM,R,P OF 2</b>



## Hydra - The Water Snake

**NGC 4106**                      **H866-2**                      **Galaxy SB(s)0+**                      **PF,PS,R,PGBM, F OF 2**  
 Mar 28 2011 12"    7mm TV    PF,CS,OVAL,UB,NND,R=F

**NGC 4590**                      **M68**                      **Globular**                      **GCL,L,ERI,VC,IR,ST12**  
 Jun 19 2020 12"    13mmHV    R=G  
 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

**NGC 5061**                      **H138-1**                      **Galaxy E0**                      **VB,S,R,VSMBM,\*10F**  
 Mar 01 2011 12"    11mmT6    PF,PS,R,BNUC,R=G

**NGC 5078**                      **H566-2**                      **Galaxy SA(s)a: sp**                      **PB,PS,CE,PSBM,\*7,8F**  
 Mar 01 2011 12"    11mmT6    CF,PS,OVAL,MEXT,UB,NND,R=F

**NGC 5236**                      **M83**                      **Galaxy SAB(s)c**                      **VB,VL,E55,ESBMN,SPIR**  
 Jun 19 2020 12"    13mmHV    B,L,R,FNUC,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"    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

**NGC 5694**                      **H196-2**                      **Globular**                      **CB,CS,R,PSBM,R,\*9SP**  
 Apr 13 2005 8"    7.5mmW    VS,VF,R,R=F

## Indus - The Indian

**NGC 7029**                      **Galaxy E6:**                      **B,CS,R,PGMBM**  
 Aug 07 2016 12"    8mm Et    PB,PS,R=E. LP3. NO CENTRAL STAR NOTED.

## Leo Minor - The Little Lion

<b>NGC 2859</b> Mar 13 2007 8"	11mmT6	<b>H137-1</b> PF,S,R,NND,R=F	<b>Galaxy (R)SB(r)0+</b>	<b>VB,PL,R,SMBM</b>
<b>NGC 2955</b> Mar 20 2007 8"	11mmT6	<b>H541-3</b> VF,VS,OVAL,NND,AV,SUSP,R=P	<b>Galaxy (R')SA(r)b</b>	<b>CF,PS,IR,GLBM,R</b>
<b>NGC 3003</b> Mar 20 2007 8"	11mmT6	<b>H26-5</b> VF,L,EON,NND,AV,R=F	<b>Galaxy Sbc?</b>	<b>CB,L,VME90</b>
<b>NGC 3021</b> Mar 20 2007 8"	11mmT6	<b>H115-1</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy SA(rs)bc:</b>	<b>PB,PS,VLE,MBM,*10SP</b>
<b>NGC 3158</b> Mar 20 2007 8"	11mmT6	<b>H639-2</b> VF,VS,R,NND,AV,R=F	<b>Galaxy E3:</b>	<b>CB,CS,R,PSBM,R</b>
<b>NGC 3245</b> May 25 2014 18" Mar 13 2007 8" Mar 23 2004 8"	8mm Ds 11mmT6 25mmPL	<b>H86-1</b> PF,PS,OVAL,MEXT,BNUC,R=G PF,PS,OVAL,NND,R=F COMPUTER = ARGO NAVIS	<b>Galaxy SA(r)0^:?</b>	<b>VB,PL,E0, SMBMEN</b>
<b>NGC 3245A</b> May 25 2014 18"	8mm Ds	<b>Galaxy SB(s)b sp</b> PF,VS,EON,UB,NND,R=F,PA=150		
<b>NGC 3254</b> Mar 20 2007 8"	11mmT6	<b>H72-1</b> F,L,EON,NND,R=F	<b>Galaxy SA(s)bc</b>	<b>CB,L,ME45,PSMBMN</b>
<b>NGC 3277</b> Mar 13 2007 8"	11mmT6	<b>H359-2</b> VF,VS,R,NND,R=F	<b>Galaxy SA(r)ab</b>	<b>CB,CS,R,PGMBM</b>
<b>NGC 3294</b> May 15 2017 12" Mar 13 2007 8"	7mm TV 11mmT6	<b>H164-1</b> PF,PS,OVAL,UB,NND,R=F VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)c</b>	<b>CB,L,ME135,GLBM</b>
<b>NGC 3344</b> May 15 2017 12" Mar 13 2007 8" Mar 23 2004 8"	7mm TV 11mmT6 25mmPL	<b>H81-1</b> F,PS,OVAL,UB,NND,R=G. 3 STARS SUPERIMPOSED ON GALAXY. PF,CL,OVAL,FNUC,R=F COMPUTER = ARGO NAVIS	<b>Galaxy (R)SAB(r)bc</b>	<b>CB,L,GBM,*INV,2ST F</b>
<b>NGC 3381</b> Mar 20 2007 8"	11mmT6	<b>H565-2</b> VF,PS,R,NND,AV,R=F	<b>Galaxy SB pec</b>	<b>PF,CL,IR,VGLBM,1ST-3</b>
<b>NGC 3395</b> May 15 2017 12" Mar 29 2006 8" Mar 04 2006 8"	7mm TV 11mmT6 11mmT6	<b>H116-1</b> VF,PS,OVAL,MEXT,UB,NND,R=G. PAIRED W/NGC3396 PF,PS,EL,OVAL,NND,R=F VF,VS,R,NND,R=F	<b>Galaxy SAB(rs)cd pec:</b>	<b>CB,PS,ILE,1ST OF 2</b>
<b>NGC 3396</b>		<b>H117-1</b>	<b>Galaxy IBm pec</b>	<b>PB,PS,ILE,2ND OF 2</b>

## Leo Minor - The Little Lion

<b>NGC 3396</b>		<b>H117-1</b>	<b>Galaxy IBm pec</b>	<b>PB,PS,ILE,2ND OF 2</b>
May 15 2017 12"	7mm TV	VF, PS,OVAL,MEXTG,UB,NND,R=F.	PAIRED W/NGC3395	
Mar 29 2006 8"	11mmT6	PF,VS,R,NND,R=F		
Mar 04 2006 8"	11mmT6	VF,PS,OVAL,NND,R=F		
<b>NGC 3413</b>		<b>H493-2</b>	<b>Galaxy S0 sp</b>	<b>F,S</b>
May 15 2017 12"	7mm TV	VF,VS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3414</b>		<b>H362-2</b>	<b>Galaxy S0 pec</b>	<b>B,PL,R,MBM</b>
May 15 2017 12"	7mm TV	PF,PS,OVAL,MEXT,FNUC,R=G		
Mar 04 2006 8"	11mmT6	MB,FS,OVAL,FNUC,R=G		
<b>NGC 3418</b>		<b>H363-2</b>	<b>Galaxy SAB(s)0/a:</b>	<b>CF,S,R,BM</b>
May 15 2017 12"	7mm TV	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 3424</b>		<b>H494-2</b>	<b>Galaxy SB(s)b:?</b>	<b>PF,PL,LE,SP OF 3</b>
May 15 2017 12"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=G		
Mar 30 2014 18"	7mm TV	DIFF,PF,PS,R,UB,NND,R=F		
Mar 28 2011 12"	7mm TV	PF,CS,EON,UB,NND,R=F,PA=120		
<b>NGC 3430</b>		<b>H118-1</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,L,IE,GBM,2ND OF 3</b>
May 15 2017 12"	7mm TV	PF,PS,OVALMUB,NND,R=F		
Mar 28 2011 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Mar 29 2006 8"	11mmT6	PF,S,OVAL,NND,R=F		
<b>NGC 3432</b>		<b>H172-1</b>	<b>Galaxy SB(s)m sp</b>	<b>PB,PL,VME40,**NR SP</b>
May 15 2017 12"	7mm TV	PF,PS,EON,UB,NND,R=G		
Mar 29 2006 8"	11mmT6	F,L,EON,NND,R=F		
<b>NGC 3486</b>		<b>H87-1</b>	<b>Galaxy SAB(r)c</b>	<b>CB,CL,R,GMBM</b>
May 15 2017 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Mar 13 2007 8"	11mmT6	VF,CL,R,NND,AV,R=F		
Mar 23 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3504</b>		<b>H88-1</b>	<b>Galaxy (R)SAB(s)ab</b>	<b>B,L,E,MBMN,RR,P OF 2</b>
Mar 29 2006 8"	11mmT6	F,S,R,UB,R=F		
<b>NGC 3510</b>		<b>H365-2</b>	<b>Galaxy SB(s)m sp</b>	<b>F,L,CE,*7NF8'</b>
Mar 20 2007 8"	11mmT6	PF,L,EON,NND,AV,R=F		
<b>NGC 3512</b>		<b>H366-2</b>	<b>Galaxy SAB(rs)c</b>	<b>F,PS,R,PGBM,F OF 2</b>
Mar 20 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>PAL 15</b>			<b>Globular</b>	
May 21 2009 16"	11mmT6	VF,PS,AV,R=F	UNRESOLVED.	

## Lacerta - The Lizard

<b>IC 1434</b>		<b>Open Cluster 12.0 III 2 m</b>	
Nov 16 2012 18"	11mmT6	LOOSE GROUP,15-20 STARS,R=F	
<b>IC 1442</b>		<b>Open Cluster 12.0 III 1 p</b>	
Nov 16 2012 18"	11mmT6	TIGHT GROUP, STARS=20+,R=F	
<b>IC 5180</b>		<b>Galaxy E:</b>	
Sep 14 2012 18"	7mm TV	VF,PS,UB,NND,AV1,R=F	
<b>IC 5217</b>		<b>Planetary Neb 2</b>	
Nov 16 2012 18"	11mmT6	VS,VF,R=F	
<b>MAC 2221+3632</b>		<b>Galaxy</b>	
Sep 11 2007 31"	17mmT4	VF,ES,R,NND,AV,R=F	
<b>MAC 2221+3635</b>		<b>Galaxy</b>	
Sep 11 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>MAC 2223+3611</b>		<b>Galaxy</b>	
Sep 11 2007 31"	17mmT4	VF,ES,R,NND,V,R=F	
<b>NGC 7197</b>		<b>H599-2 Galaxy Sa</b>	<b>F,CS,CE,VGLBM,ER</b>
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 7209</b>		<b>H53-7 Open Cluster 9.0 III 1 m</b>	<b>CL,L,CRI,PC,ST9...12</b>
Jul 21 2007 1.9"	12x50	PB,PL,R=G	
Nov 09 2006 8"	19mmW	LARGE AND LOOSE,R=F	
Jul 24 2006 8"	11mmT6	PB,PS,R=G	
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 7223</b>		<b>H862-3 Galaxy SB(rs)bc</b>	<b>EF,PS,LE,R,AM3ST</b>
Aug 24 2012 18"	5mm TV	DIFF,VF,PS,OVAL,UB,AV2,R=F	
<b>NGC 7227</b>		<b>Galaxy S0</b>	<b>VF,VS,R,LBM,NP OF 2</b>
Sep 14 2012 18"	7mm TV	VF,VS,OVAL,PEXT,UB,NND,R=F	
<b>NGC 7231</b>		<b>H606-2 Galaxy SBa</b>	<b>EF,S,ER</b>
Aug 24 2012 18"	5mm TV	PF,VS,EON,UB,NND,R=F	
<b>NGC 7242</b>		<b>Galaxy E+:</b>	<b>VF,S,LBM,F OF 2</b>
Aug 23 2004 8"	11mmT6	VS,VF	
<b>NGC 7243</b>		<b>H75-8 Open Cluster 8.0 II 2 m</b>	<b>CL,L,P,LC,ST VL</b>
Jul 21 2007 1.9"	12x50	PB,PL,R=G	
Nov 09 2006 8"	19mmW	TIGHTER,HINT OF NEB.,R=F	
Jul 24 2006 8"	11mmT6	PB,PL,R=G	

## Lacerta - The Lizard

<b>NGC 7243</b> Jul 21 2004 8"	25mmPL	<b>H75-8</b> SHORT NIGHT - CLOUDS ROLLED IN.	<b>Open Cluster 8.0 II 2 m</b>	<b>CL,L,P,LC,ST VL</b>
<b>NGC 7245</b> Nov 13 2007 8"	11mmT6	<b>H29-6</b> PF,VVS,R=P	<b>Open Cluster 12.8 II 2 m</b>	<b>CL,C,ST ES</b>
<b>NGC 7248</b> Aug 24 2012 18"	5mm TV	<b>H863-3</b> PF,VS,OVAL,FNUC,R=F,	<b>Galaxy SA0-</b>	<b>VF,VS,MBM</b>
<b>NGC 7250</b> Aug 24 2012 18"	5mm TV	<b>H864-3</b> VF,VS,OVAL,MEXT,UB,NND,AV2,R=F, STAR AT NE TIP	<b>Galaxy Sdm?</b>	<b>VF,S,ME165</b>
<b>NGC 7265</b> Sep 14 2012 18"	7mm TV	<b>H864-3</b> PF,PS,OVAL,FNUC,R=F	<b>Galaxy S0-</b>	<b>F,VS,R,MBM</b>
<b>NGC 7296</b> Jul 24 2006 8"	11mmT6	<b>H41-7</b> PF,CS,R=F	<b>Open Cluster 10.0 II 2 p</b>	<b>CL,IR,LC,ST VS</b>
<b>NGC 7330</b> Sep 14 2012 18"	7mm TV	<b>H864-3</b> PF,PS,R,UB,NND,R=F	<b>Galaxy E</b>	<b>PB,S,LE,BM</b>
<b>NGC 7426</b> Aug 24 2012 18"	5mm TV	<b>H576-3</b> VF,PS,R,UB,NND,AV3,R=P	<b>Galaxy E</b>	<b>VF,CS,R,STELLAR,D*P</b>
<b>PGC 68079</b> Aug 24 2012 18"	5mm TV	<b>H864-3</b> VF,VS,OVAL,UB,NND,AV,R=F	<b>Galaxy SBd:</b>	
<b>PGC 68110</b> Aug 24 2012 18"	5mm TV	<b>H864-3</b> VF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SABbc</b>	
<b>PGC 68171</b> Aug 24 2012 18"	5mm TV	<b>H864-3</b> VF,VS,R,UB,NND,R=F	<b>Galaxy Sb</b>	
<b>PGC 68482</b> Aug 24 2012 18" Sep 11 2007 31"	5mm TV 17mmT4	<b>H864-3</b> PF,PS,EON,NND,AV1,R=P,12 MAG STAR EAST EDGE B,FL,EON,UB,NND,MSB,R=G	<b>Galaxy SAB(s)bc</b>	
<b>PGC 68623</b> Sep 11 2007 31"	17mmT4	<b>H864-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy Sa</b>	
<b>PGC 68675</b> Sep 11 2007 31"	17mmT4	<b>H864-3</b> VF,PS,OVAL,NND,AV,R=F	<b>Galaxy S?</b>	
<b>PGC 68706</b> Sep 11 2007 31"	17mmT4	<b>H864-3</b> VF,PS,NND,R=F	<b>Galaxy</b>	
<b>PGC 68713</b>			<b>Galaxy Sb</b>	

## Lacerta - The Lizard

**PGC 68713**

Sep 11 2007 31" 17mmT4 PF,PS,OVAL,UB,NND,R=F

**Galaxy Sb**

**PGC 68715**

Sep 11 2007 31" 17mmT4 PF,PS,EON,UB,R=F

**Galaxy S**

## Leo - The Lion

<b>IC 601</b>			<b>Galaxy S?</b>
Apr 19 2006	31"	19mmW	PF,PS,EON,NND,R=F
<b>IC 602</b>			<b>Galaxy S:</b>
Apr 19 2006	31"	19mmW	VB,PL,OVAL,BNUC,HISB,R=G
<b>IC 606</b>			<b>Non-Existent</b>
Apr 19 2006	31"	19mmW	PB,PL,OVAL,BNUC,MSB,R=G
<b>IC 607</b>			<b>Galaxy SB(rs)bc</b>
Apr 19 2006	31"	19mmW	DIFF,PF,PL,OVAL,NND,R=F
<b>IC 610</b>			<b>Galaxy Sbc</b>
Apr 19 2006	31"	19mmW	PB,VL,EON,UB,HISB,R=G
<b>IC 612</b>			<b>Galaxy S</b>
Apr 19 2006	31"	19mmW	B,PS,OVAL,UB,R=F
<b>IC 613</b>			<b>Galaxy E</b>
Apr 19 2006	31"	19mmW	PB,PL,R,FNUC,R=G
<b>IC 615</b>			<b>Galaxy S</b>
Apr 19 2006	31"	19mmW	PB,VL,EON,FNUC,MSB,R=G
<b>IC 616</b>			<b>Galaxy Scd:</b>
Apr 19 2006	31"	19mmW	PF,PL,R,NND,R=F
<b>IC 620</b>			<b>Galaxy</b>
Apr 19 2006	31"	19mmW	F,PS,OVAL,UB,NND,R=F
<b>IC 635</b>			<b>Galaxy S?</b>
Apr 19 2006	31"	19mmW	F,PL,EON,UB,NND,R=F
<b>IC 637</b>			<b>Galaxy</b>
Apr 19 2006	31"	19mmW	F,PS,R,NND,R=F
<b>IC 638</b>			<b>Galaxy SAB(s)bc</b>
Apr 19 2006	31"	19mmW	PF,PS,OVAL,NND,R=F
<b>IC 639</b>			<b>Galaxy Sb</b>
Apr 19 2006	31"	19mmW	PF,PS,CE,UB,NND,R=F
<b>IC 642</b>			<b>Galaxy E?</b>
Apr 19 2006	31"	19mmW	PB,PL,R,FNUC,MSB,R=G
<b>IC 643</b>			<b>Galaxy</b>
Apr 19 2006	31"	19mmW	B,PL,CE,FNUC,MSB,R=G

## Leo - The Lion

<b>IC</b>	<b>648</b>			<b>Galaxy Sc</b>
	Apr 19 2006	31"	19mmW F,PL,OVAL,NND,R=F	
<b>IC</b>	<b>663</b>			<b>Galaxy</b>
	Apr 19 2007	31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>664</b>			<b>Galaxy S0?</b>
	Apr 19 2007	31"	17mmT4 FB,L,OVAL,UB,NND,R=F	
<b>IC</b>	<b>666</b>			<b>Galaxy</b>
	Apr 19 2007	31"	17mmT4 B,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>676</b>			<b>Galaxy (R)SB(r)0+</b>
	Mar 08 2013	18"	7mm TV PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>677</b>			<b>Galaxy Sbc</b>
	Mar 08 2013	18"	7mm TV PF,PS,OVAL,PEXT,UB,NND,R=F	
<b>IC</b>	<b>683</b>			<b>Galaxy D</b>
	Apr 15 2007	31"	17mmT4 PF,PS,R,UB,NND,R=F	
<b>IC</b>	<b>700</b>			<b>Galaxy S0?</b>
	Apr 26 2008	31"	17mmT4 VF,VS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>732</b>			<b>Galaxy S0?</b>
	May 07 2007	31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>2551</b>			<b>Galaxy S?</b>
	Apr 19 2006	31"	19mmW B,S,OVAL,FNUC,MSB,R=G	
<b>IC</b>	<b>2562</b>			<b>Galaxy S</b>
	Apr 19 2006	31"	19mmW B,S,OVAL,NND,R=F	
<b>IC</b>	<b>2567</b>			<b>Galaxy LB</b>
	Apr 19 2006	31"	19mmW PF,CS,OVAL,NND,R=F	
<b>IC</b>	<b>2579</b>			<b>Non-Existent</b>
	Apr 19 2006	31"	19mmW PB,PL,EON,BNUC,MSB,R=G	
<b>IC</b>	<b>2583</b>			<b>Galaxy</b>
	Apr 19 2006	31"	19mmW PB,PS,OVAL,BNUC,MSB,R=G	
<b>IC</b>	<b>2590</b>			<b>Galaxy S0</b>
	Apr 19 2006	31"	19mmW PB,PL,R,BNUC,MSB,R=G	
<b>IC</b>	<b>2626</b>			<b>Galaxy</b>
	Apr 19 2007	31"	17mmT4 F,PS,EON,NND,R=F	



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<b>IC 2626</b>			<b>Galaxy</b>
Apr 19 2006	31"	19mmW	PF,PS,EON,NND,R=F
<b>IC 2759</b>			<b>Galaxy S?</b>
Apr 26 2008	31"	17mmT4	PB,S,OVAL,UB,NND,R=F
<b>IC 2914</b>			<b>Galaxy S</b>
May 14 2010	31"	17mmT4	CF,CS,OVAL,MEXT,NND,R=F
<b>IC 2955</b>			<b>Galaxy</b>
May 07 2007	31"	17mmT4	PB,PS,OVAL,UB,NND,R=G
<b>IC 2982</b>			<b>Galaxy L</b>
Apr 28 2006	31"	19mmW	PF,PS,OVAL,NND,R=F
<b>MAC 1012+1243</b>			<b>Galaxy</b>
Apr 15 2007	31"	17mmT4	PF,PS,R,NND,R=F
<b>MAC 1013+1702</b>			<b>Galaxy</b>
Apr 15 2007	31"	17mmT4	F,PS,EON,NND,R=F
<b>MAC 1018+0708</b>			<b>Galaxy</b>
Apr 19 2006	31"	19mmW	VF,VS,R,NND,AV,R=F
<b>MAC 1018+2742</b>			<b>Galaxy</b>
Apr 21 2007	31"	17mmT4	CF,CS,R,NND,AV,R=F
<b>MAC 1021+1927</b>			<b>Galaxy</b>
Apr 21 2007	31"	17mmT4	F,S,OVAL,NND,AV,R=F
<b>MAC 1022+1947</b>			<b>Galaxy</b>
Apr 21 2007	31"	17mmT4	F,CS,OVAL,NND,AV,R=F
<b>MAC 1023+1056</b>			<b>Galaxy</b>
Apr 19 2006	31"	19mmW	VF,VS,R,NND,AV,R=F
<b>MAC 1023+2001</b>			<b>Galaxy</b>
Apr 21 2007	31"	17mmT4	VF,CS,OVAL,NND,AV,R=F
<b>MAC 1044+1403</b>			<b>Galaxy</b>
Apr 07 2008	31"	17mmT4	VF,VS,EON,NND,AV,R=F
<b>MAC 1044+1406</b>			<b>Galaxy</b>
Apr 07 2008	31"	17mmT4	PF,VS,OVAL,NND,R=F
<b>MAC 1047+1238</b>			<b>Galaxy</b>
Apr 13 2005	31"	17mmT4	MF,MS,EL,OVAL,ND,R=F

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**MAC 1047+1246 Galaxy**

Apr 13 2005 31" 17mmT4 MF,MS,OVAL,NND,R=F

**MAC 1049+1616 Galaxy**

Apr 07 2008 31" 17mmT4 PF,PS,OVAL,NND,LSB,R=F

**MAC 1049+1617 Galaxy**

Apr 07 2008 31" 17mmT4 VF,VS,R,NND,AV,R=F

**MAC 1104+0501 Galaxy**

Apr 19 2007 31" 17mmT4 VF,VS,R,NND,AV,R=F

**MAC 1109+2157 Galaxy**

Apr 19 2007 31" 17mmT4 PF,VS,OVAL,UB,NND,R=F

**MAC 1109+2158 Galaxy**

Apr 19 2007 31" 17mmT4 PF,VS,EON,UB,NND,R=F

**MAC 1110+2158 Galaxy**

Apr 19 2007 31" 17mmT4 PF,CS,OVAL,UB,NND,R=F

**MAC 1110+2206 Galaxy**

Apr 19 2007 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 1110+2208 Galaxy**

Apr 19 2007 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 1110+2213 Galaxy**

Apr 19 2007 31" 17mmT4 VF,VS,OVAL,NND,AV,R=F

**MAC 1118+0937 Galaxy**

Apr 15 2007 31" 17mmT4 VF,VS,OVAL,NND,AV,R=F

**MAC 1120+0255A Galaxy**

Apr 15 2007 31" 17mmT4 VF,VS,R,NND,R=F

**MAC 1120-0558 Galaxy**

Apr 15 2007 31" 17mmT4 VF,VS,EON,NND,AV,R=F

**MAC 1120+1340 Galaxy**

Feb 23 2006 31" 17mmT4 FB,FL,OVAL,NND,R=G

**MAC 1145+1952 Galaxy**

May 07 2007 31" 17mmT4 VF,PS,R,NND,AV,R=F

**MAC 1145+2001 Galaxy**

May 07 2007 31" 17mmT4 VF,VS,R,NND,AV,R=F

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<b>MAC 1145+2026</b>			<b>Galaxy</b>	
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>MAC 1146+1944B</b>			<b>Galaxy</b>	
May 07 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F		
<b>MAC 1146+2026</b>			<b>Galaxy</b>	
May 07 2007 31"	17mmT4	PF,PS,EON,NND,V,R=F		
<b>MAC 1150+2111</b>			<b>Galaxy</b>	
May 07 2007 31"	17mmT4	CF,PS,EON,UB,NND,R=F		
<b>MAC 1150+2116</b>			<b>Galaxy</b>	
May 07 2007 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F		
<b>MAC 1150+2119</b>			<b>Galaxy</b>	
May 07 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>NGC 2862</b>			<b>Galaxy S?</b>	<b>F,S,E,BM</b>
Apr 09 2010 12"	11mmT6	CF,PS,EON,UB,NND,R=F		
<b>NGC 2872</b>		<b>H57-2</b>	<b>Galaxy E2</b>	<b>PF,PS,R,BM</b>
Mar 08 2010 12"	7.5mmW	CF,CS,R,NND,R=F		
May 13 2007 8"	7.5mmW	VF,VS,R,NND,AV,R=F		
<b>NGC 2874</b>			<b>Non-Existent</b>	<b>VF,PL,ME</b>
Mar 08 2010 12"	7.5mmW	CF,CS,MEXT,NND,F=F		
<b>NGC 2882</b>			<b>Galaxy S?</b>	<b>F,PL,E</b>
Apr 09 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 2894</b>		<b>H8-3</b>	<b>Galaxy Sa</b>	<b>VF,E,ER,2OR3* INV</b>
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 2903</b>		<b>H56-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>CB,VL,E,GMBM,R,SPOF2</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
Apr 20 2018 12"	11mmT6			
Feb 17 2012 18"	11mmT6	OBSERVED WITH 18" ASTROSYSTEMS		
Apr 26 2006 8"	19mmW	PB,PL,EL,EON,BNUC,HISB,R=G		
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER		
<b>NGC 2905</b>		<b>H57-1</b>	<b>Knot in Galaxy</b>	<b>VF,CL,R,PSBM,R,NFOF2</b>
Mar 20 2007 8"	11mmT6	PB,L,OVAL,FNUC,USB,R=G		
Mar 29 2006 8"	11mmT6	PB,PL,EON,BNUC,R=G		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		

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<b>NGC 2905</b> Mar 13 2004 8"	25mmPL	<b>H57-1</b> COMPUTER = ARGO NAVIS	<b>Knot in Galaxy</b>	<b>VF,CL,R,PSBM,R,NFOF2</b>
<b>NGC 2906</b> Mar 16 2010 12"	11mmT6	<b>H495-2</b> CF,CS,OVAL,MEXT,UB,NND,R=G	<b>Galaxy Scd:</b>	<b>F,PS,LE,GBM</b>
<b>NGC 2911</b> Mar 16 2010 12"	11mmT6	<b>H40-2</b> CF,CS,OVAL,UB,NND,R=F	<b>Galaxy SA(s)0: pec</b>	<b>F,PL,R,GBM,P OF 2</b>
<b>NGC 2913</b> Mar 30 2014 18"	7mm TV	VF,VS,OVAL,MEXT,NND,R=F	<b>Galaxy S?</b>	<b>VF,PL,IR</b>
<b>NGC 2916</b> Apr 02 2008 8" Feb 10 2005 8"	11mmT6 11mmT6	<b>H260-2</b> PF,PS,OVAL,NND,AV,R=F VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(rs)b?</b>	<b>F,S,VLE</b>
<b>NGC 2918</b> Apr 09 2010 12"	11mmT6	<b>H298-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>VF,CS,R,SBMN</b>
<b>NGC 2919</b> Apr 09 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=P	<b>Galaxy SAB(r)b:</b>	<b>F,PS</b>
<b>NGC 2927</b> Mar 06 2005 8"	11mmT6	VF,VS, OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)b</b>	<b>F,PL,R,LBM</b>
<b>NGC 2939</b> Mar 16 2010 12"	11mmT6	<b>H4-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy Sbc</b>	<b>VF,S,VLE,BM,TRI STNF</b>
<b>NGC 2943</b> Apr 09 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>F,S,IR,BM,F OF2</b>
<b>NGC 2964</b> Feb 10 2005 8"	11mmT6	<b>H114-1</b> MB,ML,EL,OVAL,PATCHY,NND,MSB,R=G	<b>Galaxy SAB(r)bc:</b>	<b>B,VL,LE,VGBM,SP OF 3</b>
<b>NGC 2968</b> Feb 10 2005 8"	11mmT6	<b>H491-2</b> DIFF,MF,MS,OVAL,NND,AV,R=F	<b>Galaxy I0</b>	<b>PB,PL,LE,VGLBM,2ND-3</b>
<b>NGC 2970</b> Apr 13 2005 31"	17mmT4	MB,OVAL,NND,R=F	<b>Galaxy E1:</b>	<b>F,NF OF 3</b>
<b>NGC 2981</b> Apr 13 2005 31"	17mmT4	VF,MS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)bc:</b>	<b>VF</b>
<b>NGC 2988</b> Apr 28 2006 31"	19mmW	CF,CS,R,FNUC,R=F	<b>Galaxy SBbc</b>	<b>EF,P 2991</b>
<b>NGC 3020</b>		<b>H51-3</b>	<b>Galaxy SB(r)cd:</b>	<b>EF,PS,LE0,R</b>

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<b>NGC 3020</b>		<b>H51-3</b>	<b>Galaxy SB(r)cd:</b>	<b>EF,PS,LE0,R</b>
Apr 29 2011	12"	5mm TV	CF,PS,OVAL,MEXT,R=F,PA=50	
<b>NGC 3032</b>			<b>Galaxy SAB(r)0^</b>	<b>F,S,SBM*12,BET2B*</b>
Feb 10 2005	8"	11mmT6	VF,VS,EL,NND,AV,R=F	
<b>NGC 3041</b>		<b>H98-2</b>	<b>Galaxy SAB(rs)c</b>	<b>GCL,F,L,R,VGLBM,RR</b>
Apr 05 2005	8"	11mmT6	MF,MS,OVAL,NND,AV,R=F	
<b>NGC 3049</b>			<b>Galaxy SB(rs)ab</b>	<b>VF,VS,F*V NR</b>
Apr 17 2015	18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F	
<b>NGC 3053</b>		<b>H600-3</b>	<b>Galaxy SBa?</b>	<b>VF,S,VLE,GBM</b>
Mar 16 2010	12"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 3067</b>		<b>H492-2</b>	<b>Galaxy SAB(s)ab?</b>	<b>PB,PL,E106,GBM,*94'P</b>
Apr 05 2005	8"	11mmT6	MF,MS,EL,OVAL,NND,R=F	
<b>NGC 3070</b>		<b>H59-2</b>	<b>Galaxy E</b>	<b>PB,PS,R,GMBMN,AM3ST</b>
Mar 29 2006	8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
<b>NGC 3094</b>			<b>Galaxy SB(s)a</b>	<b>F,BM,*9 30"SF</b>
Apr 07 2008	31"	17mmT4	B,S,OVAL,UB,HSB,R=G	
<b>NGC 3098</b>			<b>Galaxy S0 sp</b>	<b>PB,S,E85,PSBMN</b>
Apr 05 2005	8"	11mmT6	VF,MS,EL,EON,NND,R=F	
<b>NGC 3107</b>		<b>H898-2</b>	<b>Galaxy Sbc:</b>	<b>PF,PL,IR,*8NP 112"</b>
Apr 07 2008	31"	17mmT4	F,S,OVAL,UB,NND,R=F	
<b>NGC 3119</b>			<b>Non-Existent</b>	<b>VF</b>
Apr 07 2008	31"	17mmT4	F,PS,OVAL,UB,NND,R=F	
<b>NGC 3130</b>			<b>Galaxy S0/a</b>	<b>EF,S,PSBM,*5SF</b>
Apr 15 2007	31"	17mmT4	PB,L,OVAL,FNUC,R=G	
<b>NGC 3131</b>			<b>Galaxy SBb:</b>	<b>PB,PS,PME,GBM</b>
Apr 15 2007	31"	17mmT4	PB,PL,EON,FNUC,R=G	
<b>NGC 3153</b>		<b>H53-3</b>	<b>Galaxy Scd:</b>	<b>EF,PL,VLE,R,ST INV</b>
Apr 15 2007	31"	17mmT4	PB,VL,OVAL,NND,R=G	
<b>NGC 3154</b>			<b>Galaxy Sb</b>	<b>F,S,R,LBM</b>
Apr 15 2007	31"	17mmT4	PB,L,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 3162</b>		<b>H43-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>PF,CL,R,VGLBM,R,*INV</b>
Apr 05 2005	8"	11mmT6	DIFF,VF,ML,OVAL,NND,AV,R=F	

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<b>NGC 3177</b>		<b>H25-3</b>	<b>Galaxy SA(rs)b</b>	<b>CF,S,R,PSBM</b>
Apr 15 2007	31"	17mmT4	VB,PL,OVAL,BNUC,HISB,R=G	
Mar 20 2007	8"	11mmT6	PF,VS,R,NND,AV,R=F	
<b>NGC 3185</b>			<b>Galaxy (R)SB(r)a</b>	<b>PF,PL,GMBM</b>
Apr 15 2007	31"	17mmT4	PB,L,OVAL,FNUC,MSB,R=G	
Apr 05 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 3186</b>			<b>Galaxy S</b>	<b>PF,VS,GBM,SEVF*NR</b>
Apr 15 2007	31"	17mmT4	VF,L,R,NND,AV,R=F	
<b>NGC 3187</b>			<b>Galaxy SB(s)c pec</b>	<b>VF,E</b>
Apr 15 2007	31"	17mmT4	PB,L,EL,OVAL,NND,R=G	
<b>NGC 3189</b>			<b>Knot in Galaxy</b>	<b>VVF,ME,PARALLEL-3190</b>
Apr 05 2005	8"	11mmT6	VF,EON,BOTTOM OF NGC 3190	
<b>NGC 3190</b>		<b>H44-2</b>	<b>Galaxy SA(s)a pec sp</b>	<b>B,PS,E,PSBMN</b>
Apr 15 2007	31"	17mmT4	VB,PL,EON,BNUC,HISB,R=G	
Apr 26 2006	8"	11mmT6	F,PS,EL,OVAL,NND,R=F	
Apr 05 2005	8"	11mmT6	MF,ML,EL,EON,FNUC,R=G	
<b>NGC 3193</b>		<b>H45-2</b>	<b>Galaxy E2</b>	<b>B,S,VLE,PSLBM,*9NF</b>
Apr 15 2007	31"	17mmT4	VB,L,R,BNUC,HISB,R=G	
Apr 26 2006	8"	11mmT6	PF,PS,R,NND,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
<b>NGC 3196</b>		<b>H348-3</b>	<b>Galaxy</b>	<b>EEF,PS,LE</b>
Apr 21 2007	31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>NGC 3204</b>			<b>Galaxy SAB(r)b</b>	<b>EF,PL,GBM</b>
Apr 21 2007	31"	17mmT4	F,PS,OVAL,NND,R=F	
<b>NGC 3209</b>			<b>Galaxy E</b>	<b>F,S,R,HAS A *</b>
Apr 21 2007	31"	17mmT4	PB,PLMOVAL,BNUC,R=G	
<b>NGC 3213</b>			<b>Galaxy Sbc:</b>	<b>VF,VS,R,R</b>
Apr 21 2007	31"	17mmT4	DIFF,CF,PL,OVAL,UB,NND,R=F	
<b>NGC 3216</b>		<b>H330-3</b>	<b>Galaxy E:</b>	<b>VF,PS,R,BM</b>
Apr 21 2007	31"	17mmT4	PF,PS,OVAL,FNUC,R=F	
<b>NGC 3221</b>			<b>Galaxy SB(s)cd: sp</b>	<b>EF,ME,RAY</b>
Apr 21 2007	31"	17mmT4	DIFF,PF,PL,EON,NND,R=F	
<b>NGC 3222</b>			<b>Galaxy SB0:</b>	<b>F,LBM,RR,(BIN)</b>
Apr 21 2007	31"	17mmT4	PB,PL,OVAL,FNUC,R=F	

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<b>NGC 3222</b>		<b>Galaxy SB0:</b>	<b>F,LBM,RR,(BIN)</b>
Mar 20 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 3226</b>		<b>H28-2</b>	<b>Galaxy E2: pec</b>
Apr 26 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F	<b>PB,CL,R,DW/3227</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 3227</b>		<b>H29-2</b>	<b>Galaxy SAB(s)a pec</b>
Apr 26 2006 8"	11mmT6	F,S,EL,R,NND,R=F	<b>PB,CL,R,DW/3226</b>
Mar 23 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 3230</b>		<b>Galaxy S0</b>	<b>PF,PS,SBM*14,*9S19"</b>
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 3239</b>		<b>H10-4</b>	<b>Galaxy IB(s)m pec</b>
Apr 21 2007 31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F	<b>VF,*9INV NR M</b>
<b>NGC 3248</b>		<b>H347-2</b>	<b>Galaxy S0</b>
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>PB,S,R,PSBM</b>
<b>NGC 3253</b>		<b>Galaxy SAB(rs)bc</b>	<b>VF,PS,R</b>
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F	
<b>NGC 3270</b>		<b>H331-3</b>	<b>Galaxy SAB(r)b:</b>
Apr 21 2007 31"	17mmT4	PB,PL,EON,FNUC,R=G	<b>CF,VS,E,GLBM</b>
<b>NGC 3274</b>		<b>H358-2</b>	<b>Galaxy SABd?</b>
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	<b>F,PL,R,GLBM,D* F</b>
<b>NGC 3279</b>		<b>Galaxy Sd</b>	<b>F,ME</b>
Apr 19 2006 31"	19mmW	B,PL,MEON,UB,NND,R=G	
<b>NGC 3287</b>		<b>Galaxy SB(s)d</b>	<b>F,PL,D*P24S,S4'</b>
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,EL,OVAL,NND,R=F	
<b>NGC 3299</b>		<b>H54-3</b>	<b>Galaxy SAB(s)dm</b>
Apr 21 2007 31"	17mmT4	DIFF,CF,PL,OVAL,NND,AV,R=F	<b>EF,CL,R,VGBM,R</b>
<b>NGC 3300</b>		<b>H55-3</b>	<b>Galaxy SAB(r)0^:?</b>
Apr 21 2007 31"	17mmT4	CB,PL,OVAL,FNUC,MSB,R=G	<b>CF,CS,R,PMBM,R,AMBST</b>
<b>NGC 3301</b>		<b>H46-2</b>	<b>Galaxy SB0-a</b>
Mar 06 2005 8"	11mmT6	MB,MS,EL,FNUC,MSB,R=G	<b>CB,S,LE53,PSBM,R</b>
<b>NGC 3303</b>		<b>H66-3</b>	<b>Galaxy Pec</b>
Apr 21 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	<b>VF,VS,VLE,GLBM,R</b>

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<b>NGC 3306</b>		<b>Galaxy SB(s)m?</b>	<b>F,S,R</b>
Apr 21 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F	
<b>NGC 3332</b>		<b>H272-1 Galaxy (R)SA0-</b>	<b>VF,S,LE130</b>
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F	
<b>NGC 3338</b>		<b>H77-2 Galaxy SA(s)c</b>	<b>F,CL,E,VGBM,*7P10S</b>
May 15 2017 12"	7mm TV	VF,PS,OVAL,UB,NND,R=F	
Apr 26 2009 16"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F	
Mar 06 2005 8"	11mmT6	VF,MS,EL,OVAL,PATCHY,NND,AV,R=G	
<b>NGC 3346</b>		<b>H7-5 Galaxy SB(rs)cd</b>	<b>CF,VL,R,VGVLBM,ER</b>
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F	
<b>NGC 3349</b>		<b>Galaxy Sc</b>	<b>EF,VS</b>
Apr 21 2007 31"	17mmT4	DIFF,CF,CS,R,NND,R=F	
<b>NGC 3351</b>	<b>M95</b>	<b>Galaxy SB(r)b</b>	<b>B,L,R,PGMBMN</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
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 3352</b>		<b>Galaxy S0</b>	<b>PB,S,R,BMN</b>
Apr 07 2008 31"	17mmT4	B,PS,OVAL,FNUC,R=F	
<b>NGC 3356</b>		<b>H107-3 Galaxy Sbc</b>	<b>VF,PS,R,BM,*9S150"</b>
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 3357</b>		<b>Galaxy E+:</b>	<b>F,S,MBM</b>
Apr 07 2008 31"	17mmT4	B,PS,R,FNUC,HSB,R=G	
<b>NGC 3362</b>		<b>Galaxy SABc</b>	<b>VF,PS,R,LBM,R</b>
Apr 07 2008 31"	17mmT4	F,L,OVAL,UB,NND,R=F	
<b>NGC 3363</b>		<b>Galaxy S?</b>	<b>F,PS,IR,LBM,R</b>
Apr 07 2008 31"	17mmT4	F,L,OVAL,UB,NND,R=F	
<b>NGC 3367</b>		<b>H78-2 Galaxy SB(rs)c</b>	<b>PB,CL,IR,VGLBM,R,1-3</b>
May 15 2017 12"	7mm TV	VF,PS,R,UB,NND,R=G	
Apr 26 2009 16"	17mmT4	PF,CS,R,UB,NND,R=F	
Mar 19 2004 8"	25mmPL	*12.0 MAG. 2004 MESSIER MAR.*	



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<b>NGC 3368</b>	<b>M96</b>	<b>Galaxy SAB(rs)ab</b>	<b>VB,VL,LE,VSVMBM,R</b>	
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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 3370</b>	<b>H81-2</b>	<b>Galaxy SA(s)c</b>	<b>CB,PL,VLE,GBM,R</b>	
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 3371</b>		<b>Galaxy</b>	<b>EF,R,2ND OF 3</b>	
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 15 2017 12"	7mm TV	PF,PS,OVAL,MEXST,FNUC,R=F		
<b>NGC 3373</b>		<b>Galaxy SA0:</b>	<b>F,R,3RD OF 3</b>	
May 15 2017 12"	7mm TV	PF,VS,OVAL,MEXTMFNUC,R=G		
<b>NGC 3377</b>	<b>H99-2</b>	<b>Galaxy E5-6</b>	<b>VB,CL,LE,SVMBMBN</b>	
May 15 2017 12"	7mm TV	PF,PS,OVAL,FNUC,R=G		
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F		
Apr 26 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3377A</b>		<b>Galaxy SAB(s)m</b>		
May 15 2017 12"	7mm TV	VF,VS,OVAL,UB,NND,R=F		
<b>NGC 3379</b>	<b>M105</b>	<b>H17-1</b>	<b>Galaxy E1</b>	<b>VB,CL,R,PSBM,R</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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.		
<b>NGC 3384</b>	<b>H18-1</b>	<b>Galaxy SB(s)0-:</b>	<b>VB,L,R,PSMBM,2ND OF 3</b>	
Apr 02 2008 8"	11mmT6	PB,PL,OVAL,UB,FNUC,R=G		
Apr 26 2006 8"	11mmT6	FB,PS,OVAL,UB,R=G		

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<b>NGC 3384</b>		<b>H18-1</b>	<b>Galaxy SB(s)0-:</b>	<b>VB,L,R,PSMBM,2ND OF3</b>
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3389</b>		<b>H41-2</b>	<b>Galaxy SA(s)c</b>	<b>F,L,E PF,VGLBM,3RD-3</b>
Apr 02 2008 8"	11mmT6	PF,PS,OVAL,NND,R=F		
Apr 26 2006 8"	11mmT6	PF,PS,EL,OVAL,NND,R=F		
<b>NGC 3391</b>			<b>Galaxy S?</b>	<b>F,S,R,BET2* NR</b>
Apr 07 2008 31"	17mmT4	B,PS,OVAL,UB,NND,HSB,R=F		
<b>NGC 3399</b>			<b>Galaxy S0?</b>	<b>F,VS</b>
Apr 07 2008 31"	17mmT4	PB,S,R,UB,NND,HSB,R=G		
<b>NGC 3405</b>			<b>Galaxy S0</b>	<b>F,ES,ALMSTELL,S*NR</b>
Apr 07 2008 31"	17mmT4	PB,S,R,UB,NND,HSB,R=G		
<b>NGC 3412</b>		<b>H27-1</b>	<b>Galaxy SB(s)0^</b>	<b>B,S,LE135,SMBMN</b>
Apr 26 2006 8"	11mmT6	FB,PS,OVAL,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 3417</b>			<b>Galaxy</b>	<b>EF,VS,ALM STELL</b>
Apr 07 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F		
<b>NGC 3419</b>			<b>Galaxy (R)SAB(r)0+</b>	<b>F,VS,R,ALMSTEL,S*VNR</b>
Apr 07 2008 31"	17mmT4	PB,PS,R,BNUC,HSB,R=G		
<b>NGC 3419A</b>			<b>Galaxy SB(s)b: sp</b>	
Apr 07 2008 31"	17mmT4	PF,PS,EON,UB,NND,R=F		
<b>NGC 3425</b>		<b>H108-3</b>	<b>Non-Existent</b>	<b>EF,ES,R</b>
Apr 07 2008 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 3426</b>			<b>Galaxy S?</b>	<b>PF,S,R,D*N</b>
Apr 07 2008 31"	17mmT4	PB,PS,OVAL,BNUC,HSB,R=G		
<b>NGC 3427</b>			<b>Galaxy S0/a</b>	<b>NEB,NO DESCR</b>
Apr 07 2008 31"	17mmT4	B,S,EL,OVAL,FNUC,R=F		
<b>NGC 3428</b>			<b>Galaxy SAB(s)b</b>	<b>VF,S,LE,GLBM</b>
Apr 07 2008 31"	17mmT4	B,L,EON,UB,NND,R=F		
<b>NGC 3437</b>		<b>H47-2</b>	<b>Galaxy SAB(rs)c:</b>	<b>PB,PL,LE120,GBM</b>
May 13 2007 8"	11mmT6	VF,CS,EL,OVAL,NND,AV,F		
<b>NGC 3454</b>			<b>Galaxy SB(s)c? sp</b>	<b>PF,LE,NP OF 2</b>

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<b>NGC 3454</b>		<b>Galaxy SB(s)c? sp</b>	<b>PF,LE,NP OF 2</b>
May 25 2014 18"	8mm Ds	PF,VS,EON,UB,NND,R=F,PA=110	
<b>NGC 3455</b>		<b>H82-2 Galaxy (R')SAB(rs)b</b>	<b>PF,S,E,GBM,R,SF OF 2</b>
May 25 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 3457</b>		<b>Galaxy S?</b>	<b>2OR3S* AND NEB</b>
May 13 2007 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 3485</b>		<b>H100-2 Galaxy SB(r)b:</b>	<b>F,L,R,GLBM,R</b>
Apr 19 2007 31"	17mmT4	B,L,OVAL,UB,FNUC,R=G	
<b>NGC 3487</b>		<b>Galaxy Sb? sp</b>	<b>EEF,PS,R, V DIFFIC</b>
Apr 19 2007 31"	17mmT4	B,L,EL,OVAL,UB,NND,RR=F	
<b>NGC 3489</b>		<b>H101-2 Galaxy SAB(rs)0+</b>	<b>VB,PL,LE80,SMBMN</b>
Apr 26 2006 8"	11mmT6	FB,FS,OVAL,UB,FNUC,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC 3490</b>		<b>Galaxy E</b>	<b>VF,S</b>
Apr 19 2007 31"	17mmT4	CF,PS,R,UB,NND,R=F	
<b>NGC 3491</b>		<b>H21-3 Galaxy S0-:</b>	<b>EF,CS,R,BMN</b>
Apr 19 2007 31"	17mmT4	CB,CL,R,BNUC,HISB,R=F	
<b>NGC 3492</b>		<b>Galaxy S?</b>	<b>PF,S,*9P20S,1'S</b>
Apr 19 2007 31"	17mmT4	PB,L,OVAL,UB,FNUC,R=G	
<b>NGC 3495</b>		<b>H498-3 Galaxy Sd:</b>	<b>VF,PL,ME</b>
Apr 19 2007 31"	17mmT4	B,PL,EON,FNUC,MHISB,R=G	
<b>NGC 3501</b>		<b>Galaxy Scd:</b>	<b>VF,ME NS,GBM,3'LONG</b>
Apr 19 2007 31"	17mmT4	B,L,EON,UB,NND,R=G	
<b>NGC 3506</b>		<b>H22-3 Galaxy Sc:</b>	<b>VF,CS,R,VGVLBM</b>
Apr 19 2007 31"	17mmT4	PB,L,R,FNUC,MHISB,R=G	
<b>NGC 3507</b>		<b>H7-4 Galaxy SB(s)b</b>	<b>CF,PL,R,SBMS*,*9ATT</b>
Mar 06 2005 8"	11mmT6	DIFF,VF,MS,OVAL,NND,AV,R=F	
<b>NGC 3509</b>		<b>H598-3 Galaxy SA(s)bc pec</b>	<b>EF,S,(LE)</b>
Apr 19 2007 31"	17mmT4	B,PL,EL,OVAL,FNUC,MHISB,R=G	
<b>NGC 3521</b>		<b>H13-1 Galaxy SAB(rs)bc</b>	<b>CB,CL,ME140,VSMBMN</b>
May 31 2019 12"	11mmT6	F,PS,OVAL,MEXT,NND,R=F	
Apr 26 2006 8"	11mmT6	PB,PL,OVAL,BNUC,HISB,R=G	

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<b>NGC 3521</b>		<b>H13-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>CB,CL,ME140,VSMBMN</b>
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS!	MSV5	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3522</b>			<b>Galaxy E</b>	<b>PF,VS,LE</b>
Apr 19 2007 31"	17mmT4	PB,PS,OVAL,FNUC,R=G		
<b>NGC 3524</b>		<b>H23-3</b>	<b>Galaxy S0/a</b>	<b>F,S,LE,PSBM,2*NPLINE</b>
Apr 19 2007 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
<b>NGC 3531</b>			<b>Non-Existent</b>	<b>E50,*11SPEND,(=3526)</b>
Apr 19 2007 31"	17mmT4	B,PL,EON,UB,NND,R=F		
<b>NGC 3534</b>			<b>Galaxy Sb</b>	<b>VF,*9NP 3'</b>
Apr 19 2007 31"	17mmT4	CF,PL,EL,OVAL,UB,NND,R=G		
<b>NGC 3535</b>		<b>H111-3</b>	<b>Galaxy SA(s)a pec:</b>	<b>CF,VS,R,BM,R</b>
Apr 19 2007 31"	17mmT4	PB,CS,OVAL,BNUC,R=G		
<b>NGC 3547</b>		<b>H42-2</b>	<b>Galaxy Sb:</b>	<b>F,S,LE,VLBM</b>
Apr 19 2007 31"	17mmT4	PB,L,UB,NND,R=G		
<b>NGC 3551</b>			<b>Galaxy</b>	<b>EEF,VS,R,SP OF 2</b>
Apr 19 2007 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 3555</b>			<b>Galaxy E?</b>	<b>VF,R,NF OF 2</b>
Apr 19 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 3559</b>		<b>H79-3</b>	<b>Galaxy S pec</b>	<b>EF,PS,LE,R</b>
Apr 19 2007 31"	17mmT4	B,PL,OVAL,UB,NND,R=F		
<b>NGC 3563</b>			<b>Galaxy SB0:</b>	<b>PF,PL,*8M2'N</b>
Apr 19 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MHISB,R=G		
<b>NGC 3563A</b>			<b>Non-Existent</b>	
Apr 19 2007 31"	17mmT4	PB,PS,OVAL,FNUC,R=F		
<b>NGC 3563B</b>			<b>Galaxy S0-a</b>	
Mar 08 2013 18"	8.8 ES	VF,PS,OVA,,UB,NND,R=F,	PAIRED W/NGC-3563A	
<b>NGC 3567</b>		<b>H89-3</b>	<b>Galaxy S0 pec</b>	<b>EF,R,SBM,R</b>
Mar 08 2013 18"	8.8 ES	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 3574</b>			<b>Galaxy S?</b>	<b>EF</b>
Mar 08 2013 18"	8.8 ES	VF,PS,R,UB,NND,R=F		
<b>NGC 3575</b>			<b>Non-Existent</b>	<b>PB,PL,R,*11P</b>

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<b>NGC 3575</b>		<b>Non-Existent</b>	<b>PB,PL,R,*11P</b>
Apr 14 2016 12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
<b>NGC 3592</b>		<b>Galaxy Sc? sp</b>	<b>EF,S,PME60</b>
Mar 08 2013 18"	8.8 ES	PF,PS,EON,UB,NND,R=F	
<b>NGC 3593</b>		<b>H29-1 Galaxy SA(s)0/a:</b>	<b>B,CL,E90,PSMBM</b>
Apr 26 2006 8"	11mmT6	F,L,EON,NND,R=F	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
<b>NGC 3596</b>		<b>H102-2 Galaxy SAB(rs)c</b>	<b>PF,L,R,GLBM</b>
Mar 06 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 3598</b>		<b>Galaxy S0-:</b>	<b>F,VS,STELL,*N</b>
Mar 16 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F	
<b>NGC 3599</b>		<b>H49-2 Galaxy SA0:</b>	<b>B,PS,R,PGMBM</b>
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 3604</b>		<b>H626-2 Galaxy</b>	<b>PB,S,LE,MBM</b>
May 13 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F	
<b>NGC 3605</b>		<b>H27-3 Galaxy E4-5</b>	<b>F,S,R,SP OF 3</b>
May 13 2007 8"	11mmT6	PF,PS,R,NND,R=F	
<b>NGC 3607</b>		<b>H50-2 Galaxy SA(s)0^:</b>	<b>VB,L,R,VMBM,2ND OF 3</b>
Apr 26 2006 8"	11mmT6	PB,L,R,BNUC,HISB,R=G	
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER	
<b>NGC 3608</b>		<b>H51-2 Galaxy E2</b>	<b>B,PL,R,PSBM,3RD OF 3</b>
Apr 26 2006 8"	11mmT6	B,CL,OVAL,NND,R=F	
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER	
<b>NGC 3611</b>		<b>H521-2 Galaxy SA(s)a pec</b>	<b>PF,CS,IR,PSMBM,*NP3'</b>
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,NND,LSB,R=F	
<b>NGC 3623</b>	<b>M65</b>	<b>Galaxy SAB(rs)a</b>	<b>B,VL,ME165,GBMBN</b>
Jun 19 2020 12"	13mmHV	NICE	
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
Apr 20 2018 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	
Apr 15 2007 31"	32mmUV	VB,VL,EON,BNUC,HISB,R=E	

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<b>NGC 3623</b>	<b>M65</b>	<b>Galaxy SAB(rs)a</b>	<b>B,VL,ME165,GBMBN</b>
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 3624</b>		<b>Galaxy SB(r)b</b>	<b>EF</b>
Apr 15 2007 31"	17mmT4	PF,S,OVAL,NND,R=F	
<b>NGC 3626</b>		<b>Galaxy S0-a</b>	<b>B,S,VLE,SBM</b>
Apr 26 2006 8"	11mmT6	B,PS,OVAL,FNUC,MSB,R=F	
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER	
<b>NGC 3627</b>	<b>M66</b>	<b>Galaxy SAB(s)b</b>	<b>B,VL,ME150,MBM,2*NP</b>
Jun 19 2020 12"	13mmHV	NICE	
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
Apr 20 2018 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	
Apr 15 2007 31"	32mmUV	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.	
<b>NGC 3628</b>		<b>Galaxy Sb pec sp</b>	<b>PB,VL,VME102</b>
Mar 25 2020 12"	11mmT6	F,S,EON,EEXT,BRIGHT BULGE,R=G.	
Apr 26 2006 8"	11mmT6	PF,CL,EON,NND,R=F	
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
<b>NGC 3629</b>		<b>Galaxy SA(s)cd:</b>	<b>CF,L,R,VGVLBM</b>
Apr 15 2007 31"	17mmT4	F,PL,OVAL,NND,R=F	
<b>NGC 3630</b>		<b>Galaxy S0 sp</b>	<b>PB,S,R,SMBMN</b>
Apr 15 2007 31"	17mmT4	VB,PL,EONB,BNUC,HISB,R=G	
<b>NGC 3633</b>		<b>Galaxy SAa: sp</b>	<b>VF,S,R,2ST NR</b>
Apr 15 2007 31"	17mmT4	PB,L,EON,UB,NND,R=F	
<b>NGC 3639</b>		<b>Galaxy S?</b>	<b>PF,S,R,VLBM,15'F2376</b>
Apr 15 2007 31"	17mmT4	B,L,OVAL,UB,NND,R=F	

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<b>NGC 3640</b>		<b>H33-2</b>	<b>Galaxy E3</b>	<b>B,PL,R,PSBM</b>
Apr 15 2007 31"	17mmT4	PB,L,R,BNUC,HISB,R=G		
Apr 26 2006 8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 3641</b>			<b>Galaxy E pec</b>	<b>F,VS,ALMSTEL,3640N2'</b>
Apr 15 2007 31"	17mmT4	PB,S,R,BNUC,HISB,R=G		
<b>NGC 3643</b>			<b>Galaxy SB(r)0+: sp</b>	<b>EF,VS</b>
Apr 15 2007 31"	17mmT4	F,L,OVAL,UB,NND,R=F		
Mar 17 2007 8"	11mmT6	F,PS,OVAL,FNUC,R=F		
<b>NGC 3644</b>			<b>Galaxy (R')SBa pec:</b>	<b>VF,VS</b>
Apr 15 2007 31"	17mmT4	PF,S,EL,OVAL,UB,NND,R=F		
<b>NGC 3646</b>		<b>H15-3</b>	<b>Galaxy Ring</b>	<b>CF,CL,LE,GBM,SP OF 2</b>
May 13 2007 8"	11mmT6	CF,PS,OVAL,NND,R=F		
<b>NGC 3651</b>		<b>H335-3</b>	<b>Galaxy E</b>	<b>CF,VS,R,BM,NP OF 2</b>
Apr 26 2008 31"	17mmT4	PB,S,OVAL,UB,NND,R=F		
<b>NGC 3653</b>		<b>H336-3</b>	<b>Galaxy S0?</b>	<b>VF,VS,SF OF 2</b>
Apr 26 2008 31"	17mmT4	PB,S,OVAL,NND,MSB,R=F		
<b>NGC 3655</b>		<b>H5-1</b>	<b>Galaxy SA(s)c:</b>	<b>PB,PS,IR,BM,R</b>
Mar 13 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 3659</b>		<b>H53-2</b>	<b>Galaxy SB(s)m?</b>	<b>CF,S,LE,R</b>
Apr 13 2005 31"	11mmT6	MB,ML,EL,OVAL,NND,MSB,R=G		
<b>NGC 3662</b>		<b>H4-4</b>	<b>Galaxy SAB(r)bc pec</b>	<b>VF,S,ATT TO*13M</b>
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,NND,R=F		
<b>NGC 3664</b>			<b>Galaxy SB(s)m pec</b>	<b>PF,BIN</b>
Mar 17 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3665</b>		<b>H219-1</b>	<b>Galaxy SA(s)0^</b>	<b>CB,CL,IR,PGMBM</b>
Mar 17 2007 8"	11mmT6	PB,L,OVAL,BNUC,R=G		
<b>NGC 3666</b>		<b>H20-1</b>	<b>Galaxy SA(rs)c:</b>	<b>F,E90,*6F34S,5'N</b>
May 13 2007 8"	11mmT6	CF,PS,EON,NND,R=F		
<b>NGC 3678</b>			<b>Galaxy Sbc</b>	<b>VF,S,R,PSBM,*12NF</b>
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,NND,AV3,R=P		
<b>NGC 3679</b>		<b>H112-3</b>	<b>Galaxy Sbc</b>	<b>EF,CL,R,R,VNR VB*</b>
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,NND,AV1,R=P		

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<b>NGC 3681</b>		<b>H159-2</b>	<b>Galaxy SAB(r)bc</b>	<b>B,PS,R,BM</b>
Apr 20 2018 12"	11mmT6			
May 13 2007 8"	11mmT6	CF,CS,R,NND,AV,R=P		
<b>NGC 3684</b>			<b>Galaxy SA(rs)bc</b>	<b>PB,PL,E,VGBM</b>
Apr 20 2018 12"	11mmT6			
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 3686</b>		<b>H160-2</b>	<b>Galaxy SB(s)bc</b>	<b>PB,L,VLE,VGBM,R</b>
Apr 20 2018 12"	11mmT6			
Apr 26 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 3689</b>		<b>H339-2</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,PL,LE,BM</b>
Apr 14 2016 12"	8mm Ds	PF,PS,OVAL,MEXT,NND,R=F		
May 13 2007 8"	11mmT6	F,VS,R,NND,AV,R=F		
<b>NGC 3691</b>		<b>H54-2</b>	<b>Galaxy SBb?</b>	<b>F,PS,LE,R</b>
Apr 14 2016 12"	8mm Ds	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3692</b>		<b>H152-2</b>	<b>Galaxy Sb</b>	<b>F,ME,R</b>
Apr 14 2016 12"	8mm Ds	VF,VS,EON,UB,NND,R=F		
<b>NGC 3697</b>			<b>Galaxy SABb</b>	<b>EF,VS,E90</b>
Mar 30 2014 18"	7mm TV	VF,VS,EON,UB,NND,AV1,R=F,PA=95		
Apr 26 2008 31"	17mmT4	DIFF,PF,PL,EON,UB.NND,R=G		
<b>NGC 3701</b>		<b>H349-2</b>	<b>Galaxy Sbc</b>	<b>PF,PL,LE</b>
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,AV,R=F,PA=135		
<b>NGC 3705</b>		<b>H13-2</b>	<b>Galaxy SAB(r)ab</b>	<b>PF,PL,R,VSMBM,R</b>
May 13 2007 8"	11mmT6	PF,CS,OVAL,NND,R=F		
<b>NGC 3710</b>		<b>H350-2</b>	<b>Galaxy E</b>	<b>F,S,*7,8NF 5'</b>
May 14 2010 31"	17mmT4	PB,PS,R,BNUC,HSB,R=G		
<b>NGC 3713</b>		<b>H367-2</b>	<b>Galaxy S0-</b>	<b>F,CS,R,SBMN</b>
May 14 2010 31"	17mmT4	PB,PS,OVAL,MEXT,BNUC,HSB,R=G		
<b>NGC 3716</b>			<b>Galaxy (R)SAB0^?</b>	<b>VF,VS</b>
May 14 2010 31"	17mmT4	PF,PS,OVAL,MEXT,UB,FNUC,R=F		
<b>NGC 3760</b>			<b>Non-Existent</b>	<b>B,PS,MBMN=*13,*11 NR</b>
Mar 30 2014 18"	7mm TV	B,PS,EON,BNUC,R=G,PA=45		
<b>NGC 3773</b>		<b>H81-3</b>	<b>Galaxy S0</b>	<b>CF,CS,R,PSBM</b>
Apr 18 2012 18"	8.8 ES	PF,PS,OVAL,UB,NND,R=F		



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<b>NGC 3790</b> May 14 2010 31"	17mmT4	<b>H109-3</b> PB,CS,OVAL,UB,FNUC,R=G	<b>Galaxy S0/a</b>	<b>CF,VS,PME,SBM,1STOF3</b>
<b>NGC 3801</b> May 14 2010 31" May 13 2007 8"	17mmT4 11mmT6	<b>H161-2</b> PB,PL,OVAL,MEXT,BNUC,HSB,R=G PF,PS,OVAL,NND,R=F	<b>Galaxy S0?</b>	<b>PF,PL,R,BM,R,2ND OF3</b>
<b>NGC 3802</b> May 14 2010 31"	17mmT4	<b>H30-3</b> PB,PS,EON,UB,DNUC,R=G	<b>Galaxy S</b>	<b>VF,PS,2VB*P,3RD OF3</b>
<b>NGC 3803</b> May 14 2010 31"	17mmT4	EF,VS,R,NND,AV,R=P	<b>Galaxy</b>	<b>VF,S,R</b>
<b>NGC 3807</b> May 14 2010 31"	17mmT4	DIFF,CF,CS,R,UB,NND,R=F	<b>Galaxy</b>	<b>VF, S, R (VF*?)</b>
<b>NGC 3810</b> Apr 18 2012 18" Apr 26 2006 8" Apr 14 2004 8"	8.8 ES 11mmT6 25mmPL	<b>H21-1</b> PF,S,OVAL,FNUC,R=G PF,L,OVAL,UB,NND,R=F CLEAR NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(rs)c</b>	<b>B,L,VLE</b>
<b>NGC 3812</b> Apr 28 2006 31"	19mmW	<b>H320-3</b> CB,PL,R,FNUC,R=G	<b>Galaxy E</b>	<b>CF,VS,R,1STOF3,*6SF</b>
<b>NGC 3814</b> Apr 28 2006 31"	19mmW	VF,PS,EL,OVAL,NND,R=F	<b>Galaxy S0</b>	<b>VS,NEBS*,P 3815</b>
<b>NGC 3815</b> Apr 28 2006 31"	19mmW	<b>H339-3</b> CB,PL,OVAL,UB,NND,R=F	<b>Galaxy Sab</b>	<b>CF,S,3RD OF 3</b>
<b>NGC 3816</b> Apr 28 2006 31"	19mmW	CB,CL,EL,OVAL,UB,NND,R=F	<b>Galaxy S0</b>	<b>F,S,BM</b>
<b>NGC 3817</b> May 18 2007 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F	<b>Galaxy SB0/a</b>	<b>F,1ST OF 4</b>
<b>NGC 3819</b> May 18 2007 31"	17mmT4	PF,CS,OVAL,NND,R=F	<b>Galaxy E?</b>	<b>VF,2ND OF 4</b>
<b>NGC 3820</b> May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	<b>Galaxy S?</b>	<b>EF,VS,3819 S</b>
<b>NGC 3839</b> May 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	<b>Galaxy Sdm:</b>	<b>VF,S,R,LBM</b>
<b>NGC 3857</b> May 07 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy S0?</b>	<b>VF,VS,MBM</b>

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<b>NGC 3859</b>		<b>Galaxy S?</b>	<b>EF,VS,R,LBM,(R)</b>
May 07 2007 31"	17mmT4	PB,PL,EON,UB,NND,R=G	
<b>NGC 3860</b>		<b>H386-3 Galaxy S?</b>	<b>VF,VS,RESOLVABLE</b>
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,FNUC,R=G	
<b>NGC 3861</b>		<b>Galaxy (R')SAB(r)b</b>	<b>F,S,R,BM</b>
May 07 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	
<b>NGC 3862</b>		<b>H385-3 Galaxy E</b>	<b>VF,VS,R,*17N</b>
May 13 2007 8"	11mmT6	CF,CS,EON,NND,R=F	
May 13 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	
May 07 2007 31"	17mmT4	PB,PL,R,FNUC,HISB,R=G	
<b>NGC 3864</b>		<b>Galaxy S?</b>	<b>EF,VS,R</b>
May 07 2007 31"	17mmT4	PF,PS,OVAL,NND,AV,R=F	
<b>NGC 3867</b>		<b>Galaxy S?</b>	<b>F,S,IRRR,MBM,S OF 2</b>
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G	
<b>NGC 3868</b>		<b>Galaxy S?</b>	<b>VF,VS,R,MBM,N OF 2</b>
May 07 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F	
<b>NGC 3869</b>		<b>Galaxy Sa</b>	<b>F,S,IR,PSBM</b>
May 07 2007 31"	17mmT4	PB,PL,EON,FNUC,HISB,R=G	
<b>NGC 3872</b>		<b>H104-2 Galaxy E5</b>	<b>B,S,R,SMBM*</b>
Apr 18 2012 18"	8.8 ES	PF,PS,OVAL,FNUC,R=F	
May 07 2007 31"	17mmT4	CB,PL,R,BNUC,HISB,R=G	
<b>NGC 3873</b>		<b>Galaxy E</b>	<b>VF,PS,LE,3875 SF</b>
May 07 2007 31"	17mmT4	PB,PL,R,FNUC,MSB,R=G	
<b>NGC 3875</b>		<b>H387-3 Galaxy S0/a</b>	<b>VF,VS,RESOLVABLE</b>
May 07 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G	
<b>NGC 3883</b>		<b>H372-3 Galaxy SA(rs)b</b>	<b>VF,CL</b>
May 07 2007 31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F	
<b>NGC 3884</b>		<b>H388-3 Galaxy SA(r)0/a</b>	<b>CF,S,IR,GBM,R,*7SP6'</b>
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,FNUC,MSB,R=G	
<b>NGC 3886</b>		<b>Galaxy S0-:</b>	<b>F</b>
May 07 2007 31"	17mmT4	PB,PS,EON,UB,FNUC,R=G	
<b>NGC 3900</b>		<b>H82-1 Galaxy SA(r)0+</b>	<b>B,PL,VLE0,BMN</b>
Mar 29 2006 8"	11mmT6	F,L,OVAL,NND,R=F	

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<b>NGC 3902</b>		<b>H321-3</b>	<b>Galaxy SAB(s)bc:</b>	<b>F,PS,LE,VGLBM</b>
May 07 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
<b>NGC 3910</b>			<b>Galaxy S0-:</b>	<b>S,R,MBM,*10,11N50"</b>
May 07 2007 31"	17mmT4	PB,PS,OVAL,DNUC,MSB,R=G		
<b>NGC 3911</b>		<b>H341-3</b>	<b>Galaxy SB?</b>	<b>VF,S,P OF 2</b>
May 07 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,AV,R=F		
<b>NGC 3912</b>		<b>H342-2</b>	<b>Galaxy SAB(s)b? pec</b>	<b>F,PL,R,PGBM</b>
Mar 29 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3919</b>			<b>Galaxy E</b>	<b>F,S,R</b>
May 07 2007 31"	17mmT4	PB,PS,R,BNUC,HISB,R=G		
<b>NGC 3920</b>			<b>Galaxy S?</b>	<b>NEB,F OF 2</b>
May 07 2007 31"	17mmT4	PB,PL,R,UB,NND,R=G		
<b>NGC 3925</b>			<b>Galaxy SAB0/a</b>	<b>VF,VS</b>
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 3926A</b>		<b>H379-3</b>	<b>Galaxy E/S0</b>	<b>EF,ES,VLE,ER,ST NR</b>
May 07 2007 31"	17mmT4	PB,S,R,UB,NND,R=F		
<b>NGC 3926B</b>		<b>H379-3</b>	<b>Galaxy E/S0</b>	<b>EF,ES,VLE,ER,ST NR</b>
May 07 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G		
<b>NGC 3929</b>			<b>Galaxy E?</b>	<b>CL,S,ST F,VC</b>
May 07 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F		
<b>NGC 3933</b>			<b>Galaxy S?</b>	<b>PF,LE</b>
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 3934</b>			<b>Galaxy S?</b>	<b>EF,R</b>
May 07 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 3937</b>		<b>H389-3</b>	<b>Galaxy S0-:</b>	<b>EF, VS, 3937 F 12S</b>
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,FNUC,MSB,R=G		
<b>NGC 3940</b>		<b>H380-3</b>	<b>Galaxy E</b>	<b>VF,CS,R</b>
May 07 2007 31"	17mmT4	PB,PL,R,FNUC,HISB,R=G		
<b>NGC 3943</b>			<b>Galaxy S?</b>	<b>PF,PS,E,*8P24S</b>
May 07 2007 31"	17mmT4	PB,PL,R,UB,NND,R=G		
<b>NGC 3987</b>			<b>Galaxy Sb</b>	<b>F,ME</b>
May 07 2007 31"	17mmT4	PB,CL,EON,UB,NND,R=G		

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<b>NGC 3993</b>		<b>Galaxy Sb: sp</b>	<b>VF,PS,E,3* NR</b>
May 07 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,HISB,R=G	
<b>NGC 3997</b>		<b>Galaxy SBb pec</b>	<b>PF,VS,E25,BET 2ST</b>
May 07 2007 31"	17mmT4	PB,CL,OVAL,UB,FNUC,HISB,R=G	
<b>NGC 3999</b>		<b>Galaxy S0</b>	<b>VF,S</b>
May 07 2007 31"	17mmT4	DIFF,PF,CS,OVAL,NND,R=F	
<b>NGC 4000</b>		<b>Galaxy S?</b>	<b>VF,VS,LE,*8F2',05 SF</b>
May 07 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F	
<b>NGC 4002</b>		<b>H344-3 Galaxy S0?</b>	<b>VF,VS,R,N OF 2</b>
May 14 2010 31"	17mmT4	PB,CS,OVAL,MEXT,BNUC,HSB,R=G	
<b>NGC 4004</b>		<b>H354-3 Galaxy Pec</b>	<b>F,VS,R,*12 NEAR</b>
Apr 28 2006 31"	19mmW	CF,CS,EON,UB,NND,R=F	
<b>NGC 4005</b>		<b>Galaxy S?</b>	<b>PF,VS,MBM,*7NP2'</b>
May 07 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	
<b>NGC 4007</b>		<b>H325-3 Non-Existent</b>	
May 14 2010 31"	17mmT4	PF,PS,OVAL,MEXT,BNUC,HSB,R=G	
<b>NGC 4008</b>		<b>H368-2 Galaxy E5</b>	<b>PB,PS,E,PSBM,*INV N</b>
May 13 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 4011</b>		<b>Galaxy S0</b>	<b>VF,VS,*12NP</b>
May 07 2007 31"	17mmT4	DIFF,CF,CS,OVAL,NND,V,R=F	
<b>PGC 27681</b>		<b>Galaxy Sb</b>	
Mar 30 2014 18"	7mm TV	VF,PS,EON,NND,AV,R=F,PA=130	
<b>PGC 28700</b>		<b>Galaxy Scd:</b>	
May 25 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=55	
<b>PGC 29372</b>		<b>Galaxy Sb</b>	
Apr 07 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 29413</b>		<b>Galaxy SABdm:</b>	
Apr 19 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>PGC 29488</b>		<b>Galaxy E3</b>	
Apr 29 2011 12"	17mmAT	DIFF,CF,PS,OVAL,UB,NND,R=F	
Apr 19 2006 31"	19mmW	PF,PL,OVAL,NND,R=F	
<b>PGC 29698</b>		<b>Galaxy Scd:</b>	

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<b>PGC 29698</b>			<b>Galaxy Scd:</b>
May 25 2014 18"	8mm Ds	VF,VS,EON,UB,NND,R=F,PA=95	
<b>PGC 29722</b>			<b>Galaxy S</b>
Apr 15 2007 31"	17mmT4	PB,L,EON,BNUC,HISB,R=G	
<b>PGC 29768</b>			<b>Galaxy S</b>
Apr 15 2007 31"	17mmT4	PF,S,OVAL,NND,R=F	
<b>PGC 30008</b>			<b>Galaxy S</b>
Apr 15 2007 31"	17mmT4	B,PS,R,NND,R=F	
<b>PGC 30221</b>			<b>Galaxy Sb</b>
Apr 21 2007 31"	17mmT4	CF,PS,EON,NND,R=F	
<b>PGC 30263</b>			<b>Galaxy S?</b>
Apr 21 2007 31"	17mmT4	PF,CS,OVAL,FNUC,R=F	
<b>PGC 30265</b>			<b>Galaxy</b>
Apr 21 2007 31"	17mmT4	PF,CS,OVAL,FNUC,R=F	
<b>PGC 30326</b>			<b>Galaxy S</b>
Apr 21 2007 31"	17mmT4	CF,PS,R,NND,AV,R=F	
<b>PGC 30328</b>			<b>Galaxy Sab</b>
Apr 21 2007 31"	17mmT4	CF,PS,EON,NND,AV,R=F	
<b>PGC 30378</b>			<b>Galaxy C</b>
Apr 28 2006 31"	19mmW	PF,PS,R,NND,AV,R=F	
<b>PGC 30397</b>			<b>Galaxy</b>
Apr 21 2007 31"	17mmT4	F,CS,R,NND,R=F	
<b>PGC 30431</b>			<b>Galaxy</b>
Apr 21 2007 31"	17mmT4	DIFF,PB,PS,R,NND,R=F	
<b>PGC 30432</b>			<b>Galaxy L</b>
Apr 21 2007 31"	17mmT4	DIFF,PB,L,R,NND,R=F	
<b>PGC 30456</b>			<b>Galaxy</b>
Apr 21 2007 31"	17mmT4	PB,CS,OVAL,FNUC,MSB,R=G	
<b>PGC 30464</b>			<b>Galaxy S</b>
Apr 21 2007 31"	17mmT4	VF,CS,EON,NND,AV,R=F	
<b>PGC 30573</b>			<b>Galaxy S</b>
Apr 21 2007 31"	17mmT4	DIFF,PB,CL,R,NND,R=F	

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<b>PGC 30585</b>			<b>Galaxy SB?</b>
Apr 21 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G	
<b>PGC 31075</b>			<b>Galaxy Sbc</b>
Apr 19 2006 31"	19mmW	PB,PL,EON,UB,BNUC,R=G	
<b>PGC 31526</b>			<b>Galaxy Sc</b>
Apr 21 2007 31"	17mmT4	CF,PS,R,NND,AV,R=F	
<b>PGC 32418</b>			<b>Galaxy</b>
Apr 07 2008 31"	17mmT4	PF,VS,R,NND,R=F	
<b>PGC 32419</b>			<b>Galaxy</b>
Apr 07 2008 31"	17mmT4	PF,VS,OVAL,NND,AV,R=F	
<b>PGC 32572</b>			<b>Galaxy DB</b>
Apr 07 2008 31"	17mmT4	DIFF,PF,PL,OVAL,NND,LSB,R=F	
<b>PGC 32948</b>			<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 33147</b>			<b>Galaxy Sbc</b>
Apr 19 2007 31"	17mmT4	VF,L,EON,NND,AV,R=F	
<b>PGC 33170</b>			<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	PF,PS,R,NND,R=F	
<b>PGC 33213</b>			<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	PF,PS,EL,OVAL,NND,R=F	
<b>PGC 33237</b>			<b>Galaxy S</b>
Apr 19 2007 31"	17mmT4	VF,VS,EL,OVAL,NND,AV,R=F	
<b>PGC 33244</b>			<b>Galaxy SB(s)c:</b>
Apr 19 2007 31"	17mmT4	CF,PS,EON,NND,R=F	
<b>PGC 33273</b>			<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	CF,PS,OVAL,NND,R=F	
<b>PGC 33278</b>			<b>Galaxy Sab</b>
Apr 19 2007 31"	17mmT4	CF,PS,OVAL,NND,AV,R=F	
<b>PGC 33282</b>			<b>Galaxy L</b>
Apr 19 2007 31"	17mmT4	B,VS,OVAL,FNUC,R=F	
<b>PGC 33396</b>			<b>Galaxy Dwarf Spiral</b>
Apr 19 2007 31"	17mmT4	VF,PS,R,NND,AV,R=F	

## Leo - The Lion

<b>PGC 33461</b>			<b>Galaxy SAB(r)b:</b>
Apr 19 2007	31"	17mmT4	VF,PS,OVAL,NND,AV,R=F
<b>PGC 33798</b>			<b>Galaxy E</b>
Apr 19 2007	31"	17mmT4	PF,PL,OVAL,UB,NND,R=F
<b>PGC 33816</b>			<b>Galaxy</b>
Apr 19 2007	31"	17mmT4	CF,PS,R,NND,AV,R=F
<b>PGC 33843</b>			<b>Galaxy</b>
Apr 19 2007	31"	17mmT4	VF,VS,EL,OVAL,NND,R=F
<b>PGC 34591</b>			<b>Galaxy S0 pec</b>
Apr 15 2007	31"	17mmT4	VF,VS,R,NND,AV,R=F
<b>PGC 34633</b>			<b>Galaxy</b>
Apr 15 2007	31"	17mmT4	VF,VS,OVAL,NND,R=F
<b>PGC 34881</b>			<b>Galaxy S0?</b>
Apr 26 2008	31"	17mmT4	PB,S,R,UB,NND,R=F
<b>PGC 34901</b>			<b>Galaxy Star ??</b>
Apr 26 2008	31"	17mmT4	VF,VS,R,NND,AV,R=F
<b>PGC 34907</b>			<b>Galaxy S?</b>
Apr 26 2008	31"	17mmT4	B,VS,R,UB,R=F
<b>PGC 35103</b>			<b>Galaxy S</b>
Apr 13 2005	31"	11mmT6	MF,MS,EL,OVAL,NND,AV,R=F
<b>PGC 35179</b>			<b>Galaxy S</b>
Apr 26 2008	31"	17mmT4	VF,VS,EL,OVAL,NND,R=F
<b>PGC 35183</b>			<b>Galaxy SB?</b>
Apr 26 2008	31"	17mmT4	VF,VS,EL,,OVAL,NND,R=F
<b>PGC 35355</b>			<b>Galaxy S?</b>
Apr 26 2008	31"	17mmT4	PF,S,OVAL,UB,NND,R=F
<b>PGC 35360</b>			<b>Galaxy S0?</b>
Apr 26 2008	31"	17mmT4	PF,VS,EL,OVAL,UB,FNUC,R=G
<b>PGC 35381</b>			<b>Galaxy S</b>
Apr 26 2008	31"	17mmT4	VF,VS,R,NND,
<b>PGC 35514</b>			<b>Galaxy</b>
May 14 2010	31"	17mmT4	VF,CS,OVAL,NND,R=F

## Leo - The Lion

<b>PGC 35588</b>			<b>Galaxy S0?</b>
May 14 2010 31"	17mmT4	PB,CS,R,BNUC,HSB,R=G	
<b>PGC 35589</b>			<b>Galaxy S</b>
May 14 2010 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>PGC 35977</b>			<b>Galaxy S?</b>
Sep 01 2008 31"	17mmT4	CF,VS,OVAL,NND,R=F	
<b>PGC 35991</b>			<b>Galaxy Sd</b>
May 25 2014 18"	8mm Ds	VF,FS,EON,UB,NND,AV1,R=P,PA=130	
<b>PGC 36189</b>			<b>Galaxy S</b>
May 14 2010 31"	17mmT4	VF,VS,EON,UB,,NND,AV,R=F	
<b>PGC 36431</b>			<b>Galaxy Sb</b>
May 25 2014 18"	8mm Ds	VF,VS,EON,UB,NND,AV2,R=F,PA=60	
<b>PGC 36550</b>			<b>Galaxy S</b>
May 07 2007 31"	17mmT4	PF,CS,R,UB,NND,R=F	
<b>PGC 36565</b>			<b>Galaxy</b>
May 07 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>PGC 36566</b>			<b>Galaxy</b>
May 07 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>PGC 36575</b>			<b>Galaxy</b>
May 07 2007 31"	17mmT4	PF,PS,RL,OVAL,NND,R=F	
<b>PGC 36586</b>			<b>Galaxy</b>
May 07 2007 31"	17mmT4	DIFF,PF,PS,EL,OVAL,NND,R=F	
<b>PGC 36589</b>			<b>Galaxy S?</b>
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>PGC 36619</b>			<b>Galaxy E</b>
May 07 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
<b>PGC 36622</b>			<b>Galaxy</b>
May 07 2007 31"	17mmT4	VF,PS,R,NND,R=F	
<b>PGC 36759</b>			<b>Galaxy S?</b>
Apr 18 2012 18"	8.8 ES	VF,VS,OVAL,NND,AV2,R=F	
<b>PGC 37018</b>			<b>Galaxy S R</b>
May 07 2007 31"	17mmT4	VF,PS,R,NND,AV,R=F	



## Leo - The Lion

**PGC 37039**

May 07 2007 31" 17mmT4 PF,VS,OVAL,UB,NND,R=F

**Galaxy**

**PGC 37040**

May 07 2007 31" 17mmT4 CF,CS,OVAL,UB,NND,R=F

**Galaxy S**

**PGC 37096**

May 07 2007 31" 17mmT4 CF,PS,OVAL,NND,R=F

**Galaxy E**

**PGC 37175**

May 07 2007 31" 17mmT4 PF,PS,R,UB,NND,R=F

**Galaxy S?**

**PGC 37192**

May 07 2007 31" 17mmT4 PF,PS,EL,OVAL,NND,R=F

**Galaxy S**

## Lepus - The Hare

<b>IC 418</b>			<b>Planetary Neb 4</b>	
Dec 28 2008 31"	17mmT4	VB,VS,R,R=G, CENTRAL STAR		
<b>MAC 0511-1505</b>			<b>Galaxy</b>	
Feb 20 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 1730</b>			<b>Galaxy SB(r)a</b>	<b>F,PS,LE,BET2F*</b>
Nov 22 2006 8"	11mmT6	PF,S,OVAL,NND,R=F		
<b>NGC 1738</b>			<b>Galaxy SB(s)bc pec:</b>	<b>VF,S,E45</b>
Nov 22 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 1744</b>			<b>Galaxy SB(s)d</b>	<b>F,VL,VME,VGV LBM</b>
Nov 22 2006 8"	11mmT6	DIFF,F,PL,OVAL,NND,R=F		
<b>NGC 1784</b>			<b>Galaxy SB(r)c</b>	<b>PB,PL,VLE,VGBM,AM ST</b>
Nov 22 2006 8"	11mmT6	PF,L,OVAL,NND,AV,R=F		
<b>NGC 1821</b>			<b>Galaxy IB(s)m</b>	<b>VF,VS,LE</b>
Feb 20 2006 31"	17mmT4	MB,MS,OVAL,FNUC,R=G		
<b>NGC 1832</b>		<b>H292-2</b>	<b>Galaxy SB(r)bc</b>	<b>PB,IR,MBM,C*Nf1'</b>
Nov 22 2006 8"	11mmT6	VF,PL,OVAL,NND,AV,R=F		
<b>NGC 1888</b>		<b>H289-2</b>	<b>Galaxy SB(s)c pec</b>	<b>PB,PL,R,R</b>
Nov 22 2006 8"	11mmT6	PF,S,EL,OVAL,R=F		
<b>NGC 1904</b>	<b>M79</b>		<b>Globular</b>	<b>GCL,PL,ERI,EC,RRR</b>
Feb 21 2020 36"	17mmT4	F,L,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 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		
<b>NGC 1954</b>		<b>H590-3</b>	<b>Galaxy SA(rs)bc pec:</b>	<b>VF,S,R,SMBM</b>
Nov 22 2006 8"	11mmT6	PF,S,OVAL,NND,AV,R=F		
<b>NGC 1964</b>		<b>H21-4</b>	<b>Galaxy SAB(s)b</b>	<b>F,VS,R,VSVMBM,3*INV</b>
Dec 04 2004 8"	11mmT6	MB,EL,FNUC,MSB,R=G		
<b>NGC 1979</b>		<b>H240-3</b>	<b>Galaxy SA0:</b>	<b>VF,VS,STELLAR</b>
Nov 22 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 2073</b>		<b>H241-3</b>	<b>Galaxy SA(rs)0-:</b>	<b>EF,VS,R,GBM</b>

## Lepus - The Hare

<b>NGC 2073</b> Nov 22 2006 8"	11mmT6	<b>H241-3</b> VF,VS,R,NND,AV,R=F	<b>Galaxy SA(rs)0-:</b>	<b>EF,VS,R,GBM</b>
<b>NGC 2106</b> Nov 22 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB(s)0^</b>	<b>VF,S,VLE,GBM</b>
<b>NGC 2124</b> Nov 22 2006 8"	11mmT6	<b>H225-3</b> VF,CS,EON,NND,R=F	<b>Galaxy SA(s)b?</b>	<b>EEF,PS,E,R</b>
<b>NGC 2139</b> Nov 22 2006 8"	11mmT6	<b>H264-2</b> VF,PS,OVAL,NND,R=F	<b>Galaxy SAB(rs)cd</b>	<b>F,S</b>
<b>NGC 2179</b> Nov 22 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)0/a</b>	<b>F,PS,VME,GLBM</b>
<b>NGC 2196</b> Nov 22 2006 8"	11mmT6	<b>H265-2</b> VF,PS,OVAL,NND,AV,R=F	<b>Galaxy (R')SA(s)a</b>	<b>PF,PS,VLE,PMBM,ST NR</b>

## Libra - The Balance

<b>IC 4501</b>			<b>Galaxy SB(s)dm</b>	
Jul 06 2010	12"	7.5mmW	VF,VS,OVAL,UB,NND,R=F	
<b>NGC 5595</b>			<b>H121-3</b>	<b>Galaxy SAB(rs)c</b>
May 28 2006	31"	19mmW	PF,PS,OVA,NND,R=F	<b>F,PL,R,VGBM,P OF 2</b>
<b>NGC 5597</b>			<b>H122-3</b>	<b>Galaxy SAB(s)cd</b>
Jun 03 2019	12"	8mm Et	VF,PS,OVAL,NND,AV2,R=F	<b>VF,L,VLE,VGLBM,F OF2</b>
May 28 2006	31"	19mmW	F,S,OVA,NND,R=F	
<b>NGC 5605</b>			<b>H120-3</b>	<b>Galaxy (R')SAB(rs)c p:</b>
May 28 2006	31"	19mmW	CF,PS,OVAL,NND,R=F	<b>VF,PL,R,VGBM</b>
<b>NGC 5663</b>				<b>Galaxy SA0-:</b>
May 28 2006	31"	19mmW	CF,CS,R,NND,R=F	<b>EF,VS,R,GLBM</b>
<b>NGC 5664</b>				<b>Galaxy Sa</b>
Apr 14 2016	12"	11mmT6	VF,PS,OVAL,UB,NND,R=G	<b>PF,S,E,GBM</b>
May 28 2006	31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>NGC 5716</b>			<b>H671-3</b>	<b>Galaxy SB(rs)c?</b>
May 28 2006	31"	19mmW	CF,PS,OVAL,NND,R=F	<b>VF,PL,R</b>
<b>NGC 5726</b>				<b>Galaxy S0- pec sp</b>
May 28 2006	31"	19mmW	CF,CS,OVAL,NND,R=F	<b>F,S,R,GBM,*10.5NP3'</b>
<b>NGC 5728</b>			<b>H184-1</b>	<b>Galaxy SAB(r)a:</b>
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	<b>PF,PL,PME45,MBM,*10S</b>
<b>NGC 5729</b>			<b>H508-3</b>	<b>Galaxy Sb pec:</b>
May 28 2006	31"	19mmW	PF,PS,EON,NND,R=F	<b>F,PL,E,R</b>
<b>NGC 5734</b>				<b>Galaxy S0^ pec sp</b>
May 28 2006	31"	19mmW	F,CS,OVAL,NND,R=F	<b>VF,S,LE,GLBM</b>
<b>NGC 5741</b>				<b>Galaxy E</b>
May 28 2006	31"	19mmW	PF,S,R,NND,R=F	<b>VF,VS,R,SBMN</b>
<b>NGC 5742</b>				<b>Galaxy SB(r)0^?</b>
May 28 2006	31"	19mmW	PF,S,EON,NND,R=F	<b>F,PS,PME,GBMN</b>
<b>NGC 5743</b>				<b>Galaxy Sb:</b>
May 28 2006	31"	19mmW	CF,CS,OVAL,NND,R=F	<b>F,S,ME,SMBMN</b>
<b>NGC 5744</b>				<b>Galaxy (R')SB(rs)d:</b>
May 29 2006	31"	19mmW	PF,CS,R,NND,R=F	<b>EF,VS,(NEB)</b>

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<b>NGC 5745</b>			<b>Galaxy Sa pec sp</b>	<b>VF,S,E,PSLBM</b>
May 29 2006 31"	19mmW	CF,S,OVA,NND,R=F		
<b>NGC 5756</b>			<b>Galaxy (R')SB(s)bc p</b>	<b>PB,PL,PME,GPMBM</b>
May 29 2006 31"	19mmW	F,PS,EON,NND,R=F		
<b>NGC 5757</b>		<b>H690-3</b>	<b>Galaxy (R)SB(r)b</b>	<b>VF,S,IR,LBM</b>
May 29 2006 31"	19mmW	F,PS,OVAL,NND,R=F		
<b>NGC 5761</b>			<b>Galaxy S0^ pec:</b>	<b>VF,S,R,GLBMN</b>
May 29 2006 31"	19mmW	PF,S,R,NND,R=F		
<b>NGC 5766</b>			<b>Galaxy SAB(s)bc:</b>	<b>EF,PS,R,GBM</b>
May 29 2006 31"	19mmW	CF,CS,OVAL,NND,R=F		
<b>NGC 5768</b>		<b>H373-3</b>	<b>Galaxy SA(rs)c:</b>	<b>F,R,BMFN,S*S</b>
May 29 2006 31"	19mmW	F,PS,OVAL,NND,R=F		
<b>NGC 5781</b>			<b>Galaxy (R')SBb pec sp</b>	<b>F,S,R,BM,*16SP</b>
May 29 2006 31"	19mmW	F,PS,EL,OVAL,NND,R=F		
<b>NGC 5791</b>		<b>H691-3</b>	<b>Galaxy E6:</b>	<b>PF,S,R,STELLAR</b>
Jul 03 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F		
<b>NGC 5792</b>		<b>H683-2</b>	<b>Galaxy SB(rs)b</b>	<b>PB,PL,R,MBM,*8,9NP1'</b>
Jul 03 2005 8"	11mmT6	VF,VS,EON,NND,R=F		
<b>NGC 5793</b>			<b>Galaxy Sb: sp</b>	<b>EF,PS,E,BMN</b>
May 29 2006 31"	19mmW	F,PS,EON,NND,R=F		
<b>NGC 5796</b>			<b>Galaxy E0-1</b>	<b>F,PS*INCENTRE</b>
May 29 2006 31"	19mmW	PB,S,OVAL,FNUC,R=G		
<b>NGC 5809</b>			<b>Galaxy S0/a: sp</b>	<b>VF,S,E,GLBM</b>
Jul 06 2010 12"	7.5mmW	EF,VS,OVAL,PEXT,UB,NND,AV,R=P		
<b>NGC 5810</b>			<b>Galaxy SB(rs)b:</b>	<b>EF,VS,LE230,BET 2VF*</b>
Jul 06 2010 12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5812</b>		<b>H71-1</b>	<b>Galaxy E0</b>	<b>CB,S,R,SVMBM</b>
May 18 2014 18"	8mm Ds	PF,PS,R,FNUC,R=F		
Mar 18 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 5816</b>			<b>Galaxy</b>	<b>F,PS,GBMN,STELLAR</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 5817</b>			<b>Galaxy S0</b>	<b>VF,PS</b>

## Libra - The Balance

<b>NGC 5817</b>		<b>Galaxy S0</b>	<b>VF,PS</b>
May 18 2014 18"	8mm Ds	VF,VS,R,UB,NND,AV2,R=P	
<b>NGC 5849</b>		<b>Galaxy S0</b>	<b>*13INVF NEB,3*P1S</b>
May 18 2014 18"	8mm Ds	VF,VS,R,UB,NND,AV1,R=P	
<b>NGC 5858</b>		<b>Galaxy E6:</b>	<b>F,S,STELLN,5861SF</b>
Jul 06 2010 12"	7.5mmW	VF,VS,R,UB,NND,AV,R=F	
<b>NGC 5861</b>		<b>H192-2 Galaxy SAB(rs)c</b>	<b>F,L,E,R</b>
Jun 07 2010 12"	9mm	DIFF,CF,PS,OVAL,MEXT,NND,AV,R=P	
May 19 2010 12"	7.5mmW	DIFF,CF,PS,OVAL,UB,NND,AV,R=F	
<b>NGC 5863</b>		<b>Galaxy (R')SAB(rs)a</b>	<b>*12IN EFNEB,S,R</b>
Jul 06 2010 12"	7.5mmW	CF,CS,OVAL,UB,NND,R=F	
<b>NGC 5872</b>		<b>Galaxy SAB0^:</b>	<b>NO DESCRIPTION</b>
Jul 06 2010 12"	7.5mmW	PF,CS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 5878</b>		<b>H736-3 Galaxy SA(s)b</b>	<b>PB,PL,PME0,PSMBM</b>
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 5880</b>		<b>Galaxy E</b>	<b>EF,VS,R,BM,NR 5883</b>
May 18 2014 18"	8mm Ds	VF,VS,R,UB,NND,R=F, MEGASTAR STAYS 15.5 MAGNITUDE. NGC/IC SAYS 14.3 MAG.	
<b>NGC 5883</b>		<b>Galaxy S0</b>	<b>NO DESCRIPTION</b>
May 18 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND, R=F	
<b>NGC 5885</b>		<b>H116-3 Galaxy SAB(r)c</b>	<b>F,CL,R,VGBM</b>
Jul 06 2010 12"	7.5mmW	PF,CS,R,UB,NND,R=F	
<b>NGC 5890</b>		<b>Galaxy SA(r)0+?</b>	<b>VF,VS,E235</b>
Jul 06 2010 12"	7.5mmW	EF,VS,OVAL,NND,AV,R=F	
<b>NGC 5891</b>		<b>Galaxy Sbc</b>	<b>VF,PS,LE,GBM,*11F</b>
Jul 06 2010 12"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 5892</b>		<b>Galaxy SA(s)d</b>	<b>EF,L,GBM</b>
Jul 06 2010 12"	7.5mmW	VF,VS,OVAL,NND,R=F	
<b>NGC 5897</b>		<b>H19-6 Globular</b>	<b>GCL,PF,L,VIR,VGBM,</b>
Jun 19 2020 12"	13mmHV	F,L,R=F	
May 30 2016 12"	8mm Ds	PF,S,R=F	
Jul 21 2007 1.9"	12x50	PF,PS,AV,R=F	
Jul 23 2006 8"	11mmT6	CF,PS,R,R=F	
Jul 15 2006 8"	19mmW	VF,PS,R=F, DIM, UNRESOLVED.	
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL	

## Libra - The Balance

<b>NGC 5898</b>		<b>H138-3</b>	<b>Galaxy E0</b>	<b>F,S,R,GBM</b>
Jul 06 2010	12"	7.5mmW	F,CS,OVAL,UB,NND,AV,R=F	
<b>NGC 5903</b>		<b>H139-3</b>	<b>Galaxy E2</b>	<b>CF,S,R,GPMBM</b>
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 5915</b>			<b>Galaxy SB(s)ab pec</b>	<b>B,S,R,GLBM,P OF 2</b>
Jul 06 2010	12"	7.5mmW	PF,CS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 5959</b>			<b>Galaxy E+:</b>	<b>VF,PS,VLE,BMN</b>
Jul 06 2010	12"	7.5mmW	CF,CS,R,UB,NND.R=F	
<b>PGC 52612</b>			<b>Galaxy SB(s)d</b>	
May 28 2006	31"	19mmW	VF,CS,OVAL,NND,AV,R=F	
<b>PGC 52816</b>			<b>Galaxy (R')SB(r)a</b>	
Jul 06 2010	12"	7.5mmW	VF,S,R,UB,NND,R=F	
<b>Lupus - The Wolf</b>				
<b>NGC 5824</b>			<b>Globular</b>	<b>PB,S,STELL,N</b>
Jun 19 2020	12"	13mmHV	B,S,R=F	
Jul 01 2016	12"	8mm Et	B,S,R=G, CANNOT RESOLVE STARS	
<b>NGC 5986</b>			<b>Globular</b>	<b>GCL,VB,L,R,VGBM,*13.</b>
Jun 19 2020	12"	13mmHV	F,S,R=G. CAN RESOLVE STARS. -37 DEGREES LAT.	
Jul 01 2016	12"	8mm Et	F,S,R=F, FAINT OUTER STARS	

## Lynx - The Lynx

<b>IC 458</b>			<b>Galaxy S0-:</b>	
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Feb 01 2005 31"	17mmT4	MB,R,FNUC,MSB,R=G		
<b>IC 459</b>			<b>Galaxy C</b>	
Feb 01 2005 31"	17mmT4	VF,OVAL,NND,AV,R=F		
<b>IC 460</b>			<b>Galaxy</b>	
Feb 01 2005 31"	17mmT4	VF,MS,EL,NND,LSB,R=F		
<b>IC 461</b>			<b>Galaxy S</b>	
Feb 01 2005 31"	17mmT4	MF,OVAL,NND,R=F		
<b>IC 464</b>			<b>Galaxy E?</b>	
Feb 01 2005 31"	17mmT4	MB,S,EON,OVAL,NND,R=G		
<b>IC 465</b>			<b>Galaxy S?</b>	
Feb 01 2005 31"	17mmT4	MB,MS,EL,FNUC,MSB,R=G		
<b>IC 2166</b>			<b>Galaxy SAB(s)bc</b>	
Nov 10 2012 18"	7mm TV	DIFF,PF,PS,OVAL,UB,NND,R=F		
<b>MAC 0710+4956</b>			<b>Galaxy</b>	
Feb 01 2005 31"	17mmT4	VF,MS,R,NND,AV,R=F		
<b>MAC 0711+4949</b>			<b>Galaxy</b>	
Feb 01 2005 31"	17mmT4	MB,S,OVAL,NND,R=G		
<b>MAC 0711+5007</b>			<b>Galaxy</b>	
Feb 01 2005 31"	17mmT4	MF,S,EL,NND,R=F		
<b>NGC 2273</b>			<b>Galaxy SB(r)a:</b>	<b>F,S,IR,(R)</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,FNUC,R=F		
<b>NGC 2273B</b>			<b>Galaxy SB(rs)cd:</b>	
Nov 10 2012 18"	7mm TV	DIFF,VF,PS,OVAL,UB,NND,AV2,R=F		
<b>NGC 2315</b>			<b>Galaxy S0/a</b>	<b>EF</b>
Nov 10 2012 18"	7mm TV	PF,VS,EON,UB,NND,R=F,PA=45		
<b>NGC 2320</b>		<b>H861-2</b>	<b>Galaxy E</b>	<b>PB,S,IR,GBM,*8SP</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,FNUC,R=F		
<b>NGC 2321</b>			<b>Galaxy SBa</b>	<b>VF,12'N OF2320</b>
Nov 10 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,AV2,R=F		
<b>NGC 2322</b>		<b>H874-3</b>	<b>Galaxy SBa:</b>	<b>VF,VS,LE</b>



## Lynx - The Lynx

<b>NGC 2322</b> Nov 10 2012 18"	7mm TV	<b>H874-3</b> PF,VS,OVAL,VEXT,HSB,R=G	<b>Galaxy SBa:</b>	<b>VF,VS,LE</b>
<b>NGC 2326</b> Nov 10 2012 18"	7mm TV	<b>H734-2</b> PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SB(rs)b</b>	<b>VF,PL,IR,PSMBM,ST P</b>
<b>NGC 2326A</b> Nov 10 2012 18"	7mm TV	<b>H862-2</b> VF,VS,OVAL,UB,NND,AV2,R=F	<b>Galaxy SA(s)m:</b>	
<b>NGC 2332</b> Nov 10 2012 18"	7mm TV	<b>H862-2</b> PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy S0:</b>	<b>F,S,R,PSBM</b>
<b>NGC 2337</b> Nov 16 2012 18"	7mm TV	<b>H736-2</b> PF,PS,OVAL,UB,R=G	<b>Galaxy IBm</b>	<b>EF,S,E</b>
<b>NGC 2340</b> Nov 16 2012 18" Feb 01 2005 31"	7mm TV 17mmT4	<b>H736-2</b> PF,PS,OVAL,UB,NND,R=F MB,ML,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy E</b>	<b>PF,S,R,GLBM,R</b>
<b>NGC 2415</b> Mar 16 2010 12"	11mmT6	<b>H821-2</b> CF,CS,OVAL,UB,NND,R=F	<b>Galaxy Im?</b>	<b>PB,CS,R,VGVLBM,R,</b>
<b>NGC 2419</b> Feb 21 2020 36" Dec 04 2004 8"	17mmT4 7.5mmW	<b>H218-1</b> B,L,R=G OVAL,R=G	<b>Globular</b>	<b>PB,PL,LE90,VGBM,*4F</b>
<b>NGC 2426</b> Nov 10 2012 18"	7mm TV	<b>H822-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>CF,R,VGBM,R,*8P</b>
<b>NGC 2429A</b> Nov 10 2012 18" Feb 01 2005 31"	7mm TV 17mmT4	<b>H822-2</b> VF,VS,EON,UB,NND,R=F MB,EL,EON,FNUC,MSB,R=G	<b>Non-Existent</b>	
<b>NGC 2431</b> Feb 01 2005 31"	17mmT4	<b>H829-3</b> MB,EL,OVAL,NND,R=G	<b>Galaxy (R')SB(s)a:</b>	<b>EF,VS,R,BM</b>
<b>NGC 2446</b> Feb 01 2005 31"	17mmT4	<b>H829-3</b> MB,OVAL,PATCH,NND,R=G	<b>Galaxy Sb</b>	<b>F,AM4*</b>
<b>NGC 2456</b> Feb 01 2005 31"	17mmT4	<b>H829-3</b> MB,S,R,PATCH,NND,R=G	<b>Galaxy E</b>	<b>VF,R,VGBM</b>
<b>NGC 2457</b> Feb 01 2005 31"	17mmT4	<b>H829-3</b> VF,VS,OVAL,PATCH,NND,AV,R=F	<b>Galaxy Sbc</b>	<b>F,PL,R,2456SP</b>
<b>NGC 2458</b> Feb 01 2005 31"	17mmT4	<b>H829-3</b> VF,S,OVAL,NND,AV,R=F	<b>Galaxy</b>	<b>VF,*12CLOSE</b>

## Lynx - The Lynx

<b>NGC 2462</b>			<b>Galaxy</b>	<b>VF,VS,VLBM</b>
Feb 01 2005 31"	17mmT4	VF,OVAL,NND,AV,R=F		
<b>NGC 2463</b>			<b>Galaxy</b>	<b>EF,R</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,AV3,R=P		
<b>NGC 2468</b>			<b>Galaxy SA0:</b>	<b>F,R,BM</b>
Nov 10 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,R=F		
<b>NGC 2469</b>		<b>H836-3</b>	<b>Galaxy Sbc pec:</b>	<b>F,VS,R,*9SF</b>
Nov 10 2012 18"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
<b>NGC 2472</b>			<b>Galaxy Sb</b>	<b>2OF10NEB IN LINE</b>
Nov 10 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,R=F		
<b>NGC 2474</b>		<b>H830-3</b>	<b>Galaxy E0</b>	<b>F,PS,(E),(BMVS*)L*NF</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,R=F,PAIRED W/NGC-2475		
<b>NGC 2475</b>			<b>Galaxy E1</b>	<b>DNEB W/2474</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,R=F,PAIRED W/NGC-2474		
<b>NGC 2488</b>		<b>H837-3</b>	<b>Galaxy S0-:</b>	<b>VF,VS,R,GLBM</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2493</b>		<b>H750-3</b>	<b>Galaxy SB0</b>	<b>CB,S,R,SBM</b>
Mar 28 2011 12"	7mm TV	VF,PS,R,UB,NND,AV,R=F		
<b>NGC 2497</b>		<b>H838-3</b>	<b>Galaxy E?</b>	<b>EF,VS</b>
Nov 10 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F		
<b>NGC 2500</b>		<b>H709-3</b>	<b>Galaxy SB(rs)d</b>	<b>F,L,R,VGBM,R,AM ST</b>
Mar 28 2011 12"	5mm TV	VF,PS,R,UB,NND,R=F		
<b>NGC 2505</b>		<b>H839-3</b>	<b>Galaxy SBa</b>	<b>EF,VS</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F,PA=90		
<b>NGC 2518</b>			<b>Galaxy E-S0</b>	<b>2NEB,F,L,R,GBM</b>
Nov 10 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,AV1,R=F		
<b>NGC 2521</b>			<b>Galaxy SA0- pec?</b>	<b>PF,PL,R,PSBM,*9NP3'</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2534</b>		<b>H840-3</b>	<b>Galaxy E1? pec</b>	<b>PF,PL,R,PSBM,*8S</b>
Nov 10 2012 18"	7mm TV	PF,PS,R,FNUC,R=F		
<b>NGC 2537</b>		<b>H55-4</b>	<b>Galaxy SB(s)m pec</b>	<b>GCL,PB,PL,R,RRR,ST20</b>
Dec 04 2004 8"	7.5mmW	MF,R,NND,AV,R=F		

## Lynx - The Lynx

<b>NGC 2541</b>		<b>H710-3</b>	<b>Galaxy SA(s)cd</b>	<b>F,L,E,VGBM</b>
Mar 28 2011 12"	11mmT6	DIFF,PF,PS,OVAL,MEXT,UB,NND,R=G		
<b>NGC 2549</b>			<b>Galaxy SA(r)0<sup>^</sup> sp</b>	<b>PB,S,ME0,PSMBM</b>
Nov 10 2012 18"	7mm TV	F,PS,EON,BNUC,R=F,PA=60		
<b>NGC 2552</b>		<b>H711-3</b>	<b>Galaxy SA(s)m?</b>	<b>EF,CL,LE45</b>
Nov 10 2012 18"	7mm TV	DIFF,PF,S,OVAL,UB,NND,R=F		
<b>NGC 2683</b>		<b>H200-1</b>	<b>Galaxy SA(rs)b</b>	<b>VB,VL,VME39,GMBM</b>
Mar 13 2007 8"	11mmT6	PB,PL,EON,FNUC,R=G		
<b>NGC 2782</b>		<b>H167-1</b>	<b>Galaxy SAB(rs)a pec</b>	<b>CB,R,MBMBN</b>
Mar 13 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>PGC 20308</b>			<b>Galaxy L</b>	
Feb 01 2005 31"	17mmT4	MF,MS,OVAL,FNUC,R=G		
<b>PGC 20327</b>			<b>Galaxy C</b>	
Feb 01 2005 31"	17mmT4	VF,OVAL,NND,AV,R=F		
<b>PGC 20364</b>			<b>Galaxy S0-</b>	
Feb 01 2005 31"	17mmT4	MB,ML,EL,FNUC,MSB,R=G		
<b>PGC 21475</b>			<b>Galaxy Scd:</b>	
Feb 20 2006 31"	17mmT4	VF,MS,OVAL,PATCHY,NND,R=F		
<b>PGC 21635</b>			<b>Galaxy S</b>	
Feb 01 2005 31"	17mmT4	MF,ML,OVAL,PATCH,NND,R=F		
<b>PGC 21650</b>			<b>Galaxy</b>	
Feb 01 2005 31"	17mmT4	VS,R,NND,R=F		
<b>PGC 22161</b>			<b>Galaxy D</b>	
Feb 01 2005 31"	17mmT4	VF,VS,OVAL,PATCH,NND,AV,R=F		
<b>PGC 22172</b>			<b>Galaxy S</b>	
Feb 01 2005 31"	17mmT4	VF,VS,EL,EON,NND,R=F		
<b>PGC 22175</b>			<b>Galaxy S pec</b>	
Feb 01 2005 31"	17mmT4	MB,ML,EL,OVAL,UB,R=G		
<b>PGC 22373</b>			<b>Galaxy E</b>	
Feb 20 2006 31"	17mmT4	MB,ML,OVAL,FNUC,MSB,R=F		
<b>PGC 22376</b>			<b>Galaxy S0</b>	
Feb 20 2006 31"	17mmT4	MB,MS,OVAL,NND,R=F		

## Lynx - The Lynx

**PGC 22533** **Galaxy S0/a**  
Nov 10 2012 18" 7mm TV PF,VS,EON,UB,NND,R=F,PA=50

**PGC 22890** **Galaxy Sab**  
Nov 10 2012 18" 7mm TV VF,VS,EON,UB,NND,R=F,PA=40

**PGC 22891** **Galaxy E/S0**  
Nov 10 2012 18" 7mm TV VF,VS,R,UB,NND,R=F

**PGC 22906** **Galaxy E**  
Nov 10 2012 18" 7mm TV VF,VS,OVAL,UB,AV1,R=F

**PGC 22914** **Galaxy S?**  
Nov 10 2012 18" 7mm TV VF,VS,R,UB,NND,AV,R=F

## Lyra - The Harp

<b>IC 1288</b>		<b>Galaxy SBa</b>	
Aug 16 2009 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>IC 1289</b>		<b>Galaxy S</b>	
Aug 16 2009 31"	17mmT4	CF,S,R,UB,NND,R=F	
<b>IC 1296</b>		<b>Galaxy SBbc</b>	
Aug 16 2009 31"	17mmT4	VF,S,EL,OVAL,NND,AV,R=F	
<b>IC 4772</b>		<b>Galaxy C</b>	
Aug 16 2009 31"	17mmT4	VF,S,OVAL,UB,NND,R=F	
<b>MAC 1828+3344</b>		<b>Galaxy</b>	
Aug 16 2009 31"	17mmT4	PF,CS,R,UB,NND,R=F	
<b>MAC 1828+3413</b>		<b>Galaxy</b>	
Aug 16 2009 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1830+3403</b>		<b>Galaxy</b>	
Aug 16 2009 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 6606</b>		<b>Galaxy S</b>	<b>VF,S,R,GBM,VF*INV</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,FNUC,HISB,R=G	
<b>NGC 6612</b>		<b>Galaxy C</b>	<b>EEF,ES,R,VDIFFIC</b>
Aug 16 2009 31"	17mmT4	PF,CS,R,FNUC,R=F	
<b>NGC 6640</b>		<b>Galaxy Scd:</b>	<b>VF,S,R,VLBM</b>
Aug 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 6646</b>	<b>H907-2</b>	<b>Galaxy Sa</b>	<b>F,S,IF</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=G	
<b>NGC 6657</b>		<b>Galaxy SB</b>	<b>VF,VS,SBM</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,FNUC,R=G	
<b>NGC 6662</b>		<b>Galaxy SBab?</b>	<b>F*IN VF,VS,LE NEBY</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 6663</b>		<b>Galaxy SAB(r)cd:</b>	<b>EEF,PS,R,VDIFFIC</b>
Aug 16 2009 31"	17mmT4	CF,PS,R,NND,R=F	
<b>NGC 6665</b>		<b>Galaxy Sc</b>	<b>VF,VS</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 6671</b>		<b>Galaxy S</b>	<b>VF,VS,R,MBM</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F	

## Lyra - The Harp

<b>NGC 6675</b>			<b>Galaxy Sbc</b>	<b>VF,E,45"</b>
Aug 16 2009 31"	17mmT4	DIFF,PF,PS,OVAL,UB,NND,R=F		
<b>NGC 6685</b>			<b>Galaxy S0-:</b>	<b>EEF,VS,R,VDIFFI,SP-2</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,FNUC,R=G		
<b>NGC 6686</b>			<b>Galaxy C</b>	<b>EEF,ES,R,VDIFFI,NF-2</b>
Aug 16 2009 31"	17mmT4	CF,CS,R,UB,NND,R=F		
<b>NGC 6688</b>			<b>Galaxy SA0+</b>	<b>F,PS,R,BM</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,BNUC,HISB,R=G		
<b>NGC 6692</b>			<b>Galaxy E/S0</b>	<b>VF,VS,IRRE,SEVVF*INV</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 6695</b>			<b>Galaxy SBb</b>	<b>VF,S,IRRE,NS,VLBM</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 6700</b>			<b>Galaxy SB(rs)c</b>	<b>EF,LE,DIF,IR</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 6702</b>			<b>Galaxy E:</b>	<b>PF,S,LE</b>
Jun 30 2008 16"	17mmT4	PF,PS,R,NND,R=F		
<b>NGC 6703</b>			<b>Galaxy SA0-</b>	<b>B,S,R,MBM</b>
May 18 2014 18"	8mm Ds	F,PS,R,FNUC,R=G,SOME SPIRAL STRUCTURE NOTED.		
Jun 30 2008 16"	17mmT4	B,PS,OVAL,NND,R=F		
<b>NGC 6710</b>			<b>Galaxy SA0+?</b>	<b>VF,S,R,BM</b>
Jun 30 2008 16"	17mmT4	PF,PS,OVAL,ND,R=F		
<b>NGC 6713</b>			<b>Galaxy Pec</b>	<b>VF,S,R,BM</b>
Aug 16 2009 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 6720</b>	<b>M57</b>		<b>Planetary Neb 4+3</b>	<b>RINGNEB,B,PL,CE,LYRA</b>
Jul 26 2020 12"	17mmT4	NV+IR685 FILTER. INVISIBLE NO MATTER WHAT FILTER I USED.		
Jun 19 2020 12"	8mm Et	GOOD		
Jun 28 2019 12"	17mmT4	NICE VIEW WITH FILTER AND W/O.		
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		

## Lyra - The Harp

<b>NGC 6720</b>	<b>M57</b>	<b>Planetary Neb 4+3</b>	<b>RINGNEB,B,PL,CE,LYRA</b>
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 6740</b>		<b>Galaxy S</b>	<b>EEF,S</b>
Aug 16 2009 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>NGC 6745</b>		<b>Galaxy Sm</b>	<b>VF,LE NS</b>
Sep 01 2011 31"	17mmT4	PF,PS,OVAL,PEXT,FNUC,R=G,PA=100	
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 6765</b>		<b>Planetary Neb 5</b>	<b>F,S,E</b>
Jun 30 2008 16"	11mmT6	VF,PS,R,NO CENTRAL STAR,R=F	
<b>NGC 6779</b>	<b>M56</b>	<b>Globular</b>	<b>GCL,B,L,IR,GVMCM,RRR</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 6791</b>		<b>Open Cluster 15.0 I 2 r</b>	<b>VF</b>
Aug 16 2009 31"	17mmT4	PB,PL,R=G,TIGHT GROUP	
<b>NGC 6792</b>		<b>Galaxy SBb</b>	<b>F,E26,GLBM,*9.5SF</b>
Aug 16 2009 31"	17mmT4	PF,PS,EL,OVAL,UB,FNUC,R=G	
<b>PGC 61919</b>		<b>Galaxy S</b>	
Aug 16 2009 31"	17mmT4	VF,VS,OVAL,UB,AV,R=F	
<b>PGC 61939</b>		<b>Galaxy</b>	
Aug 16 2009 31"	17mmT4	VF,VS,R,NND,R=F	

## Lyra - The Harp

<b>PGC 61966</b>		<b>Galaxy SBa</b>
Aug 16 2009 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F
<b>PGC 61991</b>		<b>Galaxy S?</b>
Aug 16 2009 31"	17mmT4	PB,PS,R,BNUC,HISB,R=G
<b>PGC 62043</b>		<b>Galaxy S0</b>
Aug 24 2012 18"	5mm TV	VF,VS,OVAL,EEXT,UB,NND,R=F, AKA/UGC-11278
<b>PGC 62080</b>		<b>Galaxy SB</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,FNUC,R=F
<b>PGC 62104</b>		<b>Galaxy Sd:</b>
Aug 16 2009 31"	17mmT4	PF,PS,EON,UB,NND,R=F
<b>PGC 62522</b>		<b>Galaxy S</b>
Aug 13 2007 31"	31mmT5	VF,VS,EON,NND,AV,R=F
<b>PGC 62556</b>		<b>Galaxy</b>
Sep 01 2011 31"	17mmT4	VF,VS,OVAL,UB,NND,AV3,R=P
<b>PGC 62559</b>		<b>Galaxy S</b>
Sep 01 2011 31"	17mmT4	F,CS,R,UB,NND,R=F,DV
<b>PGC 62560</b>		<b>Galaxy</b>
Sep 01 2011 31"	17mmT4	VF,ES,OVAL,UB,NND,AV2,R=F
<b>PGC 62595</b>		<b>Galaxy Sab</b>
Sep 01 2011 31"	17mmT4	PF,PS,OVAL,MEXT,UB,NND,R=F
<b>PGC 62606</b>		<b>Galaxy</b>
Sep 01 2011 31"	17mmT4	VF,VS,R,UB,NND,AV2,R=P
<b>PGC 62613</b>		<b>Galaxy E?</b>
Sep 01 2011 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F,DV
<b>PGC 62664</b>		<b>Galaxy</b>
Sep 01 2011 31"	17mmT4	CF,VS,OVAL,NND,R=P, PAIRED W/PGC-62665
<b>PGC 62665</b>		<b>Galaxy S</b>
Sep 01 2011 31"	17mmT4	CF,VS,R,UB,NND,R=F, PAIRED W/PGC-62664
<b>PGC 62702</b>		<b>Galaxy Scd:</b>
Sep 01 2011 31"	17mmT4	DIFF,CF,PS,OVAL,MEXT,UB,NND,AV,R=F
<b>PGC 63101</b>		<b>Galaxy SA(s)c</b>
Aug 16 2009 31"	17mmT4	CF,CS,R,UB,NND,R=F



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<b>IC 446</b>			<b>Nebula bipolar</b>	
Dec 15 2004 8"	11mmT6	F,PATCH,R-F		
<b>IC 2172</b>			<b>Non-Existent</b>	
Nov 25 2006 8"	11mmT6	F,S,R-F		
<b>NGC 2170</b>		<b>H19-4</b>	<b>Nebula R</b>	<b>*9 INV,PL,NEB,E170</b>
Mar 28 2011 12"	17mmAT	SMALL, FAINT,IRREGULAR,R=F, OIII FILTER		
<b>NGC 2182</b>		<b>H38-4</b>	<b>Nebula R</b>	<b>PB**,L*NEB,E90</b>
Mar 28 2011 12"	11mmT6	VF,VS,IRREGULAR,R=F, OIII		
<b>NGC 2183</b>			<b>Nebula R</b>	<b>EF,S,LE,*11,12SP</b>
Mar 13 2007 8"	11mmT6	PF,PS,R=F,HINT OF NEBULOSITY		
<b>NGC 2185</b>		<b>H20-4</b>	<b>Nebula R</b>	<b>*11\$4S*IN VF,L,NEB</b>
Mar 13 2007 8"	11mmT6	PF,PS,R=F,HINT OF NEBULOSITY		
<b>NGC 2215</b>		<b>H20-7</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,CL,PRI,PC,ST11.15</b>
Mar 29 2006 8"	19mmW	F,S,R=F		
<b>NGC 2232</b>		<b>H25-8</b>	<b>Open Cluster 5.0 III 2 p</b>	<b>B* 10MON +CL</b>
Mar 13 2007 8"	19mmW	PB,PL,R=F,LOOSE GROUP		
Mar 08 2007 1.9"	12x50	FB,S,LOOSE,R=F		
Mar 09 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
<b>NGC 2236</b>		<b>H5-7</b>	<b>Open Cluster 12.0 II 2 m</b>	<b>CL,PRI,PC,*10,12..15</b>
Nov 25 2006 8"	11mmT6	CB,CL,LOOSE,R=F		
<b>NGC 2237</b>			<b>Nebula E</b>	<b>PB,VVL,DIF,(2238)</b>
Feb 10 2005 8"	11mmT6	VB,VL,R=G		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2244</b>		<b>H2-7</b>	<b>Open Cluster 7.0 II 3 r n</b>	<b>CL,BEAUTIFUL,STSC</b>
Mar 08 2007 1.9"	12x50	PB,S,VFAINT NEBULOSITY,R=F		
Feb 10 2005 8"	11mmT6	VB,VL,R=G		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2245</b>		<b>H3-4</b>	<b>Nebula R</b>	<b>PL,COM,MBN SFALM*</b>
Mar 28 2011 12"	11mmT6	PF,VS,R=F,OIII		
<b>NGC 2250</b>			<b>Open Cluster 8.7 IV 2 p</b>	<b>CL,PRI,LC,IF,*812.14</b>
Nov 25 2006 8"	11mmT6	B,L,LOOSE,R=F		
<b>NGC 2251</b>		<b>H3-8</b>	<b>Open Cluster 9.1 III 2 m</b>	<b>CL,VL,E,RI,LC</b>
Nov 04 2007 1.9"	12x50	F,S,R=F		
Mar 29 2006 8"	19mmW	B,L,R=F		

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<b>NGC 2252</b>		<b>H50-8</b>	<b>Open Cluster 9.0 III 2 m n</b>	<b>CL,VL,PRI,LC,STS</b>
Apr 09 2008 8"	11mmT6	PB,L,R=G		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2254</b>		<b>H22-7</b>	<b>Open Cluster 12.0 I 1 m</b>	<b>CL,S,PC,IF,*11...13</b>
Nov 25 2006 8"	11mmT6	VF,PS,LOOSE,R=F		
<b>NGC 2259</b>		<b>H28-6</b>	<b>Open Cluster 14.0 II 1 p n</b>	<b>CL,CRI,EC,IF,ST ES</b>
Nov 25 2006 8"	11mmT6	CB,S,LOSE,R=F		
<b>NGC 2261</b>		<b>H2-4</b>	<b>Nebula E+R</b>	<b>B,VME330,N COM=*11</b>
Mar 28 2011 12"	11mmT6	VF,VS,R=F,OIII		
<b>NGC 2262</b>		<b>H37-7</b>	<b>Open Cluster II 1 m</b>	<b>CL,VC,IR,BM,ST ES</b>
Nov 25 2006 8"	11mmT6	F,PS,R=F		
<b>NGC 2264</b>		<b>H5-8</b>	<b>Open Cluster 5.0 III 3 m n</b>	<b>15MON,CL,**,(NEB)</b>
Mar 13 2007 8"	19mmW	PB,PL,R-G		
Mar 08 2007 1.9"	12x50	PB,S,R=F		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 09 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
<b>NGC 2269</b>		<b>H3-6</b>	<b>Open Cluster 10.0 II 1 p</b>	<b>CL,VMC,NOT RI,ST VS</b>
Nov 25 2006 8"	11mmT6	F,PS,R=F		
<b>NGC 2282</b>			<b>Nebula R</b>	<b>*10IN F,R,NEBY</b>
Nov 25 2006 8"	11mmT6	F,S,R=F,SOMENEBULA		
<b>NGC 2286</b>		<b>H31-8</b>	<b>Open Cluster 9.0 III 2 m</b>	<b>CL,L,C,AB100*9...15</b>
Mar 29 2006 8"	19mmW	B,L,R=F		
<b>NGC 2301</b>		<b>H27-6</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,RI,L,IF,ST L\$\$</b>
Mar 08 2007 1.9"	12x50	PB,S,COMPRESSED,R=F		
Mar 29 2006 8"	19mmW	PB,L,R=G		
<b>NGC 2302</b>		<b>H39-8</b>	<b>Open Cluster 12.0 III 2 m</b>	<b>CL,L,P,LC</b>
Apr 09 2008 8"	11mmT6	B,S,SPARSE,R=F		
<b>NGC 2309</b>		<b>H18-6</b>	<b>Open Cluster 13.0 I 2 m</b>	<b>CL,PL,PRI,MC,ST13</b>
Nov 25 2006 8"	11mmT6	F,PS,R=F,COMPRESSED		
<b>NGC 2311</b>		<b>H60-8</b>	<b>Open Cluster 12.0 III 2 m</b>	<b>CL,LC,NOT RI</b>
Mar 29 2006 8"	19mmW	N.S.R=F		
<b>NGC 2316</b>		<b>H304-2</b>	<b>Nebula E+R</b>	<b>PF,S,R,R,S ST INV</b>
Mar 28 2011 12"	11mmT6	PF,VS,R=F,OIII		

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<b>NGC 2323</b>	<b>M50</b>		<b>Open Cluster 9.0 II 3 r</b>	<b>CL,VL,RI,PC,E,</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		
<b>NGC 2324</b>		<b>H38-7</b>	<b>Open Cluster 12.0 II 2 r</b>	<b>CL,L,RI,CC,ST12...16</b>
Nov 25 2006 8"	11mmT6	F,SMALL-COMPRESSED,R=G		
<b>NGC 2335</b>		<b>H32-8</b>	<b>Open Cluster 10.0 III 2 m n</b>	<b>CL,L,LC</b>
Mar 29 2006 8"	19mmW	F,PS,R=F		
<b>NGC 2343</b>		<b>H33-8</b>	<b>Open Cluster 8.0 II 2 p n</b>	<b>CL,CL,P,LC</b>
Mar 29 2006 8"	19mmW	F,PS,R=F		
<b>NGC 2346</b>		<b>H65-4</b>	<b>Planetary Neb 3b+4</b>	<b>*10AFF W/ S,VF,NEB</b>
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
Apr 09 2008 8"	11mmT6	PF,PS,NO CENTRAL STAR,R=F		
<b>NGC 2353</b>		<b>H34-8</b>	<b>Open Cluster 9.0 III 3 p</b>	<b>CL,L,LC,ONEVB*</b>
Mar 29 2006 8"	19mmW	SMALLER, BRIGHTER,L,R=G		
<b>NGC 2368</b>			<b>Open Cluster IV 1 p</b>	<b>CL,S,PRI,ST15</b>
Nov 25 2006 8"	11mmT6	F,S,LOOSER,R=F		
Nov 25 2006 8"	11mmT6	F,S,LOOSER,R=F		
<b>NGC 2506</b>		<b>H37-6</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,PL,VRI,C,*11...20</b>
Mar 29 2006 8"	19mmW	PF,PS,R=F, NICE GROUP		
<b>PGC 20274</b>			<b>Galaxy IAB(s)m</b>	
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=G		

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<b>CR 331</b>			<b>Open Cluster II 1m</b>	
Jul 31 2005	8"	11mmT6	MF,FS,OVAL SHAPE, R=F, LOOSE GROUPING	
<b>CR 350</b>			<b>Open Cluster IV1p</b>	
Aug 02 2019	12"	7mm TV	LARGE AND LOOSE, FAINT MEMBERS,R=F	
Jul 21 2007	1.9"	12x50	PB,VL,NICE CLUSTER,R=G	
Jul 03 2005	8"	19mmW	VB,ML,R=F, LOOSE GROUPING	
<b>HP 1</b>			<b>Globular</b>	
Jul 23 2016	12"	8mm Et	VF,VS,R=P.	
Jul 13 2007	8"	7.5mmW	VF,VS,R,PATCHY,R=F	
<b>IC 1257</b>			<b>Globular</b>	
Jun 19 2020	12"	8mm Et	FAIR	
Aug 02 2019	12"	7mm TV	VF,VS,R=P	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
<b>IC 4603</b>			<b>Nebula R</b>	
Aug 24 2019	12"	17mmT4	PF,S,R=F. OIII. LP2 NOT MUCH HELP	
<b>IC 4604</b>			<b>Nebula R</b>	
Aug 24 2019	12"	17mmT4	PF,S,R=F. OIII. LP2 NOT MUCH HELP.	
Jul 21 2007	1.9"	12x50	PF,PS,AV,JUST DETECTED,R=F	
<b>IC 4634</b>			<b>Planetary Neb 2a+3</b>	
Jul 31 2005	8"	7.5mmW	VVF,VS,AV,R=F	
<b>IC 4665</b>			<b>Open Cluster 6.0 III 2 m</b>	
Jun 17 2016	12"	8mm Ds	WIDE/OPEN CLUSTER	
Oct 08 2006	1.9"	12x50	B,PL,R=G, LOOSE GROUPING	
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 6171</b>	<b>M107</b>	<b>H40-6</b>	<b>Globular</b>	<b>GCL,L,VRI,VMC,R,RRR</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 6218</b>	<b>M12</b>		<b>Globular</b>	<b>GCL,VB,VL,IR,GMBM</b>
May 31 2019	12"	11mmT6	NICE	
Jul 08 2018	12"	17mmT4	B,S,R=E	
Jul 02 2017	12"	17mmT4	NOT AS BRIGHT AS M 10.	
Jul 15 2015	12"	17mmT4		

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<b>NGC 6218</b>	<b>M12</b>	<b>Globular</b>	<b>GCL,VB,VL,IR,GMBM</b>
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 6235</b>	<b>H584-2</b>	<b>Globular</b>	<b>PB,CL,IR,RRR,*14..16</b>
Jun 19 2020 12"	8mm Et	GOOD	
Aug 02 2019 12"	7mm TV	PF,PS,R=F. ALMOST BLOTTED OUT BY JUPITER	
Jul 15 2006 8"	19mmW	CF,PS,R-F,LITTLE BRIGHTER, DIM STARS	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6240</b>		<b>Galaxy I0: pec</b>	<b>VF,PL,LE,DIF</b>
Jul 03 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 6254</b>	<b>M10</b>	<b>Globular</b>	<b>GCL,B,VL,R,GVMBM,RRR</b>
May 31 2019 12"	11mmT6	NICE	
Jul 08 2018 12"	17mmT4	B,S,R=E	
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	
<b>NGC 6266</b>	<b>M62</b>	<b>Globular</b>	<b>GCL,VB,L,GMBM,RRR,</b>
Jun 19 2020 12"	8mm Et	GOOD. SQM: 20.06. TEMP: 62 DEGREES AT 0000HRS.	
Aug 02 2019 12"	7mm TV	BB,S,R=E. NICE GLOBULAR	
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	

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<b>NGC 6273</b>	<b>M19</b>	<b>Globular</b>	<b>GCL,VB,L,R,VCM,RRR</b>
Jun 19 2020 12"	8mm Et	GOOD	
Jul 08 2018 12"	17mmT4	B,S,R=E	
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 6284</b>	<b>H11-6</b>	<b>Globular</b>	<b>GCL,B,L,R,CM,ST16...</b>
Jun 19 2020 12"	13mmHV	B,S,R=G	
Jul 02 2017 12"	17mmT4	PF,PS,R=F. SMUDGE	
May 30 2016 12"	8mm Ds	VF,PS,R=F	
Jul 15 2006 8"	19mmW	PF,PS,R=F	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
<b>NGC 6287</b>	<b>H195-2</b>	<b>Globular</b>	<b>GCL,CB,L,R,GPMCM,RRR</b>
Jun 19 2020 12"	13mmHV	F,S,R=G	
May 30 2016 12"	8mm Ds	VF,PS,R=F	
Jul 15 2015 12"	8mm Ds		
Jul 15 2006 8"	19mmW	CF,PS,R=F, DIM SMUDGE, NO STARS	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6293</b>	<b>H12-6</b>	<b>Globular</b>	<b>GCL,VB,L,R,PSBM,ST16</b>
Jun 19 2020 12"	13mmHV	F,S,R=F	
Jul 01 2016 12"	7mm TV	F,S,R=F,RESOLVE OUTER STARS	
Jul 15 2015 12"	8mm Ds		
Jul 15 2006 8"	19mmW	PF,PS,R=F,FAINT STARS	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6304</b>	<b>H147-1</b>	<b>Globular</b>	<b>GCL,B,CL,R,LBM,RRR</b>
Jun 19 2020 12"	13mmHV	F,S,R=F	
Jul 01 2016 12"	7mm TV	F,S,R=F,RESOLVE OUTER STARS	
Jul 15 2006 8"	19mmW	CF,PS,R=F,TIGHT SMUDGE, NO STARS	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6309</b>		<b>Planetary Neb 3b+6</b>	<b>B,S,BET2*VNR</b>
Jun 19 2020 12"	8mm Et	EXCELLENT LP2 FILTER	
Aug 24 2019 12"	8mm Et	F,S,OBLONG IN SHAPE. OIII.	
Jul 03 2005 8"	11mmT6	MF,MS,PATCHY,R=F	
<b>NGC 6316</b>	<b>H45-1</b>	<b>Globular</b>	<b>GCL,CB,PS,R,GVMBM</b>
Jun 19 2020 12"	13mmHV	PF,PS,R=F	

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<b>NGC 6316</b>		<b>H45-1</b>	<b>Globular</b>	<b>GCL,CB,PS,R,GVMBM</b>
Jul 01 2016	12"	7mm TV	F,PS,R=F	
Jul 15 2006	8"	19mmW	F,PS,R=F, LOOSE SMUDGE, NO STARS	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6325</b>			<b>Globular</b>	<b>PF,L,R,RR</b>
Jun 19 2020	12"	13mmHV	VF,PS,R=P	
Jul 01 2016	12"	7mm TV	VF,PS,R=F	
May 19 2010	12"	9mm	VF,VS,AV,R=F, FAINT SMUDGE, NO STARTS TO RESOLVE.	
Jul 31 2005	8"	7.5mmW	VF,VS,R,LOWSB,AV,R=F	
<b>NGC 6333</b>		<b>M9</b>	<b>Globular</b>	<b>GCL,B,L,R,ECM,RRR,</b>
Jun 19 2020	12"	13mmHV	B,L,R=E	
Jul 08 2018	12"	17mmT4	B,L,MR=E	
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 6342</b>		<b>H149-1</b>	<b>Globular</b>	<b>CB,PS,LE,ER</b>
Jun 19 2020	12"	8mm Et	GOOD	
Jul 01 2016	12"	7mm TV	PF,PS,R=F	
Jul 15 2006	8"	19mmW	VF,PS,R=F, DIM, UNRESOLVED.	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6355</b>		<b>H46-1</b>	<b>Globular</b>	<b>CF,L,R,GBM,RRR</b>
Jun 19 2020	12"	8mm Et	GOOD	
Jul 23 2016	12"	8mm Et	PF,PS,R=F. DID NOT RESOLVE.	
Jul 15 2006	8"	19mmW	EF,S,AV,R=F	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6356</b>		<b>H48-1</b>	<b>Globular</b>	<b>GCL,VB,CL,VGVMBM,RRR</b>
Jun 19 2020	12"	13mmHV	B,S,R=G	
Jul 23 2016	12"	8mm Et	F,S,R=F. DID NOT RESOLVE	
Jul 21 2007	1.9"	12x50	PF,S,PATCH,R=F	
Jul 15 2006	8"	19mmW	PB,PS,R=G, DIM STARS	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6366</b>			<b>Globular</b>	<b>F,L,VLBM</b>
Jun 19 2020	12"	8mm Et	FAIR	
Jul 23 2016	12"	8mm Et	VF,L,R=P. DID NOT RESOLVE.	

## Ophiuchus - The Serpant Bearer

<b>NGC 6366</b>		<b>Globular</b>	<b>F,L,VLBM</b>
Jul 21 2007	1.9" 12x50	PF,PS,AV,R=F	
Aug 16 2006	1.9" 12x50	PF,PS,R=F	
Jul 15 2006	8" 19mmW	EF,PS,AV,R=F	
Jul 08 2004	8" 25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6368</b>		<b>Galaxy Sb</b>	<b>F,S,E</b>
Jul 03 2005	8" 11mmT6	VF,VS,EON,NND,AV,R=F	
<b>NGC 6369</b>		<b>H11-4 Planetary Neb 4+2</b>	<b>RINGNEB,PB,S,R</b>
Jun 19 2020	12" 8mm Et	PRETTY NICE, OIII FILTER	
Jul 07 2018	12" 8mm Et	PF,S,R=G. OIII FILTER	
Jul 09 2005	8" 11mmT6	MB,MS,R,R=G	
<b>NGC 6384</b>		<b>Galaxy SAB(r)bc</b>	<b>PB,S,VLE</b>
Aug 24 2019	12" 8mm Et	F,PS,OVAL,MEXT,NND,R=G	
Jul 03 2005	8" 11mmT6	VF,ML,OVAL,NND,AV,R=F	
<b>NGC 6401</b>		<b>H44-1 Globular</b>	<b>PB,PL,R,*12F INV</b>
Jun 19 2020	12" 13mmHV	F,L,R=G	
Jul 01 2019	12" 11mmT6	PF,S,R=F.	
Jul 15 2006	8" 19mmW	EF,CS,R=F,VERY DIM SMUDGE	
Jun 19 2004	8" 25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6402</b>		<b>M14 Globular</b>	<b>GCL,B,VL,R,ERI,VGMBM</b>
Jun 19 2020	12" 13mmHV	B,L,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" 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 6426</b>		<b>H587-2 Globular</b>	<b>VF,CL,E,VLBM</b>
Sep 19 2014	12" 17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jul 09 2005	8" 11mmT6	VF,VS,R=F	
<b>NGC 6509</b>		<b>Galaxy Sd</b>	<b>VF,PL,IRRR,LBM</b>
Jul 31 2005	8" 11mmT6	VF,VS,OVAL,NND,R=F	
<b>NGC 6517</b>		<b>H199-2 Globular</b>	<b>PB,PL,R,RR</b>
Jun 24 2020	12" 8mm Et	PF,PS,R=F	
Jul 01 2019	12" 11mmT6	PF,S,R=F	
Jul 09 2005	8" 11mmT6	MF,ML,R=F	
Jul 03 2005	8" 11mmT6	VF,VS,AV,R=F	



## Ophiuchus - The Serpant Bearer

<b>NGC 6570</b>			<b>Galaxy SB(rs)m:</b>	<b>PF,PL,R</b>
Jul 31 2005	8"	11mmT6	MB,VS,EL,FNUC,MSB,R=F	
<b>NGC 6572</b>			<b>Planetary Neb 2a</b>	<b>PLN,VB,VS,R,LHAZY</b>
Jul 07 2018	12"	8mm Et	PB,PS,R=E. OIII FILTER	
Jul 23 2006	8"	7.5mmW	CB,CS,R,R=G	
Jul 31 2005	8"	11mmT6	VB,VS,R,R=F	
<b>NGC 6633</b>			<b>H72-8</b>	<b>Open Cluster 8.0 III 2 m</b>
Jul 02 2017	12"	17mmT4	LOOSE CLUMP	<b>CL,LC,ST L</b>
Oct 08 2006	1.9"	12x50	N.F.:R=G, DENSER GROUP	
Jul 15 2006	8"	32mmUV	VB,VL,LOOSE CLUSTER	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>PAL 6</b>			<b>Globular</b>	
Sep 02 2019	12"	11mmT6	VF,PS,AV4,R=P	
Jul 13 2007	8"	7.5mmW	VF,VS,R,PATCHY,AV,R=F	
<b>PGC 60346</b>			<b>Galaxy SB(rs)c</b>	
Jul 31 2011	12"	5mm TV	F,CS,MR,UB,NND,AV2,R=P	
Jul 03 2005	8"	11mmT6	MB,MS,R,FNUC,R=G	
<b>PGC 61214</b>			<b>Galaxy Sd:</b>	
Jul 31 2011	12"	5mm TV	VF,CS,OVAL,MEXT,UB,NND,AV1,R=F	
<b>PGC 61300</b>			<b>Galaxy Scd:</b>	
Jul 31 2011	12"	5mm TV	F,CS,EON,UB,NND,R=F	
<b>TR 26</b>			<b>Open Cluster</b>	
Aug 02 2019	12"	7mm TV	PF,PS,LOOSE,R=F	

## Orion - The Hunter

<b>B</b>	<b>33</b>		<b>Nebula Ir</b>	
	Dec 12 2012	36"	31mmT5	OUTSTANDING OBJECT W/HYDROGEN-BETA FILTER.AND VERY GOOD TRANSPARENCY.
	Dec 28 2008	31"	17mmT4	MB,VL,R=E!!!, HYDROGEN BETA FILTER.
	Dec 19 2006	31"	31mmT5	PB,VL,R=E!!!, H.BETA FILTER
	Nov 21 2006	8"	11mmT6	VF,L,AV,JUST A HINT OF THE HORSEHEAD
	Feb 20 2006	31"	31mmT5	MB,VL,R=E!!!, HYDROGEN BETA FILTER.
	Dec 07 2005	31"	31mmT5	VDARK,LIGHTBACKGROUND, AWESOME!
<b>IC</b>	<b>420</b>			<b>Nebula R</b>
	Feb 20 2006	31"	31mmT5	F,VS,R=F. OIII
<b>IC</b>	<b>424</b>			<b>Nebula R</b>
	Feb 20 2006	31"	31mmT5	VF,VS,R=F, OIII
<b>IC</b>	<b>426</b>			<b>Nebula R</b>
	Feb 20 2006	31"	31mmT5	MB.ML,R=F, OIII
<b>IC</b>	<b>431</b>			<b>Nebula R</b>
	Jan 24 2009	31"	17mmT4	PF,PS, HINT OF NEBULOSITY,R=F
	Nov 21 2006	8"	11mmT6	PF,S,R=F
<b>IC</b>	<b>432</b>			<b>Nebula R</b>
	Jan 24 2009	31"	17mmT4	PF,PS, HINT OF NEBULOSITY,R=F
	Nov 21 2006	8"	11mmT6	F,L,R=F
<b>IC</b>	<b>434</b>			<b>Nebula E</b>
	Nov 21 2006	8"	11mmT6	PF,VL,R=F
<b>IC</b>	<b>435</b>			<b>Nebula R</b>
	Jan 24 2009	31"	17mmT4	PF,PS, HINT OF NEBULOSITY,R=F
<b>J</b>	<b>320</b>			<b>Planetary Neb 2+4</b>
	Dec 28 2008	31"	17mmT4	F,VS,OVAL,R=F, NO CENTRAL STAR
	Dec 15 2004	8"	7.5mmW	VF,R=F
<b>MAC</b>	<b>0447-0208</b>			<b>Galaxy</b>
	Feb 03 2005	31"	11mmT6	MF,MS,EL,FNUC,R=F
<b>MAC</b>	<b>0448-0134</b>			<b>Galaxy</b>
	Feb 03 2005	31"	11mmT6	MF,VS,OVAL,FNUC,R=G
	Feb 03 2005	31"	11mmT6	MF,VS,OVAL,FNUC,R=G
<b>MCG</b>	<b>+1-14-37</b>			<b>Galaxy</b>
	Sep 23 2004	8"	7.5mmW	B,OVAL,FNUC,R=G
<b>NGC</b>	<b>1661</b>			<b>Galaxy SA(s)bc pec:</b>
	Feb 03 2005	31"	11mmT6	VF,MS,EL,OVAL,PATCH,NND,R=F
				<b>VF,VS,BM</b>

## Orion - The Hunter

<b>NGC 1662</b> Nov 04 2007 1.9"	12x50	<b>H1-7</b> B,S,STARS 12+,R=F	<b>Open Cluster 9.0 II 3 m</b>	<b>CL OF L\$S SC ST</b>
<b>NGC 1663</b> Apr 09 2008 8"	11mmT6	<b>H7-8</b> PF,PS,R=F	<b>Open Cluster IV 2 p c</b>	<b>CL,LRI,ST L\$S</b>
<b>NGC 1682</b> Dec 04 2004 8"	11mmT6	<b>H527-2</b> VF,R,NND,AV,R=F	<b>Galaxy E/S0</b>	<b>VF,VS,1684F12S,*9S4'</b>
<b>NGC 1683</b> Feb 03 2005 31"	11mmT6		<b>Galaxy Sa</b> DIFF,MB,MS,EL,OVAL,NND,R=G	<b>VF,R</b>
<b>NGC 1684</b> Dec 15 2004 8"	11mmT6	<b>H528-2</b> VF,OVAL,NND,AV,R=F	<b>Galaxy E+ pec:</b>	<b>PF,PS,R,BM,*9SF</b>
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=G		
Nov 06 2004 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
<b>NGC 1691</b> Feb 03 2005 31"	11mmT6		<b>Galaxy (R)SB(s)0/a:</b> VF,MS,OVAL,NND,R=F	<b>F,S,*11INV</b>
<b>NGC 1729</b> Nov 21 2006 8"	11mmT6	<b>H503-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)c</b>	<b>VF,PL,2B*V NR</b>
<b>NGC 1762</b> Apr 09 2008 8"	11mmT6	<b>H453-3</b> PF,PS,OVAL,NND,USB,R=F	<b>Galaxy SA(rs)c:</b>	<b>VF,VS</b>
<b>NGC 1788</b> Nov 21 2006 8"	11mmT6	<b>H32-5</b> F,S,S,R=F, BRIGHTER THAN SOME.	<b>Nebula R</b>	<b>B,CL,R,BM,***15,*1'F</b>
<b>NGC 1843</b> Nov 21 2006 8"	11mmT6		<b>Galaxy SAB(s)cd:</b> VF,VS,OVAL,NND,AV,R=F	<b>F,S,R,LBM</b>
<b>NGC 1924</b> Nov 21 2006 8"	11mmT6	<b>H447-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB(r)bc</b>	<b>VF,PL,IR,ST NR</b>
<b>NGC 1975</b> Nov 21 2006 8"	11mmT6		<b>Nebula E</b> B,L,R=G, STARS GLOW	<b>B**INV IN NEB</b>
Feb 20 2006 31"	31mmT5	MB,ML,R=G, OIII		
<b>NGC 1976</b> Mar 25 2020 12"	11mmT6		<b>Nebula EN+RN</b> CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	<b>THETAORI \$GREAT NEB</b>
Feb 21 2020 36"	17mmT4		OUTSTANDING. 6 STARS IN TRAPIZUM EASILY VISIBLE	
Apr 20 2018 12"	11mmT6			
Jan 25 2018 12"	11mmT6		NICE OBJECT	
Mar 16 2012 18"	17mmAT		2012 M.M.	
Feb 17 2012 18"	17mmAT		FIRST OBJECT WITH 18" F/4.5 ASTROSYSTEMS	
Mar 01 2011 12"	17mmAT		M.M. 2011 - MANUAL SETTING CIRCLES	

## Orion - The Hunter

<b>NGC</b>	<b>1976</b>	<b>M42</b>	<b>Nebula EN+RN</b>	<b>THETAORI \$GREAT NEB</b>
	Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
	Dec 16 2009 12"	20mmUV		
	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	
<b>NGC</b>	<b>1977</b>		<b>H30-5</b>	<b>Open Cluster</b>
	Feb 20 2006 31"	31mmT5	B,R=F, STARS LIGHT UP B.N., OIII	<b>42ORIONIS\$NEB</b>
<b>NGC</b>	<b>1980</b>		<b>H31-5</b>	<b>Nebula III 3 m n</b>
	Mar 29 2006 8"	19mmW	PB,L,R=F	<b>VF,VVL,44ORIONIS INV</b>
<b>NGC</b>	<b>1981</b>			<b>Open Cluster 10.0 III 3 p n</b>
	Nov 04 2007 1.9"	12x50	PB,L,STARS 10+,R=F	<b>CL,VB,LRI,ST L,SC</b>
	Apr 17 2006 8"	19mmW	PB,L,R=F, SCATTERED STARS	
	Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
<b>NGC</b>	<b>1982</b>	<b>M43</b>	<b>H1-3</b>	<b>Nebula E</b>
	Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	<b>VB,VL,RW/TAIL,MBM*8</b>
	Feb 21 2020 36"	17mmT4	OUTSTANDING.	
	Jan 25 2018 12"	11mmT6	NICE OBJECT	
	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"	20mmUV		
	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</b>	<b>1990</b>		<b>H34-5</b>	<b>Nebula E+R</b>
	Mar 28 2011 12"	17mmAT	PF,PS,R=F,OIII FILTER, SOME NEBULOSITY?	<b>EL,E,EPSILONORI INV</b>
<b>NGC</b>	<b>1999</b>		<b>H33-4</b>	<b>Nebula E</b>
	Feb 20 2006 31"	31mmT5	MB.ML,R=F, OIII	<b>*10,11INV IN NEB</b>

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<b>NGC 2022</b>		<b>H34-4</b>	<b>Planetary Neb 4+2</b>	<b>PLN,PB,VS,VLE</b>
Dec 28 2008 31"	17mmT4	F,PS,OVAL,R=G, NO CENTRAL STAR		
Nov 22 2006 8"	11mmT6	PF,S,R=F		
Mar 09 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
<b>NGC 2023</b>		<b>H24-4</b>	<b>Nebula R+E</b>	<b>B*IN M OF L,LE NEB</b>
Jan 24 2009 31"	17mmT4	PF,PS, HINT OF NEBULOSITY,R=F		
Nov 21 2006 8"	11mmT6	PF,S,R=F		
<b>NGC 2024</b>		<b>H28-5</b>	<b>Nebula E</b>	<b>IRR,B,VVL,BLACKSPINC</b>
Nov 22 2006 8"	11mmT6	B,L,R=G,STARSGLOW,IRREGULARSHAPE		
<b>NGC 2045</b>			<b>Non-Existent</b>	<b>*8,9W/ F NEB</b>
Mar 20 2007 8"	11mmT6	SINGLE STAR,R=P		
<b>NGC 2068</b>		<b>M78</b>	<b>Nebula R</b>	<b>B,L,WISP,GMBN,3*INV</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"	20mmUV			
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 2071</b>		<b>H36-4</b>	<b>Nebula R</b>	<b>D*10\$14 W/VF,L CHEV</b>
Nov 21 2006 8"	11mmT6	PF,PS,R=F		
<b>NGC 2112</b>		<b>H24-7</b>	<b>Open Cluster 10.0 II 2 m n</b>	<b>CL,PL,LRI,PC,ST S</b>
Nov 21 2006 8"	11mmT6	F,S,LOOSER,R=F		
<b>NGC 2141</b>			<b>Open Cluster 15.0 I 2 r</b>	<b>F,PS,DIF,</b>
Nov 21 2006 8"	11mmT6	F,S,LOOSER,R=F		
<b>NGC 2169</b>		<b>H24-8</b>	<b>Open Cluster 6.9 III 3 m</b>	<b>CL,S,LRI,PMC,**</b>
Nov 04 2007 1.9"	12x50	PF,S,R=F		
Apr 17 2006 8"	19mmW	B,S,R=F		
Nov 06 2004 8"	11mmT6	NICE SHAPE		
<b>NGC 2186</b>		<b>H25-7</b>	<b>Open Cluster 12.0 II 2 m</b>	<b>CL,PL,PRI,PC,ST L\$S</b>
Mar 29 2006 8"	11mmT6	F,S,R=F		
<b>NGC 2194</b>		<b>H5-6</b>	<b>Open Cluster 13.0 II 2 r</b>	<b>CL,L,RI,GVMCM</b>
Mar 29 2006 8"	11mmT6	F,S,R=F		

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**PGC 16012**

Feb 03 2005 31" 11mmT6 VF,MS,OVAL,NND,AV,R=F

**Galaxy Sd**

**PGC 16017**

Feb 03 2005 31" 11mmT6 MB,MS,EL,EON,FNUC,R=G

**Galaxy Sa**

## Pegasus - The Winged Horse

<b>IC 1380</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	PF,VS,R,NND,R=F	
<b>IC 1394</b>			<b>Galaxy C</b>
Sep 25 2006 31"	19mmW	F,S,R,NND,R=F	
<b>IC 1395</b>			<b>Galaxy C</b>
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>IC 1398</b>			<b>Galaxy Sc</b>
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F	
Sep 25 2006 31"	19mmW	PF,PS,EL,OVAL,NND,R=F	
<b>IC 1399</b>			<b>Galaxy C</b>
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F	
<b>IC 1414</b>			<b>Galaxy CB</b>
Sep 25 2006 31"	19mmW	F,L,R,NND,R=F	
<b>IC 1418</b>			<b>Galaxy S?</b>
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F	
<b>IC 1420</b>			<b>Galaxy SB?</b>
Sep 25 2006 31"	19mmW	B,PS,OVAL,NND,R=F	
<b>IC 1422</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	VF,CS,R,NND,AV,R=F	
<b>IC 1423</b>			<b>Galaxy SBb</b>
Sep 25 2006 31"	19mmW	CF,PS,OVAL,NND,R=F	
<b>IC 1425</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	VF,PS,R,NND,R=F	
<b>IC 1427</b>			<b>Galaxy E</b>
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F	
<b>IC 1428</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
<b>IC 1444</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	VF,CS,R,NND,AV,R=F	
<b>IC 1461</b>			<b>Galaxy S?</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,FNUC,R=F	
<b>IC 1478</b>			<b>Galaxy Sb</b>
			<b>VF, S, DIF</b>

## Pegasus - The Winged Horse

<b>IC 1478</b>		<b>Galaxy Sb</b>	<b>VF, S, DIF</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>IC 1487</b>		<b>Galaxy SB?</b>	
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>IC 5254</b>		<b>Galaxy</b>	
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>IC 5258</b>		<b>Galaxy S0-:</b>	
Nov 02 2010 31"	17mmT4	F,PS,OVAL,MEXT,BNUC,R=G,TRIANGULAR AST. TO NORTH	
Sep 12 2010 12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,R=F,PA=135	
<b>IC 5274</b>		<b>Galaxy S0:</b>	
Nov 02 2010 31"	17mmT4	PF,PS,R,FNUC,R=G	
<b>IC 5276</b>		<b>Galaxy S</b>	
Nov 02 2010 31"	17mmT4	CF,CS,OVAL,MEXT,UB,NND,R=F	
<b>IC 5285</b>		<b>Galaxy S?</b>	
Oct 15 2006 31"	19mmW	PB,PL,OVAL,FNUC,R=G	
<b>IC 5293</b>		<b>Galaxy</b>	
Nov 02 2010 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F	
<b>IC 5295</b>		<b>Galaxy</b>	
Nov 02 2010 31"	17mmT4	CF,ES,OVAL,UB,NND,R=F	
<b>IC 5296</b>		<b>Galaxy SBb</b>	
Nov 02 2010 31"	17mmT4	DIFF,VF,CS,R,UB,NND,R=F	
<b>IC 5297</b>		<b>Galaxy C</b>	
Nov 02 2010 31"	17mmT4	PF,ES,OVAL,FNUC,R=F	
<b>IC 5298</b>		<b>Galaxy S?</b>	
Nov 02 2010 31"	17mmT4	PF,PS,R,UB,NND,R=F	
<b>IC 5305</b>		<b>Galaxy S</b>	
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>IC 5312</b>		<b>Galaxy Sb</b>	
Oct 30 2005 31"	17mmT4	MF,MS,R,NND,R=F	
<b>IC 5314</b>		<b>Galaxy C</b>	
Oct 30 2005 31"	17mmT4	MF,MS,R,NND,R=F	
<b>IC 5315</b>		<b>Galaxy E?</b>	



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<b>IC</b>	<b>5315</b>		<b>Galaxy E?</b>
	Nov 02 2010 31"	17mmT4	PF,ES,R,FNUC,HSB,R=G
	Oct 30 2005 31"	17mmT4	MB,VS,R,FNUC,MSB,R=G
<b>IC</b>	<b>5381</b>		<b>Galaxy Sab? sp</b>
	Oct 30 2008 16"	17mmT4	CF,CS,OVAL,NND,AV,R=F
<b>MAC</b>	<b>0007+2733</b>		<b>Galaxy</b>
	Nov 02 2005 31"	19mmW	VF,VS,OVAL,NND,R=F
<b>MAC</b>	<b>2207+1014</b>		<b>Galaxy</b>
	Sep 14 2012 36"	17mmT4	VF,VS,OVAL,MEXT,UB,NND,R=F
<b>MAC</b>	<b>2214+1352</b>		<b>Galaxy</b>
	Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=P
<b>MAC</b>	<b>2238+2340</b>		<b>Galaxy</b>
	Oct 21 2006 31"	20mmUV	VF,VS,R,NNUC,AV,R=F
<b>MAC</b>	<b>2243+3001</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,AV4
<b>MAC</b>	<b>2255+1910</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	VF,ES,OVAL,UB,NND,R=F,AV1
<b>MAC</b>	<b>2256+1747</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,AV2
<b>MAC</b>	<b>2257+1454</b>		<b>Galaxy</b>
	Nov 03 2013 36"	17mmT4	VF,VS,R,UB,NND,R=F
<b>MAC</b>	<b>2257+1457</b>		<b>Galaxy</b>
	Nov 03 2013 36"	17mmT4	VF,VS,R,NND,AV2,R=F
<b>MAC</b>	<b>2259+1755</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	VF,ES,OVAL,UB,NND,R=F
<b>MAC</b>	<b>2259+1757</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	VF,VS,R,UB,NND,R=F
<b>MAC</b>	<b>2300+1850</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	VF,VS,R,UB,NND,R=F,AV1
<b>MAC</b>	<b>2300+1903</b>		<b>Galaxy</b>
	Nov 02 2010 31"	17mmT4	CF,VS,R,UB,NND,R=F,AV1
<b>MAC</b>	<b>2301+1842</b>		<b>Galaxy</b>

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**MAC 2301+1842 Galaxy**

Nov 02 2010 31" 17mmT4 VF,VS,R,UB,NND,R=F,AV1

**MAC 2301+1852 Galaxy**

Nov 02 2010 31" 17mmT4 CF,CS,R,UB,NND,R=F

**MAC 2307+2813 Galaxy**

Oct 15 2006 31" 19mmW VF,VS,EL,OVAL,NND,AV,R=F

**MAC 2307+3356 Galaxy**

Oct 15 2006 31" 19mmW VF,VS,OVAL,NND,R=F

**MAC 2315+2540 Galaxy**

Nov 02 2010 31" 17mmT4 CF,ES,R,UB,NND,R=F

Nov 02 2010 31" 17mmT4 CF,VS,R,UB,NND,R=F

**MAC 2316+2537 Galaxy**

Nov 02 2010 31" 17mmT4 VF,EES,OVAL,UB,NND,R=F

**MAC 2319+0930 Galaxy**

Nov 03 2013 36" 17mmT4 VF,VS,OVAL,UB,NND,AV,R=F

**MAC 2320+2712 Galaxy**

Oct 30 2005 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 2320+2714 Galaxy**

Oct 30 2005 31" 17mmT4 VF,VS,R,NND,AV,R=F

**MAC 2321+0815 Galaxy**

Oct 30 2005 31" 17mmT4 F,VS,OVAL,FNUC,R=F

**MAC 2321+2551 Galaxy**

Nov 02 2010 31" 17mmT4 CF,ES,OVAL,UB,NND,R=F

Oct 30 2005 31" 17mmT4 VF,VS,R,NND,R=F

**MAC 2323+1649 Galaxy**

Oct 25 2006 31" 17mmT4 EF,ES,OVAL,NND,R=F

**MAC 2323+1654 Galaxy**

Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,AV,R=F

**MAC 2323+1656 Galaxy**

Oct 25 2006 31" 17mmT4 CF,CS,OVAL,NND,R=F

**MAC 2324+0929A Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,R,AV,R=F

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**MAC 2324+0931 Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 2324+0932 Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,R,NND,AV,R=F

**MAC 2324+1357 Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,AV,R=P

**MAC 2324+1357A Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 2324+1358 Galaxy**

Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,R=F

**MAC 2324+1359A Galaxy**

Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,R=F

**MAC 2324+1430C Galaxy**

Oct 25 2006 31" 17mmT4 CF,CS,OVAL,NND,R=F

**MAC 2324+1437A Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,AV,R=F

**MAC 2324+1438A Galaxy**

Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,R=F

**MAC 2324+1438B Galaxy**

Oct 25 2006 31" 17mmT4 PF,CS,OVAL,NND,R=F

**MAC 2324+1439B Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 2324+1440B Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F

**MAC 2324+1440C Galaxy**

Oct 25 2006 31" 17mmT4 VF,VS,R,NND,R=F

**MAC 2324+1647 Galaxy**

Oct 25 2006 31" 17mmT4 PF,PS,OVAL,FNUC,R=G

**MAC 2340+2710A Galaxy**

Nov 03 2013 36" 17mmT4 VF,VS,R,UB,NND,R=F

**MAC 2345+2728 Galaxy**

Nov 03 2013 36" 17mmT4 VF,VS,OVAL,NND,R=F

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<b>NGC 1</b>		<b>Galaxy SA(s)b:</b>	<b>F,S,R,BET*11\$*14 VF,</b>
Sep 02 2016 12"	8mm Et	PF,PS,OVAL,NND,R=F. SQM-20.12. 53 DEGREES AT 2350 HOURS.	
Nov 02 2005 31"	19mmW	MB,ML,OVAL,FNUC,MSB,R=G	
Sep 01 2005 8"	7.5mmW	VF,VVS,OVAL,NND,AV,R=F	
<b>NGC 2</b>		<b>Galaxy Sab</b>	<b>VF,S,S OF1</b>
Sep 02 2016 12"	8mm Et	PF,PS,OVAL,NND,R=F, PAIRED WITH NGC-1	
Nov 02 2005 31"	19mmW	F,ML,EL,NND,R=F	
<b>NGC 9</b>		<b>Galaxy Sb: pec</b>	<b>F,R,*9,10 SF</b>
Nov 02 2005 31"	19mmW	PF,FL,OVAL,NND,R=F	
<b>NGC 14</b>		<b>H591-2 Galaxy (R)IB(s)m pec</b>	<b>VF,PS,R,GLBM</b>
Oct 30 2008 16"	17mmT4	F,VS,R,NND,R=F	
Oct 06 2004 8"	11mmT6	EF,EL,EON,NND,AV,R=F	
<b>NGC 15</b>		<b>Galaxy Sa</b>	<b>VF,VS,R,BM</b>
Nov 02 2005 31"	19mmW	MB,ML,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 16</b>		<b>H15-4 Galaxy SAB0- sp</b>	<b>PB,S,R,BM</b>
Nov 02 2005 31"	19mmW	VB,ML,EON,OVAL,BNUC,HISB,R=G	
Sep 01 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 22</b>		<b>Galaxy Sb</b>	<b>VF,PS,R,LBM,R</b>
Nov 02 2005 31"	19mmW	MB,ML,R,NND,R=F	
<b>NGC 23</b>		<b>H147-3 Galaxy SB(s)a</b>	<b>3S*+NEB</b>
Sep 24 2016 12"	8mm Et	F,S,R,UB,NND,R=F	
Sep 15 2004 8"	7.5mmW	EF,OVAL,PATCH,NND,AV,R=F	
<b>NGC 26</b>		<b>Galaxy SA(rs)ab</b>	<b>VF,PL,R,2F*N</b>
Sep 24 2016 12"	8mm Et	VF,S,R,UB,NND,AV,R=F	
Sep 15 2004 8"	7.5mmW	EF,PATCH,NND,AV,R=F, MAG=13.9	
<b>NGC 41</b>		<b>Galaxy S?</b>	<b>PF,S,LE,GBM</b>
Nov 02 2005 31"	19mmW	MB,ML,OVAL,FNUC,MSB,R=G	
<b>NGC 42</b>		<b>Galaxy S0-:</b>	<b>F,VS,STELL</b>
Nov 02 2005 31"	19mmW	MB,FS,OVAL,NND,R=F	
<b>NGC 52</b>		<b>H183-3 Galaxy S?</b>	<b>VF,S,E</b>
Nov 02 2005 31"	19mmW	PF,PL,EON,NND,R=F	
<b>NGC 7042</b>		<b>H209-3 Galaxy Sb</b>	<b>VF,S,R</b>
Sep 24 2016 12"	8mm Et	F,S,OVAL,MEXT,UB,NND,R=F	
Aug 21 2015 12"	8mm Ds		
Oct 06 2004 8"	7.5mmW	VF,OVAL,FNUC,R=G	

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<b>NGC 7053</b>		<b>Galaxy S?</b>	<b>PB,S,VLE</b>
Sep 01 2011 12"	17mmT4	PF,PS,R,FNUC,R=G	
Oct 07 2010 12"	7mm TV	VF,VS,OVAL,UB,NND,R=F,PA=80	
<b>NGC 7056</b>		<b>Galaxy SBb</b>	<b>PF,S,R</b>
Oct 18 2009 12"	11mmT6	VF,VS,R,UB,NND,AV,R=F	
<b>NGC 7066</b>		<b>Galaxy S?</b>	<b>EEF,CLOSE SF OF 3F*</b>
Sep 13 2007 31"	17mmT4	PB,PS,R,BNUC,HISB,R=G	
<b>NGC 7068</b>		<b>Galaxy Sc</b>	<b>VF,CLOSE TO A S*</b>
Sep 27 2013 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 7074</b>		<b>Galaxy C</b>	<b>VF,S,E</b>
Sep 27 2013 18"	7mm TV	VF,VS,EON,UB,NND,R=F	
<b>NGC 7078</b>	<b>M15</b>	<b>Globular</b>	<b>GCL,VB,VL,IR,VSMBM</b>
Jul 26 2020 12"	17mmT4	NV+IR685 FILTER. PRETTY GOOD.	
Jul 17 2020 12"	8mm Et	FIRST TIME THIS SUMMER. STILL A WINNER	
Aug 02 2019 12"	7mm TV	FAVORITE GLOBULAR.	
Jul 08 2019 12"	11mmT6	OUTSTANDING OBJECT. #6,000 OBSERVATION FOR ME.	
Jul 08 2018 12"	17mmT4	PB,L,R=E	
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"	32mmUV	5TH OBJECT	
Oct 29 2008 16"	32mmUV	NICE, BRIGHT, CAN'T RESOLVE INDIVIDUAL STARS	
Oct 21 2006 31"	20mmUV	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 7094</b>		<b>Planetary Neb 4</b>	<b>*IN EEF NEBY,VDIFFIC</b>
Sep 05 2010 28"	26mm	PF,PS,R,R=F,OII, NO CENTRAL STAR NOTED	
Aug 29 2010 12"	7mm TV	VF,CS,AV,R=F. NO CENTRAL STAR NOTED.	
<b>NGC 7102</b>		<b>Galaxy SB(rs)b?</b>	<b>F,PL,R</b>
Jul 27 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F	

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<b>NGC 7137</b>		<b>H261-2</b>	<b>Galaxy SAB(rs)c</b>	<b>F,PS,R,VGLBM,R</b>
Sep 24 2016 12"	8mm Et	PF,S,OVAL,UB,NND,R=F		
Oct 06 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 7148</b>			<b>Galaxy C</b>	<b>VF,VS,R</b>
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F		
<b>NGC 7149</b>			<b>Galaxy E</b>	<b>VF,VS,R</b>
Sep 25 2006 31"	19mmW	FB,L,EL,OVAL,NND,R=G		
<b>NGC 7156</b>		<b>H452-3</b>	<b>Galaxy SAB(rs)cd:</b>	<b>F,PL,R,BM,R</b>
Jul 27 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 7177</b>		<b>H247-2</b>	<b>Galaxy SAB(r)b</b>	<b>PB,PS,R,BMN,R,*SP</b>
Sep 24 2016 12"	8mm Et	PF,PS,OVAL,UB,NND,R=G		
Sep 01 2011 31"	17mmT4	PB,PS,OVAL,PEXT,BNUC,R=G		
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.		
<b>NGC 7194</b>			<b>Galaxy E</b>	<b>VF,VS,R,LBM</b>
Aug 17 2012 18"	7mm TV	F,S,OVAL,UB,NND,R=F		
<b>NGC 7206</b>			<b>Galaxy S0:</b>	<b>F,S,LE,BM</b>
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,FNUC,R=F		
<b>NGC 7207</b>			<b>Galaxy</b>	<b>VF,S</b>
Oct 23 2008 31"	17mmT4	CF,S,EL,OVAL,UB,NND,R=F		
<b>NGC 7212</b>			<b>Galaxy S?</b>	<b>EF,VS,LE</b>
Sep 14 2012 36"	17mmT4	PF,PS,OVAL,FNUC,R=F		
Oct 23 2008 31"	17mmT4	CF,CS,EL,OVAL,FNUC,R=F		
<b>NGC 7217</b>		<b>H207-2</b>	<b>Galaxy (R)SA(r)ab</b>	<b>B,PL,GBM,ER</b>
Sep 24 2016 12"	8mm Et	B,S,R,FNUC,R=G		
Sep 14 2012 36"	17mmT4	B,S,R,BNUC,R=G, SPIRAL STRUCTURE NOTED		
Sep 15 2004 8"	7.5mmW	F.NND.AV.R=F		
Jul 16 2004 8"	25mmPL	10.2 PHOTO MAG. VERY FAINT		
<b>NGC 7224</b>			<b>Galaxy E</b>	<b>F,S,R</b>
Sep 14 2012 36"	17mmT4	F,PS,OVAL,UB,NND,R=F		
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,FNUC,R=F		
<b>NGC 7236</b>			<b>Galaxy SA0-</b>	<b>VF,S,STELLAR</b>
Oct 23 2008 31"	17mmT4	CF,CS,R,FNUC,R=F		
<b>NGC 7237</b>			<b>Galaxy SA0-</b>	<b>VF,S,STELLAR</b>
Oct 23 2008 31"	17mmT4	F,S,R,UB,NND,R=F		

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<b>NGC 7241</b>			<b>Galaxy SB(s)bc? pec</b>	<b>PF,LE,*10ATT S</b>
Sep 19 2004 8"	7.5mmW	VF,EL,NND,AV,R=F	MAG.=13.8	
<b>NGC 7244</b>			<b>Galaxy S?</b>	<b>EF,ES,R,BM</b>
Oct 23 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F		
<b>NGC 7253A</b>			<b>Galaxy SB?</b>	<b>VF,PE</b>
Oct 23 2008 31"	17mmT4	CF,CS,EON,UB,NND,R=F		
<b>NGC 7253B</b>			<b>Galaxy S?</b>	
Oct 23 2008 31"	17mmT4	F,CS,EON,NND,R=F		
<b>NGC 7270</b>			<b>Galaxy S?</b>	<b>VF,S,E</b>
Oct 23 2008 31"	17mmT4	CF,S,OVAL,FNUC,R=F		
<b>NGC 7271</b>			<b>Galaxy L</b>	<b>VF,S,VLE</b>
Oct 23 2008 31"	17mmT4	F,S,R,UB,NND,R=F		
<b>NGC 7272</b>			<b>Galaxy SBa</b>	<b>VF,S,IR</b>
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 7275</b>			<b>Galaxy Sa</b>	<b>EF,S,ME</b>
Oct 23 2008 31"	17mmT4	CF,CS,EON,FNUC,MSB,R=F		
<b>NGC 7280</b>		<b>H248-2</b>	<b>Galaxy SAB(r)0+</b>	<b>F,CS,R,GBMS*,3*N,NF</b>
Oct 23 2008 31"	17mmT4	PF,PS,OVAL,BNUC,MSB,R=G		
Aug 12 2005 8"	7.5mmW	VF,VS,OVAL,AV,R=F		
<b>NGC 7283</b>			<b>Galaxy S?</b>	<b>VF,VS,R</b>
Sep 01 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F		
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F		
<b>NGC 7286</b>			<b>Galaxy S0/a</b>	<b>VF,S,R,AM ST</b>
Oct 23 2008 31"	17mmT4	CF,CS,EON,UB,NND,R=F		
<b>NGC 7290</b>			<b>Galaxy SA(r)bc</b>	<b>PB,S,PME</b>
Sep 01 2011 31"	17mmT4	PF,PS,OVAL,UB,NND,R=G		
Oct 23 2008 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 7291</b>			<b>Galaxy S0</b>	<b>EF,ES,R,SMBM</b>
Sep 01 2011 31"	17mmT4	PF,PS,R,FNUC,R=F		
Oct 23 2008 31"	17mmT4	PF,CS,R,FNUC,MSB,R=F		
<b>NGC 7292</b>			<b>Galaxy IBm</b>	<b>EF,S,OVAL,F*INV</b>
Aug 25 2009 16"	11mmT6	VF,CS,OVAL,NND.AV.R=F		
Aug 12 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		

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<b>NGC 7303</b>		<b>Galaxy Sbc</b>	<b>VF,S,R,GVLBM</b>
Sep 14 2012 36"	17mmT4	F,PS,OVAL,MEXT,BNUC,R=G, SPIRAL STRUCTURE SEEN TOWARDS NOTHERN PART.	
Aug 25 2009 16"	11mmT6	CF,CS,R,NND,AV,R=F	
<b>NGC 7304</b>		<b>Non-Existent</b>	<b>VF,PS,VLBM,NF7303,()</b>
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>NGC 7305</b>		<b>Galaxy E/S0</b>	<b>EF,S,R,4F*AROUND</b>
Oct 23 2008 31"	17mmT4	F,VS,R,NND,R=P	
<b>NGC 7311</b>		<b>H428-2</b>	<b>Galaxy Sab</b>
Oct 18 2009 12"	11mmT6	VF,VS,OVAL,NND,AV	<b>PF,S,R,PSBM,R</b>
Aug 12 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F	
<b>NGC 7312</b>		<b>Galaxy SB(s)b</b>	<b>F,S</b>
Oct 23 2008 31"	17mmT4	F,CS,EL,OVAL,UB,R=F	
<b>NGC 7315</b>		<b>Galaxy S0</b>	<b>VF,ES,R,BM</b>
Sep 14 2012 36"	17mmT4	PF,PS,R,UB,NND,R=F	
Oct 23 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>NGC 7316</b>		<b>H180-3</b>	<b>Galaxy S</b>
Sep 14 2012 36"	17mmT4	F,PS,OVAL,EXT,FNUC,R=G, FAINT STAR AT SW CORNER.	<b>F,S,R,*8SP</b>
Oct 23 2008 31"	17mmT4	DIFF,F,CS,OVAL,UB,NND,R=F	
<b>NGC 7317</b>		<b>Galaxy E4</b>	<b>VF,VS</b>
Sep 02 2016 12"	5.5mmN	VF,CS,R,NND,AV,R=P	
Sep 10 2015 12"	7mm TV	1ST OBJECT AT WRO WITH 12AD, VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Oct 10 2012 36"	17mmT4	STEPHEN'S QUINTET - GALAXY 1. BRIGHT NUCLEUS	
Aug 06 2010 12"	7mm TV	VF,CS,R,NND,AV,R=F	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
<b>NGC 7318A</b>		<b>Galaxy E2 pec</b>	<b>EF,ES</b>
Sep 02 2016 12"	5.5mmN	EF,CS,R,NND,R=F	
Sep 10 2015 12"	7mm TV	VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010 12"	7mm TV	EF,CS,R,NND,R=P	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
<b>NGC 7318B</b>		<b>Galaxy SB(s)bc pec</b>	<b>EF,ES</b>
Aug 24 2019 12"	8mm Et	VF,VS,OVAL,NND,R=P	
Sep 02 2016 12"	5.5mmN	VF,CS,OVAL,NND,AV,R=F	
Sep 10 2015 12"	7mm TV	VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	



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<b>NGC 7318B</b>		<b>Galaxy SB(s)bc pec</b>	<b>EF,ES</b>
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010 12"	7mm TV	VF,CS,R,NND,AV,R=P	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
<b>NGC 7319</b>		<b>Galaxy SB(s)bc pec</b>	<b>EF,ES</b>
Aug 24 2019 12"	8mm Et	VF,VS,OVAL,NND,R=F	
Sep 02 2016 12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F	
Sep 10 2015 12"	7mm TV	VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
<b>NGC 7320</b>		<b>Galaxy SA(s)d</b>	<b>F,VS</b>
Aug 24 2019 12"	8mm Et	F,VS,OVAL,NND,R=F	
Sep 02 2016 12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F	
Sep 10 2015 12"	7mm TV	VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,NND,R=G	
Sep 15 2004 8"	7.5mmW	B,EL,FNUC,HISB,R=G	
<b>NGC 7320C</b>		<b>Galaxy (R)SAB(s)0/a</b>	
Jul 13 2013 18"	5mm TV	VF,VS,R,UB,NND,AV2,R=F	
Oct 06 2004 31"	17mmT4	MF,OVAL,NND,AV,R=F	
<b>NGC 7321</b>	<b>H237-3</b>	<b>Galaxy SB(r)b</b>	<b>F,S,IR,VGVLBM</b>
Aug 29 2010 12"	7mm TV	VF,CS,OVAL,UB,NND,R=F. PA=75	
Oct 23 2008 31"	17mmT4	DIFF,F,CS,OVAL,UB,NND,R=F	
<b>NGC 7323</b>		<b>Galaxy Sb</b>	<b>PF,PL,IR</b>
Sep 14 2012 36"	17mmT4	PF,PS,OVAL,UB,NND,MSB,R=G	
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>NGC 7324</b>		<b>Galaxy E</b>	<b>VF,VS,NEB*</b>
Sep 14 2012 36"	17mmT4	PF,VS,OVAL,PEXT,FNUC,R=G	
Oct 23 2008 31"	17mmT4	F,S,OVAL,NND,R=F	
<b>NGC 7327</b>		<b>Non-Existent</b>	<b>EF,ES,NP 7331</b>
Sep 02 2016 12"	5.5mmN	VF,VS,OVAL,NND,R-F	
<b>NGC 7328</b>		<b>Galaxy Sab</b>	<b>EF,PS,LE90,VGLBM</b>
Oct 23 2008 31"	17mmT4	F,CS,EON,NND,R=F	
<b>NGC 7331</b>	<b>H53-1</b>	<b>Galaxy SA(s)b</b>	<b>B,PL,PME163,SMBM</b>

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<b>NGC</b>	<b>7331</b>	<b>H53-1</b>	<b>Galaxy SA(s)b</b>	<b>B,PL,PME163,SMBM</b>
Jul 26 2020	12"	17mmT4	NV+IR685 FILTER. PRETTY SMALL. OK FOR GALAXIES	
Jul 17 2020	12"	8mm Et	ALWAYS A HIT.	
Aug 24 2019	12"	8mm Et	B,S,EON,FNUC,R=G	
Aug 02 2019	12"	7mm TV	B,L,EON,R=E. OUTSTANDING	
Sep 02 2016	12"	5.5mmN	PF,PS,EON,BNUC,R=E. SQM-19.96. 56 DEGREES AT 2125 HOURS	
Sep 10 2015	12"	7mm TV	F,PS,EON,FNUC,R=G	
Aug 21 2015	12"	8mm Ds		
Jul 13 2013	18"	7mm TV	EYE CANDY. ALWAYS GREAT TO LOOK AT.	
Oct 21 2012	8"	11mmT6	SMALL SPINDLE, NOT ENOUGH APERTURE OR DARK ENOUGH SKIES.	
Oct 07 2010	12"	17mmAT	F,PS,EON,BNUC,HSB,R=G,PA=10	
Sep 13 2009	12"	32mmUV	3RD OBJECT	
Jul 23 2006	8"	11mmT6	PB,PL,EON,FNUC,R=G	
Jul 16 2004	31"	20mmUV	9.5 PHOTO MAG. BRIGHTER YET.	
Jul 16 2004	8"	25mmPL	9.5 PHOTO MAG. BRIGHT	
<b>NGC</b>	<b>7332</b>	<b>H233-2</b>	<b>Galaxy S0 pec sp</b>	<b>CB,S,ME156,SMBMN,P-2</b>
Sep 24 2016	12"	8mm Et	F,S,EON,BNUC,R=G	
Sep 14 2012	36"	17mmT4	F,S,EON,BNUC,HSB,R=E, VERY NEAR NGC-7339	
Aug 25 2009	16"	11mmT6	PB,PS,EON,BNUC,R=G	
Oct 21 2006	31"	20mmUV	VB,PL,EON,VBNUC,R=G,PAIR W/N7339	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC</b>	<b>7335</b>	<b>H166-3</b>	<b>Galaxy SA(rs)0+</b>	<b>VF,VS</b>
Sep 02 2016	12"	5.5mmN	VF,VS,OVAL,NND,R=F	
Aug 17 2012	18"	7mm TV	F,PS,OVA,PRETTY EXTENDED,NND,R=F	
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,FNUC,R=F	
<b>NGC</b>	<b>7336</b>		<b>Galaxy S</b>	<b>EF,VS</b>
Jul 17 2020	12"	8mm Et	NICE	
Oct 23 2008	31"	17mmT4	VF,S,OVAL,NND,AV,R=F	
<b>NGC</b>	<b>7337</b>		<b>Galaxy SB(rs)b</b>	<b>EF,S,STELLAR</b>
Jul 17 2020	12"	8mm Et	NICE	
Sep 02 2016	12"	5.5mmN	VF,VS,OVAL,NND,R=F	
Aug 17 2012	18"	7mm TV	VF,VS,OVAL,MEXT,NND,AV1,R=F	
Oct 23 2008	31"	17mmT4	F,CS,OVAL,NND,R=F	
<b>NGC</b>	<b>7339</b>	<b>H234-2</b>	<b>Galaxy SAB(s)bc:?</b>	<b>F,PS,ME89,VGLBM,FOF2</b>
Sep 24 2016	12"	8mm Et	PF,PS,EON,UB,NND,R=F	
Sep 14 2012	36"	17mmT4	F,S,EON,UB,HSB,R=G, VERY NEAR, NGC-7332	
Aug 25 2009	16"	11mmT6	DIFF,PF,PS,EON,NND,R=F	
Oct 21 2006	31"	20mmUV	PB,PL,EON,NNUC,,R=G,PAIR W/N7332	
Sep 15 2004	8"	7.5mmW	F,PATCH,NND,AV,R=F	
Sep 12 2004	8"	11mmT6	B,S,EL,OVAL,FNUC,HISB,G	
<b>NGC</b>	<b>7340</b>		<b>Galaxy E?</b>	<b>VF,VS</b>

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<b>NGC 7340</b>		<b>Galaxy E?</b>	<b>VF,VS</b>
Aug 17 2012 18"	7mm TV	F,S,OVAL,MODERATELY EXTENDED,UB,NND,R=F	
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>NGC 7342</b>		<b>Galaxy SBa</b>	<b>EF,VS</b>
Oct 23 2008 31"	17mmT4	F,CS,R,NND,R=F	
<b>NGC 7343</b>		<b>Galaxy (R')SB(s)bc:</b>	<b>EF,VS,R,LBM,S*INV</b>
Oct 23 2008 31"	17mmT4	F,CS,R,NND,R=F	
<b>NGC 7347</b>		<b>Galaxy S?</b>	<b>EF,PL,E</b>
Sep 06 2013 18"	7mm TV	PF,PS,EON,UB,NND,R=F	
<b>NGC 7353</b>		<b>Galaxy Sbc</b>	<b>EF</b>
Aug 17 2012 18"	7mm TV	F,EON,UB,NND,AV2,R=G	
<b>NGC 7356</b>		<b>Galaxy Sbc</b>	<b>EF,PS,R,GLBM,*ATT</b>
Nov 02 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=G	
<b>NGC 7357</b>		<b>Galaxy Sb</b>	<b>VF,VS,VF*INV</b>
Nov 02 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=F,STAR AT NE TIP	
<b>NGC 7360</b>		<b>Galaxy S?</b>	<b>EF,VS</b>
Sep 06 2013 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 7362</b>		<b>Galaxy E:</b>	<b>VF,S,R,LBM</b>
Aug 12 2005 8"	11mmT6	VF,VS,R,NND,AV,R=F	
<b>NGC 7370</b>		<b>Galaxy</b>	<b>EF,VS</b>
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>NGC 7372</b>		<b>Galaxy S?</b>	<b>F,S,IR</b>
Sep 27 2013 18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>NGC 7373</b>		<b>Galaxy SAB(s)0^?</b>	<b>F,VS,BM,STELLAR</b>
Sep 27 2013 18"	7mm TV	VF,PS,R,UB,NND,R=F	
<b>NGC 7374</b>		<b>Galaxy S?</b>	<b>VF,PL,R</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,FNUC,R=F,PAIRED W/PGC-69675	
<b>NGC 7375</b>		<b>Galaxy S(r)0</b>	<b>EF,VS,R</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,FNUC,R=F	
<b>NGC 7383</b>		<b>Galaxy SB0</b>	<b>VF,VS,R,7385NF</b>
Sep 12 2010 12"	5.5mmN	VF,CS,R,UB,NND,AV,R=F	
<b>NGC 7385</b>	<b>H216-3</b>	<b>Galaxy E pec:</b>	<b>CF,S,R,GLBM,*11NP</b>

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<b>NGC 7385</b> Aug 12 2005 8"	11mmT6	<b>H216-3</b> VF,VS,R,NND,AV,R=F	<b>Galaxy E pec:</b>	<b>CF,S,R,GLBM,*11NP</b>
<b>NGC 7386</b> Aug 12 2005 8"	11mmT6	<b>H217-3</b> VS,VS,OVAL,NND,AV,R=F	<b>Galaxy SA0:</b>	<b>CF,S,R,PGBM,F OF 2</b>
<b>NGC 7387</b> Sep 27 2013 18"	8.8 ES	<b>PF,PS,OVAL,UB,NND,R=F</b>	<b>Galaxy S0-:</b>	<b>EF,VS,R,2*11S</b>
<b>NGC 7389</b> Sep 27 2013 18"	8.8 ES	<b>PF,PS,OVAL,MEXT,UB,NND,R=F</b>	<b>Galaxy SB0</b>	<b>VF,R</b>
<b>NGC 7407</b> Sep 12 2010 12"	5.5mmN	<b>VF,PS,OVAL,MEXT,UB,NND,AV,R=P,PA=110</b>	<b>Galaxy Sbc</b>	<b>EF,VS</b>
<b>NGC 7409</b> Nov 03 2013 36"	17mmT4	<b>CF,PS,OVAL,UB,NND,R=F</b>	<b>Galaxy E</b>	<b>EF</b>
<b>NGC 7411</b> Nov 03 2013 36"	17mmT4	<b>CF,CS,OVAL,FNUC,R=G</b>	<b>Galaxy E:</b>	<b>VF,VS</b>
<b>NGC 7415</b> Nov 03 2013 36"	17mmT4	<b>PF,PS,OVAL,UB,NND,R=F,PAIRED W/PGC-69984</b>	<b>Galaxy Sab</b>	<b>EF</b>
<b>NGC 7427</b> Nov 03 2013 36"	17mmT4	<b>CF,PS,R,UB,NND,R=F</b>	<b>Galaxy Compact</b>	<b>F,S,*9SF4'</b>
<b>NGC 7430</b> Nov 03 2013 36"	17mmT4	<b>CF,PS,OVAL,FNUC,R=F</b>	<b>Galaxy S</b>	<b>EF,VS</b>
<b>NGC 7432</b> Nov 03 2013 36"	17mmT4	<b>CF,CS,OVAL,UB,NND,R=G</b>	<b>Galaxy E</b>	<b>EF,S,R</b>
<b>NGC 7433</b> Aug 24 2012 18"	5mm TV	<b>PF,VS,EON,FNUC,R=F</b>	<b>Galaxy S0/a</b>	<b>EF,VS,P 7436</b>
<b>NGC 7435</b> Aug 24 2012 18"	5mm TV	<b>PF,VS,EON,UB,NND,R=F</b>	<b>Galaxy SB(s)a</b>	<b>EF,S OF 7436</b>
<b>NGC 7436</b> Aug 24 2012 18" Aug 25 2009 16"	5mm TV 11mmT6	<b>H243-3</b> DIFF,PF,PS,R,UB,NND,R=F DIFF,CF,PS,R,NND,R=F	<b>Galaxy E</b>	<b>F,PS,F*ATT P,GBM</b>
<b>NGC 7437</b> Nov 03 2013 36"	17mmT4	<b>DIFF,CF,PS,R,UB,NND,R=F</b>	<b>Galaxy SAB(rs)d</b>	<b>EEF,L,R,F*NRNF,</b>
<b>NGC 7439</b>			<b>Galaxy SB0</b>	<b>LONG PATCH OF F NEBY</b>

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<b>NGC 7439</b>		<b>Galaxy SB0</b>	<b>LONG PATCH OF F NEBY</b>
Oct 15 2006 31"	19mmW	VF,PS,R,NND,R=F	
<b>NGC 7442</b>		<b>Galaxy SAc:</b>	<b>PF,R,BET2*16,*13NF</b>
Oct 15 2006 31"	19mmW	VF,L,R,NND,R=F	
<b>NGC 7448</b>		<b>H251-2</b>	<b>Galaxy SA(rs)bc</b>
Sep 24 2016 12"	8mm Et	F,S,OVAL,FNUC,R=G	<b>PB,L,E173,VGBM,*F2'</b>
Sep 10 2015 12"	8mm Ds	F,PS,OVAL,MEXT,UB,NND,R=F	
Oct 26 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=G	
Sep 12 2004 8"	11mmT6	F,EL,OVAL,NND,AV,F	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 7451</b>		<b>Galaxy SBbc</b>	<b>PF,PL,*10,11SP2'</b>
Oct 15 2006 31"	19mmW	VF,CS,EON,NND,AV,R=F	
<b>NGC 7454</b>		<b>H249-2</b>	<b>Galaxy E4</b>
Aug 02 2019 12"	7mm TV	PF,PS,OVAL,NND,R=F	<b>F,CS,LE,LBM,*11P1'</b>
Aug 21 2004 8"	11mmT6	****13.6 PHOTO MAGNITUDE****	
<b>NGC 7457</b>		<b>H212-2</b>	<b>Galaxy SA(rs)0-?</b>
Sep 24 2016 12"	8mm Et	F,S,OVAL,MEXT,UB,NND,R=G	<b>CB,CL,LE,GMBM,R,2S*N</b>
Oct 15 2006 31"	19mmW	F,L,OVAL,NND,R=F	
Sep 19 2004 8"	7.5mmW	F,EL,UB,NND,R=G	
<b>NGC 7461</b>		<b>Galaxy SB0</b>	<b>VF,VS,ALMSTELLAR</b>
Oct 15 2006 31"	19mmW	VF,CS,R,NND,AV,R=F	
<b>NGC 7463</b>		<b>H210-3</b>	<b>Galaxy SABb: pec</b>
Sep 10 2015 12"	8mm Ds	PF,PS,OVAL,PEXT,UB,NND,R=F	<b>VF,S,LE,P OF 2</b>
Oct 26 2014 12"	8mm Ds	VF,PS,EON,UB,NND,AVII,R=F	
Nov 02 2010 31"	17mmT4	PF,S,EON,UB,HSB,R=G	
Oct 15 2006 31"	19mmW	PF,PL,EON,NND,R=F	
<b>NGC 7464</b>		<b>Galaxy E1 pec:</b>	<b>VF,VS,E,SF7463</b>
Aug 02 2019 12"	7mm TV	VF,PS,EON,UB,NND,AV1,R=P	
Sep 10 2015 12"	8mm Ds	VF,PS,R,UB,NND,R=F	
Nov 02 2010 31"	17mmT4	PF,PS,R,NND,USB,R=F	
Oct 15 2006 31"	19mmW	PF,CS,R,NND,R=F	
<b>NGC 7465</b>		<b>H211-3</b>	<b>Galaxy (R')SB(s)0^:</b>
Aug 02 2019 12"	7mm TV	PF,PS,OVAL,FNUC,R=G	<b>VF,VS,FOF 2</b>
Sep 10 2015 12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
Oct 26 2014 12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
Nov 02 2010 31"	17mmT4	F,S,R,BNUC,R=G	
Oct 15 2006 31"	19mmW	B,PL,OVAL,FNUC,R=G	

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<b>NGC 7466</b>			<b>Galaxy Sb</b>	<b>EF,ES,BM</b>
Oct 15 2006	31"	19mmW	B,PL,EON,FNUC,R=G	
<b>NGC 7467</b>			<b>Galaxy E/S0</b>	<b>EF,VS</b>
Oct 15 2006	31"	19mmW	VF,CS,R,NND,AV,R=F	
<b>NGC 7468</b>			<b>H202-3</b>	<b>Galaxy E3: pec</b>
Oct 15 2006	31"	19mmW	PB,L,EL,OVAL,FNUC,R=G	<b>EF,VS</b>
<b>NGC 7469</b>			<b>H230-3</b>	<b>Galaxy (R')SAB(rs)a</b>
Oct 05 2016	12"	8mm Et	PF,PS,OVAL,UB,NND,R=F	<b>VF,VS,VSMBM *12</b>
Sep 19 2004	8"	7.5mmW	B,OVAL,NUC,R=G	
<b>NGC 7473</b>			<b>Galaxy SB0</b>	<b>VF,S,R</b>
Oct 15 2006	31"	19mmW	PB,CL,EL,OVAL,NND,R=F	
<b>NGC 7474</b>			<b>Galaxy L</b>	<b>EF,VS</b>
Oct 15 2006	31"	19mmW	CF,PS,R,NND,AV,R=F	
<b>NGC 7475</b>			<b>Galaxy Double System</b>	<b>VF,S</b>
Oct 15 2006	31"	19mmW	CF,PS,OVAL,NND,AV,R=F	
<b>NGC 7479</b>			<b>H55-1</b>	<b>Galaxy SB(s)c</b>
Sep 24 2016	12"	8mm Et	F,S,R,UB,NND,R=F	<b>PB,CL,ME12,BET2ST</b>
Sep 19 2004	8"	7.5mmW	VF,EL,NND,R=F	
<b>NGC 7485</b>			<b>Galaxy S0</b>	<b>VF,S,R,BM,*10P</b>
Oct 15 2006	31"	19mmW	VB,L,OVAL,FNUC,R=G	
<b>NGC 7487</b>			<b>Galaxy Compact</b>	<b>VF,S,R</b>
Oct 15 2006	31"	19mmW	VF,VS,R,NND,R=F	
<b>NGC 7489</b>			<b>Galaxy Sd</b>	<b>F,S,R</b>
Oct 15 2006	31"	19mmW	PF,L,OVAL,NND,R=F	
<b>NGC 7490</b>			<b>Galaxy Sbc</b>	<b>VF,VS,IR,LBM</b>
Sep 01 2005	8"	7.5mmW	VF,VS,R,NND,AV,R=F	
<b>NGC 7495</b>			<b>Galaxy SAB(s)c</b>	<b>EF,S,LE,*9NF NR</b>
Oct 15 2006	31"	19mmW	VF,PS,R,NND,AV,R=F	
<b>NGC 7497</b>			<b>H203-3</b>	<b>Galaxy SB(s)d</b>
Aug 02 2019	12"	7mm TV	VF,PS,OVAL,MEXT,UB,AV1,R=P	<b>VF,L,PME45,LBM</b>
Oct 06 2004	8"	7.5mmW	VF,EON,NND,AV,R=F	
Sep 19 2004	8"	7.5mmW	VF,PATCH,NND,AV,R=F MAG=13.3	
<b>NGC 7500</b>			<b>Galaxy S0</b>	<b>EF,VS,R</b>

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<b>NGC 7500</b>			<b>Galaxy S0</b>	<b>EF,VS,R</b>
Oct 15 2006	31"	19mmW	B,CL,OVAL,NND,R=F	
<b>NGC 7505</b>			<b>Galaxy</b>	<b>EEF,ES,LE,BET B*\$2F*</b>
Oct 15 2006	31"	19mmW	CF,CS,EON,NND,R=F	
<b>NGC 7508</b>			<b>Galaxy S</b>	<b>EF,BM*,*11NP2'</b>
Oct 15 2006	31"	19mmW	CF,CS,EON,NND,R=F	
<b>NGC 7509</b>			<b>Galaxy C</b>	<b>VF,S,R,BET2*</b>
Oct 15 2006	31"	19mmW	PF,S,R,NND,R=F	
<b>NGC 7511</b>			<b>Galaxy S?</b>	<b>EEF,S,R,SEV*NF,</b>
Oct 15 2006	31"	19mmW	PB,S,OVAL,FNUC,R=G	
<b>NGC 7512</b>			<b>Galaxy E</b>	<b>F,S,R,VS*IN CENTRE</b>
Sep 04 2005	8"	11mmT6	VF,VS,NND,LSB,R=F	
<b>NGC 7514</b>			<b>Galaxy S?</b>	<b>EF,PL,IR</b>
Sep 04 2005	8"	11mmT6	VF,VS,NND,AV,R=F	
<b>NGC 7515</b>		<b>H220-3</b>	<b>Galaxy S?</b>	<b>F,CS,R,VGLBM,R</b>
Sep 04 2005	8"	11mmT6	VF,VS,R,NND,AV,R=F	
<b>NGC 7516</b>			<b>Galaxy S0</b>	<b>F,VS,STELLAR</b>
Oct 15 2006	31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>NGC 7519</b>			<b>Galaxy Sb:</b>	<b>VF,PL</b>
Oct 15 2006	31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
<b>NGC 7527</b>			<b>Galaxy E</b>	<b>VF,VS,STELLAR</b>
Nov 02 2010	31"	17mmT4	PF,CS,OVAL,UB,HSB,R=F	
<b>NGC 7528</b>			<b>Galaxy</b>	<b>F,S</b>
Oct 30 2005	31"	17mmT4	MF,MS,OVAL,NND,R=F	
<b>NGC 7539</b>			<b>Galaxy S0</b>	<b>F,S,R,PSBM</b>
Sep 04 2005	8"	7.5mmW	VF,VS,R,NND,AV,R=F	
<b>NGC 7543</b>			<b>Galaxy S?</b>	<b>VF,S,R,LBM</b>
Dec 13 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 7547</b>			<b>Galaxy (R')SAB(s)0/a p</b>	<b>VF,S,IR</b>
Sep 10 2015	12"	7mm TV	VF,VS,R,UB,NND,AV,R=F	
Dec 13 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 7548</b>			<b>Galaxy (R)SAB(r)0^:</b>	<b>VF,VS,*16P11S</b>

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<b>NGC 7548</b>			<b>Galaxy (R)SAB(r)0<sup>+</sup>:</b>	<b>VF,VS,*16P11S</b>
Nov 02 2010 31"	17mmT4	PF,VS,R,FNUC,R=F		
<b>NGC 7549</b>			<b>Galaxy SB(s)cd pec</b>	<b>PF,PS,R,*10,11P</b>
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
Sep 09 2010 12"	5.5mmN	VF,CS,EON,NND,AV,=P,PA=45		
<b>NGC 7550</b>		<b>H181-3</b>	<b>Galaxy SA0-</b>	<b>CF,S,R</b>
Sep 10 2015 12"	7mm TV	PF,PS,R,UB,NND,R=F		
Aug 25 2009 16"	11mmT6	CF,CS,R,UB,NND.R=F		
Aug 12 2005 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 7553</b>			<b>Non-Existent</b>	
Sep 10 2015 12"	7mm TV	VF,VS,R,UB,NND,AV1,R=P		
Oct 30 2005 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 7559</b>			<b>Non-Existent</b>	
Dec 13 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,AV1,R=F		
<b>NGC 7563</b>		<b>H222-3</b>	<b>Galaxy SBa</b>	<b>PF,CS,R,SBM*16,SFOF2</b>
Sep 04 2005 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 7568</b>			<b>Galaxy S?</b>	<b>EF,PL,IR,SEV ST INV</b>
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 7570</b>		<b>H238-3</b>	<b>Galaxy SBa</b>	<b>EF,ES</b>
Sep 09 2010 12"	5.5mmN	VF,CS,OVAL,PEXT,NND,AV,R=F,PA=90		
<b>NGC 7578A</b>			<b>Galaxy S0<sup>+</sup> pec</b>	<b>VF,AM VS ST</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-7578B		
<b>NGC 7578B</b>			<b>Galaxy E1:</b>	
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F,PAIRED W/NGC-7578A		
<b>NGC 7588</b>			<b>Galaxy S</b>	<b>EF,ES</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 7594</b>			<b>Galaxy S?</b>	<b>PF,R,3ST P</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 7595</b>			<b>Galaxy</b>	<b>F,STELLAR</b>
Oct 30 2005 31"	17mmT4	MF,MS,OVAL,NND,R=F		
<b>NGC 7597</b>			<b>Galaxy S?</b>	<b>EF,VS,GBM</b>
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 7598</b>			<b>Galaxy E</b>	<b>EF,ES,STELLAR</b>



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<b>NGC 7598</b>		<b>Galaxy E</b>	<b>EF,ES,STELLAR</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 7601</b>		<b>Galaxy SAB(s)c:</b>	<b>PB,DIF</b>
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
<b>NGC 7602</b>		<b>Galaxy S?</b>	<b>EF,ES,STELLAR</b>
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F	
<b>NGC 7608</b>		<b>Galaxy S?</b>	<b>VF,PS,LE,LBM</b>
Nov 03 2013 36"	17mmT4	CF,PS,EON,UB,NND,R=F,PA=22	
<b>NGC 7609</b>		<b>Galaxy Pec</b>	<b>VF,VS,GBM</b>
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
<b>NGC 7610</b>		<b>Galaxy Scd:</b>	<b>F,S,DIF</b>
Oct 18 2009 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 7612</b>		<b>Galaxy S0</b>	<b>PB,VS,R,BM</b>
Oct 18 2009 12"	11mmT6	PF,PS,OVAL,FNUC,R=F	
<b>NGC 7615</b>		<b>Galaxy Sb?</b>	<b>EF,CS</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 7619</b>		<b>H439-2 Galaxy E</b>	<b>CB,PS,R,PSBM</b>
Aug 02 2019 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
Sep 10 2015 36"	17mmT4	F,S,UB,NND,R=G	
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
Oct 26 2014 12"	11mmT6	PF,PS,R,UB,NND,R=F	
Oct 24 2012 18"	7mm TV	F,PS,OVAL,FNUC,HSB,R=G	
Aug 25 2011 12"	7mm TV	PF,PS,R,FNUC,R=G	
Oct 30 2005 31"	17mmT4	VB,ML,R,FNUC,MSB,R=G	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 7620</b>		<b>Galaxy Scd:</b>	<b>F,S,VLE</b>
Sep 09 2010 12"	5.5mmN	PF,CS,R,FNUC,R=F	
Oct 30 2005 31"	17mmT4	MB,ML,R,FNUC,MSB,R=G	
<b>NGC 7621</b>		<b>Galaxy S</b>	<b>EF,VS,STELLAR</b>
Oct 30 2005 31"	17mmT4	VF,VS,EL,NND,AV,R=F	
<b>NGC 7623</b>		<b>H435-3 Galaxy SA0^:</b>	<b>F,VS,R,PSBM</b>
Oct 26 2014 12"	11mmT6	PF,VS,OVAL,UB,NND,R=P	
Oct 30 2005 31"	17mmT4	VB,VL,OVAL,FNUC,MSB,R=G	
<b>NGC 7624</b>		<b>Galaxy Scd:</b>	<b>VF,LEORIR,DIF,VLBM</b>
Oct 30 2005 31"	17mmT4	MB,ML,OVAL,NND,MSB,R=G	

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<b>NGC 7625</b>		<b>H250-2</b>	<b>Galaxy SA(rs)a pec</b>	<b>PB,CS,R,SMBM</b>
Aug 24 2019 12"	8mm Et	B,S,R,UB,NND,R=G		
Sep 01 2005 8"	7.5mmW	VF,VS,R,NND,AV,R=F		
<b>NGC 7626</b>		<b>H440-2</b>	<b>Galaxy E pec:</b>	<b>CB,PS,R,PSBM</b>
Aug 02 2019 12"	7mm TV	PF,PS,OVAL,NND,R=G.	LITTLE BRIGHTER THAN NGC-7619	
Sep 10 2015 36"	17mmT4	SHOWS DIAGONAL BART IN 36".	R=G	
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,FNUC,R=F		
Oct 26 2014 12"	11mmT6	PF,PS,R,UB,NND,R=F		
Aug 25 2011 12"	7mm TV	PF,PS,R,FNUC,R=G		
Oct 30 2005 31"	17mmT4	VB,ML,R,FNUC,MSB,R=G		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE.	1ST REAL TEST	
<b>NGC 7628</b>			<b>Galaxy E</b>	<b>VF,S,R,BM</b>
Nov 02 2010 31"	17mmT4	F,PS,R,FNUC,HSB,R=G		
Oct 30 2005 31"	17mmT4	MB,ML,OVAL,FNUC,MSB,R=G		
<b>NGC 7630</b>			<b>Galaxy S?</b>	<b>F,S</b>
Oct 30 2005 31"	17mmT4	VF,VS,EL,NND,R=F		
<b>NGC 7631</b>			<b>Galaxy SA(r)b:</b>	<b>VF,VS</b>
Sep 05 2010 12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=40		
Oct 30 2005 31"	17mmT4	MB,ML,EL,NND,R=F		
<b>NGC 7634</b>		<b>H441-2</b>	<b>Galaxy SB0</b>	<b>F,S,F**ATT</b>
Sep 05 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=P,PA=90		
<b>NGC 7641</b>			<b>Galaxy</b>	<b>VF,S,IR,DIF,LBM</b>
Nov 03 2013 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=135		
<b>NGC 7643</b>			<b>Galaxy S?</b>	<b>F,PS,IR,DIF,LBM</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,MEXT,NND,R=G		
<b>NGC 7644</b>			<b>Galaxy</b>	<b>VF,PS,LE</b>
Oct 25 2006 31"	17mmT4	CF,CS,EON,NND,R=F		
<b>NGC 7647</b>		<b>H473-3</b>	<b>Galaxy E</b>	<b>EF,(CL),P A ROWOF ST</b>
Oct 25 2006 31"	17mmT4	CF,CS,OVAL,NND,R=F		
<b>NGC 7648</b>		<b>H218-3</b>	<b>Galaxy S0</b>	<b>VF,PS,LE,BM</b>
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,R=F,PA=135		
<b>NGC 7649</b>			<b>Galaxy E</b>	<b>VF,PL,R</b>
Oct 25 2006 31"	17mmT4	B,L,OVAL,NND,R=G		
<b>NGC 7651</b>			<b>Galaxy cD</b>	<b>EF,S,R</b>
Oct 25 2006 31"	17mmT4	PF,L,OVAL,NND,R=F		

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<b>NGC 7653</b>			<b>Galaxy Sb</b>	<b>VF,PS,R,GBM</b>
Oct 25 2006 31"	17mmT4	PB,L,R,FNUC,MHISB,R=G		
Sep 04 2005 8"	7.5mmW	VF,VVS,R,NND,AV,R=F		
<b>NGC 7660</b>			<b>Galaxy E</b>	<b>F,VS,PSMBM,*10P</b>
Aug 25 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 7664</b>			<b>Galaxy Sc:</b>	<b>VF,*S,2ST11,12P</b>
Sep 04 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 7671</b>		<b>H226-3</b>	<b>Galaxy SA0:</b>	<b>PB,S,R,VSMBM,*9P</b>
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,MEXT,FNUC,R=F		
<b>NGC 7673</b>			<b>Galaxy (R')SAc? pec</b>	<b>F,S,R</b>
Aug 24 2019 12"	8mm Et	F,S,R,UB,NND,R=G		
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 7674</b>			<b>Galaxy SA(r)bc pec</b>	<b>F,CS,GBM,P OF 2</b>
Sep 09 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
<b>NGC 7677</b>			<b>Galaxy SAB(r)bc:</b>	<b>EF,VS,STELL</b>
Aug 24 2019 12"	8mm Et	VF,PS,OVAL,UB,NND,R=F		
Sep 09 2010 12"	5.5mmN	PF,CS,OVAL,MEXT,FNUC,R=F,PA=95, 4 STAR AST TO S.W.		
<b>NGC 7678</b>		<b>H226-2</b>	<b>Galaxy SAB(rs)c</b>	<b>VF,PL,VLE,LBM,AM4ST</b>
Aug 24 2019 12"	8mm Et	VF,PS,OVL,UB,NND,AV2,R=P		
Aug 25 2009 16"	11mmT6	CF,CS,OVAL,NND,R=F		
Sep 04 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
<b>NGC 7680</b>		<b>H860-3</b>	<b>Galaxy S0-:</b>	<b>VF,S,R,LBM,R</b>
Sep 04 2005 8"	7.5mmW	VF,VS,R,FNUC,AV,R=F		
<b>NGC 7691</b>		<b>H213-3</b>	<b>Galaxy SAB(rs)bc</b>	<b>EF,PL,TRI W/2*10</b>
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 7711</b>		<b>H244-2</b>	<b>Galaxy S0</b>	<b>F,S,R,PSBM,STELLAR</b>
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,PEXT,FNUC,R=F,PA=170		
<b>NGC 7712</b>			<b>Galaxy E?</b>	<b>VF</b>
Sep 09 2010 12"	5.5mmN	CF,VS,OVAL,UB,NND,R=F,PA=10		
<b>NGC 7720</b>		<b>H146-3</b>	<b>Galaxy E+ pec:</b>	<b>F,S,LE,BM,AM ST</b>
Sep 12 2004 8"	11mmT6	F,EL,OVAL,NND,AV,F 13.9 (P) MAG.		
<b>NGC 7722</b>			<b>Galaxy S0/a</b>	<b>PB,PL,R,MBM</b>
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,R=G,PA=40		

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<b>NGC 7726</b>		<b>Galaxy SB(s)b</b>	<b>EEF,PS,R,VDIFFIC</b>
Nov 03 2013 36"	17mmT4	DIFF,,PF,CS,OVAL,MEXT,NND,R=F	
<b>NGC 7728</b>		<b>Galaxy E</b>	<b>VF,VS,LE,*10SP</b>
Nov 03 2013 36"	17mmT4	CFR,CS,OVAL,MEXT,FNUC,R=G	
<b>NGC 7729</b>		<b>Galaxy Sa</b>	<b>VF,S,IE,F*INV S</b>
Nov 03 2013 36"	17mmT4	CF,PS,EON,UB,NND,R=F,PA=7	
<b>NGC 7735</b>		<b>Galaxy E</b>	<b>VF,S,VLE,*13NF VNR</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 7737</b>		<b>Galaxy S0/a</b>	<b>VF,S,MBMN</b>
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,MEXT,FNUC,R=G	
<b>NGC 7741</b>		<b>H208-2 Galaxy SB(s)cd</b>	<b>CF,CL,IR,D*10,12NP2'</b>
Aug 24 2019 12"	8mm Et	DIGFGF,PF,S,OVAL,UB,NND,R=F	
Sep 12 2004 8"	11mmT6	B,S,EL,OVAL,FNUC,HISB,G	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 7742</b>		<b>H255-2 Galaxy SA(r)b</b>	<b>CB,CS,GMBM,*12F72"</b>
Aug 24 2019 12"	8mm Et	F,S,R,FNUC,R=G	
Sep 19 2004 8"	7.5mmW	B,EL,OVAL,NND,R=G	
<b>NGC 7743</b>		<b>H256-2 Galaxy (R)SB(s)0+</b>	<b>PF,S,R,*14SF</b>
Aug 24 2019 12"	8mm Et	F,PS,R,FNUC,R=G	
Sep 19 2004 8"	7.5mmW	F,EL,OVAL,NND,R=G	
<b>NGC 7747</b>		<b>Galaxy (R')SB(s)b</b>	<b>VF,VS,IR</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,FNUC,R=F	
<b>NGC 7752</b>		<b>Galaxy I0:</b>	<b>F,S,LE,P 7753</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,MEXT,FNUC,R=F	
<b>NGC 7753</b>		<b>H213-2 Galaxy SAB(rs)bc</b>	<b>CF,CL,VLE,VGLBM,R</b>
Sep 05 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F,PA=100	
<b>NGC 7768</b>		<b>Galaxy E</b>	<b>VF,S,E,*INV,*P VNR</b>
Sep 12 2004 8"	11mmT6	F,EL,OVAL,NND,AV,F 14.0 (P) MAG.	
<b>NGC 7769</b>		<b>H230-2 Galaxy (R)SA(rs)b</b>	<b>PF,PS,R,MBM</b>
Aug 24 2019 12"	8mm Et	F,S,OVAL,UB,NND,R=F	
Sep 10 2015 12"	7mm TV	PF,PS,R,UB,NND,R=F	
Oct 26 2014 12"	11mmT6	PF,S,OVAL,UB,NND,R=G	
Sep 19 2014 18"	8mm Ds	PF,PS,R,FNUC,R=G, WRO - 9/19/14	
Sep 04 2005 8"	11mmT6	MF,ML,R,NND,R=G	

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<b>NGC 7770</b>		<b>Galaxy S0/a?</b>	<b>VF,VS,IR,S OF 2</b>
Oct 26 2014 12"	11mmT6	VF,VS,OVAL,UB,NND,AVII,R=P	
Sep 19 2014 18"	8mm Ds	PF,VS,OVAL,PEXT,UB,NND,R=F,, WRO - 9/19/14	
<b>NGC 7771</b>		<b>H231-2 Galaxy SB(s)a</b>	<b>PB,PL,E84,BM,N OF 2</b>
Aug 24 2019 12"	8mm Et	F,PS,EON,UB,NND,R=F	
Sep 10 2015 12"	7mm TV	VF,PS,OVAL,MEXT,NND,R=F	
Oct 26 2014 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F	
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14	
Sep 04 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F	
<b>NGC 7775</b>		<b>Galaxy Scd:</b>	<b>VF,PS,LE,GLBM</b>
Sep 09 2010 12"	5.5mmN	VF,CS,R,UB,NND,R=F	
<b>NGC 7786</b>		<b>Galaxy S?</b>	<b>PF,PS,LE,VFSTINV,F-2</b>
Sep 09 2010 12"	5.5mmN	CF,VS,OVAL,UB,NND,R=F,PA=55	
<b>NGC 7794</b>		<b>H466-3 Galaxy S?</b>	<b>VF,PS,IR</b>
Sep 09 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F	
<b>NGC 7798</b>		<b>H232-2 Galaxy S</b>	<b>PF,S,R,SBM,*10SP</b>
Aug 24 2019 12"	8mm Et	PF,PS,R,UB,NND,R=F	
Nov 21 2006 8"	11mmT6	VF,PS,OVAL,AV,R=F	
<b>NGC 7800</b>		<b>H10-2 Galaxy Im?</b>	<b>F,PS,E39</b>
Sep 09 2010 12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=95	
<b>NGC 7803</b>		<b>Galaxy S0/a</b>	<b>PF,PS,R,F*NP VNR</b>
Oct 18 2009 12"	11mmT6	PF,PS,R,UB,NND,R=F	
Nov 02 2005 31"	19mmW	PB,PL,OVAL,FNUC,MSB,R=G	
<b>NGC 7805</b>		<b>H855-3 Galaxy SAB0^: pec</b>	<b>EF,S,R,SBM,SP OF 2</b>
Nov 02 2005 31"	19mmW	PB,PL,OVAL,FNUC,MSB,R=G	
<b>NGC 7806</b>		<b>H856-3 Galaxy SA(rs)bc? pec</b>	<b>EF,S,R,NF OF 2,STELL</b>
Nov 02 2005 31"	19mmW	PB,PL,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 7810</b>		<b>H984-3 Galaxy S0</b>	<b>PF,STELL,2*NP INLINE</b>
Nov 02 2005 31"	19mmW	PBML,OVAL,FNUC,MSB,R=G	
<b>NGC 7814</b>		<b>H240-2 Galaxy SA(s)ab: sp</b>	<b>CB,CL,E,VGBM</b>
Oct 09 2018 12"	8mm Et	F,S,OVAL,MEXTY,R=F	
Sep 24 2016 12"	8mm Et	B,S,EON,FNUC,R=G	
Aug 21 2015 12"	8mm Ds		
Aug 25 2009 16"	11mmT6	PF,PS,EON,FNUC,R=F	
Oct 30 2008 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
Nov 10 2007 31"	17mmT4	PB,PL,EL,OVAL,UB,NND,R=G	

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<b>NGC 7814</b>		<b>H240-2</b>	<b>Galaxy SA(s)ab: sp</b>	<b>CB,CL,E,VGBM</b>
Jul 23 2006 8"	11mmT6	CF,CS,OVAL,NND,AV,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
<b>NGC 7817</b>		<b>H227-2</b>	<b>Galaxy SAbc: sp</b>	<b>PF,CL,ME45,LBM</b>
Sep 24 2016 12"	8mm Et	VF,PS,OVAL,MEXT,NND,R=F		
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, WRO - 9/13/14		
Aug 25 2009 16"	11mmT6	DIFF,CF,PS,EON,NND,R=F		
Sep 15 2004 8"	7.5mmW	EF,OVAL,PATCH,NND,AV,R=F		
<b>NGC 7819</b>			<b>Galaxy SB(s)b</b>	<b>EF,L</b>
Aug 25 2009 16"	11mmT6	VF,VS,R,NND,AV,R=F		
Nov 02 2005 31"	19mmW	PF,ML,OVAL,NND,R=F		
<b>PAL 13</b>			<b>Globular</b>	
Nov 02 2005 31"	19mmW	PF,PS,PATCHY,R=F, CAN'T RESOLVE STARS		
<b>PEASE 1</b>			<b>Planetary Neb 1</b>	
Sep 27 2005 31"	17mmT4	VB,VS,R=F		
<b>PGC 25</b>			<b>Galaxy Double System</b>	
Sep 19 2014 18"	8mm Ds	VF,VS,OVAL,MEXT,NND,R=F, WRO - 9/13/14		
<b>PGC 108</b>			<b>Galaxy S?</b>	
Nov 02 2005 31"	19mmW	MF,PL,OVAL,NND,R=F		
<b>PGC 120</b>			<b>Galaxy (R)S(r)cd: pec</b>	
Sep 19 2014 18"	8mm Ds	PF,VS,OVAL,UB,NND,R=F, WRO - 9/19/14		
<b>PGC 134</b>			<b>Galaxy</b>	
Nov 02 2005 31"	19mmW	PF,PS,R,NND,R=F		
<b>PGC 619</b>			<b>Galaxy Scd:</b>	
Nov 02 2005 31"	19mmW	MF,ML,OVAL,NND,R=F		
<b>PGC 847</b>			<b>Galaxy Sa</b>	
Nov 02 2005 31"	19mmW	PF,PS,EL,OVAL,R=F		
<b>PGC 878</b>			<b>Galaxy S?</b>	
Nov 02 2005 31"	19mmW	B,ML,OVAL,FNUC,R=F		
<b>PGC 911</b>			<b>Galaxy S</b>	
Nov 02 2005 31"	19mmW	VF,VS,R,NND,AV,R=F		
<b>PGC 66966</b>			<b>Galaxy E</b>	
Sep 25 2006 31"	19mmW	PF,VS,OVAL,NND,R=F		

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<b>PGC 67153</b>			<b>Galaxy S?</b>
Sep 25 2006 31"	19mmW	VF,VS,EON,NND,AV,R=F	
<b>PGC 67741</b>			<b>Galaxy C</b>
Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 67762</b>			<b>Galaxy</b>
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F	
<b>PGC 67897</b>			<b>Galaxy SB?</b>
Sep 01 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>PGC 68011</b>			<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4	VF,S,EON,NND,R=F	
<b>PGC 68259</b>			<b>Galaxy Sa</b>
Oct 23 2008 31"	17mmT4	F,S,R,NND,R=F	
<b>PGC 68325</b>			<b>Galaxy</b>
Oct 23 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P	
<b>PGC 68327</b>			<b>Galaxy SBcd?</b>
Oct 23 2008 31"	17mmT4	VF,CS,EON,NND,AV,R=P	
<b>PGC 68331</b>			<b>Galaxy</b>
Oct 23 2008 31"	17mmT4	F,VS,OVAL,NND,AV,R=F	
<b>PGC 68341</b>			<b>Galaxy Sab</b>
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
<b>PGC 68343</b>			<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4	VF,S,R,NND,AV,R=P	
<b>PGC 68348</b>			<b>Galaxy Sc</b>
Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=P	
<b>PGC 68356</b>			<b>Galaxy</b>
Oct 23 2008 31"	17mmT4	F,VS,R,UB,NND,R=F	
<b>PGC 68368</b>			<b>Galaxy C</b>
Oct 23 2008 31"	17mmT4	F,CS,R,NND,R=F	
<b>PGC 68393</b>			<b>Galaxy</b>
Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 68543</b>			<b>Galaxy SA(s)c</b>
Oct 23 2008 31"	17mmT4	VF,S,R,NND,AV,R=F	

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<b>PGC 68617</b>			<b>Galaxy Sbc</b>
Oct 30 2005 31"	17mmT4	MB,ML,EON,FNUC,R=F	
<b>PGC 68664</b>			<b>Galaxy SBc</b>
Sep 25 2006 31"	19mmW	VF,CS,OVAL,NND,AV,R=F	
<b>PGC 68952</b>			<b>Galaxy C</b>
Sep 01 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F	
Oct 23 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>PGC 69025</b>			<b>Galaxy S</b>
Sep 01 2011 31"	17mmT4	CF,VS,R,UB,NND,AV3,R=P	
<b>PGC 69095</b>			<b>Galaxy SBb</b>
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
<b>PGC 69148</b>			<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
<b>PGC 69220</b>			<b>Galaxy Sd:</b>
Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 69245</b>			<b>Galaxy</b>
Sep 14 2012 36"	17mmT4	VF,VS,R,UB,NND,AV3,R=F,ABUTS NGC-7315	
<b>PGC 69281</b>			<b>Galaxy Sb</b>
Oct 23 2008 31"	17mmT4	CF,CS,EL,OVAL,UB,NND,R=F	
<b>PGC 69305</b>			<b>Galaxy S0</b>
Oct 23 2008 31"	17mmT4	F,S,OVAL,NND,R=F	
<b>PGC 69351</b>			<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F	
<b>PGC 69360</b>			<b>Galaxy S0</b>
Oct 23 2008 31"	17mmT4	F,S,OVAL,,NND,R=F	
<b>PGC 69387</b>			<b>Galaxy E</b>
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
<b>PGC 69402</b>			<b>Galaxy SB?b</b>
Oct 23 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F	
<b>PGC 69434</b>			<b>Galaxy S?</b>
Oct 23 2008 31"	17mmT4	F,S,R,UB,NND,R=F	
<b>PGC 69457</b>			<b>Galaxy Sab</b>



## Pegasus - The Winged Horse

<b>PGC 69457</b>		<b>Galaxy Sab</b>
Sep 11 2007 31"	12mmT4	PF,PS,OVAL,UB,NND,R=F,HINT OF HALO?
<b>PGC 69486</b>		<b>Galaxy SB0/a</b>
Oct 23 2008 31"	17mmT4	F,CS,OVAL,UB,NND,R=F
<b>PGC 69493</b>		<b>Galaxy S0</b>
Oct 23 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F
<b>PGC 69524</b>		<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4	CF,CS,EON,NND,AV,R=F
<b>PGC 69559</b>		<b>Galaxy Sb</b>
Nov 02 2010 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F
<b>PGC 69675</b>		<b>Galaxy</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,FNUC,R=F,PAIRED W/NGC-7374
<b>PGC 69858</b>		<b>Galaxy S0?</b>
Aug 25 2011 12"	5mm TV	VF,VS,R,UB,NND,AV,R=P
<b>PGC 69955</b>		<b>Galaxy</b>
Nov 03 2013 36"	17mmT4	VF,VS,R,NND,R=F
<b>PGC 69984</b>		<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-7415
<b>PGC 69986</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	CF,ES,R,UB,NND,R=F
<b>PGC 70001</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	PF,ES,R,UB,NND,R=F,STAR AT NNW EDGE
<b>PGC 70019</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	PF,ES,R,FNUC,R=F
<b>PGC 70022</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	CF,ES,R,UB,NND,R=F
<b>PGC 70023</b>		<b>Galaxy Sb</b>
Nov 02 2010 31"	17mmT4	PF,ES,R,UB,NND,R=P,STAR AT SW EDGE
<b>PGC 70054</b>		<b>Galaxy Sc</b>
Nov 02 2010 31"	17mmT4	CF,VS,R,UB,NND,R=F
<b>PGC 70055</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	PF,ES,R,UB,NND,R=F

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<b>PGC 70063</b>		<b>Galaxy SB?</b>
Nov 02 2010 31"	17mmT4	CF,VS,OVAL,PEXT,UB,NND,R=F,STAR AT SSE EDGE
<b>PGC 70064</b>		<b>Galaxy Sa</b>
Nov 02 2010 31"	17mmT4	PF,PS,EON,FNUC,MSB,R=G,FAINT BULGE DETECTED
<b>PGC 70111</b>		<b>Galaxy C</b>
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F
<b>PGC 70115</b>		<b>Galaxy</b>
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F
<b>PGC 70136</b>		<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F
<b>PGC 70162</b>		<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4	VF,PS,R,UB,NND,AV1,R=F
<b>PGC 70174</b>		<b>Galaxy S</b>
Oct 15 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F
<b>PGC 70175</b>		<b>Galaxy Sdm:</b>
Nov 03 2013 36"	17mmT4	VF,CS,EON,UB,NND,R=F,PA=30
<b>PGC 70180</b>		<b>Galaxy</b>
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F
<b>PGC 70190</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	PF,VS,R,FNUC,R=G
<b>PGC 70200</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	CF,CS,OVAL,UB,R=F
<b>PGC 70210</b>		<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	PF,VS,R,FNUC,,R=F
<b>PGC 70211</b>		<b>Galaxy SB</b>
Oct 15 2006 31"	19mmW	CF,CS,R,NND,AV,R=F
<b>PGC 70228</b>		<b>Galaxy Sc</b>
Nov 02 2010 31"	17mmT4	VF,CS,OVAL,PET,UB,NND,R=F,AV2
<b>PGC 70247</b>		<b>Galaxy Sc</b>
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F
<b>PGC 70254</b>		<b>Galaxy S0/a</b>
Oct 15 2006 31"	19mmW	PF,PS,EON,NND,R=F

## Pegasus - The Winged Horse

<b>PGC 70269</b>			<b>Galaxy</b>
Oct 15 2006 31"	19mmW	PF,PS,R,NND,R=F	
<b>PGC 70275</b>			<b>Galaxy S?</b>
Oct 15 2006 31"	19mmW	PF,PS,EL,OVAL,NND,R=F	
<b>PGC 70307</b>			<b>Galaxy Sb-c</b>
Nov 02 2010 31"	17mmT4	VF,VS,EON,NND,R=F,AV4	
<b>PGC 70326</b>			<b>Galaxy S0/a</b>
Oct 15 2006 31"	19mmW	VF,VS,OVAL,NND,R=F	
<b>PGC 70374</b>			<b>Galaxy SB0</b>
Oct 15 2006 31"	19mmW	VF,CS,OVAL,NND,R=F	
<b>PGC 70403</b>			<b>Galaxy S</b>
Oct 15 2006 31"	19mmW	VF,VS,OVAL,NND,R=F	
<b>PGC 70404</b>			<b>Galaxy S</b>
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
<b>PGC 70445</b>			<b>Galaxy S?</b>
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
<b>PGC 70463</b>			<b>Galaxy Sb-c</b>
Oct 15 2006 31"	19mmW	CF,CS,EON,NND,R=F	
<b>PGC 70537</b>			<b>Galaxy SBb/Sb</b>
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
<b>PGC 70842</b>			<b>Galaxy E?</b>
Oct 30 2008 31"	17mmT4	MF,MS,R,NND,R=F	
<b>PGC 71054</b>			<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>PGC 71080</b>			<b>Galaxy S?</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>PGC 71085</b>			<b>Galaxy Dwarf?</b>
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,PEXT,UB,NND,AV2,R=F	
<b>PGC 71092</b>			<b>Galaxy S0</b>
Nov 02 2010 31"	17mmT4	PF,CS,OVAL,FNUC,R=G,PA=170, 8TH MAG STAR AT WEST EDGE	
<b>PGC 71094</b>			<b>Galaxy Sc-Irr</b>
Nov 02 2010 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,AV4	

## Pegasus - The Winged Horse

<b>PGC 71101</b>			<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	PF,CS,OVAL,FNUC,R=F	
<b>PGC 71119</b>			<b>Galaxy S?</b>
Nov 02 2010 31"	17mmT4	CF,VS,OVAL,UB,NND,R=F	
<b>PGC 71156</b>			<b>Galaxy</b>
Nov 02 2010 31"	17mmT4	CF,ES,R,UB,NND,R=F	
<b>PGC 71299</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	CF,CS,OVAL,NND,R=F	
<b>PGC 71315</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	CF,CS,R,NND,AV,R=F	
<b>PGC 71317</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>PGC 71319</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	F,CS,OVAL,NND,R=F	
<b>PGC 71320</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F	
<b>PGC 71322</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	EF,ES,R,NND,AV,R=F	
<b>PGC 71323</b>			<b>Galaxy Sc</b>
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>PGC 71324</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	CF,PS,OVAL,FNUC,R=F	
<b>PGC 71326</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	VF,PS,R,NND,AV,R=F	
<b>PGC 71327</b>			<b>Galaxy E</b>
Oct 25 2006 31"	17mmT4	EF,ES,R,AV,R=F	
<b>PGC 71330</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F	
<b>PGC 71331</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	VF,PS,R,NND,R=F	
<b>PGC 71332</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	PF,CS,OVAL,NND,R=F	

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<b>PGC 71337</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	VF,PS,R,NND,R=F	
<b>PGC 71342</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	CF,PS,R,NND,R=F	
<b>PGC 71355</b>			<b>Galaxy SB?</b>
Oct 25 2006 31"	17mmT4	CF,L,OVAL,PATCHY,NND,R=F	
<b>PGC 71359</b>			<b>Galaxy SBab</b>
Oct 25 2006 31"	17mmT4	PF,L,OVALNND,R=F	
<b>PGC 71371</b>			<b>Galaxy L</b>
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>PGC 71374</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>PGC 71386</b>			<b>Galaxy S0/a</b>
Oct 25 2006 31"	17mmT4	PB,PS,EON,FNUC,MHISB,R=G	
<b>PGC 71398</b>			<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	PF,L,R,NND,R=F	
<b>PGC 72179</b>			<b>Galaxy S?</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>PGC 72341</b>			<b>Galaxy C</b>
Nov 03 2013 36"	17mmT4	PF,VS,OVAL,UB,NND,R=F	
<b>PGC 72346</b>			<b>Galaxy Sd</b>
Nov 03 2013 36"	17mmT4	VF,VS,R,UB,NND,R=F	
<b>UGC 12914</b>			<b>Galaxy</b>
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,PEXT,UB,NND,R=F,PA=30,PAIRED W/UGC 12915	
<b>UGC 12915</b>			<b>Galaxy</b>
Sep 09 2010 12"	5.5mmN	CF,CS,OVAL,MET,UB,NND,R=F,PA=20,PAIRED W/UGC 12914	

## Perseus - Rescuer of Andromeda

<b>CR</b>	<b>39</b>		<b>Open Cluster III3m</b>		
	Oct 30 2007	1.9"	12x50	PB,EL,R=G, MASSIVE CLUSTER	
	Nov 09 2006	8"	19mmW	VL,NO COMPRESSION,R=F	
<b>IC</b>	<b>257</b>		<b>Galaxy S0-</b>		
	Oct 10 2012	18"	8.8 ES	PF,S,OVAL,UB,NND,R=G	
<b>IC</b>	<b>284</b>		<b>Galaxy SAdm</b>		
	Oct 10 2012	18"	8.8 ES	PF,S,OVAL,MEXT,UB,NND,AV,R=F	
	Nov 21 2006	8"	11mmT6	VF,S,OVAL,NND,AV,R=F	
	Nov 09 2004	8"	7.5mmW	VF,EL,OVAL,NND,AV,R=F	
<b>IC</b>	<b>293</b>		<b>Galaxy E-S0</b>		
	Dec 13 2012	18"	7mm TV	VF,VS,R,UB,NND,R=F	
<b>IC</b>	<b>301</b>		<b>Galaxy E</b>		
	Dec 13 2012	18"	8.8 ES	PF,PS,R,FNUC,AV,R=F,NUCLEUS POPS IN/OUT WITH AV.	
	Oct 10 2012	18"	8.8 ES	DIFF,PF,PS,R,UB,NND,R=F	
<b>IC</b>	<b>309</b>		<b>Galaxy SA(s)0^</b>		
	Dec 13 2012	18"	7mm TV	PF,PS,R,FNUC,R=F	
<b>IC</b>	<b>348</b>		<b>Open Cluster 10.0 III 2 p n</b>		
	Nov 09 2004	8"	11mmT6	LOOSE GROUP - NOT MANY STARS	
<b>IC</b>	<b>351</b>		<b>Planetary Neb 2a</b>		
	Dec 18 2006	31"	20mmUV	PB,VS,R,R=G	
<b>IC</b>	<b>1907</b>		<b>Galaxy E?</b>		
	Nov 10 2012	18"	7mm TV	DIFF,VF,PS,R,UB,NND,R=F	
	Oct 07 2010	12"	5.5mmN	CF,CS,R,UB,NND,R=F,AV-1	
<b>IC</b>	<b>2003</b>		<b>Planetary Neb 2</b>		
	Dec 18 2006	31"	20mmUV	B,VS,R,R=G	
<b>MAC</b>	<b>0310+4200</b>		<b>Galaxy</b>		
	Dec 13 2012	18"	8.8 ES	VFR,VS,R,NND,AV3,R=P	
<b>NGC</b>	<b>650</b>	<b>M76</b>	<b>H193-1</b>	<b>Planetary Neb 3+6</b>	<b>VB,P OF DNEB</b>
	Oct 09 2018	12"	8mm Et	F,S,R=E. LP2	
	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	

## Perseus - Rescuer of Andromeda

<b>NGC 650</b>	<b>M76</b>	<b>H193-1</b>	<b>Planetary Neb 3+6</b>	<b>VB,P OF DNEB</b>
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 744</b>			<b>Open Cluster 10.0 III 1 p</b>	<b>CL,PL,PRI,IF,*11..13</b>
Oct 09 2007 8"	11mmT6	PF,PL,TIGHTER GROUP, R=F		
<b>NGC 869</b>		<b>H33-6</b>	<b>Open Cluster 6.6 I 3 r</b>	<b>CL,VVL,VRI,*7...14</b>
Aug 24 2019 12"	35mm A	BEST OPEN CLUSTER GROUP		
Oct 09 2018 12"	35mm A	BEST CLUSTER OF THE NIGHT, DOUBLE CLUSTER		
Jan 25 2018 12"	35mm A	NICE OBJECT		
Sep 24 2016 12"	17mmT4	GREAT OBJECT.		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	35mm A			
Oct 21 2012 8"	25mmPL	NICE BUT NOT AS NICE AS WRO		
Oct 12 2012 18"	35mm A	DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2006 8"	19mmW	B,L,LOOSE,R,R=G		
Oct 13 2006 1.9"	12x50	PB,PL,R=G		
Oct 01 2006 1.9"	12x50	B,L,R=G, TIGHT GROUP		
Sep 01 2005 8"	7.5mmW	VB,R,R=G. BEAUTY - DOUBLE CLUSTER		
Oct 31 2004 1.9"	12x50	VERY NICE IN BINOCULARS		
Dec 31 2003 8"	25mmPL	H/M COLD		
<b>NGC 884</b>		<b>H34-6</b>	<b>Open Cluster 6.4 I 3 r</b>	<b>CL,VL,VRI,RUBY*M</b>
Aug 24 2019 12"	35mm A	BEST OPEN CLUSTER GROUP		
Oct 09 2018 12"	35mm A	BEST CLUSTER OF THE NIGHT. DOUBLE CLUSTER		
Jan 25 2018 12"	35mm A	NICE OBJECT		
Sep 24 2016 12"	17mmT4	GREAT OBJECT.		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	35mm A			
Oct 21 2012 8"	25mmPL	NICE BUT NOT AS NICE AS WRO		
Oct 12 2012 18"	35mm A	DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2006 8"	19mmW	B,L,COMPRESSED,R,R=G		
Oct 13 2006 1.9"	12x50	PB,PL,R=G		
Oct 01 2006 1.9"	12x50	PB,PL,R=G, LITTLE LOOSER		
Sep 01 2005 8"	7.5mmW	VB,R,R=G. BEAUTY - DOUBLE CLUSTER		
Oct 31 2004 1.9"	12x50	VERY NICE IN BINOCULARS		
Dec 31 2003 8"	25mmPL	H/M COLD		
<b>NGC 957</b>			<b>Open Cluster 11.0 III 2 m</b>	<b>CL,PL,PRI,*13...15</b>
Oct 09 2007 8"	11mmT6	PF,PS,TIGHTER GROUP, R=F		
<b>NGC 1003</b>		<b>H238-2</b>	<b>Galaxy SA(s)cd</b>	<b>PF,L,E90,MBM,R</b>
Nov 09 2004 8"	7.5mmW	VF,EL,EON,NND,AV,R=G		

## Perseus - Rescuer of Andromeda

<b>NGC 1023</b>		<b>H156-1</b>	<b>Galaxy SB(rs)0-</b>	<b>VB,VL,VME,VVMBM</b>
Sep 09 2010 12"	17mmAT	B,S,EON,BNUC,R=G,PA=165		
Oct 10 2004 8"	11mmT6	MB,EL,RNUC,R=G		
<b>NGC 1039</b>	<b>M34</b>		<b>Open Cluster 9.0 II 3 r</b>	<b>CL,B,VL,LC,SC ST9</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 1050</b>			<b>Galaxy (R')SB(s)a</b>	<b>F,S,*18INV N</b>
Oct 25 2009 12"	7.5mmW	VF,VS,OVAL,UB,NND,AV,R=F		
<b>NGC 1053</b>			<b>Galaxy S0</b>	<b>VF,VS,LE,3OR4*LINENR</b>
Oct 25 2009 12"	7.5mmW	VF,S,OVAL,UB,NND,R=F		
<b>NGC 1058</b>		<b>H633-2</b>	<b>Galaxy SA(rs)c</b>	<b>PF,CL,R,GLBM</b>
Nov 09 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 1077</b>			<b>Non-Existent</b>	<b>VF,PL,E</b>
Oct 31 2010 12"	5.5mmN	VF,CS,OVAL,NND,AV4,R=F		
<b>NGC 1086</b>			<b>Galaxy Scd:</b>	<b>VF,PS,D* NR</b>
Oct 25 2009 12"	7.5mmW	VF,S,OVAL,NND,R=F		
<b>NGC 1106</b>			<b>Galaxy SA0+</b>	<b>VF,VS,VF*ATT S</b>
Oct 25 2009 12"	7.5mmW	F,S,OVAL,UB,NND,R=F		
<b>NGC 1122</b>		<b>H601-2</b>	<b>Galaxy SBb</b>	<b>VF,PS,R,*NR N</b>
Oct 25 2009 12"	7.5mmW	F,S,OVAL,PATCHY,NND,R=F		
<b>NGC 1129</b>		<b>H602-2</b>	<b>Galaxy E</b>	<b>CF,PS,IR,VGLBM, F*SP</b>
Nov 09 2004 8"	7.5mmW	VF,EL,NND,AV,RF=F		
<b>NGC 1138</b>		<b>H580-3</b>	<b>Galaxy SB0</b>	<b>VF,VS,R,GBM,2S* TRI</b>
Oct 31 2010 12"	5.5mmN	PF,PS,R,UB,NND,R=F. STAR IN FRONT.		
<b>NGC 1160</b>		<b>H199-3</b>	<b>Galaxy Scd:</b>	<b>F,E</b>
Oct 25 2009 12"	7.5mmW	VF,VS,EL,OVAL,NND,AV,R=F		
<b>NGC 1161</b>		<b>H239-2</b>	<b>Galaxy S0</b>	<b>F,PS,LE,SBM</b>
Oct 25 2009 12"	7.5mmW	PF,PS,OVAL,FNUC,R=F		
Nov 09 2004 8"	7.5mmW	MB,EL,EON,FNUC,MSB,R=G		



## Perseus - Rescuer of Andromeda

<b>NGC 1164</b>			<b>Galaxy (R')SAB(s)ab</b>	<b>EF,VS</b>
Oct 31 2010	12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F,AV3	
<b>NGC 1167</b>		<b>H178-3</b>	<b>Galaxy SA0-</b>	<b>VF,PL,R,SPMBM</b>
Oct 25 2009	12"	7.5mmW	VF,PS,R,UB,NND,R=F	
<b>NGC 1169</b>		<b>H620-2</b>	<b>Galaxy SAB(r)b</b>	<b>PF,PS,IF,SBM</b>
Oct 25 2009	12"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F	
Nov 09 2004	8"	7.5mmW	VF,EL,EON,NND,AV,R=F	
Oct 10 2004	8"	11mmT6	VF,EL,NND,AV,R=F	
<b>NGC 1171</b>			<b>Galaxy Scd:</b>	<b>VF,PL,IF</b>
Oct 25 2009	12"	7.5mmW	F,PS,EON,UB,NND,R=F	
<b>NGC 1175</b>		<b>H607-2</b>	<b>Galaxy SA(r)0+</b>	<b>F,CL,E</b>
Oct 25 2009	12"	7.5mmW	F,PS,EON,FNUC,R=F	
<b>NGC 1186</b>		<b>H43-4</b>	<b>Galaxy SB</b>	<b>F*W/NEB APPENDAGES</b>
Oct 25 2009	12"	7.5mmW	VF,PS,EON,NND,AV,R=F	
<b>NGC 1193</b>		<b>H608-2</b>	<b>Open Cluster 14.0 I 2 m</b>	<b>F,CL,ER</b>
Oct 09 2007	8"	11mmT6	PF,PS,LOOSE GROUP, R=F	
<b>NGC 1198</b>			<b>Galaxy S0-:</b>	<b>NEB*11</b>
Oct 25 2009	12"	7.5mmW	F,PS,OVAL,UB,NND,R=F	
<b>NGC 1207</b>		<b>H578-3</b>	<b>Galaxy SA(rs)b</b>	<b>CF,VS,R,PSB INNPPEND</b>
Nov 10 2012	18"	7mm TV	PF,VS,OVAL,UB,NND,R=F	
Nov 11 2009	12"	7.5mmW	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 1213</b>			<b>Galaxy SA(s)dm</b>	<b>EF,LE,*CLOSEN,DIFFIC</b>
Nov 10 2012	18"	7mm TV	VF,VS,OVAL,UB,NND,AV2,R=F	
<b>NGC 1220</b>			<b>Open Cluster 13.0 I 1 p</b>	<b>CL,VS,STVF</b>
Oct 09 2007	8"	11mmT6	PF,PS,LOOSE GROUP, R=F	
<b>NGC 1224</b>			<b>Galaxy S0-:</b>	<b>EF,VS,R</b>
Dec 13 2012	18"	7mm TV	PF,PS,R,FNUC,R=G	
<b>NGC 1226</b>			<b>Galaxy E</b>	<b>F,VS,R,BM</b>
Oct 31 2010	12"	5.5mmN	CF,PS,R,UB,NND,R=F,AV1	
<b>NGC 1233</b>			<b>Galaxy Sb</b>	<b>F,VS,R,DIFF</b>
Nov 11 2009	12"	7.5mmW	VF,VS,OVAL,VEXT,UB,NND,R=F	
<b>NGC 1235</b>			<b>Non-Existent</b>	<b>VF,S,LE</b>
Nov 11 2009	12"	7.5mmW	MEGASTAR 5 CALLS IT A TRIPLE STAR - NOTHING ELSE NOTED.	

## Perseus - Rescuer of Andromeda

<b>NGC 1245</b>		<b>H25-6</b>	<b>Open Cluster 12.0 II 2 r</b>	<b>CL,PL,RI,C,IR,*12.15</b>
Nov 09 2004 8"	7.5mmW	MANY STARS - FAINT		
<b>NGC 1250</b>			<b>Galaxy S0<sup>+</sup>: sp</b>	<b>VF,VS,R</b>
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,PEXT,FNUC,R=F		
Oct 31 2010 12"	5.5mmN	CF,PS,EON,UB,NND,R=F		
<b>NGC 1257</b>			<b>Galaxy Sa</b>	<b>STELLAR NEB</b>
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F		
<b>NGC 1259</b>			<b>Galaxy S0</b>	<b>VF,S,R,VLBM</b>
Dec 13 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F		
<b>NGC 1260</b>			<b>Galaxy S0/a: sp</b>	<b>VF,S,R</b>
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Oct 31 2010 12"	5.5mmN	PF,CS,OVAL,UB,NND,R=F,PA=160		
<b>NGC 1264</b>			<b>Galaxy SBa-b</b>	<b>VF,S,VLBM</b>
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 1265</b>			<b>Galaxy E+</b>	<b>VF,VS,MBM,</b>
Oct 07 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
<b>NGC 1267</b>			<b>Galaxy E+:</b>	<b>F,VS,R,STELL</b>
Nov 10 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F		
<b>NGC 1268</b>			<b>Galaxy SAB(rs)b:</b>	<b>EF,S,LE,COM</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,FNUC,R=F		
Oct 07 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
<b>NGC 1270</b>			<b>Galaxy E:</b>	<b>VF,S,R</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Nov 11 2009 12"	7.5mmW	VF,VS,R,UB,NND,AV,R=F		
<b>NGC 1272</b>			<b>Galaxy E+</b>	<b>F,S,R</b>
Nov 10 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F		
Oct 07 2010 12"	7mm TV	CF,PS,R,UB,NND,R=F		
Nov 11 2009 12"	7.5mmW	VF,PS,R,UB,NND,R=F		
Nov 09 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
<b>NGC 1273</b>			<b>Galaxy SA(r)0<sup>+</sup>?</b>	<b>VF,VS</b>
Nov 10 2012 18"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
Nov 11 2009 12"	7.5mmW	VF,VS,OVAL,MEXT,UB,NND,AV,R=F		
<b>NGC 1274</b>			<b>Galaxy E3</b>	<b>VF,VS</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		

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<b>NGC 1275</b>		<b>H603-2</b>	<b>Galaxy Pec</b>	<b>F,S</b>
Nov 10 2012 18"	7mm TV	PF,PS,R,FNUC,MSB,R=F		
Oct 07 2010 12"	7mm TV	PF,PS,R,FNUC,R=F		
Nov 11 2009 12"	7.5mmW	PF,PS,R,FNUC,R=F		
Nov 09 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
<b>NGC 1277</b>			<b>Galaxy S0+: pec</b>	<b>VF,VS,NP1278</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
<b>NGC 1278</b>			<b>Galaxy E pec:</b>	<b>PB,PS,R,BM</b>
Oct 07 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
<b>NGC 1282</b>			<b>Galaxy E:</b>	<b>VF,S,LBMN</b>
Oct 10 2012 18"	8.8 ES	F,PS,OVAL,UB,NND,R=F		
<b>NGC 1283</b>			<b>Galaxy E1:</b>	<b>VF,S,VLBM</b>
Oct 10 2012 18"	8.8 ES	F,VS,OVAL,UB,NND,R=F		
<b>NGC 1342</b>		<b>H88-8</b>	<b>Open Cluster 8.0 III 2 m</b>	<b>CL,VL,AB60*</b>
Nov 21 2006 8"	11mmT6	B,L,LOOSE,30+STARS,R=G		
Oct 29 2006 8"	19mmW	B,COARSE CL, R,R=F		
<b>NGC 1348</b>		<b>H84-8</b>	<b>Open Cluster 8.5 III 2 m</b>	<b>CL,LRI,ST L</b>
Nov 11 2009 12"	7.5mmW	PF,VS,R=F JUST A FEW STARS		
<b>NGC 1444</b>		<b>H80-8</b>	<b>Open Cluster 6.8 IV 1 p</b>	<b>CL OF AB30*12...14</b>
Nov 21 2006 8"	11mmT6	F,PS,COMPRESSED,R=F		
<b>NGC 1465</b>			<b>Galaxy S0/a</b>	<b>PF,PS,R,PB*NR P</b>
Oct 10 2012 18"	8.8 ES	PF,PS,EON,UB,NND,R=F		
Dec 18 2006 31"	20mmUV	B,L,EON,NND,R=G		
<b>NGC 1491</b>		<b>H258-1</b>	<b>Nebula E</b>	<b>VB,S,IF,BM,R,*INV</b>
Oct 31 2010 12"	11mmT6	PF,S,R=G,UHC FILTER,IRREGULAR IN SHAPE		
<b>NGC 1513</b>		<b>H60-7</b>	<b>Open Cluster 11.0 II 1 m</b>	<b>CL,L,VRI,PC,ST VL</b>
Nov 21 2006 8"	11mmT6	F,L,COMPRESSED,R=F		
<b>NGC 1528</b>		<b>H61-7</b>	<b>Open Cluster 10.0 II 2 m</b>	<b>CL,B,VRI,CC</b>
Oct 09 2018 12"	8mm Et	B,L,R=F		
Nov 27 2006 1.9"	12x50	F,PS,COARSE GROUP,R=F		
Nov 21 2006 8"	11mmT6	PB,PL,LOOSE GROUP,R=G		
<b>NGC 1545</b>		<b>H85-8</b>	<b>Open Cluster 9.0 IV 2 p</b>	<b>CL,PRI,LC,ST L</b>
Nov 21 2006 8"	11mmT6	B,L,VERY LOOSE,R=F		
<b>NGC 1579</b>		<b>H217-1</b>	<b>Nebula R</b>	<b>PB,VL,IR,MBM,*8 2'NF</b>

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<b>NGC 1579</b>		<b>H217-1</b>	<b>Nebula R</b>	<b>PB,VL,IR,MBM,*8 2'NF</b>
Oct 12 2012 18"	7mm TV	PF,S,NICE NEBULA,OIII NO HELP.R=G, FOUND LOOING FOR PAL2		
Oct 31 2010 12"	11mmT6	PF,PS,R=F. FILTER NO HELP		
<b>NGC 1582</b>		<b>H70-8</b>	<b>Open Cluster 9.0 IV 2 p</b>	<b>CL,VL,PRI,LC,ST L</b>
Nov 04 2007 1.9"	12x50	PB,PL,LOOSE,R=F		
<b>NGC 1605</b>		<b>H26-6</b>	<b>Open Cluster 12.5 III 1 m</b>	<b>CL,VF,PS,C,ST ES</b>
Oct 31 2010 12"	11mmT6	PF,PS,R=F		
<b>NGC 1624</b>		<b>H49-5</b>	<b>Open Cluster II 1 p n</b>	<b>F,CL,IF,60R7*+NEB</b>
Oct 31 2010 12"	11mmT6	PF,PS,R=F, BETTER GROUP		
<b>PGC 10047</b>			<b>Galaxy Sc</b>	
Oct 10 2012 18"	8.8 ES	VF,PS,OVAL,UB,AV2,R=P		
<b>PGC 11210</b>			<b>Galaxy SA(s)cd</b>	
Nov 10 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,R=F		
<b>PGC 11281</b>			<b>Galaxy</b>	
Aug 24 2012 18"	5mm TV	VF,PS,EON,NND,AV2,R=F, AKA/UGC-11281		
<b>PGC 11369</b>			<b>Galaxy IAm</b>	
Nov 10 2012 18"	7mm TV	VF,VS,EON,UB,NND,R=F,PA=80		
<b>PGC 11434</b>			<b>Galaxy Compact group</b>	
Nov 10 2012 18"	7mm TV	PF,VS,R,UB,NND,R=F		
<b>PGC 11437</b>			<b>Galaxy SB(r)0/a</b>	
Nov 10 2012 18"	7mm TV	PF,VS,OVAL,UB,FNUC,R=F		
<b>PGC 11444</b>			<b>Galaxy Double System</b>	
Nov 10 2012 18"	7mm TV	VF,VS,EON,UB,NND,R=P,PA=125		
<b>PGC 11447</b>			<b>Galaxy S?</b>	
Nov 10 2012 18"	7mm TV	PF,VS,EON,UB,NND,R=F,PA=90		
<b>PGC 11625</b>			<b>Galaxy Sb</b>	
Nov 10 2012 18"	7mm TV	PF,PS,EON,UBL,NND,R=F,PA=15		
<b>PGC 11863</b>			<b>Galaxy S0?</b>	
Dec 13 2012 18"	8.8 ES	VF,VS,OVAL,UB,NND,R=F		
<b>PGC 11982</b>			<b>Galaxy S?</b>	
Dec 13 2012 18"	7mm TV	VF,PS,OVAL,NND,AV,R=P		
<b>PGC 12004</b>			<b>Galaxy</b>	

## Perseus - Rescuer of Andromeda

<b>PGC 12004</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	VF,VS,OVAL,PEXT,UB,NND,R=F
<b>PGC 12038</b>		<b>Galaxy S0:</b>
Dec 13 2012 18"	7mm TV	VF,VS,OVAL,PEXT,FNUC,R=F
<b>PGC 12039</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	PF,CS,OVAL,MEXT,FNUC,R=F
<b>PGC 12073</b>		<b>Galaxy Dwarf</b>
Dec 13 2012 18"	7mm TV	VF,PS,OVAL,MEXT,NND,AV4,R=P
<b>PGC 12081</b>		<b>Galaxy (R')SB(s)b</b>
Dec 13 2012 18"	8.8 ES	PF,VS,OVAL,UB,NND,R=F
<b>PGC 12089</b>		<b>Galaxy Scd:</b>
Dec 13 2012 18"	8.8 ES	VF,VS,R,UB,NND,R=F
<b>PGC 12092</b>		<b>Galaxy S0/a</b>
Dec 13 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,ND,R=F
<b>PGC 12097</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	VF,VS,R,UB,NND,AV2,R=P
<b>PGC 12132</b>		<b>Galaxy SAB(s)d</b>
Dec 13 2012 18"	7mm TV	DIFF,VF,PS,OVAL,PEXT,UB,NND,R=F
<b>PGC 12133</b>		<b>Galaxy Sab</b>
Dec 13 2012 18"	7mm TV	PF,VS,OVAL,PEXT,UB,NND,R=F
<b>PGC 12185</b>		<b>Galaxy Sa?</b>
Dec 13 2012 18"	7mm TV	PF,PS,EON,UB,NND,R=F
<b>PGC 12254</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	VF,PS,R,UB,NND,R=F
Oct 31 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F,AV2
<b>PGC 12397</b>		<b>Galaxy Sc?</b>
Nov 10 2012 18"	7mm TV	VF,VS,EON,UB,NND,R=F,PA=15
<b>PGC 12430</b>		<b>Galaxy</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,AV1,R=F
<b>PGC 13884</b>		<b>Galaxy Sbc</b>
Dec 18 2006 31"	20mmUV	PF,PS,EON,NND,R=F
<b>PGC 14034</b>		<b>Galaxy S?</b>

## Perseus - Rescuer of Andromeda

**PGC 14034**

Dec 18 2006 31" 20mmUV PF,L,OVA,NND,R=F

**Galaxy S?**

**PGC 14152**

Dec 18 2006 31" 20mmUV PF,PS,OVAL,NND,R=F

**Galaxy S0**

**PGC 14276**

Dec 18 2006 31" 20mmUV VF,PS,EON,NND,R=F

**Galaxy Scd:**

## Pisces - The Fishes

<b>IC 3</b>			<b>Galaxy E/S0</b>	
Dec 12 2012 36"	17mmT4	PG,PD,OVAL,MEXT,FNUC,R=F		
<b>IC 8</b>			<b>Galaxy Sc</b>	
Oct 09 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>IC 101</b>			<b>Galaxy S?</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F		
<b>IC 102</b>			<b>Galaxy S0/a</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,MEXT,UB,NND,R=F		
<b>IC 114</b>			<b>Galaxy S0</b>	
Dec 12 2012 36"	17mmT4	PF,PS,OVAL,UUD,R=F,BRIGHTER TOWARDS THE MIDDLE		
<b>IC 154</b>			<b>Galaxy Sb</b>	
Nov 10 2007 31"	17mmT4	VF,VS,EON,NND,R=F		
<b>IC 156</b>			<b>Galaxy S?</b>	
Nov 10 2007 31"	17mmT4	PB,PS,OVAL,BNUC,R=G		
<b>IC 5309</b>			<b>Galaxy Sb</b>	
Nov 03 2013 36"	17mmT4	PF,PS,EON,UB,NND,AV,R=F,PA=34		
<b>MAC 0124+3319</b>			<b>Galaxy</b>	
Oct 30 2005 31"	17mmT4	MF,VS,OVAL,NND,R=F		
<b>NGC 3</b>			<b>Galaxy S0?</b>	<b>F,VS,R,ALMSTEL</b>
Aug 24 2012 18"	5mm TV	VF,VS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 12</b>		<b>H868-3</b>	<b>Galaxy SAB(rs)c:</b>	<b>EF,PL,VGLBM</b>
Dec 12 2012 36"	17mmT4	PF,PS,R,NND,R=F,15TH MAG STAR TO WEST,BRIGHTER TOWARDS THE MIDDLE.		
Nov 28 2010 12"	7mm TV	VF,CS,R,UB,NND,R=F,AV2		
<b>NGC 36</b>		<b>H456-3</b>	<b>Galaxy SAB(rs)b</b>	<b>VF,PS,IF</b>
Dec 12 2012 36"	17mmT4	VF,VS,R,FNUC,R=F,SOME SPIRAL STRUTURE ON ARMS		
Nov 28 2010 12"	7mm TV	CF,CS,OVAL,UB,NND,R=F,PA=40		
<b>NGC 38</b>			<b>Galaxy (R)SAa:</b>	<b>F,S,R,MBM</b>
Dec 12 2012 36"	17mmT4	PF,PS,R,FRNUC,R=F		
<b>NGC 57</b>		<b>H241-2</b>	<b>Galaxy E</b>	<b>F,S,R,SBM</b>
Oct 06 2004 8"	7.5mmW	F,EL,EON,FNUC,R=F		
<b>NGC 63</b>			<b>Galaxy S pec</b>	<b>PF,S,R,SBM</b>
Oct 09 2007 8"	11mmT6	PF,PS,R,UB,NND,R=F		

## Pisces - The Fishes

<b>NGC 95</b> Nov 28 2010 12"	7mm TV	<b>H257-2</b> PF,PS,OVAL,PEXT,FNUC,R=F	<b>Galaxy SAB(rs)c pec</b>	<b>F,PL,R,GBM</b>
<b>NGC 125</b> Oct 09 2007 8"	11mmT6	<b>H869-3</b> PF,PS,R,NND,R=F	<b>Galaxy (R)SA0+ pec:</b>	<b>VF,S,BM,D*SP</b>
<b>NGC 128</b> Oct 09 2007 8"	11mmT6	<b>H854-2</b> PB,PS,OVAL,UB,NND,R=F	<b>Galaxy S0 pec sp</b>	<b>PB,PS,LE2,BM</b>
<b>NGC 137</b> Oct 07 2010 12"	5.5mmN	<b>H471-2</b> PF,CS,,R,UB,NND,R=F	<b>Galaxy S0</b>	<b>F,IF,LBM</b>
<b>NGC 180</b> Nov 28 2010 12"	7mm TV	<b>H876-3</b> DIFF,CF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(rs)bc</b>	<b>VF,PL,IR,*NP INV</b>
<b>NGC 182</b> Oct 07 2010 12"	5.5mmN	<b>H870-3</b> VF,VS,OVAL,UB,NND,R=F,AV-5,PA=100	<b>Galaxy (R')SAB(rs)a p:</b>	<b>VF,S,IR,VGBM</b>
<b>NGC 193</b> Oct 06 2004 8"	11mmT6	<b>H595-3</b> MF,EL,FNUC,R=F	<b>Galaxy SAB(s)0-:</b>	<b>F,L,P OF2,*15CLOSESP</b>
<b>NGC 194</b> Oct 06 2004 8"	11mmT6	<b>H856-2</b> MF,EL,NND,AV,R=F	<b>Galaxy E</b>	<b>PB,S,R,VGBM</b>
<b>NGC 198</b> Nov 10 2007 31"	17mmT4	<b>H857-2</b> PB,PL,R,NND,UB,R=F	<b>Galaxy SA(r)c</b>	<b>F,S,VGBM</b>
<b>NGC 200</b> Nov 10 2007 31"	17mmT4	<b>H858-2</b> PB,PL,OVAL,UB,NND,R=F	<b>Galaxy SB(s)bc</b>	<b>PB,S,VGBM</b>
<b>NGC 234</b> Nov 28 2010 12"	7mm TV	<b>H245-2</b> DIFF,VF,CS,R,UB,NND,R=F,AV2	<b>Galaxy SAB(rs)c</b>	<b>F,PS,ILE,BM</b>
<b>NGC 246</b> Nov 28 2010 12" Nov 21 2006 8"	7mm TV 11mmT6	<b>H25-5</b> PF,PS,R=F,IRREGULAR SHAPE, NO CENTRAL STAR, OIII HELPS F,L,R,R=G	<b>Planetary Neb 3b</b>	<b>VF,L,4*IN DIF NEB</b>
<b>NGC 251</b> Nov 28 2010 12"	7mm TV	<b>H204-3</b> DIFF,CF,CS,OVAL,UB,NND,R=F	<b>Galaxy Sc</b>	<b>VF,S,R,LBM,*INV,2S*F</b>
<b>NGC 257</b> Nov 28 2010 12"	7mm TV	<b>H863-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy Scd:</b>	<b>PL,LE,GBM,R</b>
<b>NGC 266</b> Oct 09 2007 8"	11mmT6	<b>H153-3</b> VF,PS,R,NND,AV,R=F	<b>Galaxy SB(rs)ab</b>	<b>PB,PS,LE,PSBM,*8SF4'</b>
<b>NGC 315</b>		<b>H210-2</b>	<b>Galaxy E+:</b>	<b>PB,PL,R,GBM,*9NF3'</b>



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<b>NGC 315</b> Oct 09 2007 8"	11mmT6	<b>H210-2</b> PF,PS,OVAL,NND,R=F	<b>Galaxy E+:</b>	<b>PB,PL,R,GBM,*9NF3'</b>
<b>NGC 410</b> Oct 09 2007 8"	11mmT6	<b>H220-2</b> CF,CS,OVAL,NND,R=F	<b>Galaxy E+:</b>	<b>PB,PL,NF OF 2</b>
<b>NGC 451</b> Oct 12 2012 18"	7mm TV	<b>H220-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy S?</b>	<b>VF,VS,R,VLBM</b>
<b>NGC 467</b> Oct 09 2007 8"	11mmT6	<b>H108-1</b> PF,VS,R,NND,R=F	<b>Galaxy SA(s)0^ pec?</b>	<b>PB,PL,R,GBM</b>
<b>NGC 469</b> Oct 18 2009 12"	11mmT6	<b>H220-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy S</b>	<b>EF,S,R</b>
<b>NGC 470</b> Oct 09 2007 8"	11mmT6	<b>H250-3</b> PB,PS,OVAL,NND,R=F	<b>Galaxy SA(rs)b</b>	<b>PB,L,IR</b>
<b>NGC 474</b> Oct 09 2007 8"	11mmT6	<b>H251-3</b> PF,PL,R,NND,R=F	<b>Galaxy SA(s)0^</b>	<b>PB,S,SMBM,F OF 2</b>
<b>NGC 488</b> Nov 21 2006 8" Aug 21 2004 8"	11mmT6 11mmT6	<b>H252-3</b> B,L,OVAL,FNUC,R=F CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Galaxy SA(r)b</b>	<b>PB,L,R,SVMBM,*8F10'</b>
<b>NGC 495</b> Nov 10 2007 31"	17mmT4	<b>H156-3</b> PB,S,OVAL,BNUC,R=F	<b>Galaxy (R')SB(s)0/a p:</b>	<b>VF,S,1ST OF 3</b>
<b>NGC 496</b> Nov 10 2007 31"	17mmT4	<b>H157-3</b> PF,PL,OVAL,UB,NND,R=F	<b>Galaxy Sbc</b>	<b>VF,VS,2ND OF 3</b>
<b>NGC 499</b> Nov 10 2007 31"	17mmT4	<b>H158-3</b> PB,PL,OVAL,BNUC,HSB,R=G	<b>Galaxy S0-</b>	<b>PB,PL,R,3RD OF 3</b>
<b>NGC 507</b> Oct 30 2005 31"	17mmT4	<b>H159-3</b> VB,VL,R,FNUC,MSB,R=G	<b>Galaxy SA(r)0^</b>	<b>VF,PL,R,BM,S OF 2</b>
<b>NGC 508</b> Oct 30 2005 31"	17mmT4	<b>H160-3</b> VB,VL,R,FNUC,MSB,R=G	<b>Galaxy E0:</b>	<b>VF,S,N OF 2</b>
<b>NGC 514</b> Oct 09 2007 8"	11mmT6	<b>H252-2</b> DIF,PF,PS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)c</b>	<b>F,L,LE,VGLBM,**F</b>
<b>NGC 520</b> Oct 09 2007 8"	11mmT6	<b>H253-3</b> PB,PL,EL,OVAL,NND,R=F	<b>Galaxy Pec</b>	<b>F,CL,E137</b>
<b>NGC 522</b>			<b>Galaxy Sbc: sp</b>	<b>EF,PL,IF,(CL+NEB)</b>

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<b>NGC 522</b>		<b>Galaxy Sbc: sp</b>	<b>EF,PL,IF,(CL+NEB)</b>
Dec 12 2012 36"	17mmT4	PF,PS,,EON,UB,NND,R=G,PA=45,SLIGHT BULGE	
<b>NGC 524</b>		<b>H151-1 Galaxy SA(rs)0+</b>	<b>VB,PL,MBM,4S*NR</b>
Nov 21 2006 8"	11mmT6	PF,S,R,NND,R=F	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 525</b>		<b>Galaxy S0</b>	<b>VF,VS,*11.12P5S</b>
Dec 12 2012 36"	17mmT4	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 628</b>	<b>M74</b>	<b>Galaxy SA(s)c</b>	<b>GCL,F,VL,R,VG,PSMBM</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 660</b>		<b>H253-2 Galaxy SB(s)a pec</b>	<b>PB,PL,E,BM,R</b>
Oct 09 2007 8"	11mmT6	PF,PL,EL,OVAL,NND,R=F	
<b>NGC 665</b>		<b>H588-2 Galaxy (R)S0^?</b>	<b>F,S,LE,BM,R</b>
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,BNUC,R=G	
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,BNUC,R=G	
<b>NGC 676</b>		<b>H42-4 Galaxy S0/a: sp</b>	<b>VF,E161,SBM*9</b>
Oct 09 2007 8"	11mmT6	PF,PS,EON,NND,AV,R=F	
<b>NGC 706</b>		<b>H596-2 Galaxy Sbc?</b>	<b>F,S,BM,*13N1'</b>
Nov 10 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
<b>NGC 718</b>		<b>H270-2 Galaxy SAB(s)a</b>	<b>PB,S,IR,PSMBM</b>
Oct 09 2007 8"	11mmT6	PF,PS,R,UB,NND,R=F	
<b>NGC 741</b>		<b>H271-2 Galaxy E0:</b>	<b>PF,S,R,POF2,POS102</b>
Oct 09 2007 8"	11mmT6	PF,PS,R,UB,NND,R=F	
<b>NGC 7458</b>		<b>H590-2 Galaxy E</b>	<b>CF,CS,PSBM</b>
Sep 19 2014 18"	8mm Ds	PF,PS,R,FNUC,R=G, WRO - 9/19/14	
<b>NGC 7506</b>		<b>H184-3 Galaxy (R')SB(r)0+:</b>	<b>CF,VS,R,SBM*15</b>
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F, WRO - 9/19/14	
<b>NGC 7537</b>		<b>H429-2 Galaxy SAbc:</b>	<b>VF,CS,R,BM,SP OF 2</b>
Oct 09 2007 8"	11mmT6	PF,PS,EON,NND,R=F	
<b>NGC 7541</b>		<b>H430-2 Galaxy SB(rs)bc: pec</b>	<b>B,L,ME97,MBM,NF OF 2</b>
Oct 09 2007 8"	11mmT6	PB,PS,EON,UB,NND,R=F	

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<b>NGC 7546</b>		<b>Galaxy SAB(r)bc:</b>	<b>EF,S,LE</b>
Sep 19 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND,AV1,R=P, WRO - 9/19/14	
<b>NGC 7556</b>		<b>H235-2 Galaxy S0-</b>	<b>CF,PL,R,B** F</b>
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=G, WRO - 9/19/14	
<b>NGC 7562</b>		<b>H467-2 Galaxy E2-3</b>	<b>CB,PS,IR,PSBM</b>
Oct 09 2007 8"	11mmT6	PB,PS,OVAL,FNUC,R=F	
<b>NGC 7566</b>		<b>H185-3 Galaxy (R')SB(rs)a pec</b>	<b>VF,PS,E,ER,3F*INV</b>
Sep 19 2014 18"	8mm Ds	VF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14	
<b>NGC 7611</b>		<b>Galaxy SB0+:</b>	<b>F,S,R,TRIW/2*19N</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,VEXT,BNUC,R=F	
Oct 10 2004 8"	7.5mmW	MG,EL,NND,AV,R=F	
<b>NGC 7679</b>		<b>Galaxy SB0 pec:</b>	<b>PB,S,R,MBMN,STELL</b>
Oct 09 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	
<b>NGC 7685</b>		<b>H426-3 Galaxy SAB(s)c:</b>	<b>EF,CL,R,GBM,**NR</b>
Sep 19 2014 18"	8mm Ds	VF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14	
<b>NGC 7694</b>		<b>H187-3 Galaxy Im pec:</b>	<b>EF,PL,STELLAR</b>
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,VEXT,FNUC,R=G, WRO - 9/19/14	
<b>NGC 7701</b>		<b>H188-3 Galaxy</b>	<b>VF,S,R,MBM,*11SP</b>
Sep 19 2014 18"	8mm Ds	PF,VS,OVAL,UB,NND,R=F, WRO - 9/19/14	
<b>NGC 7716</b>		<b>Galaxy SAB(r)b:</b>	<b>F,PL,LE,GBM,*10S</b>
Oct 09 2007 8"	11mmT6	CF,PS,R,ND,AV,R=F	
<b>NGC 7750</b>		<b>H427-3 Galaxy (R')SB(rs)c pec</b>	<b>CF,PL,VLE0,LBM,*11SF</b>
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,PEXT,UB,NND,R=F	
<b>NGC 7751</b>		<b>H437-3 Galaxy S?</b>	<b>F,S,R,GBM,ER</b>
Sep 19 2014 18"	8mm Ds	VF,VS,R,UB,NND,R=F, WRO - 9/19/14	
<b>NGC 7778</b>		<b>H231-3 Galaxy E</b>	<b>CF,S,R,PSBM,1ST OF4</b>
Oct 26 2014 12"	11mmT6	VF,VS,R,UB,NND,R=F	
Sep 19 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F, PAIRED W/NGC-7779, WRO - 9/19/14	
<b>NGC 7779</b>		<b>H232-3 Galaxy (R')SA0/a:</b>	<b>PF,S,R,PSBM,2ND OF 4</b>
Oct 26 2014 12"	11mmT6	VF,VS,OVAL,UB,NND,R=P	
Sep 19 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F, PAIRED W/NGC-7778, WRO - 9/19/14	
<b>NGC 7782</b>		<b>H233-3 Galaxy SA(s)b</b>	<b>PF,PL,LE,GLBM,4THOF4</b>
Oct 26 2014 12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F	

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<b>NGC 7782</b>		<b>H233-3</b>	<b>Galaxy SA(s)b</b>	<b>PF,PL,LE,GLBM,4THOF4</b>
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14		
<b>NGC 7785</b>		<b>H468-2</b>	<b>Galaxy E5-6</b>	<b>PB,PS,IR,PSBM,R,*8P</b>
Oct 09 2007 8"	11mmT6	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 7797</b>		<b>H867-3</b>	<b>Galaxy Sbc</b>	<b>EF,PS,IR,LBM</b>
Sep 19 2014 18"	8mm Ds	VF,PS,R,UB,NND,AV,R=F		
<b>NGC 7832</b>		<b>H190-3</b>	<b>Galaxy E+</b>	<b>VF,VS,R,VGPSMBM,2*SF</b>
Nov 10 2007 31"	17mmT4	PB,L,OVA,,NND,R=F		
<b>PGC 356</b>			<b>Galaxy Sb</b>	
Nov 10 2007 31"	17mmT4	VF,PS,OVAL.MNND,AV,R=F		
<b>PGC 782</b>			<b>Galaxy SBa</b>	
Feb 20 2006 31"	17mmT4	DIFF,B,ML,OVAL,FNUC,R=F		
<b>PGC 797</b>			<b>Galaxy S</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F, COMPANION OF NGC-36		
<b>PGC 873</b>			<b>Galaxy SBb</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F		
<b>PGC 3133</b>			<b>Galaxy S?</b>	
Dec 12 2012 36"	17mmT4	PF,VS,EON,UB,NND,R=F,PA=170		
<b>PGC 3777</b>			<b>Galaxy S</b>	
Oct 30 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>PGC 5213</b>			<b>Galaxy SBb</b>	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,ND,R=F		
<b>PGC 6425</b>			<b>Galaxy S IV-V</b>	
Nov 10 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>PGC 71120</b>			<b>Galaxy Sm:</b>	
Nov 03 2013 36"	17mmT4	VF,CS,R,UB,NND,AV3,R=P		
<b>PGC 71752</b>			<b>Galaxy SB(s)d</b>	
Sep 19 2014 18"	8mm Ds	VF,S,OVAL,EEXT,UB,NND,AVII,R=P, WRO - 9/19/14		

## Puppis - The Stern of The Argo

<b>NGC 2396</b>		<b>H36-8</b>	<b>Open Cluster 11.0 IV 1 m</b>	<b>CL,VL,VLC</b>
Mar 28 2011 12"	11mmT6	PF,PS,LOOSE,R=F		
<b>NGC 2414</b>		<b>H37-8</b>	<b>Open Cluster 8.2 I 3 m</b>	<b>CL,P,LC,ST9,\$C</b>
Mar 28 2011 12"	11mmT6	F,PS,R=F,TIGHT		
<b>NGC 2421</b>		<b>H67-7</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,L,CRI,*11...13</b>
Mar 13 2007 8"	19mmW	F,PL,R=F,DIM PATCH		
<b>NGC 2422</b>	<b>M47</b>	<b>H38-8</b>	<b>Open Cluster 5.0 I 3 m</b>	<b>CL,B,VL,PRI,ST L\$\$</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 2423</b>		<b>H28-7</b>	<b>Open Cluster 9.0 II 2 m</b>	<b>CL,VL,RI,PC,ST VS</b>
Mar 13 2007 8"	19mmW	F,PL,R=G,DIM PATCH		
<b>NGC 2432</b>		<b>H36-6</b>	<b>Open Cluster II 2 m</b>	<b>CL,PL,PC,E0,ST L\$\$</b>
Mar 28 2011 12"	11mmT6	F,S,R=F,TIGHT IN A LINE		
<b>NGC 2437</b>	<b>M46</b>		<b>Open Cluster 10.0 II 2 r</b>	<b>CL,VB,VRI,VL,INV PLN</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		
<b>NGC 2438</b>		<b>H39-4</b>	<b>Planetary Neb 4+2</b>	<b>PLN,PB,PS,VLE,R</b>
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
Mar 13 2007 8"	7.5mmW	VF,VS,R=F, NO CENTRAL STAR		
<b>NGC 2440</b>		<b>H64-4</b>	<b>Planetary Neb 5+3</b>	<b>PLN,CB,NOT VWELL DEF</b>
Feb 17 2012 18"	7mm TV	OIII FILTER - VERY NICE PLANETARY		
Mar 13 2007 8"	7.5mmW	F,PS,R=F,IRREGULAR IN SHAPE		
<b>NGC 2447</b>	<b>M93</b>		<b>Open Cluster 9.0 I 3 r</b>	<b>CL,L,PRI,LC,ST8...13</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		

## Puppis - The Stern of The Argo

<b>NGC 2447</b>	<b>M93</b>	<b>Open Cluster 9.0 I 3 r</b>	<b>CL,L,PRI,LC,ST8...13</b>
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 30 2003 8"	25mmPL	H/M COLD	
<b>NGC 2452</b>		<b>Planetary Neb 4+3</b>	<b>PLN,F,S,LE,AM60*</b>
Nov 22 2006 8"	11mmT6	PF,PS,R=F	
<b>NGC 2467</b>		<b>Open Cluster I 3 m n</b>	<b>PB,VL,R,ER,*8M</b>
Mar 28 2011 12"	11mmT6	F,S,R=G, NICE GROUP W/ASSOCIATED NEBULOSITY	
<b>NGC 2479</b>		<b>Open Cluster III 1 m</b>	<b>CL,PL,PRI,PC,ST S</b>
Mar 13 2007 8"	19mmW	F,S,R=F, LOOSE GROUP	
<b>NGC 2482</b>		<b>Open Cluster 10.0 IV 1 m</b>	<b>CL,L,CRI,VLC</b>
Mar 13 2007 8"	19mmW	B,PL,R=F, LOOSE GROUP	
<b>NGC 2489</b>		<b>Open Cluster 11.0 I 2 m</b>	<b>CL,PL,CRI,PC,*11..13</b>
Mar 13 2007 8"	19mmW	F,S,R=F	
<b>NGC 2509</b>		<b>Open Cluster I 1 r</b>	<b>CL,B,PRI,LC,ST S</b>
Mar 13 2007 8"	19mmW	F,PL,R=F,DIM PATCH	
<b>NGC 2525</b>		<b>Galaxy SB(s)c</b>	<b>CF,PL,R,VGVLBM,AM ST</b>
Mar 16 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F	
<b>NGC 2527</b>		<b>Open Cluster II 2m</b>	<b>CL,VL,PRI,LC,*10..15</b>
Mar 28 2008 1.9"	12x50	PB,PL,R=G	
Mar 13 2007 8"	19mmW	F,PL,R=F,PATCHY	
<b>NGC 2539</b>		<b>Open Cluster 9.0 III 2 m</b>	<b>CL,VL,RI,LC,*11...13</b>
May 22 2015 12"	17mmT4	CAUGHT BEFORE SETTING. LOW ON HORIZON	
Mar 28 2008 1.9"	12x50	PB,PL,R=G	
Mar 13 2007 8"	19mmW	B,PL,R=G,RESOLVE FAINTER STARS	
<b>NGC 2567</b>		<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PL,PRI,LC,IR,*11.</b>
Mar 13 2007 8"	19mmW	PF,L,R=F	
<b>NGC 2571</b>		<b>Open Cluster 8.8 II 3 m</b>	<b>CL,VL,CRI,LC,ST9...</b>
Mar 28 2008 1.9"	12x50	B,S,R=F	
Mar 13 2007 8"	19mmW	VF,L,R=F	

## Pyxis - The Compass

<b>NGC 2613</b>		<b>H266-2</b>	<b>Galaxy SA(s)b</b>	<b>CB,L,VME110</b>
Mar 13 2007 8"	11mmT6	PF,PS,EON,NND,AV,R=F		
<b>NGC 2627</b>		<b>H63-7</b>	<b>Open Cluster 11.0 II 2 r</b>	<b>CL,CL,PRI,PC,*11..13</b>
Mar 13 2007 8"	11mmT6	PF,S,R=F		

## Reticulum - The Reticule

<b>NGC 1534</b>			<b>Galaxy SA(rs)0/a: sp</b>	<b>F,S,R,VS*3/4D SF</b>
Dec 18 2006 31"	20mmUV	F,S,R=P,HINT OF NEBULOSITY.		

## Sculptor - The Sculptor

<b>NGC 24</b>		<b>H461-3</b>	<b>Galaxy SA(s)c</b>	<b>VF,CL,ME,GBM</b>
Oct 31 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F,PA=80. 13TH MAG. STR AT WEST END.		
<b>NGC 253</b>		<b>H1-5</b>	<b>Galaxy SAB(s)c</b>	<b>VVB,VVL,VME54,GBM</b>
Nov 04 2007 1.9"	12x50	PB,PL,EL,OVAL,UB,ND,R=G		
Nov 21 2006 8"	11mmT6	B,PL,EON,NND,R=G		
<b>NGC 288</b>		<b>H20-6</b>	<b>Globular</b>	<b>GCL,B,L,LE,*12...16</b>
Oct 09 2007 8"	11mmT6	PB,PL,SMUDGE, RESOLVED NO STARS,R=G		
<b>NGC 613</b>		<b>H281-1</b>	<b>Galaxy SB(rs)bc</b>	<b>VB,VL,VME118,SBM,*NF</b>
Oct 09 2007 8"	11mmT6	PB,PL,OVAL,FNUC,R=G		
<b>NGC 7507</b>		<b>H2-2</b>	<b>Galaxy E0</b>	<b>PB,CS,R,PSVMBM,*10NP</b>
Aug 25 2011 12"	7mm TV	PF,PS,R,FNUC,R=G, LAST OBJECT FOR HERSCHEL 400 II LIST.		
<b>NGC 7513</b>			<b>Galaxy (R')SB(s)b pec</b>	<b>VF,PL,E,GBM</b>
Aug 25 2011 12"	7mm TV	PF,PS,OVAL,MEXT,FNUC,R=G		
<b>PGC 1942</b>			<b>Galaxy Sc sp</b>	
Dec 12 2012 36"	17mmT4	PF,VS,EON,UB,NND,R=F,PA=70		

## Scorpius - The Scorpion

<b>IC 4592</b>		<b>Nebula R</b>	
Jul 21 2007 1.9"	12x50	PF,PL,JUST DETECTED,R=F	
<b>NGC 6000</b>		<b>Galaxy SB(s)bc:</b>	<b>VF,S,R,SBM</b>
Jun 14 2007 8"	11mmT6	CF,CS,R,NND,AV,R=F	
<b>NGC 6093</b>	<b>M80</b>	<b>Globular</b>	<b>GCL,VB,L,VMBM(VAR*)</b>
Jun 19 2020 12"	13mmHV	B,L,R=E	
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 6121</b>	<b>M4</b>	<b>Globular</b>	<b>CL,8OR1OB*LINE,RRR</b>
Jul 26 2020 12"	8mm Et	FIRST OBJECT OF THE NIGHT.	
Jul 17 2020 12"	8mm Et	FIRST OBJECT OF THE NIGHT.	
Jul 13 2020 12"	8mm Et	FIRST OBJECT OF THE NIGHT	
Jun 24 2020 12"	8mm Et	1ST OBJECT. EASILY RESOLVED STARTS. R=E	
Jun 19 2020 12"	13mmHV	GOOD	
Jun 19 2020 12"	13mmHV	B,L,R=E	
Aug 29 2019 12"	17mm O	FIRST OBJECT OF THE NIGHT. WAITING FOR DARKNESS.	
May 31 2019 12"	11mmT6	COULD NOT RESOLVE TOO MANY STARS	
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 6124</b>		<b>Open Cluster 9.0 I 3 r</b>	<b>CL,B,L,PRI,LCM,*9.11</b>
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	



## Scorpius - The Scorpion

<b>NGC 6139</b>			<b>Globular</b>	<b>B,PL,R,PSBM,RR</b>
Jun 19 2020	12"	13mmHV	PF,S,R=P	
Jul 01 2016	12"	8mm Et	F,S,R=P, LOW ON HORIZON.	
Jul 03 2005	8"	11mmT6	VF,VS,R,R=F	
<b>NGC 6144</b>		<b>H10-6</b>	<b>Globular</b>	<b>CL,CL,MC,GBM,RRR</b>
Jun 19 2020	12"	13mmHV	F,L,R=F	
Jul 01 2016	12"	8mm Et	F,L,R=G	
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jun 05 2011	12"	17mmT4	NICE GLOB.	
Jul 03 2005	8"	11mmT6	VF,VS,R,AV,R=F	
<b>NGC 6153</b>			<b>Planetary Neb 4</b>	<b>PLN,STELLAR</b>
Jul 14 2010	12"	7.5mmW	PF,CS,R,R=F, NO CENTRAL STAR OBSERVED.	
<b>NGC 6256</b>			<b>Globular</b>	<b>GCL,VF,VL,IR,VGBM</b>
Jun 19 2020	12"	13mmHV	F,S,R=F	
Jul 01 2016	12"	7mm TV	V,S,R=F	
Aug 20 2006	8"	7.5mmW	VF,VS,AV,R=F	
<b>NGC 6302</b>			<b>Planetary Neb 6</b>	<b>PB,E PF,(SWIFT,TRIP)</b>
Jul 07 2018	12"	8mm Et	PB,S,R=E. OIII FILTER	
Jul 09 2005	8"	11mmT6	MB,VS,R,R=G	
<b>NGC 6337</b>			<b>Planetary Neb 4</b>	<b>RINGNEB,EF,S,AM ST</b>
Jul 31 2011	12"	7mm TV	F,VS,,R=F,SMUDGE WITH TWO FOREGROUND STARS	
<b>NGC 6380</b>			<b>Globular</b>	<b>EF,PS,LE,*9ATT</b>
Jun 24 2020	12"	8mm Et	VF,PS,R=P	
Sep 02 2019	12"	11mmT6	PF,PS,AV1MR=P	
Aug 20 2006	8"	7.5mmW	VF,VS,R=F	
<b>NGC 6388</b>			<b>Globular</b>	<b>GCL,VB,L,R,PG,PSVMBM</b>
Aug 02 2019	12"	7mm TV	B,PS,R=G. VERY LOW ON HORIZON. -44 DEGRESS.	
<b>NGC 6405</b>		<b>M6</b>	<b>Open Cluster 5.5 II 3 r</b>	<b>CL,L,IR,LC,ST7,10...</b>
Jul 13 2020	12"	8mm Et	B,L,R=E	
Jul 01 2019	12"	17mm O	B,L,R=G,LP2 FILTER	
Jul 07 2018	12"	8mm Et	PB,L,R=E	
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	

## Scorpius - The Scorpion

<b>NGC 6405</b>	<b>M6</b>	<b>Open Cluster 5.5 II 3 r</b>	<b>CL,L,IR,LC,ST7,10...</b>
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6441</b>		<b>Globular</b>	<b>GCL,VB,PL,R,VGMBM,</b>
Jun 24 2020 12"	8mm Et	B,PS,R=G. -37 DEGREES	
Aug 02 2019 12"	7mm TV	B,S,R=G. ALSO VERY LOW ON HORIZON. -37 DEGREES	
Jul 15 2006 8"	19mmW	PB,CS,R=G,TIGHT GROUP, UNRESOLVABLE	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
<b>NGC 6451</b>		<b>H13-6 Open Cluster 12.0 I 2 r n</b>	<b>CL,PL,PRI,BIFID,ST12</b>
Jul 23 2006 8"	11mmT6	PB,PL,R=G,DENSE GROUP	
Jul 09 2005 8"	11mmT6	R=G. LOOSE GROUP W/MANY STARS	
<b>NGC 6453</b>		<b>Globular</b>	<b>CL,IR,PMBM,R</b>
Jul 13 2020 12"	8mm Et	PF,PS,R=G	
Jun 24 2020 12"	8mm Et	F,L,R=P	
Sep 02 2019 12"	11mmT6	PF,PS,R=F	
Jul 01 2019 12"	17mm O	VF,PS,R=F	
Jul 03 2005 8"	11mmT6	VF,VS,R,R=F	
<b>NGC 6475</b>	<b>M7</b>	<b>Open Cluster 7.0 I 3 r</b>	<b>CL,VB,PRI,LC,*7...12</b>
Jul 13 2020 12"	8mm Et	PB,PR,R=E	
Jul 01 2019 12"	17mm O	F,L,R=E, LP2	
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 6480</b>		<b>Non-Existent</b>	<b>NEBSPART OFMILKY WAY</b>
Jul 03 2005 8"	11mmT6	VF,VS,R=F	
<b>PK 353-04.1</b>		<b>Invalid Type</b>	
Aug 02 2019 12"	7mm TV	B,VS,R=G. SAME FOV AS NGC-6441, ALMOST RIGHT BESIDE IT.	
<b>TER 2</b>		<b>Globular</b>	
Oct 29 2006 8"	19mmW	PF,PS,LOOSE,R=F	
<b>TER 3</b>		<b>Globular</b>	
Nov 26 2006 1.9"	12x50	B,PL,LOOSE,RESOLVESTARS,R=G	
Nov 09 2006 8"	19mmW	12+,FAINT,R=F	
<b>TON 2</b>		<b>Globular</b>	
Sep 02 2019 12"	11mmT6	PF,PS,AV2,R=P	

## Scutum - The Shield

<b>NGC 6625</b>			<b>Open Cluster IV 3 m n</b>	<b>CL,LC,LRI,ST11...12</b>
Aug 13 2007 31"	31mmT5	PB,L,R=F, SOME NEBULOSITY		
<b>NGC 6631</b>			<b>Open Cluster II 1 m</b>	<b>CL,PL,PRI,ST12...15</b>
Aug 13 2007 31"	31mmT5	PB,PS,MORE STARS, CONDENSED,R=F		
<b>NGC 6639</b>			<b>Open Cluster</b>	<b>CL,IN MILKY WAY</b>
Aug 13 2007 31"	31mmT5	PB,PS,R=F, SOME NEBULOSITY		
<b>NGC 6649</b>			<b>Open Cluster 13.2 I 3 m</b>	<b>CL,P,LC,PS,*9,10,12.</b>
Aug 13 2007 31"	31mmT5	B,PS,R=G,SOME NEBULOSITY,CARBON STR.		
<b>NGC 6664</b>		<b>H12-8</b>	<b>Open Cluster 9.0 III 2 m</b>	<b>CL,L,PRI,VLC</b>
Aug 13 2007 31"	31mmT5	B,L,R=G		
Mar 18 2007 8"	11mmT6	B,L,LOOSE GROUP,R=F		
<b>NGC 6682</b>			<b>Open Cluster star clou</b>	<b>CL,L,RI,ST10...18</b>
Aug 13 2007 31"	31mmT5	PB,EL,R=G. MASSIVE CLUSTER		
<b>NGC 6683</b>			<b>Open Cluster 11.7 II 1 p n</b>	<b>CL,VRI,VLC,IN M WAY</b>
Aug 13 2007 31"	31mmT5	B,PS,R=G, SOMEWHAT DENSE		
<b>NGC 6694</b>	<b>M26</b>		<b>Open Cluster 11.0 II 3 m</b>	<b>CL,CL,PRI,PC,ST12.15</b>
Jul 08 2018 12"	17mmT4	B,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		
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 6704</b>			<b>Open Cluster 12.0 I 2 m</b>	<b>CL,B,60ST13</b>
Aug 13 2007 31"	31mmT5	PB,S,R=G		
<b>NGC 6705</b>	<b>M11</b>		<b>Open Cluster 11.0 I 2 r</b>	<b>CL,VB,L,IR,RI,*9,</b>
Jul 13 2020 12"	13mmHV	B,L,R=E		
Jul 08 2018 12"	17mmT4	B,S,R=G. FULL OF STARS		
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 6712</b>	<b>H47-1</b>		<b>Globular</b>	<b>GCL,PB,VL,IRR,RRR</b>

## Scutum - The Shield

<b>NGC</b>	<b>6712</b>	<b>H47-1</b>	<b>Globular</b>	<b>GCL,PB,VL,IRR,RRR</b>
Aug 13 2007	31"	31mmT5	PB,PS,R=G, RESOLVE OUTER STARS	
Jul 21 2007	1.9"	12x50	F,PS,R=F	
Jul 15 2006	8"	19mmW	PB,PS,R=G	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>PK</b>	<b>21-0.1</b>		<b>Planetary Neb 2+3</b>	
Aug 13 2007	31"	31mmT5	PF,VS,R=F, CENTRAL STAR NOT VISIBLE	

## Serpens - The Serpent

<b>IC 1276</b>			<b>Globular</b>	
Jul 01 2019 12"	11mmT6	VF,PS,AV,R=P		
Jul 09 2005 8"	11mmT6	VF,ML,R=F		
<b>IC 4756</b>			<b>Open Cluster 8.0 II 3 r</b>	
Sep 19 2014 12"	17mmAT	B,L,R=G,LOOSE, HOME - 8/14/14		
Jun 20 2007 1.9"	12x50	F,PL,R=F		
<b>NGC 5904</b>	<b>M5</b>		<b>Globular</b>	<b>GCL,VB,L,ECM,*11..15</b>
Jul 13 2020 12"	13mmHV	B,L,R=E		
Jun 19 2020 12"	13mmHV	B,L,R=E		
Aug 02 2019 12"	7mm TV	B,L,NICE AND FULL, R=E		
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 5921</b>		<b>H148-1</b>	<b>Galaxy SB(r)bc</b>	<b>CB,CL,IR,VSBM*12,AM*</b>
May 30 2011 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Sep 05 2007 8"	11mmT6	PF,PL,OVAL,NND,R=F		
<b>NGC 5928</b>		<b>H874-2</b>	<b>Galaxy S0</b>	<b>PB,CS,R,PSBM,*7N</b>
May 30 2011 12"	7mm TV	PF,CS,R,UB,NND,R=F		
<b>NGC 5936</b>		<b>H130-2</b>	<b>Galaxy SB(rs)b</b>	<b>F,PL,IR,VGBM,R</b>
Sep 05 2007 8"	11mmT6	PF,VS,R,NND,AV,R=F		
<b>NGC 5953</b>		<b>H178-2</b>	<b>Galaxy SAa: pec</b>	<b>PB,CS,P OF D NEB</b>
May 30 2011 12"	7mm TV	PF,PS,R,UB,NND,R=F		
<b>NGC 5954</b>		<b>H179-2</b>	<b>Galaxy SAB(rs)cd: pec</b>	<b>PB,CS,F OF D NEB</b>
May 30 2011 12"	7mm TV	PF,CS,OVAL,PEXT,UB,NND,R=F		
<b>NGC 5962</b>		<b>H96-2</b>	<b>Galaxy SA(r)c</b>	<b>PF,PL,ILE,GBM</b>
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 5964</b>			<b>Galaxy SB(rs)d</b>	<b>EF,VL,R,VGBM,R</b>
May 30 2011 12"	7mm TV	DIFF,CF,PS,OVAL,UB,NND,R=F		

## Serpens - The Serpent

<b>NGC 5970</b> Sep 05 2007 8"	11mmT6	<b>H76-2</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy SB(r)c</b>	<b>PF,PL,R,RR</b>
<b>NGC 5990</b> May 30 2011 12"	7mm TV	<b>H425-2</b> CF,CS,OVAL,UB,NND,R=F	<b>Galaxy (R')Sa pec?</b>	<b>VF,VS,R,GBM</b>
<b>NGC 5996</b> May 30 2011 12"	7mm TV	<b>H97-2</b> PF,PS,OVAL,UB,NND,R=P	<b>Galaxy S?</b>	<b>PF,CS,R,R,BET 2D*</b>
<b>NGC 6012</b> May 30 2011 12"	7mm TV	<b>H657-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy (R)SB(r)ab:</b>	<b>F,BET 2B ST</b>
<b>NGC 6070</b> Sep 05 2007 8"	11mmT6	<b>H553-3</b> PF,PS,OVAL,NND,R=F	<b>Galaxy SA(s)cd</b>	<b>F,L,PME,VGBM,R</b>
<b>NGC 6118</b> May 30 2011 12" Jul 24 2006 8"	7mm TV 11mmT6	<b>H402-2</b> PF,PS,OVAL,PEXT,UB,NND,R=F VF,PS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)cd</b>	<b>VF,CL,CE45,R</b>
<b>NGC 6535</b> Jul 01 2019 12" Jul 09 2005 8"	11mmT6 11mmT6	VF,PS,AV,R=F MF,ML,R=G	<b>Globular</b>	<b>PF,VS,VSNEB*P</b>
<b>NGC 6539</b> Jul 01 2019 12" Jul 09 2005 8"	11mmT6 11mmT6	PF,S,R=F. LITTLE MORE THAN A SMUDGE. VF,ML,R=F	<b>Globular</b>	<b>NO DESCRIPT</b>
<b>NGC 6604</b> Aug 02 2019 12" Sep 05 2007 8"	7mm TV 11mmT6	F,PS,R=F. 6+ MEMBERS. F,S,R=F	<b>Open Cluster 7.5 I 3 m n</b>	<b>CL,LRI,LC</b>
<b>NGC 6605</b> Aug 02 2019 12" Jun 20 2007 1.9"	7mm TV 12x50	PF,L,LOOSE,R=F PF,PS,R,R=F	<b>Open Cluster asterism</b>	<b>CL,LRI,LC,ST10...12</b>
<b>NGC 6611</b> Jul 13 2020 12" Aug 02 2019 12" Aug 02 2019 12" Jul 07 2018 12" Jul 19 2017 12" Jul 23 2016 12" Aug 21 2015 12" Jul 15 2015 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12"	<b>M16</b> 13mmHV 17mm O 17mmT4 8mm Et 17mmT4 8mm Et 17mmT4 17mmT4 17mmAT 17mmAT 26mm	B,L,R=E PB,L,R=E. OIII OUTSTANDING OBJECT. OIII B,L,R=E. OIII FILTER LP2 FILTER HELPS A BIT USED LP2 & LP3. BETTER VIEW WITH LP3 (OIII). 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES	<b>Open Cluster 11.0 II 3 m n</b>	<b>CL,ATLEAST100* L\$S</b>

## Serpens - The Serpent

<b>NGC 6611</b>	<b>M16</b>		<b>Open Cluster 11.0 II 3 m n</b>	<b>CL,ATLEAST100* L\$\$</b>
Sep 13 2009 12"	32mmUV	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		
<b>PAL 5</b>			<b>Globular</b>	
Jul 01 2016 12"	8mm Et	VF,S,R=F		
Jun 09 2007 8"	7.5mmW	VF,VS,AV,R=F		
Jun 04 2005 31"	17mmT4	VF,VS,R,AV,R=F		
<b>PGC 54559</b>			<b>Galaxy</b>	
Jun 22 2012 18"	8.8 ES	VF,VS,R,,NND,AV-4,R=P, HOAG'S OBJECT, NO RING OBSERVED		
<b>TR 32</b>			<b>Open Cluster</b>	
Aug 02 2019 12"	7mm TV	PF,PS,R=P		

## Sextans - The Sextant

<b>NGC 2974</b>		<b>H61-1</b>	<b>Galaxy E4</b>	<b>B,CS,IR,BM,*9SP43"</b>
Mar 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 3044</b>		<b>H254-3</b>	<b>Galaxy SB(s)c? sp</b>	<b>VF,VL,VME122</b>
Mar 30 2014 28"	7mm TV	SUPER WITH IMAGE INTENSIFIER. SOME DETAIL IN CORE DEFINITION COMES AND GOES		
Mar 30 2014 18"	7mm TV	B,PS,EON,UB,NND,R=G,PA=145,REALLY NICE		
<b>NGC 3115</b>		<b>H163-1</b>	<b>Galaxy S0- sp</b>	<b>VB,L,VME46,VGSMBMEN</b>
Mar 15 2005 8"	11mmT6	VB,ML,EL,EON, FNUC,MSB,R=G		
<b>NGC 3156</b>		<b>H255-3</b>	<b>Galaxy S0:</b>	<b>F,CS,R,PSBM,*9,10SF2</b>
Mar 28 2011 12"	7mm TV	PF,CS,OVAL,PEXT,FNUC,R=G,PA=45		
<b>NGC 3166</b>		<b>H3-1</b>	<b>Galaxy SAB(rs)0/a</b>	<b>B,PS,R,PSMBM,2ND OF3</b>
Mar 13 2007 8"	11mmT6	CB,CL,OVAL,FNUC,MHISB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 3169</b>		<b>H4-1</b>	<b>Galaxy SA(s)a pec</b>	<b>B,PL,VLE,PGMBM,3RD-3</b>
Mar 13 2007 8"	11mmT6	CB,CL,OVAL,FNUC,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 3365</b>			<b>Galaxy Scd: sp</b>	<b>EF,L,EE159,VGVLBM</b>
Mar 30 2014 18"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=150		
<b>NGC 3423</b>		<b>H6-4</b>	<b>Galaxy SA(s)cd</b>	<b>F,VL,R,VGBM,RR</b>
Mar 15 2005 8"	11mmT6	VF,ROUND,NND,AV,R=F		
<b>PGC 28913</b>			<b>Galaxy IB(s)m</b>	
Mar 15 2005 8"	11mmT6	MB,VS,OVAL,NND,AV,R=F		
<b>PGC 31037</b>			<b>Galaxy SBd:</b>	
May 25 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=150		



## Sagitta - The Arrow

<b>IC</b>	<b>4997</b>		<b>Planetary Neb 1</b>	
Sep 01 2008	31"	17mmT4	PB,ES,R=F. NO CENTRAL STAR	
<b>NGC</b>	<b>6838</b>	<b>M71</b>	<b>Globular</b>	<b>CL,VL,VRI,PMC,*11.16</b>
Jun 19 2020	12"	13mmHV	B,S,R=G	
Jun 28 2019	12"	17mmT4	NICE	
Jul 08 2018	12"	17mmT4	B,S,R=G	
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</b>	<b>6886</b>		<b>Planetary Neb 2+3</b>	<b>PLN,STELLAR=10M</b>
Sep 01 2008	31"	17mmT4	PB,VS,R=F. NO CENTRAL STAR	
<b>PAL</b>	<b>10</b>		<b>Globular</b>	
Sep 02 2019	12"	11mmT6	VF,VS,AV1,R=P	
May 21 2009	16"	11mmT6	VF,PS,AV,R=F UNRESOLVED.	

## Sagittarius - The Archer

<b>DJORG2</b>			<b>Globular</b>	
Aug 02 2019	12"	17mmT4	F,S,R=F. BARELY DETECTED.	
<b>ESO 456-38</b>			<b>Globular</b>	
Jul 13 2007	8"	7.5mmW	PB,PS,RESOLVE OUTER STARS,R=G	
Jul 09 2005	8"	11mmT6	VF,VS,R=F	
<b>IC 1283</b>			<b>Nebula E+R</b>	
Sep 05 2007	8"	11mmT6	F,PL,R=F	
<b>IC 4673</b>			<b>Planetary Neb 4</b>	
Sep 05 2007	8"	11mmT6	VF,VS,NO CENTRAL STAR,R=F	
<b>IC 4715</b>			<b>Non-Existent</b>	
Jun 24 2020	12"	20mmOF	R=E	
Aug 21 2015	12"	35mm A		
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	
Mar 27 2006	8"	19mmW	R=F	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
<b>IC 4725</b>		<b>M25</b>	<b>Open Cluster 8.0 I 3 m</b>	
Jul 13 2020	12"	13mmHV	STARS. R=E	
Aug 02 2019	12"	17mm O	PF,L,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	
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	
<b>IC 4732</b>			<b>Planetary Neb 1</b>	
Sep 05 2007	8"	11mmT6	VF,ES,AV,NO CENTRAL STAR,R=F	
<b>IC 4776</b>			<b>Planetary Neb 2a</b>	
Aug 24 2012	18"	8.8 ES	PF,PS, R=F, OIII FILTER,	
<b>NGC 6440</b>		<b>H150-1</b>	<b>Globular</b>	<b>PB,PL,R,BM</b>
Jun 24 2020	12"	8mm Et	PF,PS,R=F	
Jul 08 2018	12"	17mmT4	CAN'T RESOLVE STARS. SAME FOV AS NGC-6445	
Jul 13 2007	8"	11mmT6	PF,CS,ALMOST RESOLVE STARS,R=G	
Jul 15 2006	8"	19mmW	CF,CS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6445</b>		<b>H586-2</b>	<b>Planetary Neb 3b+3</b>	<b>PB,PS,R,GBM,R,*15NP</b>
Jun 24 2020	12"	8mm Et	PF,S,R=G. LP2 FILTER	

## Sagittarius - The Archer

<b>NGC 6445</b>		<b>H586-2</b>	<b>Planetary Neb 3b+3</b>	<b>PB,PS,R,GBM,R,*15NP</b>
Jul 08 2018	12"	17mmT4	B,S,R=G.	
Jul 09 2005	8"	11mmT6	MB,ML,MSB,R=G	
<b>NGC 6469</b>			<b>Open Cluster IV 2 m</b>	<b>CL,PRI,IN MILKY WAY</b>
Aug 02 2019	12"	17mm O	F,PS,R=F	
Jul 21 2007	1.9"	12x50	PF,PS,R=F	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6494</b>		<b>M23</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,B,VL,PRI,LC,*10..</b>
Jul 13 2020	12"	13mmHV	F,L,R=E	
Jul 08 2018	12"	8mm Et	B,=RG	
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 6507</b>		<b>H53-8</b>	<b>Open Cluster 12.0 IV 3 m</b>	<b>CL,PS,LRI,LC</b>
Aug 02 2019	12"	17mm O	F,S,R=G. 25+ MEMBERS	
Aug 20 2006	8"	7.5mmW	PF,PS,R=F,STARS AT SW CORNER	
<b>NGC 6514</b>		<b>M20</b>	<b>H41-4</b>	<b>Nebula EN+OC</b>
Jul 13 2020	12"	13mmHV	F,L,R=E	<b>VB,VL,TRIFID,D*INV</b>
Jun 24 2020	12"	13mmHV	R=E. LP2 FILTER	
Jun 19 2020	12"	13mmHV	GOOD	
Jul 01 2019	12"	17mm O	LP2,R=E	
Jul 07 2018	12"	8mm Et	PB,R=E. USED OIII FILTER	
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	
<b>NGC 6520</b>		<b>H7-7</b>	<b>Open Cluster 9.0 I 2 r n</b>	<b>CL,PS,RI,LC,ST9...13</b>
Aug 02 2019	12"	17mmT4	F,PS,R=G. BURIED IN BN. OIII HELPS.	
Oct 08 2006	1.9"	12x50	PF,S,R=F	
Jul 09 2005	8"	11mmT6	VB,R=G. NICE CLUSTER - BRIGHT	

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<b>NGC 6522</b>		<b>H49-1</b>	<b>Globular</b>	<b>GCL,B,PL,R,GVMBM,RRR</b>
Jul 13 2020	12"	8mm Et	F,S,R=G. BAADE'S WINDOW	
Jun 19 2020	12"	13mmHV	NICE	
Jul 01 2019	12"	17mm O	PF,S,R=G. SAME FOV AS NGC-6528.	
Jul 05 2016	12"	8mm Et	F,S,R=G, SAME FIELD AS NGC-6528	
Jul 15 2006	8"	19mmW	PB,S,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

<b>NGC 6523</b>		<b>M8</b>	<b>Nebula E</b>	<b>VB,EL,EIF,W/LCL</b>
Jun 19 2020	12"	13mmHV	GOOD	
Aug 02 2019	12"	17mm O	OUTSTANDING TONIGHT. BIG KNOT ON WEST SIDE LOOKED GREAT!!!	
Jul 01 2019	12"	17mm O	B,L,R=G. LP2 FILTER	
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 6526</b>		<b>H9-5</b>	<b>Nebula E</b>	<b>F,L,CE</b>
Jul 19 2011	12"	11mmT6	F,L, EBULOSITY, INTERMITENT DARK BAND, OIII DIDN'T SEEM TO HELP.	

<b>NGC 6528</b>		<b>H200-2</b>	<b>Globular</b>	<b>GCL,PF,CS,R,GBM,RRR</b>
Jul 13 2020	12"	8mm Et	PF,PS,R=G	
Jun 19 2020	12"	13mmHV	GOOD	
Jul 01 2019	12"	17mm O	PF,PS,R=G. SAME FOV AS NGC-6522	
Jul 05 2016	12"	8mm Et	PF,PS,R=G, SAME FIELD AS NGC-6522	
Jul 15 2006	8"	19mmW	CF,CS,R=G	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

<b>NGC 6530</b>			<b>Open Cluster 6.0 II 2 m n</b>	<b>CL,B,L,PRI,FM8</b>
Aug 02 2019	12"	17mm O	OPEN CLUSTER IMBEDDED IN M8. ON THE RIGHT.	
Jul 25 2011	12"	32mmUV	B,L,R=E, LP-2 FILTER.	
Sep 05 2007	8"	11mmT6	PB,PL,SOME NEBULOSITY,R=F	

<b>NGC 6531</b>		<b>M21</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,PRI,LC,ST9...12</b>
Jul 13 2020	12"	13mmHV	B,L,R=E	
Jun 24 2020	12"	13mmHV	R=E	
Jun 19 2020	12"	13mmHV	GOOD	
Jul 01 2019	12"	17mm O	R=G	
Jul 08 2018	12"	8mm Et	B,R=G	
Jul 05 2016	12"	17mmAT	NICE OPEN CLUSTER,R=G	
Mar 16 2012	18"	17mmAT	2012 M.M.	

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<b>NGC 6531</b>	<b>M21</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,PRI,LC,ST9...12</b>
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 6537</b>		<b>Planetary Neb 2a+6</b>	<b>PLN,B,S,STELLAR</b>
Aug 12 2005 8"	7.5mmW	VF,VS,AV,R=F	
<b>NGC 6540</b>		<b>H198-2 Globular</b>	<b>PF,S,IE,ER OR CL</b>
Jul 05 2016 12"	8mm Et	F,PS,R=F, ALMOST LOST IN HEAVY STAR FIELD	
Jul 13 2007 8"	7.5mmW	VF,VS,PATCHY,R=F	
Jul 09 2005 8"	11mmT6	R=F. LOOSE GROUP, FEWER STARS	
<b>NGC 6544</b>		<b>H197-2 Globular</b>	<b>CF,PL,IR,R</b>
Jul 13 2020 12"	13mmHV	B,L,R=G	
Jun 19 2020 12"	13mmHV	GOOD	
Jul 01 2019 12"	17mm O	F,S,R=G	
Jul 05 2016 12"	8mm Et	PF,S,R=F	
Jul 15 2006 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
Aug 14 2004 8"	11mmT6		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6546</b>		<b>Open Cluster 10.6 II 1 r</b>	<b>CL,VL,VRI</b>
Aug 02 2019 12"	17mm O	F,L,R=F	
Aug 12 2005 8"	7.5mmW	MB,MS,R=F	
<b>NGC 6553</b>		<b>H12-4 Globular</b>	<b>GCL,F,L,LE,VGLBM,RR</b>
Jun 19 2020 12"	13mmHV	GOOD	
Jul 01 2019 12"	17mm O	F,PS,R=G. NICE	
Jul 05 2016 12"	8mm Et	PF,S,R=G	
Jul 15 2006 8"	19mmW	PF,PS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6558</b>		<b>Globular</b>	<b>GCL,PB,PL,R,GLBM,RRR</b>
Jul 05 2016 12"	8mm Et	PF,PS,R=F,CAN' RESOLVE STARS	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6563</b>		<b>Planetary Neb 3a</b>	<b>PLN,F,L,CE,HAZY EDGE</b>
Aug 29 2010 12"	7mm TV	PF,PS,R=F. NO CENTRAL STAR NOTED	
<b>NGC 6567</b>		<b>Planetary Neb 2a+3</b>	<b>PLN,STELL,11M,IN ACL</b>
Sep 05 2007 8"	11mmT6	VF,PS,NO CENTRAL STAR,R=F	
<b>NGC 6568</b>		<b>H30-7 Open Cluster IV 1 m</b>	<b>CL,VL,LC</b>

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<b>NGC 6568</b>		<b>H30-7</b>	<b>Open Cluster IV 1 m</b>	<b>CL,VL,LC</b>
Aug 02 2019 12"	17mm O	F,S,R=F		
Jul 09 2005 8"	11mmT6	MB,R=G. NICE, BRIGHT CLUSTER		
<b>NGC 6569</b>		<b>H201-2</b>	<b>Globular</b>	<b>GCL,CB,L,R,RRR,*15..</b>
Jul 05 2016 12"	8mm Et	F,S,R=F,CAN'T RESOLVE STARS		
Jul 15 2006 8"	19mmW	F,CS,R=F		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 6583</b>		<b>H31-7</b>	<b>Open Cluster I 2 m</b>	<b>CL,PRI,PC,CE,ST13...</b>
Aug 02 2019 12"	17mm O	F,VS,R=P		
Jul 23 2006 8"	11mmT6	CF,S,R=F		
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM		
<b>NGC 6590</b>			<b>Nebula R</b>	<b>D*CENTRE PF,PL,RNEBY</b>
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM		
<b>NGC 6595</b>			<b>Nebula III 3 m n</b>	<b>F,PL,CE,**INV</b>
Aug 02 2019 12"	17mm O	PF,VS,R=F		
Sep 05 2007 8"	11mmT6	B,PS,R=F		
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM		
<b>NGC 6596</b>		<b>H55-8</b>	<b>Open Cluster II 2 m n</b>	<b>CL,LC</b>
Aug 18 2010 12"	11mmT6	PF,PS,R=F,LOOSE GROUP,NEBULOSITY NOTED IN MIDDLE		
<b>NGC 6603</b>	<b>M24</b>		<b>Open Cluster 14.0 I 2</b>	<b>CL,VRI,VMC,R,M WAY</b>
Jul 13 2020 12"	13mmHV	STARS. R=E		
Aug 02 2019 12"	17mm O	B,PL,R=E. SAGITTARIUS STAR CLOUD.		
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>NGC 6613</b>	<b>M18</b>		<b>Open Cluster 8.7 II 3 p n</b>	<b>CL,P,VLC</b>
Jul 08 2018 12"	17mmT4	B,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		
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 6618</b>	<b>M17</b>		<b>Nebula EN+OC</b>	<b>B,EL,EIF,2HOOKED</b>
Jul 13 2020 12"	13mmHV	B,L,R=E		
Jul 08 2018 12"	17mmT4	B,L,R=E		

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<b>NGC 6618</b>	<b>M17</b>	<b>Nebula EN+OC</b>	<b>B,EL,EIF,2HOOKED</b>
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"	32mmUV	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 6624</b>	<b>H50-1</b>	<b>Globular</b>	<b>GCL,VB,PL,R,RRR,ST16</b>
Jul 01 2019 12"	17mm O	F,PS,R=G, BRIGHT CORE	
Jul 05 2016 12"	8mm Et	F,PS,R=G,VERY NICE.	
Jul 16 2006 8"	19mmW	PF,PS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6626</b>	<b>M28</b>	<b>Globular</b>	<b>GCL,VB,L,R,GECL,RRR</b>
Jun 19 2020 12"	13mmHV	B,L,R=E	
Jul 01 2019 12"	17mmT4	B,S,R=G	
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 6629</b>	<b>H204-2</b>	<b>Planetary Neb 2a</b>	<b>PLNORGCL,PB,EES,R</b>
Jul 07 2018 12"	8mm Et	B,S,R=F. OIII FILTER	
Jul 09 2005 8"	11mmT6	VF,VS,AV,R=F	
<b>NGC 6637</b>	<b>M69</b>	<b>Globular</b>	<b>GCL,B,L,R,RRR,*14.16</b>
Jun 19 2020 12"	13mmHV	B,S,R=G	
Jul 01 2019 12"	17mm O	PF,S,R=G	
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	

## Sagittarius - The Archer

<b>NGC 6638</b>		<b>H51-1</b>	<b>Globular</b>	<b>GCL,B,S,R,RR</b>
Jun 19 2020	12"	13mmHV	F,S,R=G	
Jul 01 2019	12"	17mm O	F,PS,R=G	
Jul 05 2016	12"	8mm Et	F,PS,R=F	
Jul 16 2006	8"	19mmW	CF,PS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6642</b>		<b>H205-2</b>	<b>Globular</b>	<b>GCL,PB,PL,IR,GPMBM</b>
Jun 19 2020	12"	13mmHV	F,S,R=F	
Jul 05 2016	12"	8mm Et	PF,PS,R=F	
Jul 16 2006	8"	19mmW	F,CS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6644</b>			<b>Planetary Neb 2</b>	<b>PLN,STELLAR</b>
Sep 05 2007	8"	11mmT6	VF,VS,AV,R=F	
<b>NGC 6645</b>		<b>H23-6</b>	<b>Open Cluster 12.0 IV 1 m</b>	<b>CL,PL,VRI,PC,ST11.15</b>
Jul 26 2020	12"	8mm Et	F,S,R=F	
Jul 16 2006	8"	19mmW	PB,PS,R=G	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6647</b>		<b>H14-8</b>	<b>Open Cluster</b>	<b>CL,L,RI,LC,ST VS</b>
Jul 26 2020	12"	8mm Et	VF,VS,R=P	
<b>NGC 6652</b>			<b>Globular</b>	<b>B,S,LE,RRR,ST15</b>
Jul 13 2020	12"	13mmHV	F,PS,R=G	
Jun 19 2020	12"	13mmHV	PF,PS,R=F	
Jul 01 2019	12"	17mm O	PF,VS,R=G	
Jul 05 2016	12"	8mm Et	NOTT BAD FOR NON-MESSIER GLOBULAR	
Jul 16 2006	8"	19mmW	CF,CS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6656</b>		<b>M22</b>	<b>Globular</b>	<b>GCL,VB,VL,R,VRI,VMC</b>
Jul 13 2020	12"	13mmHV	B,L,R=E	
Jun 19 2020	12"	13mmHV	B,L,R=E. SQM: 20.26. 62 DEGREES, @0030 HOURS	
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 6681</b>		<b>M70</b>	<b>Globular</b>	<b>GCL,B,PL,R,GBM,</b>
Jun 19 2020	12"	13mmHV	F,S,R=G	



## Sagittarius - The Archer

<b>NGC 6681</b>	<b>M70</b>	<b>Globular</b>	<b>GCL,B,PL,R,GBM,</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	
<b>NGC 6715</b>	<b>M54</b>	<b>Globular</b>	<b>GCL,VB,L,R,G,SMBM,</b>
Jun 19 2020 12"	13mmHV	B,S,R=G	
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	
<b>NGC 6716</b>		<b>Open Cluster 8.3 IV 1 p</b>	<b>CL,PRI,ST9...13</b>
Jul 26 2020 12"	8mm Et	PF,PS,R=F	
Oct 08 2006 1.9"	12x50	F,S,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6717</b>	<b>H143-3</b>	<b>Globular</b>	<b>F,S,RR,CL+NEB</b>
Aug 02 2019 12"	17mm O	AKA: PAL9. F,PS,R=G	
Jun 19 2004 8"	7.5mmW	GOOD NIGHT - MEGASTAR	
<b>NGC 6723</b>		<b>Globular</b>	<b>GCL,VL,VLE,VGBM,RRR</b>
Aug 02 2019 12"	17mm O	B,S,R=G. IN THE SOUP. JUST A SMUDGE.	
Jul 16 2006 8"	19mmW	CF,PS,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
<b>NGC 6809</b>	<b>M55</b>	<b>Globular</b>	<b>GCL,PB,L,R,VRI,VGBM</b>
Jun 19 2020 12"	13mmHV	FR,L,R=F	
Aug 02 2019 12"	17mm O	B,L,R=E	
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 6818</b>	<b>H51-4</b>	<b>Planetary Neb 4</b>	<b>PLN,B,VS,R</b>
Sep 19 2014 12"	11mmT6	B,S,ROUND DOT, HOME - 8/14/14	
Jul 09 2005 8"	11mmT6	VB,VS,R,R=G	
<b>NGC 6822</b>		<b>Galaxy IB(s)m</b>	<b>VF,L,E,DIF</b>
Sep 04 2004 8"	11mmT6	VF,L,OVAL,NND,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	

## Sagittarius - The Archer

<b>NGC 6835</b>			<b>Galaxy SB(s)a? sp</b>	<b>F,PL,ME</b>
Aug 12 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
<b>NGC 6836</b>			<b>Galaxy SABm</b>	<b>VF,PL,R,DIF</b>
Aug 12 2005 8"	7.5mmW	VF,VS,R,NND,AV,R=F		
<b>NGC 6864</b>	<b>M75</b>		<b>Globular</b>	<b>GCL,B,PL,R,VMBMBN,RR</b>
Jun 19 2020 12"	13mmHV	B,PS,R=F		
Aug 02 2019 12"	17mm O	B,PS,R=E		
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		
<b>PAL 8</b>			<b>Globular</b>	
Aug 02 2019 12"	17mm O	PF,PS,R=P		
Jul 09 2005 8"	11mmT6	VF,ML,R,R=F		
<b>PK 006+02.5</b>			<b>Invalid Type</b>	
Aug 02 2019 12"	17mm O	PF,VS,R=F. OIII		
<b>TER 8</b>			<b>Globular</b>	
Jul 31 2005 8"	11mmT6	VF,VS,R,LOWSB,R=F		
<b>TER 9</b>			<b>Globular</b>	
Aug 06 2010 28"	26mm	PF,PS,SMUDGE, NO STARS RESOLVED		

## Taurus - The Bull

<b>IC</b>	<b>329</b>		<b>Galaxy S?</b>	
	Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>330</b>		<b>Galaxy Sab</b>	
	Dec 13 2012 18"	7mm TV	VF,VS,OVAL,PEXT,UB,NND,AV,R=F	
<b>IC</b>	<b>331</b>		<b>Galaxy S?</b>	
	Dec 13 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>IC</b>	<b>374</b>		<b>Galaxy</b>	
	Dec 18 2006 31"	20mmUV	PF,S,EON,NND,R=F	
<b>IC</b>	<b>1918</b>		<b>Galaxy</b>	
	Dec 13 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,AV,R=F	
<b>IC</b>	<b>1931</b>		<b>Galaxy D</b>	
	Dec 13 2012 18"	7mm TV	VF,VS,R,UB,NND,AV3,R=P	
<b>IC</b>	<b>1995</b>		<b>Non-Existent</b>	
	Nov 23 2006 8"	19mmW	F,PS,DIM PATCH,R=F	
<b>M</b>	<b>45</b>	<b>M45</b>	<b>Open Cluster</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>MAC</b>	<b>0405+2526</b>		<b>Galaxy</b>	
	Dec 18 2006 31"	20mmUV	VF,VS,EL,OVAL,NND,R=F	
<b>MEL</b>	<b>25</b>		<b>Open Cluster</b>	
	Nov 04 2007 1.9"	12x50	VB,VL,SCATTERED,R=G	
	Oct 29 2006 8"	19mmW	B,L,LOOSE,R,R=G	
	Dec 15 2004 8"	11mmT6	BRIGHT SCATTERED STARS	
<b>NGC</b>	<b>1349</b>		<b>Galaxy S0</b>	<b>EEF,S,R,BET2*</b>
	Dec 13 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F	
<b>NGC</b>	<b>1432</b>		<b>Nebula R</b>	<b>EF,VL,DIF, MAIA</b>
	Oct 29 2006 1.9"	12x50	B,L,R=G	
	Mar 19 2006 8"	25mmPL	B,VL,IRREGULAR SHAPE,R=G	
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	

## Taurus - The Bull

<b>NGC 1432</b>			<b>Nebula R</b>	<b>EF,VL,DIF, MAIA</b>
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 1508</b>			<b>Galaxy Sc</b>	<b>VF,VS,R,BM,R</b>
Dec 18 2006 31"	20mmUV	PF,PS,OVAL,NND,R=F		
<b>NGC 1514</b>		<b>H69-4</b>	<b>Planetary Neb 3+2</b>	<b>*9IN NEB3'DIAM</b>
Dec 04 2004 8"	11mmT6	VB,HISB,R=G		
<b>NGC 1517</b>			<b>Galaxy Scd:</b>	<b>VF,VS,R,R,*9,10SF</b>
Dec 18 2006 31"	20mmUV	CF,CS,OVAL,NND,R=F		
<b>NGC 1539</b>			<b>Galaxy C</b>	<b>VF,VS,GBM</b>
Dec 18 2006 31"	20mmUV	PF,S,R,NND,R=F		
<b>NGC 1554</b>			<b>Nebula R</b>	<b>VAR,S,R,NN=*13</b>
Nov 23 2006 8"	19mmW	F,PS,DIM PATCH,R=F		
<b>NGC 1587</b>		<b>H8-2</b>	<b>Galaxy E pec</b>	<b>F,PS,R,R,P OF D NEB</b>
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 1588</b>		<b>H9-2</b>	<b>Galaxy E pec?</b>	<b>F,VS,R,R,F OF DNEB</b>
Mar 20 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 1589</b>		<b>H7-2</b>	<b>Galaxy Sab sp</b>	<b>F,PL,LE132,*80"NP</b>
Dec 04 2004 8"	11mmT6	VF,EL,EON,AV,R=F		
<b>NGC 1615</b>			<b>Galaxy SA0-:</b>	<b>VF,VS,R,LBM,VS*INV</b>
Dec 18 2006 31"	20mmUV	F,S,OVAL,NND,R=F		
<b>NGC 1647</b>		<b>H8-8</b>	<b>Open Cluster 9.0 II 2 r</b>	<b>CL,VL,ST L,SC</b>
Nov 04 2007 1.9"	12x50	PB,PL,R=G		
Nov 09 2006 8"	19mmW	F,L,R=F		
Dec 04 2004 8"	11mmT6	R,R=F, SCATTERED STARS		
<b>NGC 1746</b>			<b>Open Cluster 8.0 III 2 p</b>	<b>CL,P</b>
Nov 04 2007 1.9"	12x50	PB,PL,R=F		
Dec 15 2004 8"	11mmT6	R,MSB,R=G		
<b>NGC 1750</b>		<b>H43-8</b>	<b>Open Cluster OCL</b>	<b>CL,ST L,VCSC</b>
Dec 15 2004 8"	11mmT6	R,MSB,R=G		
<b>NGC 1807</b>			<b>Open Cluster 9.0 II 2 p</b>	<b>CL,PRI,ST L\$S</b>
Nov 04 2007 1.9"	12x50	B,S,PAIR W/NGC 1817,R=F		
Nov 09 2006 8"	19mmW	F.S.COMPRESSED,R=F		
Dec 15 2004 8"	11mmT6	SMALL, FEWER STARTS R=F		

## Taurus - The Bull

<b>NGC 1817</b>		<b>H4-7</b>	<b>Open Cluster 9.0 IV 2 r</b>	<b>CL,L,RI,LC,ST11...14</b>
Nov 04 2007 1.9"	12x50	B,S,PAIR W/NGC 1807,R=F		
Nov 09 2006 8"	19mmW	F,PS,R=F		
Dec 15 2004 8"	11mmT6	SMALL, MANY STARS R=G		
<b>NGC 1952</b>	<b>M1</b>		<b>Nebula E</b>	<b>VB,VL,E135,VGLBM,R</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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"	20mmUV			
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>PGC 14253</b>			<b>Galaxy S IV</b>	
Dec 18 2006 31"	20mmUV	VF,PS,R,NND,AV,R=F		
<b>PGC 14314</b>			<b>Galaxy (R)SB(s)a</b>	
Dec 18 2006 31"	20mmUV	F,PS,OVAL,NND,R=F		
<b>PGC 14315</b>			<b>Galaxy (R')SAB(s)a</b>	
Dec 18 2006 31"	20mmUV	VF,PS,R,NND,AV,R=F		

## Triangulum - The Triangle

<b>CR</b>	<b>21</b>			<b>Open Cluster III3p</b>
	Oct 29 2008	16"	17mmT4	B,CS,15+ STARS,R=F
<b>IC</b>	<b>171</b>			<b>Galaxy E?</b>
	Nov 24 2006	31"	20mmUV	B,CS,OVAL,FNUC,R=F
<b>IC</b>	<b>200</b>			<b>Galaxy</b>
	Nov 02 2005	31"	19mmW	PF,ML,R,NND,R=F
<b>IC</b>	<b>221</b>			<b>Galaxy Sc</b>
	Dec 19 2006	31"	17mmT4	PF,L,OVAL,NND,R=F
<b>IC</b>	<b>226</b>			<b>Galaxy S?</b>
	Dec 19 2006	31"	17mmT4	CF,PS,OVAL,NND,R=F
<b>IC</b>	<b>227</b>			<b>Galaxy E</b>
	Dec 19 2006	31"	17mmT4	PB,L,OVAL,FNUC,MHISB,R=G
<b>IC</b>	<b>1718</b>			<b>Galaxy Compact</b>
	Nov 24 2006	31"	20mmUV	PF,S,R,NND,R=F
<b>IC</b>	<b>1727</b>			<b>Galaxy SB(s)m</b>
	Oct 29 2008	16"	17mmT4	PF,CS,EON,UB,NND,R=F
	Nov 10 2007	31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F
	Nov 24 2006	31"	20mmUV	PF,CL,EON,NND,R=F
	Nov 09 2004	8"	11mmT6	VF,EL,NND,AV,R=F
<b>IC</b>	<b>1784</b>			<b>Galaxy SA(rs)bc pec:</b>
	Dec 19 2006	31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F
<b>IC</b>	<b>1785</b>			<b>Galaxy E</b>
	Dec 19 2006	31"	17mmT4	CF,PS,OVAL,NND,AV,R=F
<b>IC</b>	<b>1789</b>			<b>Galaxy Sa:</b>
	Dec 19 2006	31"	17mmT4	PB,PL,ME,EON,FNUC,R=G
<b>IC</b>	<b>1792</b>			<b>Galaxy Compact</b>
	Dec 19 2006	31"	17mmT4	CB,PS,R,BNUC,R=G
<b>IC</b>	<b>1793</b>			<b>Galaxy Sab</b>
	Dec 19 2006	31"	17mmT4	CF,L,PME,OVAL,FNUC,R=F
<b>IC</b>	<b>1815</b>			<b>Galaxy SB0</b>
	Dec 12 2012	36"	17mmT4	PF,PS,OVAL,FNUC,R=G
	Dec 19 2006	31"	17mmT4	PB,PL,R,BNUC,HISB,R=E
<b>MAC</b>	<b>0135+3417</b>			<b>Galaxy</b>

## Triangulum - The Triangle

<b>MAC 0135+3417</b>		<b>Galaxy</b>
Nov 24 2006 31"	20mmUV	VF,VS,OVAL,NND,R=F
<b>MAC 0137+3309</b>		<b>Galaxy</b>
Nov 24 2006 31"	20mmUV	VF,VS,R,NND,R=F
<b>MAC 0147+3523</b>		<b>Galaxy</b>
Nov 24 2006 31"	20mmUV	VF,PS,OVAL,NND,R=F
<b>MAC 0149+3237</b>		<b>Galaxy</b>
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=P
<b>MAC 0205+3043</b>		<b>Galaxy</b>
Nov 02 2005 31"	19mmW	PF,FL,EL,OVAL,NND,AV,R=F
<b>MAC 0206+3107</b>		<b>Galaxy</b>
Nov 02 2005 31"	19mmW	VF,VS,EL,NND,AV,R=F
<b>MAC 0214+3051A</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,R=F
<b>MAC 0214+3051B</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,R=F
<b>MAC 0215+3041</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F
<b>MAC 0215+3047</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,PS,OVAL,NND,AV,R=F
<b>MAC 0216+2837</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,PS,EON,NND,AV,R=F
<b>MAC 0217+3220</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,PS,OVAL,NND,R=F
<b>MAC 0219+3424</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	PF,PS,R,NND,AV,R=F
<b>MAC 0219+3433</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,PS,OVAL,NND,R=F
<b>MAC 0219+3437</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,PS,OVAL,NND,R=F
<b>MAC 0227+2802</b>		<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,VS,R,NND,AV,R=F

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<b>MAC 0228+3118</b>			<b>Galaxy</b>		
Dec 19 2006 31"	17mmT4	VF,PS,R,NND,AV,R=F			
<b>MAC 0234+3247</b>			<b>Galaxy</b>		
Dec 19 2006 31"	17mmT4	PF,CS,R,NND,AV,R=F			
<b>MAC 0234+3253</b>			<b>Galaxy</b>		
Dec 19 2006 31"	17mmT4	VF,VS,R,NND,AV,R=F			
<b>NGC 598</b>	<b>M33</b>	<b>H17-5</b>	<b>Galaxy SA(s)cd</b>	<b>EB,EL,R,VGBMN</b>	<b>6</b>
Oct 09 2018 12"	35mm A	PB,VL,R=F, PRETTY	DIFFUSE.		
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"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES			
Mar 20 2009 1.9"	12x50	MESSIER MARATHON - 2009			
Oct 29 2008 16"	20mmUV	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 604</b>		<b>H150-3</b>	<b>Knot in Galaxy</b>	<b>B,VS,R,VVLBM</b>	
Nov 10 2007 31"	17mmT4	VB,PS,COMPACT RECTANGULAR,R=G			
<b>NGC 608</b>			<b>Galaxy S?</b>	<b>VF,PSBM,STELLAR</b>	
Nov 24 2006 31"	20mmUV	B,S,OVAL,NND,R=G			
<b>NGC 614</b>		<b>H174-3</b>	<b>Galaxy S0?</b>	<b>PF,PSBM,STELLAR</b>	
Nov 24 2006 31"	20mmUV	PB,O,R,FNUC,R=G			
<b>NGC 621</b>			<b>Galaxy SB0</b>	<b>VF,ES,R,BMN</b>	
Nov 24 2006 31"	20mmUV	PB,L,R,NND,R=F			
<b>NGC 634</b>			<b>Galaxy Sa</b>	<b>EF,ES,SEVF*INV</b>	
Nov 24 2006 31"	20mmUV	CB,CL,OVAL,FNUC,USB,R=G			
<b>NGC 661</b>		<b>H610-2</b>	<b>Galaxy E+:</b>	<b>F,S,R,BM,R</b>	
Nov 24 2006 31"	20mmUV	VB,CL,OVAL,BNUC,R=G			
<b>NGC 666</b>			<b>Galaxy S?</b>	<b>VF*IN EF,ES NEBY</b>	
Nov 24 2006 31"	20mmUV	PB,CL,OVAL,FNUC,R=G			



## Triangulum - The Triangle

<b>NGC 669</b>			<b>Galaxy Sab</b>	<b>PF,PL,ME,GBM</b>
Nov 24 2006 31"	20mmUV	PB,L,EON,B,FNUC,R=G		
<b>NGC 670</b>		<b>H611-2</b>	<b>Galaxy SA0</b>	<b>F,S,LE</b>
Nov 24 2006 31"	20mmUV	PB,CL,EON,FNUC,R=G		
<b>NGC 672</b>		<b>H157-1</b>	<b>Galaxy SB(s)cd</b>	<b>F,PL,ME80</b>
Oct 29 2008 16"	17mmT4	PF,PS,EON,FNUC,R=F		
Nov 10 2007 31"	17mmT4	PB,CL,EON,UB,NND,R=G		
Nov 24 2006 31"	20mmUV	B,PL,EON,UB,NND,R=F		
Nov 09 2004 8"	11mmT6	VF,EL,NND,AV,R=F		
<b>NGC 684</b>		<b>H612-2</b>	<b>Galaxy Sb sp</b>	<b>F,VLE,*13F100"</b>
Nov 24 2006 31"	20mmUV	CB,CL,EON,UB,FNUC,R=G		
<b>NGC 688</b>			<b>Galaxy (R')SAB(rs)b</b>	<b>VF,VS,(RESOLVABLE)</b>
Nov 24 2006 31"	20mmUV	PF,PL,OVAL,UB,NND,R=F		
<b>NGC 733</b>			<b>Galaxy</b>	<b>VF,2'P736</b>
Nov 24 2006 31"	20mmUV	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 735</b>		<b>H176-3</b>	<b>Galaxy Sb</b>	<b>EEF,STELLAR</b>
Nov 24 2006 31"	20mmUV	PF,PS,OVAL,NND,R=F		
<b>NGC 736</b>		<b>H221-2</b>	<b>Galaxy E+:</b>	<b>PB,R,BM</b>
Nov 24 2006 31"	20mmUV	CB,CL,OVAL,FNUC,R=G		
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 738</b>			<b>Galaxy S0</b>	<b>NEB,75"NF 736</b>
Nov 24 2006 31"	20mmUV	CF,CS,OVAL,NND,R=F		
<b>NGC 739</b>			<b>Galaxy S0?</b>	<b>CF,VS,R,INTRI OF*</b>
Nov 24 2006 31"	20mmUV	B,CS,VAL,UB,NND,R=F		
<b>NGC 740</b>		<b>H221-2</b>	<b>Galaxy SBb?</b>	<b>F,L,CE</b>
Nov 24 2006 31"	20mmUV	B,PL,EON,UB,NND,R=F		
<b>NGC 750</b>		<b>H222-2</b>	<b>Galaxy E pec</b>	<b>CB,PL,R,DW/751,25"</b>
Nov 09 2004 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
<b>NGC 751</b>			<b>Galaxy E pec</b>	<b>PF,ES,R,BM,DW/750</b>
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 761</b>			<b>Galaxy SBa:</b>	<b>PF,CL,4F* NR</b>
Nov 24 2006 31"	20mmUV	PB,PS,ELOVAL,UB,NND,R=F		
<b>NGC 777</b>		<b>H223-2</b>	<b>Galaxy E1</b>	<b>PB,PL,R,GLBM</b>

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<b>NGC 777</b>		<b>H223-2</b>	<b>Galaxy E1</b>	<b>PB,PL,R,GLBM</b>
Oct 29 2008 16"	17mmT4	PF,CS,R,FNUC,R=F		
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,MSB,R=G		
<b>NGC 783</b>			<b>Galaxy Sc</b>	<b>EF,S,IR,VF ST ATT</b>
Dec 18 2006 31"	20mmUV	B,PLMOVAL,NND,R=F		
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 784</b>			<b>Galaxy SBdm: sp</b>	<b>VF,L,E,(DOUBLE)</b>
Nov 09 2004 8"	11mmT6	VF,ELEON,NND,AV,R=F		
<b>NGC 785</b>			<b>Galaxy S0-:</b>	<b>EF,ES,VF*ATT</b>
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 789</b>			<b>Galaxy S?</b>	<b>VF,S,LE</b>
Nov 02 2005 31"	19mmW	MB,PL,R,FNUC,MSB,R=G		
<b>NGC 798</b>			<b>Galaxy E</b>	<b>EF,VS</b>
Nov 02 2005 31"	19mmW	MB,ML,EON,FNUC,MSB,R=G		
<b>NGC 805</b>			<b>Galaxy SB0</b>	<b>EF,ES,R,2*14P</b>
Nov 02 2005 31"	19mmW	MB,FS,OVAL,FNUC,R=F		
<b>NGC 807</b>		<b>H151-3</b>	<b>Galaxy E</b>	<b>VF,VS,IR,BET2*N\$SP</b>
Nov 02 2005 31"	19mmW	PB,FS,R,FNUC,MSB,R=G		
<b>NGC 855</b>		<b>H613-2</b>	<b>Galaxy E</b>	<b>F,S,LE90,BM</b>
Nov 09 2004 8"	11mmT6	VF,EL,EON,NND,AV,R=F		
<b>NGC 860</b>			<b>Galaxy E</b>	<b>*13IN F NEB</b>
Dec 19 2006 31"	17mmT4	PB,PS,OVAL,FNUC,R=F		
<b>NGC 861</b>			<b>Galaxy Sb</b>	<b>VF,S,D*ATT SP</b>
Dec 19 2006 31"	17mmT4	PB,CS,EON,FNUC,MHISB,R=G		
<b>NGC 865</b>			<b>Galaxy S?</b>	<b>EF,ES,IR</b>
Dec 19 2006 31"	17mmT4	PB,PL,PME,EON,UB,NND,R=G		
<b>NGC 890</b>		<b>H225-2</b>	<b>Galaxy SAB(r)0-?</b>	<b>B,S,R,BM,3F*SP</b>
Oct 29 2008 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
Nov 10 2007 31"	17mmT4	PB,PS,OVAL,BNUC,HSB,R=G		
Nov 09 2004 8"	11mmT6	MF,EL,OVAL,NND,MSB,R=G		
<b>NGC 925</b>		<b>H177-3</b>	<b>Galaxy SAB(s)d</b>	<b>CF,CL,E,VGBM,2*13NP</b>
Oct 29 2008 16"	17mmT4	PF,PS,OVAL,NND,LSB,R=F		
Nov 10 2007 31"	17mmT4	DIFF,B,PL,OVAL,NND,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		

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<b>NGC 931</b>		<b>Galaxy SAbc</b>	<b>F,PL,IR</b>
Dec 19 2006 31"	17mmT4	PB,L,EON,FNUC,HISB,R=G	
<b>NGC 949</b>		<b>H154-1 Galaxy SA(rs)b:?</b>	<b>CB,L,E,VGBM</b>
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,MSB,R=G	
<b>NGC 959</b>		<b>Galaxy Sdm:</b>	<b>EF,PL,LE,LBM</b>
Nov 09 2004 8"	11mmT6	MF,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 968</b>		<b>Galaxy E</b>	<b>PF,PS,R,BM</b>
Dec 19 2006 31"	17mmT4	PB,PL,OVAL,BNUC,HISB,R=G	
<b>NGC 969</b>		<b>Galaxy S0</b>	<b>S,R,PSBM,1ST OF 5</b>
Dec 19 2006 31"	17mmT4	PB,PL,E,OVAL,BNUC,HISB,R=G	
<b>NGC 970</b>		<b>Galaxy S</b>	<b>VF,VS,R,2ND OF 5</b>
Dec 19 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>NGC 971</b>		<b>Galaxy</b>	<b>VF,VS,R,3RD OF 5</b>
Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 973</b>		<b>Galaxy Sb</b>	<b>EEF,S,ME,PB*NR SP</b>
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=G,PA=45	
Dec 19 2006 31"	17mmT4	PB,CL,EON,BNUC,R=G	
<b>NGC 974</b>		<b>Galaxy SAB(rs)b:</b>	<b>VF,R,BM,4TH OF 5</b>
Dec 19 2006 31"	17mmT4	PB,PL,OVAL,FNUC,HISB,R=G	
<b>NGC 978</b>		<b>Galaxy S0-</b>	<b>PB,R,5TH OF 5</b>
Dec 19 2006 31"	17mmT4	VB,CL,OVAL,BNUC,HISB,R=G	
<b>NGC 978A</b>		<b>Non-Existent</b>	
Oct 30 2005 31"	17mmT4	MB,ML,EON,OVAL,NND,R=G	
<b>NGC 978B</b>		<b>Galaxy S0</b>	
Dec 19 2006 31"	17mmT4	PB,PL,OVAL,FNUC,R=F	
Oct 30 2005 31"	17mmT4	B,LITTLES SMALLER,OVAL,NND,R=F	
<b>NGC 987</b>		<b>H161-3 Galaxy SB0/a</b>	<b>F,S,VLE,BM,R,2*14 NP</b>
Dec 19 2006 31"	17mmT4	PB,CL,OVAL,BNUC,HISB,R=F	
<b>NGC 1060</b>		<b>H162-3 Galaxy S0-:</b>	<b>F,PL,R,LBM,*F46S,3'S</b>
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,FNUC,R=F	
<b>PGC 5873</b>		<b>Galaxy S</b>	
Nov 24 2006 31"	20mmUV	PF,PS,OVAL,NND,R=F	

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<b>PGC 5883</b>			<b>Galaxy</b>
Nov 24 2006 31"	20mmUV	PF,S,OVAL,NND,R=F	
<b>PGC 5904</b>			<b>Galaxy SABdm:</b>
Nov 24 2006 31"	20mmUV	PF,L,R,NND,R=F	
<b>PGC 6189</b>			<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4	PF,PS,EON,,AV,R=P,PA=50	
<b>PGC 6699</b>			<b>Galaxy Sdm</b>
Dec 12 2012 36"	17mmT4	B,S,EON,UB,NND,R=F,ABUTS PGC-6700,PA=45	
<b>PGC 6700</b>			<b>Galaxy C</b>
Dec 12 2012 36"	17mmT4	PF,VS,OVAL,UB,NND,R=F	
<b>PGC 7888</b>			<b>Galaxy</b>
Nov 02 2005 31"	19mmW	B,ML,R,NND,R=F	
<b>PGC 7931</b>			<b>Galaxy S?</b>
Nov 02 2005 31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 7967</b>			<b>Galaxy SBbc</b>
Nov 02 2005 31"	19mmW	MB,ML,OVAL,FNUC,MSB,R=G	
<b>PGC 8013</b>			<b>Galaxy S0-:</b>
Nov 02 2005 31"	19mmW	PB,FL,OVAL,FNUC,MSB,R=G	
<b>PGC 8019</b>			<b>Galaxy S?</b>
Nov 02 2005 31"	19mmW	FB,FL,EON,FNUC,MSB,R=G	
<b>PGC 8040</b>			<b>Galaxy SAB0^</b>
Nov 02 2005 31"	19mmW	FB,ML,OVAL,FNUC,MSB,R=G	
<b>PGC 8608</b>			<b>Galaxy C</b>
Dec 19 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>PGC 8613</b>			<b>Galaxy C</b>
Dec 19 2006 31"	17mmT4	CF,CS,OVAL,NND,R=F	
<b>PGC 8763</b>			<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 8842</b>			<b>Galaxy</b>
Dec 19 2006 31"	17mmT4	PF,PS,OVAL,NND,AV,R=F	
<b>PGC 8857</b>			<b>Galaxy C</b>
Dec 19 2006 31"	17mmT4	PF,VS,R,FNUC,R=F	

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**PGC 9134** **Galaxy Sd**

Dec 12 2012 36" 17mmT4 VF,VS,EON,NND,AV,R=F,PA=50

**PGC 9375** **Galaxy Scd:**

Dec 12 2012 36" 17mmT4 VF,PS,EON,UB,NND,AV3,R=F,PA=180

**PGC 9789** **Galaxy**

Dec 19 2006 31" 17mmT4 PF,S,E,OVAL,NND,R=F

**PGC 9820** **Galaxy S**

Dec 19 2006 31" 17mmT4 VF,VS,OVAL,NND,AV,R=F

## Ursa Major - The Great Bear

<b>CR</b>	<b>285</b>			<b>Open Cluster IV1p</b>	
Jul 21 2007	1.9"	12x50	EB,EL,VERY LOOSE,R=G		
<b>IC</b>	<b>694</b>			<b>Galaxy SBm? pec</b>	
Jun 22 2012	18"	8.8 ES	PF,PS,R,UB,NND,R=F,PAIRED W/NGC-3690		
<b>IC</b>	<b>2574</b>			<b>Galaxy SAB(s)m</b>	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
<b>MAC</b>	<b>1039+4754</b>			<b>Galaxy</b>	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC</b>	<b>1043+4053</b>			<b>Galaxy</b>	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC</b>	<b>1132+5307</b>			<b>Galaxy</b>	
Feb 23 2006	31"	17mmT4	PF,VS,R,NND,R=F		
<b>MAC</b>	<b>1133+5307A</b>			<b>Galaxy</b>	
Feb 23 2006	31"	17mmT4	VF,VS,OVAL,NND,AV,RF=F		
<b>MAC</b>	<b>1133+5307B</b>			<b>Galaxy</b>	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC</b>	<b>1133+5308</b>			<b>Galaxy</b>	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>NGC</b>	<b>2639</b>		<b>H204-1</b>	<b>Galaxy (R)SA(r)a:?</b>	<b>CB,S,E130,PSMBM</b>
Mar 16 2010	12"	11mmT6	PB,PS,OVAL,UB,NND,R=F		
<b>NGC</b>	<b>2681</b>		<b>H242-1</b>	<b>Galaxy (R')SAB(rs)0/a</b>	<b>VB,VL,VG,VSMBM*10</b>
May 10 2005	8"	11mmT6	MB,FS,R,FNUC,R=F		
<b>NGC</b>	<b>2685</b>			<b>Galaxy (R)SB0+ pec</b>	<b>PF,R,F*INCENTRE</b>
Mar 04 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC</b>	<b>2742</b>		<b>H249-1</b>	<b>Galaxy SA(s)c:</b>	<b>CB,CL,E90,ER</b>
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC</b>	<b>2756</b>		<b>H828-2</b>	<b>Galaxy Sb</b>	<b>PB,PS,E,VGBM</b>
Mar 28 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=F		
<b>NGC</b>	<b>2768</b>		<b>H250-1</b>	<b>Galaxy E6:</b>	<b>CB,CL,LE,PSBMLBN</b>
Mar 04 2006	8"	11mmT6	MB,ML,OVAL,NND,R=F		
<b>NGC</b>	<b>2787</b>		<b>H216-1</b>	<b>Galaxy SB(r)0+</b>	<b>B,PL,LE90,MBM,R,*INV</b>
Mar 04 2006	8"	11mmT6	F,PS,R,NND,R=F		

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<b>NGC 2805</b>		<b>H878-3</b>	<b>Galaxy SAB(rs)d</b>	<b>VF,L,R,MBM</b>
Jun 07 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 2841</b>		<b>H205-1</b>	<b>Galaxy SA(r)b:</b>	<b>VB,L,VME151,VSMBM*10</b>
Mar 04 2006 8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G		
<b>NGC 2880</b>		<b>H260-1</b>	<b>Galaxy SB0-</b>	<b>B,CS,R,MBM,AM ST</b>
Mar 04 2006 8"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 2950</b>		<b>H68-4</b>	<b>Galaxy (R)SB(r)0^</b>	<b>B,PS,R,VGVMBMN</b>
Mar 04 2006 8"	11mmT6	PB,PS,R,FNUC,,R=G		
<b>NGC 2976</b>		<b>H285-1</b>	<b>Galaxy SAc pec</b>	<b>B,VL,ME152,ST INV</b>
Mar 04 2006 8"	11mmT6	DIFF,F,FL,EON,NND,R=F		
<b>NGC 2985</b>		<b>H78-1</b>	<b>Galaxy (R')SA(rs)ab</b>	<b>VB,CL,R,PSMBM,*INV F</b>
Mar 04 2006 8"	11mmT6	PB,FS,OVAL,FNUC,R=G		
<b>NGC 3031</b>	<b>M81</b>		<b>Galaxy SA(s)ab</b>	<b>EB,EL,E156,GSVMBMBN 2</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6	NICE		
Apr 20 2018 12"	11mmT6			
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		
<b>NGC 3034</b>	<b>M82</b>	<b>H79-4</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6	NICE		
Apr 20 2018 12"	11mmT6			
Jul 25 2017 12"	11mmT6	NOT BAD		

## Ursa Major - The Great Bear

<b>NGC</b>	<b>3034</b>	<b>M82</b>	<b>H79-4</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
	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</b>	<b>3065</b>		<b>H333-2</b>	<b>Galaxy SA(r)0^</b>	<b>PF,VS,R,BM,*11NR</b>
	Mar 28 2011 12"	5mm TV	VF,PS,R,UB,NND,AV,R=F		
<b>NGC</b>	<b>3073</b>		<b>H853-3</b>	<b>Galaxy SAB0-</b>	<b>VF,S,VGLBM</b>
	Mar 28 2011 12"	5mm TV	VF,VS,R,UB,NND,AV,R=F		
<b>NGC</b>	<b>3077</b>		<b>H286-1</b>	<b>Galaxy I0 pec</b>	<b>CB,CL,MBM,R WITH RAY</b>
	Mar 13 2007 8"	11mmT6	PF,L,OVAL,NND,AV,R=F		
	May 24 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC</b>	<b>3079</b>		<b>H47-5</b>	<b>Galaxy SB(s)c sp</b>	<b>VB,L,ME135</b>
	Mar 04 2006 8"	11mmT6	PF,FL,EON,NND,R=F		
<b>NGC</b>	<b>3184</b>		<b>H168-1</b>	<b>Galaxy SBc</b>	<b>PB,VL,R,VGBM</b>
	Mar 13 2007 8"	11mmT6	VF,S,R,NND,AV,R=F		
<b>NGC</b>	<b>3198</b>		<b>H199-1</b>	<b>Galaxy SB(rs)c</b>	<b>PB,VL,ME45,VGBM</b>
	Mar 13 2007 8"	11mmT6	VF,S,EON,NND,AV,R=F		
<b>NGC</b>	<b>3206</b>		<b>H266-1</b>	<b>Galaxy SB(s)cd</b>	<b>PB,CL,E,VGLBM</b>
	Apr 09 2010 12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
<b>NGC</b>	<b>3225</b>		<b>H882-2</b>	<b>Galaxy Scd:</b>	<b>CF,PL,LE,VGBM</b>
	Mar 28 2011 12"	5mm TV	VF,VS,OVAL,NND,AV,R=F		
<b>NGC</b>	<b>3310</b>		<b>H60-4</b>	<b>Galaxy SAB(r)bc pec</b>	<b>CB,PL,R,VG,VSMBMN</b>
	May 31 2019 12"	11mmT6	F,PS,OVAL,MEXT,NND,R=F		



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<b>NGC 3310</b>		<b>H60-4</b>	<b>Galaxy SAB(r)bc pec</b>	<b>CB,PL,R,VG,VSMBMN</b>
Mar 13 2007 8"	11mmT6	CB,PS,R,FNUC,R=G		
<b>NGC 3319</b>		<b>H700-3</b>	<b>Galaxy SB(rs)cd</b>	<b>CF,L,IE,MB,S OF M</b>
Jun 19 2020 12"	11mmT6	PF,PS,R,UB,NND,R=F		
Apr 09 2010 12"	11mmT6	DIFF,CF,PS,OVAL,MEXT,NND,AV,R=F		
<b>NGC 3348</b>		<b>H80-1</b>	<b>Galaxy E0</b>	<b>B,S,ILE,PSBM,*11F21S</b>
Jul 26 2019 12"	8mm Et	PF,PS,R,UB,NND,R=F		
<b>NGC 3359</b>		<b>H52-5</b>	<b>Galaxy SB(rs)c</b>	<b>PB,L,E0,GLBM</b>
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G		
<b>NGC 3406</b>			<b>Galaxy E</b>	<b>PB,R,PGBM</b>
May 30 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F		
<b>NGC 3435</b>		<b>H887-2</b>	<b>Galaxy Sb</b>	<b>CF,PS,LE,VGBM</b>
May 30 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 3440</b>		<b>H914-3</b>	<b>Galaxy SBb? sp</b>	<b>VF,S,LE</b>
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=50		
<b>NGC 3445</b>		<b>H267-1</b>	<b>Galaxy SAB(s)m</b>	<b>CB,PL,IR,VGLBM,*NF2'</b>
May 30 2014 18"	8mm Ds	PFL,PS,R,UB,NND,R=F		
<b>NGC 3448</b>		<b>H233-1</b>	<b>Galaxy I0</b>	<b>B,PL,ME67,GBM</b>
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 3458</b>		<b>H268-1</b>	<b>Galaxy SAB0:</b>	<b>VB,VS,R,STELLAR</b>
Apr 09 2010 12"	11mmT6	PB,CS,R,BNUC,R=G		
<b>NGC 3471</b>		<b>H972-3</b>	<b>Galaxy Sa</b>	<b>VF,S,R,BM</b>
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 3516</b>		<b>H336-2</b>	<b>Galaxy (R)SB(s)0^:</b>	<b>PB,VS,IR,PSMBM*</b>
Jul 14 2010 12"	7.5mmW	PF,CS,OVAL,FNUC,R=F		
<b>NGC 3549</b>		<b>H220-1</b>	<b>Galaxy SA(s)c:</b>	<b>CB,CL,CE160</b>
Jun 19 2020 12"	8mm Et	PF,PS,OVAL,PEXT,UB,NND,R=F		
<b>NGC 3556</b>	<b>M108</b>	<b>H46-5</b>	<b>Galaxy SB(s)cd sp</b>	<b>CB,VL,VME79,PBM,R</b>
Jun 19 2020 12"	11mmT6			
Jun 19 2020 12"	13mmHV	NICE		
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6			
Apr 20 2018 12"	11mmT6			
Jul 15 2015 12"	17mmT4			

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<b>NGC 3556</b>	<b>M108</b>	<b>H46-5</b>	<b>Galaxy SB(s)cd sp</b>	<b>CB,VL,VME79,PBM,R</b>
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 3583</b>		<b>H728-2</b>	<b>Galaxy SB(s)b</b>	<b>PB,PL,R,VGMBM</b>
Jul 14 2010 12"	7.5mmW	DIFF,CF,PS,OVAL,UB,NND,R=F		
<b>NGC 3587</b>	<b>M97</b>		<b>Planetary Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>
Jun 19 2020 12"	13mmHV	GOOD		
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6	WAS HARD TO SEE. OIII DIDN'T HELP.		
Apr 20 2018 12"	11mmT6			
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 3600</b>		<b>H709-2</b>	<b>Galaxy Sa?</b>	<b>PF,S,LE0,VGBM</b>
Jun 19 2020 12"	8mm Et	PF,PS,OVAL,VEXT,UB,NND,R=F,PA=40		
<b>NGC 3610</b>		<b>H270-1</b>	<b>Galaxy E5:</b>	<b>VB,PS,LE90,VSVMBMSN</b>
Jun 24 2020 12"	8mm Et	F,PS,R,FNUC,R=G		
Mar 17 2007 8"	11mmT6	PB,S,R,BNUC,R=G		
Mar 13 2007 8"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 3613</b>		<b>H271-1</b>	<b>Galaxy E6</b>	<b>VB,CL,ME305,SMBMN</b>
Jun 19 2020 12"	11mmT6	PF,PS,OVAL,FNUC,R=F		
Mar 17 2007 8"	11mmT6	F,PS,OVAL,FNUC,R=G		

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<b>NGC 3614</b>		<b>H729-2</b>	<b>Galaxy SAB(r)c</b>	<b>F,PL,LE90,GLBM,R</b>
Jun 19 2020	12"	8mm Et	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 3619</b>		<b>H244-1</b>	<b>Galaxy (R)SA(s)0+:</b>	<b>CB,CL,R,VGMBM</b>
Mar 17 2007	8"	11mmT6	F,PS,R,NND,R=F	
<b>NGC 3622</b>		<b>H879-2</b>	<b>Galaxy S?</b>	<b>PB,S,R,GBM</b>
Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,AV,R=F	
<b>NGC 3631</b>		<b>H226-1</b>	<b>Galaxy SA(s)c</b>	<b>PB,L,R,SVMBMRN</b>
Jun 03 2019	12"	8mm Et	PF,S,RT,NND,R=F, NO STRUCTURE DETECTED.	
Mar 17 2007	8"	11mmT6	B,PL,R,FNUC,R=G	
<b>NGC 3642</b>		<b>H245-1</b>	<b>Galaxy SA(r)bc:</b>	<b>PB,PL,R,VGBM</b>
Jun 24 2020	12"	8mm Et	VF,S,R,UB,NND,R=F	
Mar 17 2007	8"	11mmT6	F,PL,OVAL,NND,R=F	
<b>NGC 3652</b>		<b>H775-2</b>	<b>Galaxy Scd?</b>	<b>PF,CL,LE,VGBM</b>
Mar 28 2011	12"	5mm TV	PF,PS,OVAL,UB,NND,R=F,PA=115	
<b>NGC 3654</b>		<b>H880-2</b>	<b>Galaxy S?</b>	<b>F,S,LE15</b>
May 30 2014	18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 3656</b>		<b>H782-2</b>	<b>Galaxy (R')I0: pec</b>	<b>PB,S,R,VGBM,*12P</b>
May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F	
<b>NGC 3657</b>		<b>H768-3</b>	<b>Galaxy SAB(rs)c pec</b>	<b>CF,VS,R,STELLAR</b>
May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F	
<b>NGC 3668</b>		<b>H845-2</b>	<b>Galaxy Sbc</b>	<b>F,PS,IR,GBM,*9NP</b>
Jul 14 2010	12"	7.5mmW	VF,CS,R,UB,NND,AV,R=F	
<b>NGC 3669</b>		<b>H829-2</b>	<b>Galaxy SBcd: sp</b>	<b>VF,PL,PME135,ER</b>
Jul 14 2010	12"	7.5mmW	VF,CS,EON,UB,NND,AV,R=P	
<b>NGC 3674</b>		<b>H886-2</b>	<b>Galaxy S0 sp</b>	<b>PF,IF</b>
May 30 2014	18"	8mm Ds	PF,PS,OVAL,EEXT,UB,NND,R=F,PA=25	
<b>NGC 3675</b>		<b>H194-1</b>	<b>Galaxy SA(s)b</b>	<b>VB,CL,VME0,VSMBMN</b>
Mar 17 2007	8"	11mmT6	PB,PL,EL,OVAL,BNUC,R=G	
<b>NGC 3683</b>		<b>H246-1</b>	<b>Galaxy SB(s)c?</b>	<b>CB,PL,E</b>
Mar 28 2011	12"	5mm TV	VF,PS,OVAL,UB,NND,AV,R=F	
<b>NGC 3690</b>		<b>H247-1</b>	<b>Galaxy IBm pec</b>	<b>PB,PS,VLE80,PGBM</b>
Jun 22 2012	18"	8.8 ES	PF,PS,OVAL,UB,NND,R=F,PAIRED W/IC-694	

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<b>NGC 3718</b>		<b>H221-1</b>	<b>Galaxy SB(s)a pec</b>	<b>PB,VL,R,VGLBM</b>
May 23 2012 18"	8.8 ES	F,S,OVAL,MEXT,UB,NND,R=F		
Feb 23 2006 31"	17mmT4	VB,VL,OVAL,BNUC,HISB,R=G		
<b>NGC 3726</b>		<b>H730-2</b>	<b>Galaxy SAB(r)c</b>	<b>PB,VL,LE0,VSMBM,*11N</b>
Mar 17 2007 8"	11mmT6	PF,PL,OVAL,NND,R=F		
<b>NGC 3729</b>		<b>H222-1</b>	<b>Galaxy SB(r)a pec</b>	<b>PB,PL,LE0,GBM,*12NR</b>
Feb 23 2006 31"	17mmT4	FB,FL,R,BNUC,HISB,R=G		
<b>NGC 3738</b>		<b>H783-2</b>	<b>Galaxy Im</b>	<b>PB,PL,BM</b>
Jun 22 2012 18"	8.8 ES	B,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3756</b>		<b>H784-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>PF,L,LE</b>
Mar 01 2011 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3813</b>		<b>H94-1</b>	<b>Galaxy SA(rs)b:</b>	<b>CB,PL,PME90,BM</b>
Mar 17 2007 8"	11mmT6	CF,CS,OVAL,NND,R=F		
<b>NGC 3877</b>		<b>H201-1</b>	<b>Galaxy SA(s)c:</b>	<b>B,L,ME37</b>
Apr 14 2010 16"	11mmT6	PB,PL,EON,FNUC,R=G		
Mar 17 2007 8"	11mmT6	PF,PL,EON,NND,R=F		
<b>NGC 3888</b>		<b>H785-2</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,S,LE,PGBM</b>
Mar 17 2007 8"	11mmT6	PF,PS,UB,NND,R=F		
<b>NGC 3893</b>		<b>H738-2</b>	<b>Galaxy SAB(rs)c:</b>	<b>B,PL,R,MBM</b>
Jun 03 2019 12"	8mm Et	PF,PS,R,UB,FNUC,R=G		
Mar 17 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 3896</b>		<b>H739-2</b>	<b>Galaxy SB0/a: pec</b>	<b>F,VS</b>
Jun 03 2019 12"	8mm Et	PF,VS,R,UB,NND,R=F		
<b>NGC 3898</b>		<b>H228-1</b>	<b>Galaxy SA(s)ab</b>	<b>B,PL,LE,SVMBM</b>
Mar 17 2007 8"	11mmT6	PB,PS,OVALFNUC,R=G		
<b>NGC 3938</b>		<b>H203-1</b>	<b>Galaxy SA(s)c</b>	<b>B,VL,R,BMPBN,ER</b>
Jun 03 2019 12"	8mm Et	PF,S,R,UB,NND,R=F		
Mar 17 2007 8"	11mmT6	DIFF,PF,PL,OVAL,NND,R=F		
<b>NGC 3941</b>		<b>H173-1</b>	<b>Galaxy SB(s)0^</b>	<b>VB,PL,R,SMBM*9</b>
Mar 17 2007 8"	11mmT6	PB,CS,OVA,,BNUC,R=G		
<b>NGC 3945</b>		<b>H251-1</b>	<b>Galaxy (R)SB(rs)0+</b>	<b>B,PL,R,GMBM,R,*12SP</b>
Mar 17 2007 8"	11mmT6	PF,S,OVAL,NND,R=F		
<b>NGC 3949</b>		<b>H202-1</b>	<b>Galaxy SA(s)bc:</b>	<b>CB,PL,PME,VGBM</b>

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<b>NGC 3949</b> Mar 17 2007 8"	11mmT6	<b>H202-1</b> PF,S,OVAL,NND,R=F	<b>Galaxy SA(s)bc:</b>	<b>CB,PL,PME,VGBM</b>
<b>NGC 3953</b> Mar 18 2007 8"	11mmT6	<b>H45-5</b> PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy SB(r)bc</b>	<b>CB,L,E0,VSMBLRN</b>
<b>NGC 3982</b> Mar 18 2007 8"	11mmT6	<b>H62-4</b> PF,L,OVAL,NND,=F	<b>Galaxy SAB(r)b:</b>	<b>B,PL,R,G,SBM,DISC</b>
<b>NGC 3992</b> Apr 20 2018 12" Jul 15 2015 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 19 2006 8" Mar 19 2004 8" Mar 09 2004 8"	<b>M109</b> 11mmT6 17mmT4 17mmAT 17mmAT 26mm 26mm 19mmW 25mmPL 25mmPL	<b>H61-4</b> 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 F,FS,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPTER = ARGO NAVIS	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SBMBRN</b>
<b>NGC 3998</b> Mar 18 2007 8"	11mmT6	<b>H229-1</b> PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy SA(r)0^?</b>	<b>CB,PS,R,VG,SMBM</b>
<b>NGC 4013</b> Mar 01 2011 12"	11mmT6	<b>H733-2</b> PF,PS,EON,BNUC,R=G	<b>Galaxy Sb sp</b>	<b>B,CL,ME62,VSMBM*10</b>
<b>NGC 4026</b> Mar 18 2007 8"	11mmT6	<b>H223-1</b> PB,L,OVAL,FNUC,MSB,R=G	<b>Galaxy S0 sp</b>	<b>VB,CL,ME176,VSMBMBN</b>
<b>NGC 4036</b> Mar 18 2007 8"	11mmT6	<b>H253-1</b> PB,PL,EON,FNUC,MSB,R=G	<b>Galaxy S0-</b>	<b>VB,VL,E</b>
<b>NGC 4041</b> Mar 18 2007 8"	11mmT6	<b>H252-1</b> PF,PL,R,NND,R=F	<b>Galaxy SA(rs)bc:</b>	<b>B,CL,R,G,PSVMBMRN</b>
<b>NGC 4047</b> Mar 01 2011 12"	11mmT6	<b>H741-2</b> PF,CS,R,UB,NND,R=F	<b>Galaxy (R)SA(rs)b:</b>	<b>PB,PS,R</b>
<b>NGC 4051</b> Jun 03 2019 12" Mar 18 2007 8"	8mm Et 11mmT6	<b>H56-4</b> PF,PS,R,FNUC,R=G PF,L,R,NND,AV,R=F	<b>Galaxy SAB(rs)bc</b>	<b>B,VL,E,VGVSM*11</b>
<b>NGC 4062</b> Mar 28 2011 12"	7mm TV	<b>H174-1</b> PF,PS,OVAL,PEXT,R=G,BRIGHTER TOWARDS THE MIDDLE	<b>Galaxy SA(s)c</b>	<b>PB,VL,ME97,VGBM</b>
<b>NGC 4085</b> Mar 18 2007 8"	11mmT6	<b>H224-1</b> VF,PS,EL,EON,NND,AV,R=F	<b>Galaxy SAB(s)c:?</b>	<b>B,PL,ME78,VSMB</b>

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<b>NGC 4088</b> Mar 18 2007 8"	11mmT6	<b>H206-1</b> PF,L,EON,UB,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>B,CL,E55,LBM</b>
<b>NGC 4096</b> Mar 01 2011 12"	11mmT6	<b>H207-1</b> PF,PS,EON,FNUC,R=F	<b>Galaxy SAB(rs)c</b>	<b>PB,VL,ME32</b>
<b>NGC 4100</b> Mar 01 2011 12"	17mmAT	<b>H717-3</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy (R')SA(rs)bc</b>	<b>PB,VL,VME161,VGVLBM</b>
<b>NGC 4102</b> Mar 18 2007 8"	11mmT6	<b>H225-1</b> PF,PS,EL,OVAL,UB,NND,R=F	<b>Galaxy SAB(s)b?</b>	<b>B,PS,R,BMBN,*12SPVNR</b>
<b>NGC 4144</b> Mar 01 2011 12"	11mmT6	<b>H747-2</b> PF,PS,EON,FNUC,R=F	<b>Galaxy SAB(s)cd? sp</b>	<b>PF,CL,VME109,VGBM</b>
<b>NGC 4157</b> Mar 16 2012 18" Aug 06 2010 12"	8.8 ES 7mm TV	<b>H208-1</b> PFB,PS,EON,FNUC,R=F, A.L. FLAT GALAXY PF,PS,EON,UB,NND,R=F	<b>Galaxy SAB(s)b? sp</b>	<b>PF,CL,VME60,(DOUBLE)</b>
<b>NGC 4271</b> Mar 28 2011 12"	5mm TV	<b>H804-2</b> PF,VS,OVAL,VFNUC,R=F	<b>Galaxy S0-:</b>	<b>PB,PL,IF</b>
<b>NGC 4290</b> Mar 01 2011 12"	11mmT6	<b>H805-2</b> CF,CS,OVAL,UB,NND,R=F	<b>Galaxy SB(rs)ab:</b>	<b>PB,L,R,GMBM</b>
<b>NGC 4605</b> Aug 31 2010 12"	7mm TV	<b>H254-1</b> DIFF,CF,PS,OVAL,UB,NND,R=F. PA=90	<b>Galaxy SB(s)c pec</b>	<b>B,L,VME118,GLBM</b>
<b>NGC 5204</b> Mar 01 2011 12"	11mmT6	<b>H63-4</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SA(s)m</b>	<b>PB,CL,IR,GMBM,R</b>
<b>NGC 5308</b> Mar 01 2011 12"	11mmT6	<b>H255-1</b> PF,CS,EON,FNUC,R=G	<b>Galaxy S0- sp</b>	<b>B,PL,ME57,PSMBEN</b>
<b>NGC 5322</b> Mar 18 2007 8"	11mmT6	<b>H256-1</b> PB,L,OVAL,FNUC,HISB,R=G	<b>Galaxy E3-4</b>	<b>VB,PL,IR,PSMBM</b>
<b>NGC 5430</b> Mar 01 2011 12"	11mmT6	<b>H827-2</b> CF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SB(s)b</b>	<b>PB,S,IE,MBM</b>
<b>NGC 5443</b> Mar 01 2011 12"	11mmT6	<b>H799-2</b> VF,CS,OVAL,PEXT,UB,NND,AV,R=F	<b>Galaxy SB(s)b?</b>	<b>PF,L,E</b>
<b>NGC 5447</b> Mar 01 2011 12"	11mmT6	<b>H787-3</b> BRIGHT SPOT SW SIDE OF - KNOT IN GALAXY	<b>Knot in Galaxy</b>	<b>PB,S,R,GMBM,CONNM101</b>
<b>NGC 5448</b>		<b>H691-2</b>	<b>Galaxy (R)SAB(r)a</b>	<b>PB,CL,VME90,SMBMN</b>

## Ursa Major - The Great Bear

<b>NGC 5448</b>		<b>H691-2</b>	<b>Galaxy (R)SAB(r)a</b>	<b>PB,CL,VME90,SMBMN</b>
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5457</b>	<b>M101</b>		<b>Galaxy SAB(rs)cd</b>	<b>PB,VL,IR,G,VSMBMSN 4</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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 5462</b>		<b>H789-3</b>	<b>Knot in Galaxy</b>	<b>PB,PL,IR,GBM,CONM101</b>
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SE SIDE - KNOT IN GALAXY		
<b>NGC 5473</b>		<b>H231-1</b>	<b>Galaxy SAB(s)0-:</b>	<b>PB,S,R,GBM</b>
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
Mar 18 2007 8"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 5474</b>		<b>H214-1</b>	<b>Galaxy S(c)</b>	<b>PB,L,BM</b>
Mar 18 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
<b>NGC 5480</b>		<b>H692-2</b>	<b>Galaxy SA(s)c:</b>	<b>F,PS,VGBM,NP OF 2</b>
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 5481</b>		<b>H693-2</b>	<b>Galaxy E+</b>	<b>F,VS,SMBM,STELL,SF-2</b>
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 5485</b>		<b>H232-1</b>	<b>Galaxy SA0 pec</b>	<b>CB,R,VGBM,F OF 2</b>
Mar 18 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F		
<b>NGC 5585</b>		<b>H235-1</b>	<b>Galaxy SAB(s)d</b>	<b>PF,L,IR,VGMBM,R</b>
Mar 01 2011 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5631</b>		<b>H236-1</b>	<b>Galaxy SA(s)0^</b>	<b>B,S,R,PSBMN</b>
Mar 18 2007 8"	11mmT6	CF,CS,R,NND,R=F		
<b>PAL 4</b>			<b>Globular</b>	
Apr 06 2010 12"	11mmT6	VF,VS,AV,R=F,FAINT SMUDGE, 12TH MAG START TO WEST.		
<b>PGC 29472</b>			<b>Galaxy SB(s)c? sp</b>	
May 25 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=125		

## Ursa Major - The Great Bear

<b>PGC 31697</b>		<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 31720</b>		<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 31959</b>		<b>Galaxy SBb</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 31965</b>		<b>Galaxy S0/a</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,FNUC,MSB,R=G
<b>PGC 34303</b>		<b>Galaxy S0</b>
Feb 23 2006 31"	17mmT4	PB,PL,R,BNUC,HISB,R=G
<b>PGC 34733</b>		<b>Galaxy Sd</b>
Feb 23 2006 31"	17mmT4	FB,FL,EOB,FNUC,MSB,R=G
<b>PGC 34768</b>		<b>Galaxy SB(s)ab</b>
Feb 23 2006 31"	17mmT4	FB,FL,R,FNUC,MSB,R=G
<b>PGC 35609</b>		<b>Galaxy SB0 pec:</b>
Feb 23 2006 31"	17mmT4	FF,PS,OVAL,NND,R=F
<b>PGC 35615</b>		<b>Galaxy SA(s)0/a pec:</b>
Feb 23 2006 31"	17mmT4	PB,FS,R,NND,R=G
<b>PGC 35618</b>		<b>Galaxy (R')S0/a pec:</b>
Feb 23 2006 31"	17mmT4	PB,FS,OVAL,FNUC,MSB,R=G
<b>PGC 35620</b>		<b>Galaxy Sa pec sp</b>
Feb 23 2006 31"	17mmT4	PB,FS,OVA,FNUC,MSB,R=G
<b>PGC 35631</b>		<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4	PF,PL,EON,NND,R=F
<b>PGC 36343</b>		<b>Galaxy Scd:</b>
May 30 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=90
<b>WINN 4</b>	<b>M40</b>	<b>Unknown STAR</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



## Ursa Major - The Great Bear

**WINN 4**                      **M40**                                      **Unknown STAR**  
 Dec 30 2003 8"      25mmPL      H/M COLD

## Ursa Minor - The Little Bear

**NGC 5144**                      **H70-4**                      **Galaxy SAc? pec**                      **(PLN),CB,S,R,G,SLBM**  
 Sep 02 2016 12"      8mm Et      VF,VS,OCAL,UB,NND,R=F

**NGC 5832**                      **H332-2**                      **Galaxy SB(rs)b?**                      **PB,CL,IR,BP,R**  
 Sep 02 2016 12"      8mm Et      VF,PS,OVAL,AV1,R=P

**NGC 6048**                      **H873-2**                      **Galaxy E**                      **F,R,BM**  
 Sep 02 2016 12"      8mm Et      PF,PS,OVAL,NND,R=F

**NGC 6068**                      **H973-3**                      **Galaxy SBbc?**                      **VF,VS,LE0,R**  
 Sep 02 2016 12"      8mm Et      VF,VS,OVAL,NNDL,AV,R=F

**NGC 6079**                      **H884-3**                      **Galaxy E**                      **VF,VS**  
 Aug 15 2015 12"      8mm Ds      VF,VS,OVAL,UB,NND,R=F  
 Aug 31 2010 12"      7mm TV      CF,PS,OVAL,NND,R=F. PA=90

**NGC 6217**                      **H280-1**                      **Galaxy (R)SB(rs)bc**                      **B,CL,LE,SLBM**  
 Sep 02 2016 12"      8mm Et      PF,PS,OVAL,FNUC,R=F. SQM-20.08  
 Mar 18 2007 8"      11mmT6      VF,VS,R,NND,AV,R=F

**NGC 6251**                      **H974-3**                      **Galaxy E**                      **CF,S,BM,P OF 2**  
 Sep 02 2016 12"      8mm Et      VF,VS,R,NND,R=F

**NGC 6324**                      **H945-3**                      **Galaxy S?**                      **VF,S,E,S\*S**  
 Sep 02 2016 12"      8mm Et      VF,VS,OVAL,NND,R=F

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<b>ABELL 36</b>		<b>Planetary Neb</b>
Jul 13 2013 18"	11mmT6	VF,VS,R=F. NO CENTRAL STAR NOTED. USED OIII FILTER.
<b>IC 1042</b>		<b>Galaxy S0?</b>
May 23 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F
<b>IC 3011</b>		<b>Non-Existent</b>
Mar 08 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F
<b>IC 3074</b>		<b>Galaxy SB(s)dm: sp</b>
May 30 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=160
<b>IC 3259</b>		<b>Galaxy SAB(s)dm?</b>
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,UB,NND,AV1,R=P
<b>IC 3322A</b>		<b>Galaxy SB(s)cd: sp</b>
May 25 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=F,PA=160
<b>IC 3414</b>		<b>Galaxy SABdm?</b>
May 25 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND,AV1,R=P
<b>IC 3446</b>		<b>Galaxy S?</b>
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F
May 14 2007 31"	17mmT4	PB,PS,EON,FNUC,MSB,R=G
<b>IC 3470</b>		<b>Galaxy E?</b>
May 14 2007 31"	17mmT4	PB,PS,R,UB,NND,R=G
<b>IC 3481</b>		<b>Galaxy SAB0-: pec</b>
May 18 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F
<b>IC 3481A</b>		<b>Galaxy E pec:</b>
May 18 2007 31"	17mmT4	CF,VS,R,NND,AV,R=F
<b>IC 3483</b>		<b>Galaxy SAB(s)b pec:</b>
May 18 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F
<b>IC 3499</b>		<b>Galaxy S0/a</b>
May 14 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F
<b>IC 3510</b>		<b>Galaxy S?</b>
May 14 2007 31"	17mmT4	CF,CS,OVAL,NND,AV,R=F
<b>IC 3583</b>		<b>Galaxy IBm</b>
Jun 03 2019 12"	8mm Et	PF,VS,OVAL,FNUC,R=G
May 18 2007 31"	17mmT4	PF,PL,EL,OVAL,NND,R=F

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<b>MAC 1141+1016</b>			<b>Galaxy</b>	
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>MAC 1231+0036</b>			<b>Galaxy</b>	
May 14 2007 31"	17mmT4	CF,VS,OVAL,NND,R=F		
<b>MAC 1231+0353</b>			<b>Galaxy</b>	
May 14 2007 31"	17mmT4	VF,CS,EON,NND,AV,R=P		
<b>MAC 1234-0727</b>			<b>Galaxy</b>	
May 14 2007 31"	17mmT4	VF,CS,R,NND,AV,R=F		
<b>MAC 1234-0732</b>			<b>Galaxy</b>	
May 14 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F		
<b>MAC 1252+1001</b>			<b>Galaxy</b>	
May 18 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
<b>MAC 1253+0956</b>			<b>Galaxy</b>	
May 18 2007 31"	17mmT4	EF,VS,R,NND,AV,R=F		
<b>NGC 3776</b>			<b>Galaxy Sb</b>	<b>EF,VS</b>
May 10 2005 31"	11mmT6	VF,S,OVAL,NND,R=F		
<b>NGC 3818</b>		<b>H284-3</b>	<b>Galaxy E5</b>	<b>F,PS,R,PSBM</b>
Apr 02 2008 8"	11mmT6	B,S,OVAL,FNUC,R=F		
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F		
<b>NGC 3822</b>		<b>H153-2</b>	<b>Galaxy S0?</b>	<b>PF,PS,3RD OF 4</b>
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		
<b>NGC 3825</b>		<b>H154-2</b>	<b>Galaxy SBa</b>	<b>PF,PS,4TH OF 4</b>
May 18 2007 31"	17mmT4	PF,CS,OVAL,NND,R=F		
<b>NGC 3833</b>		<b>H102-3</b>	<b>Galaxy Sc</b>	<b>EF,PS</b>
May 18 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
<b>NGC 3848</b>		<b>H35-3</b>	<b>Galaxy Sc</b>	<b>EF,VS</b>
May 18 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G		
<b>NGC 3863</b>			<b>Galaxy Sbc</b>	<b>VF,ME70,GLBM,2'LONG</b>
Jun 24 2020 12"	8mm Et	VFR,VS,EON,UB,NND,AV,R=P		
<b>NGC 3952</b>		<b>H612-3</b>	<b>Galaxy IBm: sp</b>	<b>CF,CS,LE90,BM,R</b>
Mar 08 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 3976</b>		<b>H132-2</b>	<b>Galaxy SAB(s)b</b>	<b>B,PL,CE30,VSMBMN</b>

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<b>NGC 3976</b>		<b>H132-2</b>	<b>Galaxy SAB(s)b</b>	<b>B,PL,CE30,VSMBMN</b>
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F		
<b>NGC 4030</b>		<b>H121-1</b>	<b>Galaxy SA(s)bc</b>	<b>CB,L,VLE,PSMBM,BSTNR</b>
Jun 03 2019 12"	8mm Et	PF,S,R,UB,NND,R=F		
Apr 04 2005 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
<b>NGC 4045</b>		<b>H276-2</b>	<b>Galaxy SBa</b>	<b>PF,L,R,SBM,*SF</b>
Jun 24 2020 12"	8mm Et	VF,PS,OVAL,PEXT,NND,R=P		
May 30 2016 12"	8mm Ds	VF,VS,OVAL,MEXT,UB,NND,AV2R=F		
Mar 08 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 4067</b>		<b>H37-3</b>	<b>Galaxy SA(s)b:</b>	<b>F,PS,R,GBM</b>
Mar 08 2010 12"	11mmT6	VF,CS,OVAL,UB,NND,AV,R=F		
<b>NGC 4073</b>		<b>H277-2</b>	<b>Galaxy E+</b>	<b>F,PS,R,PGBM,NP OF 2</b>
Jun 24 2020 12"	8mm Et	VF,PS,OVAL,PEXT,NND,R=P		
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 4079</b>			<b>Galaxy (R')SAB(rs)bc:</b>	<b>F,L,R,*10N1'</b>
Mar 08 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 4116</b>			<b>Galaxy SB(rs)dm</b>	<b>VF,E,SPOF2,HOOKSHAPE</b>
Apr 29 2011 12"	7mm TV	DIFF,CF,PS,OVAL,AV,R=F,PA=120		
Apr 02 2008 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 4119</b>		<b>H14-2</b>	<b>Galaxy</b>	<b>LE</b>
Jun 24 2020 12"	8mm Et	PF,PS,OVAL,MEXT,UB,NND,R=P		
<b>NGC 4123</b>		<b>H4-5</b>	<b>Galaxy SB(r)c</b>	<b>CF,VL,E90,BMN</b>
Apr 02 2008 8"	11mmT6	VF,L,OVAL,NND,AV,R=F		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
<b>NGC 4124</b>		<b>H33-1</b>	<b>Galaxy SA(r)0+</b>	<b>PB,PL,ME118,BM,R</b>
Apr 09 2008 8"	11mmT6	PF,PS,R,NND,LSB,R=F		
<b>NGC 4168</b>		<b>H105-2</b>	<b>Galaxy E2</b>	<b>PB,PL,IF,PSBM,R,*INV</b>
Apr 04 2005 8"	11mmT6	MB,OVAL,PATCH,NND,R=G		
<b>NGC 4178</b>			<b>Galaxy SB(rs)dm</b>	<b>VF,VL,E45,*7F</b>
Apr 04 2005 8"	11mmT6	VF,EL,OVAL,AV,R=F		
<b>NGC 4179</b>		<b>H9-1</b>	<b>Galaxy S0 sp</b>	<b>PB,PS,PME135,BMN</b>
Apr 04 2005 8"	11mmT6	MB,EON,OVAL,FNUC,MSB,R=G		
<b>NGC 4197</b>		<b>H134-2</b>	<b>Galaxy Sd</b>	<b>PF,PME,VGBM</b>

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<b>NGC 4197</b>		<b>H134-2</b>	<b>Galaxy Sd</b>	<b>PF,PME,VGBM</b>
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=30		
<b>NGC 4206</b>		<b>H165-2</b>	<b>Galaxy SA(s)bc:</b>	<b>F,VME</b>
Apr 16 2009 16"	17mmT4	VF,PS,EON,NND,VLOWSB,R=F		
Apr 04 2005 8"	11mmT6	VF,EON,NND,AV,R=F		
<b>NGC 4207</b>			<b>Galaxy S?</b>	<b>PF,PS,LE,*14NP</b>
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4215</b>		<b>H135-2</b>	<b>Galaxy SA(r)0+: sp</b>	<b>B,PS,E,SBM*11</b>
Mar 08 2010 12"	11mmT6	CF,CS,EON,UB,NND,R=F		
<b>NGC 4216</b>		<b>H35-1</b>	<b>Galaxy SAB(s)b:</b>	<b>VB,VL,VME17,SBMN</b>
Apr 16 2009 16"	17mmT4	PB,PL,EON,BNUC,HSB,R=G		
Apr 04 2005 8"	11mmT6	VB,EON,FNUC,MSB,R=G		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
<b>NGC 4224</b>		<b>H136-2</b>	<b>Galaxy SA(s)a: sp</b>	<b>PB,PS,LE,GBM,R</b>
Apr 09 2008 8"	11mmT6	PF,PS,EON,NND,LSB,R=F		
<b>NGC 4233</b>		<b>H496-2</b>	<b>Galaxy S0^</b>	<b>PF,R,VSBMSN</b>
Apr 09 2008 8"	11mmT6	PF,CS,OVAL,FNUC,LSB,R=F		
<b>NGC 4235</b>		<b>H17-2</b>	<b>Galaxy SA(s)a sp</b>	<b>PB,PL,PME,BM,P OF 2</b>
Apr 29 2011 12"	5mm TV	PF,PS,EON,FNUC,R=G,PA=45		
Apr 09 2008 8"	11mmT6	PF,PS,EON,UB,FNUC,R=G		
<b>NGC 4240</b>			<b>Galaxy E</b>	<b>PB,S,*12SP1/2'</b>
Mar 08 2010 12"	11mmT6	VF,CS,OVAL,UB,NND,R=F		
<b>NGC 4241</b>		<b>H480-3</b>	<b>Galaxy SA(s)0+:</b>	<b>VF,L,VGBM,*7S</b>
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,LSB,AV,R=F		
<b>NGC 4255</b>			<b>Galaxy SB(r)0^</b>	<b>S,PMBM</b>
May 18 2014 18"	8mm Ds	VF,PS,OVAL,MEXT,UB,NND,AV1,R=F		
<b>NGC 4260</b>		<b>H138-2</b>	<b>Galaxy SB(s)a</b>	<b>PB,E,PSBM</b>
Apr 14 2016 12"	11mmT6	DIFF,PS,,S,R,UB,NND,R=F		
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4261</b>		<b>H139-2</b>	<b>Galaxy E2-3</b>	<b>PB,PS,R,GBM</b>
Apr 14 2016 12"	11mmT6	PF,PS,R,FNUC,R=F		
Apr 26 2006 8"	11mmT6	B,L,OVAL,FNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4264</b>		<b>H140-2</b>	<b>Galaxy SB(rs)0+</b>	<b>F,PS,R,GBM</b>

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<b>NGC 4264</b>		<b>H140-2</b>	<b>Galaxy SB(rs)0+</b>	<b>F,PS,R,GBM</b>
Apr 09 2008 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 4267</b>		<b>H166-2</b>	<b>Galaxy SB(s)0-?</b>	<b>PB,VS,R,VSMBM</b>
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4268</b>			<b>Galaxy SB0/a: sp</b>	<b>PF,S,2ND OF 6 NEB</b>
Apr 04 2005 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
<b>NGC 4270</b>		<b>H568-2</b>	<b>Galaxy S0</b>	<b>PB,S,R</b>
May 14 2017 12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F		
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,UB,NND,R=G		
Apr 09 2008 8"	11mmT6	PF,PS,EON,FNUC,MSB,R=G		
<b>NGC 4273</b>		<b>H569-2</b>	<b>Galaxy SB(s)c</b>	<b>PB,L,E,GBM</b>
May 14 2017 12"	11mmT6	PF,PS,OVAL,FNUC,R=G		
Apr 04 2005 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
<b>NGC 4281</b>		<b>H573-2</b>	<b>Galaxy S0+: sp</b>	<b>B,VL,R,PGBM</b>
May 14 2017 12"	11mmT6	PF,PS,OVAL,FNUC,R=G		
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=F		
Apr 04 2005 8"	11mmT6	MB,EL,OVAL,NND,MSB,R=F		
<b>NGC 4285</b>			<b>Galaxy Sa</b>	<b>EF,PS,R</b>
Apr 29 2006 31"	19mmW	VF,S,OVAL,NND,AV,R=F		
<b>NGC 4294</b>		<b>H61-2</b>	<b>Galaxy SB(s)cd</b>	<b>F,L,ME135,BIN,P OF 2</b>
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,AV,R=F		
<b>NGC 4299</b>		<b>H62-2</b>	<b>Galaxy SAB(s)dm:</b>	<b>F,L,LE,VGBM,F OF 2</b>
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 4300</b>		<b>H572-2</b>	<b>Galaxy Sa</b>	<b>F,LE,VGBM</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
<b>NGC 4303</b>	<b>M61</b>	<b>H139-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VSBM*,BIN</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 4305</b>			<b>Galaxy SA(r)a</b>	<b>VF,R</b>

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<b>NGC 4305</b>		<b>Galaxy SA(r)a</b>	<b>VF,R</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4306	
<b>NGC 4306</b>		<b>Galaxy SB(s)0^:</b>	<b>VF,PL,R,4305SP</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F,PAIRED W/.NGC-4305	
<b>NGC 4307</b>		<b>Galaxy Sb sp</b>	<b>PF,L,ME,3KNOTS</b>
May 18 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=24	
<b>NGC 4309</b>		<b>Galaxy SAB(r)0+</b>	<b>F,S,*11F12S</b>
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F	
<b>NGC 4313</b>		<b>H63-2 Galaxy SA(rs)ab: sp</b>	<b>VF,L,E135,R</b>
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F	
<b>NGC 4324</b>		<b>Galaxy SA(r)0+</b>	<b>PB,RORLE,BM</b>
May 10 2005 8"	11mmT6	VF,VS,EL,OVAL,NND,R=F	
<b>NGC 4326</b>		<b>H141-2 Galaxy SAB(r)ab:</b>	<b>VF,S,R,BM,1ST OF 3</b>
May 10 2005 8"	11mmT6	MF,VS,R,NND,R=F	
<b>NGC 4330</b>		<b>Galaxy Scd?</b>	<b>VF,L,ME</b>
May 10 2005 8"	11mmT6	VF,VS,EON,NND,AV,R=F	
<b>NGC 4339</b>		<b>H143-2 Galaxy E0</b>	<b>B,PL,R,BM,3RD OF 3</b>
Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,MSB,R=G	
<b>NGC 4341</b>		<b>H95-3 Galaxy SAB(s)0^ sp</b>	<b>EF,VS,R</b>
Mar 30 2014 18"	7mm TV	PF,PS,EON,UB,NND,R=F	
<b>NGC 4342</b>		<b>H96-3 Galaxy S0- sp</b>	<b>EF,VS,R</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,BNUC,R=F	
<b>NGC 4343</b>		<b>H94-3 Galaxy SA(rs)b:</b>	<b>PF,S,E,(D)</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
Apr 09 2008 8"	11mmT6	PF,PS,EON,UB,NND,R=F	
<b>NGC 4348</b>		<b>H625-2 Galaxy SAbc: sp</b>	<b>F,PL,E70,VLBM</b>
Mar 30 2014 18"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=40	
<b>NGC 4351</b>		<b>Galaxy SBab/</b>	<b>F,PL,IR,BM</b>
Mar 30 2014 18"	7mm TV	DIFF,PF,PS,OVAL,UB,NND,R=F	
<b>NGC 4352</b>		<b>H64-2 Galaxy SA0: sp</b>	<b>CF,CS,LE</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,PEXT,FNUC,R=G	
<b>NGC 4356</b>		<b>H481-3 Galaxy Scd:</b>	<b>VF</b>

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<b>NGC 4356</b>		<b>H481-3</b>	<b>Galaxy Scd:</b>	<b>VF</b>
May 25 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F, MAG 13 STAR ON SOUTH EDGE.		
<b>NGC 4365</b>		<b>H30-1</b>	<b>Galaxy E3</b>	<b>CB,PL,VLE,GL,SMBM</b>
Apr 26 2006 8"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4370</b>		<b>H144-2</b>	<b>Galaxy Sa sp</b>	<b>PF,PS,LE,BM</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4371</b>		<b>H22-1</b>	<b>Galaxy SB(r)0+</b>	<b>B,PS,R,GBM</b>
Apr 26 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4374</b>	<b>M84</b>		<b>Galaxy E1</b>	<b>VB,PL,R,PSBM,R</b>
Jun 03 2019 12"	8mm Et			
May 31 2019 12"	11mmT6			
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 4378</b>		<b>H123-1</b>	<b>Galaxy (R)SA(s)a</b>	<b>B,S,*8,9SF3'</b>
Apr 09 2010 12"	11mmT6	PF,PS,R,FNUC,R=F		
<b>NGC 4380</b>			<b>Galaxy SA(rs)b:?</b>	<b>VF,PL,R,LBM</b>
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4385</b>			<b>Galaxy SB(rs)0+:</b>	<b>VF,VS,ALM STELL</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 4387</b>		<b>H167-2</b>	<b>Galaxy E</b>	<b>PF,VS,R,*13NP90,NP-2</b>
May 14 2017 12"	11mmT6	F,PS,OVAL,FNUC,R=E		
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 4388</b>		<b>H168-2</b>	<b>Galaxy SA(s)b: sp</b>	<b>VF,E,SF OF2</b>
Jun 03 2019 12"	8mm Et	PB,PS,PEXT,UB,NND,R=F		
May 14 2017 12"	11mmT6	F,PS,EON,BNUC,R=E		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4402</b>			<b>Galaxy Sb sp</b>	<b>F,L,ME90</b>
Jun 03 2019 12"	8mm Et	VF,PS,OVAL,UB,NND,R=F		
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		



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<b>NGC 4403</b>		<b>H755-3</b>	<b>Galaxy SA(r)ab pec sp</b>	<b>VF,VS,E</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F,PAIRED W/NGC-4404		
<b>NGC 4404</b>		<b>H756-3</b>	<b>Galaxy SA(r)0- pec:</b>	<b>VF,VS,E</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-4403		
<b>NGC 4406</b>	<b>M86</b>		<b>Galaxy E3</b>	<b>VB,L,R,GBMN,R</b>
Jun 03 2019 12"	8mm Et			
Apr 20 2018 12"	11mmT6			
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 4410A</b>			<b>Non-Existent</b>	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410B		
<b>NGC 4410B</b>			<b>Non-Existent</b>	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410A		
<b>NGC 4411A</b>			<b>Galaxy SBdm</b>	
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F		
<b>NGC 4411B</b>			<b>Non-Existent</b>	
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4413</b>		<b>H169-2</b>	<b>Non-Existent</b>	<b>CF,S,GBM,2ST N,NP</b>
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,ND,R=F		
Apr 09 2010 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 4417</b>		<b>H155-2</b>	<b>Galaxy SB0: sp</b>	<b>F,PL,E,LBP</b>
Apr 05 2005 8"	7.5mmW	VF,ML,EL,EON,NND,AV,R=F		
<b>NGC 4420</b>		<b>H23-2</b>	<b>Non-Existent</b>	<b>F,PL,LE,R,(=4409)</b>
Mar 30 2014 18"	7mm TV	PF,PS,OBVAL,MEXT,UB,NND,R=F		
Apr 05 2005 8"	7.5mmW	VF,VS,EL,NND,AV,R=F		
<b>NGC 4424</b>			<b>Galaxy SB(s)a:</b>	<b>F,PL,IR,BM</b>
Apr 05 2005 8"	7.5mmW	MFN,ML,EL,OVAL,NND,MSB,R=G		
<b>NGC 4425</b>		<b>H170-2</b>	<b>Galaxy SB0+: sp</b>	<b>PF,S,R,BM</b>
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G		

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<b>NGC 4429</b>		<b>H65-2</b>	<b>Galaxy SA(r)0+</b>	<b>B,L,CE,PSBM,*10NF</b>
Apr 26 2006 8"	11mmT6	F,PS,EL,OVAL,UB,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4430</b>		<b>H146-2</b>	<b>Galaxy SB(rs)b:</b>	<b>CF,L,R,GBM</b>
Jun 19 2020 12"	8mm Et	PF,PS,UB,NND,R=F		
<b>NGC 4434</b>		<b>H497-2</b>	<b>Galaxy E</b>	<b>PF,VS</b>
Jun 19 2020 12"	8mm Et	PF,PS,R4,UB,NND,R=F		
<b>NGC 4435</b>		<b>H28-1</b>	<b>Galaxy SB(s)0^</b>	<b>VB,CL,R,NP OF 2</b>
Jun 03 2019 12"	8mm Et	PF,PS,MEXT,NND,R=F		
Apr 20 2018 12"	11mmT6			
May 14 2017 12"	11mmT6	F,PS,R,FNUC,R=E		
Apr 26 2006 8"	11mmT6	B,S,R,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 4437</b>		<b>H5-4</b>	<b>Galaxy SA(s)cd: sp</b>	<b>F,EE75,*10NF</b>
May 19 2010 12"	7.5mmW	DIFF,CF,PS,EON,NND,AV,R=F		
<b>NGC 4438</b>		<b>H28-1</b>	<b>Galaxy SA(s)0/a pec:</b>	<b>B,CL,VLE,R,SF OF 2</b>
Jun 03 2019 12"	8mm Et	PF,PS,PEXT,NND,R=F		
Apr 20 2018 12"	11mmT6			
May 14 2017 12"	11mmT6	F,PS,EON,FNUC,R=E		
Apr 26 2006 8"	11mmT6	F,PL,EL,OVAL,NND,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 4440</b>		<b>H173-2</b>	<b>Galaxy SB(rs)a</b>	<b>B,PS,R,BM,R</b>
Jun 19 2020 12"	8mm Et	F,PS,R,FNUC,R=G		
<b>NGC 4442</b>		<b>H156-2</b>	<b>Galaxy SB(s)0^</b>	<b>VB,PL,R,SMBM</b>
Apr 26 2006 8"	11mmT6	PB,CS,EON,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4443</b>			<b>Non-Existent</b>	<b>F,S,</b>
Jun 03 2019 12"	8mm Et	PF,VS,OVAL,UB,NND,R=F		
Apr 05 2005 8"	7.5mmW	MFB,ML,EL,OVAL,FNUC,MSB,R=G		
<b>NGC 4451</b>			<b>Galaxy Sbc:</b>	<b>PB,PS,R,BM,*13S</b>
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,AV1,R=F		
<b>NGC 4452</b>		<b>H23-1</b>	<b>Galaxy S0?</b>	<b>PB,S,VME</b>
Jun 19 2020 12"	8mm Et	F,S,EON,UB,NND,R=G		
<b>NGC 4454</b>		<b>H180-2</b>	<b>Galaxy (R)SB(r)0/a</b>	<b>F,L,R,GBM,ER</b>

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<b>NGC 4454</b>		<b>H180-2</b>	<b>Galaxy (R)SB(r)0/a</b>	<b>F,L,R,GBM,ER</b>
May 25 2014 18"	8mm Ds	PF,PS,OVAL,NND,R=F		
<b>NGC 4457</b>		<b>H35-2</b>	<b>Galaxy (R)SAB(s)0/a</b>	<b>CB,PS,R,SMBMN</b>
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4458</b>		<b>H121-2</b>	<b>Galaxy E0-1</b>	<b>PB,S,R,BM,P OF 2</b>
Jun 03 2019 12"	8mm Et	PF,PS,R,UB,NND,R=F		
Apr 09 2010 12"	11mmT6	PB,PS,R,NND,R=G		
<b>NGC 4461</b>		<b>H122-2</b>	<b>Galaxy SB(s)0+:</b>	<b>PF,S,R,BM,F OF 2</b>
Apr 09 2010 12"	11mmT6	PB,PS,OVAL,PEXT,BNUC,HSB,R=G		
<b>NGC 4464</b>		<b>H483-3</b>	<b>Galaxy S?</b>	<b>F,VS,R,PGBM</b>
May 14 2007 31"	17mmT4	PB,PS,R,FNUC,MSB,R=G		
<b>NGC 4465</b>			<b>Galaxy Sc</b>	<b>VF,VDIF</b>
May 14 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 4467</b>			<b>Galaxy E2</b>	<b>VF,VS,LE</b>
May 14 2007 31"	17mmT4	PF,CS,R,UB,NND,R=F		
<b>NGC 4469</b>		<b>H157-2</b>	<b>Galaxy SB(s)0/a? sp</b>	<b>PF,PL,ME,BM,R</b>
Apr 05 2005 8"	7.5mmW	MF,ML,EL,EON,NND,R=G		
<b>NGC 4470</b>		<b>H18-2</b>	<b>Galaxy Sa?</b>	<b>F,PL,IR,BM</b>
May 25 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=G		
<b>NGC 4472</b>	<b>M49</b>		<b>Galaxy E2</b>	<b>VB,L,R,MBM,R</b>
Jun 03 2019 12"	8mm Et	B,S,R,FNUC,R=G		
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 4476</b>		<b>H123-2</b>	<b>Galaxy SA(r)0-:</b>	<b>F,S,R,BM,1ST OF 3</b>
Jun 03 2019 12"	8mm Et	PF,VS,OVAL,NND,R=F		
May 25 2014 18"	8mm Ds	PF,VS,OVAL,FNUC,R=G		
<b>NGC 4478</b>		<b>H124-2</b>	<b>Galaxy E2</b>	<b>PB,S,R,PSBM,2ND OF 3</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		

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<b>NGC 4478</b>		<b>H124-2</b>	<b>Galaxy E2</b>	<b>PB,S,R,PSBM,2ND OF 3</b>
Apr 05 2005 8"	7.5mmW	MB,MS,R,FNUC,MSB,R=G		
<b>NGC 4482</b>		<b>H40-3</b>	<b>Galaxy E</b>	<b>EF,PL</b>
May 25 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4484</b>			<b>Galaxy SA(s)c pec:</b>	<b>PF,S,R,GBM</b>
May 25 2014 18"	8mm Ds	VF,PS,R,UB,NND,AV,R=P		
<b>NGC 4486</b>	<b>M87</b>		<b>Galaxy E+0-1 pec</b>	<b>VB,VL,R,MBM,3RD OF 3</b>
Jun 03 2019 12"	8mm Et			
Jun 03 2019 12"	8mm Et	B,S,R,BNUC,R=G		
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 4486A</b>			<b>Galaxy E2</b>	
May 18 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND,R=F		
<b>NGC 4486B</b>			<b>Galaxy cE0</b>	
May 18 2014 18"	8mm Ds	VF,VSM,R,UB,NND,R=F		
<b>NGC 4487</b>		<b>H776-2</b>	<b>Galaxy SAB(rs)cd</b>	<b>F,VL,ER</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
<b>NGC 4488</b>		<b>H484-3</b>	<b>Galaxy SB(s)0/a pec:</b>	<b>VF,VS,LE</b>
May 14 2007 31"	17mmT4	PB,PS,OVAL,UB,FNUC,MSB,R=G		
<b>NGC 4491</b>		<b>H41-3</b>	<b>Galaxy SB(s)a:</b>	<b>F,L,R</b>
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4492</b>		<b>H499-2</b>	<b>Galaxy SA(s)a?</b>	<b>PF,PL,VGLBM,2*NR</b>
May 14 2007 31"	17mmT4	PB,PS,R,FNUC,MSB,R=G		
<b>NGC 4493</b>			<b>Galaxy E+ pec:</b>	<b>VF,VS,IR</b>
May 14 2007 31"	17mmT4	PF,CL,OVAL,NND,R=F		
<b>NGC 4496A</b>			<b>Galaxy SB(rs)m</b>	<b>F,CL,BIN OR DNEB</b>
May 14 2007 31"	17mmT4	PF,PS,R,NND,R=F		
<b>NGC 4496B</b>			<b>Galaxy IB(s)m:</b>	

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<b>NGC 4496B</b>		<b>Galaxy IB(s)m:</b>	
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
<b>NGC 4497</b>		<b>H42-3</b>	<b>Galaxy SAB(s)0+:</b>
May 14 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G	<b>VF</b>
<b>NGC 4503</b>		<b>H66-2</b>	<b>Galaxy SB0-:</b>
May 14 2007 31"	17mmT4	PB,PL,EL,OVAL,BNUC,HISB,R=G	<b>PB,S,R,GBM</b>
<b>NGC 4504</b>		<b>H771-2</b>	<b>Galaxy SA(s)cd</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	<b>PB,CL,IE,GVLBM,ER</b>
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 4518</b>		<b>Galaxy SB0_2/3_(r)/a</b>	<b>F,S,R,BM</b>
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 4519</b>		<b>H158-2</b>	<b>Galaxy SB(rs)d</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	<b>F,PL,R,BM,R</b>
<b>NGC 4519A</b>		<b>Galaxy dS0?</b>	
May 14 2007 31"	17mmT4	CF,CS,OVAL,NND,R=F	
<b>NGC 4520</b>		<b>H757-3</b>	<b>Galaxy SA0- pec sp</b>
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,FNUC,R=F	<b>VF,S,2VS*INV</b>
<b>NGC 4522</b>		<b>Galaxy SB(s)cd: sp</b>	<b>EF,PL,LE,VLBM</b>
May 14 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F	
<b>NGC 4526</b>		<b>H31-1</b>	<b>Galaxy SAB(s)0^:</b>
May 14 2007 31"	17mmT4	VB,CL,EON,BNUC,HISB,R=G	<b>VB,VL,ME120,PSMBM</b>
Apr 26 2006 8"	11mmT6	VB,CS,EON,BNUC,R=G	
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
<b>NGC 4527</b>		<b>H37-2</b>	<b>Galaxy SAB(s)bc</b>
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G	<b>PB,L,PME69,MBM</b>
<b>NGC 4528</b>		<b>H67-2</b>	<b>Galaxy S0^:</b>
May 14 2007 31"	17mmT4	PF,PS,OVAL,BNUC,HISB,R=G	<b>PF,CS,R,BM,*9F30S</b>
<b>NGC 4531</b>		<b>H175-2</b>	<b>Galaxy SB0+:</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	<b>F,PL,R,VGBM</b>
<b>NGC 4532</b>		<b>H147-2</b>	<b>Galaxy IBm</b>
May 14 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G	<b>PB,PL,PME,VGBM,R</b>
<b>NGC 4535</b>		<b>H500-2</b>	<b>Galaxy SAB(s)c</b>
Apr 26 2006 8"	11mmT6	F,VL,OVAL,NND,R=F	<b>PF,VL,R</b>

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<b>NGC 4535</b>		<b>H500-2</b>	<b>Galaxy SAB(s)c</b>	<b>PF,VL,R</b>
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4536</b>		<b>H2-5</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,VL,ME110,SBM,ER</b>
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G		
<b>NGC 4546</b>		<b>H160-1</b>	<b>Galaxy SB(s)0-:</b>	<b>VB,CL,PME78,VSMBMN</b>
Apr 26 2006 8"	11mmT6	F,L,OVAL,NND,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
<b>NGC 4550</b>		<b>H36-1</b>	<b>Galaxy SB0^: sp</b>	<b>PB,S,VLE,SP OF 2</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,PEXT,UB,NND,R=F		
Apr 13 2005 8"	11mmT6	MF,MS,EL,NND,R=G		
<b>NGC 4551</b>		<b>H37-1</b>	<b>Galaxy E:</b>	<b>PB,S,R,BM,NF OF 2</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Apr 13 2005 8"	11mmT6	VF,MS,OVAL,NND,AV,R=F		
<b>NGC 4552</b>	<b>M89</b>		<b>Galaxy E0-1</b>	<b>PB,PS,R,GMBM</b>
Jun 03 2019 12"	8mm Et	B,S,R,FNUC,R=G		
Apr 20 2018 12"	11mmT6			
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 4567</b>		<b>H8-4</b>	<b>Galaxy SA(rs)bc</b>	<b>VF,L,NP OF D NEB</b>
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 4568</b>		<b>H9-4</b>	<b>Galaxy SA(rs)bc</b>	<b>VF,L,SF OF D NEB</b>
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 4569</b>	<b>M90</b>		<b>Galaxy SAB(rs)ab</b>	<b>PL,BMN</b>
Jun 03 2019 12"	8mm Et	PF,PS,OVAL,MEXT,BNUC,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		
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		
<b>NGC 4570</b>		<b>H32-1</b>	<b>Galaxy S0 sp</b>	<b>CB,PS,ME0,SBMRN</b>

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<b>NGC 4570</b>		<b>H32-1</b>	<b>Galaxy S0 sp</b>	<b>CB,PS,ME0,SBMRN</b>
Apr 28 2006 31"	19mmW	VB,CL,EON,,BNUC,PHISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4578</b>		<b>H15-2</b>	<b>Galaxy SA(r)0^:</b>	<b>PF,PS,R,SBMN,*NP</b>
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,R=G		
<b>NGC 4579</b>	<b>M58</b>		<b>Galaxy SAB(rs)b</b>	<b>B,L,IR,VMBM,R</b>
Jun 03 2019 12"	8mm Et	PF,S,R,BNUC,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"	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		
<b>NGC 4580</b>		<b>H124-1</b>	<b>Galaxy SAB(rs)a pec</b>	<b>PB,L,VGBM</b>
Apr 08 2005 8"	11mmT6	MB,ML,R,NND,R=G		
<b>NGC 4581</b>			<b>Galaxy E+</b>	<b>F,S,BM,STELL N</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 4584</b>			<b>Galaxy SAB(s)a?</b>	<b>VF,S,R</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 4586</b>		<b>H125-1</b>	<b>Galaxy SA(s)a: sp</b>	<b>PB,L,E,PSBM</b>
Apr 08 2005 8"	11mmT6	MF,ML,EL,NND,R=G		
<b>NGC 4592</b>		<b>H31-2</b>	<b>Galaxy SA(s)dm:</b>	<b>F,L,E90,VGBM</b>
Apr 26 2009 16"	17mmT4	CF,PS,EON,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	MF,ML,EL,EON,NND,AV,R=F		
<b>NGC 4593</b>		<b>H183-2</b>	<b>Galaxy (R)SB(rs)b</b>	<b>PB,CL,E,SBMN=*</b>
Apr 14 2016 12"	11mmT6	PF,S,OVAL,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,R=F		
<b>NGC 4594</b>	<b>M104</b>	<b>H43-1</b>	<b>Galaxy SA(s)a sp</b>	<b>VB,VL,EE92,VSMBMN</b>
May 31 2019 12"	11mmT6	NICE		
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		

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<b>NGC 4594</b>	<b>M104</b>	<b>H43-1</b>	<b>Galaxy SA(s)a sp</b>	<b>VB,VL,EE92,VSMBMN</b>
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 4596</b>		<b>H24-1</b>	<b>Galaxy SB(r)0+</b>	<b>B,PS,R,GMBM,R,3*F</b>
Apr 08 2005 8"	11mmT6	MB,ML,OVALFNUC,R=G		
<b>NGC 4597</b>		<b>H636-2</b>	<b>Galaxy SB(rs)m</b>	<b>F,VL,BM</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 4598</b>		<b>H105-3</b>	<b>Galaxy SB0</b>	<b>EF,L,R,VLBM</b>
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 4599</b>		<b>H509-3</b>	<b>Galaxy SA0/a sp</b>	<b>VF,VS</b>
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 4600</b>		<b>H577-2</b>	<b>Galaxy S0</b>	<b>F,S,R,2*8F</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4602</b>		<b>H184-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>F,L,E,VGLBM</b>
Apr 08 2005 8"	11mmT6	MF,MS,EON,NND,R=F		
<b>NGC 4604</b>			<b>Galaxy Im: sp</b>	<b>NO DESCRIPTION</b>
May 18 2014 18"	8mm Ds	VF,VS,OVAL,PEXT,UB,NND,AV,R=F		
<b>NGC 4606</b>		<b>H43-3</b>	<b>Galaxy SB(s)a:</b>	<b>VF,PS,E,20R3VS*INV</b>
Apr 08 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
<b>NGC 4607</b>			<b>Galaxy SBb? sp</b>	<b>F,ME,30R4'F4606</b>
May 18 2014 18"	8mm Ds	PF,S,EON,UB,NND,R=F,PA=179		
<b>NGC 4608</b>		<b>H69-2</b>	<b>Galaxy SB(r)0^</b>	<b>PB,PL,R,PSBM,R,*NP1'</b>
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,FNUC,R=G		
<b>NGC 4612</b>		<b>H148-2</b>	<b>Galaxy (R)SAB0^</b>	<b>PB,S,R,PSMBM</b>
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,RNUC,R=G		
<b>NGC 4621</b>	<b>M59</b>		<b>Galaxy E5</b>	<b>B,PL,LE,VSMBM,2*P</b>
Jun 03 2019 12"	8mm Et	PF,S,R,UB,NND,R=F		
Apr 20 2018 12"	11mmT6			



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<b>NGC 4621</b>	<b>M59</b>	<b>Galaxy E5</b>	<b>B,PL,LE,VSVMBM,2*P</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 4623</b>	<b>H149-2</b>	<b>Galaxy SB0+: sp</b>	<b>CF,PL,E,PSLBM,R</b>
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,AV,R=F	
<b>NGC 4624</b>		<b>Galaxy E0-1</b>	<b>B,E</b>
May 18 2014 18"	8mm Ds	F,S,OVAL,BNUC,R=G	
<b>NGC 4630</b>	<b>H532-2</b>	<b>Galaxy IB(s)m?</b>	<b>CF,S,R,LBM</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
<b>NGC 4632</b>	<b>H14-1</b>	<b>Galaxy SAc</b>	<b>PB,L,E45</b>
Apr 26 2009 16"	17mmT4	CF,CS,OVAL,NND,R=F	
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F	
<b>NGC 4636</b>	<b>H38-2</b>	<b>Galaxy E</b>	<b>B,L,IR,VGVMBM,R</b>
Apr 26 2009 16"	17mmT4	PB,PS,OVAL,FNUC,R=F	
Apr 28 2006 31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 4637</b>		<b>Galaxy S0?</b>	<b>DNEB W/4638,()</b>
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,FNUC,R=F	
<b>NGC 4638</b>	<b>H70-2</b>	<b>Galaxy S0- sp</b>	<b>F,R,GBM</b>
Apr 20 2018 12"	11mmT6		
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,NND,R=G	
<b>NGC 4639</b>	<b>H125-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>PB,S,E,R,*12SF1'</b>
Apr 08 2005 8"	11mmT6	MB,ML,OVAL,RNUC,R=G	
<b>NGC 4643</b>	<b>H10-1</b>	<b>Galaxy SB(rs)0/a</b>	<b>CB,PS,LE,MBM</b>
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F	
Apr 28 2006 31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 4647</b>	<b>H44-3</b>	<b>Galaxy SAB(rs)c</b>	<b>PF,PL,LE115,NPOFDNEB</b>
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,NND,R=G	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	

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<b>NGC</b>	<b>4649</b>	<b>M60</b>	<b>Galaxy E2</b>	<b>VB,PL,R,FOF DNEB</b>	
	Jun 03 2019	12"	8mm Et PF,S,R,FNUC,R=G		
	Apr 20 2018	12"	11mmT6		
	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</b>	<b>4653</b>		<b>H662-3</b>	<b>Galaxy SAB(rs)cd</b>	<b>VF,PL</b>
	Jun 19 2020	12"	8mm Et VF,S,R,UB,NND,AV,R=P		
<b>NGC</b>	<b>4654</b>		<b>H126-2</b>	<b>Galaxy SAB(rs)cd</b>	<b>F,VL,PME,(D),3*NR</b>
	Apr 08 2005	8"	11mmT6 VF,ML,NND,R=F		
	May 22 2004	8"	25mmPL DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC</b>	<b>4660</b>		<b>H71-2</b>	<b>Galaxy E:</b>	<b>VB,S,VSVMBMN</b>
	Apr 13 2005	8"	11mmT6 MF,VS,OVAL,NND,R=G		
<b>NGC</b>	<b>4664</b>		<b>H142-1</b>	<b>Galaxy SB(s)0/a</b>	<b>PB,2S*IN M,(=4665)</b>
	Apr 14 2016	12"	11mmT6 PF,PS,R,UB,NND,R=G		
	Jun 07 2010	12"	11mmT6 PF,PS,OVAL,UB,NND,R=F		
<b>NGC</b>	<b>4665</b>		<b>Non-Existent</b>		<b>B,PL,IR,MBM,*10SP</b>
	Apr 26 2009	16"	17mmT4 PF,PS,OVAL,UB,NND,R=F		
	Apr 08 2005	8"	11mmT6 VB,ML,OVAL,FNUC,R=G		
<b>NGC</b>	<b>4666</b>		<b>H15-1</b>	<b>Galaxy SABc:</b>	<b>B,VL,ME45,PSBM</b>
	Jun 19 2020	12"	8mm Et FR,S,OVAL,PEXT,UB,NND,R=F. PAIRED W/NGC-4668		
	Apr 14 2010	16"	11mmT6 PF,PS,EON,FNUC,USB,R=G		
	Apr 26 2009	16"	17mmT4 PB,PS,EON,FNUC,R=G		
	Apr 28 2006	31"	19mmW VB,VL,EON,BNUC,VHISB,R=G		
	May 22 2004	8"	25mmPL DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC</b>	<b>4667</b>		<b>Non-Existent</b>		<b>B,S,R,PSBM,( )</b>
	Apr 20 2018	12"	11mmT6		
<b>NGC</b>	<b>4668</b>		<b>H663-3</b>	<b>Galaxy SB(s)d:</b>	<b>VF,S,IF</b>
	Jun 19 2020	12"	8mm Et VF,PS,OVAL,MEXST,UB,NND,R=F. PAIRED W/NGC-4666		
<b>NGC</b>	<b>4684</b>		<b>H181-2</b>	<b>Galaxy SB(r)0+</b>	<b>B,PL,PME25</b>
	Apr 14 2010	16"	11mmT6 PF,PS,OVAL,VEXT,UB,NND,R=F		

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<b>NGC 4691</b> Apr 09 2008 8"	11mmT6	<b>H182-2</b> PF,PS,R,FNUC,MSB,R=G	<b>Galaxy (R)SB(s)0/a pec</b>	<b>PB,PL,E90,MBM</b>
<b>NGC 4697</b> Apr 28 2006 31" Apr 14 2004 8"	19mmW 25mmPL	<b>H39-1</b> CB,VL,OVAL,VBNUC,VHISB,R=G CLEAR NIGHT - MEGASTAR CONTROL	<b>Galaxy E6</b>	<b>VB,L,LE45,SMBMN</b>
<b>NGC 4698</b> Apr 13 2005 8"	11mmT6	<b>H8-1</b> MB,ML,EON,FNUC,MSB,R=G	<b>Galaxy SA(s)ab</b>	<b>CB,PL,IR,BM,R</b>
<b>NGC 4699</b> Apr 28 2006 31" Apr 16 2004 8"	19mmW 25mmPL	<b>H129-1</b> CB,CL,OVAL,BNUC,HISB,R=G CLEAR - PALM PILOT DIRECTED	<b>Galaxy SAB(rs)b</b>	<b>VB,R,VMBMRN,R</b>
<b>NGC 4700</b> May 18 2014 18"	8mm Ds	<b>H524-3</b> PF,PS,EON,FNUC,R=F,PA=48	<b>Galaxy SB(s)c? sp</b>	<b>F,L,ME40,VLBM,B*P</b>
<b>NGC 4701</b> May 18 2014 18"	8mm Ds	<b>H578-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SA(s)cd</b>	<b>F,S</b>
<b>NGC 4703</b> May 18 2014 18"	8mm Ds	<b>H514-3</b> PF,PS,EON,FNUC,R=G,PA=153	<b>Galaxy Sb sp</b>	<b>EF,CS,PME</b>
<b>NGC 4705</b> May 18 2014 18"	8mm Ds	<b>H610-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SAB(s)bc: sp</b>	<b>CF,PL,LE</b>
<b>NGC 4708</b> May 18 2014 18"	8mm Ds	<b>H722-3</b> PF,PS,OVAL,UB,NND,R=F, MEGASTAR SAYS 14.5 MAG.	<b>Galaxy SA(r)ab pec?</b>	<b>EF,S</b>
<b>NGC 4713</b> May 18 2014 18"	8mm Ds	<b>H140-1</b> PF,PS,OVAL,FNUC,R=F	<b>Galaxy SAB(rs)d</b>	<b>PB,L,VLE,GLBM</b>
<b>NGC 4716</b> May 18 2014 18"	8mm Ds	<b>H722-3</b> PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4717	<b>Galaxy S0^ pec?</b>	<b>DNEB,NPBRIGHTER\$SMBM</b>
<b>NGC 4717</b> May 18 2014 18"	8mm Ds	<b>H722-3</b> VF,PS,OVAL,MEXDT,UB,NND,R=F,PAIRED W/NGC-4716	<b>Galaxy SB(rs)a pec?</b>	<b>DNEB SF ONE FAINTER</b>
<b>NGC 4731</b> May 22 2004 8"	25mmPL	<b>H41-1</b> DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SB(s)cd</b>	<b>VF,PL,E</b>
<b>NGC 4733</b> Jun 24 2020 12"	8mm Et	<b>H73-2</b> VF,PS,R,UB,NND,R=P	<b>Galaxy E+:</b>	<b>CF,PL,LE,R,*12P</b>
<b>NGC 4739</b> May 14 2007 31"	17mmT4	<b>H515-3</b> DIFF,PF,PL,R,NND,R=F	<b>Galaxy E+ pec:</b>	<b>F,PL,LE,PGLBM</b>

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<b>NGC 4742</b>		<b>H133-1</b>	<b>Galaxy E4:</b>	<b>PB,VS,VBMN=*11,*10SF</b>
Apr 13 2005 8"	11mmT6	MF,MS,EL,FNUC,R=F		
<b>NGC 4753</b>		<b>H16-1</b>	<b>Galaxy I0</b>	<b>CB,L,VLE,VGLBM</b>
Apr 28 2006 31"	19mmW	CB,CL,OVAL,BNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4754</b>		<b>H25-1</b>	<b>Galaxy SB(r)0-:</b>	<b>B,PL,R,PSBM,P OF 2</b>
Apr 28 2006 31"	19mmW	CB,CL,OVAL,UB,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4759B</b>			<b>Non-Existent</b>	
May 18 2007 31"	17mmT4	CB,PL,R,BNUC,HISB,R=E		
<b>NGC 4760</b>			<b>Galaxy E0?</b>	<b>PB,R</b>
Apr 13 2005 8"	11mmT6	VF,ML,OVAL,NND,AV,R=F		
<b>NGC 4761</b>			<b>Galaxy E+</b>	<b>EF,ES,1'F DNEB4759</b>
May 18 2007 31"	17mmT4	CB,PL,OVAL,BNUC,HISB,R=E		
<b>NGC 4762</b>		<b>H75-2</b>	<b>Galaxy SB(r)0^? sp</b>	<b>PB,VME31,3B*S,F OF 2</b>
Apr 28 2006 31"	19mmW	CB,VL,EON,BNUC,VHISB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4764</b>			<b>Galaxy S?</b>	<b>EF,ES,SF DNEB 4759</b>
May 18 2007 31"	17mmT4	PB,PS,OVAL,NND,MSB,R=G		
<b>NGC 4771</b>		<b>H535-2</b>	<b>Galaxy SAd? sp</b>	<b>F,PL,ME,*9P90DEG</b>
Jun 24 2020 12"	8mm Et	VF,PS,R,UB,NND,R=P		
<b>NGC 4772</b>		<b>H24-2</b>	<b>Galaxy SA(s)a</b>	<b>PF,PS,R,MBM</b>
Apr 08 2005 8"	11mmT6	VB,VS,EL,NND,R=F		
<b>NGC 4775</b>		<b>H186-2</b>	<b>Galaxy SA(s)d</b>	<b>F,CL,R,VGLBM,R</b>
Apr 14 2016 12"	11mmT6	VF,PS,R,UB,NND,R=F		
<b>NGC 4778</b>			<b>Galaxy S0+ sp</b>	<b>VF,S,R,VLBM,F OFDNEB</b>
May 18 2007 31"	17mmT4	CB,PL,R,BNUC,HISB,R=E		
<b>NGC 4781</b>		<b>H134-1</b>	<b>Galaxy SB(rs)d</b>	<b>CB,VL,ME</b>
Apr 13 2005 8"	11mmT6	MF,ML,EL,NND,R=F		
<b>NGC 4809</b>			<b>Galaxy Im pec</b>	<b>F,DNEB W/4810</b>
May 18 2007 31"	17mmT4	CF,PL,EON,NND,R=F		
<b>NGC 4810</b>			<b>Galaxy Im pec</b>	<b>F,DNEB W/4809</b>
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		

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<b>NGC 4818</b> May 22 2004 8"	25mmPL	<b>H549-2</b> DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SAB(rs)ab pec:</b>	<b>PB,L,PME0,GBM</b>
<b>NGC 4845</b> May 04 2005 8"	11mmT6	<b>H536-2</b> MF,MS,EL,EON,FNUC,R=G	<b>Galaxy SA(s)ab sp</b>	<b>PF,PL,PME,VGBM,*NF</b>
<b>NGC 4856</b> Apr 28 2006 31" Apr 16 2004 8"	19mmW 25mmPL	<b>H68-1</b> CB,CL,EL,EON,BNUC,MSB,R=G CLEAR - PALM PILOT DIRECTED	<b>Galaxy SB(s)0/a</b>	<b>B,R,PSMBM,*13NP</b>
<b>NGC 4866</b> Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	<b>H162-1</b> CN.VL,EON,BNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(r)0+: sp</b>	<b>B,PL,ME90,SBMN,S*INV</b>
<b>NGC 4880</b> Apr 09 2008 8"	11mmT6	<b>H83-3</b> VF,CS,R,NND,LSB,AV,R=F	<b>Galaxy SA(r)0+:</b>	<b>CF,PL,R,VGLBM,R</b>
<b>NGC 4900</b> Apr 28 2006 31"	19mmW	<b>H143-1</b> FB,PL,R,UB,NND,R=F	<b>Galaxy SB(rs)c</b>	<b>CB,CE,*10ATT POS135</b>
<b>NGC 4902</b> Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	<b>H69-1</b> VF,CS,R,NND,LSB,AV,R=F DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SB(r)b</b>	<b>PB,PL,IR,ST NR</b>
<b>NGC 4904</b> Apr 09 2008 8"	11mmT6	<b>H517-2</b> VF,CS,R,NND,AV,R=F	<b>Galaxy SB(s)cd</b>	<b>PB,PS,R,BM</b>
<b>NGC 4915</b> Apr 09 2008 8"	11mmT6	<b>H47-4</b> VF,VS,R,NND,AV,R=F	<b>Galaxy E0</b>	<b>PB,S,R,BM</b>
<b>NGC 4928</b> Apr 09 2008 8"	11mmT6	<b>H190-2</b> VF,PL,OVAL,NND,LSB,R=F	<b>Galaxy SA(s)bc pec</b>	<b>F,PS,VLE,GLBM</b>
<b>NGC 4933A</b> May 18 2007 31"	17mmT4	<b>H561-2</b> CB,PL,OVAL,BNUC,HISB,R=G	<b>Galaxy S0/a pec</b>	
<b>NGC 4933B</b> May 18 2007 31"	17mmT4	<b>H561-2</b> PB,PS,OVAL,FNUC,MSB,R=G	<b>Galaxy E pec</b>	
<b>NGC 4939</b> Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	<b>H561-2</b> DIFF,VF,PL,OVAL,NND,LSB,R=F DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(s)bc</b>	<b>PB,L,R,GMBM</b>
<b>NGC 4941</b> Apr 09 2008 8"	11mmT6	<b>H40-1</b> PF,CS,EL,OVAL,UB,NND,R=F	<b>Galaxy (R)SAB(r)ab:</b>	<b>PF,L,E,GBMBN,R</b>
<b>NGC 4958</b>		<b>H130-1</b>	<b>Galaxy SB(r)0? sp</b>	<b>VB,PS,E,BMBN</b>

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<b>NGC 4958</b>		<b>H130-1</b>	<b>Galaxy SB(r)0? sp</b>	<b>VB,PS,E,BMBN</b>
Apr 28 2006 31"	19mmW	CB,P,EON,BNUC,HISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4981</b>		<b>H189-2</b>	<b>Galaxy SAB(r)bc</b>	<b>B,PL,R,*10SF1'</b>
Apr 09 2008 8"	11mmT6	PF,CS,R,NND,LSB,R=F		
<b>NGC 4984</b>		<b>H301-2</b>	<b>Galaxy (R)SAB(rs)0+</b>	<b>B,PL,R,PSMBM</b>
Apr 09 2008 8"	11mmT6	PB,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 4995</b>		<b>H42-1</b>	<b>Galaxy SAB(rs)b</b>	<b>PB,PL,R,VGPMBM,*8NP</b>
Apr 28 2006 31"	19mmW	PB,CL,OVAL,FNUC,MSB,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4999</b>		<b>H537-2</b>	<b>Galaxy SB(r)b</b>	<b>CF,PL,R,LBM,ER</b>
Apr 09 2008 8"	11mmT6	DIFF,VF,PS,OVAL,NND,AV,R=F		
<b>NGC 5018</b>		<b>H746-2</b>	<b>Galaxy E3:</b>	<b>CB,S,R,MBMPBN</b>
Apr 09 2008 8"	11mmT6	PB,PS,OVAL,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 5020</b>		<b>H129-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>CF,CL,VLE,LBM</b>
Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,LSB,R=G		
<b>NGC 5022</b>			<b>Galaxy SBb pec sp</b>	<b>VF,PL,E30,GBM,F5018</b>
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=21		
<b>NGC 5037</b>		<b>H510-2</b>	<b>Galaxy SA(s)a:</b>	<b>CF,PS,VLE,BM</b>
Apr 09 2008 8"	11mmT6	VF,VS,EON,NND,AV,R=F		
<b>NGC 5044</b>		<b>H511-2</b>	<b>Galaxy E0</b>	<b>PB,PL,R,BM</b>
Apr 09 2008 8"	11mmT6	PF,CS,R,FNUC,MSB,R=G		
<b>NGC 5054</b>		<b>H513-2</b>	<b>Galaxy SA(s)bc</b>	<b>F,PS,IR</b>
Apr 28 2006 31"	19mmW	CB,PL,OVAL,UB,NND,R=F		
<b>NGC 5068</b>		<b>H312-2</b>	<b>Galaxy SAB(rs)cd</b>	<b>F,L,IR,BM</b>
Apr 26 2009 16"	11mmT6	PF,PL,R,UB,NND,R=F		
Apr 09 2008 8"	11mmT6	DIFF,VF,PL,R,NND,AV,R=F		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
<b>NGC 5077</b>		<b>H193-2</b>	<b>Galaxy E3-4</b>	<b>PB,S,VLE,SBM,2ND OF3</b>
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,UB,FNUC,R=G		
<b>NGC 5084</b>		<b>H313-2</b>	<b>Galaxy S0 sp</b>	<b>CB,CS,VLE90,BF</b>
Apr 09 2008 8"	11mmT6	PF,PL,EON,UB,FNUC,R=G		

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<b>NGC 5087</b> Apr 09 2008 8"	11mmT6	<b>H724-3</b> PF,PS,OVAL,FNUC,MSB,R=G	<b>Galaxy SA0:</b>	<b>CF,VS,IF</b>
<b>NGC 5129</b> Apr 09 2008 8"	11mmT6	<b>H653-2</b> PF,PS,R,NND,AV,R=F	<b>Galaxy E</b>	<b>PB,VS,R,GMBM,**F</b>
<b>NGC 5134</b> Apr 09 2008 8"	11mmT6	<b>H314-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)b?</b>	<b>F,PS,LE,VGBM</b>
<b>NGC 5146</b> Apr 06 2010 12"	11mmT6	<b>H115-3</b> CF,CS,R,UB,NND,R=F	<b>Galaxy E/S0</b>	<b>VF,VS,STELLAR</b>
<b>NGC 5147</b> Jun 03 2019 12"	8mm Et	<b>H25-2</b> VF,VS,R,UB,NND,AV1,R=F	<b>Galaxy SB(s)dm</b>	<b>PB,PL,VLE,VSMBM*12</b>
<b>NGC 5221</b> May 23 2012 18"	8.8 ES	<b>H86-3</b> PF,PS,EON,FNUC,MSB,R=F,PA=120	<b>Galaxy Sb:</b>	<b>VF,S,VLE,1ST OF 3</b>
<b>NGC 5222</b> May 23 2012 18"	8.8 ES	<b>H85-3</b> VF,CS,OVAL,MEXT,UB,,NND,AV2,R=F,PA=50	<b>Galaxy E</b>	<b>CF,S,R,BM,2ND OF 3</b>
<b>NGC 5230</b> May 23 2012 18"	8.8 ES	<b>H87-3</b> PF,PS,R,UB,NND,R=F	<b>Galaxy SA(s)c</b>	<b>F,L,E,VGBM,3RD OF 3</b>
<b>NGC 5247</b> May 22 2004 8"	25mmPL	<b>H297-2</b> DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(s)bc</b>	<b>CF,VL,VG,PSMBMLN,</b>
<b>NGC 5257</b> May 23 2012 18"	8.8 ES	<b>H895-2</b> PF,CS,OVAL,MEXT,FNUC,R=G,PA=135, PAIRED WITH NGC-5258, NO INTERATION VISIBLE	<b>Galaxy SAB(s)b pec</b>	<b>VF,S,R,BM,P OF DNEB</b>
<b>NGC 5258</b> May 23 2012 18"	8.8 ES	<b>H896-2</b> PF,PS,OVAL,MEXT,FNUC,R=G,PA=45, PAIRED W/NGC-5257, NO INTERATION VISIBLE	<b>Galaxy SA(s)b: pec</b>	<b>F,S,IR,F OF DNEB</b>
<b>NGC 5363</b> Apr 14 2016 12" Apr 28 2006 31" May 22 2004 8"	11mmT6 19mmW 25mmPL	<b>H6-1</b> PF,PS,OVAL,UB,NND,R=F PB,S,R,FNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy I0?</b>	<b>B,PL,R,PSBM,*8NF</b>
<b>NGC 5364</b> Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	<b>H534-2</b> B,CS,R,NND,R=F DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(rs)bc pec</b>	<b>CF,L,R,GBM</b>
<b>NGC 5426</b> May 30 2016 12" May 23 2012 18" Apr 09 2008 8"	8mm Ds 8.8 ES 11mmT6	<b>H309-2</b> VF,VS,OVAL,NND,R=F. PAIRED W/NGC-5427 PB,PS,OVAL,FNUC,MSB,R=G,PA=5, PAIRED WITH NGC-5427 VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SA(s)c pec</b>	<b>PF,CL,R,GMBM,SP OF 2</b>

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<b>NGC 5427</b>		<b>H310-2</b>	<b>Galaxy SA(s)c pec</b>	<b>PF,CL,R,NF OF 2</b>
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,R=F.	PAIRED W/NGC-5426	
May 23 2012 18"	8.8 ES	PF,PL,OVAL,MEXT,FNUC,R=G,	PA=90, PAIRED WITH NGC-5426	
<b>NGC 5493</b>		<b>H46-4</b>	<b>Galaxy S0 pec sp</b>	<b>PB,VS,R,PSMBM*,*18IN</b>
May 19 2010 12"	7.5mmW	PF,CS,OVAL,MEXT,BNUC,R=G		
<b>NGC 5506</b>		<b>H687-2</b>	<b>Galaxy Sa pec sp</b>	<b>PB,L,E20,LBM</b>
May 19 2010 12"	7.5mmW	DIFF,CF,PS,EON,NND,R=F		
<b>NGC 5507</b>		<b>H49-4</b>	<b>Galaxy SAB(r)0^</b>	<b>CF,S,R,STELLAR</b>
May 19 2010 12"	7.5mmW	PF,CS,OVAL,MEXT,FNUC,MR=G		
<b>NGC 5534</b>			<b>Galaxy (R')SAB(s)ab p:</b>	<b>PF,ST INV,*12NP</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
<b>NGC 5549</b>		<b>H552-3</b>	<b>Galaxy S0</b>	<b>VF,VS,R</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,MET,FNUC,R=F		
<b>NGC 5560</b>		<b>H579-2</b>	<b>Galaxy SB(s)b pec</b>	<b>PF,CL,E,GBM</b>
May 30 2016 12"	8mm Ds	PF,PS,VEXT,NND,R=G		
May 23 2012 18"	8.8 ES	PB,PS,EON,FNUC,HSB,R=F,PA=150		
Apr 28 2006 31"	19mmW	B,PL,EON,UB,NND,R=F		
<b>NGC 5566</b>		<b>H144-1</b>	<b>Galaxy SB(r)ab</b>	<b>B,PL,R,PSBM,R,*F1.5'</b>
May 30 2016 12"	8mm Ds	PF,PS,PEXT,FNUC,R=G		
May 23 2012 18"	8.8 ES	PB,PS,OVAL,PEXT,BNUC,R=G,	PAIRED WITH NGC-5569	
Apr 28 2006 31"	19mmW	CB,CL,EON,BNUC,HISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 5569</b>			<b>Galaxy SAB(rs)cd:</b>	<b>EF,PL,R</b>
May 30 2016 12"	8mm Ds	VF,VS,R,NND,R=F		
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,AV1,R=F,	PAIRED WITH NGC-5566	
<b>NGC 5574</b>		<b>H145-1</b>	<b>Galaxy SB0:-? sp</b>	<b>PF,PS,LE,P OF 2</b>
May 30 2016 12"	7mm TV	PF,PS,OVAL,NND,R=F		
Apr 28 2006 31"	19mmW	F,CL,OVAL,UB,NND,R=F		
<b>NGC 5576</b>		<b>H146-1</b>	<b>Galaxy E3</b>	<b>B,S,R,VSMBM,F OF 2</b>
May 30 2016 12"	7mm TV	F,PS,OVAL,MEXT,FNUC,R=F		
Apr 28 2006 31"	19mmW	B,L,OVALBNUC,HISB,R=G		
<b>NGC 5577</b>			<b>Galaxy SA(rs)bc:</b>	<b>PF,PL,VME53</b>
May 30 2016 12"	8mm Ds	VF,PS,EON,UB,NND,AV1,R=F		
<b>NGC 5599</b>		<b>H927-3</b>	<b>Galaxy Sb</b>	<b>F,S,LE</b>
Apr 28 2006 31"	19mmW	F,PS,EON,NND,R=F		



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<b>NGC 5618</b>		<b>H763-3</b>	<b>Galaxy SB(rs)c</b>	<b>EF,S</b>
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
<b>NGC 5619</b>			<b>Galaxy SAB(rs)b</b>	<b>VF,S,R,VGBM</b>
Apr 28 2006 31"	19mmW	PF,PS,EL,OVAL,FNUC,R=F		
<b>NGC 5634</b>		<b>H70-1</b>	<b>Globular</b>	<b>GCL,VB,CL,R,GBM,RRR</b>
Jun 19 2020 12"	13mmHV	SMALL AND FAINT.R=F		
May 30 2016 12"	8mm Et	F,S,R=F		
Apr 14 2016 12"	11mmT6	SURPRISE IN VIRGO.		
Apr 28 2006 31"	19mmW	PB,CL,R,R=G, CAN'T RESOLVE STARTS. VIII		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
<b>NGC 5636</b>		<b>H580-2</b>	<b>Galaxy SAB(r)0+</b>	<b>EF,CL,R,NP OF 2</b>
May 19 2010 12"	7.5mmW	VF,CS,OVAL,UB,NND,R=F		
<b>NGC 5638</b>		<b>H581-2</b>	<b>Galaxy E1</b>	<b>CB,PL,R,SF OF 2</b>
May 19 2010 12"	7.5mmW	PF,PS,R,UB,NND.R=F		
<b>NGC 5652</b>		<b>H891-2</b>	<b>Non-Existent</b>	<b>PB,PL,VLE,BM</b>
Apr 28 2006 31"	19mmW	F,S,OVAL,UB,NND,R=F		
<b>NGC 5661</b>		<b>H892-2</b>	<b>Galaxy SBb:</b>	<b>VF,PS,IE</b>
Apr 29 2006 31"	19mmW	CF,PS,EON,NND,R=F		
<b>NGC 5668</b>		<b>H574-2</b>	<b>Galaxy SA(s)d</b>	<b>F,PS,VLE,*14INV</b>
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
<b>NGC 5679A</b>			<b>Galaxy Sc</b>	
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F, PA=45		
Apr 29 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5679B</b>			<b>Non-Existent</b>	
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F, PA=145		
Apr 29 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5701</b>		<b>H575-2</b>	<b>Galaxy (R)SB(rs)0/a</b>	<b>CB,PS,R,MBM,*11P15S</b>
May 30 2016 12"	8mm Ds	PF,PS,R,UB,NND,R=F		
Apr 29 2006 31"	19mmW	CB,S,R,FNUC,MSB,R=F		
<b>NGC 5718</b>		<b>H550-3</b>	<b>Galaxy S0-:</b>	<b>VF,S,R,VGLBM,*8,9NF</b>
May 23 2012 18"	8.8 ES	CF,PS,OVAL,MEXT,UB,NND,AV2,R=F		
Apr 18 2012 18"	11mmT6	PB,PS,EON,FNUC,HSB,R=G, PA=60		
<b>NGC 5746</b>		<b>H126-1</b>	<b>Galaxy SAB(rs)b? sp</b>	<b>B,L,VME170,BMBN</b>
May 04 2005 8"	11mmT6	VB,VL,EL,EON,FNUC,R=G		

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<b>NGC 5750</b>		<b>H183-1</b>	<b>Galaxy SB(r)0/a</b>	<b>PF,PS,VLE,R</b>
May 19 2010 12"	7.5mmW	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 5774</b>			<b>Galaxy SAB(rs)d</b>	<b>PF,PL,R,NP OF 2</b>
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
<b>NGC 5775</b>		<b>H554-3</b>	<b>Galaxy SBc? sp</b>	<b>F,PS,VME148,GVLBM</b>
May 19 2010 12"	7.5mmW	PF,PS,EON,UB,NND,R=F		
<b>NGC 5806</b>		<b>H539-2</b>	<b>Galaxy SAB(s)b</b>	<b>CB,CL,E165,SBMN</b>
May 19 2010 12"	7.5mmW	PF,PS,OVAL,MEXT,FNUC,R=F		
<b>NGC 5813</b>		<b>H127-1</b>	<b>Galaxy E1-2</b>	<b>B,PS,R,PSMBM</b>
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 5831</b>		<b>H540-2</b>	<b>Galaxy E3</b>	<b>PB,S,MBM</b>
May 19 2010 12"	7.5mmW	CF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5838</b>		<b>H542-2</b>	<b>Galaxy SA0-</b>	<b>PB,PS</b>
May 19 2010 12"	7.5mmW	PF,PS,EON,FNUC,MUSB,R=F		
<b>NGC 5839</b>		<b>H541-2</b>	<b>Galaxy SAB(rs)0^:</b>	<b>PF,PS</b>
May 19 2010 12"	7.5mmW	CF,VS,R,FNUC,R=F		
<b>NGC 5846</b>		<b>H128-1</b>	<b>Galaxy E0-1</b>	<b>VB,PL,R,PSBMN,F*INVS</b>
May 19 2010 12"	7.5mmW	PF,PS,R,FNUC,R=G		
Apr 28 2006 31"	19mmW	CB,CL,R,FNUC,R=G		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @ 1:30AM.		
<b>NGC 5846A</b>			<b>Galaxy cE2-3</b>	
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
<b>NGC 5850</b>		<b>H543-2</b>	<b>Galaxy SB(r)b</b>	<b>CF,S,LE,PSBM</b>
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
<b>NGC 5854</b>		<b>H544-2</b>	<b>Galaxy SB(s)0+ sp</b>	<b>PB,S,VLE,LBM,AM ST</b>
May 19 2010 12"	7.5mmW	PF,PS,EON,FNUC,R=F		
<b>NGC 5864</b>		<b>H585-2</b>	<b>Galaxy SB(s)0^? sp</b>	<b>PF,CS,ILE,GBM,*14F</b>
May 19 2010 12"	7.5mmW	PF,PS,EON,UB,NND,R=F		
<b>PGC 36325</b>			<b>Galaxy Pec</b>	
May 18 2007 31"	17mmT4	VF,S,R,NND,R=F		
<b>PGC 36723</b>			<b>Galaxy SAB(rs)b? pec</b>	
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=P		

## Virgo - The Virgin

<b>PGC 36733</b>			<b>Galaxy SB(s)b: pec</b>
May 18 2007 31"	17mmT4	PB,PS,EL,OVAL,NND,R=F	
<b>PGC 36742</b>			<b>Galaxy SB(s)c pec</b>
May 18 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 40602</b>			<b>Galaxy S?</b>
Mar 30 2014 18"	7mm TV	VF,VS,R,UB,NND,R=F	
<b>PGC 41410</b>			<b>Galaxy SAB(s)c:</b>
May 14 2007 31"	17mmT4	CF,CS,EL,OVAL,NND,R=F	
<b>PGC 41666</b>			<b>Galaxy</b>
May 14 2007 31"	17mmT4	PF,CS,EON,UB,NND,R=F	
<b>PGC 41726</b>			<b>Galaxy E</b>
May 14 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F	
<b>PGC 43728</b>			<b>Galaxy Sab</b>
May 18 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G	
<b>PGC 43762</b>			<b>Galaxy</b>
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 43944</b>			<b>Galaxy S</b>
May 18 2007 31"	17mmT4	DIFF,CF,PL,EON,UB,NND,R=F	
<b>PGC 44358</b>			<b>Galaxy Sd: sp</b>
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=100	
<b>PGC 45084</b>			<b>Galaxy IB(s)m sp</b>
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=110	
<b>PGC 51389</b>			<b>Galaxy C</b>
Apr 28 2006 31"	19mmW	VF,VS,R,NND,R=F	
<b>PGC 51400</b>			<b>Galaxy SB(s)d</b>
Apr 28 2006 31"	19mmW	CF,CS,OVAL,NND,R=F	
<b>PGC 51622</b>			<b>Galaxy Sbc</b>
Apr 28 2006 31"	19mmW	F,S,R,NND,R=F CLASS O1503	
<b>PGC 51909</b>			<b>Galaxy Sc</b>
Apr 29 2006 31"	19mmW	VF,VS,EON,NND,AV,R=F	
<b>PGC 52199</b>			<b>Galaxy S0</b>
Apr 29 2006 31"	19mmW	F,VS,R,NND,R=F	

## Virgo - The Virgin

**PK 318+41.1**

Jun 07 2010 12" 9mm

**Planetary Neb 3b+3a**

CF,PL,PATCHY, NO CENTRAL STAR DETECTED,R=P

## Vulpecula - The Fox

<b>CR 399</b>			<b>Open Cluster III3m</b>	
Jul 13 2020	12"	30mmES	COATHANGER,. B,VL,R=E	
Oct 09 2018	12"	35mm A	THE COATHANGER. VERY NICE CLUSTER.	
Jul 19 2017	12"	17mmT4	VERY NICE. R=G	
Nov 14 2006	1.9"	12x50	B,L,NO COMPRESSION,R=G	
<b>IC 4954</b>			<b>Nebula R</b>	
Nov 16 2012	18"	11mmT6	FAINT,SMALL,R=F	
<b>NGC 6793</b>			<b>H81-8</b>	<b>Open Cluster III 2 p</b>
Aug 18 2010	12"	11mmT6	PF,PS,R=F, STARS 10-12	<b>CL,P,LC</b>
<b>NGC 6800</b>			<b>H21-8</b>	<b>Open Cluster 10.0 IV 1 p</b>
Aug 18 2010	12"	11mmT6	PF,CS,R=P,STARS 8+?	<b>CL,VL,PRI,VLC,ST10..</b>
<b>NGC 6802</b>			<b>H14-6</b>	<b>Open Cluster 14.0 I 1 m</b>
Jul 23 2006	8"	11mmT6	PF,CS,R=F	<b>CL,L,VC,E0,ST14...18</b>
<b>NGC 6813</b>			<b>Nebula E</b>	<b>**IN VF,S NEB</b>
Nov 16 2012	18"	11mmT6	6-8 STARS WITH FAINT NEBULA,R=F	
<b>NGC 6820</b>			<b>Nebula E</b>	<b>F,S,R,BM</b>
Jul 08 2019	12"	17mmT4	PF,L,R=F. JUST DETECTED WITH LP2.	
Jun 20 2007	1.9"	12x50	PF,S,R=F, JUST DETECTED	
<b>NGC 6823</b>			<b>H18-7</b>	<b>Open Cluster 8.8 I 3 m n</b>
Jul 08 2019	12"	17mmT4	F,S,R=G. IMBEDDED IN NGC-6820	<b>CL,CRI,E,ST11...12</b>
Jun 20 2007	1.9"	12x50	PF,PS, STARS 6+,R=F	
Jul 23 2006	8"	11mmT6	B,PS,R=F	
<b>NGC 6827</b>			<b>Open Cluster 13.0 I 1 m</b>	<b>VF,E,DIF,SEV ST INV</b>
Sep 02 2016	12"	8mm Et	F,S,R=F	
<b>NGC 6830</b>			<b>H9-7</b>	<b>Open Cluster 10.0 II 2 p</b>
Jul 23 2006	8"	11mmT6	B,PS,R=F	<b>CL,L,PRI,PC,*11...12</b>
<b>NGC 6842</b>			<b>Planetary Neb 3b</b>	<b>F,PL,VLE</b>
Sep 01 2008	31"	17mmT4	PF,PS,R=P. NO CENTRAL STAR	
<b>NGC 6853</b>			<b>M27</b>	<b>Planetary Neb 3+2</b>
Jul 26 2020	12"	17mmT4	NV+IR685 FILTER. INVISIBLE NO MATTER WHAT FILTER I USED.	<b>VB,VL,BIN,IE,DUMBDEL</b>
Jul 17 2020	12"	30mmES	OUTSTANDING	
Jun 24 2020	12"	20mmOF	OUTSTANDING. R=E	
Jun 19 2020	12"	13mmHV	B,L,R=E. NO FILTER AND STILL LOOKED GOOD.	
Jul 08 2018	12"	17mmT4	B,L,R=E. NARROWBAND FILTER	
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.	

## Vulpecula - The Fox

<b>NGC 6853</b>	<b>M27</b>	<b>Planetary Neb 3+2</b>	<b>VB,VL,BIN,IE,DUMBDEL</b>
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"	32mmUV	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 6882</b>	<b>H22-8</b>	<b>Open Cluster</b>	<b>CL,P,LC</b>
Jul 13 2020 12"	30mmES	F,PS,R=P	
Jul 23 2006 8"	11mmT6	PB,PS,R=F	
<b>NGC 6885</b>	<b>H20-8</b>	<b>Open Cluster 5.9 III 2 m</b>	<b>CL,VB,VL,RI,LC,*6.11</b>
Jul 13 2020 12"	13mmHV	F,S,R=F	
Jul 23 2006 8"	11mmT6	PB,PS,R=F	
<b>NGC 6921</b>		<b>Galaxy SA(r)0/a:</b>	<b>F,S,E</b>
Sep 01 2008 31"	17mmT4	PF,S,R,FNUC,R=F	
<b>NGC 6940</b>	<b>H8-7</b>	<b>Open Cluster 11.0 III 2 r</b>	<b>CL,VB,VL,VRI,CC,STPL</b>
Jul 19 2017 12"	17mmT4	VERY NICE. FULL AND SCATTERED.	
Nov 14 2006 1.9"	12x50	F,S,LOOSER,R=F	
Jul 23 2006 8"	11mmT6	PB,PL,R=G	
<b>NGC 7052</b>	<b>H145-3</b>	<b>Galaxy E</b>	<b>F,S,VLE,R</b>
Sep 01 2011 31"	17mmT4	PB,PS,OVAL,PEXT,FNUC,R=G	
Sep 01 2008 31"	17mmT4	PF,S,EL,OVAL,UB,NND,R=F	
<b>NGC 7080</b>		<b>Galaxy SB(r)b</b>	<b>VF,S,VLE</b>
Sep 01 2008 31"	17mmT4	PF,S,R,FNUC,R=F	
<b>PGC 66538</b>		<b>Galaxy</b>	
Sep 01 2011 31"	17mmT4	PF,CS,R,BNUC,R=G	