

# Observations Listing by Catalog Number

<b>ABELL 31</b>	<b>Cnc</b>	<b>Planetary Neb 3a</b>
Mar 15 2005 8"	11mmT6 VF,PATCHY,LARGE,R=F	
<b>ABELL 36</b>	<b>Vir</b>	<b>Planetary Neb</b>
Jul 13 2013 18"	11mmT6 VF,VS,R=F. NO CENTRAL STAR NOTED. USED OIII FILTER.	
<b>ABELL 56</b>	<b>Aql</b>	<b>Planetary Neb 4</b>
Jul 03 2005 8"	19mmW DIFF,MF,VL,PATCHY,R=G	
<b>ABELL 67</b>	<b>Aql</b>	<b>Planetary Neb 2b</b>
Aug 13 2010 31"	17mmT4 VF,VS,AV,R=P. NO CENTRAL STAR NOTED.	
<b>B 33</b>	<b>Ori</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>B 326</b>	<b>Aql</b>	<b>Galaxy</b>
Jul 13 2007 8"	11mmT6 PB,PL,FAINT GLOW-NO FILTER,R=G	
<b>BOL 119</b>	<b>And</b>	<b>Globular</b>
Aug 02 2005 8"	11mmT6 MB,ML,OVAL,MSB,R=G	
<b>CR 21</b>	<b>Tri</b>	<b>Open Cluster III3p</b>
Oct 29 2008 16"	17mmT4 B,CS,15+ STARS,R=F	
<b>CR 39</b>	<b>Per</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>CR 62</b>	<b>Aur</b>	<b>Galaxy IV3p</b>
Dec 28 2006 1.9"	12x50 PF,S,PATCHY,UNRESOLVED,R=F	
<b>CR 89</b>	<b>Gem</b>	<b>Galaxy IV2pn</b>
Dec 28 2006 1.9"	12x50 LARGE,FEW STARS,R=F	
<b>CR 256</b>	<b>Com</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>CR 285</b>	<b>UMa</b>	<b>Open Cluster IV1p</b>
Jul 21 2007 1.9"	12x50 EB,EL,VERY LOOSE,R=G	
<b>CR 331</b>	<b>Oph</b>	<b>Open Cluster II 1m</b>
Jul 31 2005 8"	11mmT6 MF,FS,OVAL SHAPE, R=F, LOOSE GROUPING	

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<b>CR 350</b>	<b>Oph</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>CR 399</b>	<b>Vul</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>CR 401</b>	<b>Aql</b>	<b>Open Cluster IV2m</b>
Jul 03 2005 8"	19mmW	VERY LOOSE GROUP, R=F
<b>CR 419</b>	<b>Cyg</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>Cyg</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 427</b>	<b>Cep</b>	<b>Open Cluster IV 1 pn</b>
Jul 17 2020 12"	13mmHW	VF,PS,R=P
<b>CR 428</b>	<b>Cyg</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 463</b>	<b>Cas</b>	<b>Galaxy III2m</b>
Oct 13 2006 1.9"	12x50	B,S,R=F
<b>CR 470</b>	<b>Cyg</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>DJORC 2</b>	<b>Sgr</b>	<b>Globular</b>
Aug 02 2019 12"	17mmT4	F,S,R=F. BARELY DETECTED.
<b>ESO 456-38</b>	<b>Sgr</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>HAFF 6</b>	<b>CMa</b>	<b>Open Cluster IV2rn</b>
Dec 19 2006 31"	17mmT4	PF,PS,R=F,VMCOMPRESSED
<b>HENIZ 2-260</b>	<b>FIX</b>	<b>Planetary Neb</b>
Jul 24 2006 8"	7.5mmW	VF,VS,R,AV,R=F

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<b>HENIZ 2-438</b> Aug 18 2010 12"	<b>Cyg</b> 26mm	<b>Planetary Neb 4</b> PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER
<b>HENIZ 2-441</b> Aug 12 2005 8"	<b>FIX</b> 7.5mmW	<b>Planetary Neb 4</b> VF,VS,AV,R=F
<b>HP 1</b> Jul 23 2016 12" Jul 13 2007 8"	<b>Oph</b> 8mm Et 7.5mmW	<b>Globular</b> VF,VS,R=P. VF,VS,R,PATCHY,R=F
<b>IC 2</b> Dec 12 2012 36"	<b>Cet</b> 17mmT4	<b>Galaxy Sb</b> VF,VS,OVAL,UB,NND,R=F
<b>IC 3</b> Dec 12 2012 36"	<b>Psc</b> 17mmT4	<b>Galaxy E/S0</b> PG,PD,OVAL,MEXT,FNUC,R=F
<b>IC 8</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	<b>Galaxy Sc</b> VF,VS,OVAL,NND,AV,R=F
<b>IC 10</b> Sep 02 2019 12" Oct 05 2016 12" Nov 11 2009 12" Oct 25 2009 12" Aug 21 2004 8"	<b>Cas</b> 11mmT6 11mmT6 7.5mmW 11mmT6 11mmT6	<b>Galaxy IBm</b> DIFF,VF,S,OVAL,UB,R=F PF,S,OVAL,DIFF,NND,R=F VF,PS,R,NND,AV,R=F F,PS,OVAL,NND,AV,R=F CLEAR SKIES - H.H. LITE. 1ST REAL TEST
<b>IC 43</b> Sep 12 2010 12"	<b>And</b> 7mm TV	<b>Galaxy SABc</b> DIFF,VF,PS,R,NND,R=F
<b>IC 59</b> Sep 05 2007 8"	<b>Cas</b> 11mmT6	<b>Nebula E+R</b> PF,L,R=F
<b>IC 63</b> Oct 21 2012 8" Sep 05 2007 8"	<b>Cas</b> 11mmT6 11mmT6	<b>Nebula E+R</b> PF,PS,Y-SHAPED,R=F PF,PS,R=P
<b>IC 65</b> Oct 17 2004 8"	<b>And</b> 7.5mmW	<b>Galaxy SAB(s)bc</b> MF,EL,EON,NND,AV,R=G
<b>IC 101</b> Dec 12 2012 36"	<b>Psc</b> 17mmT4	<b>Galaxy S?</b> VF,VS,OVAL,UB,NND,R=F
<b>IC 102</b> Dec 12 2012 36"	<b>Psc</b> 17mmT4	<b>Galaxy S0/a</b> VF,VS,OVAL,MEXT,UB,NND,R=F
<b>IC 114</b> Dec 12 2012 36"	<b>Psc</b> 17mmT4	<b>Galaxy S0</b> PF,PS,OVAL,UUD,R=F,BRIGHTER TOWARDS THE MIDDLE

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<b>IC</b>	<b>154</b>	<b>Psc</b>	<b>Galaxy Sb</b>
	Nov 10 2007 31"	17mmT4 VF,VS,EON,NND,R=F	
<b>IC</b>	<b>156</b>	<b>Psc</b>	<b>Galaxy S?</b>
	Nov 10 2007 31"	17mmT4 PB,PS,OVAL,BNUC,R=G	
<b>IC</b>	<b>166</b>	<b>Cas</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>171</b>	<b>Tri</b>	<b>Galaxy E?</b>
	Nov 24 2006 31"	20mmUW B,CS,OVAL,FNUC,R=F	
<b>IC</b>	<b>176</b>	<b>Cet</b>	<b>Galaxy Sc:</b>
	Dec 12 2012 36"	17mmT4 VF,PS,EON,UB,NND,R=P,PA=95	
<b>IC</b>	<b>179</b>	<b>And</b>	<b>Galaxy E</b>
	Nov 08 2010 12"	5.5mmN PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>194</b>	<b>Cet</b>	<b>Galaxy Sb: sp</b>
	Dec 12 2012 36"	17mmT4 VFR,VS,EON,UB,NND,R=P,PA=10	
<b>IC</b>	<b>200</b>	<b>Tri</b>	<b>Galaxy</b>
	Nov 02 2005 31"	19mmW PF,ML,R,NND,R=F	
<b>IC</b>	<b>221</b>	<b>Tri</b>	<b>Galaxy Sc</b>
	Dec 19 2006 31"	17mmT4 PF,L,OVAL,NND,R=F	
<b>IC</b>	<b>226</b>	<b>Tri</b>	<b>Galaxy S?</b>
	Dec 19 2006 31"	17mmT4 CF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>227</b>	<b>Tri</b>	<b>Galaxy E</b>
	Dec 19 2006 31"	17mmT4 PB,L,OVAL,FNUC,MHISB,R=G	
<b>IC</b>	<b>235</b>	<b>Ari</b>	<b>Galaxy Pec</b>
	Oct 30 2005 31"	17mmT4 MF,MS,R,NND,R=F	
<b>IC</b>	<b>238</b>	<b>Ari</b>	<b>Galaxy S0</b>
	Oct 30 2005 31"	17mmT4 MB,ML,EL,OVAL,RNUC,R=G	
<b>IC</b>	<b>239</b>	<b>And</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>And</b>	<b>Non-Existent</b>
	Oct 10 2012 18"	8.8 ES NON-EXISTENT	
<b>IC</b>	<b>248</b>	<b>Ari</b>	<b>Galaxy Sa:</b>
	Oct 30 2005 31"	17mmT4 MB,ML,OVAL,FNUC,R=G	

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<b>IC</b>	<b>257</b>	<b>Per</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>Per</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>289</b>	<b>Cas</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>293</b>	<b>Per</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>Per</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>Per</b>	<b>Galaxy SA(s)0^</b>
	Dec 13 2012 18"	7mm TV PF,PS,R,FNUC,R=F	
<b>IC</b>	<b>329</b>	<b>Tau</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>Tau</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>Tau</b>	<b>Galaxy S?</b>
	Dec 13 2012 18"	7mm TV PF,PS,R,UB,NND,R=F	
<b>IC</b>	<b>334</b>	<b>Cam</b>	<b>Galaxy S?</b>
	Oct 12 2012 18"	7mm TV F,S,OVAL,BNUC,R=G	
<b>IC</b>	<b>342</b>	<b>Cam</b>	<b>Galaxy SAB(rs)cd</b>
	Oct 12 2012 18"	7mm TV DIFF,F,L,R,UB,NND,R=G	
<b>IC</b>	<b>347</b>	<b>Eri</b>	<b>Galaxy SAB(r)0^:</b>
	Nov 24 2006 8"	11mmT6 VF,VS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>348</b>	<b>Per</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>Per</b>	<b>Planetary Neb 2a</b>
	Dec 18 2006 31"	20mmUW PB,VS,R,R=G	
<b>IC</b>	<b>356</b>	<b>Cam</b>	<b>Galaxy SA(s)ab pec</b>
	Oct 12 2012 18"	7mm TV F,L,OVAL,BNUC,R=G, SPIRAL ARM NORTH	

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<b>IC 361</b>	<b>Cam</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 374</b>	<b>Tau</b>	<b>Galaxy</b>	
Dec 18 2006 31"	20mmUW PF,S,EON,NND,R=F		
<b>IC 381</b>	<b>Cam</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>Cam</b>	<b>Galaxy SA(s)c</b>	
Oct 12 2012 18"	7mm TV PF,PS,R,FNUC,R=F		
<b>IC 396</b>	<b>Cam</b>	<b>Galaxy S?</b>	
Oct 12 2012 18"	7mm TV PF,PS,OVAL,FNUC,R=F		
<b>IC 405</b>	<b>Aur</b>	<b>Nebula E</b>	
Dec 07 2005 8"	11mmT6 DARK DUSTLANE LOW SURFACE BRIGHTNESS		
<b>IC 410</b>	<b>Aur</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 418</b>	<b>Lep</b>	<b>Planetary Neb 4</b>	
Dec 28 2008 31"	17mmT4 VB,VS,R,R=G, CENTRAL STAR		
<b>IC 420</b>	<b>Ori</b>	<b>Nebula R</b>	
Feb 20 2006 31"	31mmT5 F,VS,R=F, OIII		
<b>IC 424</b>	<b>Ori</b>	<b>Nebula R</b>	
Feb 20 2006 31"	31mmT5 VF,VS,R=F, OIII		
<b>IC 426</b>	<b>Ori</b>	<b>Nebula R</b>	
Feb 20 2006 31"	31mmT5 MB.ML,R=F, OIII		
<b>IC 431</b>	<b>Ori</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 432</b>	<b>Ori</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 434</b>	<b>Ori</b>	<b>Nebula E</b>	
Nov 21 2006 8"	11mmT6 PF,VL,R=F		
<b>IC 435</b>	<b>Ori</b>	<b>Nebula R</b>	
Jan 24 2009 31"	17mmT4 PF,PS, HINT OF NEBULOSITY,R=F		

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<b>IC</b>	<b>440</b>	<b>Cam</b>	<b>Galaxy SA(r)ab</b>
Oct 12 2012	18"	7mm TV PF,PS,OVAL,UB,NND,R=F,PA=120	
<b>IC</b>	<b>442</b>	<b>Cam</b>	<b>Galaxy S?</b>
Oct 12 2012	18"	7mm TV PF,PS,R,FNUC,R=F	
<b>IC</b>	<b>443</b>	<b>Gem</b>	<b>Nebula E</b>
Nov 25 2006	8"	11mmT6 F,EL,R=F	
<b>IC</b>	<b>445</b>	<b>Cam</b>	<b>Galaxy S0?</b>
Oct 12 2012	18"	7mm TV PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>446</b>	<b>Mon</b>	<b>Nebula bipolar</b>
Dec 15 2004	8"	11mmT6 F,PATCH,R-F	
<b>IC</b>	<b>449</b>	<b>Cam</b>	<b>Galaxy E:</b>
Oct 12 2012	18"	7mm TV PF,PS,OVAL,MEXT,NND,R=F,BRIGHTER TO NE.	
<b>IC</b>	<b>450</b>	<b>Cam</b>	<b>Galaxy SAB0+:</b>
Oct 12 2012	18"	7mm TV VF,VS,OVAL,UB,NND,AV2,R=P	
<b>IC</b>	<b>451</b>	<b>Cam</b>	<b>Galaxy SAB(r)b:</b>
Nov 10 2012	18"	7mm TV VF,VS,OVAL,UB,NND,AV2,R=F	
<b>IC</b>	<b>455</b>	<b>Cep</b>	<b>Galaxy S0</b>
Nov 16 2012	18"	5mm TV VF,VS,OVAL,NND,R=F	
<b>IC</b>	<b>456</b>	<b>CMa</b>	<b>Galaxy SB(rs)0^</b>
Dec 20 2006	31"	17mmT4 PB,FL,OVAL,FNC,R=G	
<b>IC</b>	<b>458</b>	<b>Lyn</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</b>	<b>459</b>	<b>Lyn</b>	<b>Galaxy C</b>
Feb 01 2005	31"	17mmT4 VF,OVAL,NND,AV,R=F	
<b>IC</b>	<b>460</b>	<b>Lyn</b>	<b>Galaxy</b>
Feb 01 2005	31"	17mmT4 VF,MS,EL,NND,LSB,R=F	
<b>IC</b>	<b>461</b>	<b>Lyn</b>	<b>Galaxy S</b>
Feb 01 2005	31"	17mmT4 MF,OVAL,NND,R=F	
<b>IC</b>	<b>464</b>	<b>Lyn</b>	<b>Galaxy E?</b>
Feb 01 2005	31"	17mmT4 MB,S,EON,OVAL,NND,R=G	
<b>IC</b>	<b>465</b>	<b>Lyn</b>	<b>Galaxy S?</b>
Feb 01 2005	31"	17mmT4 MB,MS,EL,FNUC,MSB,R=G	

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<b>IC 467</b>	<b>Cam</b>	<b>Galaxy SAB(s)c:</b>
Feb 01 2005 31"	17mmT4 MB,ML,OVAL,PATCH,NND,R=G	
<b>IC 468</b>	<b>CMa</b>	<b>Nebula E</b>
Dec 19 2006 31"	31mmT5 NORTHERN PART OF NGC2359 - NO FILTER	
Dec 19 2006 31"	31mmT5 NORTHERN PART OF NGC2359 - OIII FILTER!!!	
Nov 22 2006 8"	11mmT6 F,L,IRREGULARSHAPE,R=F	
<b>IC 469</b>	<b>Cep</b>	<b>Galaxy SAB(rs)ab:</b>
Nov 16 2012 18"	5mm TV VF,VS,OVAL,VEXT,NND,AV2,R=F	
<b>IC 499</b>	<b>Cam</b>	<b>Galaxy Sa</b>
Nov 16 2012 18"	7mm TV PF,PS,OVAL,MEXT,UB,NND,R=G	
<b>IC 511</b>	<b>Cam</b>	<b>Galaxy S0/a:</b>
May 25 2014 18"	8mm Ds PF,PS,OVAL,PEXT,UB,NND,AV1,R=F	
<b>IC 512</b>	<b>Cam</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>Cam</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>Cam</b>	<b>Galaxy SA(s)c:</b>
May 25 2014 18"	8mm Ds PF,PS,OVL,PEXT,UB,NND,R=F	
<b>IC 601</b>	<b>Leo</b>	<b>Galaxy S?</b>
Apr 19 2006 31"	19mmW PF,PS,EON,NND,R=F	
<b>IC 602</b>	<b>Leo</b>	<b>Galaxy S:</b>
Apr 19 2006 31"	19mmW VB,PL,OVAL,BNUC,HISB,R=G	
<b>IC 606</b>	<b>Leo</b>	<b>Non-Existent</b>
Apr 19 2006 31"	19mmW PB,PL,OVAL,BNUC,MSB,R=G	
<b>IC 607</b>	<b>Leo</b>	<b>Galaxy SB(rs)bc</b>
Apr 19 2006 31"	19mmW DIFF,PF,PL,OVAL,NND,R=F	
<b>IC 610</b>	<b>Leo</b>	<b>Galaxy Sbc</b>
Apr 19 2006 31"	19mmW PB,VL,EON,UB,HISB,R=G	
<b>IC 612</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 19 2006 31"	19mmW B,PS,OVAL,UB,R=F	
<b>IC 613</b>	<b>Leo</b>	<b>Galaxy E</b>
Apr 19 2006 31"	19mmW PB,PL,R,FNUC,R=G	
<b>IC 615</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 19 2006 31"	19mmW PB,VL,EON,FNUC,MSB,R=G	



## Observations Listing by Catalog Number

<b>IC 616</b>	<b>Leo</b>		<b>Galaxy Scd:</b>
Apr 19 2006 31"	19mmW	PF,PL,R,NND,R=F	
<b>IC 620</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2006 31"	19mmW	F,PS,OVAL,UB,NND,R=F	
<b>IC 635</b>	<b>Leo</b>		<b>Galaxy S?</b>
Apr 19 2006 31"	19mmW	F,PL,EON,UB,NND,R=F	
<b>IC 637</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2006 31"	19mmW	F,PS,R,NND,R=F	
<b>IC 638</b>	<b>Leo</b>		<b>Galaxy SAB(s)bc</b>
Apr 19 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>IC 639</b>	<b>Leo</b>		<b>Galaxy Sb</b>
Apr 19 2006 31"	19mmW	PF,PS,CE,UB,NND,R=F	
<b>IC 642</b>	<b>Leo</b>		<b>Galaxy E?</b>
Apr 19 2006 31"	19mmW	PB,PL,R,FNUC,MSB,R=G	
<b>IC 643</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2006 31"	19mmW	B,PL,CE,FNUC,MSB,R=G	
<b>IC 648</b>	<b>Leo</b>		<b>Galaxy Sc</b>
Apr 19 2006 31"	19mmW	F,PL,OVAL,NND,R=F	
<b>IC 663</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>IC 664</b>	<b>Leo</b>		<b>Galaxy S0?</b>
Apr 19 2007 31"	17mmT4	FB,L,OVAL,UB,NND,R=F	
<b>IC 666</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	B,PS,OVAL,UB,NND,R=F	
<b>IC 676</b>	<b>Leo</b>		<b>Galaxy (R)SB(r)0+</b>
Mar 08 2013 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>IC 677</b>	<b>Leo</b>		<b>Galaxy Sbc</b>
Mar 08 2013 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F	
<b>IC 683</b>	<b>Leo</b>		<b>Galaxy D</b>
Apr 15 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F	
<b>IC 694</b>	<b>UMa</b>		<b>Galaxy SBm? pec</b>
Jun 22 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F,PAIRED W/NGC-3690	

# Observations Listing by Catalog Number

<b>IC 700</b>	<b>Leo</b>	<b>Galaxy S0?</b>
Apr 26 2008 31"	17mmT4 VF,VS,OVAL,UB,NND,R=F	
<b>IC 732</b>	<b>Leo</b>	<b>Galaxy S0?</b>
May 07 2007 31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>IC 761</b>	<b>Crv</b>	<b>Galaxy S0</b>
Apr 07 2008 31"	17mmT4 B,VS,OVAL,UB,NND,R=F	
<b>IC 766</b>	<b>Crv</b>	<b>Galaxy SAB(r)0+? sp</b>
Apr 07 2008 31"	17mmT4 B,PS,EON,UB,FNUC,R=G	
<b>IC 834</b>	<b>Com</b>	<b>Galaxy S</b>
May 18 2009 31"	17mmT4 PF,CS,OVAL,FNUC.MHISB,R=F	
<b>IC 835</b>	<b>Com</b>	<b>Galaxy S?</b>
May 18 2009 31"	17mmT4 CF,CL,R,UB,NND,R=F	
<b>IC 836</b>	<b>Dra</b>	<b>Galaxy S</b>
Feb 23 2006 31"	17mmT4 PB,PL,EON,FNUC,HISB,R=G	
<b>IC 858</b>	<b>Com</b>	<b>Galaxy S0?</b>
May 12 2005 31"	19mmW MB,ML,OVAL,FNUC,MHISB,R=G	
<b>IC 859</b>	<b>Com</b>	<b>Galaxy</b>
May 12 2005 31"	19mmW MB,FS,R,FNUC,R=F	
<b>IC 982</b>	<b>Boo</b>	<b>Galaxy SA0+</b>
May 22 2006 31"	19mmW F,CS,R,NND,R=F	
<b>IC 983</b>	<b>Boo</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>Boo</b>	<b>Galaxy SAB: sp</b>
Jun 19 2020 12"	8mm Et F,S,EON,UB,NND,R=G	
<b>IC 1042</b>	<b>Vir</b>	<b>Galaxy S0?</b>
May 23 2012 18"	8.8 ES PF,PS,R,UB,NND,R=F	
<b>IC 1152</b>	<b>Her</b>	<b>Galaxy E</b>
May 21 2009 16"	11mmT6 CF,CS,R,UB,NND,R=F	
<b>IC 1153</b>	<b>Her</b>	<b>Galaxy S0</b>
May 21 2009 16"	11mmT6 CF,CS,R,UB,NND,R=F	
<b>IC 1156</b>	<b>Her</b>	<b>Galaxy E</b>
May 21 2009 16"	11mmT6 VF,CS,OVAL,NND,AV,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>1231</b>	<b>Dra</b>	<b>Galaxy Scd:</b>	
	Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F,PA=10	
<b>IC</b>	<b>1257</b>	<b>Oph</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</b>	<b>1276</b>	<b>Ser</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</b>	<b>1283</b>	<b>Sgr</b>	<b>Nebula E+R</b>	
	Sep 05 2007 8"	11mmT6	F,PL,R=F	
<b>IC</b>	<b>1288</b>	<b>Lyr</b>	<b>Galaxy SBa</b>	
	Aug 16 2009 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>1289</b>	<b>Lyr</b>	<b>Galaxy S</b>	
	Aug 16 2009 31"	17mmT4	CF,S,R,UB,NND,R=F	
<b>IC</b>	<b>1296</b>	<b>Lyr</b>	<b>Galaxy SBbc</b>	
	Aug 16 2009 31"	17mmT4	VF,S,EL,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1297</b>	<b>CrA</b>	<b>Planetary Neb</b>	
	Aug 29 2010 12"	7mm TV	PF,VS,R=F. NO CENTRAL STAR NOTED	
<b>IC</b>	<b>1298</b>	<b>Aql</b>	<b>Open Cluster</b>	<b>VS CL, 6778 P 3'</b>
	Sep 01 2008 31"	17mmT4	OPEN CLUSTER?? NOTHING ELSE THERE.	
<b>IC</b>	<b>1301</b>	<b>Cyg</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</b>	<b>1302</b>	<b>Cyg</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</b>	<b>1303</b>	<b>Cyg</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</b>	<b>1311</b>	<b>Cyg</b>	<b>Open Cluster 17.0 I 1 r n</b>	
	Jun 24 2020 12"	13mmHW	F,S,R=F	
	Aug 02 2005 8"	19mmW	NICE CLUSTER, NICER NEBULA	
<b>IC</b>	<b>1313</b>	<b>Cap</b>	<b>Galaxy (R')SB(r)ab</b>	
	Sep 28 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>1317</b>	<b>Aql</b>		<b>Galaxy E+?</b>	
	Aug 31 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F		
<b>IC</b>	<b>1318</b>	<b>Cyg</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</b>	<b>1318B</b>	<b>Cyg</b>		<b>Non-Existent</b>	
	Jul 13 2020 12"	30mmES	B,L,R=E. LP2		
<b>IC</b>	<b>1319</b>	<b>Cap</b>		<b>Galaxy Sb</b>	
	Sep 28 2008 31"	17mmT4	VF,S,R,UB,NND,R=F		
<b>IC</b>	<b>1320</b>	<b>Del</b>		<b>Galaxy SB(s)b?</b>	
	Sep 25 2006 31"	19mmW	PF,S,OVAL,NND,R=F		
<b>IC</b>	<b>1321</b>	<b>Cap</b>		<b>Galaxy (R')SB(r)bc</b>	
	Sep 28 2008 31"	17mmT4	CF,VS,R,NND,R=F		
<b>IC</b>	<b>1324</b>	<b>Cap</b>		<b>Galaxy (R')SA(rs)0/a:</b>	
	Sep 28 2008 31"	17mmT4	F,S,R,UB,NND,R=F		
<b>IC</b>	<b>1327</b>	<b>Aql</b>		<b>Galaxy S0+?</b>	
	Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>IC</b>	<b>1328</b>	<b>Cap</b>		<b>Galaxy S</b>	
	Sep 28 2008 31"	17mmT4	EF,ES,OVAL,NND,AV,R=F		
<b>IC</b>	<b>1330</b>	<b>Aqr</b>		<b>Galaxy Sc? sp</b>	
	Sep 27 2005 31"	17mmT4	VB,M<EL,EON,FNUC,MSB,R=G		
<b>IC</b>	<b>1331</b>	<b>Aqr</b>		<b>Galaxy (R')SB(r)0/a:</b>	
	Sep 27 2005 31"	17mmT4	MB,ML,EL,EON,FNUC,MSB,R=G		
<b>IC</b>	<b>1334</b>	<b>Cap</b>		<b>Galaxy SAa:</b>	<b>F, S</b>
	Sep 28 2008 31"	17mmT4	F,S,EL,OVAL,NND,R=F		
<b>IC</b>	<b>1336</b>	<b>Cap</b>		<b>Galaxy Sa?</b>	
	Sep 28 2008 31"	17mmT4	EF,ES,R,NND,AV,R=P		
<b>IC</b>	<b>1341</b>	<b>Aqr</b>		<b>Galaxy S0</b>	
	Sep 27 2005 31"	17mmT4	VF,ML,OVAL,NND,R=F		
<b>IC</b>	<b>1342</b>	<b>Aqr</b>		<b>Galaxy S?</b>	
	Sep 27 2005 31"	17mmT4	VB,VL,OVAL,FNUC,MSB,R=G		
<b>IC</b>	<b>1344</b>	<b>Aqr</b>		<b>Galaxy</b>	
	Sep 27 2005 31"	17mmT4	MB,ML,EL,EON,FNUC,MSB,R=G		

# Observations Listing by Catalog Number

<b>IC</b>	<b>1347</b>	<b>Aqr</b>		<b>Galaxy S0<sup>^</sup> pec:</b>	
	Sep 27 2005 31"	17mmT4	MB,ML,R,FNUC,R=G		
<b>IC</b>	<b>1348</b>	<b>Aqr</b>		<b>Galaxy</b>	<b>F, VS, R, BM</b>
	Sep 27 2005 31"	17mmT4	VF,MS,R,NND,R=F		
<b>IC</b>	<b>1350</b>	<b>Aqr</b>		<b>Galaxy S</b>	
	Sep 27 2005 31"	17mmT4	MB,ML,R,FNUC,MSB,R=F		
<b>IC</b>	<b>1356</b>	<b>Cap</b>		<b>Galaxy S</b>	
	Sep 28 2008 31"	17mmT4	F,VS,R,UB,NND,R=F		
<b>IC</b>	<b>1357</b>	<b>Aqr</b>		<b>Galaxy (R')SB(s)a:</b>	
	Sep 27 2005 31"	17mmT4	MF,ML,EL,NND,R=F		
<b>IC</b>	<b>1359</b>	<b>Del</b>		<b>Galaxy S?</b>	
	Sep 25 2006 31"	19mmW	FB,FS,EON,NND,R=G		
<b>IC</b>	<b>1368</b>	<b>Aqr</b>		<b>Galaxy Sa? sp</b>	
	Oct 05 2005 31"	17mmT4	VF,VS,EL,EON,NND,R=F		
<b>IC</b>	<b>1369</b>	<b>Cyg</b>		<b>Open Cluster 12.1 II 2 m</b>	
	Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>IC</b>	<b>1370</b>	<b>Aqr</b>		<b>Galaxy C</b>	
	Oct 05 2005 31"	17mmT4	VF,VS,EL,EON,NND,R=F		
	Oct 05 2005 31"	17mmT4	VF,VS,R,NND,R=F		
<b>IC</b>	<b>1373</b>	<b>Aqr</b>		<b>Galaxy</b>	
	Oct 05 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>IC</b>	<b>1374</b>	<b>Aqr</b>		<b>Galaxy S</b>	
	Oct 05 2005 31"	17mmT4	VF,VVS,OVAL,NND,R=F		
<b>IC</b>	<b>1380</b>	<b>Peg</b>		<b>Galaxy</b>	
	Sep 25 2006 31"	19mmW	PF,VS,R,NND,R=F		
<b>IC</b>	<b>1381</b>	<b>Aqr</b>		<b>Galaxy SB</b>	
	Oct 05 2005 31"	17mmT4	EF,VS,R,NND,AV,R=F		
<b>IC</b>	<b>1383</b>	<b>Aqr</b>		<b>Galaxy</b>	
	Oct 05 2005 31"	17mmT4	VF,ES,R,NND,R=F		
<b>IC</b>	<b>1384</b>	<b>Aqr</b>		<b>Galaxy Irr</b>	
	Oct 05 2005 31"	17mmT4	VF,VS,R,NND,R=F		
<b>IC</b>	<b>1385</b>	<b>Aqr</b>		<b>Galaxy SBcd</b>	
	Oct 05 2005 31"	17mmT4	VVF,VS,R,NND,AV,R=F		

# Observations Listing by Catalog Number

<b>IC</b>	<b>1386</b>	<b>Cap</b>		<b>Galaxy SA0-:</b>
	Sep 28 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>1387</b>	<b>Aqr</b>		<b>Galaxy</b>
	Oct 05 2005 31"	17mmT4	VF,ML,OVAL,NND,R=F	
	Oct 05 2005 31"	17mmT4	F,PS,OVAL,NND,R=F	
<b>IC</b>	<b>1388</b>	<b>Aqr</b>		<b>Galaxy</b>
	Oct 05 2005 31"	17mmT4	PF,VS,R,FNUC,R=F	
<b>IC</b>	<b>1390</b>	<b>Aqr</b>		<b>Galaxy B R</b>
	Oct 05 2005 31"	17mmT4	PF,PS,R,NND,AV,R=F	
<b>IC</b>	<b>1391</b>	<b>Aqr</b>		<b>Galaxy E</b>
	Oct 05 2005 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>1392</b>	<b>Cyg</b>		<b>Galaxy S0-:</b>
	Jul 08 2019 12"	8mm Et	VF,VS,OVAL,UB,NND,AV,R=P	
	Jul 23 2006 8"	7.5mmW	VF,ES,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1393</b>	<b>Cap</b>		<b>Galaxy S0</b>
	Sep 28 2008 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>IC</b>	<b>1394</b>	<b>Peg</b>		<b>Galaxy C</b>
	Sep 25 2006 31"	19mmW	F,S,R,NND,R=F	
<b>IC</b>	<b>1395</b>	<b>Peg</b>		<b>Galaxy C</b>
	Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>1396</b>	<b>Cep</b>		<b>Open Cluster II3mn</b>
	Jul 17 2020 12"	13mmHW	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>IC</b>	<b>1398</b>	<b>Peg</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</b>	<b>1399</b>	<b>Peg</b>		<b>Galaxy C</b>
	Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F	
<b>IC</b>	<b>1401</b>	<b>Aqr</b>		<b>Galaxy SAB(r)bc:</b>
	Oct 05 2005 31"	17mmT4	MF,ML,EL,NND,MHISB,R=F	
<b>IC</b>	<b>1405</b>	<b>Aqr</b>		<b>Galaxy SBab</b>
	Oct 05 2005 31"	17mmT4	F,ML,OVAL,NND,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>1406</b>	<b>Aqr</b>		<b>Galaxy</b>
	Oct 05 2005 31"	17mmT4	PF,VS,OVAL,NND,R=F	
<b>IC</b>	<b>1408</b>	<b>Cap</b>		<b>Galaxy S0</b>
	Sep 28 2008 31"	17mmT4	PF,VS,EL,OVAL,UB,NND,R=F	
<b>IC</b>	<b>1411</b>	<b>Aqr</b>		<b>Galaxy E</b>
	Oct 05 2005 31"	17mmT4	PB,ML,OVAL,BNUC,HISB,R=G	
<b>IC</b>	<b>1414</b>	<b>Peg</b>		<b>Galaxy CB</b>
	Sep 25 2006 31"	19mmW	F,L,R,NND,R=F	
<b>IC</b>	<b>1417</b>	<b>Aqr</b>		<b>Galaxy Sb? sp</b>
	Oct 05 2005 31"	17mmT4	PB,PL,EL,FNUC,R=G	
<b>IC</b>	<b>1418</b>	<b>Peg</b>		<b>Galaxy S?</b>
	Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F	
<b>IC</b>	<b>1420</b>	<b>Peg</b>		<b>Galaxy SB?</b>
	Sep 25 2006 31"	19mmW	B,PS,OVAL,NND,R=F	
<b>IC</b>	<b>1421</b>	<b>Aqr</b>		<b>Galaxy</b>
	Oct 05 2005 31"	17mmT4	PF,PS,R,NND,R=F	
<b>IC</b>	<b>1422</b>	<b>Peg</b>		<b>Galaxy</b>
	Sep 25 2006 31"	19mmW	VF,CS,R,NND,AV,R=F	
<b>IC</b>	<b>1423</b>	<b>Peg</b>		<b>Galaxy SBb</b>
	Sep 25 2006 31"	19mmW	CF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>1425</b>	<b>Peg</b>		<b>Galaxy</b>
	Sep 25 2006 31"	19mmW	VF,PS,R,NND,R=F	
<b>IC</b>	<b>1427</b>	<b>Peg</b>		<b>Galaxy E</b>
	Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1428</b>	<b>Peg</b>		<b>Galaxy</b>
	Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1433</b>	<b>Aqr</b>		<b>Galaxy S</b>
	Nov 02 2010 31"	17mmT4	CF,PS,OVAL,UB,FNUC,R=F	
<b>IC</b>	<b>1434</b>	<b>Lac</b>		<b>Open Cluster 12.0 III 2 m</b>
	Nov 16 2012 18"	11mmT6	LOOSE GROUP,15-20 STARS,R=F	
<b>IC</b>	<b>1438</b>	<b>Aqr</b>		<b>Galaxy (R')SAB(rs)a:</b>
	Oct 31 2010 12"	5.5mmN	DIFF,CF,PS,R,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>1442</b>	<b>Lac</b>	<b>Open Cluster 12.0 III 1 p</b>	
	Nov 16 2012 18"	11mmT6	TIGHT GROUP, STARS=20+,R=F	
<b>IC</b>	<b>1444</b>	<b>Peg</b>	<b>Galaxy</b>	
	Sep 25 2006 31"	19mmW	VF,CS,R,NND,AV,R=F	
<b>IC</b>	<b>1461</b>	<b>Peg</b>	<b>Galaxy S?</b>	
	Nov 03 2013 36"	17mmT4	PF,PS,OVAL,FNUC,R=F	
<b>IC</b>	<b>1478</b>	<b>Peg</b>	<b>Galaxy Sb</b>	<b>VF, S, DIF</b>
	Nov 03 2013 36"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>1487</b>	<b>Peg</b>	<b>Galaxy SB?</b>	
	Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>1495</b>	<b>Aqr</b>	<b>Galaxy Sb</b>	
	Oct 09 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1529</b>	<b>Cet</b>	<b>Galaxy (R')SA(r)0<sup>+</sup> p</b>	
	Nov 10 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>1534</b>	<b>And</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>And</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>And</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>1590</b>	<b>Cas</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>1718</b>	<b>Tri</b>	<b>Galaxy Compact</b>	
	Nov 24 2006 31"	20mmUW	PF,S,R,NND,R=F	
<b>IC</b>	<b>1727</b>	<b>Tri</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"	20mmUW	PF,CL,EON,NND,R=F	
	Nov 09 2004 8"	11mmT6	VF,EL,NND,AV,R=F	
<b>IC</b>	<b>1747</b>	<b>Cas</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>1784</b>	<b>Tri</b>	<b>Galaxy SA(rs)bc pec:</b>	
	Dec 19 2006 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	



# Observations Listing by Catalog Number

<b>IC</b>	<b>1785</b>	<b>Tri</b>		<b>Galaxy E</b>
	Dec 19 2006 31"	17mmT4	CF,PS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1789</b>	<b>Tri</b>		<b>Galaxy Sa:</b>
	Dec 19 2006 31"	17mmT4	PB,PL,ME,EON,FNUC,R=G	
<b>IC</b>	<b>1792</b>	<b>Tri</b>		<b>Galaxy Compact</b>
	Dec 19 2006 31"	17mmT4	CB,PS,R,BNUC,R=G	
<b>IC</b>	<b>1793</b>	<b>Tri</b>		<b>Galaxy Sab</b>
	Dec 19 2006 31"	17mmT4	CF,L,PME,OVAL,FNUC,R=F	
<b>IC</b>	<b>1795</b>	<b>Cas</b>		<b>Non-Existent</b>
	Sep 05 2007 8"	11mmT6	PF,PL,DIM,R=F	
<b>IC</b>	<b>1799</b>	<b>And</b>		<b>Galaxy S?</b>
	Oct 10 2012 18"	8.8 ES	F,PS,OVAL,PEXT,BNUC,R=G	
<b>IC</b>	<b>1805</b>	<b>Cas</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>1809</b>	<b>Ari</b>		<b>Galaxy (R')SB(s)ab</b>
	Oct 30 2005 31"	17mmT4	MF,MS,OVAL,NND,R=F	
<b>IC</b>	<b>1815</b>	<b>Tri</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>IC</b>	<b>1817</b>	<b>Ari</b>		<b>Galaxy Sm</b>
	Oct 30 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>IC</b>	<b>1821</b>	<b>Ari</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1832</b>	<b>Ari</b>		<b>Galaxy S0</b>
	Oct 30 2005 31"	17mmT4	VF,VS,R,NND,R=F	
<b>IC</b>	<b>1835</b>	<b>Ari</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	VF,VS,R,NND,R=F	
<b>IC</b>	<b>1838</b>	<b>Ari</b>		<b>Galaxy S</b>
	Oct 30 2005 31"	17mmT4	VF,ML,OVAL,NND,R=F	
<b>IC</b>	<b>1839</b>	<b>Ari</b>		<b>Galaxy Sb-c</b>
	Oct 30 2005 31"	17mmT4	MF,MS,EL,NND,R=F	
<b>IC</b>	<b>1841</b>	<b>Ari</b>		<b>Galaxy SBb</b>
	Oct 30 2005 31"	17mmT4	MF,MS,OVAL,NND,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>1842</b>	<b>Ari</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	MF,MS,EL,NND,R=F	
<b>IC</b>	<b>1847</b>	<b>Ari</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>IC</b>	<b>1848</b>	<b>Cas</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>Cas</b>		<b>Nebula E</b>
	Sep 05 2007 8"	11mmT6	PF,PS,R=F	
<b>IC</b>	<b>1898</b>	<b>Eri</b>		<b>Galaxy SB(s)c: sp</b>
	Nov 24 2006 8"	11mmT6	VF,S,EON,NND,AV,R=F	
<b>IC</b>	<b>1907</b>	<b>Per</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>1918</b>	<b>Tau</b>		<b>Galaxy</b>
	Dec 13 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,AV,R=F	
<b>IC</b>	<b>1924</b>	<b>Hor</b>		<b>Galaxy S</b>
	Dec 07 2005 31"	19mmW	MB,ML,OVAL,NND,MSB,R=G	
<b>IC</b>	<b>1931</b>	<b>Tau</b>		<b>Galaxy D</b>
	Dec 13 2012 18"	7mm TV	VF,VS,R,UB,NND,AV3,R=P	
<b>IC</b>	<b>1953</b>	<b>Eri</b>		<b>Galaxy SB(rs)d</b>
	Nov 24 2006 8"	11mmT6	VF,S,OVAL,NND,AV,R=F	
<b>IC</b>	<b>1995</b>	<b>Tau</b>		<b>Non-Existent</b>
	Nov 23 2006 8"	19mmW	F,PS,DIM PATCH,R=F	
<b>IC</b>	<b>2003</b>	<b>Per</b>		<b>Planetary Neb 2</b>
	Dec 18 2006 31"	20mmUW	B,VS,R,R=G	
<b>IC</b>	<b>2118</b>	<b>Eri</b>		<b>Non-Existent</b>
	Mar 06 2005 8"	25mmPL	MF,VL,LSB,R=G OIII FILTER	
<b>IC</b>	<b>2120</b>	<b>Aur</b>		<b>Planetary Neb Planetary? 5 18.2 +37 36</b>
	Nov 21 2006 8"	11mmT6	VF,VS,AV,R=F	
<b>IC</b>	<b>2149</b>	<b>Aur</b>		<b>Planetary Neb 3b+2</b>
	Nov 11 2009 12"	7.5mmW	PB,PS,R=G, NO CENTRAL STAR NOTED	
<b>IC</b>	<b>2157</b>	<b>Gem</b>		<b>Open Cluster 12.0 II 1 p</b>
	Nov 25 2006 8"	11mmT6	F,S,LOSE GROUPING,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>2163</b>	<b>CMa</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</b>	<b>2165</b>	<b>CMa</b>	<b>Planetary Neb 3b</b>	
	Dec 19 2006 31"	17mmT4	VB,PS,R=G, NO CENTRAL STAR	
<b>IC</b>	<b>2166</b>	<b>Lyn</b>	<b>Galaxy SAB(s)bc</b>	
	Nov 10 2012 18"	7mm TV	DIFF,PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>2171</b>	<b>CMa</b>	<b>Galaxy IB(s)m:</b>	
	Dec 19 2006 31"	17mmT4	PF,CS,OVAL,NND,R=F	
<b>IC</b>	<b>2172</b>	<b>Mon</b>	<b>Non-Existent</b>	
	Nov 25 2006 8"	11mmT6	F,S,R-F	
<b>IC</b>	<b>2174</b>	<b>Cam</b>	<b>Galaxy SBa</b>	
	Feb 01 2005 31"	17mmT4	MF,OVAL,PATCHY,NND,R=G	
<b>IC</b>	<b>2179</b>	<b>Cam</b>	<b>Galaxy E1-2</b>	
	Feb 01 2005 31"	17mmT4	MB,ML,EL,NUC,HISB,R=G	
<b>IC</b>	<b>2184</b>	<b>Cam</b>	<b>Galaxy I?</b>	
	Feb 01 2005 31"	17mmT4	DIFF,MB,MF,PATCH,NND,R=G	
<b>IC</b>	<b>2209</b>	<b>Cam</b>	<b>Galaxy SB(rs)b:</b>	
	Oct 12 2012 18"	7mm TV	VF,VS,R,UB,NND,AV,R=F	
<b>IC</b>	<b>2389</b>	<b>Cam</b>	<b>Galaxy SB(s)b?</b>	
	Mar 08 2013 18"	7mm TV	PF,VS,EON,,UB,NND,R=F	
<b>IC</b>	<b>2438</b>	<b>Cam</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</b>	<b>2551</b>	<b>Leo</b>	<b>Galaxy S?</b>	
	Apr 19 2006 31"	19mmW	B,S,OVAL,FNUC,MSB,R=G	
<b>IC</b>	<b>2562</b>	<b>Leo</b>	<b>Galaxy S</b>	
	Apr 19 2006 31"	19mmW	B,S,OVAL,NND,R=F	
<b>IC</b>	<b>2567</b>	<b>Leo</b>	<b>Galaxy LB</b>	
	Apr 19 2006 31"	19mmW	PF,CS,OVAL,NND,R=F	
<b>IC</b>	<b>2574</b>	<b>UMa</b>	<b>Galaxy SAB(s)m</b>	
	Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<b>IC</b>	<b>2579</b>	<b>Leo</b>	<b>Non-Existent</b>	
	Apr 19 2006 31"	19mmW	PB,PL,EON,BNUC,MSB,R=G	

# Observations Listing by Catalog Number

<b>IC</b>	<b>2583</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2006	31"	19mmW PB,PS,OVAL,BNUC,MSB,R=G	
<b>IC</b>	<b>2590</b>	<b>Leo</b>	<b>Galaxy S0</b>
Apr 19 2006	31"	19mmW PB,PL,R,BNUC,MSB,R=G	
<b>IC</b>	<b>2626</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007	31"	17mmT4 F,PS,EON,NND,R=F	
Apr 19 2006	31"	19mmW PF,PS,EON,NND,R=F	
<b>IC</b>	<b>2759</b>	<b>Leo</b>	<b>Galaxy S?</b>
Apr 26 2008	31"	17mmT4 PB,S,OVAL,UB,NND,R=F	
<b>IC</b>	<b>2914</b>	<b>Leo</b>	<b>Galaxy S</b>
May 14 2010	31"	17mmT4 CF,CS,OVAL,MEXT,NND,R=F	
<b>IC</b>	<b>2955</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007	31"	17mmT4 PB,PS,OVAL,UB,NND,R=G	
<b>IC</b>	<b>2982</b>	<b>Leo</b>	<b>Galaxy L</b>
Apr 28 2006	31"	19mmW PF,PS,OVAL,NND,R=F	
<b>IC</b>	<b>3011</b>	<b>Vir</b>	<b>Non-Existent</b>
Mar 08 2010	12"	11mmT6 PF,PS,EON,UB,NND,R=F	
<b>IC</b>	<b>3074</b>	<b>Vir</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</b>	<b>3259</b>	<b>Vir</b>	<b>Galaxy SAB(s)dm?</b>
Mar 30 2014	18"	7mm TV VF,VS,OVAL,UB,NND,AV1,R=P	
<b>IC</b>	<b>3322A</b>	<b>Vir</b>	<b>Galaxy SB(s)cd: sp</b>
May 25 2014	18"	8mm Ds PF,PS,EON,FNUC,R=F,PA=160	
<b>IC</b>	<b>3414</b>	<b>Vir</b>	<b>Galaxy SABdm?</b>
May 25 2014	18"	8mm Ds VF,VS,OVAL,UB,NND,AV1,R=P	
<b>IC</b>	<b>3446</b>	<b>Vir</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</b>	<b>3470</b>	<b>Vir</b>	<b>Galaxy E?</b>
May 14 2007	31"	17mmT4 PB,PS,R,UB,NND,R=G	
<b>IC</b>	<b>3476</b>	<b>Com</b>	<b>Galaxy IB(s)m:</b>
Jun 09 2007	8"	11mmT6 PF,PS,R,NND,R=F	
<b>IC</b>	<b>3481</b>	<b>Vir</b>	<b>Galaxy SAB0-: pec</b>
May 18 2007	31"	17mmT4 PB,PS,OVAL,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>3481A</b>	<b>Vir</b>	<b>Galaxy E pec:</b>
May 18 2007 31"	17mmT4	CF,VS,R,NND,AV,R=F	
<b>IC</b>	<b>3483</b>	<b>Vir</b>	<b>Galaxy SAB(s)b pec:</b>
May 18 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>3499</b>	<b>Vir</b>	<b>Galaxy S0/a</b>
May 14 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F	
<b>IC</b>	<b>3510</b>	<b>Vir</b>	<b>Galaxy S?</b>
May 14 2007 31"	17mmT4	CF,CS,OVAL,NND,AV,R=F	
<b>IC</b>	<b>3568</b>	<b>Cam</b>	<b>Planetary Neb 2+2a</b>
Jun 07 2010 12"	7.5mmW	PB,VS,R=F. ALMOST STELLER	
<b>IC</b>	<b>3583</b>	<b>Vir</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	
<b>IC</b>	<b>3900</b>	<b>Com</b>	<b>Galaxy SB0:</b>
May 18 2009 31"	17mmT4	PB,CS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>3913</b>	<b>Com</b>	<b>Galaxy S?</b>
May 18 2009 31"	17mmT4	DIFF,CF,VS,OVAL,NND,R=F	
<b>IC</b>	<b>4277</b>	<b>CVn</b>	<b>Galaxy</b>
May 14 2017 12"	11mmT6	B,PS,R,BNUC,R=G	
<b>IC</b>	<b>4501</b>	<b>Lib</b>	<b>Galaxy SB(s)dm</b>
Jul 06 2010 12"	7.5mmW	VF,VS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>4592</b>	<b>Sco</b>	<b>Nebula R</b>
Jul 21 2007 1.9"	12x50	PF,PL,JUST DETECTED,R=F	
<b>IC</b>	<b>4593</b>	<b>Her</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</b>	<b>4603</b>	<b>Oph</b>	<b>Nebula R</b>
Aug 24 2019 12"	17mmT4	PF,S,R=F. OIII. LP2 NOT MUCH HELP	
<b>IC</b>	<b>4604</b>	<b>Oph</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</b>	<b>4615</b>	<b>Her</b>	<b>Non-Existent</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>IC</b>	<b>4634</b>	<b>Oph</b>	<b>Planetary Neb 2a+3</b>
	Jul 31 2005 8"	7.5mmW VVF,VS,AV,R=F	
<b>IC</b>	<b>4665</b>	<b>Oph</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>IC</b>	<b>4673</b>	<b>Sgr</b>	<b>Planetary Neb 4</b>
	Sep 05 2007 8"	11mmT6 VF,VS,NO CENTRAL STAR,R=F	
<b>IC</b>	<b>4715</b>	<b>Sgr</b>	<b>Non-Existent</b>
	Jun 24 2020 12"	20mmOP 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</b>	<b>4725</b>	<b>Sgr M25</b>	<b>Open Cluster 8.0 I 3 m</b>
	Jul 13 2020 12"	13mmHW 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</b>	<b>4732</b>	<b>Sgr</b>	<b>Planetary Neb 1</b>
	Sep 05 2007 8"	11mmT6 VF,ES,AV,NO CENTRAL STAR,R=F	
<b>IC</b>	<b>4756</b>	<b>Ser</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>IC</b>	<b>4763</b>	<b>Dra</b>	<b>Galaxy S?</b>
	Sep 05 2010 12"	5.5mmN CF,PS,EON,UB,NND,R=F,PA=165	
<b>IC</b>	<b>4772</b>	<b>Lyr</b>	<b>Galaxy C</b>
	Aug 16 2009 31"	17mmT4 VF,S,OVAL,UB,NND,R=F	
<b>IC</b>	<b>4776</b>	<b>Sgr</b>	<b>Planetary Neb 2a</b>
	Aug 24 2012 18"	8.8 ES PF,PS, R=F, OIII FILTER,	
<b>IC</b>	<b>4846</b>	<b>Aql</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	

# Observations Listing by Catalog Number

<b>IC 4867</b>	<b>Cyg</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 4954</b>	<b>Vul</b>	<b>Nebula R</b>
Nov 16 2012 18"	11mmT6 FAINT,SMALL,R=F	
<b>IC 4996</b>	<b>Cyg</b>	<b>Open Cluster 8.0 II 3 p n APPROX 15 STARS</b>
Jun 26 2004 8"	25mmPL CLOUDS EARLY - GIBBOUS MOON	
<b>IC 4997</b>	<b>Sge</b>	<b>Planetary Neb 1</b>
Sep 01 2008 31"	17mmT4 PB,ES,R=F. NO CENTRAL STAR	
<b>IC 5050</b>	<b>Aqr</b>	<b>Galaxy SAB(r)b:</b>
Sep 27 2005 31"	17mmT4 MF,VS,OVAL,NND,R=G	
<b>IC 5067</b>	<b>Cyg</b>	<b>Nebula EN</b>
Jun 24 2020 12"	13mmHW B,L,R=G. LP2	
Jul 24 2006 8"	25mmPL PF,CL,R=F	
<b>IC 5068</b>	<b>Cyg</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>Cyg</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>Cyg</b>	<b>Nebula E</b>
Nov 13 2007 8"	11mmT6 PF,PS,HINT OF NEBULOSITY,R=F	
<b>IC 5078</b>	<b>Cap</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 5080</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW PF,PS,R,NND,R=F	
<b>IC 5090</b>	<b>Aqr</b>	<b>Galaxy Sa pec?</b>
Sep 27 2005 31"	17mmT4 VB,ML,OVAL,RNUC,R=G	
<b>IC 5111</b>	<b>Aqr</b>	<b>Galaxy Sa</b>
Oct 05 2005 31"	17mmT4 EF,VS,OVAL,NND,AV,R=F	
<b>IC 5117</b>	<b>Cyg</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	

# Observations Listing by Catalog Number

<b>IC</b>	<b>5122</b>	<b>Cap</b>	<b>Galaxy S0:</b>
Sep 28 2008	31"	17mmT4 F,S,EON,NND,AV,R=P	
<b>IC</b>	<b>5146</b>	<b>Cyg</b>	<b>Nebula E</b>
Jul 13 2020	12"	13mmHW F,S,R=G. LP2 BEST. OIII GOOD	
Jun 24 2020	12"	20mmOP 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>IC</b>	<b>5180</b>	<b>Lac</b>	<b>Galaxy E:</b>
Sep 14 2012	18"	7mm TV VF,PS,UB,NND,AV1,R=F	
<b>IC</b>	<b>5217</b>	<b>Lac</b>	<b>Planetary Neb 2</b>
Nov 16 2012	18"	11mmT6 VS,VF,R=F	
<b>IC</b>	<b>5254</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013	36"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>5258</b>	<b>Peg</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</b>	<b>5274</b>	<b>Peg</b>	<b>Galaxy S0:</b>
Nov 02 2010	31"	17mmT4 PF,PS,R,FNUC,R=G	
<b>IC</b>	<b>5276</b>	<b>Peg</b>	<b>Galaxy S</b>
Nov 02 2010	31"	17mmT4 CF,CS,OVAL,MEXT,UB,NND,R=F	
<b>IC</b>	<b>5285</b>	<b>Peg</b>	<b>Galaxy S?</b>
Oct 15 2006	31"	19mmW PB,PL,OVAL,FNUC,R=G	
<b>IC</b>	<b>5293</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010	31"	17mmT4 PF,CS,OVAL,UB,NND,R=F	
<b>IC</b>	<b>5295</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010	31"	17mmT4 CF,ES,OVAL,UB,NND,R=F	
<b>IC</b>	<b>5296</b>	<b>Peg</b>	<b>Galaxy SBb</b>
Nov 02 2010	31"	17mmT4 DIFF,VF,CS,R,UB,NND,R=F	
<b>IC</b>	<b>5297</b>	<b>Peg</b>	<b>Galaxy C</b>
Nov 02 2010	31"	17mmT4 PF,ES,OVAL,FNUC,R=F	
<b>IC</b>	<b>5298</b>	<b>Peg</b>	<b>Galaxy S?</b>
Nov 02 2010	31"	17mmT4 PF,PS,R,UB,NND,R=F	
<b>IC</b>	<b>5305</b>	<b>Peg</b>	<b>Galaxy S</b>
Nov 03 2013	36"	17mmT4 PF,PS,OVAL,UB,NND,R=F	



# Observations Listing by Catalog Number

<b>IC</b>	<b>5309</b>	<b>Psc</b>	<b>Galaxy Sb</b>
	Nov 03 2013 36"	17mmT4	PF,PS,EON,UB,NND,AV,R=F,PA=34
<b>IC</b>	<b>5312</b>	<b>Peg</b>	<b>Galaxy Sb</b>
	Oct 30 2005 31"	17mmT4	MF,MS,R,NND,R=F
<b>IC</b>	<b>5314</b>	<b>Peg</b>	<b>Galaxy C</b>
	Oct 30 2005 31"	17mmT4	MF,MS,R,NND,R=F
<b>IC</b>	<b>5315</b>	<b>Peg</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>5369</b>	<b>And</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>And</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>And</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>And</b>	<b>Galaxy Sb</b>
	Oct 12 2012 18"	7mm TV	PF,PS,OVAL,FNUC,R=F
<b>IC</b>	<b>5376</b>	<b>And</b>	<b>Galaxy Sab</b>
	Oct 12 2012 18"	7mm TV	PF,PS,EON,UB,NND,R=F,REAL THIN
<b>IC</b>	<b>5381</b>	<b>Peg</b>	<b>Galaxy Sab? sp</b>
	Oct 30 2008 16"	17mmT4	CF,CS,OVAL,NND,AV,R=F
<b>J</b>	<b>320</b>	<b>Ori</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>KEMBI 1</b>	<b>Cam</b>	<b>Open Cluster</b>	
	Nov 26 2006 1.9"	12x50	BRIGHT-STRING,R=F
<b>KING 14</b>	<b>Cas</b>	<b>Open Cluster</b>	
	Jul 26 2019 12"	17mm O	SAME FOV AS NGC-133 & NGC-145

# Observations Listing by Catalog Number

M	45	Tau	M45	Open Cluster
	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>0007+2733</b>	<b>Peg</b>		<b>Galaxy</b>
	Nov 02 2005 31"	19mmW	VF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>0009+3316</b>	<b>And</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>MAC</b>	<b>0048+3157</b>	<b>And</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
<b>MAC</b>	<b>0124+3319</b>	<b>Psc</b>		<b>Galaxy</b>
	Oct 30 2005 31"	17mmT4	MF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>0135+3417</b>	<b>Tri</b>		<b>Galaxy</b>
	Nov 24 2006 31"	20mmUW	VF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>0137+3309</b>	<b>Tri</b>		<b>Galaxy</b>
	Nov 24 2006 31"	20mmUW	VF,VS,R,NND,R=F	
<b>MAC</b>	<b>0147+3523</b>	<b>Tri</b>		<b>Galaxy</b>
	Nov 24 2006 31"	20mmUW	VF,PS,OVAL,NND,R=F	
<b>MAC</b>	<b>0149+3237</b>	<b>Tri</b>		<b>Galaxy</b>
	Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=P	
<b>MAC</b>	<b>0205+3043</b>	<b>Tri</b>		<b>Galaxy</b>
	Nov 02 2005 31"	19mmW	PF,FL,EL,OVAL,NND,AV,R=F	
<b>MAC</b>	<b>0206+3107</b>	<b>Tri</b>		<b>Galaxy</b>
	Nov 02 2005 31"	19mmW	VF,VS,EL,NND,AV,R=F	
<b>MAC</b>	<b>0214+3051</b>	<b>Tri</b>		<b>Galaxy</b>
	Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>0214+3051</b>	<b>Tri</b>		<b>Galaxy</b>
	Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>MAC</b>	<b>0215+3041</b>	<b>Tri</b>		<b>Galaxy</b>
	Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	

## Observations Listing by Catalog Number

<b>MAC 0215+3047</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,PS,OVAL,NND,AV,R=F	
<b>MAC 0216+2837</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,PS,EON,NND,AV,R=F	
<b>MAC 0217+3220</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,PS,OVAL,NND,R=F	
<b>MAC 0219+3424</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 PF,PS,R,NND,AV,R=F	
<b>MAC 0219+3433</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,PS,OVAL,NND,R=F	
<b>MAC 0219+3437</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,PS,OVAL,NND,R=F	
<b>MAC 0227+2802</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 0228+3118</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,PS,R,NND,AV,R=F	
<b>MAC 0234+3247</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 PF,CS,R,NND,AV,R=F	
<b>MAC 0234+3253</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 0237+0716</b>	<b>Cet</b>	<b>Galaxy</b>
Dec 12 2012 36"	17mmT4 VF,VS,R,NND,AV2,R=F	
<b>MAC 0244+1924</b>	<b>Ari</b>	<b>Galaxy</b>
Oct 30 2005 31"	17mmT4 VF,VS,R,NND,R=F	
<b>MAC 0245+1855</b>	<b>Ari</b>	<b>Galaxy</b>
Oct 30 2005 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 0310+4200</b>	<b>Per</b>	<b>Galaxy</b>
Dec 13 2012 18"	8.8 ES VFR,VS,R,NND,AV3,R=P	
<b>MAC 0405+2526</b>	<b>Tau</b>	<b>Galaxy</b>
Dec 18 2006 31"	20mmUW VF,VS,EL,OVAL,NND,R=F	
<b>MAC 0447-0208</b>	<b>Ori</b>	<b>Galaxy</b>
Feb 03 2005 31"	11mmT6 MF,MS,EL,FNUC,R=F	

## Observations Listing by Catalog Number

<b>MAC 0448-0134 Ori</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>MAC 0511-1505 Lep</b>	<b>Galaxy</b>
Feb 20 2006 31" 17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 0710+4956 Lyn</b>	<b>Galaxy</b>
Feb 01 2005 31" 17mmT4 VF,MS,R,NND,AV,R=F	
<b>MAC 0711+4949 Lyn</b>	<b>Galaxy</b>
Feb 01 2005 31" 17mmT4 MB,S,OVAL,NND,R=G	
<b>MAC 0711+5007 Lyn</b>	<b>Galaxy</b>
Feb 01 2005 31" 17mmT4 MF,S,EL,NND,R=F	
<b>MAC 1012+1243 Leo</b>	<b>Galaxy</b>
Apr 15 2007 31" 17mmT4 PF,PS,R,NND,R=F	
<b>MAC 1013+1702 Leo</b>	<b>Galaxy</b>
Apr 15 2007 31" 17mmT4 F,PS,EON,NND,R=F	
<b>MAC 1018+0708 Leo</b>	<b>Galaxy</b>
Apr 19 2006 31" 19mmW VF,VS,R,NND,AV,R=F	
<b>MAC 1018+2742 Leo</b>	<b>Galaxy</b>
Apr 21 2007 31" 17mmT4 CF,CS,R,NND,AV,R=F	
<b>MAC 1021+1927 Leo</b>	<b>Galaxy</b>
Apr 21 2007 31" 17mmT4 F,S,OVAL,NND,AV,R=F	
<b>MAC 1022+1947 Leo</b>	<b>Galaxy</b>
Apr 21 2007 31" 17mmT4 F,CS,OVAL,NND,AV,R=F	
<b>MAC 1023+1056 Leo</b>	<b>Galaxy</b>
Apr 19 2006 31" 19mmW VF,VS,R,NND,AV,R=F	
<b>MAC 1023+2001 Leo</b>	<b>Galaxy</b>
Apr 21 2007 31" 17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>MAC 1039+4754 UMa</b>	<b>Galaxy</b>
Feb 23 2006 31" 17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1043+4053 UMa</b>	<b>Galaxy</b>
Feb 23 2006 31" 17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1044+1403 Leo</b>	<b>Galaxy</b>
Apr 07 2008 31" 17mmT4 VF,VS,EON,NND,AV,R=F	

## Observations Listing by Catalog Number

<b>MAC 1044+1406</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 07 2008 31"	17mmT4 PF,VS,OVAL,NND,R=F	
<b>MAC 1047+1238</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 13 2005 31"	17mmT4 MF,MS,EL,OVAL,ND,R=F	
<b>MAC 1047+1246</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 13 2005 31"	17mmT4 MF,MS,OVAL,NND,R=F	
<b>MAC 1049+1616</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 07 2008 31"	17mmT4 PF,PS,OVAL,NND,LSB,R=F	
<b>MAC 1049+1617</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 07 2008 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1104+0501</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1109+2157</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 PF,VS,OVAL,UB,NND,R=F	
<b>MAC 1109+2158</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 PF,VS,EON,UB,NND,R=F	
<b>MAC 1110+2158</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 PF,CS,OVAL,UB,NND,R=F	
<b>MAC 1110+2206</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 1110+2208</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 1110+2213</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1118+0937</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 15 2007 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1120+0255</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 15 2007 31"	17mmT4 VF,VS,R,NND,R=F	
<b>MAC 1120-0558</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 15 2007 31"	17mmT4 VF,VS,EON,NND,AV,R=F	
<b>MAC 1120+1340</b>	<b>Leo</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 FB,FL,OVAL,NND,R=G	

## Observations Listing by Catalog Number

<b>MAC 1132+5307</b>	<b>UMa</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 PF,VS,R,NND,R=F	
<b>MAC 1133+5307</b>	<b>UMa</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,RF=F	
<b>MAC 1133+5307</b>	<b>UMa</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1133+5308</b>	<b>UMa</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1141+1016</b>	<b>Vir</b>	<b>Galaxy</b>
May 18 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1145+1952</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 VF,PS,R,NND,AV,R=F	
<b>MAC 1145+2001</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1145+2026</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>MAC 1146+1944</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>MAC 1146+2026</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 PF,PS,EON,NND,V,R=F	
<b>MAC 1150+2111</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 CF,PS,EON,UB,NND,R=F	
<b>MAC 1150+2116</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 PF,CS,OVAL,UB,NND,R=F	
<b>MAC 1150+2119</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1207-1408</b>	<b>Crv</b>	<b>Galaxy</b>
Apr 07 2008 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1231+0036</b>	<b>Vir</b>	<b>Galaxy</b>
May 14 2007 31"	17mmT4 CF,VS,OVAL,NND,R=F	
<b>MAC 1231+0353</b>	<b>Vir</b>	<b>Galaxy</b>
May 14 2007 31"	17mmT4 VF,CS,EON,NND,AV,R=P	

## Observations Listing by Catalog Number

<b>MAC 1234-0727</b>	<b>Vir</b>	<b>Galaxy</b>
May 14 2007 31"	17mmT4 VF,CS,R,NND,AV,R=F	
<b>MAC 1234-0732</b>	<b>Vir</b>	<b>Galaxy</b>
May 14 2007 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>MAC 1236+7415</b>	<b>Dra</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1237+7417</b>	<b>Dra</b>	<b>Galaxy</b>
Feb 23 2006 31"	17mmT4 VF,FS,R,NND,R=F	
<b>MAC 1252+1001</b>	<b>Vir</b>	<b>Galaxy</b>
May 18 2007 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1253+0956</b>	<b>Vir</b>	<b>Galaxy</b>
May 18 2007 31"	17mmT4 EF,VS,R,NND,AV,R=F	
<b>MAC 1255+2736</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 DIFF,VF,VS,OVAL,NND,R=F	
<b>MAC 1255+2756</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1255+2815</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1255+2824</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 EF,VS,R,NND,AV,R=P	
<b>MAC 1255+2900</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1256+2725</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 PF,PS,OVAL,FNUC,R=F	
<b>MAC 1256+2726</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 VF,VS,R,NND,R=F	
<b>MAC 1256+2730</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1256+2732</b>	<b>Com</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>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 PF,VS,NND,UB,R=F	

## Observations Listing by Catalog Number

<b>MAC 1256+2741 Com</b>	<b>Galaxy</b>
May 18 2009 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 1256+2743 Com</b>	<b>Galaxy</b>
May 18 2009 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 1256+2749 Com</b>	<b>Galaxy</b>
May 18 2009 31" 17mmT4 PB,CS,R,FNUC,R=F	
<b>MAC 1256+2750 Com</b>	<b>Galaxy</b>
May 18 2009 31" 17mmT4 PB,CS,R,FNUC,R=F	
<b>MAC 1256+2802 Com</b>	<b>Galaxy</b>
May 18 2009 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 1256+2818 Com</b>	<b>Galaxy</b>
May 18 2009 31" 17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1310+1817 Com</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,ML,R,NND,AV,R=F	
<b>MAC 1310+1818 Com</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,ML,EL,EON,NND,R=F	
<b>MAC 1310+1825 Com</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1311+1825 Com</b>	<b>Galaxy</b>
May 12 2005 31" 12mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1314+1700 Com</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW MB,ML,OVAL,FNUC,R=G	
<b>MAC 1354+4015 CVn</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW MB,VS,R,FNUC,R=F	
<b>MAC 1354+4028 CVn</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,VS,OVAL,NND,R=F	
<b>MAC 1355+4002 CVn</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1356+3817 CVn</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,VS,OVAL,NND,R=F	
<b>MAC 1356+3818 CVn</b>	<b>Galaxy</b>
May 12 2005 31" 19mmW VF,VS,R,NND,AV,R=F	



## Observations Listing by Catalog Number

<b>MAC 1356+3818</b>	<b>CVn</b>	<b>Galaxy</b>
May 12 2005 31"	19mmW VF,MS,EL,OVAL,NND,R=F	
<b>MAC 1356+3821</b>	<b>CVn</b>	<b>Galaxy</b>
May 12 2005 31"	19mmW MF,MS,OVAL,NND,R=F	
<b>MAC 1356+3825</b>	<b>CVn</b>	<b>Galaxy</b>
May 12 2005 31"	19mmW VF,MS,R,NND,AV,R=F	
<b>MAC 1356+3829</b>	<b>CVn</b>	<b>Galaxy</b>
May 12 2005 31"	19mmW VF,VS,R,NND,AV,R=F	
<b>MAC 1423+4015</b>	<b>Boo</b>	<b>Galaxy</b>
May 22 2006 31"	19mmW VF,VS,R,NND,AV,R=F	
<b>MAC 1432+3557</b>	<b>Boo</b>	<b>Galaxy</b>
Jun 05 2011 31"	17mmT4 CF,CS,OVAL,UB,NND,R=F	
<b>MAC 1432+3601</b>	<b>Boo</b>	<b>Galaxy</b>
Jun 05 2011 31"	17mmT4 VF,VS,OVAL,UB,NND,AV,R=P	
<b>MAC 1644+4005</b>	<b>Her</b>	<b>Galaxy</b>
Jul 16 2009 16"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 1828+3344</b>	<b>Lyr</b>	<b>Galaxy</b>
Aug 16 2009 31"	17mmT4 PF,CS,R,UB,NND,R=F	
<b>MAC 1828+3413</b>	<b>Lyr</b>	<b>Galaxy</b>
Aug 16 2009 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 1830+3403</b>	<b>Lyr</b>	<b>Galaxy</b>
Aug 16 2009 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 2033+0659</b>	<b>Del</b>	<b>Galaxy</b>
Aug 31 2008 31"	17mmT4 VF,VS,R,NND,R=F	
<b>MAC 2033+0951</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW VF,VS,R,NND,AV,R=F	
<b>MAC 2059-1421</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 2100-1425</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,FNUC,MSB,R=F	
<b>MAC 2100-1428</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	

## Observations Listing by Catalog Number

<b>MAC 2101-1315</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,ML,R,FNUC,MSB,R=G	
<b>MAC 2101-1315/</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,ML,R,FNUC,MSB,R=G	
<b>MAC 2101-1316</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,LS,R,NND,MSB,R=F	
<b>MAC 2102+1913</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW PF,VS,OVAL,NND,AV,R=F	
<b>MAC 2103-1124</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2104-1122</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F, 17TH MAG.	
<b>MAC 2105-1037</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2105-1040</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2107+1802</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW PF,PS,OVAL,NND,R=F	
<b>MAC 2110-0351</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 MB,ML,OVAL,FNUC,R=F	
<b>MAC 2116-0046</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 13 2007 31"	17mmT4 VF,ES,R,NND,AV,R=F	
<b>MAC 2120-0448</b>	<b>Aqr</b>	<b>Galaxy</b>
Oct 05 2005 31"	17mmT4 VF,VVS,R,NND,AV,R=F	
<b>MAC 2131+0230</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 13 2007 31"	17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>MAC 2142-0646</b>	<b>Aqr</b>	<b>Galaxy</b>
Oct 05 2005 31"	17mmT4 VVF,VS,R,NND,AV,R=F	
<b>MAC 2144-0632</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 13 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2153+0008</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 13 2007 31"	17mmT4 VF,VS,OVAL,NND,R=F	

## Observations Listing by Catalog Number

<b>MAC 2153+0211</b>	<b>Aqr</b>	<b>Galaxy</b>
Oct 05 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2159-1630</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 13 2007 31"	17mmT4 VF,ES,R,NND,AV,R=F	
<b>MAC 2202-0955</b>	<b>Aqr</b>	<b>Galaxy</b>
Oct 05 2005 31"	17mmT4 PF,VS,R,NND,R=F	
<b>MAC 2207+1014</b>	<b>Peg</b>	<b>Galaxy</b>
Sep 14 2012 36"	17mmT4 VF,VS,OVAL,MEXT,UB,NND,R=F	
<b>MAC 2214+1352</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 23 2008 31"	17mmT4 VF,VS,OVAL,NND,AV,R=P	
<b>MAC 2221+3632</b>	<b>Lac</b>	<b>Galaxy</b>
Sep 11 2007 31"	17mmT4 VF,ES,R,NND,AV,R=F	
<b>MAC 2221+3635</b>	<b>Lac</b>	<b>Galaxy</b>
Sep 11 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2223+3611</b>	<b>Lac</b>	<b>Galaxy</b>
Sep 11 2007 31"	17mmT4 VF,ES,R,NND,V,R=F	
<b>MAC 2238+2340</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 21 2006 31"	20mmUW VF,VS,R,NNUC,AV,R=F	
<b>MAC 2243+3001</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,VS,OVAL,UB,NND,R=F,AV4	
<b>MAC 2255+1910</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,ES,OVAL,UB,NND,R=F,AV1	
<b>MAC 2256+1747</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,VS,OVAL,UB,NND,R=F,AV2	
<b>MAC 2257+1454</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 VF,VS,R,UB,NND,R=F	
<b>MAC 2257+1457</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 VF,VS,R,NND,AV2,R=F	
<b>MAC 2259+1755</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,ES,OVAL,UB,NND,R=F	
<b>MAC 2259+1757</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,VS,R,UB,NND,R=F	

## Observations Listing by Catalog Number

<b>MAC 2300+1850</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,VS,R,UB,NND,R=F,AV1	
<b>MAC 2300+1903</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,VS,R,UB,NND,R=F,AV1	
<b>MAC 2301+1842</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,VS,R,UB,NND,R=F,AV1	
<b>MAC 2301+1852</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>MAC 2307+2813</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 15 2006 31"	19mmW VF,VS,EL,OVAL,NND,AV,R=F	
<b>MAC 2307+3356</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 15 2006 31"	19mmW VF,VS,OVAL,NND,R=F	
<b>MAC 2315+2540</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,ES,R,UB,NND,R=F	
Nov 02 2010 31"	17mmT4 CF,VS,R,UB,NND,R=F	
<b>MAC 2316+2537</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,EES,OVAL,UB,NND,R=F	
<b>MAC 2319+0930</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 VF,VS,OVAL,UB,NND,AV,R=F	
<b>MAC 2320+2712</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 30 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2320+2714</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 30 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2321+0815</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 30 2005 31"	17mmT4 F,VS,OVAL,FNUC,R=F	
<b>MAC 2321+2551</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,ES,OVAL,UB,NND,R=F	
Oct 30 2005 31"	17mmT4 VF,VS,R,NND,R=F	
<b>MAC 2323+1649</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 EF,ES,OVAL,NND,R=F	
<b>MAC 2323+1654</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>MAC 2323+1656</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 CF,CS,OVAL,NND,R=F	

## Observations Listing by Catalog Number

<b>MAC 2324+0929 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,R,AV,R=F	
<b>MAC 2324+0931 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2324+0932 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,R,NND,AV,R=F	
<b>MAC 2324+1357 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,AV,R=P	
<b>MAC 2324+1357 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2324+1358 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,R=F	
<b>MAC 2324+1359 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,R=F	
<b>MAC 2324+1430 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 CF,CS,OVAL,NND,R=F	
<b>MAC 2324+1437 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>MAC 2324+1438 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,CS,OVAL,NND,R=F	
<b>MAC 2324+1438 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 PF,CS,OVAL,NND,R=F	
<b>MAC 2324+1439 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2324+1440 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,OVAL,NND,R=F	
<b>MAC 2324+1440 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 VF,VS,R,NND,R=F	
<b>MAC 2324+1647 Peg</b>	<b>Galaxy</b>
Oct 25 2006 31" 17mmT4 PF,PS,OVAL,FNUC,R=G	
<b>MAC 2340+2710 Peg</b>	<b>Galaxy</b>
Nov 03 2013 36" 17mmT4 VF,VS,R,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>MAC 2345+2728</b>	<b>Peg</b>	<b>Galaxy</b>	
Nov 03 2013 36"	17mmT4 VF,VS,OVAL,NND,R=F		
<b>MCG +1-14-37</b>	<b>Ori</b>	<b>Galaxy</b>	
Sep 23 2004 8"	7.5mmW B,OVAL,FNUC,R=G		
<b>MEL 25</b>	<b>Tau</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>MERR 2-2</b>	<b>FIX</b>	<b>Planetary Neb 1</b>	
Jul 24 2006 8"	7.5mmW VF,VS,R,AV,R=F		
<b>MINK 1-70</b>	<b>Aql</b>	<b>Planetary Neb 1</b>	
Aug 12 2005 8"	7.5mmW VF,VS,AV,R=F		
<b>MINK 1-74</b>	<b>FIX</b>	<b>Planetary Neb 1</b>	
Aug 12 2005 8"	7.5mmW VF,VS,AV,R=F		
<b>MINK 3-34</b>	<b>FIX</b>	<b>Planetary Neb 2</b>	
Jul 03 2005 8"	11mmT6 DIFF,VF,VS,AV,R=F		
<b>NGC 1</b>	<b>Peg</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>Peg</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 3</b>	<b>Psc</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 5</b>	<b>And</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 9</b>	<b>Peg</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 11</b>	<b>And</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 12</b>	<b>Psc</b>	<b>H868-3</b>	<b>Galaxy SAB(rs)c: 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		

# Observations Listing by Catalog Number

<b>NGC 13</b>	<b>And</b>	<b>H866-3</b>	<b>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 14</b>	<b>Peg</b>	<b>H591-2</b>	<b>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>Peg</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>Peg</b>	<b>H15-4</b>	<b>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 17</b>	<b>Cet</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 20</b>	<b>And</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>And</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 22</b>	<b>Peg</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>Peg</b>	<b>H147-3</b>	<b>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 24</b>	<b>ScI</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 26</b>	<b>Peg</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 27</b>	<b>And</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>And</b>	<b>H853-2</b>	<b>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 35</b>	<b>Cet</b>		<b>Galaxy Sb</b>	<b>EEF,PS,R</b>
Dec 12 2012 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 36</b>	<b>Psc</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>Psc</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 39</b>	<b>And</b>	<b>H861-3</b>	<b>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 40</b>	<b>Cep</b>	<b>H58-4</b>	<b>Planetary Neb 3b+3</b>	<b>F,VS,R,VSMBM,*12SP</b>
Jul 17 2020 12"	8mm Et	F,PS,R=G. LP2, SAW THE CENTRAL STAR		
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 41</b>	<b>Peg</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>Peg</b>		<b>Galaxy S0-:</b>	<b>F,VS,STELL</b>
Nov 02 2005 31"	19mmW	MB,FS,OVAL,NND,R=F		
<b>NGC 43</b>	<b>And</b>		<b>Galaxy SB0</b>	<b>EF,*12NP 45"</b>
Sep 09 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F		
<b>NGC 45</b>	<b>Cet</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>Cet</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 48</b>	<b>And</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>And</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 50</b>	<b>Cet</b>		<b>Galaxy S0- pec</b>	<b>VF</b>
Dec 12 2012 36"	17mmT4	PF,PS,R,BNUC,R=F		
<b>NGC 51</b>	<b>And</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 52</b>	<b>Peg</b>	<b>H183-3</b>	<b>Galaxy S?</b>	<b>VF,S,E</b>
Nov 02 2005 31"	19mmW	PF,PL,EON,NND,R=F		
<b>NGC 57</b>	<b>Psc</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		



## Observations Listing by Catalog Number

<b>NGC 62</b> Nov 10 2012 18"	<b>Cet</b> 7mm TV PF,VS,OVAL,UB,NND,R=F	<b>Galaxy (R)SB(r)a:</b>	<b>F,VS,R,GLBM</b>
<b>NGC 63</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6 PF,PS,R,UB,NND,R=F	<b>Galaxy S pec</b>	<b>PF,S,R,SBM</b>
<b>NGC 64</b> Nov 10 2012 18"	<b>Cet</b> 7mm TV VF,VS,OVAL,UB,NND,R=F	<b>Galaxy SB(s)bc</b>	<b>EEF,VS,R,VDIFFIC</b>
<b>NGC 67</b> Oct 12 2012 18"	<b>And</b> 7mm TV VF,VS,R,UB,NND,R=F	<b>Galaxy E:</b>	<b>EF,VS,R</b>
<b>NGC 68</b> Oct 12 2012 18" Aug 24 2012 18"	<b>And H16-5</b> 7mm TV VF,VS,R,UB,NND,AV2,R=P 5mm TV VF,PS,R,UB,NND,R=F	<b>Galaxy SA0-</b>	<b>EF,L,3OR4*+NEB</b>
<b>NGC 69</b> Oct 12 2012 18"	<b>And</b> 7mm TV VF,VS,R,UB,NND,R=F	<b>Galaxy SB(s)0-</b>	<b>EF,VS,R,</b>
<b>NGC 70</b> Oct 12 2012 18" Aug 24 2012 18"	<b>And</b> 7mm TV VF,S,OVAL,UB,NND,R=F 5mm TV VF,PS,OVAL,UB,NND,AV,R=F	<b>Galaxy SA(rs)c</b>	<b>EF,VS,R,BET2F*</b>
<b>NGC 71</b> Oct 12 2012 18" Aug 24 2012 18"	<b>And</b> 7mm TV VF,PS,OVAL,UB,NND,R=F 5mm TV PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SA0- pec:</b>	<b>EF,VS,R</b>
<b>NGC 72</b> Oct 12 2012 18"	<b>And</b> 7mm TV PF,PS,R,UB,NND,R=P	<b>Galaxy SB(rs)ab</b>	<b>EF,VS,R</b>
<b>NGC 72A</b> Oct 12 2012 18"	<b>And</b> 7mm TV VF,VS,R,UB,NND,R=F	<b>Galaxy E3:</b>	
<b>NGC 74</b> Oct 12 2012 18"	<b>And</b> 7mm TV VF,VS,OVAL,MEXT,UB,AV1,R=F	<b>Galaxy Sb</b>	<b>EF,S,E,LAST OF 6</b>
<b>NGC 76</b> Sep 12 2010 12"	<b>And</b> 7mm TV CF,CS,OVAL,UB,NND,R=F,PA=95	<b>Galaxy S?</b>	<b>VF,S,BM</b>
<b>NGC 80</b> Oct 26 2014 12" Nov 08 2010 12" Oct 17 2004 8"	<b>And</b> 11mmT6 PF,PS,R,UB,NND,R=F 5.5mmN VF,CS,R,UB,NND,AV2,R=F 7.5mmW VF,OVAL,NND,AV,R=F	<b>Galaxy SA0-:</b>	<b>F,S,R,PSBM</b>
<b>NGC 83</b> Oct 26 2014 12" Oct 17 2004 8"	<b>And</b> 11mmT6 PF,PS,R,UB,NND,R=F 7.5mmW VF,OVAL,NND,AV,R=F	<b>Galaxy E</b>	<b>E,BIN,3B*NR</b>

# Observations Listing by Catalog Number

<b>NGC 90</b>	<b>And</b>		<b>Non-Existent</b>	
Oct 26 2014 12"	11mmT6	VF,VS,OVAL,VEXT,UB,NND,R=R		
<b>NGC 91</b>	<b>And</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>And</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 95</b>	<b>Psc</b>	<b>H257-2</b>	<b>Galaxy SAB(rs)c pec</b>	<b>F,PL,R,GBM</b>
Nov 28 2010 12"	7mm TV	PF,PS,OVAL,PEXT,FNUC,R=F		
<b>NGC 97</b>	<b>And</b>		<b>Galaxy E:</b>	<b>F,VS,R,GBM</b>
Aug 24 2012 18"	5mm TV	PF,PS,R,UB,NND,R=F		
Sep 09 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F		
<b>NGC 103</b>	<b>Cas</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 108</b>	<b>And</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 110</b>	<b>Cas</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 125</b>	<b>Psc</b>	<b>H869-3</b>	<b>Galaxy (R)SA0+ pec:</b>	<b>VF,S,BM,D*SP</b>
Oct 09 2007 8"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 128</b>	<b>Psc</b>	<b>H854-2</b>	<b>Galaxy S0 pec sp</b>	<b>PB,PS,LE2,BM</b>
Oct 09 2007 8"	11mmT6	PB,PS,OVAL,UB,NND,R=F		
<b>NGC 129</b>	<b>Cas</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 132</b>	<b>Cet</b>	<b>H855-2</b>	<b>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 133</b>	<b>Cas</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>Cas</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			

# Observations Listing by Catalog Number

<b>NGC 137</b> Oct 07 2010 12"	<b>Psc</b> 5.5mmN	<b>H471-2</b> PF,CS,,R,UB,NND,R=F	<b>Galaxy S0</b>	<b>F,IF,LBM</b>
<b>NGC 140</b> Aug 24 2012 18"	<b>And</b> 5mm TV	VF,PS,R,UB,NND,AV3,R=P	<b>Galaxy Scd:</b>	<b>VF,S,R,GBM</b>
<b>NGC 145</b> Jul 26 2019 12"	<b>Cet</b> 17mm O	15+ MEMBERS. SAME FOV AS NGC-133 & KING 14	<b>Galaxy SB(s)dm</b>	<b>F,PL,VLE,VGBM,*8 F5'</b>
<b>NGC 146</b> Sep 05 2007 8"	<b>Cas</b> 11mmT6	B,S,R=F	<b>Open Cluster 11.6 II 2 p</b>	<b>CL,PL,LC,*11-12,D*</b>
<b>NGC 147</b> Sep 02 2019 12" Aug 21 2004 8"	<b>Cas</b> 11mmT6	DIFF,VF,S,OVAL,UB,NND,R=F CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Galaxy E5 pec</b>	<b>VF,VL,IR,GSMBM*11</b>
<b>NGC 149</b> Aug 24 2012 18"	<b>And</b> 5mm TV	VF,VS,OVAL,UB,NND,AV3,R=P	<b>Galaxy S0:</b>	<b>VF,VS,R,GBM*14,*12SP</b>
<b>NGC 151</b> Nov 10 2007 31"	<b>Cet</b> 17mmT4	<b>H478-2</b> PB,PL,OVAL,FNUC,HSB,R=G	<b>Galaxy SBbc</b>	<b>PF,PL,LE90,VGLBM</b>
<b>NGC 153</b> Dec 16 2009 12"	<b>Cet</b> 7.5mmW	PF,PS,OVAL,UB,NND,R=F	<b>Non-Existent</b>	<b>PF,PS,R,*NR NF</b>
<b>NGC 154</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H467-3</b> CF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy E</b>	<b>EF,VS,R</b>
<b>NGC 157</b> Nov 03 2004 8"	<b>Cet</b> 11mmT6	<b>H3-2</b> MB,EL,NND,MSB,R=G	<b>Galaxy SAB(rs)bc</b>	<b>PB,L,E,BET2CB*</b>
<b>NGC 160</b> Oct 17 2004 8"	<b>And</b> 7.5mmW	<b>H476-3</b> VF,EL,OVAL,NND,AV,R=F	<b>Galaxy (R)SA0+ pec</b>	<b>VF,VS,STELL,*8NP4'</b>
<b>NGC 163</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H954-3</b> CF,CS,R,FNUC,R=F	<b>Galaxy E0</b>	<b>VF,VS</b>
<b>NGC 165</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	DIFF,CF,PS,R,NND,R=F	<b>Galaxy SB(rs)bc</b>	<b>F,L,*INCENTRE,F OF 2</b>
<b>NGC 169</b> Oct 17 2004 8"	<b>And</b> 7.5mmW	VF,EL,NND,AV,R=F	<b>Galaxy SA(s)ab: sp</b>	<b>F,PL,D ORBIN,*6NF4'</b>
<b>NGC 171</b> Dec 16 2009 12"	<b>Cet</b> 7.5mmW	<b>H223-3</b> VF,PS,R,NND,R=F	<b>Galaxy SB(r)ab</b>	<b>VF,PL,LE,2PB*SF</b>
<b>NGC 173</b> Nov 28 2010 12"	<b>Cet</b> 5.5mmN	<b>H871-3</b> CF,PS,OVAL,UB,NND,R=F,PA=100	<b>Galaxy SA(rs)c</b>	<b>VF,S,R,VGBM,*11SP1'</b>

# Observations Listing by Catalog Number

<b>NGC 180</b> Nov 28 2010 12"	<b>Psc</b> 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"	<b>Psc</b> 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 183</b> Oct 17 2004 8"	<b>And</b> 7.5mmW	<b>H870-3</b> VF,OVAL,NND,AV,R=F	<b>Galaxy E</b>	<b>PF,VS,R,GBM</b>
<b>NGC 185</b> Jul 23 2006 8" Aug 21 2004 8"	<b>Cas</b> 11mmT6 11mmT6	<b>H707-2</b> VF,PL,OVAL,NND,AV,R=F CLEAR SKIES - H.H. LITE.	<b>Galaxy E3 pec</b> 1ST REAL TEST	<b>PB,VL,IR,VGMBM,R</b>
<b>NGC 188</b> Jul 17 2020 12" Jul 08 2019 12" Jul 08 2018 12" Oct 18 2009 12"	<b>Cep</b> 8mm Et 11mmT6 17mmT4 11mmT6	<b>H870-3</b> F,S,R=F F,S,R=F F,S,R=G PF,S, R=F, TIGHT GROUP	<b>Open Cluster 10.0 I 2 r</b>	<b>CL,VL,R,150-200*</b>
<b>NGC 189</b> Jul 26 2019 12" Dec 05 2015 12" Sep 05 2007 8"	<b>Cas</b> 17mm O 17mmT4 11mmT6	<b>H870-3</b> B,S,R=F F,S,R=F	<b>Open Cluster 11.0 III 1 p</b>	<b>CL,PL,R,*11...15</b>
<b>NGC 191</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H479-2</b> CF,CS,R,UB,NND,R=F	<b>Galaxy SAB(rs)c: pec</b>	<b>PB,PL,IE0,</b>
<b>NGC 192</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H872-3</b> PF,PS,EON,FNUC,R=F,PA=175	<b>Galaxy (R')SB(r)a:</b>	<b>F,PS,PME,BM</b>
<b>NGC 193</b> Oct 06 2004 8"	<b>Psc</b> 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"	<b>Psc</b> 11mmT6	<b>H856-2</b> MF,EL,NND,AV,R=F	<b>Galaxy E</b>	<b>PB,S,R,VGBM</b>
<b>NGC 196</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H860-2</b> CF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB0 pec:</b>	<b>F,PS,R,PSMBM</b>
<b>NGC 198</b> Nov 10 2007 31"	<b>Psc</b> 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"	<b>Psc</b> 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 201</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H873-3</b> CF,PS,OVAL,UB,NND,R=F,AV1	<b>Galaxy SAB(r)c</b>	<b>VF,CL,E,VGLBM</b>

## Observations Listing by Catalog Number

<b>NGC 205</b>	<b>And</b>	<b>M110 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"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUW			
Mar 20 2009 1.9"	12x50	MESSIER MARATHON - 2009		
Aug 20 2006 1.9"	12x50	B,L,OVAL,UB,NND,R=G		
Mar 19 2006 8"	25mmPL	PB,ML,OVALFNUC,HISB,R=G		
Oct 27 2004 31"	31mmT5	VB,ML,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>And</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 210</b>	<b>Cet</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 214</b>	<b>And</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		
<b>NGC 216</b>	<b>Cet</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>Cet</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		

## Observations Listing by Catalog Number

NGC	221	And	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"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009	12"	20mmUW			
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009		
Oct 29 2008	16"	20mmUW	LARGE,BRIGHT,R=E		
Oct 29 2006	8"	19mmW	F,VS,OVAL,UB,NND,R=G		
Aug 20 2006	1.9"	12x50	B,S,OVAL,NND,R=F		
Mar 19 2006	8"	25mmPL	B,S,OVAL,OVAL,R,ND,R=F		
Oct 27 2004	31"	31mmT5	VB,ML,EL,HISB,R=E, LUNAR ECLIPSE		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		

# Observations Listing by Catalog Number

<b>NGC 224</b>	<b>And</b>	<b>M31</b>	<b>Galaxy SA(s)b</b>	<b>EEB,EL,VME,ANDROMEDA 17</b>
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"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUW			
Sep 13 2009 12"	32mmUW	4TH OBJECT		
Mar 20 2009 1.9"	12x50	MESSIER MARATHON - 2009		
Oct 29 2008 16"	20mmUW	SMALL,BRIGHT,R=E		
Oct 09 2007 8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E		
Oct 29 2006 8"	19mmW	VB,VL,OVAL,MBNUC,VHISB,R=E		
Aug 20 2006 1.9"	12x50	VB,VL,OVAL,BNUC,HISB,R=E!!		
Mar 19 2006 8"	25mmPL	VB,VL,OVAL,BNUC,VHISB,R=E		
Oct 27 2004 1.9"	12x50	FIRST MESSIER IN BINOCULARS - VERY NICE		
Oct 27 2004 31"	31mmT5	VB,EL,EL,OVAL,HISB,R=E, LUNAR ECLIPSE		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 225</b>	<b>Cas</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 226</b>	<b>And</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 227</b>	<b>Cet</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 228</b>	<b>And</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>And</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>And</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		

# Observations Listing by Catalog Number

<b>NGC 234</b> Nov 28 2010 12"	<b>Psc</b> 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 243</b> Aug 24 2012 18"	<b>And</b> 5mm TV	PF,VS,OVAL,UB,NND,R=F	<b>Galaxy S0?</b>	<b>F,VS,R,GBM,*10P</b>
<b>NGC 244</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H485-3</b> PF,CS,OVAL,FNUC,R=F,PA=45	<b>Galaxy S0 pec?</b>	<b>VF,S,IR,R,*10S5'</b>
<b>NGC 245</b> Nov 28 2010 12"	<b>Cet</b> 7mm TV	<b>H445-2</b> PF,PS,OVAL,FNUC,R=F,PA=125	<b>Galaxy SA(rs)b pec?</b>	<b>F,PS,IF,ER</b>
<b>NGC 246</b> Nov 28 2010 12" Nov 21 2006 8"	<b>Psc</b> 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 247</b> Nov 21 2006 8"	<b>Cet</b> 19mmW	<b>H20-5</b> F,L,EON,NND,R=F	<b>Galaxy SAB(s)d</b>	<b>F,EL,VME172</b>
<b>NGC 251</b> Nov 28 2010 12"	<b>Psc</b> 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 252</b> Aug 24 2012 18" Sep 09 2010 12"	<b>And</b> 5mm TV 5.5mmN	<b>H609-2</b> PF,PS,OVAL,FNUC,R=F PF,PS,OVAL,FNUC,MSB,R=F,PA=130	<b>Galaxy (R)SA(r)0+:</b>	<b>PB,S,R,PMBM,R,**P</b>
<b>NGC 253</b> Nov 04 2007 1.9" Nov 21 2006 8"	<b>ScI</b> 12x50 11mmT6	<b>H1-5</b> PB,PL,EL,OVAL,UB,ND,R=G B,PL,EON,NND,R=G	<b>Galaxy SAB(s)c</b>	<b>VVB,VVL,VME54,GBM</b>
<b>NGC 255</b> Nov 28 2010 12"	<b>Cet</b> 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 257</b> Nov 28 2010 12"	<b>Psc</b> 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 258</b> Aug 24 2012 18"	<b>And</b> 5mm TV	PF,VS,OVAL,UB,NND,R=F	<b>Galaxy Sb</b>	<b>EF,S,VF*CLOSE</b>
<b>NGC 259</b> Nov 28 2010 12"	<b>Cet</b> 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 260</b> Aug 24 2012 18"	<b>And</b> 5mm TV	VF,VS,R,NND,AV2,R=P	<b>Galaxy Scd pec:</b>	<b>EF,PS,LE</b>
<b>NGC 262</b> Oct 30 2005 31"	<b>And</b> 17mmT4	MF,ML,R,NND,R=F	<b>Galaxy SA(s)0/a:</b>	<b>EF,VS,R,V DIFFIC</b>



# Observations Listing by Catalog Number

<b>NGC 266</b> Oct 09 2007 8"	<b>Psc</b> 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 268</b> Nov 28 2010 12"	<b>Cet</b> 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"	<b>Cet</b> 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"	<b>Cet</b> 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 272</b> Nov 08 2010 12"	<b>And</b> 5.5mmN	PF,VS,R=F,FISHHOOK	<b>Open Cluster 9.0 asterism</b>	<b>CL,L,LC</b>
<b>NGC 274</b> Nov 28 2010 12"	<b>Cet</b> 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"	<b>Cet</b> 7mm TV	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 278</b> Sep 02 2019 12" Oct 05 2016 12" Jul 23 2006 8" Aug 21 2004 8"	<b>Cas</b> 11mmT6 11mmT6 11mmT6 11mmT6	<b>H159-1</b> PF,PS,OVAL,UB,NND,R=F F,S,FNUC,R=G PF,CS,R,NND,R=F CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Galaxy SAB(rs)b</b>	<b>CB,PL,R,2*10NR</b>
<b>NGC 281</b> Sep 26 2019 12" Oct 09 2018 12" Sep 24 2016 12" Dec 05 2015 12" Aug 21 2015 12" Oct 26 2014 12" Oct 07 2010 12" Sep 15 2004 8"	<b>Cas</b> 27m PN 8mm Et 17mmT4 17mmT4 8mm Ds 17mmT4 17mmAT 11mmT6	OUTSTANDING OBJECT. OIII FILTER F,PL,R=F. BRIGHT NEBULA. NEEDS DARK SKIES. PAC-MAN B,L,R=G. NEEDS OIII. LP2 FILTER PAC-MAN NEBULA. GREAT W/OIII FILTER F,L,R=G,OIII FILTER, PAC MAN NEBULA NOT SEEN!	<b>Nebula E</b>	<b>F,VL,DIF,STRIP*NP</b>
<b>NGC 288</b> Oct 09 2007 8"	<b>ScI</b> 11mmT6	<b>H20-6</b> PB,PL,SMUDGE, RESOLVED NO STARS,R=G	<b>Globular</b>	<b>GCL,B,L,LE,*12...16</b>
<b>NGC 315</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	<b>H210-2</b> PF,PS,OVAL,NND,R=F	<b>Galaxy E+:</b>	<b>PB,PL,R,GBM,*9NF3'</b>
<b>NGC 317B</b> Nov 10 2012 18"	<b>And</b> 7mm TV	VF,VS,PEXT,UB,NND,R=F	<b>Galaxy SB?</b>	
<b>NGC 337</b> Nov 10 2007 31"	<b>Cet</b> 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>

# Observations Listing by Catalog Number

<b>NGC 337A</b>	<b>Cet</b>		<b>Galaxy SAB(s)dm</b>	
Nov 10 2007 31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F		
<b>NGC 355</b>	<b>Cet</b>		<b>Galaxy SB0^ pec:</b>	<b>EF,VS</b>
Nov 10 2007 31"	17mmT4	PF,PS,EON,NND,AV,R=F		
<b>NGC 357</b>	<b>Cet</b>	<b>H434-2</b>	<b>Galaxy SB(r)0/a:</b>	<b>F,S,IR,SBM,*14NF20"</b>
Nov 10 2007 31"	17mmT4	PB,PS,OVAL,BNUC,R=G		
<b>NGC 366</b>	<b>Cas</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>Cas</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 393</b>	<b>And</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>And</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		
Oct 06 2004 8"	7.5mmW	VB,EL,OVAL,FNUC,R=G		
<b>NGC 410</b>	<b>Psc</b>	<b>H220-2</b>	<b>Galaxy E+:</b>	<b>PB,PL,NF OF 2</b>
Oct 09 2007 8"	11mmT6	CF,CS,OVAL,NND,R=F		
<b>NGC 425</b>	<b>And</b>		<b>Galaxy S?</b>	<b>VF,VS,R,LBM,*11ATT</b>
Nov 08 2010 12"	5.5mmN	VF,CS,R,UB,NND,AV1,R=F		
<b>NGC 428</b>	<b>Cet</b>	<b>H622-2</b>	<b>Galaxy SAB(s)m</b>	<b>F,L,R,BM,ER</b>
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
<b>NGC 433</b>	<b>Cas</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>Cas</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 451</b>	<b>Psc</b>		<b>Galaxy S?</b>	<b>VF,VS,R,VLBM</b>
Oct 12 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 457</b>	<b>Cas</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 467</b>	<b>Psc</b>	<b>H108-1</b>	<b>Galaxy SA(s)0^ pec?</b>	<b>PB,PL,R,GBM</b>
Oct 09 2007 8"	11mmT6	PF,VS,	R,NND,R=F	
<b>NGC 469</b>	<b>Psc</b>		<b>Galaxy S</b>	<b>EF,S,R</b>
Oct 18 2009 12"	11mmT6	VF,VS,	OVAL,NND,AV,R=F	
<b>NGC 470</b>	<b>Psc</b>	<b>H250-3</b>	<b>Galaxy SA(rs)b</b>	<b>PB,L,IR</b>
Oct 09 2007 8"	11mmT6	PB,PS,	OVAL,NND,R=F	
<b>NGC 474</b>	<b>Psc</b>	<b>H251-3</b>	<b>Galaxy SA(s)0^</b>	<b>PB,S,SMBM,F OF 2</b>
Oct 09 2007 8"	11mmT6	PF,PL,	R,NND,R=F	
<b>NGC 477</b>	<b>And</b>	<b>H577-3</b>	<b>Galaxy SAB(s)c</b>	<b>VF,PS,VLE,VGLBM</b>
Oct 30 2005 31"	17mmT4	MF,ML,	OVAL,NND,R=F	
<b>NGC 488</b>	<b>Psc</b>	<b>H252-3</b>	<b>Galaxy SA(r)b</b>	<b>PB,L,R,SVMBM,*8F10'</b>
Nov 21 2006 8"	11mmT6	B,L,	OVAL,FNUC,R=F	
Aug 21 2004 8"	11mmT6	CLEAR	SKIES - H.H. LITE. 1ST REAL TEST	
<b>NGC 495</b>	<b>Psc</b>	<b>H156-3</b>	<b>Galaxy (R')SB(s)0/a p:</b>	<b>VF,S,1ST OF 3</b>
Nov 10 2007 31"	17mmT4	PB,S,	OVAL,BNUC,R=F	
<b>NGC 496</b>	<b>Psc</b>	<b>H157-3</b>	<b>Galaxy Sbc</b>	<b>VF,VS,2ND OF 3</b>
Nov 10 2007 31"	17mmT4	PF,PL,	OVAL,UB,NND,R=F	
<b>NGC 499</b>	<b>Psc</b>	<b>H158-3</b>	<b>Galaxy S0-</b>	<b>PB,PL,R,3RD OF 3</b>
Nov 10 2007 31"	17mmT4	PB,PL,	OVAL,BNUC,HSB,R=G	
<b>NGC 507</b>	<b>Psc</b>	<b>H159-3</b>	<b>Galaxy SA(r)0^</b>	<b>VF,PL,R,BM,S OF 2</b>
Oct 30 2005 31"	17mmT4	VB,VL,	R,FNUC,MSB,R=G	
<b>NGC 508</b>	<b>Psc</b>	<b>H160-3</b>	<b>Galaxy E0:</b>	<b>VF,S,N OF 2</b>
Oct 30 2005 31"	17mmT4	VB,VL,	R,FNUC,MSB,R=G	
<b>NGC 513</b>	<b>And</b>	<b>H169-3</b>	<b>Galaxy S?</b>	<b>F,S,STELLAR</b>
Nov 10 2007 31"	17mmT4	PB,PS,	OVAL,FNUC,R=F	
<b>NGC 514</b>	<b>Psc</b>	<b>H252-2</b>	<b>Galaxy SAB(rs)c</b>	<b>F,L,LE,VGLBM,**F</b>
Oct 09 2007 8"	11mmT6	DIF,PF,	PS,OVAL,NND,AV,R=F	

# Observations Listing by Catalog Number

<b>NGC 520</b>	<b>Psc</b>	<b>H253-3</b>	<b>Galaxy Pec</b>	<b>F,CL,E137</b>
Oct 09 2007 8"	11mmT6	PB,PL,EL,OVAL,NND,R=F		
<b>NGC 522</b>	<b>Psc</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 523</b>	<b>And</b>	<b>H170-3</b>	<b>Galaxy Pec</b>	<b>DNEB,VF,VS,DIST30"</b>
Nov 08 2010 12"	5.5mmN	CF,CS,EON,UB,NND,AV1,R=F		
<b>NGC 524</b>	<b>Psc</b>	<b>H151-1</b>	<b>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>Psc</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 528</b>	<b>And</b>		<b>Galaxy S0</b>	<b>F,PL,R,LBM</b>
Sep 12 2010 12"	5.5mmN	PF,CS,OVAL,MEXT,FNUC,R=F,PA=90		
<b>NGC 529</b>	<b>And</b>		<b>Galaxy S0-:</b>	<b>PB,VS,SBM,P OF 2</b>
Dec 01 2004 31"	11mmT6	MB,EL,FNUC,MSB,R=G, SOLO EFFORT		
Nov 03 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
Oct 17 2004 8"	7.5mmW	MF,OVAL,NND,AV,R=F		
<b>NGC 531</b>	<b>And</b>		<b>Galaxy SB0/a:</b>	<b>F,S,R</b>
Dec 01 2004 31"	11mmT6	MB,EL,PATCH,NND,R=G, SOLO EFFORT		
<b>NGC 536</b>	<b>And</b>	<b>H171-3</b>	<b>Galaxy SB(r)b</b>	<b>PB,PL,GBM,F OF 2</b>
Dec 01 2004 31"	11mmT6	MB,OVAL,FNUC,MSB,R=G, SOLO EFFORT		
Nov 03 2004 8"	11mmT6	VF,EL,NND,AV,R=F		
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
<b>NGC 551</b>	<b>And</b>	<b>H560-3</b>	<b>Galaxy SBbc</b>	<b>VF,S,E,VGLBM,*13NR</b>
Sep 12 2010 12"	5.5mmN	VF,PS,EON,NND,AF,R=P,PA=175		
<b>NGC 559</b>	<b>Cas</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 561</b>	<b>And</b>		<b>Galaxy (R)SB(s)a</b>	<b>EF,PL,R</b>
Oct 07 2010 12"	5.5mmN	CF,PS,R,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 581</b>	<b>Cas</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			
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 584</b>	<b>Cet</b>	<b>H100-1</b>	<b>Galaxy E4</b>	<b>VB,PL,R,MBM,P OF 2</b>
Nov 21 2006 8"	11mmT6	B,PS,OVAL,FNUC,R=G		
<b>NGC 590</b>	<b>And</b>		<b>Galaxy SBa</b>	<b>F,VS,(RR)</b>
Nov 08 2010 12"	5.5mmN	CF,PS,OVAL,PEXT,UB,NND,R=F,PA=30		
<b>NGC 591</b>	<b>And</b>		<b>Galaxy (R')SB0/a</b>	<b>EF,PS,R,LBM,B*SF</b>
Nov 08 2010 12"	5.5mmN	PF,CS,R,UB,NND,R=F		
<b>NGC 596</b>	<b>Cet</b>	<b>H4-2</b>	<b>Galaxy E+ pec:</b>	<b>PB,R,BM,R,*6F12'</b>
Nov 21 2006 8"	11mmT6	F,PS,OVAL,FNUC,R=G		
<b>NGC 598</b>	<b>Tri</b>	<b>M33 H17-5</b>	<b>Galaxy SA(s)cd</b>	<b>EB,EL,R,VGBMN 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"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 1.9"	12x50	MESSIER MARATHON - 2009		
Oct 29 2008 16"	20mmUW	LARGE, DIFFUSE PATCH		
Mar 17 2007 8"	25mmPL	M.M. BETWEEN CLOUDS		
Mar 19 2006 8"	19mmW	DIFF,L,F,OVAL,NND,R=F		
Oct 31 2004 1.9"	12x50	VB,ML,EON,LSB,R=G		
Oct 27 2004 31"	31mmT5	VB,ML,OVAL,HISB,R=E, LUNAR ECLIPSE		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 600</b>	<b>Cet</b>	<b>H432-3</b>	<b>Galaxy (R')SB(rs)d</b>	<b>EEF</b>
Nov 21 2006 8"	11mmT6	F,S,R,NND,R=F		
<b>NGC 604</b>	<b>Tri</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		

## Observations Listing by Catalog Number

<b>NGC 605</b>	<b>And</b>		<b>Galaxy S0</b>	<b>VF,VS,R,BM</b>
Oct 07 2010 12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=10		
<b>NGC 608</b>	<b>Tri</b>		<b>Galaxy S?</b>	<b>VF,PSBM,STELLAR</b>
Nov 24 2006 31"	20mmUW	B,S,OVAL,NND,R=G		
<b>NGC 609</b>	<b>Cas</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 613</b>	<b>Sci</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 614</b>	<b>Tri</b>	<b>H174-3</b>	<b>Galaxy S0?</b>	<b>PF,PSBM,STELLAR</b>
Nov 24 2006 31"	20mmUW	PB,O,R,FNUC,R=G		
<b>NGC 615</b>	<b>Cet</b>	<b>H282-2</b>	<b>Galaxy SA(rs)b</b>	<b>PB,PL,ILE,GBM,*8NP10</b>
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,R=F		
<b>NGC 620</b>	<b>And</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 621</b>	<b>Tri</b>		<b>Galaxy SB0</b>	<b>VF,ES,R,BMN</b>
Nov 24 2006 31"	20mmUW	PB,L,R,NND,R=F		
<b>NGC 628</b>	<b>Psc</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 634</b>	<b>Tri</b>		<b>Galaxy Sa</b>	<b>EF,ES,SEVF*INV</b>
Nov 24 2006 31"	20mmUW	CB,CL,OVAL,FNUC,USB,R=G		
<b>NGC 636</b>	<b>Cet</b>	<b>H283-2</b>	<b>Galaxy E3</b>	<b>PB,VS,R,MBM,R</b>
Nov 10 2007 31"	17mmT4	PB,PS,OVAL,BNUC,R=G		
<b>NGC 637</b>	<b>Cas</b>	<b>H49-7</b>	<b>Open Cluster 8.0 I 2 m</b>	<b>CL,PS,B\$VF ST</b>
Oct 21 2012 8"	11mmT6	B,S,Y-SHAPED STARS=10-12,SOME NEBULOSITY NOTED,R=G		
Oct 06 2004 8"	7.5mmW	R=F, NOT MANY STARS		

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<b>NGC</b>	<b>650</b>	<b>Per</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			
	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</b>	<b>654</b>	<b>Cas</b>	<b>H46-7</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,IF,RI,1*6.7,</b>	
	Oct 21 2012 8"	11mmT6	F,S,LOOSE,STARS=15-20,R=F			
	Sep 15 2004 8"	11mmT6	FEWER STARS			
<b>NGC</b>	<b>657</b>	<b>Cas</b>		<b>Open Cluster 7.1</b>	<b>CL,PRI,ST12</b>	
	Oct 24 2012 8"	11mmT6	VS,VF,R=P			
<b>NGC</b>	<b>659</b>	<b>Cas</b>	<b>H65-8</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,LRI,ST B</b>	
	Oct 21 2012 8"	11mmT6	PF,PS,STARS=10-12,R=F			
	Sep 15 2004 8"	11mmT6	SMALLEST OF THREE IN GROUP			
<b>NGC</b>	<b>660</b>	<b>Psc</b>	<b>H253-2</b>	<b>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</b>	<b>661</b>	<b>Tri</b>	<b>H610-2</b>	<b>Galaxy E+:</b>	<b>F,S,R,BM,R</b>	
	Nov 24 2006 31"	20mmUW	VB,CL,OVAL,BNUC,R=G			
<b>NGC</b>	<b>663</b>	<b>Cas</b>	<b>H31-6</b>	<b>Open Cluster 9.0 II 3 r</b>	<b>CL,B,L,ERI,ST PL</b>	
	Oct 09 2018 12"	8mm Et	B,L,R=G			
	Dec 05 2015 12"	17mmT4				
	Aug 21 2015 12"	8mm Ds				
	Oct 21 2012 8"	11mmT6	B,L,LOOSE,STGARS=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</b>	<b>665</b>	<b>Psc</b>	<b>H588-2</b>	<b>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</b>	<b>666</b>	<b>Tri</b>		<b>Galaxy S?</b>	<b>VF*IN EF,ES NEBY</b>	
	Nov 24 2006 31"	20mmUW	PB,CL,OVAL,FNUC,R=G			
<b>NGC</b>	<b>668</b>	<b>And</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			

# Observations Listing by Catalog Number

<b>NGC 669</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW PB,L,EON,B,FNUC,R=G	<b>Galaxy Sab</b>	<b>PF,PL,ME,GBM</b>
<b>NGC 670</b> Nov 24 2006 31"	<b>Tri</b> <b>H611-2</b> 20mmUW PB,CL,EON,FNUC,R=G	<b>Galaxy SA0</b>	<b>F,S,LE</b>
<b>NGC 672</b> Oct 29 2008 16" Nov 10 2007 31" Nov 24 2006 31" Nov 09 2004 8"	<b>Tri</b> <b>H157-1</b> 17mmT4 PF,PS,EON,FNUC,R=F 17mmT4 PB,CL,EON,UB,NND,R=G 20mmUW B,PL,EON,UB,NND,R=F 11mmT6 VF,EL,NND,AV,R=F	<b>Galaxy SB(s)cd</b>	<b>F,PL ,ME80</b>
<b>NGC 676</b> Oct 09 2007 8"	<b>Psc</b> <b>H42-4</b> 11mmT6 PF,PS,EON,NND,AV,R=F	<b>Galaxy S0/a: sp</b>	<b>VF,E161,SBM*9</b>
<b>NGC 679</b> Oct 07 2010 12"	<b>And</b> <b>H175-3</b> 5.5mmN PF,PS,R,FNUC,R=F	<b>Galaxy S0-:</b>	<b>F,STELLAR</b>
<b>NGC 680</b> Nov 21 2006 8"	<b>Ari</b> <b>H229-2</b> 11mmT6 PF,S,OVAL,NND,R=F	<b>Galaxy E+ pec:</b>	<b>PB,S,IR,MBM,F OF 2</b>
<b>NGC 684</b> Nov 24 2006 31"	<b>Tri</b> <b>H612-2</b> 20mmUW CB,CL,EON,UB,FNUC,R=G	<b>Galaxy Sb sp</b>	<b>F,VLE,*13F100"</b>
<b>NGC 687</b> Oct 07 2010 12"	<b>And</b> <b>H561-3</b> 7mm TV CF,PS,R,UB,NND,R=F	<b>Galaxy S0</b>	<b>VF,STELLAR</b>
<b>NGC 688</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW PF,PL,OVAL,UB,NND,R=F	<b>Galaxy (R')SAB(rs)b</b>	<b>VF,VS,(RESOLVABLE)</b>
<b>NGC 691</b> Sep 04 2005 8"	<b>Ari</b> <b>H617-2</b> 7.5mmW 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"	<b>Ari</b> <b>H179-3</b> 11mmT6 VF,VS,EL,NND,AV,R=F	<b>Galaxy SAB(r)c:</b>	<b>F,CL,E,MBM</b>
<b>NGC 703</b> Oct 07 2010 12"	<b>And</b> <b>H562-3</b> 7mm TV CF,PS,OVAL,NND,R=F,PA=90	<b>Galaxy S0-:</b>	<b>VF,VS,R,1ST OF 4</b>
<b>NGC 704</b> Oct 07 2010 12"	<b>And</b> <b>H563-3</b> 7mm TV CF,CS,R,UB,NND,R=F	<b>Galaxy S0</b>	<b>VF,VS,R,2ND OF 4</b>
<b>NGC 706</b> Nov 10 2007 31"	<b>Psc</b> <b>H596-2</b> 17mmT4 PF,PL,OVAL,UB,NND,R=F	<b>Galaxy Sbc?</b>	<b>F,S,BM,*13N1'</b>
<b>NGC 708</b> Oct 07 2010 12"	<b>And</b> <b>H565-3</b> 7mm TV PF,PS,R,NND,R=F	<b>Galaxy E</b>	<b>F,PL,BM,4TH OF 4</b>



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<b>NGC 710</b> Oct 07 2010 12"	<b>And</b> 5.5mmN	<b>Galaxy Scd:</b> VF,PS,OVAL,UB,NND,R=F,AV-3,PA=115	<b>VF,PS,2*S</b>
<b>NGC 712</b> Oct 07 2010 12"	<b>And</b> 5.5mmN	<b>Galaxy S0</b> CF,PS,OVAL,UB,NND,R=F,PA=95	<b>VF,R,AM PB ST</b>
<b>NGC 714</b> Oct 07 2010 12"	<b>And</b> 5.5mmN	<b>Galaxy S0/a</b> PF,CS,EON,UB,NND,R=F,PA=170	<b>F,VS,R,2*13P\$NP</b>
<b>NGC 717</b> Oct 07 2010 12"	<b>And</b> 5.5mmN	<b>Galaxy S0/a</b> PF,CS,EON,UB,NND,R=F,AV-4,PA=170	<b>VF,PS,*15SF1'</b>
<b>NGC 718</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	<b>H270-2</b> PF,PS,R,UB,NND,R=F	<b>Galaxy SAB(s)a</b> PB,S,IR,PSMBM
<b>NGC 720</b> Nov 21 2006 8"	<b>Cet</b> 11mmT6	<b>H105-1</b> B,PS,OVAL,NND,R=F	<b>Galaxy E5</b> CB,PL,LE,PSMBM
<b>NGC 721</b> Oct 07 2010 12"	<b>And</b> 5.5mmN	<b>Galaxy SB(rs)bc</b> VF,PS,OVAL,UB,NND,R=F,AV-5,PA=10	<b>EF,PL</b>
<b>NGC 722</b> Aug 21 2004 8"	<b>Ari</b> 11mmT6	<b>Galaxy S?</b> CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>VF,VS,R,BETA ARI N</b>
<b>NGC 732</b> Oct 07 2010 12"	<b>And</b> 5.5mmN	<b>Galaxy S0</b> VF,PS,OVAL,UB,NND,R=F,AV-1,PA=70	<b>VF*IN VF,VS,R,NEBY</b>
<b>NGC 733</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW	<b>Galaxy</b> VF,VS,OVAL,NND,AV,R=F	<b>VF,2'P736</b>
<b>NGC 735</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW	<b>H176-3</b> PF,PS,OVAL,NND,R=F	<b>Galaxy Sb</b> EEF,STELLAR
<b>NGC 736</b> Nov 24 2006 31" Nov 09 2004 8"	<b>Tri</b> 20mmUW 11mmT6	<b>H221-2</b> CB,CL,OVAL,FNUC,R=G VF,OVAL,NND,AV,R=F	<b>Galaxy E+:</b> PB,R,BM
<b>NGC 738</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW	<b>Galaxy S0</b> CF,CS,OVAL,NND,R=F	<b>NEB,75"NF 736</b>
<b>NGC 739</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW	<b>Galaxy S0?</b> B,CS,VAL,UB,NND,R=F	<b>CF,VS,R,INTRI OF*</b>
<b>NGC 740</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW	<b>H221-2</b> B,PL,EON,UB,NND,R=F	<b>Galaxy SBb?</b> F,L,CE
<b>NGC 741</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	<b>H271-2</b> PF,PS,R,UB,NND,R=F	<b>Galaxy E0:</b> PF,S,R,POF2,POS102

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<b>NGC 743</b> Oct 24 2012 8"	<b>Cas</b> 11mmT6 PF,L,LOOSER GROUP,R=F	<b>Open Cluster 10.0 IV 1 p</b>	<b>CL,NOTRI,D*</b>
<b>NGC 744</b> Oct 09 2007 8"	<b>Per</b> 11mmT6 PF,PL,TIGHTER GROUP, R=F	<b>Open Cluster 10.0 III 1 p</b>	<b>CL,PL,PRI,IF,*11..13</b>
<b>NGC 746</b> Oct 07 2010 12"	<b>And</b> 5.5mmN VF,PS,OVAL,MEXT,UB,NND,R=F,AV-2,PA=115	<b>Galaxy Im</b>	<b>VF,PS,LE,SEV*NR</b>
<b>NGC 750</b> Nov 09 2004 8"	<b>Tri</b> <b>H222-2</b> 11mmT6 VF,EL,OVAL,NND,AV,R=F	<b>Galaxy E pec</b>	<b>CB,PL,R,DW/751,25"</b>
<b>NGC 751</b> Nov 09 2004 8"	<b>Tri</b> 11mmT6 VF,OVAL,NND,AV,R=F	<b>Galaxy E pec</b>	<b>PF,ES,R,BM,DW/750</b>
<b>NGC 752</b> Nov 26 2006 1.9" Oct 29 2006 8" Oct 06 2004 8"	<b>And</b> <b>H32-7</b> 12x50 B,L,LOOSE,RESOLVE 4-5 STARS,R=F 19mmW 50+STARS,R,R=G 7.5mmW EB,R,UB,R=G	<b>Open Cluster 8.0 II 2 r</b>	<b>CL,VVL,RI,*L\$SC</b>
<b>NGC 753</b> Sep 26 2019 12" Oct 10 2004 8"	<b>And</b> 11mmT6 11mmT6 VF, OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)bc</b>	<b>PB,PL,R,GMBM</b>
<b>NGC 759</b> Nov 08 2010 12" Oct 07 2010 12"	<b>And</b> 5.5mmN CF,CS,R,NND,AV1,R=F 5.5mmN PF,PS,R,FNUC,R=F	<b>Galaxy E</b>	<b>CL,VS,R</b>
<b>NGC 761</b> Nov 24 2006 31"	<b>Tri</b> 20mmUW PB,PS,ELOVAL,UB,NND,R=F	<b>Galaxy SBa:</b>	<b>PF,CL,4F* NR</b>
<b>NGC 772</b> Dec 04 2004 8" Nov 03 2004 8"	<b>Ari</b> <b>H112-1</b> 11mmT6 MB,EL,OVAL,NND,MSB,R=G 11mmT6 MF,EL,OVAL,NND,R=F	<b>Galaxy SA(s)b</b>	<b>B,CL,R,GBM,R</b>
<b>NGC 777</b> Oct 29 2008 16" Nov 09 2004 8"	<b>Tri</b> <b>H223-2</b> 17mmT4 PF,CS,R,FNUC,R=F 11mmT6 VF,OVAL,NND,MSB,R=G	<b>Galaxy E1</b>	<b>PB,PL,R,GLBM</b>
<b>NGC 779</b> Nov 21 2006 8"	<b>Cet</b> <b>H101-1</b> 11mmT6 F,L,EON,NND,R=F	<b>Galaxy SAB(r)b</b>	<b>CB,L,ME162,MBM</b>
<b>NGC 783</b> Dec 18 2006 31" Nov 09 2004 8"	<b>Tri</b> 20mmUW B,PLMOVAL,NND,R=F 11mmT6 VF,OVAL,NND,AV,R=F	<b>Galaxy Sc</b>	<b>EF,S,IR,VF ST ATT</b>
<b>NGC 784</b> Nov 09 2004 8"	<b>Tri</b> 11mmT6 VF,ELEON,NND,AV,R=F	<b>Galaxy SBdm: sp</b>	<b>VF,L,E,(DOUBLE)</b>

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<b>NGC 785</b> Nov 09 2004 8"	<b>Tri</b> 11mmT6	VF,OVAL,NND,AV,R=F	<b>Galaxy S0-:</b>	<b>EF,ES,VF*ATT</b>
<b>NGC 789</b> Nov 02 2005 31"	<b>Tri</b> 19mmW	MB,PL,R,FNUC,MSB,R=G	<b>Galaxy S?</b>	<b>VF,S,LE</b>
<b>NGC 797</b> Oct 17 2004 8"	<b>And</b> 7.5mmW	<b>H566-3</b> VF,OVAL,NND,AV,R=F	<b>Galaxy SAB(s)a</b>	<b>VF,S,IR,SBM,*NR</b>
<b>NGC 798</b> Nov 02 2005 31"	<b>Tri</b> 19mmW	MB,ML,EON,FNUC,MSB,R=G	<b>Galaxy E</b>	<b>EF,VS</b>
<b>NGC 805</b> Nov 02 2005 31"	<b>Tri</b> 19mmW	MB,FS,OVAL,FNUC,R=F	<b>Galaxy SB0</b>	<b>EF,ES,R,2*14P</b>
<b>NGC 807</b> Nov 02 2005 31"	<b>Tri</b> 19mmW	<b>H151-3</b> PB,FS,R,FNUC,MSB,R=G	<b>Galaxy E</b>	<b>VF,VS,IR,BET2*N\$SP</b>
<b>NGC 812</b> Oct 17 2004 8"	<b>And</b> 7.5mmW	MF,EL,NND,AV,R=F	<b>Galaxy S pec</b>	<b>EF,PL,E45,BM</b>
<b>NGC 818</b> Nov 21 2006 8"	<b>And</b> 11mmT6	<b>H604-2</b> VF,S,OVAL,NND,AV,R=F	<b>Galaxy SABc:</b>	<b>PB,CL,LE,MBM</b>
<b>NGC 821</b> Sep 04 2005 8"	<b>Ari</b> 11mmT6	<b>H152-1</b> MF,MS,OVAL,FNUC,R=G	<b>Galaxy E6?</b>	<b>PB,VS,VLE,SVMBM,*NP</b>
<b>NGC 828</b> Nov 21 2006 8"	<b>And</b> 11mmT6	<b>H605-2</b> VF,S,OVAL,NND,AV,R=F	<b>Galaxy Sa: pec</b>	<b>PB,S,IR,D*F15S</b>
<b>NGC 834</b> Nov 08 2010 12"	<b>And</b> 5.5mmN	<b>H567-3</b> PF,PS,OVAL,UB,NND,R=F,PA=90	<b>Galaxy S?</b>	<b>VF,S,LE</b>
<b>NGC 841</b> Nov 21 2006 8"	<b>And</b> 11mmT6	VF,L,OVAL,NND,AV,R=F	<b>Galaxy (R')SAB(s)ab</b>	<b>PB,VS,MBMN=*13,14</b>
<b>NGC 845</b> Oct 10 2012 18"	<b>And</b> 8.8 ES	<b>H604-3</b> F,S,EON,UB,ND,R=F	<b>Galaxy Sb</b>	<b>VF,IF,STELLAR</b>
<b>NGC 847</b> Nov 08 2010 12"	<b>And</b> 5.5mmN	CF,CS,R,UB,NND,R=F	<b>Galaxy SB(rs)ab</b>	<b>VF,PL,R</b>
<b>NGC 855</b> Nov 09 2004 8"	<b>Tri</b> 11mmT6	<b>H613-2</b> VF,EL,EON,NND,AV,R=F	<b>Galaxy E</b>	<b>F,S,LE90,BM</b>
<b>NGC 860</b> Dec 19 2006 31"	<b>Tri</b> 17mmT4	PB,PS,OVAL,FNUC,R=F	<b>Galaxy E</b>	<b>*13IN F NEB</b>

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<b>NGC 861</b>	<b>Tri</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>Tri</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 869</b>	<b>Per</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 877</b>	<b>Ari</b>	<b>H246-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>PF,PL,LE,PGBM,</b>
Nov 21 2006 8"	11mmT6	PF,L,OVAL,NND,R=F		
<b>NGC 884</b>	<b>Per</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 886</b>	<b>Cas</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 890</b>	<b>Tri</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		

# Observations Listing by Catalog Number

<b>NGC 891</b>	<b>And</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 896</b>	<b>Cas</b>	<b>H695-3</b>	<b>Nebula E</b>	<b>EF,PL,IF</b>
Jul 26 2019 12"	17mm O		CLUSTE W/NEBULA. LP2,R=F	
Oct 18 2009 12"	20mmUW		PF,PS, HINT OF NEBULOSITY	
<b>NGC 898</b>	<b>And</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>And</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 908</b>	<b>Cet</b>	<b>H153-1</b>	<b>Galaxy SA(s)c</b>	<b>CB,VL,E</b>
Nov 21 2006 8"	11mmT6		PF,L,OVAL,NND,R=F	
<b>NGC 909</b>	<b>And</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>And</b>	<b>H571-3</b>	<b>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>And</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>And</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>And</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>And</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>And</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 925</b>	<b>Tri</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	
<b>NGC 931</b>	<b>Tri</b>		<b>Galaxy SAbc</b>	<b>F,PL,IR</b>
Dec 19 2006 31"	17mmT4		PB,L,EON,FNUC,HISB,R=G	

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<b>NGC 933</b>	<b>And</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 936</b>	<b>Cet</b>	<b>H23-4</b>	<b>Galaxy SB(rs)0+</b>	<b>VB,VL,R,MBMN,P OF 2</b>
Nov 21 2006 8"	11mmT6	B,LOVAL,NND,R=F		
<b>NGC 937</b>	<b>And</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 941</b>	<b>Cet</b>	<b>H261-3</b>	<b>Galaxy SAB(rs)c</b>	<b>VF,CL,R,F OF 2</b>
Nov 21 2006 8"	11mmT6	VF,S,OVAL,NND,V,R=F		
<b>NGC 946</b>	<b>And</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 949</b>	<b>Tri</b>	<b>H154-1</b>	<b>Galaxy SA(rs)b:?</b>	<b>CB,L,E,VGBM</b>
Nov 09 2004 8"	11mmT6	VF,OVAL,NND,MSB,R=G		
<b>NGC 956</b>	<b>And</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 957</b>	<b>Per</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 959</b>	<b>Tri</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>Tri</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>Tri</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>Tri</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>Tri</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 972</b>	<b>Ari</b>	<b>H211-2</b>	<b>Galaxy Sab</b>	<b>PB,CL,LE,GMBM,3*S</b>
Nov 21 2006 8"	11mmT6	VF,L,OVAL,NND,R=F		
<b>NGC 973</b>	<b>Tri</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>Tri</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		

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<b>NGC 976</b> Nov 21 2006 8"	<b>Ari</b> 11mmT6	<b>Galaxy SA(rs)c:</b> VF,S,OVAL,NND,AV,R=F	<b>VF,VS,4F * NR</b>
<b>NGC 978</b> Dec 19 2006 31"	<b>Tri</b> 17mmT4	<b>Galaxy S0-</b> VB,CL,OVAL,BNUC,HISB,R=G	<b>PB,R,5TH OF 5</b>
<b>NGC 978A</b> Oct 30 2005 31"	<b>Tri</b> 17mmT4	<b>Non-Existent</b> MB,ML,EON,OVAL,NND,R=G	
<b>NGC 978B</b> Dec 19 2006 31" Oct 30 2005 31"	<b>Tri</b> 17mmT4 17mmT4	<b>Galaxy S0</b> PB,PL,OVAL,FNUC,R=F B,LITTLES SMALLER,OVAL,NND,R=F	
<b>NGC 980</b> Nov 08 2010 12" Oct 07 2010 12"	<b>And</b> 5.5mmN 7mm TV	<b>H572-3</b> CF,PS,OVAL,MEXT,UB,NND,R=F,PA=180 VF,CS,OVAL,PEXT,UB,NND,R=F,AV-2,PA=170	<b>Galaxy S0</b> <b>VF,PS,SP OF 2</b>
<b>NGC 982</b> Nov 08 2010 12" Oct 07 2010 12"	<b>And</b> 5.5mmN 7mm TV	<b>H573-3</b> PF,PS,OVAL,PEXT,UB,NND,R=F,PA=15 CF,CS,OVAL,PEXT,UB,NND,R=F,PA=10	<b>Galaxy Sa</b> <b>F,S,NF OF 2</b>
<b>NGC 987</b> Dec 19 2006 31"	<b>Tri</b> 17mmT4	<b>H161-3</b> PB,CL,OVAL,BNUC,HISB,R=F	<b>Galaxy SB0/a</b> <b>F,S,VLE,BM,R,2*14 NP</b>
<b>NGC 991</b> Dec 16 2009 12"	<b>Cet</b> 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 995</b> Oct 10 2012 18"	<b>And</b> 8.8 ES	<b>Galaxy S0</b> F,S,OVAL,UB,NND,R=F	<b>VF,VS</b>
<b>NGC 996</b> Oct 10 2012 18"	<b>And</b> 8.8 ES	<b>Galaxy E</b> F,S,R,FNUC,R=F	<b>VF,VS</b>
<b>NGC 997</b> Dec 12 2012 36"	<b>Cet</b> 17mmT4	<b>Galaxy E</b> PF,PS,OVAL,MEXT,FNUC,HSB,R=G	<b>F,S</b>
<b>NGC 998</b> Dec 12 2012 36"	<b>Cet</b> 17mmT4	<b>Galaxy S</b> PF,PS,OVAL,UB,NND,R=F	<b>VF</b>
<b>NGC 999</b> Oct 10 2012 18"	<b>And</b> 8.8 ES	<b>Galaxy (R')SAB(s)a</b> PF,S,OVAL,UB,ND,AV1,R=F	<b>EF</b>
<b>NGC 1000</b> Oct 10 2012 18"	<b>And</b> 8.8 ES	<b>Galaxy C</b> PF,PS,R,UB,NND,R=F,15.3 MAG, DIRECT VISION	<b>VVF,PS,DIF</b>
<b>NGC 1003</b> Nov 09 2004 8"	<b>Per</b> 7.5mmW	<b>H238-2</b> VF,EL,EON,NND,AV,R=G	<b>Galaxy SA(s)cd</b> <b>PF,L,E90,MBM,R</b>

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<b>NGC 1012</b> Sep 04 2005 8"	<b>Ari</b> 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 1022</b> Nov 21 2006 8"	<b>Cet</b> 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 1023</b> Sep 09 2010 12" Oct 10 2004 8"	<b>Per</b> 17mmAT 11mmT6	<b>H156-1</b> B,S,EON,BNUC,R=G,PA=165 MB,EL,RNUC,R=G	<b>Galaxy SB(rs)0-</b>	<b>VB,VL,VME,VVMBM</b>
<b>NGC 1024</b> Sep 04 2005 8"	<b>Ari</b> 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 1027</b> Jul 26 2019 12" Nov 03 2004 8" Oct 06 2004 8"	<b>Cas</b> 17mm O 11mmT6 7.5mmW	<b>H66-8</b> B,S,R=F R=F, SCATTERED STARS	<b>Open Cluster 9.0 II 3 m n</b>	<b>CL,L,SC ST,ONE10M</b>
<b>NGC 1032</b> Nov 13 2007 8"	<b>Cet</b> 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"	<b>Cet</b> 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 1036</b> Oct 30 2005 31"	<b>Ari</b> 17mmT4	<b>H475-3</b> MB,ML,OVAL,NND,R=G	<b>Galaxy Pec?</b>	<b>F,S,R,LBM</b>
<b>NGC 1039</b> Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Oct 29 2006 1.9" Mar 19 2006 8" Mar 19 2004 8" Dec 26 2003 8"	<b>Per</b> 17mmAT 17mmAT 11mmT6 26mm 12x50 25mmPL 25mmPL 25mmPL	<b>M34</b> 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 B,L,R,R=G PB,PL,R=G. SCATTERED STARS 2004 MESSIER MARATHON - ARGO NAVIS Q/M COLD	<b>Open Cluster 9.0 II 3 r</b>	<b>CL,B,VL,LC,SC ST9</b>
<b>NGC 1045</b> Nov 08 2010 12"	<b>Cet</b> 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 1050</b> Oct 25 2009 12"	<b>Per</b> 7.5mmW	<b>H102-1</b> VF,VS,OVAL,UB,NND,AV,R=F	<b>Galaxy (R')SB(s)a</b>	<b>F,S,*18INV N</b>
<b>NGC 1052</b> Nov 21 2006 8"	<b>Cet</b> 11mmT6	<b>H63-1</b> B,L,R,FNUC,R=G	<b>Galaxy E4</b>	<b>B,PL,R,MBM*12</b>
<b>NGC 1053</b> Oct 25 2009 12"	<b>Per</b> 7.5mmW	<b>H102-1</b> VF,S,OVAL,UB,NND,R=F	<b>Galaxy S0</b>	<b>VF,VS,LE,3OR4*LINENR</b>



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<b>NGC 1055</b>	<b>Cet</b>	<b>H1-1</b>	<b>Galaxy SBb: sp</b>	<b>PF,CL,IE80,BM,*11N1'</b>
Dec 16 2009 12"	11mmT6	PB,L,EON,UB,HSB,R=G		
Nov 21 2006 8"	11mmT6	PF,S,OVAL,NND,R=F		
<b>NGC 1058</b>	<b>Per</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 1060</b>	<b>Tri</b>	<b>H162-3</b>	<b>Galaxy S0-:</b>	<b>F,PL,R,LBM,*F46S,3'S</b>
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,FNUC,R=F		
<b>NGC 1068</b>	<b>Cet</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>Cet</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>Cet</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 1077</b>	<b>Per</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 1081</b>	<b>Eri</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>Eri</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 1086</b>	<b>Per</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 1087</b>	<b>Cet</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>Cet</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 1097</b>	<b>For</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 1106</b>	<b>Per</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		

# Observations Listing by Catalog Number

<b>NGC 1110</b>	<b>Eri</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>Eri</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 1122</b>	<b>Per</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>Per</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 1132</b>	<b>Eri</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 1138</b>	<b>Per</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 1145</b>	<b>Eri</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 1156</b>	<b>Ari</b>	<b>H619-2</b>	<b>Galaxy IB(s)m</b>	<b>PB,CL,PME0,BET2*</b>
Sep 04 2005 8"	7.5mmW	VF,ML,OVAL,NND,AV,R=F		
<b>NGC 1160</b>	<b>Per</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>Per</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		
<b>NGC 1162</b>	<b>Eri</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>Eri</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 1164</b>	<b>Per</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>Per</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>Per</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		

# Observations Listing by Catalog Number

<b>NGC 1171</b> Oct 25 2009 12"	<b>Per</b> 7.5mmW	F,PS,EON,UB,NND,R=F	<b>Galaxy Scd:</b>	<b>VF,PL,IF</b>
<b>NGC 1172</b> Jan 26 2006 8"	<b>Eri</b> 11mmT6	<b>H502-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy E+:</b>	<b>PF,PL,R,PSBM</b>
<b>NGC 1175</b> Oct 25 2009 12"	<b>Per</b> 7.5mmW	<b>H607-2</b> F,PS,EON,FNUC,R=F	<b>Galaxy SA(r)0+</b>	<b>F,CL,E</b>
<b>NGC 1184</b> Nov 13 2007 8"	<b>Cep</b> 11mmT6	<b>H704-2</b> VF,VS,OVAL,NND,R=F	<b>Galaxy S0/a</b>	<b>F,PL,ME</b>
<b>NGC 1186</b> Oct 25 2009 12"	<b>Per</b> 7.5mmW	<b>H43-4</b> VF,PS,EON,NND,AV,R=F	<b>Galaxy SB</b>	<b>F*W/NEB APPENDAGES</b>
<b>NGC 1187</b> Jan 26 2006 8"	<b>Eri</b> 11mmT6	<b>H245-3</b> MF,MS,OVAL,NND,R=F	<b>Galaxy SB(r)c</b>	<b>PF,CL,PME,GBM*16,R</b>
<b>NGC 1193</b> Oct 09 2007 8"	<b>Per</b> 11mmT6	<b>H608-2</b> PF,PS,LOOSE GROUP, R=F	<b>Open Cluster 14.0 I 2 m</b>	<b>F,CL,ER</b>
<b>NGC 1198</b> Oct 25 2009 12"	<b>Per</b> 7.5mmW	F,PS,OVAL,UB,NND,R=F	<b>Galaxy S0-:</b>	<b>NEB*11</b>
<b>NGC 1199</b> Jan 26 2006 8"	<b>Eri</b> 11mmT6	<b>H503-2</b> VF,VS,R,NND,AV,R-F	<b>Galaxy E3:</b>	<b>CB,PS,IR,SMBM</b>
<b>NGC 1207</b> Nov 10 2012 18" Nov 11 2009 12"	<b>Per</b> 7mm TV 7.5mmW	<b>H578-3</b> PF,VS,OVAL,UB,NND,R=F PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SA(rs)b</b>	<b>CF,VS,R,PSB INNPPEND</b>
<b>NGC 1209</b> Nov 08 2010 12"	<b>Eri</b> 7mm TV	<b>H504-2</b> PF,PS,OVAL,PEXT,FNUC,MSB,R=F	<b>Galaxy E6:</b>	<b>B,S,CE,PSBM</b>
<b>NGC 1213</b> Nov 10 2012 18"	<b>Per</b> 7mm TV	<b>H504-2</b> VF,VS,OVAL,UB,NND,AV2,R=F	<b>Galaxy SA(s)dm</b>	<b>EF,LE,*CLOSEN,DIFFIC</b>
<b>NGC 1220</b> Oct 09 2007 8"	<b>Per</b> 11mmT6	PF,PS,LOOSE GROUP, R=F	<b>Open Cluster 13.0 I 1 p</b>	<b>CL,VS,STVF</b>
<b>NGC 1224</b> Dec 13 2012 18"	<b>Per</b> 7mm TV	PF,PS,R,FNUC,R=G	<b>Galaxy S0-:</b>	<b>EF,VS,R</b>
<b>NGC 1226</b> Oct 31 2010 12"	<b>Per</b> 5.5mmN	CF,PS,R,UB,NND,R=F,AV1	<b>Galaxy E</b>	<b>F,VS,R,BM</b>
<b>NGC 1232</b> Jan 26 2006 8"	<b>Eri</b> 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>

# Observations Listing by Catalog Number

<b>NGC 1233</b>	<b>Per</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>Per</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.		
<b>NGC 1241</b>	<b>Eri</b>	<b>H286-2</b>	<b>Galaxy SB(rs)b</b>	<b>F,PL,R,VGLBM,*9N</b>
Jan 26 2006 8"	11mmT6	DIFF,VF,MS,OVAL,NND,R=F		
<b>NGC 1245</b>	<b>Per</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>Per</b>		<b>Galaxy S0^: 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>Per</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>Per</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>Per</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>Per</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>Per</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>Per</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>Per</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>Per</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>Per</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		

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<b>NGC 1273</b>	<b>Per</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>Per</b>		<b>Galaxy E3</b>	<b>VF,VS</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 1275</b>	<b>Per</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>Per</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>Per</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>Per</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>Per</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 1300</b>	<b>Eri</b>		<b>Galaxy SB(rs)bc</b>	<b>CB,VL,VME,PSVMBM</b>
Jan 26 2006 8"	11mmT6	VF,MS,R,NND,AV,R=F		
<b>NGC 1325</b>	<b>Eri</b>	<b>H77-4</b>	<b>Galaxy SA(s)bc</b>	<b>F,ME239,COM,*9.5ATT</b>
Nov 08 2010 12"	7mm TV	PF,PS,EON,BNUC,MSB,R=G,PA=160		
<b>NGC 1332</b>	<b>Eri</b>	<b>H60-1</b>	<b>Galaxy S(s)0-: sp</b>	<b>VB,S,E114,SMBMN</b>
Nov 08 2010 12"	11mmT6	PF,PS,EON,LFNUC,MSB,R=G,PA=170		
<b>NGC 1342</b>	<b>Per</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 1343</b>	<b>Cas</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 1348</b>	<b>Per</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 1349</b>	<b>Tau</b>		<b>Galaxy S0</b>	<b>EEF,S,R,BET2*</b>
Dec 13 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F		

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<b>NGC 1353</b> Nov 08 2010 12"	<b>Eri</b> 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 1360</b> Dec 28 2008 31"	<b>For</b> 17mmT4	PF,PS,EL,R,R=G, CENTRAL STAR, OIII	<b>Planetary Neb 3</b>	<b>*8IN B,LNEB,E NS</b>
<b>NGC 1400</b> Nov 08 2010 12"	<b>Eri</b> 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"	<b>Eri</b> 5.5mmN	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"	<b>Eri</b> 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"	<b>Eri</b> 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"	<b>Eri</b> 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 1432</b> Oct 29 2006 1.9" Mar 19 2006 8" Mar 19 2004 8" Feb 28 2004 8" Dec 26 2003 8"	<b>Tau</b> 12x50 25mmPL 25mmPL 25mmPL 25mmPL	B,L,R=G B,VL,IRREGULAR SHAPE,R=G 2004 MESSIER MARATHON - ARGO NAVIS COMPTER = ARGO NAVIS Q/M COLD	<b>Nebula R</b>	<b>EF,VL,DIF, MAIA</b>
<b>NGC 1444</b> Nov 21 2006 8"	<b>Per</b> 11mmT6	<b>H80-8</b> F,PS,COMPRESSED,R=F	<b>Open Cluster 6.8 IV 1 p</b>	<b>CL OF AB30*12...14</b>
<b>NGC 1465</b> Oct 10 2012 18" Dec 18 2006 31"	<b>Per</b> 8.8 ES 20mmUW	PF,PS,EON,UB,NND,R=F B,L,EON,NND,R=G	<b>Galaxy S0/a</b>	<b>PF,PS,R,PB*NR P</b>
<b>NGC 1469</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	PF,PS,OVAL,VEXT,FNUC,R=F,PA=45	<b>Galaxy SA0-:</b>	<b>VF,VS,R,B*NR</b>
<b>NGC 1485</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	PF,PS,OVAL,EEXT,UB,NND,R=F,PA=160	<b>Galaxy SAb? sp</b>	<b>EF,PS,R</b>
<b>NGC 1491</b> Oct 31 2010 12"	<b>Per</b> 11mmT6	<b>H258-1</b> PF,S,R=G,UHC FILTER,IRREGULAR IN SHAPE	<b>Nebula E</b>	<b>VB,S,IF,BM,R,*INV</b>
<b>NGC 1501</b> Oct 06 2004 8"	<b>Cam</b> 11mmT6	<b>H53-4</b> MB,OVAL,HISB,R=G	<b>Planetary Neb 3</b>	<b>PLN,PB,PS,VLE,1'DIAM</b>

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<b>NGC 1502</b>	<b>Cam</b>	<b>H47-7</b>	<b>Open Cluster 7.0 I 3 m</b>	<b>CL,PRI,CC,IF</b>
Nov 26 2006 1.9"	12x50	COMPACT, BRIGHT, R=G		
Oct 06 2004 8"	11mmT6	OVAL,HISB,R=E		
<b>NGC 1507</b>	<b>Eri</b>	<b>H279-2</b>	<b>Galaxy SB(s)m pec?</b>	<b>VF,PL,ME,VLBM,ER</b>
Nov 08 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 1508</b>	<b>Tau</b>		<b>Galaxy Sc</b>	<b>VF,VS,R,BM,R</b>
Dec 18 2006 31"	20mmUW	PF,PS,OVAL,NND,R=F		
<b>NGC 1513</b>	<b>Per</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 1514</b>	<b>Tau</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>Tau</b>		<b>Galaxy Scd:</b>	<b>VF,VS,R,R,*9,10SF</b>
Dec 18 2006 31"	20mmUW	CF,CS,OVAL,NND,R=F		
<b>NGC 1528</b>	<b>Per</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 1530</b>	<b>Cam</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 1534</b>	<b>Ret</b>		<b>Galaxy SA(rs)0/a: sp</b>	<b>F,S,R,VS*3/4D SF</b>
Dec 18 2006 31"	20mmUW	F,S,R=P,HINT OF NEBULOSITY.		
<b>NGC 1535</b>	<b>Eri</b>	<b>H26-4</b>	<b>Planetary Neb 4+2c</b>	<b>PLN,VB,S,R,PS,VSBM,R</b>
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
Nov 11 2009 12"	7.5mmW	B,PS,R=G, NO CENTRAL STAR NOTED.		
Dec 28 2008 31"	17mmT4	VB,PS,R,R=G,BRIGHT CENTRAL STAR!!, OIII		
Nov 21 2006 8"	11mmT6	B,PS,R, NO CENTRAL STAR,R=F		
<b>NGC 1539</b>	<b>Tau</b>		<b>Galaxy C</b>	<b>VF,VS,GBM</b>
Dec 18 2006 31"	20mmUW	PF,S,R,NND,R=F		
<b>NGC 1544</b>	<b>Cep</b>		<b>Galaxy S?</b>	<b>VF,VS</b>
Jul 31 2011 12"	5mm TV	VF,VS,R,UB,NND,R=F		
<b>NGC 1545</b>	<b>Per</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 1554</b>	<b>Tau</b>		<b>Nebula R</b>	<b>VAR,S,R,NN=*13</b>
Nov 23 2006 8"	19mmW	F,PS,DIM PATCH,R=F		

# Observations Listing by Catalog Number

<b>NGC 1560</b>	<b>Cam</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>Cam</b>	<b>H768-2</b>	<b>Galaxy IBm</b>	<b>PB,S,LE,BNM,*9.5N1'</b>
Oct 12 2012 18"	7mm TV		PF,PS,OVAL,PEXT,FNUC,R=G,DISTURBED NE CORNER,PA=45	
<b>NGC 1573</b>	<b>Cam</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 1579</b>	<b>Per</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>Per</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 1587</b>	<b>Tau</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>Tau</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>Tau</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 1600</b>	<b>Eri</b>	<b>H158-1</b>	<b>Galaxy E3</b>	<b>PB,PL,R,GMBM</b>
Nov 08 2010 12"	11mmT6		PF,LPS,R,FNUC,MSB,R=F	
<b>NGC 1605</b>	<b>Per</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 1615</b>	<b>Tau</b>		<b>Galaxy SA0-:</b>	<b>VF,VS,R,LBM,VS*INV</b>
Dec 18 2006 31"	20mmUW		F,S,OVAL,NND,R=F	
<b>NGC 1618</b>	<b>Eri</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>Eri</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 1624</b>	<b>Per</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>NGC 1637</b>	<b>Eri</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	



# Observations Listing by Catalog Number

<b>NGC 1647</b>	<b>Tau</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 1653</b>	<b>Eri</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 1661</b>	<b>Ori</b>		<b>Galaxy SA(s)bc pec:</b>	<b>VF,VS,BM</b>
Feb 03 2005 31"	11mmT6	VF,MS,EL,OVAL,PATCH,NND,R=F		
<b>NGC 1662</b>	<b>Ori</b>	<b>H1-7</b>	<b>Open Cluster 9.0 II 3 m</b>	<b>CL OF L\$S SC ST</b>
Nov 04 2007 1.9"	12x50	B,S,STARS 12+,R=F		
<b>NGC 1663</b>	<b>Ori</b>	<b>H7-8</b>	<b>Open Cluster IV 2 p c</b>	<b>CL,LRI,ST L\$S</b>
Apr 09 2008 8"	11mmT6	PF,PS,R=F		
<b>NGC 1664</b>	<b>Aur</b>	<b>H59-8</b>	<b>Open Cluster 10.0 III 1 p</b>	<b>CL,LRI,LC,PL</b>
Dec 28 2006 1.9"	12x50	F,S,PATCHY,AV,UNRESOLVED,R=F		
Jan 26 2006 8"	19mmW	R=F,NOT TOO BAD		
<b>NGC 1667</b>	<b>Eri</b>		<b>Galaxy SBc</b>	<b>PF,PS,R,(R)</b>
Dec 15 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
<b>NGC 1682</b>	<b>Ori</b>	<b>H527-2</b>	<b>Galaxy E/S0</b>	<b>VF,VS,1684F12S,*9S4'</b>
Dec 04 2004 8"	11mmT6	VF,R,NND,AV,R=F		
<b>NGC 1683</b>	<b>Ori</b>		<b>Galaxy Sa</b>	<b>VF,R</b>
Feb 03 2005 31"	11mmT6	DIFF,MB,MS,EL,OVAL,NND,R=G		
<b>NGC 1684</b>	<b>Ori</b>	<b>H528-2</b>	<b>Galaxy E+ pec:</b>	<b>PF,PS,R,BM,*9SF</b>
Dec 15 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
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>	<b>Ori</b>		<b>Galaxy (R)SB(s)0/a:</b>	<b>F,S,*11INV</b>
Feb 03 2005 31"	11mmT6	VF,MS,OVAL,NND,R=F		
<b>NGC 1700</b>	<b>Eri</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 1708</b>	<b>Cam</b>		<b>Open Cluster 10.0 cluster? CL,VL,PRI,LC,ST L\$S</b>	
Apr 14 2016 12"	8mm Ds	F,R=F,12-14 LOOSE GROUPING		
<b>NGC 1721</b>	<b>Eri</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>Eri</b>		<b>Galaxy SB(r)a pec</b>	<b>F,BET2*9,10N\$S,3RD*F</b>
Dec 04 2004 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		

# Observations Listing by Catalog Number

<b>NGC 1725</b> Dec 04 2004 8"	<b>Eri</b> 11mmT6	VF,OVAL,NND,AV,R=F	<b>Galaxy E/S0</b>	<b>EF,VS,R</b>
<b>NGC 1726</b> Dec 15 2004 8"	<b>Eri</b> 11mmT6	MF,OVAL,FNUC,R=G	<b>Galaxy SA(s)0^:</b>	<b>F,R,*13,S</b>
<b>NGC 1728</b> Dec 04 2004 8"	<b>Eri</b> 11mmT6	VF,EON,NND,AV,R=F	<b>Galaxy Sa pec sp</b>	<b>VF,VS,R</b>
<b>NGC 1729</b> Nov 21 2006 8"	<b>Ori</b> 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 1730</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	PF,S,OVAL,NND,R=F	<b>Galaxy SB(r)a</b>	<b>F,PS,LE,BET2F*</b>
<b>NGC 1738</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB(s)bc pec:</b>	<b>VF,S,E45</b>
<b>NGC 1744</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	DIFF,F,PL,OVAL,NND,R=F	<b>Galaxy SB(s)d</b>	<b>F,VL,VME,VGVLBM</b>
<b>NGC 1746</b> Nov 04 2007 1.9" Dec 15 2004 8"	<b>Tau</b> 12x50 11mmT6	PB,PL,R=F R,MSB,R=G	<b>Open Cluster 8.0 III 2 p</b>	<b>CL,P</b>
<b>NGC 1750</b> Dec 15 2004 8"	<b>Tau</b> 11mmT6	<b>H43-8</b> R,MSB,R=G	<b>Open Cluster OCL</b>	<b>CL,ST L,VCSC</b>
<b>NGC 1762</b> Apr 09 2008 8"	<b>Ori</b> 11mmT6	<b>H453-3</b> PF,PS,OVAL,NND,USB,R=F	<b>Galaxy SA(rs)c:</b>	<b>VF,VS</b>
<b>NGC 1778</b> Dec 28 2006 1.9" Jan 26 2006 8"	<b>Aur</b> 12x50 19mmW	<b>H61-8</b> PF,PS,PATCHY,AV,UNRESOLVED,R=F R=P FEW STARS	<b>Open Cluster 10.1 III 2 p</b>	<b>CL,PC,LRI,IF,ST L</b>
<b>NGC 1779</b> Nov 24 2006 8"	<b>Eri</b> 11mmT6	<b>H500-3</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy (R')SAB(r)0/a?</b>	<b>PB,S,R,GPMBM</b>
<b>NGC 1784</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	PF,L,OVAL,NND,AV,R=F	<b>Galaxy SB(r)c</b>	<b>PB,PL,VLE,VGBM,AM ST</b>
<b>NGC 1788</b> Nov 21 2006 8"	<b>Ori</b> 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 1807</b> Nov 04 2007 1.9" Nov 09 2006 8" Dec 15 2004 8"	<b>Tau</b> 12x50 19mmW 11mmT6	B,S,PAIR W/NGC 1817,R=F F.S.COMPRESSED,R=F SMALL, FEWER STARTS R=F	<b>Open Cluster 9.0 II 2 p</b>	<b>CL,PRI,ST L\$S</b>

# Observations Listing by Catalog Number

<b>NGC 1808</b> Nov 22 2006 8"	<b>Col</b> 11mmT6	F,L,OVAL,NND,R=F	<b>Galaxy (R)SAB(s)a</b>	<b>B,L,E,PSBM</b>
<b>NGC 1817</b> Nov 04 2007 1.9" Nov 09 2006 8" Dec 15 2004 8"	<b>Tau</b> 12x50 19mmW 11mmT6	<b>H4-7</b> B,S,PAIR W/NGC 1807,R=F F,PS,R=F SMALL, MANY STARS R=G	<b>Open Cluster 9.0 IV 2 r</b>	<b>CL,L,RI,LC,ST11...14</b>
<b>NGC 1821</b> Feb 20 2006 31"	<b>Lep</b> 17mmT4	MB,MS,OVAL,FNUC,R=G	<b>Galaxy IB(s)m</b>	<b>VF,VS,LE</b>
<b>NGC 1832</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	<b>H292-2</b> VF,PL,OVAL,NND,AV,R=F	<b>Galaxy SB(r)bc</b>	<b>PB,IR,MBM,C*NF1'</b>
<b>NGC 1843</b> Nov 21 2006 8"	<b>Ori</b> 11mmT6	VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SAB(s)cd:</b>	<b>F,S,R,LBM</b>
<b>NGC 1857</b> Dec 28 2006 1.9" Jan 26 2006 8"	<b>Aur</b> 12x50 19mmW	<b>H33-7</b> F,S,PATCHY,UNRESOLVED,R=F R=P, FEW STARS	<b>Open Cluster 11.0 I 3 m</b>	<b>CL,PRI,PC,ST7...</b>
<b>NGC 1883</b> Jan 26 2006 8"	<b>Aur</b> 19mmW	<b>H34-7</b> R=F, FAINT TIGHT GROUP	<b>Open Cluster 14.0 II 1 m</b>	<b>CL,VF,PRI,PC,IF</b>
<b>NGC 1888</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	<b>H289-2</b> PF,S,EL,OVAL,R=F	<b>Galaxy SB(s)c pec</b>	<b>PB,PL,R,R</b>
<b>NGC 1893</b> Nov 26 2006 1.9" Jan 26 2006 8"	<b>Aur</b> 12x50 19mmW	F,S,R=F R=F,DECENT *STARS	<b>Open Cluster 9.3 II 3 r n</b>	<b>CL,L,RI,LC</b>
<b>NGC 1904</b> Feb 21 2020 36" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 26 2006 8" Mar 19 2004 8" Dec 26 2003 8"	<b>Lep</b> 17mmT4 17mmAT 17mmAT 26mm 26mm 19mmW 25mmPL 25mmPL	<b>M79</b> F,L,R=G 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 B,PS,,TIGHT,R=F 2004 MESSIER MARATHON - ARGO NAVIS Q/M COLD	<b>Globular</b>	<b>GCL,PL,ERI,EC,RRR</b>
<b>NGC 1907</b> Jan 25 2018 12" Oct 02 2006 1.9" Jan 26 2006 8"	<b>Aur</b> 11mmT6 12x50 19mmW	<b>H39-7</b> NICE OBJECT CB,CS,R=F. R=G, SMALL, TIGHT, BRIGHT	<b>Open Cluster 11.0 I 1 m n</b>	<b>CL,PRI,PC,R,ST9...12</b>

# Observations Listing by Catalog Number

<b>NGC 1912</b>	<b>Aur</b>	<b>M38</b>	<b>Open Cluster 8.0 II 2 r</b>	<b>CL,B,VL,VRI,IF,STL\$\$</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING.		
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		
Dec 16 2009 12"	20mmUW			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS		
Oct 29 2006 8"	19mmW	B,PL,R,R=G		
Oct 02 2006 1.9"	12x50	PB,S, R=G		
Mar 19 2006 8"	25mmPL	B,L,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		

<b>NGC 1924</b>	<b>Ori</b>	<b>H447-3</b>	<b>Galaxy SB(r)bc</b>	<b>VF,PL,IR,ST NR</b>
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		

<b>NGC 1931</b>	<b>Aur</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 1952</b>	<b>Tau</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"	20mmUW			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Oct 29 2006 1.9"	12x50	F,PS,R,R=F		
Mar 26 2006 8"	19mmW	DIFF,F,L,R=F		
Mar 19 2006 8"	19mmW	B,L,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		

<b>NGC 1954</b>	<b>Lep</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		

# Observations Listing by Catalog Number

<b>NGC 1960</b>	<b>Aur</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"	20mmUW			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS		
Oct 29 2006 8"	19mmW	PB,PL,R,R=G		
Oct 02 2006 1.9"	12x50	PB,S, R=G, SMALLEST OF THREE		
Mar 19 2006 8"	25mmPL	B,ML,R=G. BETTER		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 1961</b>	<b>Cam</b>	<b>H747-3</b>	<b>Galaxy SAB(rs)c</b>	<b>CF,PL,IF,MBM,ER,*INV</b>
Nov 03 2004 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
<b>NGC 1964</b>	<b>Lep</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 1975</b>	<b>Ori</b>		<b>Nebula E</b>	<b>B**INV IN NEB</b>
Nov 21 2006 8"	11mmT6	B,L,R=G, STARS GLOW		
Feb 20 2006 31"	31mmT5	MB,ML,R=G, OIII		
<b>NGC 1976</b>	<b>Ori</b>	<b>M42</b>	<b>Nebula EN+RN</b>	<b>THETAORI \$GREAT NEB</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUW			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Dec 28 2008 31"	17mmT4	VB,VL,R=E, TRAP=6 STARS		
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS		
Sep 08 2006 1.9"	12x50	DFF,MB,PL PATCH OF NEB.,R=G		
Apr 17 2006 8"	19mmW	PB,PL,HISB,R=E		
Mar 19 2006 8"	19mmW	PB,PL,R=E		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 1977</b>	<b>Ori</b>	<b>H30-5</b>	<b>Open Cluster</b>	<b>42ORIONIS\$NEB</b>
Feb 20 2006 31"	31mmT5	B,R=F, STARS LIGHT UP B.N., OIII		
<b>NGC 1979</b>	<b>Lep</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		

# Observations Listing by Catalog Number

<b>NGC 1980</b>	<b>Ori</b>	<b>H31-5</b>	<b>Nebula III 3 m n</b>	<b>VF,VVL,44ORIONIS INV</b>
Mar 29 2006 8"	19mmW	PB,L,R=F		
<b>NGC 1981</b>	<b>Ori</b>		<b>Open Cluster 10.0 III 3 p n</b>	<b>CL,VB,LRI,ST L,SC</b>
Nov 04 2007 1.9"	12x50	PB,L,STARS 10+,R=F		
Apr 17 2006 8"	19mmW	PB,L,R=F, SCATTERED STARS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 1982</b>	<b>Ori</b>	<b>M43 H1-3</b>	<b>Nebula E</b>	<b>VB,VL,RW/TAIL,MBM*8</b>
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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"	20mmUW			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS		
Sep 08 2006 1.9"	12x50	DFF,B,LPATCH OF NEB.,R=G		
Mar 19 2006 8"	19mmW	PB,PL,R=E		
Mar 06 2005 8"	11mmT6	VB,VL,VHISB,R=E!!!, OIII FILTER		
Feb 03 2005 31"	11mmT6	480X+,TRAPEZIUM!!!!		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 1985</b>	<b>Aur</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 1990</b>	<b>Ori</b>	<b>H34-5</b>	<b>Nebula E+R</b>	<b>EL,E,EPSILONORI INV P</b>
Mar 28 2011 12"	17mmAT	PF,PS,R=F,OIII FILTER, SOME NEBULOSITY?		
<b>NGC 1999</b>	<b>Ori</b>	<b>H33-4</b>	<b>Nebula E</b>	<b>*10,11INV IN NEB</b>
Feb 20 2006 31"	31mmT5	MB.ML,R=F, OIII		
<b>NGC 2022</b>	<b>Ori</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>Ori</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>Ori</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>Ori</b>		<b>Non-Existent</b>	<b>*8,9W/ F NEB</b>
Mar 20 2007 8"	11mmT6	SINGLE STAR,R=P		

# Observations Listing by Catalog Number

**NGC 2068**      **Ori**      **M78**      **Nebula R**      **B,L,WISP,GMBN,3\*INV**  
 Mar 16 2012 18" 17mmAT 2012 M.M.  
 Feb 17 2012 18" 17mmT4 OBSERVED WITH 18" ASTROSYSTEMS  
 Mar 01 2011 12" 17mmAT M.M. 2011 - MANUAL SETTING CIRCLES  
 Mar 08 2010 12" 26mm M.M. 2010 MANUAL SETTING CIRCLES  
 Dec 16 2009 12" 20mmUW  
 Mar 20 2009 16" 26mm MESSIER MARATHON - 2009  
 Mar 17 2007 1.9" 12x50 M.M. BETWEEN CLOUDS  
 Oct 29 2006 1.9" 12x50 F,S,R=F  
 Mar 19 2006 8" 19mmW B,L,R=F  
 Mar 19 2004 8" 25mmPL 2004 MESSIER MARATHON - ARGO NAVIS  
 Dec 26 2003 8" 25mmPL Q/M COLD

**NGC 2071**      **Ori**      **H36-4**      **Nebula R**      **D\*10\$14 W/VF,L CHEV**  
 Nov 21 2006 8" 11mmT6 PF,PS,R=F

**NGC 2073**      **Lep**      **H241-3**      **Galaxy SA(rs)0-**      **EF,VS,R,GBM**  
 Nov 22 2006 8" 11mmT6 VF,VS,R,NND,AV,R=F

**NGC 2099**      **Aur**      **M37**      **Open Cluster 11.0 I 2 r**      **CL,RI,PCM,ST L\$\$**  
 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" 20mmUW  
 Mar 20 2009 16" 26mm MESSIER MARATHON - 2009  
 Mar 17 2007 1.9" 12x50 M.M. BETWEEN CLOUDS  
 Oct 29 2006 8" 19mmW CB,CL,R,R=G  
 Oct 02 2006 1.9" 12x50 PB,L,R=G, LARGEST OF THREE  
 Mar 19 2006 8" 25mmPL B,ML,R=E. TIGHTER GROUP. BEST OF 3  
 Apr 05 2004 8" 25mmPL FULLMOON - \*\*MEGASTAR CONTROL\*\*  
 Mar 19 2004 8" 25mmPL 2004 MESSIER MARATHON - ARGO NAVIS  
 Feb 28 2004 8" 25mmPL COMPTER = ARGO NAVIS  
 Dec 26 2003 8" 25mmPL Q/M COLD

**NGC 2106**      **Lep**      **Galaxy SB(s)0^**      **VF,S,VLE,GBM**  
 Nov 22 2006 8" 11mmT6 VF,VS,OVAL,NND,AV,R=F

**NGC 2112**      **Ori**      **H24-7**      **Open Cluster 10.0 II 2 m n**      **CL,PL,LRI,PC,ST S**  
 Nov 21 2006 8" 11mmT6 F,S,LOOSER,R=F

**NGC 2124**      **Lep**      **H225-3**      **Galaxy SA(s)b?**      **EEF,PS,E,R**  
 Nov 22 2006 8" 11mmT6 VF,CS,EON,NND,R=F

**NGC 2126**      **Aur**      **H68-8**      **Open Cluster 13.0 III 2 m**      **CL,NOT RI,\*7M NORTH**  
 Jan 26 2006 8" 19mmW R=F, SMALL, LOOSE , GROUP

# Observations Listing by Catalog Number

<b>NGC 2128</b>	<b>Cam</b>		<b>Galaxy S0-:</b>	<b>VF,VS,VLE</b>
Oct 12 2012 18"	7mm TV	PF,PS,OVAL,FNUC,R=F		
<b>NGC 2129</b>	<b>Gem</b>	<b>H26-8</b>	<b>Open Cluster 10.0 I 3 m</b>	<b>CL,PL,40OR50ST8...15</b>
Dec 15 2004 8"	11mmT6	R, R=G		
<b>NGC 2139</b>	<b>Lep</b>	<b>H264-2</b>	<b>Galaxy SAB(rs)cd</b>	<b>F,S</b>
Nov 22 2006 8"	11mmT6	VF,PS,OVAL,NND,R=F		
<b>NGC 2141</b>	<b>Ori</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 2146</b>	<b>Cam</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>Cam</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 2158</b>	<b>Gem</b>	<b>H17-6</b>	<b>Open Cluster 15.0 II 3 r</b>	<b>CL,PS,MC,VRI,IRRTRI</b>
Dec 04 2004 8"	11mmT6	OVAL,R=F		
<b>NGC 2168</b>	<b>Gem</b>	<b>M35</b>	<b>Open Cluster 8.0 III 3 r</b>	<b>CL,VL,CRI,PC,ST9..16</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"	20mmUW			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Dec 28 2006 1.9"	12x50	B,L,RESOLVE OUTER STARS,R=G		
Oct 02 2006 1.9"	12x50	VB,VL,R=E. VERY NICE CLUSTER.		
Mar 19 2006 8"	19mmW	PB,PL,R=G. LOTS OF STARS		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 2169</b>	<b>Ori</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 2170</b>	<b>Mon</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 2179</b>	<b>Lep</b>		<b>Galaxy SA(s)0/a</b>	<b>F,PS,VME,GLBM</b>
Nov 22 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2182</b>	<b>Mon</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		



# Observations Listing by Catalog Number

<b>NGC 2183</b> Mar 13 2007 8"	<b>Mon</b> 11mmT6		<b>Nebula R</b> PF,PS,R=F,HINT OF NEBULOSITY	<b>EF,S,LE,*11,12SP</b>
<b>NGC 2185</b> Mar 13 2007 8"	<b>Mon</b> 11mmT6	<b>H20-4</b>	<b>Nebula R</b> PF,PS,R=F,HINT OF NEBULOSITY	<b>*11\$4S*IN VF,L,NEB</b>
<b>NGC 2186</b> Mar 29 2006 8"	<b>Ori</b> 11mmT6	<b>H25-7</b>	<b>Open Cluster 12.0 II 2 m</b> F,S,R=F	<b>CL,PL,PRI,PC,ST L\$S</b>
<b>NGC 2192</b> Jan 26 2006 8"	<b>Aur</b> 19mmW	<b>H57-7</b>	<b>Open Cluster 14.0 II 2 m</b> R=F, SMALL, LOOSE , GROUP	<b>CL,CL,C,IF,ST VS</b>
<b>NGC 2194</b> Mar 29 2006 8"	<b>Ori</b> 11mmT6	<b>H5-6</b>	<b>Open Cluster 13.0 II 2 r</b> F,S,R=F	<b>CL,L,RI,GVMCM</b>
<b>NGC 2196</b> Nov 22 2006 8"	<b>Lep</b> 11mmT6	<b>H265-2</b>	<b>Galaxy (R')SA(s)a</b> VF,PS,OVAL,NND,AV,R=F	<b>PF,PS,VLE,PMBM,ST NR</b>
<b>NGC 2204</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6	<b>H13-7</b>	<b>Open Cluster 13.0 II 2 r</b> DIFFUSED,ML,R,R=G	<b>CL,L,PRI,LC</b>
<b>NGC 2206</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6		<b>Galaxy SAB(rs)bc:</b> VF,VS,NND,AV,R=F	<b>F,PS,VLE,PSLBM</b>
<b>NGC 2207</b> Dec 19 2006 31" Feb 10 2005 8"	<b>CMa</b> 17mmT4 11mmT6		<b>Galaxy SAB(rs)bc pec</b> PB,CL,EON,BNUC,HISB,R=G VF,EL,OVAL,NND,AV,R=F	<b>PB,PL,ME87,PSLBMRN</b>
<b>NGC 2215</b> Mar 29 2006 8"	<b>Mon</b> 19mmW	<b>H20-7</b>	<b>Open Cluster 11.0 II 2 m</b> F,S,R=F	<b>CL,CL,PRI,PC,ST11.15</b>
<b>NGC 2217</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6		<b>Galaxy (R)SB(rs)0+</b> MF,MS,OVAL,FNUC,R=G	<b>VB,S,R,PSMBM,R</b>
<b>NGC 2223</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6		<b>Galaxy SAB(r)b</b> MF,ML,OVAL,FNUC,R=G	<b>F,PL,R,VGLBM,2STINV</b>
<b>NGC 2227</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6		<b>Galaxy SB(rs)c</b> MB,MS,OVAL,FNUC.R=G	<b>EF,R,** 90"P</b>
<b>NGC 2232</b> Mar 13 2007 8" Mar 08 2007 1.9" Mar 09 2004 8"	<b>Mon</b> 19mmW 12x50 25mmPL	<b>H25-8</b>	<b>Open Cluster 5.0 III 2 p</b> PB,PL,R=F,LOOSE GROUP FB,S,LOOSE,R=F COMPTER = ARGO NAVIS	<b>B* 10MON +CL</b>
<b>NGC 2236</b> Nov 25 2006 8"	<b>Mon</b> 11mmT6	<b>H5-7</b>	<b>Open Cluster 12.0 II 2 m</b> CB,CL,LOOSE,R=F	<b>CL,PRI,PC,*10,12..15</b>

# Observations Listing by Catalog Number

<b>NGC 2237</b>	<b>Mon</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 2243</b>	<b>CMa</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 2244</b>	<b>Mon</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>Mon</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>Mon</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>Mon</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		
<b>NGC 2252</b>	<b>Mon</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 2253</b>	<b>Cam</b>	<b>H54-7</b>	<b>Open Cluster</b>	<b>VF,ST ES</b>
Mar 28 2011 12"	5mm TV	NON-EXISTENT PER NGC/IC PROJECT.		
<b>NGC 2254</b>	<b>Mon</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 2256</b>	<b>Cam</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>Cam</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 2259</b>	<b>Mon</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>Mon</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>Mon</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 2263</b>	<b>CMa</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		

# Observations Listing by Catalog Number

<b>NGC 2264</b>	<b>Mon</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 = ARGONAVIS		
<b>NGC 2266</b>	<b>Gem</b>	<b>H21-6</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PS,EC,RI,ST11..15</b>
Mar 04 2006 8"	19mmW	MB,S,R=F		
<b>NGC 2268</b>	<b>Cam</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 2269</b>	<b>Mon</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 2272</b>	<b>CMa</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 2273</b>	<b>Lyn</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>Lyn</b>		<b>Galaxy SB(rs)cd:</b>	
Nov 10 2012 18"	7mm TV	DIFF,VF,PS,OVAL,UB,NND,AV2,R=F		
<b>NGC 2274</b>	<b>Gem</b>	<b>H615-2</b>	<b>Galaxy E</b>	<b>F,S,BM</b>
Apr 09 2008 8"	11mmT6	PF,VS,EON,NND,LSB,AV,R=F		
<b>NGC 2276</b>	<b>Cep</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 2280</b>	<b>CMa</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 2281</b>	<b>Aur</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>NGC 2282</b>	<b>Mon</b>		<b>Nebula R</b>	<b>*10IN F,R,NEBY</b>
Nov 25 2006 8"	11mmT6	F,S,R=F,SOMENEUBULA		
<b>NGC 2283</b>	<b>CMa</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 2286</b>	<b>Mon</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		

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<b>NGC 2287</b>	<b>CMa</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 2289</b>	<b>Gem</b>	<b>H898-3</b>	<b>Galaxy S0</b>	<b>EF,VS</b>
Sep 24 2016 12"	17mmT4	B,L,R=E. CAROLINE'S ROSE.		
<b>NGC 2293</b>	<b>CMa</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>CMa</b>		<b>Nebula E</b>	<b>VF,VS,R</b>
Mar 20 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 2300</b>	<b>Cep</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 2301</b>	<b>Mon</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>Mon</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 2304</b>	<b>Gem</b>	<b>H2-6</b>	<b>Open Cluster II 1 m</b>	<b>CL,PL,RI,MC,ST VS</b>
Mar 04 2006 8"	19mmW	F,S,R=F		
<b>NGC 2309</b>	<b>Mon</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>Mon</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 2314</b>	<b>Cam</b>		<b>Galaxy E3</b>	<b>VF,S,R</b>
Feb 01 2005 31"	17mmT4	MB,ML,EL,FNUC,MSB,R=G		
<b>NGC 2315</b>	<b>Lyn</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 2316</b>	<b>Mon</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		

# Observations Listing by Catalog Number

<b>NGC 2320</b> Nov 10 2012 18"	<b>Lyn</b> 7mm TV	<b>H861-2</b> PF,PS,OVAL,FNUC,R=F	<b>Galaxy E</b>	<b>PB,S,IR,GBM,*8SP</b>
<b>NGC 2321</b> Nov 10 2012 18"	<b>Lyn</b> 7mm TV	<b>H861-2</b> VF,PS,OVAL,UB,NND,AV2,R=F	<b>Galaxy SBa</b>	<b>VF,12'N OF2320</b>
<b>NGC 2322</b> Nov 10 2012 18"	<b>Lyn</b> 7mm TV	<b>H874-3</b> PF,VS,OVAL,VEXT,HSB,R=G	<b>Galaxy SBa:</b>	<b>VF,VS,LE</b>
<b>NGC 2323</b> Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 08 2007 1.9" Mar 19 2006 8" Mar 19 2004 8" Mar 09 2004 8"	<b>Mon</b> 17mmAT 17mmAT 26mm 26mm 12x50 25mmPL 25mmPL 25mmPL	<b>M50</b> 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 B,PL,RICH PATCH, RESOLVE 7+ STARS B,ML,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPTER = ARGO NAVIS	<b>Open Cluster 9.0 II 3 r</b>	<b>CL,VL,RI,PC,E,</b>
<b>NGC 2324</b> Nov 25 2006 8"	<b>Mon</b> 11mmT6	<b>H38-7</b> F,SMALL-COMPRESSED,R=G	<b>Open Cluster 12.0 II 2 r</b>	<b>CL,L,RI,CC,ST12...16</b>
<b>NGC 2325</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6	<b>H38-7</b> MF,MS,OVA,PATCHY,NND,R=F	<b>Galaxy E4</b>	<b>PB,PL,LE,GBM</b>
<b>NGC 2326</b> Nov 10 2012 18"	<b>Lyn</b> 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"	<b>Lyn</b> 7mm TV	<b>H734-2</b> VF,VS,OVAL,UB,NND,AV2,R=F	<b>Galaxy SA(s)m:</b>	
<b>NGC 2327</b> Mar 28 2011 12"	<b>CMa</b> 7mm TV	<b>H25-4</b> SMALL,FAINT,R=F,OIII	<b>Nebula</b>	<b>PB**INV INS,VF,NEB</b>
<b>NGC 2331</b> Apr 09 2008 8" Nov 25 2006 8"	<b>Gem</b> 11mmT6 11mmT6	<b>H40-8</b> F,S,SCATTERED,R=F F,LOOSE GROUP,R=F	<b>Open Cluster 9.0 IV 2 m</b>	<b>CL,L,VLC,S CL INV</b>
<b>NGC 2332</b> Nov 10 2012 18"	<b>Lyn</b> 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 2335</b> Mar 29 2006 8"	<b>Mon</b> 19mmW	<b>H32-8</b> F,PS,R=F	<b>Open Cluster 10.0 III 2 m n</b>	<b>CL,L,LC</b>
<b>NGC 2336</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	<b>H32-8</b> F,S,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SAB(r)bc</b>	<b>PB,PL,R,2*11NR</b>
<b>NGC 2337</b> Nov 16 2012 18"	<b>Lyn</b> 7mm TV	<b>H32-8</b> PF,PS,OVAL,UB,R=G	<b>Galaxy IBm</b>	<b>EF,S,E</b>

# Observations Listing by Catalog Number

<b>NGC 2339</b> Dec 15 2004 8"	<b>Gem</b> 11mmT6	<b>H769-2</b> VF,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)bc</b>	<b>PB,PL,R,GLBM</b>
<b>NGC 2340</b> Nov 16 2012 18" Feb 01 2005 31"	<b>Lyn</b> 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 2342</b> Nov 25 2006 8"	<b>Gem</b> 11mmT6	<b>H769-2</b> VF,S,R,NND,AV,R=F	<b>Galaxy S pec</b>	<b>PF,S,LE,VLBM</b>
<b>NGC 2343</b> Mar 29 2006 8"	<b>Mon</b> 19mmW	<b>H33-8</b> F,PS,R=F	<b>Open Cluster 8.0 II 2 p n</b>	<b>CL,CL,P,LC</b>
<b>NGC 2345</b> Feb 10 2005 8"	<b>CMa</b> 11mmT6	<b>H769-2</b> ML,R=G	<b>Open Cluster 9.0 II 3 r</b>	<b>CL,PL,PRI,GBM,*10.14</b>
<b>NGC 2346</b> Feb 17 2012 18" Apr 09 2008 8"	<b>Mon</b> 11mmT6 11mmT6	<b>H65-4</b> OIII FILTER - VERY NICE PLANETARY PF,PS,NO CENTRAL STAR,R=F	<b>Planetary Neb 3b+4</b>	<b>*10AFF W/ S,VF,NEB</b>
<b>NGC 2347</b> Feb 01 2005 31"	<b>Cam</b> 17mmT4	<b>H746-3</b> VB,ML,OVAL,SNUC,HISB,R=G	<b>Galaxy (R')SA(r)b:</b>	<b>VF,S,R,LBM</b>
<b>NGC 2350</b> Mar 13 2007 8"	<b>CMi</b> 11mmT6	<b>H769-2</b> PB,S,R=F,RESOLVE 12+ STARS	<b>Galaxy S0/a</b>	<b>EF,ES,IR</b>
<b>NGC 2351</b> Feb 17 2012 18"	<b>CMa</b> 17mmT4	<b>H769-2</b> OIII FILTER - THOR'S HELMUT - GREAT OBJECT	<b>Non-Existent</b>	<b>CL,LC,**TAKEN</b>
<b>NGC 2353</b> Mar 29 2006 8"	<b>Mon</b> 19mmW	<b>H34-8</b> SMALLER, BRIGHTER,L,R=G	<b>Open Cluster 9.0 III 3 p</b>	<b>CL,L,LC,ONEVB*</b>
<b>NGC 2354</b> Mar 13 2004 8"	<b>CMa</b> 25mmPL	<b>H16-7</b> COMPUTER = ARGO NAVIS	<b>Open Cluster 9.1 III 2 r</b>	<b>CL,CRI,LC</b>
<b>NGC 2355</b> Mar 04 2006 8"	<b>Gem</b> 19mmW	<b>H6-6</b> B,S,R=F	<b>Open Cluster 13.0 II 2 m</b>	<b>CL,PS,PRI,MC,*15..16</b>
<b>NGC 2359</b> Dec 12 2012 36" Apr 14 2010 16" Dec 28 2008 31" Mar 10 2007 8" Dec 20 2006 31" Dec 19 2006 31"	<b>CMa</b> 17mmT4 26mm 31mmT5 19mmW 31mmT5 31mmT5	<b>H21-5</b> OUSTANDING OBJECT WOIII FILTER AND VERY GOOD TRANSPARENCY. PB,PL,OVAL,UB,NND.R=G PB,PL,R=E!!, BEAUTIFUL PB,L,NEBULOSITY,R=G,OIII FILTER VB,EL,NEBULOSITY!!,R=E!!!!,OIII FILTER PB,EL,PATCH,R=E,HINT-NEBULOSITY,NO FILTER	<b>Nebula E</b>	<b>VF,VVL,VIF</b>

# Observations Listing by Catalog Number

<b>NGC 2360</b>	<b>CMa</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>CMa</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 2363</b>	<b>Cam</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>Cam</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 2367</b>	<b>CMa</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 2368</b>	<b>Mon</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 2371</b>	<b>Gem</b>	<b>H316-2</b>	<b>Planetary Neb 3a+2</b>	<b>B,S,R,BMN,P OF DNEB</b>
Feb 23 2006 31"	19mmW	FAIRLY LONG, ELONG,MSB,R=G		
Dec 04 2004 8"	7.5mmW	MF,OVAL,R=G		
<b>NGC 2372</b>	<b>Gem</b>	<b>H317-2</b>	<b>Non-Existent</b>	<b>PB,S,R,BMN,F OF DNEB</b>
Nov 21 2006 8"	11mmT6	B,S,OVAL,R=F		
<b>NGC 2374</b>	<b>CMa</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>CMa</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>CMa</b>		<b>Open Cluster 8.6 IV 3 p</b>	<b>CL,LC,BIFID,**</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2392</b>	<b>Gem</b>	<b>H45-4</b>	<b>Planetary Neb 3b+3b</b>	<b>B,S,R,*9M,*8NF100"</b>
May 22 2015 12"	8mm Ds	NO FILTER NEEDED CENTRAL STAR VISIBLE		
Dec 04 2004 8"	7.5mmW	VB,R,HISB,R=E!!!		
Nov 06 2004 8"	11mmT6	NOT A BAD PLANETARY		
<b>NGC 2395</b>	<b>Gem</b>	<b>H11-8</b>	<b>Open Cluster 10.0 IV 2 m</b>	<b>CL,PRI,C</b>
Mar 04 2006 8"	19mmW	F,S,R=F		
<b>NGC 2396</b>	<b>Pup</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		

## Observations Listing by Catalog Number

<b>NGC 2403</b>	<b>Cam</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 2414</b>	<b>Pup</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 2415</b>	<b>Lyn</b>	<b>H821-2</b>	<b>Galaxy Im?</b>	<b>PB,CS,R,VGVLBM,R,</b>
Mar 16 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 2419</b>	<b>Lyn</b>	<b>H218-1</b>	<b>Globular</b>	<b>PB,PL,LE90,VGBM,*4'F</b>
Feb 21 2020 36"	17mmT4	B,L,R=G		
Dec 04 2004 8"	7.5mmW	OVAL,R=G		
<b>NGC 2420</b>	<b>Gem</b>	<b>H1-6</b>	<b>Open Cluster 11.0 I 1 r</b>	<b>CL,CL,RI,C,ST11...18</b>
Mar 04 2006 8"	19mmW	ML,PB,R=G		
<b>NGC 2421</b>	<b>Pup</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>Pup</b>	<b>M47 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>Pup</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 2426</b>	<b>Lyn</b>	<b>H822-2</b>	<b>Galaxy E</b>	<b>CF,R,VGBM,R,*8P</b>
Nov 10 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2429A</b>	<b>Lyn</b>		<b>Non-Existent</b>	
Nov 10 2012 18"	7mm TV	VF,VS,EON,UB,NND,R=F		
Feb 01 2005 31"	17mmT4	MB,EL,EON,FNUC,MSB,R=G		
<b>NGC 2431</b>	<b>Lyn</b>	<b>H829-3</b>	<b>Galaxy (R')SB(s)a:</b>	<b>EF,VS,R,BM</b>
Feb 01 2005 31"	17mmT4	MB,EL,OVAL,NND,R=G		
<b>NGC 2432</b>	<b>Pup</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		



# Observations Listing by Catalog Number

<b>NGC 2437</b>	<b>Pup</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>Pup</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>Pup</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 2441</b>	<b>Cam</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 2446</b>	<b>Lyn</b>		<b>Galaxy Sb</b>	<b>F,AM4*</b>
Feb 01 2005 31"	17mmT4	MB,OVAL,PATCH,NND,R=G		
<b>NGC 2447</b>	<b>Pup</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		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
<b>NGC 2452</b>	<b>Pup</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 2456</b>	<b>Lyn</b>		<b>Galaxy E</b>	<b>VF,R,VGBM</b>
Feb 01 2005 31"	17mmT4	MB,S,R,PATCH,NND,R=G		
<b>NGC 2457</b>	<b>Lyn</b>		<b>Galaxy Sbc</b>	<b>F,PL,R,2456SP</b>
Feb 01 2005 31"	17mmT4	VF,VS,OVAL,PATCH,NND,AV,R=F		
<b>NGC 2458</b>	<b>Lyn</b>		<b>Galaxy</b>	<b>VF,*12CLOSE</b>
Feb 01 2005 31"	17mmT4	VF,S,OVAL,NND,AV,R=F		
<b>NGC 2460</b>	<b>Cam</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 2462</b>	<b>Lyn</b>		<b>Galaxy</b>	<b>VF,VS,VLBM</b>
Feb 01 2005 31"	17mmT4	VF,OVAL,NND,AV,R=F		

## Observations Listing by Catalog Number

<b>NGC 2463</b>	<b>Lyn</b>		<b>Galaxy</b>	<b>EF,R</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,AV3,R=P		
<b>NGC 2467</b>	<b>Pup</b>	<b>H22-4</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 2468</b>	<b>Lyn</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>Lyn</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>Lyn</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>Lyn</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>Lyn</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 2479</b>	<b>Pup</b>	<b>H58-7</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>Pup</b>	<b>H10-7</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 2488</b>	<b>Lyn</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 2489</b>	<b>Pup</b>	<b>H23-7</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 2493</b>	<b>Lyn</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>Lyn</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>Lyn</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>Lyn</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 2506</b>	<b>Mon</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		

## Observations Listing by Catalog Number

<b>NGC 2507</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H554-2</b> VF,VS,OVAL,UB,NND,AV,R=F	<b>Galaxy S0/a pec</b>	<b>PB,PL,IR,VGBM,ER,*S</b>
<b>NGC 2509</b> Mar 13 2007 8"	<b>Pup</b> 19mmW	<b>H1-8</b> F,PL,R=F,DIM PATCH	<b>Open Cluster I 1 r</b>	<b>CL,B,PRI,LC,ST S</b>
<b>NGC 2513</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H512-3</b> CF,CS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>F,S,R,PSMBM,R</b>
<b>NGC 2518</b> Nov 10 2012 18"	<b>Lyn</b> 7mm TV	<b>H512-3</b> VF,PS,OVAL,UB,NND,AV1,R=F	<b>Galaxy E-S0</b>	<b>2NEB,F,L,R,GBM</b>
<b>NGC 2521</b> Nov 10 2012 18"	<b>Lyn</b> 7mm TV	<b>H512-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SA0- pec?</b>	<b>PF,PL,R,PSBM,*9NP3'</b>
<b>NGC 2523</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	<b>H512-3</b> DIFF,PF,S,OVAL,UB,NND,R=F	<b>Galaxy SB(r)bc</b>	<b>PB,PL,LE,LBM,*NR</b>
<b>NGC 2523A</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	<b>H512-3</b> VS,VS,OVAL,UB,NND,AV3,R=P	<b>Galaxy SB(s)c:</b>	
<b>NGC 2523B</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	<b>H512-3</b> PF,PS,EON,UB,NND,R=F,PA=185	<b>Galaxy SA(s)b: sp</b>	
<b>NGC 2523C</b> Oct 12 2012 18"	<b>Cam</b> 7mm TV	<b>H512-3</b> PF,VS,OVAL,UB,NND,R=F	<b>Galaxy E?</b>	
<b>NGC 2525</b> Mar 16 2010 12"	<b>Pup</b> 11mmT6	<b>H877-3</b> CF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(s)c</b>	<b>CF,PL,R,VGVLBM,AM ST</b>
<b>NGC 2527</b> Mar 28 2008 1.9" Mar 13 2007 8"	<b>Pup</b> 12x50 19mmW	<b>H30-8</b> PB,PL,R=G F,PL,R=F,PATCHY	<b>Open Cluster II2m</b>	<b>CL,VL,PRI,LC,*10..15</b>
<b>NGC 2534</b> Nov 10 2012 18"	<b>Lyn</b> 7mm TV	<b>H840-3</b> PF,PS,R,FNUC,R=F	<b>Galaxy E1? pec</b>	<b>PF,PL,R,PSBM,*8S</b>
<b>NGC 2535</b> Mar 15 2005 8"	<b>Cnc</b> 11mmT6	<b>H840-3</b> VF,MS,EON,OVAL,NND,AV,R=F	<b>Galaxy SA(r)c pec</b>	<b>EF,VS,R</b>
<b>NGC 2537</b> Dec 04 2004 8"	<b>Lyn</b> 7.5mmW	<b>H55-4</b> MF,R,NND,AV,R=F	<b>Galaxy SB(s)m pec</b>	<b>GCL,PB,PL,R,RRR,ST20</b>
<b>NGC 2539</b> May 22 2015 12" Mar 28 2008 1.9" Mar 13 2007 8"	<b>Pup</b> 17mmT4 12x50 19mmW	<b>H11-7</b> CAUGHT BEFORE SETTING. LOW ON HORIZON PB,PL,R=G B,PL,R=G,RESOLVE FAINTER STARS	<b>Open Cluster 9.0 III 2 m</b>	<b>CL,VL,RI,LC,*11...13</b>

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<b>NGC 2541</b>	<b>Lyn</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 2544</b>	<b>Cam</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 2545</b>	<b>Cnc</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 2548</b>	<b>Hya</b>	<b>M48 H22-6</b>	<b>Open Cluster 8.0   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 2549</b>	<b>Lyn</b>		<b>Galaxy SA(r)0^ sp</b>	<b>PB,S,ME0,PSMBM</b>
Nov 10 2012 18"	7mm TV	F,PS,EON,BNUC,R=F,PA=60		
<b>NGC 2550</b>	<b>Cam</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>Cam</b>		<b>Galaxy Sc</b>	
Nov 16 2012 18"	7mm TV	VF,VS,OVAL,MEXT,UB,R=F		
<b>NGC 2551</b>	<b>Cam</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 2552</b>	<b>Lyn</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 2554</b>	<b>Cnc</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>Cnc</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>Cnc</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>Cnc</b>		<b>Galaxy (R')SBbc:</b>	<b>F,BIN</b>
Mar 17 2010 12"	11mmT6	PF,CS,OVAL,NND,R=F		

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<b>NGC 2567</b> Mar 13 2007 8"	<b>Pup</b> 19mmW	<b>H64-7</b> PF,L,R=F	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PL,PRI,LC,IR,*11.</b>
<b>NGC 2571</b> Mar 28 2008 1.9" Mar 13 2007 8"	<b>Pup</b> 12x50 19mmW	<b>H39-6</b> B,S,R=F VF,L,R=F	<b>Open Cluster 8.8 II 3 m</b>	<b>CL,VL,CRI,LC,ST9...</b>
<b>NGC 2577</b> Mar 17 2010 12"	<b>Cnc</b> 28mm	<b>H259-2</b> PF,CS,OVAL,UB,NND,R=F	<b>Galaxy S0-:</b>	<b>F,S,IF,R</b>
<b>NGC 2591</b> May 25 2014 18" Nov 16 2012 18"	<b>Cam</b> 8mm Ds 7mm TV	<b>Galaxy Scd: sp</b> PF,PS,EON,UB,NND,R=F,PA=30 VF,VS,EON,UB,NND,R=G		<b>F,S,E,LBM</b>
<b>NGC 2592</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H315-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>PF,S,R,VSBM*</b>
<b>NGC 2595</b> Apr 05 2005 8"	<b>Cnc</b> 11mmT6	<b>H599-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)c</b>	<b>VF,PL,IF,R,D*SP2'</b>
<b>NGC 2599</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H234-3</b> PF,PS,OVAL,R,UB,NND,R=F	<b>Galaxy SAa</b>	<b>VF,S,STELLAR</b>
<b>NGC 2604</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H292-3</b> DIFF,,VF,CS,OVAL,NND,R=F	<b>Galaxy SB(rs)cd</b>	<b>VF,PL,R,LBM,R,D*NR</b>
<b>NGC 2608</b> Mar 20 2007 8"	<b>Cnc</b> 11mmT6	<b>H318-2</b> PF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB(s)b:</b>	<b>F,VLE,MBM,R</b>
<b>NGC 2610</b> Mar 29 2006 8"	<b>Hya</b> 11mmT6	<b>H35-4</b> PF,PS,R=F	<b>Planetary Neb 4+2</b>	<b>F,S,ATTTO*13,*7NF</b>
<b>NGC 2613</b> Mar 13 2007 8"	<b>Pyx</b> 11mmT6	<b>H266-2</b> PF,PS,EON,NND,AV,R=F	<b>Galaxy SA(s)b</b>	<b>CB,L,VME110</b>
<b>NGC 2619</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H319-2</b> CF,PS,OVAL,UB,NND,R=F	<b>Galaxy Sbc</b>	<b>F,PS,R,BM,R</b>
<b>NGC 2627</b> Mar 13 2007 8"	<b>Pyx</b> 11mmT6	<b>H63-7</b> PF,S,R=F	<b>Open Cluster 11.0 II 2 r</b>	<b>CL,CL,PRI,PC,*11..13</b>

# Observations Listing by Catalog Number

<b>NGC 2632</b>	<b>Cnc</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 2633</b>	<b>Cam</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		
<b>NGC 2634</b>	<b>Cam</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>Cam</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>Cam</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 2639</b>	<b>UMa</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 2646</b>	<b>Cam</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 2648</b>	<b>Cnc</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 2655</b>	<b>Cam</b>	<b>H288-1</b>	<b>Galaxy SAB(s)0/a</b>	<b>VB,CL,LE90,GSVMBM</b>
Oct 06 2004 8"	7.5mmW	MB,EL,EON,FNUC,R=G		
<b>NGC 2657</b>	<b>Cnc</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>Cnc</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>Cnc</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		

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<b>NGC 2673</b>	<b>Cnc</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 2681</b>	<b>UMa</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 2682</b>	<b>Cnc</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 2683</b>	<b>Lyn</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 2685</b>	<b>UMa</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 2715</b>	<b>Cam</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 2730</b>	<b>Cnc</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 2732</b>	<b>Cam</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 2738</b>	<b>Cnc</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		
<b>NGC 2742</b>	<b>UMa</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 2744</b>	<b>Cnc</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 2748</b>	<b>Cam</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 2749</b>	<b>Cnc</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>Cnc</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		

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<b>NGC 2756</b> Mar 28 2011 12"	<b>UMa</b> 7mm TV	<b>H828-2</b> VF,VS,OVAL,UB,NND,R=F	<b>Galaxy Sb</b>	<b>PB,PS,E,VGBM</b>
<b>NGC 2764</b> Mar 20 2007 8"	<b>Cnc</b> 11mmT6	<b>H236-3</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy S0:</b>	<b>CF,VS,R,ER,BET2PB*</b>
<b>NGC 2765</b> Mar 29 2006 8"	<b>Hya</b> 11mmT6	<b>H520-2</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy S0</b>	<b>VF,PL,E,GBM,ER</b>
<b>NGC 2768</b> Mar 04 2006 8"	<b>UMa</b> 11mmT6	<b>H250-1</b> MB,ML,OVAL,NND,R=F	<b>Galaxy E6:</b>	<b>CB,CL,LE,PSBMLBN</b>
<b>NGC 2775</b> Mar 15 2005 8"	<b>Cnc</b> 11mmT6	<b>H2-1</b> MB,ML,OVAL,PATCH,NND,R=G	<b>Galaxy SA(r)ab</b>	<b>CB,CL,R,VGVSMBM,R</b>
<b>NGC 2777</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H2-1</b> VF,VS,,R,NND,AV,R=P	<b>Galaxy Sab?</b>	<b>F,S</b>
<b>NGC 2781</b> Mar 16 2010 12"	<b>Hya</b> 11mmT6	<b>H66-1</b> PB,PS,EON,BNUC,R=G	<b>Galaxy SAB(r)0+</b>	<b>B,S,VLE,PSMBM</b>
<b>NGC 2782</b> Mar 13 2007 8"	<b>Lyn</b> 11mmT6	<b>H167-1</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)a pec</b>	<b>CB,R,MBMBN</b>
<b>NGC 2783</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H295-3</b> PF,CS,OVAL,UB,FNUC,R=F	<b>Galaxy E</b>	<b>VF,VS,R,2PB* SP</b>
<b>NGC 2784</b> Mar 16 2010 12"	<b>Hya</b> 11mmT6	<b>H59-1</b> PB,PS,OVAL,UB,FNUC,R=F	<b>Galaxy SA(s)0^:</b>	<b>B,L,ME64,GMBM</b>
<b>NGC 2787</b> Mar 04 2006 8"	<b>UMa</b> 11mmT6	<b>H216-1</b> F,PS,R,NND,R=F	<b>Galaxy SB(r)0+</b>	<b>B,PL,LE90,MBM,R,*INV</b>
<b>NGC 2789</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H295-3</b> PF,PS,OVAL,UB,FNUC,R=F	<b>Galaxy S0/a</b>	<b>PF,S,R,GBM</b>
<b>NGC 2794</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H295-3</b> CF,CS,OVAL,UB,NND,R=F	<b>Galaxy SB?</b>	<b>EF,VS,SP OF 2</b>
<b>NGC 2795</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H295-3</b> CF,CS,OVAL,NND,R=F	<b>Galaxy E</b>	<b>EF,VS,NF OF 2</b>
<b>NGC 2804</b> Mar 17 2010 12"	<b>Cnc</b> 11mmT6	<b>H295-3</b> VF,CS,OVAL,NND,AV,R=P	<b>Galaxy S0</b>	<b>VF,S,R</b>
<b>NGC 2805</b> Jun 07 2010 12"	<b>UMa</b> 11mmT6	<b>H878-3</b> PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SAB(rs)d</b>	<b>VF,L,R,MBM</b>



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<b>NGC 2809</b>	<b>Cnc</b>		<b>Galaxy S0</b>	<b>VF,S,R</b>
Mar 17 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 2811</b>	<b>Hya</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 2841</b>	<b>UMa</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 2855</b>	<b>Hya</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 2859</b>	<b>LMi</b>	<b>H137-1</b>	<b>Galaxy (R)SB(r)0+</b>	<b>VB,PL,R,SMBM</b>
Mar 13 2007 8"	11mmT6	PF,S,R,NND,R=F		
<b>NGC 2862</b>	<b>Leo</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>Leo</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>Leo</b>		<b>Non-Existent</b>	<b>VF,PL,ME</b>
Mar 08 2010 12"	7.5mmW	CF,CS,MEXT,NND,F=F		
<b>NGC 2880</b>	<b>UMa</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 2882</b>	<b>Leo</b>		<b>Galaxy S?</b>	<b>F,PL,E</b>
Apr 09 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 2889</b>	<b>Hya</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 2894</b>	<b>Leo</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>Leo</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		

# Observations Listing by Catalog Number

<b>NGC 2905</b>	<b>Leo</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**		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 2906</b>	<b>Leo</b>	<b>H495-2</b>	<b>Galaxy Scd:</b>	<b>F,PS,LE,GBM</b>
Mar 16 2010 12"	11mmT6	CF,CS,OVAL,MEXT,UB,NND,R=G		
<b>NGC 2908</b>	<b>Dra</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 2911</b>	<b>Leo</b>	<b>H40-2</b>	<b>Galaxy SA(s)0: pec</b>	<b>F,PL,R,GBM,P OF 2</b>
Mar 16 2010 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
<b>NGC 2913</b>	<b>Leo</b>		<b>Galaxy S?</b>	<b>VF,PL,IR</b>
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,MEXT,NND,R=F		
<b>NGC 2916</b>	<b>Leo</b>	<b>H260-2</b>	<b>Galaxy SA(rs)b?</b>	<b>F,S,VLE</b>
Apr 02 2008 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
Feb 10 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2918</b>	<b>Leo</b>	<b>H298-3</b>	<b>Galaxy E</b>	<b>VF,CS,R,SBMN</b>
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 2919</b>	<b>Leo</b>		<b>Galaxy SAB(r)b:</b>	<b>F,PS</b>
Apr 09 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=P		
<b>NGC 2927</b>	<b>Leo</b>		<b>Galaxy SAB(rs)b</b>	<b>F,PL,R,LBM</b>
Mar 06 2005 8"	11mmT6	VF,VS, OVAL,NND,AV,R=F		
<b>NGC 2938</b>	<b>Dra</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 2939</b>	<b>Leo</b>	<b>H4-3</b>	<b>Galaxy Sbc</b>	<b>VF,S,VLE,BM,TRI STNF</b>
Mar 16 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 2943</b>	<b>Leo</b>		<b>Galaxy E</b>	<b>F,S,IR,BM,F OF2</b>
Apr 09 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 2950</b>	<b>UMa</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 2955</b>	<b>LMi</b>	<b>H541-3</b>	<b>Galaxy (R')SA(r)b</b>	<b>CF,PS,IR,GLBM,R</b>
Mar 20 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,SUSP,R=P		
<b>NGC 2957A</b>	<b>Dra</b>		<b>Galaxy E1:</b>	<b>EF,*13NR</b>
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,PEXT,NND,R=P		

# Observations Listing by Catalog Number

<b>NGC 2957B</b>	<b>Dra</b>		<b>Galaxy E</b>	
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,PEXT,NND,R=P		
<b>NGC 2962</b>	<b>Hya</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 2963</b>	<b>Dra</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 2964</b>	<b>Leo</b>	<b>H114-1</b>	<b>Galaxy SAB(r)bc:</b>	<b>B,VL,LE,VGBM,SP OF 3</b>
Feb 10 2005 8"	11mmT6	MB,ML,EL,OVAL,PATCHY,NND,MSB,R=G		
<b>NGC 2968</b>	<b>Leo</b>	<b>H491-2</b>	<b>Galaxy I0</b>	<b>PB,PL,LE,VGLBM,2ND-3</b>
Feb 10 2005 8"	11mmT6	DIFF,MF,MS,OVAL,NND,AV,R=F		
<b>NGC 2970</b>	<b>Leo</b>		<b>Galaxy E1:</b>	<b>F,NF OF 3</b>
Apr 13 2005 31"	17mmT4	MB,OVAL,NND,R=F		
<b>NGC 2974</b>	<b>Sex</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 2976</b>	<b>UMa</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 2977</b>	<b>Dra</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 2981</b>	<b>Leo</b>		<b>Galaxy SAB(rs)bc:</b>	<b>VF</b>
Apr 13 2005 31"	17mmT4	VF,MS,OVAL,NND,AV,R=F		
<b>NGC 2983</b>	<b>Hya</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 2985</b>	<b>UMa</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 2986</b>	<b>Hya</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 2988</b>	<b>Leo</b>		<b>Galaxy SBbc</b>	<b>EF,P 2991</b>
Apr 28 2006 31"	19mmW	CF,CS,R,FNUC,R=F		
<b>NGC 2992</b>	<b>Hya</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>Hya</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		

# Observations Listing by Catalog Number

<b>NGC 3003</b>	<b>LMI</b>	<b>H26-5</b>	<b>Galaxy Sbc?</b>	<b>CB,L,VME90</b>
Mar 20 2007 8"	11mmT6	VF,L,EON,NND,AV,R=F		
<b>NGC 3020</b>	<b>Leo</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 3021</b>	<b>LMI</b>	<b>H115-1</b>	<b>Galaxy SA(rs)bc:</b>	<b>PB,PS,VLE,MBM,*10SP</b>
Mar 20 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 3031</b>	<b>UMa</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 3032</b>	<b>Leo</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		

# Observations Listing by Catalog Number

<b>NGC 3034</b>	<b>UMa</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			
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 3041</b>	<b>Leo</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 3044</b>	<b>Sex</b>	<b>H254-3</b>	<b>Galaxy SB(s)c? sp</b>	<b>VF,VL,VME122</b>	
Mar 30 2014 18"	7mm TV	B,PS,EON,UB,NND,R=G,PA=145,REALLY NICE			
Mar 30 2014 28"	7mm TV	SUPER WITH IMAGE INTENSIFIER. SOME DETAIL IN CORE DEFINITION COMES AND GOES			
<b>NGC 3049</b>	<b>Leo</b>	<b>H600-3</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 3052</b>	<b>Hya</b>	<b>H272-3</b>	<b>Galaxy SAB(r)c:</b>	<b>F,PL,R,GLBM,NF OF 2</b>	
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F			
<b>NGC 3053</b>	<b>Leo</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 3054</b>	<b>Hya</b>	<b>H978-3</b>	<b>Galaxy SAB(r)b</b>	<b>PB,L,IRR OBLONG</b>	
Apr 08 2005 8"	7.5mmW	DIFF,VF,ML,OVAL,NND,AV,R=F			
<b>NGC 3057</b>	<b>Dra</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>Dra</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			

## Observations Listing by Catalog Number

<b>NGC 3065</b> Mar 28 2011 12"	<b>UMa</b> 5mm TV	<b>H333-2</b> VF,PS,R,UB,NND,AV,R=F	<b>Galaxy SA(r)0<sup>^</sup></b>	<b>PF,VS,R,BM,*11NR</b>
<b>NGC 3067</b> Apr 05 2005 8"	<b>Leo</b> 11mmT6	<b>H492-2</b> MF,MS,EL,OVAL,NND,R=F	<b>Galaxy SAB(s)ab?</b>	<b>PB,PL,E106,GBM,*94'P</b>
<b>NGC 3070</b> Mar 29 2006 8"	<b>Leo</b> 11mmT6	<b>H59-2</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy E</b>	<b>PB,PS,R,GMBMN,AM3ST</b>
<b>NGC 3072</b> Apr 08 2005 8"	<b>Hya</b> 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 3073</b> Mar 28 2011 12"	<b>UMa</b> 5mm TV	<b>H853-3</b> VF,VS,R,UB,NND,AV,R=F	<b>Galaxy SAB0-</b>	<b>VF,S,VGLBM</b>
<b>NGC 3077</b> Mar 13 2007 8" May 24 2004 8"	<b>UMa</b> 11mmT6 25mmPL	<b>H286-1</b> PF,L,OVAL,NND,AV,R=F DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy I0 pec</b>	<b>CB,CL,MBM,R WITH RAY</b>
<b>NGC 3078</b> Apr 08 2005 8"	<b>Hya</b> 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 3079</b> Mar 04 2006 8"	<b>UMa</b> 11mmT6	<b>H47-5</b> PF,FL,EON,NND,R=F	<b>Galaxy SB(s)c sp</b>	<b>VB,L,ME135</b>
<b>NGC 3091</b> Apr 08 2005 8"	<b>Hya</b> 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 3094</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>H898-2</b> B,S,OVAL,UB,HSB,R=G	<b>Galaxy SB(s)a</b>	<b>F,BM,*9 30"SF</b>
<b>NGC 3098</b> Apr 05 2005 8"	<b>Leo</b> 11mmT6	<b>H163-1</b> VF,MS,EL,EON,NND,R=F	<b>Galaxy S0 sp</b>	<b>PB,S,E85,PSBMN</b>
<b>NGC 3107</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>H898-2</b> F,S,OVAL,UB,NND,R=F	<b>Galaxy Sbc:</b>	<b>PF,PL,IR,*8NP 112"</b>
<b>NGC 3109</b> Apr 08 2005 8"	<b>Hya</b> 11mmT6	<b>H163-1</b> DIFF,MF,VL,EON,NND,R=F	<b>Galaxy SB(s)m sp</b>	<b>CF,VL,VME82,LBM</b>
<b>NGC 3115</b> Mar 15 2005 8"	<b>Sex</b> 11mmT6	<b>H163-1</b> VB,ML,EL,EON, FNUC,MSB,R=G	<b>Galaxy S0- sp</b>	<b>VB,L,VME46,VGSMBMEN</b>
<b>NGC 3119</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>H898-2</b> F,PS,OVAL,UB,NND,R=F	<b>Non-Existent</b>	<b>VF</b>
<b>NGC 3124</b> Apr 08 2005 8"	<b>Hya</b> 11mmT6	<b>H163-1</b> DIFF,VF,ML,OVAL,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>F,PL,R,LBM,D* S</b>

# Observations Listing by Catalog Number

<b>NGC 3130</b>	<b>Leo</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>Leo</b>		<b>Galaxy SBb:</b>	<b>PB,PS,PME,GBM</b>
Apr 15 2007 31"	17mmT4	PB,PL,EON,FNUC,R=G		
<b>NGC 3144</b>	<b>Dra</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 3145</b>	<b>Hya</b>	<b>H518-3</b>	<b>Galaxy SB(rs)bc</b>	<b>F,PL,R,VGSLBM</b>
Mar 29 2006 8"	11mmT6	B,L,EON,FNUC,R=F		
Mar 15 2005 8"	11mmT6	VB,ML,EL,EON,R=G		
<b>NGC 3146</b>	<b>Hya</b>		<b>Galaxy SB(r)b?</b>	<b>EF,S,R,GBM</b>
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3147</b>	<b>Dra</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 3153</b>	<b>Leo</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>Leo</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 3156</b>	<b>Sex</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 3158</b>	<b>LMi</b>	<b>H639-2</b>	<b>Galaxy E3:</b>	<b>CB,CS,R,PSBM,R</b>
Mar 20 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
<b>NGC 3162</b>	<b>Leo</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		
<b>NGC 3166</b>	<b>Sex</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>Sex</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 3177</b>	<b>Leo</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		

# Observations Listing by Catalog Number

<b>NGC 3183</b>	<b>Dra</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 3184</b>	<b>UMa</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 3185</b>	<b>Leo</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>Leo</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>Leo</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>Leo</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>Leo</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>Leo</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 3194</b>	<b>Dra</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 3196</b>	<b>Leo</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 3197</b>	<b>Dra</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 3198</b>	<b>UMa</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 3200</b>	<b>Hya</b>		<b>Galaxy SAB(rs)c:</b>	<b>PB,E160,BMN</b>
Apr 08 2005 8"	7.5mmW	VF,VS,EON,NND,AV,R=F		
<b>NGC 3204</b>	<b>Leo</b>		<b>Galaxy SAB(r)b</b>	<b>EF,PL,GBM</b>
Apr 21 2007 31"	17mmT4	F,PS,OVAL,NND,R=F		



# Observations Listing by Catalog Number

<b>NGC 3206</b> Apr 09 2010 12"	<b>UMa</b> 11mmT6	<b>H266-1</b> VF,CS,OVAL,PEXT,UB,NND,AV,R=F	<b>Galaxy SB(s)cd</b>	<b>PB,CL,E,VGLBM</b>
<b>NGC 3209</b> Apr 21 2007 31"	<b>Leo</b> 17mmT4	PB,PLMOVAL,BNUC,R=G	<b>Galaxy E</b>	<b>F,S,R,HAS A *</b>
<b>NGC 3212</b> Jul 13 2013 18"	<b>Dra</b> 7mm TV	<b>H980-3</b> VF,PS,OVAL,MEXT,UB,NND,R=F,PAIRED W/NGC-3215	<b>Galaxy SB?</b>	<b>VF,S,2ND OF 3</b>
<b>NGC 3213</b> Apr 21 2007 31"	<b>Leo</b> 17mmT4	DIFF,CF,PL,OVAL,UB,NND,R=F	<b>Galaxy Sbc:</b>	<b>VF,VS,R,R</b>
<b>NGC 3215</b> Jul 13 2013 18"	<b>Dra</b> 7mm TV	<b>H981-3</b> VF,PS,PEXT,UB,NND,R=F,PAIRED W/NGC-3212	<b>Galaxy S?</b>	<b>VF,S,3RD OF 3</b>
<b>NGC 3216</b> Apr 21 2007 31"	<b>Leo</b> 17mmT4	<b>H330-3</b> PF,PS,OVAL,FNUC,R=F	<b>Galaxy E:</b>	<b>VF,PS,R,BM</b>
<b>NGC 3218</b> Aug 25 2011 12"	<b>Dra</b> 5mm TV	<b>H283-1</b> F,VS,OVAL,MEXT,UB,NND,AV1,R=P	<b>Galaxy SB(s)bc:</b>	<b>CB,CL,ER,</b>
<b>NGC 3221</b> Apr 21 2007 31"	<b>Leo</b> 17mmT4	DIFF,PF,PL,EON,NND,R=F	<b>Galaxy SB(s)cd: sp</b>	<b>EF,ME,RAY</b>
<b>NGC 3222</b> Apr 21 2007 31" Mar 20 2007 8"	<b>Leo</b> 17mmT4 11mmT6	PB,PL,OVAL,FNUC,R=F VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB0:</b>	<b>F,LBM,RR,(BIN)</b>
<b>NGC 3225</b> Mar 28 2011 12"	<b>UMa</b> 5mm TV	<b>H882-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy Scd:</b>	<b>CF,PL,LE,VGBM</b>
<b>NGC 3226</b> Apr 26 2006 8" Mar 13 2004 8"	<b>Leo</b> 11mmT6 25mmPL	<b>H28-2</b> PF,PS,OVAL,NND,R=F COMPUTER = ARGO NAVIS	<b>Galaxy E2: pec</b>	<b>PB,CL,R,DW/3227</b>
<b>NGC 3227</b> Apr 26 2006 8" Mar 23 2004 8" Mar 13 2004 8"	<b>Leo</b> 11mmT6 25mmPL 25mmPL	<b>H29-2</b> F,S,EL,R,NND,R=F COMPUTER = ARGO NAVIS COMPUTER = ARGO NAVIS	<b>Galaxy SAB(s)a pec</b>	<b>PB,CL,R,DW/3226</b>
<b>NGC 3230</b> Apr 21 2007 31"	<b>Leo</b> 17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy S0</b>	<b>PF,PS,SBM*14,*9S19"</b>
<b>NGC 3239</b> Apr 21 2007 31"	<b>Leo</b> 17mmT4	<b>H10-4</b> DIFF,PF,CL,OVAL,NND,R=F	<b>Galaxy IB(s)m pec</b>	<b>VF,*9INV NR M</b>
<b>NGC 3242</b> May 22 2015 12" Apr 08 2005 8"	<b>Hya</b> 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>

# Observations Listing by Catalog Number

<b>NGC 3245</b>	<b>LMi</b>	<b>H86-1</b>	<b>Galaxy SA(r)0<sup>+</sup>?</b>	<b>VB,PL,E0, SMBMEN</b>
May 25 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,BNUC,R=G		
Mar 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
Mar 23 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3245A</b>	<b>LMi</b>		<b>Galaxy SB(s)b sp</b>	
May 25 2014 18"	8mm Ds	PF,VS,EON,UB,NND,R=F,PA=150		
<b>NGC 3248</b>	<b>Leo</b>	<b>H347-2</b>	<b>Galaxy S0</b>	<b>PB,S,R,PSBM</b>
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G		
<b>NGC 3252</b>	<b>Dra</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 3253</b>	<b>Leo</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 3254</b>	<b>LMi</b>	<b>H72-1</b>	<b>Galaxy SA(s)bc</b>	<b>CB,L,ME45,PSMBMN</b>
Mar 20 2007 8"	11mmT6	F,L,EON,NND,R=F		
<b>NGC 3270</b>	<b>Leo</b>	<b>H331-3</b>	<b>Galaxy SAB(r)b:</b>	<b>CF,VS,E,GLBM</b>
Apr 21 2007 31"	17mmT4	PB,PL,EON,FNUC,R=G		
<b>NGC 3274</b>	<b>Leo</b>	<b>H358-2</b>	<b>Galaxy SABd?</b>	<b>F,PL,R,GLBM,D* F</b>
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3277</b>	<b>LMi</b>	<b>H359-2</b>	<b>Galaxy SA(r)ab</b>	<b>CB,CS,R,PGMBM</b>
Mar 13 2007 8"	11mmT6	VF,VS,R,NND,R=F		
<b>NGC 3279</b>	<b>Leo</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>Leo</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 3294</b>	<b>LMi</b>	<b>H164-1</b>	<b>Galaxy SA(s)c</b>	<b>CB,L,ME135,GLBM</b>
May 15 2017 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Mar 13 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3299</b>	<b>Leo</b>	<b>H54-3</b>	<b>Galaxy SAB(s)dm</b>	<b>EF,CL,R,VGBM,R</b>
Apr 21 2007 31"	17mmT4	DIFF,CF,PL,OVAL,NND,AV,R=F		
<b>NGC 3300</b>	<b>Leo</b>	<b>H55-3</b>	<b>Galaxy SAB(r)0<sup>+</sup>?</b>	<b>CF,CS,R,PMBM,R,AMBST</b>
Apr 21 2007 31"	17mmT4	CB,PL,OVAL,FNUC,MSB,R=G		
<b>NGC 3301</b>	<b>Leo</b>	<b>H46-2</b>	<b>Galaxy SB0-a</b>	<b>CB,S,LE53,PSBM,R</b>
Mar 06 2005 8"	11mmT6	MB,MS,EL,FNUC,MSB,R=G		

# Observations Listing by Catalog Number

<b>NGC 3303</b>	<b>Leo</b>	<b>H66-3</b>	<b>Galaxy Pec</b>	<b>VF,VS,VLE,GLBM,R</b>
Apr 21 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F		
<b>NGC 3306</b>	<b>Leo</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 3310</b>	<b>UMa</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		
Mar 13 2007 8"	11mmT6	CB,PS,R,FNUC,R=G		
<b>NGC 3319</b>	<b>UMa</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 3329</b>	<b>Dra</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 3332</b>	<b>Leo</b>	<b>H272-1</b>	<b>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>Leo</b>	<b>H77-2</b>	<b>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 3343</b>	<b>Dra</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 3344</b>	<b>LMi</b>	<b>H81-1</b>	<b>Galaxy (R)SAB(r)bc</b>	<b>CB,L,GBM,*INV,2ST F</b>
May 15 2017 12"	7mm TV	F,PS,OVAL,UB,NND,R=G. 3 STARS SUPERIMPOSED ON GALAXY.		
Mar 13 2007 8"	11mmT6	PF,CL,OVAL,FNUC,R=F		
Mar 23 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 3346</b>	<b>Leo</b>	<b>H7-5</b>	<b>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 3348</b>	<b>UMa</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 3349</b>	<b>Leo</b>		<b>Galaxy Sc</b>	<b>EF,VS</b>
Apr 21 2007 31"	17mmT4	DIFF,CF,CS,R,NND,R=F		

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<b>NGC 3351</b>	<b>Leo</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>Leo</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>Leo</b>	<b>H107-3</b>	<b>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>Leo</b>		<b>Galaxy E+:</b>	<b>F,S,MBM</b>
Apr 07 2008 31"	17mmT4	B,PS,R,FNUC,HSB,R=G		
<b>NGC 3359</b>	<b>UMa</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 3362</b>	<b>Leo</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>Leo</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 3365</b>	<b>Sex</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 3367</b>	<b>Leo</b>	<b>H78-2</b>	<b>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.*		
<b>NGC 3368</b>	<b>Leo</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>Leo</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		

# Observations Listing by Catalog Number

<b>NGC 3371</b>	<b>Leo</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>Leo</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>Leo</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>Leo</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>Leo</b>	<b>M105 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 3381</b>	<b>LMi</b>	<b>H565-2</b>	<b>Galaxy SB pec</b>	<b>PF,CL,IR,VGLBM,1ST-3</b>
Mar 20 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
<b>NGC 3384</b>	<b>Leo</b>	<b>H18-1</b>	<b>Galaxy SB(s)0-:</b>	<b>VB,L,R,PSMBM,2ND OF3</b>
Apr 02 2008 8"	11mmT6	PB,PL,OVAL,UB,FNUC,R=G		
Apr 26 2006 8"	11mmT6	FB,PS,OVAL,UB,R=G		
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>Leo</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>Leo</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		

# Observations Listing by Catalog Number

<b>NGC 3395</b>	<b>LMI</b>	<b>H116-1</b>	<b>Galaxy SAB(rs)cd pec:</b>	<b>CB,PS,ILE,1ST OF 2</b>
May 15 2017 12"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=G.	PAIRED W/NGC3396	
Mar 29 2006 8"	11mmT6	PF,PS,EL,OVAL,NND,R=F		
Mar 04 2006 8"	11mmT6	VF,VS,R,NND,R=F		
<b>NGC 3396</b>	<b>LMI</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 3397</b>	<b>Dra</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 3399</b>	<b>Leo</b>		<b>Galaxy S0?</b>	<b>F,VS</b>
Apr 07 2008 31"	17mmT4	PB,S,R,UB,NND,HSB,R=G		
<b>NGC 3403</b>	<b>Dra</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 3405</b>	<b>Leo</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 3406</b>	<b>UMa</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 3412</b>	<b>Leo</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 3413</b>	<b>LMI</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>LMI</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 3417</b>	<b>Leo</b>		<b>Galaxy</b>	<b>EF,VS,ALM STELL</b>
Apr 07 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F		
<b>NGC 3418</b>	<b>LMI</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 3419</b>	<b>Leo</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>Leo</b>		<b>Galaxy SB(s)b: sp</b>	
Apr 07 2008 31"	17mmT4	PF,PS,EON,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 3423</b> Mar 15 2005 8"	<b>Sex</b> 11mmT6	<b>H6-4</b> VF,ROUND,NND,AV,R=F	<b>Galaxy SA(s)cd</b>	<b>F,VL,R,VGBM,RR</b>
<b>NGC 3424</b> May 15 2017 12" Mar 30 2014 18" Mar 28 2011 12"	<b>LMi</b> 7mm TV 7mm TV 7mm TV	<b>H494-2</b> PF,PS,OVAL,VEXT,UB,NND,R=G DIFF,PF,PS,R,UB,NND,R=F PF,CS,EON,UB,NND,R=F,PA=120	<b>Galaxy SB(s)b:?</b>	<b>PF,PL,LE,SP OF 3</b>
<b>NGC 3425</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>H108-3</b> PF,PS,R,UB,NND,R=F	<b>Non-Existent</b>	<b>EF,ES,R</b>
<b>NGC 3426</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>Galaxy S?</b> PB,PS,OVAL,BNUC,HSB,R=G		<b>PF,S,R,D*N</b>
<b>NGC 3427</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>Galaxy S0/a</b> B,S,EL,OVAL,FNUC,R=F		<b>NEB,NO DESCR</b>
<b>NGC 3428</b> Apr 07 2008 31"	<b>Leo</b> 17mmT4	<b>Galaxy SAB(s)b</b> B,L,EON,UB,NND,R=F		<b>VF,S,LE,GLBM</b>
<b>NGC 3430</b> May 15 2017 12" Mar 28 2011 12" Mar 29 2006 8"	<b>LMi</b> 7mm TV 7mm TV 11mmT6	<b>H118-1</b> PF,PS,OVALMUB,NND,R=F PF,PS,OVAL,MEXT,UB,NND,R=F PF,S,OVAL,NND,R=F	<b>Galaxy SAB(rs)c</b>	<b>PB,L,IE,GBM,2ND OF 3</b>
<b>NGC 3432</b> May 15 2017 12" Mar 29 2006 8"	<b>LMi</b> 7mm TV 11mmT6	<b>H172-1</b> PF,PS,EON,UB,NND,R=G F,L,EON,NND,R=F	<b>Galaxy SB(s)m sp</b>	<b>PB,PL,VME40,**NR SP</b>
<b>NGC 3435</b> May 30 2014 18"	<b>UMa</b> 8mm Ds	<b>H887-2</b> VF,PS,OVAL,UB,NND,R=F	<b>Galaxy Sb</b>	<b>CF,PS,LE,VGBM</b>
<b>NGC 3437</b> May 13 2007 8"	<b>Leo</b> 11mmT6	<b>H47-2</b> VF,CS,EL,OVAL,NND,AV,F	<b>Galaxy SAB(rs)c:</b>	<b>PB,PL,LE120,GBM</b>
<b>NGC 3440</b> May 30 2014 18"	<b>UMa</b> 8mm Ds	<b>H914-3</b> PF,PS,EON,UB,NND,R=F,PA=50	<b>Galaxy SBb? sp</b>	<b>VF,S,LE</b>
<b>NGC 3445</b> May 30 2014 18"	<b>UMa</b> 8mm Ds	<b>H267-1</b> PFL,PS,R,UB,NND,R=F	<b>Galaxy SAB(s)m</b>	<b>CB,PL,IR,VGLBM,*NF2'</b>
<b>NGC 3448</b> Apr 09 2010 12"	<b>UMa</b> 11mmT6	<b>H233-1</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy I0</b>	<b>B,PL,ME67,GBM</b>
<b>NGC 3454</b> May 25 2014 18"	<b>Leo</b> 8mm Ds	<b>Galaxy SB(s)c? sp</b> PF,VS,EON,UB,NND,R=F,PA=110		<b>PF,LE,NP OF 2</b>
<b>NGC 3455</b> May 25 2014 18"	<b>Leo</b> 8mm Ds	<b>H82-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy (R')SAB(rs)b</b>	<b>PF,S,E,GBM,R,SF OF 2</b>

# Observations Listing by Catalog Number

<b>NGC 3457</b> May 13 2007 8"	<b>Leo</b> 7.5mmW	VF,VS,OVAL,NND,AV,R=F	<b>Galaxy S?</b>	<b>2OR3S* AND NEB</b>
<b>NGC 3458</b> Apr 09 2010 12"	<b>UMa</b> 11mmT6	<b>H268-1</b> PB,CS,R,BNUC,R=G	<b>Galaxy SAB0:</b>	<b>VB,VS,R,STELLAR</b>
<b>NGC 3465</b> Jul 13 2013 18" Feb 23 2006 31"	<b>Dra</b> 7mm TV 17mmT4	<b>H967-3</b> VF,PS,OVAL,MEXT,UB,NND,R=F MF,FS,R,FNUC,MSB,R=F	<b>Non-Existent</b>	<b>EF,PL,R,VGLBM,**NF</b>
<b>NGC 3471</b> Apr 09 2010 12"	<b>UMa</b> 11mmT6	<b>H972-3</b> PF,CS,OVAL,UB,NND,R=F	<b>Galaxy Sa</b>	<b>VF,S,R,BM</b>
<b>NGC 3485</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H100-2</b> B,L,OVAL,UB,FNUC,R=G	<b>Galaxy SB(r)b:</b>	<b>F,L,R,GLBM,R</b>
<b>NGC 3486</b> May 15 2017 12" Mar 13 2007 8" Mar 23 2004 8"	<b>LMi</b> 7mm TV 11mmT6 25mmPL	<b>H87-1</b> PF,PS,OVAL,MEXT,UB,NND,R=F VF,CL,R,NND,AV,R=F COMPUTER = ARGO NAVIS	<b>Galaxy SAB(r)c</b>	<b>CB,CL,R,GMBM</b>
<b>NGC 3487</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	B,L,EL,OVAL,UB,NND,RR=F	<b>Galaxy Sb? sp</b>	<b>EEF,PS,R, V DIFFIC</b>
<b>NGC 3489</b> Apr 26 2006 8" May 22 2004 8" Mar 13 2004 8"	<b>Leo</b> 11mmT6 25mmPL 25mmPL	<b>H101-2</b> FB,FS,OVAL,UB,FNUC,R=G DECENT NIGHT - MEGASTAR CONTROL COMPUTER = ARGO NAVIS	<b>Galaxy SAB(rs)0+</b>	<b>VB,PL,LE80,SMBMN</b>
<b>NGC 3490</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	CF,PS,R,UB,NND,R=F	<b>Galaxy E</b>	<b>VF,S</b>
<b>NGC 3491</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H21-3</b> CB,CL,R,BNUC,HISB,R=F	<b>Galaxy S0-:</b>	<b>EF,CS,R,BMN</b>
<b>NGC 3492</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	PB,L,OVAL,UB,FNUC,R=G	<b>Galaxy S?</b>	<b>PF,S,*9P20S,1'S</b>
<b>NGC 3495</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H498-3</b> B,PL,EON,FNUC,MHISB,R=G	<b>Galaxy Sd:</b>	<b>VF,PL,ME</b>
<b>NGC 3497</b> Apr 14 2016 12"	<b>Crt</b> 8mm Ds	<b>H824-3</b> VF,PS,OVAL,NND,AV,R=F, LOW ON HORIZON	<b>Galaxy SA(s)0^:</b>	<b>VF,VS,IR,GLBM</b>
<b>NGC 3501</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	B,L,EON,UB,NND,R=G	<b>Galaxy Scd:</b>	<b>VF,ME NS,GBM,3'LONG</b>
<b>NGC 3504</b> Mar 29 2006 8"	<b>LMi</b> 11mmT6	<b>H88-1</b> F,S,R,UB,R=F	<b>Galaxy (R)SAB(s)ab</b>	<b>B,L,E,MBMN,RR,P OF 2</b>



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<b>NGC 3506</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H22-3</b> PB,L,R,FNUC,MHISB,R=G	<b>Galaxy Sc:</b>	<b>VF,CS,R,VGVLBM</b>
<b>NGC 3507</b> Mar 06 2005 8"	<b>Leo</b> 11mmT6	<b>H7-4</b> DIFF,VF,MS,OVAL,NND,AV,R=F	<b>Galaxy SB(s)b</b>	<b>CF,PL,R,SBMS*,*9ATT</b>
<b>NGC 3509</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H598-3</b> B,PL,EL,OVAL,FNUC,MHISB,R=G	<b>Galaxy SA(s)bc pec</b>	<b>EF,S,(LE)</b>
<b>NGC 3510</b> Mar 20 2007 8"	<b>LMi</b> 11mmT6	<b>H365-2</b> PF,L,EON,NND,AV,R=F	<b>Galaxy SB(s)m sp</b>	<b>F,L,CE,*7NF8'</b>
<b>NGC 3511</b> Mar 01 2011 12" Jun 07 2010 12"	<b>Crt</b> 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 3512</b> Mar 20 2007 8"	<b>LMi</b> 11mmT6	<b>H366-2</b> VF,VS,R,NND,AV,R=F	<b>Galaxy SAB(rs)c</b>	<b>F,PS,R,PGBM,F OF 2</b>
<b>NGC 3513</b> Mar 01 2011 12"	<b>Crt</b> 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 3516</b> Jul 14 2010 12"	<b>UMa</b> 7.5mmW	<b>H336-2</b> PF,CS,OVAL,FNUC,R=F	<b>Galaxy (R)SB(s)0^:</b>	<b>PB,VS,IR,PSMBM*</b>
<b>NGC 3521</b> May 31 2019 12" Apr 26 2006 8" May 12 2004 8" Mar 13 2004 8"	<b>Leo</b> 11mmT6 11mmT6 25mmPL 25mmPL	<b>H13-1</b> F,PS,OVAL,MEXT,NND,R=F PB,PL,OVAL,BNUC,HISB,R=G L.P. LOUSY-MAG. 9.5 TOPS! COMPUTER = ARGO NAVIS	<b>Galaxy SAB(rs)bc</b>	<b>CB,CL,ME140,VSMBMN</b>
<b>NGC 3522</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H22-3</b> PB,PS,OVAL,FNUC,R=G	<b>Galaxy E</b>	<b>PF,VS,LE</b>
<b>NGC 3523</b> Jul 13 2013 18" Feb 23 2006 31"	<b>Dra</b> 7mm TV 17mmT4	<b>H904-2</b> VF,PS,R,UB,NND,AV,R=F DIFF,B,ML,R,NND,R=F	<b>Galaxy Sbc</b>	<b>F,PL,LBM,</b>
<b>NGC 3524</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H23-3</b> PB,PL,EON,BNUC,HISB,R=G	<b>Galaxy S0/a</b>	<b>F,S,LE,PSBM,2*NPLINE</b>
<b>NGC 3531</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H22-3</b> B,PL,EON,UB,NND,R=F	<b>Non-Existent</b>	<b>E50,*11SPEND,(=3526)</b>
<b>NGC 3534</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H22-3</b> CF,PL,EL,OVAL,UB,NND,R=G	<b>Galaxy Sb</b>	<b>VF,*9NP 3'</b>
<b>NGC 3535</b> Apr 19 2007 31"	<b>Leo</b> 17mmT4	<b>H111-3</b> PB,CS,OVAL,BNUC,R=G	<b>Galaxy SA(s)a pec:</b>	<b>CF,VS,R,BM,R</b>

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<b>NGC 3547</b>	<b>Leo</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 3549</b>	<b>UMa</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 3551</b>	<b>Leo</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>Leo</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 3556</b>	<b>UMa</b>	<b>M108 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"	13mmHW	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			
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 3559</b>	<b>Leo</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 3562</b>	<b>Dra</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 3563</b>	<b>Leo</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>Leo</b>		<b>Non-Existent</b>	
Apr 19 2007 31"	17mmT4	PB,PS,OVAL,FNUC,R=F		
<b>NGC 3563B</b>	<b>Leo</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>Leo</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		

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<b>NGC 3574</b>	<b>Leo</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>Leo</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 3583</b>	<b>UMa</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 3585</b>	<b>Hya</b>	<b>H269-2</b>	<b>Galaxy E6</b>	<b>B,PL,E,VSMBMN,2B*TRI</b>
Mar 29 2006 8"	11mmT6	B,L,OVAL,FNUC,R=F		
<b>NGC 3587</b>	<b>UMa</b>	<b>M97</b>	<b>Planetary Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>
Jun 19 2020 12"	13mmHW	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 3592</b>	<b>Leo</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>Leo</b>	<b>H29-1</b>	<b>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>Leo</b>	<b>H102-2</b>	<b>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>Leo</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>Leo</b>	<b>H49-2</b>	<b>Galaxy SA0:</b>	<b>B,PS,R,PGMBM</b>
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		

# Observations Listing by Catalog Number

<b>NGC 3600</b> Jun 19 2020 12"	<b>UMa</b> 8mm Et	<b>H709-2</b> PF,PS,OVAL,VEXT,UB,NND,R=F,PA=40	<b>Galaxy Sa?</b>	<b>PF,S,LE0,VGBM</b>
<b>NGC 3604</b> May 13 2007 8"	<b>Leo</b> 11mmT6	<b>H626-2</b> VF,PS,R,NND,AV,R=F	<b>Galaxy</b>	<b>PB,S,LE,MBM</b>
<b>NGC 3605</b> May 13 2007 8"	<b>Leo</b> 11mmT6	<b>H27-3</b> PF,PS,R,NND,R=F	<b>Galaxy E4-5</b>	<b>F,S,R,SP OF 3</b>
<b>NGC 3607</b> Apr 26 2006 8" May 12 2004 8" Mar 10 2004 8"	<b>Leo</b> 11mmT6 25mmPL 25mmPL	<b>H50-2</b> PB,L,R,BNUC,HISB,R=G L.P. LOUSY-MAG. 9.5 TOPS! N/M, NO COMPUTER	<b>Galaxy SA(s)0^:</b>	<b>VB,L,R,VMBM,2ND OF 3</b>
<b>NGC 3608</b> Apr 26 2006 8" Mar 10 2004 8"	<b>Leo</b> 11mmT6 25mmPL	<b>H51-2</b> B,CL,OVAL,NND,R=F N/M, NO COMPUTER	<b>Galaxy E2</b>	<b>B,PL,R,PSBM,3RD OF 3</b>
<b>NGC 3610</b> Jun 24 2020 12" Mar 17 2007 8" Mar 13 2007 8"	<b>UMa</b> 8mm Et 11mmT6 11mmT6	<b>H270-1</b> F,PS,R,FNUC,R=G PB,S,R,BNUC,R=G PF,PS,R,NND,R=F	<b>Galaxy E5:</b>	<b>VB,PS,LE90,VSVMBMSN</b>
<b>NGC 3611</b> Apr 09 2008 8"	<b>Leo</b> 11mmT6	<b>H521-2</b> PF,PS,OVAL,NND,LSB,R=F	<b>Galaxy SA(s)a pec</b>	<b>PF,CS,IR,PSMBM,*NP3'</b>
<b>NGC 3613</b> Jun 19 2020 12" Mar 17 2007 8"	<b>UMa</b> 11mmT6 11mmT6	<b>H271-1</b> PF,PS,OVAL,FNUC,R=F F,PS,OVAL,FNUC,R=G	<b>Galaxy E6</b>	<b>VB,CL,ME305,SMBMN</b>
<b>NGC 3614</b> Jun 19 2020 12"	<b>UMa</b> 8mm Et	<b>H729-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SAB(r)c</b>	<b>F,PL,LE90,GLBM,R</b>
<b>NGC 3619</b> Mar 17 2007 8"	<b>UMa</b> 11mmT6	<b>H244-1</b> F,PS,R,NND,R=F	<b>Galaxy (R)SA(s)0+:</b>	<b>CB,CL,R,VGMBM</b>
<b>NGC 3621</b> Mar 18 2007 8"	<b>Hya</b> 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 3622</b> Jul 14 2010 12"	<b>UMa</b> 7.5mmW	<b>H879-2</b> VF,CS,OVAL,MEXT,UB,NND,AV,R=F	<b>Galaxy S?</b>	<b>PB,S,R,GBM</b>

# Observations Listing by Catalog Number

<b>NGC 3623</b>	<b>Leo M65</b>	<b>Galaxy SAB(rs)a</b>	<b>B,VL,ME165,GBMBN</b>
Jun 19 2020 12"	13mmHW 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"	32mmUW VB,VL,EON,BNUC,HISB,R=E		
Mar 10 2007 1.9"	12x50 VF,PS,OVAL,NND,AV,R=F		
Mar 19 2006 8"	19mmW PB,L,EL,OVAL,FNUC,R=G		
May 12 2004 8"	25mmPL L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004 8"	25mmPL 2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004 8"	25mmPL 1ST. QTR.		
<b>NGC 3624</b>	<b>Leo</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>Leo H52-2</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>Leo M66</b>	<b>Galaxy SAB(s)b</b>	<b>B,VL,ME150,MBM,2*NP</b>
Jun 19 2020 12"	13mmHW 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"	32mmUW VB,PL,EL,OVAL,BNUC,HISB,R=G		
Mar 10 2007 1.9"	12x50 B,PL,OVAL,NND,R=G		
Mar 19 2006 8"	19mmW PB,PL,EL,OVAL,BNUC,R=G		
Apr 04 2005 8"	11mmT6 VB,ML,EL,EON,NUC,HISB,R=E		
May 12 2004 8"	25mmPL L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004 8"	25mmPL 2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004 8"	25mmPL 1ST. QTR.		
<b>NGC 3628</b>	<b>Leo H8-5</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>Leo H338-2</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>Leo</b>	<b>Galaxy S0 sp</b>	<b>PB,S,R,SMBMN</b>
Apr 15 2007 31"	17mmT4 VB,PL,EONB,BNUC,HISB,R=G		

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<b>NGC 3631</b>	<b>UMa</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 3633</b>	<b>Leo</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 3636</b>	<b>Crt</b>	<b>H550-2</b>	<b>Galaxy E0</b>	<b>F,VS,R,LBM,*7F,P OF2</b>
Mar 01 2011 12"	7mm TV	F,CS,R,BNUC,R=G		
<b>NGC 3637</b>	<b>Crt</b>	<b>H551-2</b>	<b>Galaxy (R)SB(r)0^</b>	<b>F,VS,R,PSBM,*7P,FOF2</b>
Mar 01 2011 12"	7mm TV	F,CS,R,BNUC,R=G		
<b>NGC 3639</b>	<b>Leo</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		
<b>NGC 3640</b>	<b>Leo</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>Leo</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 3642</b>	<b>UMa</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 3643</b>	<b>Leo</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>Leo</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>Leo</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>Leo</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 3652</b>	<b>UMa</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 3653</b>	<b>Leo</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 3654</b>	<b>UMa</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		

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<b>NGC 3655</b> Mar 13 2007 8"	<b>Leo</b> 11mmT6	<b>H5-1</b> VF,VS,R,NND,AV,R=F	<b>Galaxy SA(s)c:</b>	<b>PB,PS,IR,BM,R</b>
<b>NGC 3656</b> May 30 2014 18"	<b>UMa</b> 8mm Ds	<b>H782-2</b> PF,PS,R,UB,NND,R=F	<b>Galaxy (R')I0: pec</b>	<b>PB,S,R,VGBM,*12P</b>
<b>NGC 3657</b> May 30 2014 18"	<b>UMa</b> 8mm Ds	<b>H768-3</b> PF,PS,R,UB,NND,R=F	<b>Galaxy SAB(rs)c pec</b>	<b>CF,VS,R,STELLAR</b>
<b>NGC 3659</b> Apr 13 2005 31"	<b>Leo</b> 11mmT6	<b>H53-2</b> MB,ML,EL,OVAL,NND,MSB,R=G	<b>Galaxy SB(s)m?</b>	<b>CF,S,LE,R</b>
<b>NGC 3662</b> Mar 30 2014 18"	<b>Leo</b> 7mm TV	<b>H4-4</b> VF,VS,OVAL,NND,R=F	<b>Galaxy SAB(r)bc pec</b>	<b>VF,S,ATT TO*13M</b>
<b>NGC 3664</b> Mar 17 2010 12"	<b>Leo</b> 11mmT6	<b>H4-4</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB(s)m pec</b>	<b>PF,BIN</b>
<b>NGC 3665</b> Mar 17 2007 8"	<b>Leo</b> 11mmT6	<b>H219-1</b> PB,L,OVAL,BNUC,R=G	<b>Galaxy SA(s)0^</b>	<b>CB,CL,IR,PGMBM</b>
<b>NGC 3666</b> May 13 2007 8"	<b>Leo</b> 11mmT6	<b>H20-1</b> CF,PS,EON,NND,R=F	<b>Galaxy SA(rs)c:</b>	<b>F,E90,*6F34S,5'N</b>
<b>NGC 3668</b> Jul 14 2010 12"	<b>UMa</b> 7.5mmW	<b>H845-2</b> VF,CS,R,UB,NND,AV,R=F	<b>Galaxy Sbc</b>	<b>F,PS,IR,GBM,*9NP</b>
<b>NGC 3669</b> Jul 14 2010 12"	<b>UMa</b> 7.5mmW	<b>H829-2</b> VF,CS,EON,UB,NND,AV,R=P	<b>Galaxy SBcd: sp</b>	<b>VF,PL,PME135,ER</b>
<b>NGC 3672</b> Mar 01 2011 12"	<b>Crt</b> 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 3674</b> May 30 2014 18"	<b>UMa</b> 8mm Ds	<b>H886-2</b> PF,PS,OVAL,EEXT,UB,NND,R=F,PA=25	<b>Galaxy S0 sp</b>	<b>PF,IF</b>
<b>NGC 3675</b> Mar 17 2007 8"	<b>UMa</b> 11mmT6	<b>H194-1</b> PB,PL,EL,OVAL,BNUC,R=G	<b>Galaxy SA(s)b</b>	<b>VB,CL,VME0,VSMBMN</b>
<b>NGC 3678</b> Mar 30 2014 18"	<b>Leo</b> 7mm TV	<b>H194-1</b> VF,VS,OVAL,NND,AV3,R=P	<b>Galaxy Sbc</b>	<b>VF,S,R,PSBM,*12NF</b>
<b>NGC 3679</b> Mar 30 2014 18"	<b>Leo</b> 7mm TV	<b>H112-3</b> VF,VS,OVAL,NND,AV1,R=P	<b>Galaxy Sbc</b>	<b>EF,CL,R,R,VNR VB*</b>
<b>NGC 3681</b> Apr 20 2018 12" May 13 2007 8"	<b>Leo</b> 11mmT6 11mmT6	<b>H159-2</b>  CF,CS,R,NND,AV,R=P	<b>Galaxy SAB(r)bc</b>	<b>B,PS,R,BM</b>

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<b>NGC 3682</b>	<b>Dra</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 3683</b>	<b>UMa</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 3684</b>	<b>Leo</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>Leo</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>Leo</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 3690</b>	<b>UMa</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		
<b>NGC 3691</b>	<b>Leo</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>Leo</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 3693</b>	<b>Crt</b>	<b>H532-3</b>	<b>Galaxy (R')SA(r)b:</b>	<b>CF,S,E,GBM</b>
Mar 01 2011 12"	5.5mmN	VF,VS,EON,UB,NND,AV,R=F		
<b>NGC 3697</b>	<b>Leo</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>Leo</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>Leo</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>Leo</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>Leo</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>Leo</b>		<b>Galaxy (R)SAB0^?</b>	<b>VF,VS</b>
May 14 2010 31"	17mmT4	PF,PS,OVAL,MEXT,UB,FNUC,R=F		



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<b>NGC 3718</b> May 23 2012 18" Feb 23 2006 31"	<b>UMa</b> 8.8 ES 17mmT4	<b>H221-1</b> F,S,OVAL,MEXT,UB,NND,R=F VB,VL,OVAL,BNUC,HISB,R=G	<b>Galaxy SB(s)a pec</b>	<b>PB,VL,R,VGLBM</b>
<b>NGC 3726</b> Mar 17 2007 8"	<b>UMa</b> 11mmT6	<b>H730-2</b> PF,PL,OVAL,NND,R=F	<b>Galaxy SAB(r)c</b>	<b>PB,VL,LE0,VSMBM,*11N</b>
<b>NGC 3729</b> Feb 23 2006 31"	<b>UMa</b> 17mmT4	<b>H222-1</b> FB,FL,R,BNUC,HISB,R=G	<b>Galaxy SB(r)a pec</b>	<b>PB,PL,LE0,GBM,*12NR</b>
<b>NGC 3732</b> Mar 01 2011 12"	<b>Crt</b> 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 3735</b> Jun 28 2019 12" Aug 31 2010 12" Aug 29 2010 12"	<b>Dra</b> 8mm Et 7mm TV 7mm TV	<b>H287-1</b> PF,S,EONL,UB,NND,R=G CF,PS,EON,UB,NND,R=F. PA=90 CF,PS,EON,UB,NND,R=F. PA=90	<b>Galaxy SAC: sp</b>	<b>PB,L,ME130,MBM</b>
<b>NGC 3736</b> Jul 13 2013 18"	<b>Dra</b> 7mm TV	<b>H287-1</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy Sb</b>	<b>VF,VS,R</b>
<b>NGC 3738</b> Jun 22 2012 18"	<b>UMa</b> 8.8 ES	<b>H783-2</b> B,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy Im</b>	<b>PB,PL,BM</b>
<b>NGC 3752</b> Jul 13 2013 18"	<b>Dra</b> 7mm TV	<b>H905-2</b> PF,PS,OVAL,MEXT,NND,R=F	<b>Galaxy Sab</b>	<b>PB,PL</b>
<b>NGC 3756</b> Mar 01 2011 12"	<b>UMa</b> 11mmT6	<b>H784-2</b> PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>PF,L,LE</b>
<b>NGC 3760</b> Mar 30 2014 18"	<b>Leo</b> 7mm TV	<b>H287-1</b> B,PS,EON,BNUC,R=G,PA=45	<b>Non-Existent</b>	<b>B,PS,MBMN=*13,*11 NR</b>
<b>NGC 3773</b> Apr 18 2012 18"	<b>Leo</b> 8.8 ES	<b>H81-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy S0</b>	<b>CF,CS,R,PSBM</b>
<b>NGC 3776</b> May 10 2005 31"	<b>Vir</b> 11mmT6	<b>H287-1</b> VF,S,OVAL,NND,R=F	<b>Galaxy Sb</b>	<b>EF,VS</b>
<b>NGC 3790</b> May 14 2010 31"	<b>Leo</b> 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"	<b>Leo</b> 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"	<b>Leo</b> 17mmT4	<b>H30-3</b> PB,PS,EON,UB,DNUC,R=G	<b>Galaxy S</b>	<b>VF,PS,2VB*P,3RD OF3</b>

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<b>NGC 3803</b>	<b>Leo</b>		<b>Galaxy</b>	<b>VF,S,R</b>
May 14 2010 31"	17mmT4	EF,VS,R,NND,AV,R=P		
<b>NGC 3807</b>	<b>Leo</b>		<b>Galaxy</b>	<b>VF, S, R (VF*?)</b>
May 14 2010 31"	17mmT4	DIFF,CF,CS,R,UB,NND,R=F		
<b>NGC 3810</b>	<b>Leo</b>	<b>H21-1</b>	<b>Galaxy SA(rs)c</b>	<b>B,L,VLE</b>
Apr 18 2012 18"	8.8 ES	PF,S,OVAL,FNUC,R=G		
Apr 26 2006 8"	11mmT6	PF,L,OVAL,UB,NND,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 3812</b>	<b>Leo</b>	<b>H320-3</b>	<b>Galaxy E</b>	<b>CF,VS,R,1STOF3,*6SF</b>
Apr 28 2006 31"	19mmW	CB,PL,R,FNUC,R=G		
<b>NGC 3813</b>	<b>UMa</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 3814</b>	<b>Leo</b>		<b>Galaxy S0</b>	<b>VS,NEBS*,P 3815</b>
Apr 28 2006 31"	19mmW	VF,PS,EL,OVAL,NND,R=F		
<b>NGC 3815</b>	<b>Leo</b>	<b>H339-3</b>	<b>Galaxy Sab</b>	<b>CF,S,3RD OF 3</b>
Apr 28 2006 31"	19mmW	CB,PL,OVAL,UB,NND,R=F		
<b>NGC 3816</b>	<b>Leo</b>		<b>Galaxy S0</b>	<b>F,S,BM</b>
Apr 28 2006 31"	19mmW	CB,CL,EL,OVAL,UB,NND,R=F		
<b>NGC 3817</b>	<b>Leo</b>		<b>Galaxy SB0/a</b>	<b>F,1ST OF 4</b>
May 18 2007 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F		
<b>NGC 3818</b>	<b>Vir</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 3819</b>	<b>Leo</b>		<b>Galaxy E?</b>	<b>VF,2ND OF 4</b>
May 18 2007 31"	17mmT4	PF,CS,OVAL,NND,R=F		
<b>NGC 3820</b>	<b>Leo</b>		<b>Galaxy S?</b>	<b>EF,VS,3819 S</b>
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
<b>NGC 3822</b>	<b>Vir</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>Vir</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>Vir</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		

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<b>NGC 3839</b> May 28 2006 31"	<b>Leo</b> 19mmW PF,PS,OVAL,NND,R=F	<b>Galaxy Sdm:</b>	<b>VF,S,R,LBM</b>
<b>NGC 3848</b> May 18 2007 31"	<b>Vir</b> <b>H35-3</b> 17mmT4 PB,PS,OVAL,UB,NND,R=G	<b>Galaxy Sc</b>	<b>EF,VS</b>
<b>NGC 3857</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy S0?</b>	<b>VF,VS,MBM</b>
<b>NGC 3859</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PL,EON,UB,NND,R=G	<b>Galaxy S?</b>	<b>EF,VS,R,LBM,(R)</b>
<b>NGC 3860</b> May 07 2007 31"	<b>Leo</b> <b>H386-3</b> 17mmT4 PB,PL,OVAL,UB,FNUC,R=G	<b>Galaxy S?</b>	<b>VF,VS,RESOLVABLE</b>
<b>NGC 3861</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy (R')SAB(r)b</b>	<b>F,S,R,BM</b>
<b>NGC 3862</b> May 13 2007 8" May 13 2007 8" May 07 2007 31"	<b>Leo</b> <b>H385-3</b> 11mmT6 CF,CS,EON,NND,R=F 11mmT6 VF,VS,R,NND,AV,R=F 17mmT4 PB,PL,R,FNUC,HISB,R=G	<b>Galaxy E</b>	<b>VF,VS,R,*17N</b>
<b>NGC 3863</b> Jun 24 2020 12"	<b>Vir</b> 8mm Et VFR,VS,EON,UB,NND,AV,R=P	<b>Galaxy Sbc</b>	<b>VF,ME70,GLBM,2'LONG</b>
<b>NGC 3864</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PF,PS,OVAL,NND,AV,R=F	<b>Galaxy S?</b>	<b>EF,VS,R</b>
<b>NGC 3867</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PL,OVAL,UB,NND,R=G	<b>Galaxy S?</b>	<b>F,S,IRRR,MBM,S OF 2</b>
<b>NGC 3868</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PS,OVAL,UB,NND,R=F	<b>Galaxy S?</b>	<b>VF,VS,R,MBM,N OF 2</b>
<b>NGC 3869</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PL,EON,FNUC,HISB,R=G	<b>Galaxy Sa</b>	<b>F,S,IR,PSBM</b>
<b>NGC 3872</b> Apr 18 2012 18" May 07 2007 31"	<b>Leo</b> <b>H104-2</b> 8.8 ES PF,PS,OVAL,FNUC,R=F 17mmT4 CB,PL,R,BNUC,HISB,R=G	<b>Galaxy E5</b>	<b>B,S,R,SMBM*</b>
<b>NGC 3873</b> May 07 2007 31"	<b>Leo</b> 17mmT4 PB,PL,R,FNUC,MSB,R=G	<b>Galaxy E</b>	<b>VF,PS,LE,3875 SF</b>
<b>NGC 3875</b> May 07 2007 31"	<b>Leo</b> <b>H387-3</b> 17mmT4 PB,PL,EON,UB,FNUC,R=G	<b>Galaxy S0/a</b>	<b>VF,VS,RESOLVABLE</b>

# Observations Listing by Catalog Number

<b>NGC 3877</b>	<b>UMa</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 3879</b>	<b>Dra</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 3883</b>	<b>Leo</b>	<b>H372-3</b>	<b>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>Leo</b>	<b>H388-3</b>	<b>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>Leo</b>		<b>Galaxy S0-:</b>	<b>F</b>
May 07 2007 31"	17mmT4	PB,PS,EON,UB,FNUC,R=G		
<b>NGC 3887</b>	<b>Crt</b>	<b>H120-1</b>	<b>Galaxy SB(r)bc</b>	<b>PB,L,IR,VGPMBM</b>
Mar 01 2011 12"	11mmT6	DIFF,PF,PS,OVAL,UB,NND,R=F		
<b>NGC 3888</b>	<b>UMa</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 3890</b>	<b>Dra</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 3892</b>	<b>Crt</b>	<b>H553-2</b>	<b>Galaxy SB(rs)0+</b>	<b>PB,PL,R,GBM,R</b>
Mar 01 2011 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 3893</b>	<b>UMa</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>UMa</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>UMa</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 3900</b>	<b>Leo</b>	<b>H82-1</b>	<b>Galaxy SA(r)0+</b>	<b>B,PL,VLE0,BMN</b>
Mar 29 2006 8"	11mmT6	F,L,OVAL,NND,R=F		
<b>NGC 3901</b>	<b>Cam</b>	<b>H970-3</b>	<b>Galaxy Scd:</b>	<b>PF,PL,RESOLVABLE</b>
May 25 2014 18"	8mm Ds	VF,PS,OVAL,VEXT,UB,NND,R=F		
<b>NGC 3902</b>	<b>Leo</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		

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<b>NGC 3910</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy S0-:</b> PB,PS,OVAL,DNUC,MSB,R=G	<b>S,R,MBM,*10,11N50"</b>
<b>NGC 3911</b> May 07 2007 31"	<b>Leo</b> 17mmT4	<b>H341-3</b>	<b>Galaxy SB?</b> DIFF,PF,PL,OVAL,NND,AV,R=F	<b>VF,S,P OF 2</b>
<b>NGC 3912</b> Mar 29 2006 8"	<b>Leo</b> 11mmT6	<b>H342-2</b>	<b>Galaxy SAB(s)b? pec</b> VF,VS,OVAL,NND,AV,R=F	<b>F,PL,R,PGBM</b>
<b>NGC 3919</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy E</b> PB,PS,R,BNUC,HISB,R=G	<b>F,S,R</b>
<b>NGC 3920</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy S?</b> PB,PL,R,UB,NND,R=G	<b>NEB,F OF 2</b>
<b>NGC 3923</b> Mar 01 2011 12"	<b>Hya</b> 11mmT6	<b>H259-1</b>	<b>Galaxy E4-5</b> PF,PS,OVAL,UB,NND,R=F	<b>B,PL,LE,GMBM,R,VS*SP</b>
<b>NGC 3925</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy SAB0/a</b> PF,PS,OVAL,UB,NND,R=F	<b>VF,VS</b>
<b>NGC 3926A</b> May 07 2007 31"	<b>Leo</b> 17mmT4	<b>H379-3</b>	<b>Galaxy E/S0</b> PB,S,R,UB,NND,R=F	<b>EF,ES,VLE,ER,ST NR</b>
<b>NGC 3926B</b> May 07 2007 31"	<b>Leo</b> 17mmT4	<b>H379-3</b>	<b>Galaxy E/S0</b> PB,PS,OVAL,UB,NND,R=G	<b>EF,ES,VLE,ER,ST NR</b>
<b>NGC 3929</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy E?</b> PB,PS,OVAL,UB,NND,R=F	<b>CL,S,ST F,VC</b>
<b>NGC 3933</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy S?</b> PF,PS,OVAL,UB,NND,R=F	<b>PF,LE</b>
<b>NGC 3934</b> May 07 2007 31"	<b>Leo</b> 17mmT4		<b>Galaxy S?</b> PF,PS,R,UB,NND,R=F	<b>EF,R</b>
<b>NGC 3937</b> May 07 2007 31"	<b>Leo</b> 17mmT4	<b>H389-3</b>	<b>Galaxy S0-:</b> PB,PL,OVAL,UB,FNUC,MSB,R=G	<b>EF, VS, 3937 F 12S</b>
<b>NGC 3938</b> Jun 03 2019 12" Mar 17 2007 8"	<b>UMa</b> 8mm Et 11mmT6	<b>H203-1</b>	<b>Galaxy SA(s)c</b> PF,S,R,UB,NND,R=F DIFF,PF,PL,OVAL,NND,R=F	<b>B,VL,R,BMPBN,ER</b>
<b>NGC 3940</b> May 07 2007 31"	<b>Leo</b> 17mmT4	<b>H380-3</b>	<b>Galaxy E</b> PB,PL,R,FNUC,HISB,R=G	<b>VF,CS,R</b>
<b>NGC 3941</b> Mar 17 2007 8"	<b>UMa</b> 11mmT6	<b>H173-1</b>	<b>Galaxy SB(s)0^</b> PB,CS,OVA,,BNUC,R=G	<b>VB,PL,R,SMBM*9</b>

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<b>NGC 3943</b> May 07 2007 31"	<b>Leo</b> 17mmT4	PB,PL,R,UB,NND,R=G	<b>Galaxy S?</b>	<b>PF,PS,E,*8P24S</b>
<b>NGC 3945</b> Mar 17 2007 8"	<b>UMa</b> 11mmT6	<b>H251-1</b> PF,S,OVAL,NND,R=F	<b>Galaxy (R)SB(rs)0+</b>	<b>B,PL,R,GMBM,R,*12SP</b>
<b>NGC 3949</b> Mar 17 2007 8"	<b>UMa</b> 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 3952</b> Mar 08 2010 12"	<b>Vir</b> 11mmT6	<b>H612-3</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy IBm: sp</b>	<b>CF,CS,LE90,BM,R</b>
<b>NGC 3953</b> Mar 18 2007 8"	<b>UMa</b> 11mmT6	<b>H45-5</b> PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy SB(r)bc</b>	<b>CB,L,E0,VSBMLRN</b>
<b>NGC 3961</b> Jul 13 2013 18" Feb 23 2006 31"	<b>Dra</b> 7mm TV 17mmT4	<b>H905-3</b> VF,VS,OVAL,NND,AV2,R=F FB,FL,OVALM,FNUC,MSB,R=G	<b>Galaxy (R)SB(r)a:</b>	<b>EF,VS</b>
<b>NGC 3962</b> Apr 26 2006 8"	<b>Crt</b> 19mmW	<b>H67-1</b> PF,PS,OVAL,NND,R=F	<b>Galaxy E1</b>	<b>CB,PL,IR,GMBM,TRI2*</b>
<b>NGC 3976</b> Apr 04 2005 8"	<b>Vir</b> 11mmT6	<b>H132-2</b> MF,EL,EON,NND,R=F	<b>Galaxy SAB(s)b</b>	<b>B,PL,CE30,VSBMBN</b>
<b>NGC 3982</b> Mar 18 2007 8"	<b>UMa</b> 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 3987</b> May 07 2007 31"	<b>Leo</b> 17mmT4	PB,CL,EON,UB,NND,R=G	<b>Galaxy Sb</b>	<b>F,ME</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>UMa</b> 11mmT6 17mmT4 17mmAT 17mmAT 26mm 26mm 19mmW 25mmPL 25mmPL	<b>M109 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 3993</b> May 07 2007 31"	<b>Leo</b> 17mmT4	PB,PL,EON,UB,FNUC,HISB,R=G	<b>Galaxy Sb: sp</b>	<b>VF,PS,E,3* NR</b>
<b>NGC 3997</b> May 07 2007 31"	<b>Leo</b> 17mmT4	PB,CL,OVAL,UB,FNUC,HISB,R=G	<b>Galaxy SBb pec</b>	<b>PF,VS,E25,BET 2ST</b>

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<b>NGC 3998</b> Mar 18 2007 8"	<b>UMa</b> 11mmT6	<b>H229-1</b> PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy SA(r)0<sup>^</sup>?</b>	<b>CB,PS,R,VG,SMBM</b>
<b>NGC 3999</b> May 07 2007 31"	<b>Leo</b> 17mmT4	DIFF,PF,CS,OVAL,NND,R=F	<b>Galaxy S0</b>	<b>VF,S</b>
<b>NGC 4000</b> May 07 2007 31"	<b>Leo</b> 17mmT4	PF,PL,EON,UB,NND,R=F	<b>Galaxy S?</b>	<b>VF,VS,LE,*8F2',05 SF</b>
<b>NGC 4002</b> May 14 2010 31"	<b>Leo</b> 17mmT4	<b>H344-3</b> PB,CS,OVAL,MEXT,BNUC,HSB,R=G	<b>Galaxy S0?</b>	<b>VF,VS,R,N OF 2</b>
<b>NGC 4004</b> Apr 28 2006 31"	<b>Leo</b> 19mmW	<b>H354-3</b> CF,CS,EON,UB,NND,R=F	<b>Galaxy Pec</b>	<b>F,VS,R,*12 NEAR</b>
<b>NGC 4005</b> May 07 2007 31"	<b>Leo</b> 17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy S?</b>	<b>PF,VS,MBM,*7NP2'</b>
<b>NGC 4007</b> May 14 2010 31"	<b>Leo</b> 17mmT4	<b>H325-3</b> PF,PS,OVAL,MEXT,BNUC,HSB,R=G	<b>Non-Existent</b>	
<b>NGC 4008</b> May 13 2007 8"	<b>Leo</b> 11mmT6	<b>H368-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy E5</b>	<b>PB,PS,E,PSBM,*INV N</b>
<b>NGC 4011</b> May 07 2007 31"	<b>Leo</b> 17mmT4	DIFF,CF,CS,OVAL,NND,V,R=F	<b>Galaxy S0</b>	<b>VF,VS,*12NP</b>
<b>NGC 4013</b> Mar 01 2011 12"	<b>UMa</b> 11mmT6	<b>H733-2</b> PF,PS,EON,BNUC,R=G	<b>Galaxy Sb sp</b>	<b>B,CL,ME62,VSVMBM*10</b>
<b>NGC 4024</b> Mar 18 2007 8"	<b>Crv</b> 11mmT6	<b>H295-2</b> PF,PS,R,NND,AV,R=F	<b>Galaxy SAB0-</b>	<b>F,VS,IF,BM</b>
<b>NGC 4026</b> Mar 18 2007 8"	<b>UMa</b> 11mmT6	<b>H223-1</b> PB,L,OVAL,FNUC,MSB,R=G	<b>Galaxy S0 sp</b>	<b>VB,CL,ME176,VSVMBMBN</b>
<b>NGC 4027</b> Apr 07 2008 31" Mar 29 2006 8"	<b>Crv</b> 17mmT4 11mmT6	<b>H296-2</b> PB,PS,R,UB,FNUC,MSB,R=G PF,PS,R,NND,AV,R=F	<b>Galaxy SB(s)dm</b>	<b>GCL,PF,PL,R,RR,ST16</b>
<b>NGC 4027A</b> Apr 07 2008 31"	<b>Crv</b> 17mmT4	VF,VS,R,NND,AV,R=F	<b>Galaxy IB(s)m:</b>	
<b>NGC 4030</b> Jun 03 2019 12" Apr 04 2005 8"	<b>Vir</b> 8mm Et 11mmT6	<b>H121-1</b> PF,S,R,UB,NND,R=F MB,OVAL,FNUC,MSB,R=G	<b>Galaxy SA(s)bc</b>	<b>CB,L,VLE,PSMBM,BSTNR</b>
<b>NGC 4032</b> Jun 09 2007 8"	<b>Com</b> 11mmT6	<b>H404-2</b> VF,PS,R,NND,AV,R=F	<b>Galaxy Im:</b>	<b>PF,PL,R,GBM,*12NF</b>

# Observations Listing by Catalog Number

<b>NGC 4033</b>	<b>Crv</b>	<b>H508-2</b>	<b>Galaxy E6</b>	<b>PB,S,LE,BM</b>
Mar 18 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 4034</b>	<b>Dra</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 4035</b>	<b>Crv</b>	<b>H279-3</b>	<b>Galaxy (R')SAB(rs)bc p</b>	<b>EF,PL,*9M NR</b>
Apr 07 2008 31"	17mmT4	PF,PS,OVAL,NND,LSB,R=F		
<b>NGC 4036</b>	<b>UMa</b>	<b>H253-1</b>	<b>Galaxy S0-</b>	<b>VB,VL,E</b>
Mar 18 2007 8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G		
<b>NGC 4037</b>	<b>Com</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 4038</b>	<b>Crv</b>	<b>H28.1-4</b>	<b>Galaxy SB(s)m pec</b>	<b>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>Crv</b>	<b>H28.2-4</b>	<b>Galaxy SA(s)m pec</b>	<b>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 4041</b>	<b>UMa</b>	<b>H252-1</b>	<b>Galaxy SA(rs)bc:</b>	<b>B,CL,R,G,PSVMBMRN</b>
Mar 18 2007 8"	11mmT6	PF,PL,R,NND,R=F		
<b>NGC 4045</b>	<b>Vir</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 4047</b>	<b>UMa</b>	<b>H741-2</b>	<b>Galaxy (R)SA(rs)b:</b>	<b>PB,PS,R</b>
Mar 01 2011 12"	11mmT6	PF,CS,R,UB,NND,R=F		
<b>NGC 4051</b>	<b>UMa</b>	<b>H56-4</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,VL,E,VGVSMBM*11</b>
Jun 03 2019 12"	8mm Et	PF,PS,R,FNUC,R=G		
Mar 18 2007 8"	11mmT6	PF,L,R,NND,AV,R=F		
<b>NGC 4062</b>	<b>UMa</b>	<b>H174-1</b>	<b>Galaxy SA(s)c</b>	<b>PB,VL,ME97,VGBM</b>
Mar 28 2011 12"	7mm TV	PF,PS,OVAL,PEXT,R=G,BRIGHTER TOWARDS THE MIDDLE		
<b>NGC 4064</b>	<b>Com</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		



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<b>NGC 4067</b> Mar 08 2010 12"	<b>Vir</b> 11mmT6	<b>H37-3</b> VF,CS,OVAL,UB,NND,AV,R=F	<b>Galaxy SA(s)b:</b>	<b>F,PS,R,GBM</b>
<b>NGC 4073</b> Jun 24 2020 12" Apr 04 2005 8"	<b>Vir</b> 8mm Et 11mmT6	<b>H277-2</b> VF,PS,OVAL,PEXT,NND,R=P VF,OVAL,NND,AV,R=F	<b>Galaxy E+</b>	<b>F,PS,R,PGBM,NP OF 2</b>
<b>NGC 4079</b> Mar 08 2010 12"	<b>Vir</b> 11mmT6	<b>H277-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy (R')SAB(rs)bc:</b>	<b>F,L,R,*10N1'</b>
<b>NGC 4085</b> Mar 18 2007 8"	<b>UMa</b> 11mmT6	<b>H224-1</b> VF,PS,EL,EON,NND,AV,R=F	<b>Galaxy SAB(s)c:?</b>	<b>B,PL,ME78,VSBM</b>
<b>NGC 4088</b> Mar 18 2007 8"	<b>UMa</b> 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 4094</b> Mar 18 2007 8"	<b>Crv</b> 11mmT6	<b>H206-1</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)cd:</b>	<b>EF,L,PME,VGBM,2*11NR</b>
<b>NGC 4096</b> Mar 01 2011 12"	<b>UMa</b> 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"	<b>UMa</b> 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"	<b>UMa</b> 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 4104</b> Mar 08 2010 12"	<b>Com</b> 11mmT6	<b>H370-2</b> CF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy S0</b>	<b>PB,PS,LE,BM</b>
<b>NGC 4105</b> Mar 28 2011 12"	<b>Hya</b> 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>
<b>NGC 4106</b> Mar 28 2011 12"	<b>Hya</b> 7mm TV	<b>H866-2</b> PF,CS,OVAL,UB,NND,R=F	<b>Galaxy SB(s)0+</b>	<b>PF,PS,R,PGBM, F OF 2</b>
<b>NGC 4108</b> Jun 28 2019 12" Aug 31 2010 12"	<b>Dra</b> 8mm Et 7mm TV	<b>H866-2</b> VF,PS,OVAL,NND,AV1,R=P VF,CS,OVAL,NND,AV,R=F. PA=90??	<b>Galaxy (R')SAC:</b>	<b>B,S,R,GBM</b>
<b>NGC 4111</b> Apr 13 2005 8"	<b>CVn</b> 11mmT6	<b>H195-1</b> VB,ML,EON,FNUC,MSB,R=G	<b>Galaxy SA(r)0+: sp</b>	<b>VB,PS,ME151</b>
<b>NGC 4114</b> Apr 07 2008 31" Mar 18 2007 8"	<b>Crv</b> 17mmT4 11mmT6	<b>H533-3</b> F,PS,OVAL,UB,NND,R=F VF,VS,R,NND,AV,R=F	<b>Galaxy (R')SAB(rs)a:</b>	<b>CF,S,IR,GBM</b>

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<b>NGC 4116</b>	<b>Vir</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>Vir</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 4120</b>	<b>Dra</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 4123</b>	<b>Vir</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>Vir</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 4125</b>	<b>Dra</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		
<b>NGC 4127</b>	<b>Cam</b>	<b>H279-1</b>	<b>Galaxy SAc?</b>	<b>F,PL,VLE,GLBM</b>
May 25 2014 18"	8mm Ds	VF,PS,OVAL,PEXT,UB,NND,R=F		
<b>NGC 4128</b>	<b>Dra</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>Dra</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 4136</b>	<b>Com</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 4138</b>	<b>CVn</b>	<b>H196-1</b>	<b>Galaxy SA(r)0+</b>	<b>B,PL,E,VGBM,*NP</b>
Mar 26 2009 16"	17mmT4	PB,PS,OVAL,FNUC,R=F		
<b>NGC 4143</b>	<b>CVn</b>	<b>H54-4</b>	<b>Galaxy SAB(s)0^</b>	<b>CB,R,VG,VSBMN</b>
Mar 29 2006 8"	19mmW	DIFF,F,L,OVAL,NND,R=F		
<b>NGC 4144</b>	<b>UMa</b>	<b>H747-2</b>	<b>Galaxy SAB(s)cd? sp</b>	<b>PF,CL,VME109,VGBM</b>
Mar 01 2011 12"	11mmT6	PF,PS,EON,FNUC,R=F		
<b>NGC 4145</b>	<b>CVn</b>	<b>H169-1</b>	<b>Galaxy SAB(rs)d</b>	<b>B,VL,VGLBM</b>
Jul 26 2019 12"	8mm Et	DIFF,VF,S,OVAL,NND,R=F		

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<b>NGC 4147</b>	<b>Com</b>	<b>H19-1</b>	<b>Globular</b>	<b>GCL,VB,PL,R,GBM,RRR</b>
Jun 19 2020 12"	13mmHW 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>Com</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 4151</b>	<b>CVn</b>	<b>H165-1</b>	<b>Galaxy (R')SAB(rs)ab:</b>	<b>VB,S,R,VSMBMBN,P OF2</b>
Mar 29 2006 8"	11mmT6	F,S,OVAL,NND,R=F		
<b>NGC 4152</b>	<b>Com</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 4156</b>	<b>CVn</b>	<b>H642-2</b>	<b>Galaxy SB(rs)b</b>	<b>PF,S,E,VGBM,F OF 2</b>
Mar 29 2006 8"	11mmT6	F,PS,R,NND,R=F		
<b>NGC 4157</b>	<b>UMa</b>	<b>H208-1</b>	<b>Galaxy SAB(s)b? sp</b>	<b>PF,CL,VME60,(DOUBLE)</b>
Mar 16 2012 18"	8.8 ES	PFB,PS,EON,FNUC,R=F, A.L.	FLAT GALAXY	
Aug 06 2010 12"	7mm TV	PF,PS,EON,UB,NND,R=F		
<b>NGC 4158</b>	<b>Com</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 4159</b>	<b>Dra</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 4162</b>	<b>Com</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 4168</b>	<b>Vir</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 4169</b>	<b>Com</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>Com</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 4177</b>	<b>Crv</b>	<b>H534-3</b>	<b>Galaxy SA(rs)c pec:</b>	<b>VF,PL,R,VGBM</b>
Apr 07 2008 31"	17mmT4	DIFF,F,S,OVAL,NND,LSB,R=F		
<b>NGC 4178</b>	<b>Vir</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>Vir</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		

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<b>NGC 4183</b>	<b>CVn</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 4185</b>	<b>Com</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 4188</b>	<b>Crv</b>		<b>Galaxy Sb</b>	<b>EF,PS</b>
Apr 07 2008 31"	17mmT4	F,S,R,NND,LSB,R=F		
<b>NGC 4189</b>	<b>Com</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>Com</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.		
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 4197</b>	<b>Vir</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 4203</b>	<b>Com</b>	<b>H175-1</b>	<b>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 4205</b>	<b>Dra</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 4206</b>	<b>Vir</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>Vir</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 4210</b>	<b>Dra</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 4212</b>	<b>Com</b>	<b>H108-2</b>	<b>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 4214</b>	<b>CVn</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		

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<b>NGC 4215</b>	<b>Vir</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>Vir</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 4217</b>	<b>CVn</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>CVn</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 4221</b>	<b>Dra</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 4222</b>	<b>Com</b>	<b>H109-2</b>	<b>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 4224</b>	<b>Vir</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 4225</b>	<b>Crv</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 4233</b>	<b>Vir</b>	<b>H496-2</b>	<b>Galaxy S0^</b>	<b>PF,R,VSMBMSN</b>
Apr 09 2008 8"	11mmT6	PF,CS,OVAL,FNUC,LSB,R=F		
<b>NGC 4235</b>	<b>Vir</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 4236</b>	<b>Dra</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 4237</b>	<b>Com</b>	<b>H11-2</b>	<b>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 4240</b>	<b>Vir</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>Vir</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 4244</b>	<b>CVn</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		

# Observations Listing by Catalog Number

<b>NGC 4245</b> May 17 2005 31"	<b>Com</b> 11mmT6	<b>H74-1</b> MF,VS,R,NND,R=F	<b>Galaxy SB(r)0/a:</b>	<b>CB,PL,VLE,SMBM,R</b>
<b>NGC 4248</b> Mar 26 2009 16"	<b>CVn</b> 17mmT4	<b>H742-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy I0? sp</b>	<b>VF,S,PME,PSBM</b>
<b>NGC 4250</b> Jun 28 2019 12" Aug 12 2010 12" Aug 06 2010 12"	<b>Dra</b> 8mm Et 7mm TV 7mm TV	<b>H264-1</b> PF,PS,OVAL,FNUC,R=G CF,PS,OVAL,UB,NND,R=F PF,CS,OVAL,UB,NND,R=F	<b>Galaxy SAB(r)0+</b>	<b>PB,S,R,PGBM</b>
<b>NGC 4251</b> May 17 2005 31"	<b>Com</b> 11mmT6	<b>H89-1</b> MB,ML,EL,EON,FNUC,MSB,R=G	<b>Galaxy SB0? sp</b>	<b>VB,S,E,VSVMBMN,*F90S</b>
<b>NGC 4254</b> Jun 03 2019 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" May 06 2007 1.9" Mar 26 2006 8" Mar 19 2004 8" Mar 13 2004 8"	<b>Com</b> 8mm Et 17mmAT 17mmAT 11mmT6 26mm 12x50 19mmW 25mmPL 25mmPL	<b>M99</b> PF,S,R,UB,NND,R=F 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 F,S,OVAL,NND,R=F F,S,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPUTER = ARGONAVIS	<b>Galaxy SA(s)c</b>	<b>B,L,R,GBM,R,3BRSPIRA</b>
<b>NGC 4255</b> May 18 2014 18"	<b>Vir</b> 8mm Ds		<b>Galaxy SB(r)0^</b>	<b>S,PMBM</b>
<b>NGC 4256</b> Jun 28 2019 12" Aug 31 2010 12" Jul 16 2009 16"	<b>Dra</b> 8mm Et 7mm TV 11mmT6	<b>H846-2</b> F,PS,EON,FNUC,R=G PF,PS,EON,FNUC,MSB,R=F. PA=170 PS,EON,NND,R=F	<b>Galaxy SA(s)b: sp</b>	<b>PB,L,CE38,BMBN</b>
<b>NGC 4258</b> Jul 08 2018 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 26 2006 8" Mar 19 2004 8" Dec 26 2003 8"	<b>CVn</b> 8mm Et 17mmAT 17mmAT 11mmT6 26mm 19mmW 25mmPL 25mmPL	<b>M106 H43-5</b> B,S,OVAL,MEXT,BNUC,R=G 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 MB,ML,OVAL,FNUC,MSB,,R=F 2004 MESSIER MARATHON - ARGONAVIS Q/M COLD	<b>Galaxy Sb</b>	<b>VB,VL,VME0,SBMBN</b>
<b>NGC 4260</b> Apr 14 2016 12" Apr 09 2008 8"	<b>Vir</b> 11mmT6 11mmT6	<b>H138-2</b> DIFF,PS,,S,R,UB,NND,R=F PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(s)a</b>	<b>PB,E,PSBM</b>

# Observations Listing by Catalog Number

<b>NGC 4261</b>	<b>Vir</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 4262</b>	<b>Com</b>	<b>H110-2</b>	<b>Galaxy SB(s)0-?</b>	<b>B,S,R,R</b>
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
<b>NGC 4264</b>	<b>Vir</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 4265</b>	<b>Crv</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 4267</b>	<b>Vir</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>Vir</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>Vir</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 4271</b>	<b>UMa</b>	<b>H804-2</b>	<b>Galaxy S0-:</b>	<b>PB,PL,IF</b>
Mar 28 2011 12"	5mm TV	PF,VS,OVAL,VFNUC,R=F		
<b>NGC 4273</b>	<b>Vir</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 4274</b>	<b>Com</b>	<b>H75-1</b>	<b>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>Com</b>	<b>H90-1</b>	<b>Galaxy E1-2</b>	<b>VB,PL,R,MBM,R,1STOF3</b>
Apr 16 2009 16"	17mmT4	PB,PS,R,FNUC,HSB,R=G		
May 17 2005 31"	11mmT6	PB,PL,R,BNUC,R=G		
<b>NGC 4281</b>	<b>Vir</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>Vir</b>		<b>Galaxy Sa</b>	<b>EF,PS,R</b>
Apr 29 2006 31"	19mmW	VF,S,OVAL,NND,AV,R=F		

# Observations Listing by Catalog Number

<b>NGC 4290</b> Mar 01 2011 12"	<b>UMa</b> 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 4291</b> Jun 28 2019 12" Apr 17 2015 18" Jul 14 2010 12"	<b>Dra</b> 8mm Et 8mm Ds 7.5mmW	<b>H275-1</b> VF,PS,OVAL,NND,R=P F,S,ROUND,UB,NND,R=F PF,CS,OVAL,FNUC,MSB,R=F	<b>Galaxy E</b>	<b>PB,VS,R,LBM,3*F</b>
<b>NGC 4293</b> Apr 26 2006 8" Apr 14 2004 8"	<b>Com</b> 11mmT6 25mmPL	<b>H5-5</b> PB,L,EON,UB,R=F CLEAR NIGHT - MEGASTAR CONTROL	<b>Galaxy (R)SB(s)0/a</b>	<b>F,VL,E,LBM,R</b>
<b>NGC 4294</b> Apr 04 2005 8"	<b>Vir</b> 11mmT6	<b>H61-2</b> MF,EL,EON,NND,AV,R=F	<b>Galaxy SB(s)cd</b>	<b>F,L,ME135,BIN,P OF 2</b>
<b>NGC 4298</b> May 14 2017 12" Apr 16 2009 16"	<b>Com</b> 11mmT6 17mmT4	<b>H111-2</b> PF,PS,OVAL,UB,NND,R=G. PF,VS,OVAL,UB,NND,R=F	<b>Galaxy SA(rs)c</b> PAIRED W/NGC4302	<b>F,L,E,VGBM,P OF 2</b>
<b>NGC 4299</b> Apr 04 2005 8"	<b>Vir</b> 11mmT6	<b>H62-2</b> VF,OVAL,NND,AV,R=F	<b>Galaxy SAB(s)dm:</b>	<b>F,L,LE,VGBM,F OF 2</b>
<b>NGC 4300</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	<b>H572-2</b> PF,PS,OVAL,FNUC,R=F	<b>Galaxy Sa</b>	<b>F,LE,VGBM</b>
<b>NGC 4302</b> May 14 2017 12" Apr 16 2009 16"	<b>Com</b> 11mmT6 17mmT4	<b>H112-2</b> PF,PS,EON,UB,NND,R=F. PF,PS,EON,UB,NND,R=F	<b>Galaxy Sc</b> PAIRED W/NGC4398	<b>L,VME177,F OF 2</b>
<b>NGC 4303</b> Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" May 06 2007 1.9" Mar 26 2006 8" Mar 19 2004 8" Mar 13 2004 8"	<b>Vir</b> 17mmAT 17mmAT 11mmT6 26mm 12x50 19mmW 25mmPL 25mmPL	<b>M61 H139-1</b> 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 PB,PS,OVAL,NND,R=G DIFF,F,L,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPUTER = ARGO NAVIS	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VSBM*,BIN</b>
<b>NGC 4305</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	<b>Galaxy SA(r)a</b> PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4306		<b>VF,R</b>
<b>NGC 4306</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	<b>Galaxy SB(s)0^:</b> PF,PS,OVAL,UB,NND,R=F,PAIRED W/.NGC-4305		<b>VF,PL,R,4305SP</b>
<b>NGC 4307</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	<b>Galaxy Sb sp</b> PF,PS,EON,UB,NND,R=F,PA=24		<b>PF,L,ME,3KNOTS</b>



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<b>NGC 4309</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	VF,PS,OVAL,UB,NND,R=F	<b>Galaxy SAB(r)0+</b>	<b>F,S,*11F12S</b>
<b>NGC 4310</b> Apr 16 2009 16"	<b>Com</b> 17mmT4	<b>H378-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy SB0</b>	<b>F,CL,LE,N OF 2</b>
<b>NGC 4312</b> Apr 16 2009 16"	<b>Com</b> 17mmT4	<b>H628-2</b> PB,PS,EON,FNUC,USB,R=G	<b>Galaxy SA(rs)ab: sp</b>	<b>PB,CL,E,GBM</b>
<b>NGC 4313</b> Apr 04 2005 8"	<b>Vir</b> 11mmT6	<b>H63-2</b> MF,EL,EON,NND,R=F	<b>Galaxy SA(rs)ab: sp</b>	<b>VF,L,E135,R</b>
<b>NGC 4314</b> May 17 2005 31"	<b>Com</b> 11mmT6	<b>H76-1</b> PB,PS,OVAL,FNUC,MSB,R=G	<b>Galaxy SB(rs)a</b>	<b>CB,L,E150,SBM,*NP</b>
<b>NGC 4319</b> Jun 28 2019 12" Jul 14 2010 12"	<b>Dra</b> 8mm Et 7.5mmW	<b>H276-1</b> F,PS,OVAL,FNUC,R=G CF,PS,R,UB,LSB,R=F	<b>Galaxy SB(r)ab</b>	<b>PB,PS,VLE,SBM</b>
<b>NGC 4321</b> May 31 2019 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 10 2007 1.9" Mar 26 2006 8" Mar 19 2004 8" Mar 13 2004 8"	<b>Com</b> 11mmT6 17mmAT 17mmAT 26mm 26mm 12x50 19mmW 25mmPL 25mmPL	<b>M100</b> NICE 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 F,S,OVAL,NND,R=F F,L,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPUTER = ARGO NAVIS	<b>Galaxy SAB(s)bc</b>	<b>PF,VL,R,VG,PSBMRN</b>
<b>NGC 4324</b> May 10 2005 8"	<b>Vir</b> 11mmT6	VF,VS,EL,OVAL,NND,R=F	<b>Galaxy SA(r)0+</b>	<b>PB,RORLE,BM</b>
<b>NGC 4326</b> May 10 2005 8"	<b>Vir</b> 11mmT6	<b>H141-2</b> MF,VS,R,NND,R=F	<b>Galaxy SAB(r)ab:</b>	<b>VF,S,R,BM,1ST OF 3</b>
<b>NGC 4330</b> May 10 2005 8"	<b>Vir</b> 11mmT6	VF,VS,EON,NND,AV,R=F	<b>Galaxy Scd?</b>	<b>VF,L,ME</b>
<b>NGC 4332</b> Jul 14 2010 12"	<b>Dra</b> 7.5mmW	<b>H847-2</b> CF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(s)a</b>	<b>PF,S,VLE,VGBM</b>
<b>NGC 4336</b> Apr 16 2009 16"	<b>Com</b> 17mmT4	<b>H406-2</b> VF,PS,R,UB,NND,R=F	<b>Galaxy SB0/a</b>	<b>VF,PL,IR,(BIN)</b>
<b>NGC 4339</b> Apr 09 2008 8"	<b>Vir</b> 11mmT6	<b>H143-2</b> PF,PS,R,FNUC,MSB,R=G	<b>Galaxy E0</b>	<b>B,PL,R,BM,3RD OF 3</b>

# Observations Listing by Catalog Number

<b>NGC 4340</b> May 17 2005 31"	<b>Com</b> 11mmT6	<b>H85-2</b> MB,PS,OVAL,NND,R=F	<b>Galaxy SB(r)0+</b>	<b>PB,S,R,PSBM</b>
<b>NGC 4341</b> Mar 30 2014 18"	<b>Vir</b> 7mm TV	<b>H95-3</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy SAB(s)0^ sp</b>	<b>EF,VS,R</b>
<b>NGC 4342</b> Mar 30 2014 18"	<b>Vir</b> 7mm TV	<b>H96-3</b> PF,PS,OVAL,BNUC,R=F	<b>Galaxy S0- sp</b>	<b>EF,VS,R</b>
<b>NGC 4343</b> Mar 30 2014 18" Apr 09 2008 8"	<b>Vir</b> 7mm TV 11mmT6	<b>H94-3</b> PF,PS,OVAL,MEXT,UB,NND,R=F PF,PS,EON,UB,NND,R=F	<b>Galaxy SA(rs)b:</b>	<b>PF,S,E,(D)</b>
<b>NGC 4346</b> Mar 29 2006 8"	<b>CVn</b> 11mmT6	<b>H210-1</b> F,S,EON,FNUC,R=F	<b>Galaxy S0 sp</b>	<b>VF,S,ME100,VSMBMBN</b>
<b>NGC 4348</b> Mar 30 2014 18"	<b>Vir</b> 7mm TV	<b>H625-2</b> PF,PS,EON,UB,NND,R=F,PA=40	<b>Galaxy SAbc: sp</b>	<b>F,PL,E70,VLBM</b>
<b>NGC 4350</b> Mar 30 2014 18" May 17 2005 31"	<b>Com</b> 7mm TV 11mmT6	<b>H86-2</b> VF,PS,OVAL,UB,NND,AV,R=P MB,PS,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy SA0 sp</b>	<b>CB,VS,ME,VSBM</b>
<b>NGC 4351</b> Mar 30 2014 18"	<b>Vir</b> 7mm TV	<b>H64-2</b> DIFF,PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SBab/</b>	<b>F,PL,IR,BM</b>
<b>NGC 4352</b> Mar 30 2014 18"	<b>Vir</b> 7mm TV	<b>H64-2</b> PF,PS,OVAL,PEXT,FNUC,R=G	<b>Galaxy SA0: sp</b>	<b>CF,CS,LE</b>
<b>NGC 4356</b> May 25 2014 18"	<b>Vir</b> 8mm Ds	<b>H481-3</b> PF,PS,EON,UB,NND,R=F, MAG 13 STAR ON SOUTH EDGE.	<b>Galaxy Scd:</b>	<b>VF</b>
<b>NGC 4359</b> Apr 16 2009 16"	<b>Com</b> 17mmT4	<b>H648-3</b> VF,VS,EL,OVAL,NND,AV,R=F	<b>Galaxy SB(rs)c? sp</b>	<b>CF,PME90,VLBM</b>
<b>NGC 4361</b> May 04 2005 8"	<b>Crv</b> 11mmT6	<b>H65-1</b> VF,VS,R,AV,R=F	<b>Planetary Neb 3a+2</b>	<b>VB,L,R,VSMBMN,R</b>
<b>NGC 4365</b> Apr 26 2006 8" May 22 2004 8"	<b>Vir</b> 11mmT6 25mmPL	<b>H30-1</b> PB,PL,OVAL,FNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy E3</b>	<b>CB,PL,VLE,GL,SMBM</b>
<b>NGC 4369</b> Mar 26 2009 16"	<b>CVn</b> 17mmT4	<b>H166-1</b> PF,PS,OVAL,USB,R=F	<b>Galaxy (R)SA(rs)a</b>	<b>CB,S,R,MBMN,R</b>
<b>NGC 4370</b> Mar 30 2014 18"	<b>Vir</b> 7mm TV	<b>H144-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy Sa sp</b>	<b>PF,PS,LE,BM</b>

# Observations Listing by Catalog Number

<b>NGC 4371</b>	<b>Vir</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>Vir</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>Vir</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 4379</b>	<b>Com</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 4380</b>	<b>Vir</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 4382</b>	<b>Com</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 4385</b>	<b>Vir</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 4386</b>	<b>Dra</b>	<b>H277-1</b>	<b>Galaxy SAB0^:</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 4387</b>	<b>Vir</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		

# Observations Listing by Catalog Number

<b>NGC 4388</b>	<b>Vir</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 4389</b>	<b>CVn</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 4391</b>	<b>Dra</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 4393</b>	<b>Com</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>Com</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 4395</b>	<b>CVn</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 4402</b>	<b>Vir</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		
<b>NGC 4403</b>	<b>Vir</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>Vir</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>Vir</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>Vir</b>		<b>Non-Existent</b>	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410B		

# Observations Listing by Catalog Number

<b>NGC 4410B</b>	<b>Vir</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>Vir</b>		<b>Galaxy SBdm</b>	
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F		
<b>NGC 4411B</b>	<b>Vir</b>		<b>Non-Existent</b>	
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4413</b>	<b>Vir</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 4414</b>	<b>Com</b>	<b>H77-1</b>	<b>Galaxy SA(rs)c?</b>	<b>VB,L,E,G,VSMBM*</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 4417</b>	<b>Vir</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 4419</b>	<b>Com</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 4420</b>	<b>Vir</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 4421</b>	<b>Com</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 4424</b>	<b>Vir</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>Vir</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		
<b>NGC 4429</b>	<b>Vir</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>Vir</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>Vir</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		

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<b>NGC 4435</b>	<b>Vir</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>Vir</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>Vir</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>Vir</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 4441</b>	<b>Dra</b>	<b>H848-2</b>	<b>Galaxy SAB0+ pec</b>	<b>PB,S,IR,BM</b>
Jul 14 2010 12"	7.5mmW	VF,PS,R,NND,AV,R=P		
<b>NGC 4442</b>	<b>Vir</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>Vir</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 4448</b>	<b>Com</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 4449</b>	<b>CVn</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 4450</b>	<b>Com</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 4451</b>	<b>Vir</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>Vir</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		

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<b>NGC 4454</b> May 25 2014 18"	<b>Vir</b> 8mm Ds	<b>H180-2</b> PF,PS,OVAL,NND,R=F	<b>Galaxy (R)SB(r)0/a</b>	<b>F,L,R,GBM,ER</b>
<b>NGC 4455</b> Jun 19 2020 12"	<b>Com</b> 8mm Et	<b>H355-2</b> PF,PS,OVAL,UB,NND,R=P	<b>Galaxy SB(s)d? sp</b>	<b>F,L,E,GBM,2B*NF</b>
<b>NGC 4457</b> May 22 2004 8"	<b>Vir</b> 25mmPL	<b>H35-2</b> DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy (R)SAB(s)0/a</b>	<b>CB,PS,R,SMBMN</b>
<b>NGC 4458</b> Jun 03 2019 12" Apr 09 2010 12"	<b>Vir</b> 8mm Et 11mmT6	<b>H121-2</b> PF,PS,R,UB,NND,R=F PB,PS,R,NND,R=G	<b>Galaxy E0-1</b>	<b>PB,S,R,BM,P OF 2</b>
<b>NGC 4459</b> Jun 03 2019 12" Apr 26 2006 8" Apr 14 2004 8"	<b>Com</b> 8mm Et 11mmT6 25mmPL	<b>H161-1</b> PF,PS,OVAL,UB,NND,R=F PF,PS,OVAL,NND,R=F CLEAR NIGHT - MEGASTAR CONTROL	<b>Galaxy SA(r)0+</b>	<b>PB,PL,IR,BM,R,*8SF2'</b>
<b>NGC 4460</b> Jul 26 2019 12"	<b>CVn</b> 8mm Et	<b>H212-1</b> PF,PS,EEXT,UB,NND,R=F	<b>Galaxy SB(s)0+? sp</b>	<b>B,PL,E123,PSBM</b>
<b>NGC 4461</b> Apr 09 2010 12"	<b>Vir</b> 11mmT6	<b>H122-2</b> PB,PS,OVAL,PEXT,BNUC,HSB,R=G	<b>Galaxy SB(s)0+:</b>	<b>PF,S,R,BM,F OF 2</b>
<b>NGC 4464</b> May 14 2007 31"	<b>Vir</b> 17mmT4	<b>H483-3</b> PB,PS,R,FNUC,MSB,R=G	<b>Galaxy S?</b>	<b>F,VS,R,PGBM</b>
<b>NGC 4465</b> May 14 2007 31"	<b>Vir</b> 17mmT4	<b>H122-2</b> PF,PS,R,UB,NND,R=F	<b>Galaxy Sc</b>	<b>VF,VDIF</b>
<b>NGC 4467</b> May 14 2007 31"	<b>Vir</b> 17mmT4	<b>H122-2</b> PF,CS,R,UB,NND,R=F	<b>Galaxy E2</b>	<b>VF,VS,LE</b>
<b>NGC 4468</b> Jun 03 2019 12"	<b>Com</b> 8mm Et	<b>H630-2</b> VF,VS,R,UB,NND,R=F	<b>Galaxy SA0-?</b>	<b>F,CL</b>
<b>NGC 4469</b> Apr 05 2005 8"	<b>Vir</b> 7.5mmW	<b>H157-2</b> MF,ML,EL,EON,NND,R=G	<b>Galaxy SB(s)0/a? sp</b>	<b>PF,PL,ME,BM,R</b>
<b>NGC 4470</b> May 25 2014 18"	<b>Vir</b> 8mm Ds	<b>H18-2</b> PF,PS,OVAL,FNUC,R=G	<b>Galaxy Sa?</b>	<b>F,PL,IR,BM</b>

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<b>NGC 4472</b>	<b>Vir</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 4473</b>	<b>Com</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>Com</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 4476</b>	<b>Vir</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 4477</b>	<b>Com</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 4478</b>	<b>Vir</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		
Apr 05 2005 8"	7.5mmW	MB,MS,R,FNUC,MSB,R=G		
<b>NGC 4479</b>	<b>Com</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 4482</b>	<b>Vir</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>Vir</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 4485</b>	<b>CVn</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		



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<b>NGC 4486</b>	<b>Vir</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>Vir</b>		<b>Galaxy E2</b>	
May 18 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND,R=F		
<b>NGC 4486B</b>	<b>Vir</b>		<b>Galaxy cE0</b>	
May 18 2014 18"	8mm Ds	VF,VSM,R,UB,NND,R=F		
<b>NGC 4487</b>	<b>Vir</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>Vir</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 4490</b>	<b>CVn</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 4491</b>	<b>Vir</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>Vir</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>Vir</b>		<b>Galaxy E+ pec:</b>	<b>VF,VS,IR</b>
May 14 2007 31"	17mmT4	PF,CL,OVAL,NND,R=F		
<b>NGC 4494</b>	<b>Com</b>	<b>H83-1</b>	<b>Galaxy E1-2</b>	<b>VB,PL,R,VSMBMM</b>
Apr 26 2006 8"	11mmT6	FB,FL,OVAL,FNUC,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
<b>NGC 4496A</b>	<b>Vir</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>Vir</b>		<b>Galaxy IB(s)m:</b>	
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 4497</b>	<b>Vir</b>	<b>H42-3</b>	<b>Galaxy SAB(s)0+:</b>	<b>VF</b>
May 14 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
<b>NGC 4501</b>	<b>Com</b>	<b>M88</b>	<b>Galaxy SA(rs)b</b>	<b>B,VL,VME</b>
Jun 03 2019 12"	8mm Et			
Jun 03 2019 12"	8mm Et	F,S,R,FNUC,R=F		
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 4503</b>	<b>Vir</b>	<b>H66-2</b>	<b>Galaxy SB0-:</b>	<b>PB,S,R,GBM</b>
May 14 2007 31"	17mmT4	PB,PL,EL,OVAL,BNUC,HISB,R=G		
<b>NGC 4504</b>	<b>Vir</b>	<b>H771-2</b>	<b>Galaxy SA(s)cd</b>	<b>PB,CL,IE,GVLBM,ER</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4512</b>	<b>Dra</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 4518</b>	<b>Vir</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>Vir</b>	<b>H158-2</b>	<b>Galaxy SB(rs)d</b>	<b>F,PL,R,BM,R</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
<b>NGC 4519A</b>	<b>Vir</b>		<b>Galaxy dS0?</b>	
May 14 2007 31"	17mmT4	CF,CS,OVAL,NND,R=F		
<b>NGC 4520</b>	<b>Vir</b>	<b>H757-3</b>	<b>Galaxy SA0- pec sp</b>	<b>VF,S,2VS*INV</b>
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,FNUC,R=F		
<b>NGC 4521</b>	<b>Dra</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 4522</b>	<b>Vir</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>Vir</b>	<b>H31-1</b>	<b>Galaxy SAB(s)0^:</b>	<b>VB,VL,ME120,PSMBM</b>
May 14 2007 31"	17mmT4	VB,CL,EON,BNUC,HISB,R=G		
Apr 26 2006 8"	11mmT6	VB,CS,EON,BNUC,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		

# Observations Listing by Catalog Number

<b>NGC 4527</b>	<b>Vir</b>	<b>H37-2</b>	<b>Galaxy SAB(s)bc</b>	<b>PB,L,PME69,MBM</b>
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G		
<b>NGC 4528</b>	<b>Vir</b>	<b>H67-2</b>	<b>Galaxy S0^:</b>	<b>PF,CS,R,BM,*9F30S</b>
May 14 2007 31"	17mmT4	PF,PS,OVAL,BNUC,HISB,R=G		
<b>NGC 4531</b>	<b>Vir</b>	<b>H175-2</b>	<b>Galaxy SB0+:</b>	<b>F,PL,R,VGBM</b>
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
<b>NGC 4532</b>	<b>Vir</b>	<b>H147-2</b>	<b>Galaxy IBm</b>	<b>PB,PL,PME,VGBM,R</b>
May 14 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G		
<b>NGC 4535</b>	<b>Vir</b>	<b>H500-2</b>	<b>Galaxy SAB(s)c</b>	<b>PF,VL,R</b>
Apr 26 2006 8"	11mmT6	F,VL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4536</b>	<b>Vir</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 4545</b>	<b>Dra</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 4546</b>	<b>Vir</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 4548</b>	<b>Com</b>	<b>M91 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		
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 4550</b>	<b>Vir</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>Vir</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		

# Observations Listing by Catalog Number

<b>NGC 4552</b>	<b>Vir</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 4559</b>	<b>Com</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>Com</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 4567</b>	<b>Vir</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>Vir</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>Vir</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>Vir</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 4571</b>	<b>Com</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 4572</b>	<b>Dra</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 4578</b>	<b>Vir</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		

# Observations Listing by Catalog Number

<b>NGC 4579</b>	<b>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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 4589</b>	<b>Dra</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 4590</b>	<b>Hya</b>	<b>M68</b>	<b>Globular</b>	<b>GCL,L,ERI,VC,IR,ST12</b>
Jun 19 2020 12"	13mmHW	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		
<b>NGC 4592</b>	<b>Vir</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>Vir</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		

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<b>NGC 4594</b>	<b>Vir</b>	<b>M104 H43-1</b>	<b>Galaxy SA(s)a sp</b>	<b>VB,VL,EE92,VSMBMN</b>
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		
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>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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 4605</b>	<b>UMa</b>	<b>H254-1</b>	<b>Galaxy SB(s)c pec</b>	<b>B,L,VME118,GLBM</b>
Aug 31 2010 12"	7mm TV	DIFF,CF,PS,OVAL,UB,NND,R=F. PA=90		
<b>NGC 4606</b>	<b>Vir</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>Vir</b>		<b>Galaxy SBb? sp</b>	<b>F,ME,3OR4'F4606</b>
May 18 2014 18"	8mm Ds	PF,S,EON,UB,NND,R=F,PA=179		

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<b>NGC 4608</b> Apr 08 2005 8"	<b>Vir</b> 11mmT6	<b>H69-2</b> MF,MS,OVAL,FNUC,R=G	<b>Galaxy SB(r)0^</b>	<b>PB,PL,R,PSBM,R,*NP1'</b>
<b>NGC 4612</b> Apr 08 2005 8"	<b>Vir</b> 11mmT6	<b>H148-2</b> MB,MS,OVAL,RNUC,R=G	<b>Galaxy (R)SAB0^</b>	<b>PB,S,R,PSMBM</b>
<b>NGC 4618</b> Apr 14 2010 16" Apr 06 2010 12" Mar 29 2006 8"	<b>CVn</b> 11mmT6 11mmT6 11mmT6	<b>H178-1</b> PF,PS,R,NND,R=F DIFF,PF,PS,R,NND,R=F PF,PS,OVAL,NND,AV,R=F	<b>Galaxy SB(rs)m</b>	<b>B,L,E,MBM,CVDBRANCHN</b>
<b>NGC 4621</b> Jun 03 2019 12" Apr 20 2018 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 10 2007 1.9" Mar 26 2006 8" Mar 19 2004 8" Mar 13 2004 8"	<b>Vir</b> 8mm Et 11mmT6 17mmAT 17mmAT 11mmT6 26mm 12x50 19mmW 25mmPL 25mmPL	<b>M59</b> PF,S,R,UB,NND,R=F  2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 B,PS,OVAL,FNUC,R=G F,L,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPUTER = ARGO NAVIS	<b>Galaxy E5</b>	<b>B,PL,LE,VSVMBM,2*P</b>
<b>NGC 4623</b> Apr 08 2005 8"	<b>Vir</b> 11mmT6	<b>H149-2</b> MF,MS,OVAL,NND,AV,R=F	<b>Galaxy SB0+: sp</b>	<b>CF,PL,E,PSLBM,R</b>
<b>NGC 4624</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	F,S,OVAL,BNUC,R=G	<b>Galaxy E0-1</b>	<b>B,E</b>
<b>NGC 4625</b> Apr 14 2010 16" Apr 06 2010 12"	<b>CVn</b> 11mmT6 11mmT6	<b>H660-2</b> PF,PS,R,UB,NND,R=F PF,CS,OVAL,NND,AV,R=P	<b>Galaxy SAB(rs)m pec</b>	<b>PF,S,R</b>
<b>NGC 4627</b> May 04 2005 8"	<b>CVn</b> 19mmW	<b>H659-2</b> MF,VS,OVAL,NND,R=F	<b>Galaxy E4 pec</b>	<b>F,S,R,NP OF 2</b>
<b>NGC 4630</b> Apr 08 2005 8"	<b>Vir</b> 7.5mmW	<b>H532-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy IB(s)m?</b>	<b>CF,S,R,LBM</b>
<b>NGC 4631</b> May 04 2005 8"	<b>CVn</b> 19mmW	<b>H42-5</b> MB,ML,EL,EON,FNUC,R=G	<b>Galaxy SB(s)d sp</b>	<b>VB,VL,EE70,BMN,*ATTN</b>
<b>NGC 4632</b> Apr 26 2009 16" Apr 08 2005 8"	<b>Vir</b> 17mmT4 7.5mmW	<b>H14-1</b> CF,CS,OVAL,NND,R=F VF,VS,OVAL,NND,R=F	<b>Galaxy SAc</b>	<b>PB,L,E45</b>

# Observations Listing by Catalog Number

<b>NGC 4636</b>	<b>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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		
<b>NGC 4648</b>	<b>Dra</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 4649</b>	<b>Vir</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 4651</b>	<b>Com</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 4653</b>	<b>Vir</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		



# Observations Listing by Catalog Number

<b>NGC 4654</b>	<b>Vir</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 4656</b>	<b>CVn</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 4660</b>	<b>Vir</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 4664</b>	<b>Vir</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 4665</b>	<b>Vir</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 4666</b>	<b>Vir</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 4667</b>	<b>Vir</b>		<b>Non-Existent</b>	<b>B,S,R,PSBM,( )</b>
Apr 20 2018 12"	11mmT6			
<b>NGC 4668</b>	<b>Vir</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 4684</b>	<b>Vir</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		
<b>NGC 4689</b>	<b>Com</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 4691</b>	<b>Vir</b>	<b>H182-2</b>	<b>Galaxy (R)SB(s)0/a pec</b>	<b>PB,PL,E90,MBM</b>
Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,MSB,R=G		
<b>NGC 4693</b>	<b>Dra</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 4697</b>	<b>Vir</b>	<b>H39-1</b>	<b>Galaxy E6</b>	<b>VB,L,LE45,SMBMN</b>
Apr 28 2006 31"	19mmW	CB,VL,OVAL,VBNUC,VHISB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
<b>NGC 4698</b>	<b>Vir</b>	<b>H8-1</b>	<b>Galaxy SA(s)ab</b>	<b>CB,PL,IR,BM,R</b>
Apr 13 2005 8"	11mmT6	MB,ML,EON,FNUC,MSB,R=G		

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<b>NGC 4699</b>	<b>Vir</b>	<b>H129-1</b>	<b>Galaxy SAB(rs)b</b>	<b>VB,R,VMBMRN,R</b>
Apr 28 2006 31"	19mmW	CB,CL,OVAL,BNUC,HISB,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
<b>NGC 4700</b>	<b>Vir</b>	<b>H524-3</b>	<b>Galaxy SB(s)c? sp</b>	<b>F,L,ME40,VLBM,B*P</b>
May 18 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=F,PA=48		
<b>NGC 4701</b>	<b>Vir</b>	<b>H578-2</b>	<b>Galaxy SA(s)cd</b>	<b>F,S</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4703</b>	<b>Vir</b>	<b>H514-3</b>	<b>Galaxy Sb sp</b>	<b>EF,CS,PME</b>
May 18 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=G,PA=153		
<b>NGC 4705</b>	<b>Vir</b>	<b>H610-3</b>	<b>Galaxy SAB(s)bc: sp</b>	<b>CF,PL,LE</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 4708</b>	<b>Vir</b>	<b>H722-3</b>	<b>Galaxy SA(r)ab pec?</b>	<b>EF,S</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, MEGASTAR SAYS 14.5 MAG.		
<b>NGC 4713</b>	<b>Vir</b>	<b>H140-1</b>	<b>Galaxy SAB(rs)d</b>	<b>PB,L,VLE,GLBM</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
<b>NGC 4716</b>	<b>Vir</b>		<b>Galaxy S0^ pec?</b>	<b>DNEB,NPBRIGHTER\$SMBM</b>
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4717		
<b>NGC 4717</b>	<b>Vir</b>		<b>Galaxy SB(rs)a pec?</b>	<b>DNEB SF ONE FAINTER</b>
May 18 2014 18"	8mm Ds	VF,PS,OVAL,MEXDT,UB,NND,R=F,PAIRED W/NGC-4716		
<b>NGC 4725</b>	<b>Com</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 4731</b>	<b>Vir</b>	<b>H41-1</b>	<b>Galaxy SB(s)cd</b>	<b>VF,PL,E</b>
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4733</b>	<b>Vir</b>	<b>H73-2</b>	<b>Galaxy E+:</b>	<b>CF,PL,LE,R,*12P</b>
Jun 24 2020 12"	8mm Et	VF,PS,R,UB,NND,R=P		
<b>NGC 4736</b>	<b>CVn</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 - ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		

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<b>NGC 4739</b> May 14 2007 31"	<b>Vir</b> 17mmT4	<b>H515-3</b> DIFF,PF,PL,R,NND,R=F	<b>Galaxy E+ pec:</b>	<b>F,PL,LE,PGLBM</b>
<b>NGC 4742</b> Apr 13 2005 8"	<b>Vir</b> 11mmT6	<b>H133-1</b> MF,MS,EL,FNUC,R=F	<b>Galaxy E4:</b>	<b>PB,VS,VBMN=*11,*10SF</b>
<b>NGC 4749</b> Feb 23 2006 31"	<b>Dra</b> 17mmT4	<b>H907-3</b> MB,ML,EON,UB,NND,R=G	<b>Galaxy Sb? sp</b>	<b>VF,CL,E135</b>
<b>NGC 4750</b> Jul 01 2019 12" Feb 23 2006 31"	<b>Dra</b> 8mm Et 17mmT4	<b>H78-4</b> PF,PS,R,UB,NND,R=G VB,VL,R,BNUC,HISB,R=G	<b>Galaxy (R)SA(rs)ab</b>	<b>PB,L,R,VG,VSBM</b>
<b>NGC 4753</b> Apr 28 2006 31" May 22 2004 8"	<b>Vir</b> 19mmW 25mmPL	<b>H16-1</b> CB,CL,OVAL,BNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy I0</b>	<b>CB,L,VLE,VGLBM</b>
<b>NGC 4754</b> Apr 28 2006 31" Apr 14 2004 8"	<b>Vir</b> 19mmW 25mmPL	<b>H25-1</b> CB,CL,OVAL,UB,FNUC,MSB,R=G CLEAR NIGHT - MEGASTAR CONTROL	<b>Galaxy SB(r)0-:</b>	<b>B,PL,R,PSBM,P OF 2</b>
<b>NGC 4756</b> Sep 15 2004 8"	<b>Crv</b> 7.5mmW	<b>H281-3</b> EF,PATCH,NND,AV,R=F, MAG=13.0	<b>Galaxy SAB(s)0^?</b>	<b>VF,PS,RESOLVABLE</b>
<b>NGC 4759B</b> May 18 2007 31"	<b>Vir</b> 17mmT4	CB,PL,R,BNUC,HISB,R=E	<b>Non-Existent</b>	
<b>NGC 4760</b> Apr 13 2005 8"	<b>Vir</b> 11mmT6	VF,ML,OVAL,NND,AV,R=F	<b>Galaxy E0?</b>	<b>PB,R</b>
<b>NGC 4761</b> May 18 2007 31"	<b>Vir</b> 17mmT4	CB,PL,OVAL,BNUC,HISB,R=E	<b>Galaxy E+</b>	<b>EF,ES,1'F DNEB4759</b>
<b>NGC 4762</b> Apr 28 2006 31" Apr 14 2004 8"	<b>Vir</b> 19mmW 25mmPL	<b>H75-2</b> CB,VL,EON,BNUC,VHISB,R=G CLEAR NIGHT - MEGASTAR CONTROL	<b>Galaxy SB(r)0^? sp</b>	<b>PB,VME31,3B*S,F OF 2</b>
<b>NGC 4764</b> May 18 2007 31"	<b>Vir</b> 17mmT4	PB,PS,OVAL,NND,MSB,R=G	<b>Galaxy S?</b>	<b>EF,ES,SF DNEB 4759</b>
<b>NGC 4771</b> Jun 24 2020 12"	<b>Vir</b> 8mm Et	<b>H535-2</b> VF,PS,R,UB,NND,R=P	<b>Galaxy SAd? sp</b>	<b>F,PL,ME,*9P90DEG</b>
<b>NGC 4772</b> Apr 08 2005 8"	<b>Vir</b> 11mmT6	<b>H24-2</b> VB,VS,EL,NND,R=F	<b>Galaxy SA(s)a</b>	<b>PF,PS,R,MBM</b>
<b>NGC 4775</b> Apr 14 2016 12"	<b>Vir</b> 11mmT6	<b>H186-2</b> VF,PS,R,UB,NND,R=F	<b>Galaxy SA(s)d</b>	<b>F,CL,R,VGLBM,R</b>

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<b>NGC 4778</b> May 18 2007 31"	<b>Vir</b> 17mmT4	CB,PL,R,BNUC,HISB,R=E	<b>Galaxy S0+ sp</b>	<b>VF,S,R,VLBM,F OFDNEB</b>
<b>NGC 4781</b> Apr 13 2005 8"	<b>Vir</b> 11mmT6	<b>H134-1</b> MF,ML,EL,NND,R=F	<b>Galaxy SB(rs)d</b>	<b>CB,VL,ME</b>
<b>NGC 4800</b> Mar 29 2006 8"	<b>CVn</b> 11mmT6	<b>H211-1</b> PF,PS,R,NND,R=F	<b>Galaxy SA(rs)b</b>	<b>PB,CS,R,PSBM,*14P</b>
<b>NGC 4809</b> May 18 2007 31"	<b>Vir</b> 17mmT4	CF,PL,EON,NND,R=F	<b>Galaxy Im pec</b>	<b>F,DNEB W/4810</b>
<b>NGC 4810</b> May 18 2007 31"	<b>Vir</b> 17mmT4	PF,PS,OVAL,NND,R=F	<b>Galaxy Im pec</b>	<b>F,DNEB W/4809</b>
<b>NGC 4816</b> May 18 2009 31"	<b>Com</b> 17mmT4	<b>H383-2</b> PB,PS,OVAL,BNUC,MHISB,R=G	<b>Galaxy S0-</b>	<b>VF,PL</b>
<b>NGC 4818</b> May 22 2004 8"	<b>Vir</b> 25mmPL	<b>H549-2</b> DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SAB(rs)ab pec:</b>	<b>PB,L,PME0,GBM</b>
<b>NGC 4824</b> May 18 2009 31"	<b>Com</b> 17mmT4	PF,CS,R,UB,NND,R=F	<b>Galaxy SA0</b>	<b>VF,VS</b>
<b>NGC 4826</b> Jun 19 2020 12" May 14 2017 12" Sep 19 2014 12" Mar 16 2012 18" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 10 2007 1.9" Mar 26 2006 8" Mar 19 2004 8" Mar 13 2004 8"	<b>Com</b> 30mmES 11mmT6 17mmAT 17mmAT 17mmAT 11mmT6 26mm 12x50 19mmW 25mmPL 25mmPL	<b>M64</b> GOOD R=E PF,L,OVAL,FNUC,R=F, HOME - 8/14/14 2012 M.M. 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 B,PL,OVAL,NND,R=G PB,PL,EL,OVAL,BNUC,R=G 2004 MESSIER MARATHON - ARGO NAVIS COMPUTER = ARGO NAVIS	<b>Galaxy (R)SA(rs)ab</b>	<b>VB,VL,VME120,BMSBN</b>
<b>NGC 4845</b> May 04 2005 8"	<b>Vir</b> 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"	<b>Vir</b> 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 4857</b> Feb 23 2006 31"	<b>Dra</b> 17mmT4	<b>H908-3</b> PB,FL,OVAL,FNUC,MSB,R=G	<b>Galaxy SABb</b>	<b>EF,VS,IR,VLBM</b>

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<b>NGC 4861</b> Apr 06 2010 12"	<b>CVn</b> 11mmT6	<b>H30-4</b> PF,PS,EON,NND,AV,R=F	<b>Galaxy SB(s)m:</b>	<b>VF,PL,VME30,BET2ST</b>
<b>NGC 4866</b> Apr 28 2006 31" May 22 2004 8"	<b>Vir</b> 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 4868</b> Jul 26 2019 12"	<b>CVn</b> 8mm Et	<b>H644-2</b> VF,VS,R,NND,R=F	<b>Galaxy SAab?</b>	<b>PB,S,R,MBM</b>
<b>NGC 4874</b> Apr 18 2012 18"	<b>Com</b> 8.8 ES	<b>H389-2</b> PF,PS,R,UB,NND,R=F	<b>Galaxy E+0</b>	<b>F,4869\$72 P</b>
<b>NGC 4880</b> Apr 09 2008 8"	<b>Vir</b> 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 4889</b> Apr 18 2012 18" Apr 13 2005 8"	<b>Com</b> 8.8 ES 7.5mmW	<b>H391-2</b> PF,PS,R,MEXT,UB,NND,R=F VF,VS,NND,AV,R=F	<b>Non-Existent</b>	<b>PB,PME,BM,*7N</b>
<b>NGC 4900</b> Apr 28 2006 31"	<b>Vir</b> 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"	<b>Vir</b> 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"	<b>Vir</b> 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 4914</b> Mar 26 2009 16"	<b>CVn</b> 17mmT4	<b>H645-2</b> PF,PS,OVAL,FNUC,R=F	<b>Galaxy E</b>	<b>PB,CS,R,SMBM,*17NP</b>
<b>NGC 4915</b> Apr 09 2008 8"	<b>Vir</b> 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"	<b>Vir</b> 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 4931</b> Apr 13 2005 8"	<b>Com</b> 11mmT6	<b>H47-4</b> VB,ML,OVAL,FNUC,MSB,R=G	<b>Galaxy S0 sp</b>	<b>F,S</b>
<b>NGC 4933A</b> May 18 2007 31"	<b>Vir</b> 17mmT4	<b>H47-4</b> CB,PL,OVAL,BNUC,HISB,R=G	<b>Galaxy S0/a pec</b>	
<b>NGC 4933B</b> May 18 2007 31"	<b>Vir</b> 17mmT4	<b>H47-4</b> PB,PS,OVAL,FNUC,MSB,R=G	<b>Galaxy E pec</b>	

# Observations Listing by Catalog Number

<b>NGC 4939</b>	<b>Vir</b>	<b>H561-2</b>	<b>Galaxy SA(s)bc</b>	<b>PB,L,R,GMBM</b>
Apr 09 2008 8"	11mmT6	DIFF,VF,PL,OVAL,NND,LSB,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 4941</b>	<b>Vir</b>	<b>H40-1</b>	<b>Galaxy (R)SAB(r)ab:</b>	<b>PF,L,E,GBMBN,R</b>
Apr 09 2008 8"	11mmT6	PF,CS,EL,OVAL,UB,NND,R=F		
<b>NGC 4956</b>	<b>CVn</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 4958</b>	<b>Vir</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>Vir</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>Vir</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>Vir</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>Vir</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 5005</b>	<b>CVn</b>	<b>H96-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VME66,VSBMN</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 5012</b>	<b>Com</b>	<b>H85-1</b>	<b>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 5018</b>	<b>Vir</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>Vir</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>Vir</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 5023</b>	<b>CVn</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		

# Observations Listing by Catalog Number

<b>NGC 5024</b>	<b>Com</b>	<b>M53</b>	<b>Globular</b>	<b>GCL,B,VC,IR,VVMBM,</b>
Jun 19 2020 12"	13mmHW	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 5033</b>	<b>CVn</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 5037</b>	<b>Vir</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>Vir</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 5053</b>	<b>Com</b>	<b>H7-6</b>	<b>Globular</b>	<b>CL,VF,PL,IR,VGBM,*15</b>
Jun 19 2020 12"	13mmHW	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 5054</b>	<b>Vir</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 5055</b>	<b>CVn</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 5056</b>	<b>Com</b>	<b>H306-3</b>	<b>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>NGC 5061</b>	<b>Hya</b>	<b>H138-1</b>	<b>Galaxy E0</b>	<b>VB,S,R,VSMBM,*1OF</b>
Mar 01 2011 12"	11mmT6	PF,PS,R,BNUC,R=G		

# Observations Listing by Catalog Number

<b>NGC 5068</b>	<b>Vir</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>Vir</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 5078</b>	<b>Hya</b>	<b>H566-2</b>	<b>Galaxy SA(s)a: sp</b>	<b>PB,PS,CE,PSBM,*7,8F</b>
Mar 01 2011 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5084</b>	<b>Vir</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		
<b>NGC 5087</b>	<b>Vir</b>	<b>H724-3</b>	<b>Galaxy SA0:</b>	<b>CF,VS,IF</b>
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=G		
<b>NGC 5103</b>	<b>CVn</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>CVn</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>CVn</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 5128</b>	<b>Cen</b>		<b>Galaxy S0 pec</b>	<b>VB,VL,VME122,BIFID</b>
Mar 21 2009 31"	17mmT4	DIFF,VL,VF,NND,LSB,R=F		
<b>NGC 5129</b>	<b>Vir</b>	<b>H653-2</b>	<b>Galaxy E</b>	<b>PB,VS,R,GMBM,**F</b>
Apr 09 2008 8"	11mmT6	PF,PS,R,NND,AV,R=F		
<b>NGC 5134</b>	<b>Vir</b>	<b>H314-2</b>	<b>Galaxy SA(s)b?</b>	<b>F,PS,LE,VGBM</b>
Apr 09 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5144</b>	<b>UMi</b>	<b>H70-4</b>	<b>Galaxy SAc? pec</b>	<b>(PLN),CB,S,R,G,SLBM</b>
Sep 02 2016 12"	8mm Et	VF,VS,OCAL,UB,NND,R=F		
<b>NGC 5145</b>	<b>CVn</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 5146</b>	<b>Vir</b>	<b>H115-3</b>	<b>Galaxy E/S0</b>	<b>VF,VS,STELLAR</b>
Apr 06 2010 12"	11mmT6	CF,CS,R,UB,NND,R=F		
<b>NGC 5147</b>	<b>Vir</b>	<b>H25-2</b>	<b>Galaxy SB(s)dm</b>	<b>PB,PL,VLE,VSMBM*12</b>
Jun 03 2019 12"	8mm Et	VF,VS,R,UB,NND,AV1,R=F		
<b>NGC 5173</b>	<b>CVn</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		



## Observations Listing by Catalog Number

<b>NGC 5194</b>	<b>CVn</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"	20mmOP	GOOD		
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
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>CVn</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"	20mmOP	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>CVn</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 5204</b>	<b>UMa</b>	<b>H63-4</b>	<b>Galaxy SA(s)m</b>	<b>PB,CL,IR,GMBM,R</b>
Mar 01 2011 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		

## Observations Listing by Catalog Number

<b>NGC 5221</b>	<b>Vir</b>	<b>H86-3</b>	<b>Galaxy Sb:</b>	<b>VF,S,VLE,1ST OF 3</b>
May 23 2012 18"	8.8 ES	PF,PS,EON,FNUC,MSB,R=F,PA=120		
<b>NGC 5222</b>	<b>Vir</b>	<b>H85-3</b>	<b>Galaxy E</b>	<b>CF,S,R,BM,2ND OF 3</b>
May 23 2012 18"	8.8 ES	VF,CS,OVAL,MEXT,UB,,NND,AV2,R=F,PA=50		
<b>NGC 5230</b>	<b>Vir</b>	<b>H87-3</b>	<b>Galaxy SA(s)c</b>	<b>F,L,E,VGBM,3RD OF 3</b>
May 23 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F		
<b>NGC 5236</b>	<b>Hya</b>	<b>M83</b>	<b>Galaxy SAB(s)c</b>	<b>VB,VL,E55,ESBMN,SPIR</b>
Jun 19 2020 12"	13mmHW	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		
<b>NGC 5247</b>	<b>Vir</b>	<b>H297-2</b>	<b>Galaxy SA(s)bc</b>	<b>CF,VL,VG,PSMBMLN,</b>
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 5248</b>	<b>Boo</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 5257</b>	<b>Vir</b>	<b>H895-2</b>	<b>Galaxy SAB(s)b pec</b>	<b>VF,S,R,BM,P OF DNEB</b>
May 23 2012 18"	8.8 ES	PF,CS,OVAL,MEXT,FNUC,R=G,PA=135, PAIRED WITH NGC-5258, NO INTERATION VISIBLE		
<b>NGC 5258</b>	<b>Vir</b>	<b>H896-2</b>	<b>Galaxy SA(s)b: pec</b>	<b>F,S,IR,F OF DNEB</b>
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,FNUC,R=G,PA=45, PAIRED W/NGC-5257, NO INTERATION VISIBLE		

# Observations Listing by Catalog Number

<b>NGC</b>	<b>5272</b>	<b>CVn</b>	<b>M3</b>	<b>Globular</b>	<b>GCL,EB,VL,VSMBM,*11.</b>
	Jun 19 2020	12"	13mmHW	GREAT	
	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>CVn</b>	<b>H98-1</b>	<b>Galaxy SA(s)0^</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>CVn</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>5293</b>	<b>Boo</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</b>	<b>5295</b>	<b>Cam</b>	<b>H946-3</b>	<b>Galaxy</b>	<b>VF,VS,R</b>
	May 25 2014	18"	8mm Ds	VF,VS,R,NND,AV3,R=P	
<b>NGC</b>	<b>5297</b>	<b>CVn</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>5308</b>	<b>UMa</b>	<b>H255-1</b>	<b>Galaxy S0- sp</b>	<b>B,PL,ME57,PSMBEN</b>
	Mar 01 2011	12"	11mmT6	PF,CS,EON,FNUC,R=G	
<b>NGC</b>	<b>5322</b>	<b>UMa</b>	<b>H256-1</b>	<b>Galaxy E3-4</b>	<b>VB,PL,IR,PSMBM</b>
	Mar 18 2007	8"	11mmT6	PB,L,OVAL,FNUC,HISB,R=G	
<b>NGC</b>	<b>5326</b>	<b>CVn</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>5332</b>	<b>Boo</b>		<b>Galaxy S0-:</b>	<b>VF,S,R</b>
	Jul 05 2016	12"	8mm Et	VF,VS,R,UB,NND,R=F	

## Observations Listing by Catalog Number

<b>NGC 5347</b>	<b>CVn</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 5350</b>	<b>CVn</b>	<b>H713-2</b>	<b>Galaxy SB(r)b</b>	<b>CF,PL,BM,*7P,1ST OF4</b>
May 12 2005 31"	19mmW	VB,ML,OVAL,FNUC,MSB,R=G		
<b>NGC 5351</b>	<b>CVn</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 5353</b>	<b>CVn</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 5354</b>	<b>CVn</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		
<b>NGC 5355</b>	<b>CVn</b>	<b>H699-3</b>	<b>Galaxy S0?</b>	<b>VF,PS,4TH OF 4</b>
May 12 2005 31"	19mmW	MB,ML,EL,OVAL,FNUC,R=G		
<b>NGC 5358</b>	<b>CVn</b>		<b>Galaxy S0/a</b>	<b>VF,VS,R,2VF*INV</b>
May 12 2005 31"	19mmW	MB,FS,EL,OVALFNUC,R=G		
<b>NGC 5363</b>	<b>Vir</b>	<b>H6-1</b>	<b>Galaxy I0?</b>	<b>B,PL,R,PSBM,*8NF</b>
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
Apr 28 2006 31"	19mmW	PB,S,R,FNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 5364</b>	<b>Vir</b>	<b>H534-2</b>	<b>Galaxy SA(rs)bc pec</b>	<b>CF,L,R,GBM</b>
Apr 28 2006 31"	19mmW	B,CS,R,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 5371</b>	<b>CVn</b>	<b>H716-2</b>	<b>Galaxy SBbc</b>	<b>PB,L,R,BMFN</b>
May 12 2005 31"	19mmW	MB,ML,OVAL,BNUC,HISB,R=G		
<b>NGC 5383</b>	<b>CVn</b>	<b>H181-1</b>	<b>Galaxy (R')SB(rs)b: p</b>	<b>CB,CL,R,GBM</b>
Mar 28 2011 12"	7mm TV	PF,PS,R,FNUC,R=G		
<b>NGC 5395</b>	<b>CVn</b>	<b>H190-1</b>	<b>Galaxy SA(s)b pec</b>	<b>CF,CL,E15,LBM,SF OF2</b>
Jul 26 2019 12"	8mm Et	VF,PS,OVAL,MEXT,NND,R=F		
<b>NGC 5406</b>	<b>CVn</b>	<b>H699-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>F,PS,R,LBM</b>
Jul 26 2019 12"	8mm Et	PF,PS,OVAL,NND,R=F		
<b>NGC 5414</b>	<b>Boo</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>Boo</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		

# Observations Listing by Catalog Number

<b>NGC 5417</b>	<b>Boo</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>Boo</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 5426</b>	<b>Vir</b>	<b>H309-2</b>	<b>Galaxy SA(s)c pec</b>	<b>PF,CL,R,GMBM,SP OF 2</b>
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,R=F. PAIRED W/NGC-5427		
May 23 2012 18"	8.8 ES	PB,PS,OVAL,FNUC,MSB,R=G,PA=5, PAIRED WITH NGC-5427		
Apr 09 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5427</b>	<b>Vir</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 5430</b>	<b>UMa</b>	<b>H827-2</b>	<b>Galaxy SB(s)b</b>	<b>PB,S,IE,MBM</b>
Mar 01 2011 12"	11mmT6	CF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5434A</b>	<b>Boo</b>		<b>Non-Existent</b>	
Jul 05 2016 12"	7mm TV	VVF,VS,EON,UB,NND,R=F,AV2		
<b>NGC 5434B</b>	<b>Boo</b>		<b>Galaxy Sc</b>	
Jul 05 2016 12"	7mm TV	VVF,VS,EON,UB,NND,R=F,AV2		
<b>NGC 5440</b>	<b>CVn</b>	<b>H416-2</b>	<b>Galaxy Sa</b>	<b>PF,CS,LE,BM,*11SP</b>
Mar 28 2011 12"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=G		
<b>NGC 5443</b>	<b>UMa</b>	<b>H799-2</b>	<b>Galaxy SB(s)b?</b>	<b>PF,L,E</b>
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
<b>NGC 5444</b>	<b>CVn</b>	<b>H417-2</b>	<b>Galaxy E+:</b>	<b>PB,PL,IVLE,VSMBM</b>
Mar 28 2011 12"	7mm TV	DIFF,CF,PS,OVAL,MEXT,UB,R=F		
<b>NGC 5445</b>	<b>CVn</b>	<b>H413-3</b>	<b>Galaxy S0?</b>	<b>F,*13P</b>
Mar 28 2011 12"	7mm TV	CF,CS,OVAL,VEXT,UB,NND,R=F		
<b>NGC 5447</b>	<b>UMa</b>	<b>H787-3</b>	<b>Knot in Galaxy</b>	<b>PB,S,R,GMBM,CONNM101</b>
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SW SIDE OF - KNOT IN GALAXY		
<b>NGC 5448</b>	<b>UMa</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		

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<b>NGC 5457</b>	<b>UMa</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>UMa</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 5466</b>	<b>Boo</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 5473</b>	<b>UMa</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>UMa</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>UMa</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>UMa</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>UMa</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 5490</b>	<b>Boo</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>Boo</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>Boo</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 5493</b>	<b>Vir</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		

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<b>NGC 5497</b> May 22 2006 31"	<b>Boo</b> 19mmW	F,S,OVL,NND,R=F	<b>Galaxy SB(s)b</b>	<b>EF,S,R,LBM</b>
<b>NGC 5504A</b> Jul 05 2016 12"	<b>Boo</b> 7mm TV	PF,VS,OVAL,UB,NND,R=F	<b>Non-Existent</b>	
<b>NGC 5506</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H687-2</b> DIFF,CF,PS,EON,NND,R=F	<b>Galaxy Sa pec sp</b>	<b>PB,L,E20,LBM</b>
<b>NGC 5507</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H49-4</b> PF,CS,OVAL,MEXT,FNUC,MR=G	<b>Galaxy SAB(r)0^</b>	<b>CF,S,R,STELLAR</b>
<b>NGC 5509</b> Jun 03 2005 31"	<b>Boo</b> 11mmT6	MB,VS,OVAL,NND,R=F	<b>Galaxy E/S0</b>	<b>VF,S,R,STELLAR NUCL</b>
<b>NGC 5513</b> Jun 03 2005 31"	<b>Boo</b> 11mmT6	<b>H877-2</b> MB,MS,EL,FNUC,MSB,R=G	<b>Galaxy S0</b>	<b>PB,PL,IR</b>
<b>NGC 5515</b> Jul 05 2016 12"	<b>Boo</b> 7mm TV	<b>H685-3</b> VF,VS,OVAL,UB,NND,AV,R=F	<b>Galaxy Sab</b>	<b>VF,S,VLE</b>
<b>NGC 5520</b> Apr 29 2011 12" May 21 2009 16"	<b>Boo</b> 7mm TV 11mmT6	<b>H676-3</b> PF,PS,OVAL,MEXT,FNUC,R=F PF,PS,OVAL,UB,NND,R=F	<b>Galaxy Sb</b>	<b>F,S,LE,STELLAR</b>
<b>NGC 5523</b> May 21 2009 16"	<b>Boo</b> 11mmT6	<b>H134-3</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy SA(s)cd:</b>	<b>F,PL,PME90,*10NP</b>
<b>NGC 5529</b> Apr 26 2009 16" May 13 2007 8"	<b>Boo</b> 11mmT6 11mmT6	<b>H414-3</b> CF,CS,EON,UB,NND,R=F VF,PS,EON,NND,AV,R=F	<b>Galaxy Sc: sp</b>	<b>CF,PL,VME110,VGVMBM</b>
<b>NGC 5532</b> Jun 19 2020 12"	<b>Boo</b> 8mm Et	<b>H47-3</b> F,PS,R,UB,NND,R=G	<b>Galaxy S0</b>	<b>VF,VS,R,GBM,R</b>
<b>NGC 5532A</b> Jul 05 2016 12"	<b>Boo</b> 8mm Et	VF,VS,FNUC,R=F,PAIRED W/NGC-5532B	<b>Non-Existent</b>	
<b>NGC 5532B</b> Jul 05 2016 12"	<b>Boo</b> 8mm Et	VF,VS,OVAL,UB,NND,R=F,PAIRED W/NGC-5532A	<b>Galaxy S0</b>	
<b>NGC 5533</b> Apr 26 2009 16" May 13 2007 8"	<b>Boo</b> 11mmT6 11mmT6	<b>H418-2</b> PF,PS,EL,OVAL,FNUC,R=F PF,PS,OVAL,NND,R=F	<b>Galaxy SA(rs)ab</b>	<b>PB,R,VSMBM,20R3*INV</b>
<b>NGC 5534</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	PF,PS,OVAL,FNUC,R=F	<b>Galaxy (R')SAB(s)ab p:</b>	<b>PF,ST INV,*12NP</b>

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<b>NGC 5536</b> May 22 2006 31"	<b>Boo</b> 19mmW	<b>H731-3</b> PB,CS,R,NND,R=G	<b>Galaxy SBa</b>	<b>CF,VS,R,SP OF 2</b>
<b>NGC 5541</b> May 22 2006 31"	<b>Boo</b> 19mmW	<b>H732-3</b> CB,PL,OVAL,FNUC,R=G	<b>Galaxy S?</b>	<b>CF,S,R,GBM,NF OF 2</b>
<b>NGC 5548</b> May 13 2007 8"	<b>Boo</b> 11mmT6	<b>H194-2</b> PF,PS,R,NND,R=F	<b>Galaxy (R')SA(s)0/a</b>	<b>CF,PS,R,VSVMBM*</b>
<b>NGC 5549</b> May 18 2014 18"	<b>Vir</b> 8mm Ds	<b>H552-3</b> PF,PS,OVAL,MET,FNUC,R=F	<b>Galaxy S0</b>	<b>VF,VS,R</b>
<b>NGC 5557</b> Mar 29 2006 8"	<b>Boo</b> 11mmT6	<b>H99-1</b> F,S,R,FNUC,R=F	<b>Galaxy E1</b>	<b>CB,S,R,VSBM*</b>
<b>NGC 5559</b> May 04 2005 8"	<b>Boo</b> 11mmT6	<b>H347-3</b> MB,MS,OVAL,FNUC,R=G	<b>Galaxy SBb</b>	<b>VF,S,VLE,BM</b>
<b>NGC 5560</b> May 30 2016 12" May 23 2012 18" Apr 28 2006 31"	<b>Vir</b> 8mm Ds 8.8 ES 19mmW	<b>H579-2</b> PF,PS,VEXT,NND,R=G PB,PS,EON,FNUC,HSB,R=F,PA=150 B,PL,EON,UB,NND,R=F	<b>Galaxy SB(s)b pec</b>	<b>PF,CL,E,GBM</b>
<b>NGC 5566</b> May 30 2016 12" May 23 2012 18" Apr 28 2006 31" May 22 2004 8"	<b>Vir</b> 8mm Ds 8.8 ES 19mmW 25mmPL	<b>H144-1</b> PF,PS,PEXT,FNUC,R=G PB,PS,OVAL,PEXT,BNUC,R=G, PAIRED WITH NGC-5569 CB,CL,EON,BNUC,HISB,R=G DECENT NIGHT - MEGASTAR CONTROL	<b>Galaxy SB(r)ab</b>	<b>B,PL,R,PSBM,R,*F1.5'</b>
<b>NGC 5569</b> May 30 2016 12" May 23 2012 18"	<b>Vir</b> 8mm Ds 8.8 ES	<b>Galaxy SAB(rs)cd:</b> VF,VS,R,NND,R=F PF,PS,OVAL,MEXT,UB,NND,AV1,R=F, PAIRED WITH NGC-5566	<b>Galaxy SAB(rs)cd:</b>	<b>EF,PL,R</b>
<b>NGC 5574</b> May 30 2016 12" Apr 28 2006 31"	<b>Vir</b> 7mm TV 19mmW	<b>H145-1</b> PF,PS,OVAL,NND,R=F F,CL,OVAL,UB,NND,R=F	<b>Galaxy SB0:-? sp</b>	<b>PF,PS,LE,P OF 2</b>
<b>NGC 5576</b> May 30 2016 12" Apr 28 2006 31"	<b>Vir</b> 7mm TV 19mmW	<b>H146-1</b> F,PS,OVAL,MEXT,FNUC,R=F B,L,OVALBNUC,HISB,R=G	<b>Galaxy E3</b>	<b>B,S,R,VSMBM,F OF 2</b>
<b>NGC 5577</b> May 30 2016 12"	<b>Vir</b> 8mm Ds	<b>Galaxy SA(rs)bc:</b> VF,PS,EON,UB,NND,AV1,R=F	<b>Galaxy SA(rs)bc:</b>	<b>PF,PL,VME53</b>
<b>NGC 5580</b> Jul 01 2016 12"	<b>Boo</b> 8mm Et	<b>Galaxy SABcd</b> PF,PS,OVAL,NND,R=F	<b>Galaxy SABcd</b>	<b>PB,S,F OF 2</b>



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<b>NGC 5582</b>	<b>Boo</b>	<b>H754-2</b>	<b>Galaxy E</b>	<b>PB,PS,R,BMFN,*SP</b>
Apr 29 2011 12"	7mm TV	PF,PS,OVAL,BNUC,R=G,PA=95		
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,NND,R=F		
<b>NGC 5585</b>	<b>UMa</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 5587</b>	<b>Boo</b>	<b>H110-3</b>	<b>Galaxy S0/a</b>	<b>F,CS,VLE,*8SF</b>
Apr 29 2011 12"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F		
<b>NGC 5590</b>	<b>Boo</b>	<b>H417-3</b>	<b>Galaxy S0</b>	<b>CF,S,R,BM*,SF OF 2</b>
Apr 26 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F		
<b>NGC 5595</b>	<b>Lib</b>	<b>H121-3</b>	<b>Galaxy SAB(rs)c</b>	<b>F,PL,R,VGBM,P OF 2</b>
May 28 2006 31"	19mmW	PF,PS,OVA,NND,R=F		
<b>NGC 5597</b>	<b>Lib</b>	<b>H122-3</b>	<b>Galaxy SAB(s)cd</b>	<b>VF,L,VLE,VGLBM,F OF2</b>
Jun 03 2019 12"	8mm Et	VF,PS,OVAL,NND,AV2,R=F		
May 28 2006 31"	19mmW	F,S,OVA,NND,R=F		
<b>NGC 5598</b>	<b>Boo</b>	<b>H733-3</b>	<b>Galaxy S0</b>	<b>F,VS,R,BM</b>
May 22 2006 31"	19mmW	PB,PL,OVAL,NND,R=G		
<b>NGC 5599</b>	<b>Vir</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		
<b>NGC 5600</b>	<b>Boo</b>	<b>H177-2</b>	<b>Galaxy Sc pec</b>	<b>PB,PS,GBM</b>
Jul 01 2016 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Aug 03 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5602</b>	<b>Boo</b>	<b>H694-2</b>	<b>Galaxy Sa</b>	<b>PF,PS,LE,MBM</b>
May 21 2009 16"	11mmT6	CF,PS,OVAL,NND,R=F		
<b>NGC 5603</b>	<b>Boo</b>	<b>H734-3</b>	<b>Galaxy S0</b>	<b>CF,PS,R,GBM</b>
May 22 2006 31"	19mmW	F,PL,R,NND,R=F		
<b>NGC 5605</b>	<b>Lib</b>	<b>H120-3</b>	<b>Galaxy (R')SAB(rs)c p:</b>	<b>VF,PL,R,VGBM</b>
May 28 2006 31"	19mmW	CF,PS,OVAL,NND,R=F		
<b>NGC 5611</b>	<b>Boo</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>Boo</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>Boo</b>	<b>H420-2</b>	<b>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		

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<b>NGC 5618</b> Apr 28 2006 31"	<b>Vir</b> 19mmW	<b>H763-3</b> PF,PS,OVAL,NND,R=F	<b>Galaxy SB(rs)c</b>	<b>EF,S</b>
<b>NGC 5619</b> Apr 28 2006 31"	<b>Vir</b> 19mmW	<b>H763-3</b> PF,PS,EL,OVAL,FNUC,R=F	<b>Galaxy SAB(rs)b</b>	<b>VF,S,R,VGBM</b>
<b>NGC 5623</b> Jul 01 2016 12"	<b>Boo</b> 8mm Et	<b>H329-2</b> VF,VS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>CF,S,R,VSMBM,R</b>
<b>NGC 5630</b> Jul 05 2016 12"	<b>Boo</b> 7mm TV	<b>H674-2</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy Sdm:</b>	<b>F,S,E90,GBM</b>
<b>NGC 5631</b> Mar 18 2007 8"	<b>UMa</b> 11mmT6	<b>H236-1</b> CF,CS,R,NND,R=F	<b>Galaxy SA(s)0^</b>	<b>B,S,R,PSBMN</b>
<b>NGC 5633</b> Jul 01 2016 12"	<b>Boo</b> 8mm Et	<b>H185-1</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy (R)SA(rs)b</b>	<b>CB,PS,R,PGLBM</b>
<b>NGC 5634</b> Jun 19 2020 12" May 30 2016 12" Apr 14 2016 12" Apr 28 2006 31" Jun 23 2004 8"	<b>Vir</b> 13mmHW 8mm Et 11mmT6 19mmW 25mmPL	<b>H70-1</b> SMALL AND FAINT.R=F F,S,R=F SURPRISE IN VIRGO. PB,CL,R,R=G, CAN'T RESOLVE STARTS. VIII QUARTER MOON, LEFT @1:30AM.	<b>Globular</b>	<b>GCL,VB,CL,R,GBM,RRR</b>
<b>NGC 5635</b> Jul 05 2016 12"	<b>Boo</b> 7mm TV	<b>H132-3</b> VF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy S pec</b>	<b>F,S,E,SBM</b>
<b>NGC 5636</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H580-2</b> VF,CS,OVAL,UB,NND,R=F	<b>Galaxy SAB(r)0+</b>	<b>EF,CL,R,NP OF 2</b>
<b>NGC 5638</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H581-2</b> PF,PS,R,UB,NND,R=F	<b>Galaxy E1</b>	<b>CB,PL,R,SF OF 2</b>
<b>NGC 5640</b> May 25 2014 18"	<b>Cam</b> 8mm Ds	<b>H949-3</b> VF,VS,R,UB,NND,AV3,R=P	<b>Galaxy Ia</b>	<b>EF,S,LE</b>
<b>NGC 5646</b> Jun 05 2011 31"	<b>Boo</b> 17mmT4	<b>H949-3</b> F,S,OVAL,PEXT,UB,NND,R=F,PA=170, MAG 10 STAR AT SOUTHERN TIP	<b>Galaxy SBb:</b>	<b>EF,E SPNF,45"L</b>
<b>NGC 5652</b> Apr 28 2006 31"	<b>Vir</b> 19mmW	<b>H891-2</b> F,S,OVAL,UB,NND,R=F	<b>Non-Existent</b>	<b>PB,PL,VLE,BM</b>
<b>NGC 5653</b> Aug 03 2008 8"	<b>Boo</b> 11mmT6	<b>H330-2</b> VF,VS,OVAL,NND,AV,R=F	<b>Galaxy (R')SA(rs)b</b>	<b>PF,PS,R,BM</b>
<b>NGC 5656</b> Jun 05 2011 31"	<b>Boo</b> 17mmT4	<b>H421-2</b> PF,PS,R,BNUC,HSB,R=G, POSSIBLE ARM STRUCTURE DETECTED.	<b>Galaxy Sab</b>	<b>PF,PL,R,MBM,R</b>

# Observations Listing by Catalog Number

<b>NGC 5660</b>	<b>Boo</b>	<b>H695-2</b>	<b>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 5661</b>	<b>Vir</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 5663</b>	<b>Lib</b>		<b>Galaxy SA0-:</b>	<b>EF,VS,R,GLBM</b>
May 28 2006 31"	19mmW	CF,CS,R,NND,R=F		
<b>NGC 5664</b>	<b>Lib</b>		<b>Galaxy Sa</b>	<b>PF,S,E,GBM</b>
Apr 14 2016 12"	11mmT6	VF,PS,OVAL,UB,NND,R=G		
May 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
<b>NGC 5665</b>	<b>Boo</b>	<b>H27-2</b>	<b>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 5667</b>	<b>Dra</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		
<b>NGC 5668</b>	<b>Vir</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 5673</b>	<b>Boo</b>	<b>H696-2</b>	<b>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>Boo</b>	<b>H422-2</b>	<b>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>Boo</b>	<b>H189-1</b>	<b>Galaxy SA(rs)bc</b>	<b>B,L,E45,PGBM,R</b>
Apr 26 2006 8"	11mmT6	F,L,EL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 5678</b>	<b>Dra</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 5679A</b>	<b>Vir</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>Vir</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 5684</b>	<b>Boo</b>	<b>H421-3</b>	<b>Galaxy S0</b>	<b>F,CS,R,BM,P OF 2</b>
Jun 05 2011 31"	17mmT4	PF,PS,R,FNUC,R=F		

# Observations Listing by Catalog Number

<b>NGC 5686</b> Jun 05 2011 31"	<b>Boo</b> 17mmT4	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"	<b>Boo</b> 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"	<b>Boo</b> 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 5694</b> Apr 13 2005 8"	<b>Hya</b> 7.5mmW	<b>H196-2</b> VS,VF,R,R=F	<b>Globular</b>	<b>CB,CS,R,PSBM,R,*9SP</b>
<b>NGC 5695</b> Jun 05 2011 31"	<b>Boo</b> 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 5701</b> May 30 2016 12" Apr 29 2006 31"	<b>Vir</b> 8mm Ds 19mmW	<b>H575-2</b> PF,PS,R,UB,NND,R=F CB,S,R,FNUC,MSB,R=F	<b>Galaxy (R)SB(rs)0/a</b>	<b>CB,PS,R,MBM,*11P15S</b>
<b>NGC 5716</b> May 28 2006 31"	<b>Lib</b> 19mmW	<b>H671-3</b> CF,PS,OVAL,NND,R=F	<b>Galaxy SB(rs)c?</b>	<b>VF,PL,R</b>
<b>NGC 5718</b> May 23 2012 18" Apr 18 2012 18"	<b>Vir</b> 8.8 ES 11mmT6	<b>H550-3</b> CF,PS,OVAL,MEXT,UB,NND,AV2,R=F PB,PS,EON,FNUC,HSB,R=G, PA=60	<b>Galaxy S0-:</b>	<b>VF,S,R,VGLBM,*8,9NF</b>
<b>NGC 5726</b> May 28 2006 31"	<b>Lib</b> 19mmW	CF,CS,OVAL,NND,R=F	<b>Galaxy S0- pec sp</b>	<b>F,S,R,GBM,*10.5NP3'</b>
<b>NGC 5728</b> Jun 19 2004 8"	<b>Lib</b> 25mmPL	<b>H184-1</b> GOOD NIGHT - MEGASTAR	<b>Galaxy SAB(r)a:</b>	<b>PF,PL,PME45,MBM,*10S</b>
<b>NGC 5729</b> May 28 2006 31"	<b>Lib</b> 19mmW	<b>H508-3</b> PF,PS,EON,NND,R=F	<b>Galaxy Sb pec:</b>	<b>F,PL,E,R</b>
<b>NGC 5734</b> May 28 2006 31"	<b>Lib</b> 19mmW	F,CS,OVAL,NND,R=F	<b>Galaxy S0^ pec sp</b>	<b>VF,S,LE,GLBM</b>
<b>NGC 5741</b> May 28 2006 31"	<b>Lib</b> 19mmW	PF,S,R,NND,R=F	<b>Galaxy E</b>	<b>VF,VS,R,SBMN</b>
<b>NGC 5742</b> May 28 2006 31"	<b>Lib</b> 19mmW	PF,S,EON,NND,R=F	<b>Galaxy SB(r)0^?</b>	<b>F,PS,PME,GBMN</b>
<b>NGC 5743</b> May 28 2006 31"	<b>Lib</b> 19mmW	CF,CS,OVAL,NND,R=F	<b>Galaxy Sb:</b>	<b>F,S,ME,SMBMN</b>
<b>NGC 5744</b> May 29 2006 31"	<b>Lib</b> 19mmW	PF,CS,R,NND,R=F	<b>Galaxy (R')SB(rs)d:</b>	<b>EF,VS,(NEB)</b>

# Observations Listing by Catalog Number

<b>NGC 5745</b> May 29 2006 31"	<b>Lib</b> 19mmW	CF,S,OVA,NND,R=F	<b>Galaxy Sa pec sp</b>	<b>VF,S,E,PSLBM</b>
<b>NGC 5746</b> May 04 2005 8"	<b>Vir</b> 11mmT6	<b>H126-1</b> VB,VL,EL,EON,FNUC,R=G	<b>Galaxy SAB(rs)b? sp</b>	<b>B,L,VME170,BMBN</b>
<b>NGC 5750</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H183-1</b> CF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(r)0/a</b>	<b>PF,PS,VLE,R</b>
<b>NGC 5753</b> Jun 05 2011 31"	<b>Boo</b> 17mmT4	PF,PS,R,FNUC,HSB,R=G	<b>Galaxy</b>	<b>F,BM,NP5754</b>
<b>NGC 5754</b> Jun 05 2011 31"	<b>Boo</b> 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 5756</b> May 29 2006 31"	<b>Lib</b> 19mmW	F,PS,EON,NND,R=F	<b>Galaxy (R')SB(s)bc p</b>	<b>PB,PL,PME,GPMBM</b>
<b>NGC 5757</b> May 29 2006 31"	<b>Lib</b> 19mmW	<b>H690-3</b> F,PS,OVAL,NND,R=F	<b>Galaxy (R)SB(r)b</b>	<b>VF,S,IR,LBM</b>
<b>NGC 5761</b> May 29 2006 31"	<b>Lib</b> 19mmW	PF,S,R,NND,R=F	<b>Galaxy S0^ pec:</b>	<b>VF,S,R,GLBMN</b>
<b>NGC 5766</b> May 29 2006 31"	<b>Lib</b> 19mmW	CF,CS,OVAL,NND,R=F	<b>Galaxy SAB(s)bc:</b>	<b>EF,PS,R,GBM</b>
<b>NGC 5768</b> May 29 2006 31"	<b>Lib</b> 19mmW	<b>H373-3</b> F,PS,OVAL,NND,R=F	<b>Galaxy SA(rs)c:</b>	<b>F,R,BMFN,S*S</b>
<b>NGC 5772</b> Jun 05 2011 31"	<b>Boo</b> 17mmT4	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 5774</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	DIFF,CF,PS,R,UB,NND,R=F	<b>Galaxy SAB(rs)d</b>	<b>PF,PL,R,NP OF 2</b>
<b>NGC 5775</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H554-3</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy SBc? sp</b>	<b>F,PS,VME148,GVLBM</b>
<b>NGC 5777</b> May 23 2012 18"	<b>Dra</b> 11mmT6	<b>H806-3</b> PF,PS,EON,UB,NND,R=F, PA=100	<b>Galaxy Sb</b>	<b>VF,VS,LE</b>
<b>NGC 5781</b> May 29 2006 31"	<b>Lib</b> 19mmW	F,PS,EL,OVAL,NND,R=F	<b>Galaxy (R')SBb pec sp</b>	<b>F,S,R,BM,*16SP</b>
<b>NGC 5791</b> Jul 03 2005 8"	<b>Lib</b> 11mmT6	<b>H691-3</b> VF,VS,EL,NND,AV,R=F	<b>Galaxy E6:</b>	<b>PF,S,R,STELLAR</b>

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<b>NGC 5792</b> Jul 03 2005 8"	<b>Lib</b> 11mmT6	<b>H683-2</b> VF,VS,EON,NND,R=F	<b>Galaxy SB(rs)b</b>	<b>PB,PL,R,MBM,*8,9NP1'</b>
<b>NGC 5793</b> May 29 2006 31"	<b>Lib</b> 19mmW	F,PS,EON,NND,R=F	<b>Galaxy Sb: sp</b>	<b>EF,PS,E,BMN</b>
<b>NGC 5796</b> May 29 2006 31"	<b>Lib</b> 19mmW	PB,S,OVAL,FNUC,R=G	<b>Galaxy E0-1</b>	<b>F,PS*INCENTRE</b>
<b>NGC 5806</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H539-2</b> PF,PS,OVAL,MEXT,FNUC,R=F	<b>Galaxy SAB(s)b</b>	<b>CB,CL,E165,SBMN</b>
<b>NGC 5809</b> Jul 06 2010 12"	<b>Lib</b> 7.5mmW	EF,VS,OVAL,PEXT,UB,NND,AV,R=P	<b>Galaxy S0/a: sp</b>	<b>VF,S,E,GLBM</b>
<b>NGC 5810</b> Jul 06 2010 12"	<b>Lib</b> 7.5mmW	VF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SB(rs)b:</b>	<b>EF,VS,LE230,BET 2VF*</b>
<b>NGC 5812</b> May 18 2014 18" Mar 18 2007 8"	<b>Lib</b> 8mm Ds 11mmT6	<b>H71-1</b> PF,PS,R,FNUC,R=F PF,PS,OVAL,NND,R=F	<b>Galaxy E0</b>	<b>CB,S,R,SVMBM</b>
<b>NGC 5813</b> Apr 09 2008 8"	<b>Vir</b> 11mmT6	<b>H127-1</b> PF,PS,OVAL,FNUC,MSB,R=G	<b>Galaxy E1-2</b>	<b>B,PS,R,PSMBM</b>
<b>NGC 5816</b> May 18 2014 18"	<b>Lib</b> 8mm Ds	PF,PS,OVAL,UB,NND,R=F	<b>Galaxy</b>	<b>F,PS,GBMN,STELLAR</b>
<b>NGC 5817</b> May 18 2014 18"	<b>Lib</b> 8mm Ds	VF,VS,R,UB,NND,AV2,R=P	<b>Galaxy S0</b>	<b>VF,PS</b>
<b>NGC 5824</b> Jun 19 2020 12" Jul 01 2016 12"	<b>Lup</b> 13mmHW 8mm Et	B,S,R=F B,S,R=G, CANNOT RESOLVE STARS	<b>Globular</b>	<b>PB,S,STELL,N</b>
<b>NGC 5831</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H540-2</b> CF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy E3</b>	<b>PB,S,MBM</b>
<b>NGC 5832</b> Sep 02 2016 12"	<b>UMi</b> 8mm Et	<b>H332-2</b> VF,PS,OVAL,AV1,R=P	<b>Galaxy SB(rs)b?</b>	<b>PB,CL,IR,BP,R</b>
<b>NGC 5838</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H542-2</b> PF,PS,EON,FNUC,MUSB,R=F	<b>Galaxy SA0-</b>	<b>PB,PS</b>
<b>NGC 5839</b> May 19 2010 12"	<b>Vir</b> 7.5mmW	<b>H541-2</b> CF,VS,R,FNUC,R=F	<b>Galaxy SAB(rs)0^:</b>	<b>PF,PS</b>

# Observations Listing by Catalog Number

<b>NGC 5846</b>	<b>Vir</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>Vir</b>		<b>Galaxy cE2-3</b>	
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
<b>NGC 5849</b>	<b>Lib</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 5850</b>	<b>Vir</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>Vir</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 5858</b>	<b>Lib</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>Lib</b>	<b>H192-2</b>	<b>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>Lib</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 5864</b>	<b>Vir</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>NGC 5866</b>	<b>Dra</b>	<b>M102 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 - ARGONAVIS		
<b>NGC 5872</b>	<b>Lib</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>Lib</b>	<b>H736-3</b>	<b>Galaxy SA(s)b</b>	<b>PB,PL,PME0,PSMBM</b>
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 5879</b>	<b>Dra</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		

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<b>NGC 5880</b>	<b>Lib</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>Lib</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>Lib</b>	<b>H116-3</b>	<b>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>Lib</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>Lib</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>Lib</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 5894</b>	<b>Dra</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 5897</b>	<b>Lib</b>	<b>H19-6</b>	<b>Globular</b>	<b>GCL,PF,L,VIR,VGBM,</b>
Jun 19 2020 12"	13mmHW	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		
<b>NGC 5898</b>	<b>Lib</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 5899</b>	<b>Boo</b>	<b>H650-2</b>	<b>Galaxy SAB(rs)c</b>	<b>CB,PL,PME,SMBMN</b>
Aug 03 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5903</b>	<b>Lib</b>	<b>H139-3</b>	<b>Galaxy E2</b>	<b>CF,S,R,GPMBM</b>
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		



# Observations Listing by Catalog Number

<b>NGC</b>	<b>5904</b>	<b>Ser</b>	<b>M5</b>	<b>Globular</b>	<b>GCL,VB,L,ECM,*11..15</b>
	Jul 13 2020	12"	13mmHW	B,L,R=E	
	Jun 19 2020	12"	13mmHW	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</b>	<b>5905</b>	<b>Dra</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</b>	<b>5907</b>	<b>Dra</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</b>	<b>5908</b>	<b>Dra</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</b>	<b>5915</b>	<b>Lib</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</b>	<b>5921</b>	<b>Ser</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</b>	<b>5928</b>	<b>Ser</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</b>	<b>5936</b>	<b>Ser</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</b>	<b>5949</b>	<b>Dra</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</b>	<b>5953</b>	<b>Ser</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	

# Observations Listing by Catalog Number

<b>NGC 5954</b> May 30 2011 12"	<b>Ser</b> 7mm TV	<b>H179-2</b> PF,CS,OVAL,PEXT,UB,NND,R=F	<b>Galaxy SAB(rs)cd: pec</b>	<b>PB,CS,F OF D NEB</b>
<b>NGC 5959</b> Jul 06 2010 12"	<b>Lib</b> 7.5mmW	CF,CS,R,UB,NND,R=F	<b>Galaxy E+:</b>	<b>VF,PS,VLE,BMN</b>
<b>NGC 5962</b> Sep 05 2007 8"	<b>Ser</b> 11mmT6	<b>H96-2</b> PF,PS,OVAL,NND,AV,R=F	<b>Galaxy SA(r)c</b>	<b>PF,PL,ILE,GBM</b>
<b>NGC 5963</b> Jul 08 2019 12" Aug 06 2010 12"	<b>Dra</b> 8mm Et 7mm TV	<b>H761-2</b> VF,PS,OVAL,NND,AV,R=P PF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy S pec</b>	<b>PF,PS,IF</b>
<b>NGC 5964</b> May 30 2011 12"	<b>Ser</b> 7mm TV	DIFF,CF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(rs)d</b>	<b>EF,VL,R,VGBM,R</b>
<b>NGC 5965</b> Aug 06 2010 12"	<b>Dra</b> 7mm TV	<b>H762-2</b> CF,CS,EON,UB,NND,R=F	<b>Galaxy Sb</b>	<b>CF,CL,LE</b>
<b>NGC 5970</b> Sep 05 2007 8"	<b>Ser</b> 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 5981</b> Jul 26 2019 12" Aug 15 2015 12"	<b>Dra</b> 8mm Et 8mm Ds	VF,PS,EON,NND,AV3,R=P VF,VS,EON,UB,NND,AV1,R=P	<b>Galaxy Sc? sp</b>	<b>F,ME</b>
<b>NGC 5982</b> Jul 08 2019 12" Jul 01 2019 12" Aug 15 2015 12" Apr 13 2005 8"	<b>Dra</b> 8mm Et 8mm Et 8mm Ds 11mmT6	<b>H764-2</b> VF,VS,R,NND,AV,R=P PF,PS,R,UB,NND,R=F F,PS,OVAL,FNUC,R-F VF,VS,OVAL,NND,R=F	<b>Galaxy E3</b>	<b>CB,S,R,PSBM,R</b>
<b>NGC 5985</b> Jul 08 2019 12" Aug 15 2015 12" Sep 07 2005 8" Apr 13 2005 8"	<b>Dra</b> 8mm Et 8mm Ds 11mmT6 11mmT6	<b>H766-2</b> PF,PS,OVAL,FNUC,R=G DIFF,PF,S,OVAL,UB,NND,R=F MB,ML,EL,OVAL,FNUC,MSB,R=G MB,ML,EL,OVAL,FNUC,R=G	<b>Galaxy SAB(r)b</b>	<b>PB,CL,IE,R</b>
<b>NGC 5986</b> Jun 19 2020 12" Jul 01 2016 12"	<b>Lup</b> 13mmHW 8mm Et	F,S,R=G. CAN RESOLVE STARS. -37 DEGREES LAT. F,S,R=F, FAINT OUTER STARS	<b>Globular</b>	<b>GCL,VB,L,R,VGBM,*13.</b>
<b>NGC 5987</b> Aug 06 2010 12"	<b>Dra</b> 7mm TV	<b>H765-2</b> PF,PS,OVAL,PEXT,FNUC,MSB,R=G	<b>Galaxy Sb</b>	<b>PF,CS</b>
<b>NGC 5989</b> Aug 15 2015 12"	<b>Dra</b> 8mm Ds	<b>H738-3</b> VF,PS,OVAL,UB,NND,R=F	<b>Galaxy Scd?</b>	<b>VF,VS</b>

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<b>NGC 5990</b> May 30 2011 12"	<b>Ser</b> 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"	<b>Ser</b> 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 6000</b> Jun 14 2007 8"	<b>Sco</b> 11mmT6	CF,CS,R,NND,AV,R=F	<b>Galaxy SB(s)bc:</b>	<b>VF,S,R,SBM</b>
<b>NGC 6012</b> May 30 2011 12"	<b>Ser</b> 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 6013</b> May 21 2009 16"	<b>Her</b> 11mmT6	VF,CS,EL,OVAL,NND,AV,R=F	<b>Galaxy SBb</b>	<b>EF,VS,IR,LBM</b>
<b>NGC 6015</b> Jul 01 2019 12" Sep 07 2005 8"	<b>Dra</b> 8mm Et 11mmT6	VF,PS,UB,NND,R=P VF,VS,EL,OVAL,NND,R=F	<b>Galaxy SA(s)cd</b>	<b>VF,PL,R,VGBM</b>
<b>NGC 6028</b> Jul 16 2007 31"	<b>Her</b> 17mmT4	PF,PS,OVAL,NND,R=F	<b>Galaxy (R)SA0+:</b>	<b>VF,PS,NO NUCL</b>
<b>NGC 6030</b> Oct 17 2004 8"	<b>Her</b> 7.5mmW	VF,OVAL,NND,AV,R=F,VSMALL, 14.5MG	<b>Galaxy S0^</b>	<b>PF,VS,R,BM</b>
<b>NGC 6032</b> Jul 16 2007 31"	<b>Her</b> 17mmT4	PF,CS,EON,NND,R=F	<b>Galaxy SB(rs)b:</b>	<b>VF,PL,LE,VLBM,NP OF2</b>
<b>NGC 6035</b> Jul 16 2007 31"	<b>Her</b> 17mmT4	PF,PS,R,NND,R=F	<b>Galaxy SAB(rs)c</b>	<b>VF,PL,LE,SF OF 2</b>
<b>NGC 6043A</b> May 21 2009 16"	<b>Her</b> 11mmT6	CF,PS,R,UB,NND,R=F	<b>Galaxy SB0</b>	
<b>NGC 6048</b> Sep 02 2016 12"	<b>UMi</b> 8mm Et	<b>H873-2</b> PF,PS,OVAL,NND,R=F	<b>Galaxy E</b>	<b>F,R,BM</b>
<b>NGC 6052</b> Sep 19 2014 18"	<b>Her</b> 8mm Ds	VF,PS,OVAL,UB,NND,R=F, WRO - 9/19/14	<b>Non-Existent</b>	<b>F,PL,IR,(=6064)</b>
<b>NGC 6058</b> Nov 13 2007 8"	<b>Her</b> 11mmT6	<b>H637-3</b> VF,VS,AV,R=F, NO CENTRAL STAR	<b>Planetary Neb 3+2</b>	<b>PF,VS,R,STELLAR</b>
<b>NGC 6060</b> Oct 17 2004 8"	<b>Her</b> 7.5mmW	MF,OVAL,FNUC,R=G, 14.3 MAG!	<b>Galaxy SAB(rs)c</b>	<b>EF,E,SBM</b>
<b>NGC 6068</b> Sep 02 2016 12"	<b>UMi</b> 8mm Et	<b>H973-3</b> VF,VS,OVAL,NNDL,AV,R=F	<b>Galaxy SBbc?</b>	<b>VF,VS,LE0,R</b>

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<b>NGC 6070</b>	<b>Ser</b>	<b>H553-3</b>	<b>Galaxy SA(s)cd</b>	<b>F,L,PME,VGBM,R</b>
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
<b>NGC 6079</b>	<b>UMi</b>	<b>H884-3</b>	<b>Galaxy E</b>	<b>VF,VS</b>
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		
<b>NGC 6081</b>	<b>Her</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 6090</b>	<b>Dra</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 6093</b>	<b>Sco</b>	<b>M80</b>	<b>Globular</b>	<b>GCL,VB,L,VMBM(VAR*)</b>
Jun 19 2020 12"	13mmHW	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 6106</b>	<b>Her</b>	<b>H151-2</b>	<b>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 6118</b>	<b>Ser</b>	<b>H402-2</b>	<b>Galaxy SA(s)cd</b>	<b>VF,CL,CE45,R</b>
May 30 2011 12"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
Jul 24 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		

# Observations Listing by Catalog Number

NGC	6121	Sco	M4	Globular	CL,8OR1OB*LINE,RRR
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"	13mmHW	GOOD		
Jun 19 2020	12"	13mmHW	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</b>	<b>6124</b>	<b>Sco</b>		<b>Open Cluster 9.0   3 r</b>	<b>CL,B,L,PRI,LCM,*9.11</b>
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
<b>NGC</b>	<b>6125</b>	<b>Dra</b>	<b>H810-2</b>	<b>Non-Existent</b>	
Jul 08 2019	12"	8mm Et	PF,VS,OVAL,FNUC,R=G		
<b>NGC</b>	<b>6127</b>	<b>Dra</b>		<b>Non-Existent</b>	<b>PF,VS,R</b>
Sep 05 2010	12"	7mm TV	PF,PS,R,FNUC,R=G		
<b>NGC</b>	<b>6139</b>	<b>Sco</b>		<b>Globular</b>	<b>B,PL,R,PSBM,RR</b>
Jun 19 2020	12"	13mmHW	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</b>	<b>6140</b>	<b>Dra</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</b>	<b>6144</b>	<b>Sco</b>	<b>H10-6</b>	<b>Globular</b>	<b>CL,CL,MC,GBM,RRR</b>
Jun 19 2020	12"	13mmHW	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		

# Observations Listing by Catalog Number

<b>NGC 6146</b>	<b>Her</b>	<b>H638-3</b>	<b>Galaxy E?</b>	<b>CF,VS,R,BM</b>
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
<b>NGC 6153</b>	<b>Sco</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 6154</b>	<b>Her</b>	<b>H680-3</b>	<b>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>Her</b>	<b>H690-2</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>Her</b>	<b>H875-2</b>	<b>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 6171</b>	<b>Oph</b>	<b>M107 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 6173</b>	<b>Her</b>	<b>H640-3</b>	<b>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>Her</b>	<b>H753-2</b>	<b>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>Her</b>	<b>H730-3</b>	<b>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 6189</b>	<b>Dra</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>Dra</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 6196</b>	<b>Her</b>		<b>Galaxy SAB0-: pec</b>	<b>VF,VS,STELLAR</b>
Mar 18 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		

# Observations Listing by Catalog Number

NGC	6205	Her	M13	Globular	GCL,EB,VRI,VGECM,*11
	Jun 19 2020	12"	13mmHW	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	
	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.	

NGC	6207	Her	H701-2	Galaxy SA(s)c	PB,PL,E45,VGMBM
	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	

NGC	6210	Her	Planetary Neb 2+3b	PLN,VB,VS,R,DISC
	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

NGC	6211	Dra	Galaxy SB(r)0^ pec:	VF,PS,R,SP OF 2
	Sep 05 2010	12"	7mm TV	PF,PS,OVAL,FNUCC,R=F,PA=95

NGC	6212	Her	Galaxy S?	EF
	Jul 16 2009	16"	17mmT4	PF,PS,OVAL,UB,NND,R=F

NGC	6217	UMi	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	

# Observations Listing by Catalog Number

<b>NGC 6218</b>	<b>Oph</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			
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 6223</b>	<b>Dra</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>Dra</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 6229</b>	<b>Her</b>	<b>H50-4</b>	<b>Globular</b>	<b>GCL,VB,L,R,DISC,R</b>
Jun 19 2020 12"	13mmHW	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 6232</b>	<b>Dra</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 6235</b>	<b>Oph</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 6236</b>	<b>Dra</b>		<b>Galaxy SAB(s)cd</b>	<b>F,PL</b>
Jul 08 2019 12"	8mm Et	VFMOSMIVAKMUB,NND,R=F		
Sep 05 2010 12"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F,PA=45		
<b>NGC 6239</b>	<b>Her</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 6240</b>	<b>Oph</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 6241</b>	<b>Her</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		



# Observations Listing by Catalog Number

<b>NGC 6247</b>	<b>Dra</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 6251</b>	<b>UMi</b>	<b>H974-3</b>	<b>Galaxy E</b>	<b>CF,S,BM,P OF 2</b>
Sep 02 2016 12"	8mm Et	VF,VS,R,NND,R=F		
<b>NGC 6254</b>	<b>Oph</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 6255</b>	<b>Her</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 6256</b>	<b>Sco</b>		<b>Globular</b>	<b>GCL,VF,VL,IR,VGBM</b>
Jun 19 2020 12"	13mmHW	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 6266</b>	<b>Oph</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		
<b>NGC 6269</b>	<b>Her</b>		<b>Galaxy E</b>	<b>F,S,R</b>
May 21 2009 16"	11mmT6	PF,PL,OVAL,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 6273</b>	<b>Oph</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 6278</b>	<b>Her</b>	<b>H124-3</b>	<b>Galaxy S0</b>	<b>VF,STELLAR</b>
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,FNUC,R=F		
<b>NGC 6284</b>	<b>Oph</b>	<b>H11-6</b>	<b>Globular</b>	<b>GCL,B,L,R,CM,ST16...</b>
Jun 19 2020 12"	13mmHW	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>Oph</b>	<b>H195-2</b>	<b>Globular</b>	<b>GCL,CB,L,R,GPMCM,RRR</b>
Jun 19 2020 12"	13mmHW	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>Oph</b>	<b>H12-6</b>	<b>Globular</b>	<b>GCL,VB,L,R,PSBM,ST16</b>
Jun 19 2020 12"	13mmHW	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 6302</b>	<b>Sco</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 6304</b>	<b>Oph</b>	<b>H147-1</b>	<b>Globular</b>	<b>GCL,B,CL,R,LBM,RRR</b>
Jun 19 2020 12"	13mmHW	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 6306</b>	<b>Dra</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		

# Observations Listing by Catalog Number

<b>NGC 6307</b>	<b>Dra</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 6309</b>	<b>Oph</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 6310</b>	<b>Dra</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 6316</b>	<b>Oph</b>	<b>H45-1</b>	<b>Globular</b>	<b>GCL,CB,PS,R,GVMBM</b>
Jun 19 2020 12"	13mmHW	PF,PS,R=F		
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 6324</b>	<b>UMi</b>	<b>H945-3</b>	<b>Galaxy S?</b>	<b>VF,S,E,S*S</b>
Sep 02 2016 12"	8mm Et	VF,VS,OVAL,NND,R=F		
<b>NGC 6325</b>	<b>Oph</b>		<b>Globular</b>	<b>PF,L,R,RR</b>
Jun 19 2020 12"	13mmHW	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>Oph</b>	<b>M9</b>	<b>Globular</b>	<b>GCL,B,L,R,ECM,RRR,</b>
Jun 19 2020 12"	13mmHW	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 6337</b>	<b>Sco</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 6338</b>	<b>Dra</b>	<b>H812-2</b>	<b>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>Dra</b>	<b>H767-2</b>	<b>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		

# Observations Listing by Catalog Number

<b>NGC</b>	<b>6341</b>	<b>Her</b>	<b>M92</b>	<b>Globular</b>	<b>GCL,VB,VL,ECM,ST S</b>
	Jun 19 2020	12"	13mmHW	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</b>	<b>6342</b>	<b>Oph</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</b>	<b>6343</b>	<b>Her</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</b>	<b>6347</b>	<b>Her</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</b>	<b>6350</b>	<b>Her</b>		<b>Galaxy S0</b>	<b>PF,PS,GBM</b>
	May 21 2009	16"	11mmT6	CF,CS,R,UB,NND,R=F	

<b>NGC</b>	<b>6355</b>	<b>Oph</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</b>	<b>6356</b>	<b>Oph</b>	<b>H48-1</b>	<b>Globular</b>	<b>GCL,VB,CL,VGVMBM,RRR</b>
	Jun 19 2020	12"	13mmHW	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.	

# Observations Listing by Catalog Number

<b>NGC 6359</b>	<b>Dra</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>Dra</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 6364</b>	<b>Her</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 6366</b>	<b>Oph</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.		
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>Oph</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>Oph</b>	<b>H11-4</b>	<b>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 6370</b>	<b>Dra</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 6372</b>	<b>Her</b>	<b>H137-3</b>	<b>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 6380</b>	<b>Sco</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 6381</b>	<b>Dra</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 6384</b>	<b>Oph</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 6388</b>	<b>Sco</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 6389</b>	<b>Her</b>	<b>H901-2</b>	<b>Galaxy Sbc</b>	<b>F,S,IF,ER</b>
May 21 2009 16"	11mmT6	CF,PS,OVAL,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 6395</b>	<b>Dra</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		
Sep 05 2010 12"	5.5mmN	VF,CS,EON,UB,NND,AV,R=F,PA=75		
<b>NGC 6401</b>	<b>Oph</b>	<b>H44-1</b>	<b>Globular</b>	<b>PB,PL,R,*12F INV</b>
Jun 19 2020 12"	13mmHW	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>Oph</b>	<b>M14</b>	<b>Globular</b>	<b>GCL,B,VL,R,ERI,VGMBM</b>
Jun 19 2020 12"	13mmHW	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 6405</b>	<b>Sco</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		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 6408</b>	<b>Her</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		
<b>NGC 6411</b>	<b>Dra</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>Dra</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 6417</b>	<b>Her</b>		<b>Galaxy SB(r)b:</b>	<b>PF,S,VLBM</b>
May 21 2009 16"	11mmT6	VF,VS,R,NND,AV,R=F		

# Observations Listing by Catalog Number

<b>NGC 6426</b>	<b>Oph</b>	<b>H587-2</b>	<b>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 6427</b>	<b>Her</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>Her</b>		<b>Galaxy SBa</b>	<b>F,S,STELLAR</b>
May 21 2009 16"	11mmT6	CF,PS,EON,NND,R=F		
<b>NGC 6434</b>	<b>Dra</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 6440</b>	<b>Sgr</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 STARTS. 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 6441</b>	<b>Sco</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 6442</b>	<b>Her</b>		<b>Galaxy E</b>	<b>PF,S,IR,GBM</b>
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,R=F		
<b>NGC 6445</b>	<b>Sgr</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		
Jul 08 2018 12"	17mmT4	B,S,R=G.		
Jul 09 2005 8"	11mmT6	MB,ML,MSB,R=G		
<b>NGC 6447</b>	<b>Her</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 6451</b>	<b>Sco</b>	<b>H13-6</b>	<b>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>Sco</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		

## Observations Listing by Catalog Number

<b>NGC 6454</b>	<b>Dra</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 6458</b>	<b>Her</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>Her</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>Her</b>		<b>Non-Existent</b>	<b>VF,S,R</b>
May 21 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
<b>NGC 6469</b>	<b>Sgr</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 6475</b>	<b>Sco</b>	<b>M7</b>	<b>Open Cluster 7.0   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>Sco</b>		<b>Non-Existent</b>	<b>NEBSPART OFMILKY WAY</b>
Jul 03 2005 8"	11mmT6	VF,VS,R=F		
<b>NGC 6482</b>	<b>Her</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>Her</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>Her</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>Her</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>Her</b>		<b>Galaxy S0-?</b>	<b>VF,VS,STELLAR</b>
May 21 2009 16"	11mmT6	VF,CS,OVAL,NND,AV,R=F		



# Observations Listing by Catalog Number

<b>NGC 6494</b>	<b>Sgr</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"	13mmHW	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 6495</b>	<b>Her</b>		<b>Galaxy E</b>	<b>F,S,R</b>
May 21 2009 16"	11mmT6	PF,PS,R,FNUC,R=F		
<b>NGC 6496</b>	<b>CrA</b>		<b>Globular</b>	<b>NEB+CL,PL,ME,GVLBM</b>
Sep 02 2019 12"	11mmT6	PF,PS,R=G. LAT. -44 DEGREES. 4 DEGREES ABOVE THE HORIZON		
<b>NGC 6500</b>	<b>Her</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>Her</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		
<b>NGC 6503</b>	<b>Dra</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 6504</b>	<b>Her</b>		<b>Galaxy S</b>	<b>F,VME,SBM</b>
May 21 2009 16"	11mmT6	PF,PS,EON,FNUC,MSB,R=F		
<b>NGC 6507</b>	<b>Sgr</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 6508</b>	<b>Dra</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 6509</b>	<b>Oph</b>		<b>Galaxy Sd</b>	<b>VF,PL,IRRR,LBM</b>
Jul 31 2005 8"	11mmT6	VF,VS,OVAL,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC</b>	<b>6514</b>	<b>Sgr</b>	<b>M20</b>	<b>H41-4</b>	<b>Nebula EN+OC</b>	<b>VB,VL,TRIFID,D*INV</b>
	Jul 13 2020	12"	13mmHW	F,L,R=E		
	Jun 24 2020	12"	13mmHW	R=E. LP2 FILTER		
	Jun 19 2020	12"	13mmHW	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</b>	<b>6517</b>	<b>Oph</b>	<b>H199-2</b>	<b>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		
<b>NGC</b>	<b>6520</b>	<b>Sgr</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		
<b>NGC</b>	<b>6521</b>	<b>Dra</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</b>	<b>6522</b>	<b>Sgr</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"	13mmHW	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		

# Observations Listing by Catalog Number

<b>NGC</b>	<b>6523</b>	<b>Sgr</b>	<b>M8</b>	<b>Nebula E</b>	<b>VB,EL,EIF,W/LCL</b>	
	Jun 19 2020	12"	13mmHW	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</b>	<b>6526</b>	<b>Sgr</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</b>	<b>6528</b>	<b>Sgr</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"	13mmHW	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</b>	<b>6530</b>	<b>Sgr</b>	<b>Open Cluster 6.0</b>	<b>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"	32mmUW	B,L,R=E, LP-2 FILTER.		
	Sep 05 2007	8"	11mmT6	PB,PL,SOME NEBULOSITY,R=F		
<b>NGC</b>	<b>6531</b>	<b>Sgr</b>	<b>M21</b>	<b>Open Cluster 8.0</b>	<b>I 3 r</b>	<b>CL,PRI,LC,ST9...12</b>
	Jul 13 2020	12"	13mmHW	B,L,R=E		
	Jun 24 2020	12"	13mmHW	R=E		
	Jun 19 2020	12"	13mmHW	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.		
	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</b>	<b>6535</b>	<b>Ser</b>	<b>Globular</b>	<b>PF,VS,VSNEB*P</b>		
	Jul 01 2019	12"	11mmT6	VF,PS,AV,R=F		
	Jul 09 2005	8"	11mmT6	MF,ML,R=G		

# Observations Listing by Catalog Number

<b>NGC 6537</b>	<b>Sgr</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 6539</b>	<b>Ser</b>		<b>Globular</b>	<b>NO DESCRIPT</b>
Jul 01 2019 12"	11mmT6	PF,S,R=F. LITTLE MORE THAN A SMUDGE.		
Jul 09 2005 8"	11mmT6	VF,ML,R=F		
<b>NGC 6540</b>	<b>Sgr</b>	<b>H198-2</b>	<b>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 6543</b>	<b>Dra</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 6544</b>	<b>Sgr</b>	<b>H197-2</b>	<b>Globular</b>	<b>CF,PL,IR,R</b>
Jul 13 2020 12"	13mmHW	B,L,R=G		
Jun 19 2020 12"	13mmHW	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>Sgr</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 6548</b>	<b>Her</b>	<b>H555-3</b>	<b>Galaxy SB0</b>	<b>CF,S,LE,R</b>
Nov 13 2007 8"	11mmT6	DIFF,PF,PS,R,NND,R=F		
<b>NGC 6553</b>	<b>Sgr</b>	<b>H12-4</b>	<b>Globular</b>	<b>GCL,F,L,LE,VGLBM,RR</b>
Jun 19 2020 12"	13mmHW	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 6555</b>	<b>Her</b>	<b>H902-2</b>	<b>Galaxy SAB(rs)c</b>	<b>F,L,R,VGLBM</b>
Mar 18 2007 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 6558</b>	<b>Sgr</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		

# Observations Listing by Catalog Number

<b>NGC 6563</b> Aug 29 2010 12"	<b>Sgr</b> 7mm TV	<b>Planetary Neb 3a</b> PF,PS,R=F. NO CENTRAL STAR NOTED	<b>PLN,F,L,CE,HAZY EDGE</b>
<b>NGC 6567</b> Sep 05 2007 8"	<b>Sgr</b> 11mmT6	<b>Planetary Neb 2a+3</b> VF,PS,NO CENTRAL STAR,R=F	<b>PLN,STELL,11M,IN ACL</b>
<b>NGC 6568</b> Aug 02 2019 12" Jul 09 2005 8"	<b>Sgr</b> 17mm O 11mmT6	<b>H30-7</b> F,S,R=F MB,R=G. NICE, BRIGHT CLUSTER	<b>Open Cluster IV 1 m</b> <b>CL,VL,LC</b>
<b>NGC 6569</b> Jul 05 2016 12" Jul 15 2006 8" Jun 19 2004 8"	<b>Sgr</b> 8mm Et 19mmW 25mmPL	<b>H201-2</b> F,S,R=F,CAN'T RESOLVE STARS F,CS,R=F GOOD NIGHT - MEGASTAR	<b>Globular</b> <b>GCL,CB,L,R,RRR,*15..</b>
<b>NGC 6570</b> Jul 31 2005 8"	<b>Oph</b> 11mmT6	<b>Galaxy SB(rs)m:</b> MB,VS,EL,FNUC,MSB,R=F	<b>PF,PL,R</b>
<b>NGC 6572</b> Jul 07 2018 12" Jul 23 2006 8" Jul 31 2005 8"	<b>Oph</b> 8mm Et 7.5mmW 11mmT6	<b>Planetary Neb 2a</b> PB,PS,R=E. OIII FILTER CB,CS,R,R=G VB,VS,R,R=F	<b>PLN,VB,VS,R,LHAZY</b>
<b>NGC 6574</b> May 21 2009 16"	<b>Her</b> 11mmT6	<b>Galaxy SAB(rs)bc:</b> PF,CS,OVAL,FNUC,UB,R=F	<b>PB,S,R</b>
<b>NGC 6583</b> Aug 02 2019 12" Jul 23 2006 8" Jul 08 2004 8"	<b>Sgr</b> 17mm O 11mmT6 25mmPL	<b>H31-7</b> F,VS,R=P CF,S,R=F VERY CLEAR NIGHT - LEFT AT 1:00AM	<b>Open Cluster I 2 m</b> <b>CL,PRI,PC,CE,ST13...</b>
<b>NGC 6590</b> Jul 08 2004 8"	<b>Sgr</b> 25mmPL	<b>Nebula R</b> VERY CLEAR NIGHT - LEFT AT 1:00AM	<b>D*CENTRE PF,PL,RNEBY</b>
<b>NGC 6595</b> Aug 02 2019 12" Sep 05 2007 8" Jul 08 2004 8"	<b>Sgr</b> 17mm O 11mmT6 25mmPL	<b>Nebula III 3 m n</b> PF,VS,R=F B,PS,R=F VERY CLEAR NIGHT - LEFT AT 1:00AM	<b>F,PL,CE,**INV</b>
<b>NGC 6596</b> Aug 18 2010 12"	<b>Sgr</b> 11mmT6	<b>H55-8</b> PF,PS,R=F,LOOSE GROUP,NEBULOSITY NOTED IN MIDDLE	<b>Open Cluster II 2 m n</b> <b>CL,LC</b>

# Observations Listing by Catalog Number

<b>NGC 6603</b>	<b>Sgr</b>	<b>M24</b>	<b>Open Cluster 14.0 I 2</b>	<b>CL,VRI,VMC,R,M WAY</b>
Jul 13 2020 12"	13mmHW	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 6604</b>	<b>Ser</b>	<b>H15-8</b>	<b>Open Cluster 7.5 I 3 m n</b>	<b>CL,LRI,LC</b>
Aug 02 2019 12"	7mm TV	F,PS,R=F. 6+ MEMBERS.		
Sep 05 2007 8"	11mmT6	F,S,R=F		
<b>NGC 6605</b>	<b>Ser</b>		<b>Open Cluster asterism</b>	<b>CL,LRI,LC,ST10...12</b>
Aug 02 2019 12"	7mm TV	PF,L,LOOSE,R=F		
Jun 20 2007 1.9"	12x50	PF,PS,R,R=F		
<b>NGC 6606</b>	<b>Lyr</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 6611</b>	<b>Ser</b>	<b>M16</b>	<b>Open Cluster 11.0 II 3 m n</b>	<b>CL,ATLEAST100* L\$S</b>
Jul 13 2020 12"	13mmHW	B,L,R=E		
Aug 02 2019 12"	17mm O	PB,L,R=E. OIII		
Aug 02 2019 12"	17mmT4	OUTSTANDING OBJECT. OIII		
Jul 07 2018 12"	8mm Et	B,L,R=E. OIII FILTER		
Jul 19 2017 12"	17mmT4	LP2 FILTER HELPS A BIT		
Jul 23 2016 12"	8mm Et	USED LP2 & LP3. BETTER VIEW WITH LP3 (OIII).		
Aug 21 2015 12"	17mmT4			
Jul 15 2015 12"	17mmT4			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Sep 13 2009 12"	32mmUW	6TH OBJECT		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50	PB,PL,R=G		
Mar 27 2006 8"	19mmW	L,B,R=G		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
<b>NGC 6612</b>	<b>Lyr</b>		<b>Galaxy C</b>	<b>EEF,ES,R,VDIFFIC</b>
Aug 16 2009 31"	17mmT4	PF,CS,R,FNUC,R=F		
<b>NGC 6613</b>	<b>Sgr</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		

# Observations Listing by Catalog Number

<b>NGC 6618</b>	<b>Sgr</b>	<b>M17</b>	<b>Nebula EN+OC</b>	<b>B,EL,EIF,2HOOKED</b>
Jul 13 2020 12"	13mmHW	B,L,R=E		
Jul 08 2018 12"	17mmT4	B,L,R=E		
Jul 19 2017 12"	17mmT4	BETTER WITH 27 PANOPTIC		
Jul 19 2017 12"	27m PN	BEAUTIFUL WITH LP2 FILTER		
Aug 21 2015 12"	17mmT4			
Jul 13 2013 18"	7mm TV	THE SWAN - OIII FILTER		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Sep 13 2009 12"	32mmUW	7TH OBJECT		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50	PB,PL,R=F		
Mar 27 2006 8"	19mmW	L,B,R=G		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
<b>NGC 6621</b>	<b>Dra</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 6624</b>	<b>Sgr</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 6625</b>	<b>Sct</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 6626</b>	<b>Sgr</b>	<b>M28</b>	<b>Globular</b>	<b>GCL,VB,L,R,GECM,RRR</b>
Jun 19 2020 12"	13mmHW	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 6628</b>	<b>Her</b>		<b>Galaxy S0?</b>	<b>VF,S,LE,BM</b>
Aug 21 2015 12"	17mmT4			
<b>NGC 6629</b>	<b>Sgr</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 6631</b>	<b>Sct</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		

# Observations Listing by Catalog Number

<b>NGC 6633</b>	<b>Oph</b>	<b>H72-8</b>	<b>Open Cluster 8.0 III 2 m</b>	<b>CL,LC,ST L</b>
Jul 02 2017 12"	17mmT4	LOOSE CLUMP		
Oct 08 2006 1.9"	12x50	N.F.:R=G, DENSER GROUP		
Jul 15 2006 8"	32mmUW	VB,VL,LOOSE CLUSTER		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
<b>NGC 6635</b>	<b>Her</b>		<b>Galaxy S0 pec:</b>	<b>VF,S,R</b>
Jun 04 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F		
<b>NGC 6637</b>	<b>Sgr</b>	<b>M69</b>	<b>Globular</b>	<b>GCL,B,L,R,RRR,*14.16</b>
Jun 19 2020 12"	13mmHW	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		
<b>NGC 6638</b>	<b>Sgr</b>	<b>H51-1</b>	<b>Globular</b>	<b>GCL,B,S,R,RR</b>
Jun 19 2020 12"	13mmHW	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 6639</b>	<b>Sct</b>		<b>Open Cluster</b>	<b>CL,IN MILKY WAY</b>
Aug 13 2007 31"	31mmT5	PB,PS,R=F, SOME NEBULOSITY		
<b>NGC 6640</b>	<b>Lyr</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 6642</b>	<b>Sgr</b>	<b>H205-2</b>	<b>Globular</b>	<b>GCL,PB,PL,IR,GPMBM</b>
Jun 19 2020 12"	13mmHW	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 6643</b>	<b>Dra</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 6644</b>	<b>Sgr</b>		<b>Planetary Neb 2</b>	<b>PLN,STELLAR</b>
Sep 05 2007 8"	11mmT6	VF,VS,AV,R=F		



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<b>NGC 6645</b>	<b>Sgr</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 6646</b>	<b>Lyr</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 6647</b>	<b>Sgr</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 6649</b>	<b>Sct</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 6651</b>	<b>Dra</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 6652</b>	<b>Sgr</b>		<b>Globular</b>	<b>B,S,LE,RRR,ST15</b>
Jul 13 2020 12"	13mmHW	F,PS,R=G		
Jun 19 2020 12"	13mmHW	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 6654</b>	<b>Dra</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		
Jul 27 2009 16"	11mmT6	PF,PS,EL,OVAL,NND,R=F		
<b>NGC 6656</b>	<b>Sgr</b>	<b>M22</b>	<b>Globular</b>	<b>GCL,VB,VL,R,VRI,VMC</b>
Jul 13 2020 12"	13mmHW	B,L,R=E		
Jun 19 2020 12"	13mmHW	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 6657</b>	<b>Lyr</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>Lyr</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>Lyr</b>		<b>Galaxy SAB(r)cd:</b>	<b>EEF,PS,R,VDIFFIC</b>
Aug 16 2009 31"	17mmT4	CF,PS,R,NND,R=F		

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<b>NGC 6664</b>	<b>Sct</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 6665</b>	<b>Lyr</b>		<b>Galaxy Sc</b>	<b>VF,VS</b>
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 6667</b>	<b>Dra</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 6671</b>	<b>Lyr</b>		<b>Galaxy S</b>	<b>VF,VS,R,MBM</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 6675</b>	<b>Lyr</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 6677</b>	<b>Dra</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 6681</b>	<b>Sgr</b>	<b>M70</b>	<b>Globular</b>	<b>GCL,B,PL,R,GBM,</b>
Jun 19 2020 12"	13mmHW	F,S,R=G		
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 6682</b>	<b>Sct</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>Sct</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 6685</b>	<b>Lyr</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>Lyr</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>Lyr</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 6689</b>	<b>Dra</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>Dra</b>		<b>Non-Existent</b>	
Jul 27 2009 16"	11mmT6	PF,PS,EON,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 6691</b>	<b>Dra</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 6692</b>	<b>Lyr</b>		<b>Galaxy E/S0</b>	<b>VF,VS,IRRE,SEVV*INV</b>
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 6694</b>	<b>Sct</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 6695</b>	<b>Lyr</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>Lyr</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 6701</b>	<b>Dra</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 6702</b>	<b>Lyr</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>Lyr</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 6704</b>	<b>Sct</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>Sct</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"	13mmHW	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		

## Observations Listing by Catalog Number

<b>NGC 6709</b>	<b>Aql</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 6710</b>	<b>Lyr</b>		<b>Galaxy SA0+?</b>	<b>VF,S,R,BM</b>
Jun 30 2008 16"	17mmT4	PF,PS,OVAL,ND,R=F		
<b>NGC 6712</b>	<b>Sct</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>NGC 6713</b>	<b>Lyr</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 6715</b>	<b>Sgr</b>	<b>M54</b>	<b>Globular</b>	<b>GCL,VB,L,R,G,SMBM,</b>
Jun 19 2020 12"	13mmHW	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>Sgr</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>Sgr</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		

# Observations Listing by Catalog Number

<b>NGC</b>	<b>6720</b>	<b>Lyr</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	
	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</b>	<b>6723</b>	<b>Sgr</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</b>	<b>6724</b>	<b>Aql</b>		<b>Open Cluster 12.0</b>	<b>cluster? 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</b>	<b>6735</b>	<b>Aql</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</b>	<b>6738</b>	<b>Aql</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	
<b>NGC</b>	<b>6740</b>	<b>Lyr</b>		<b>Galaxy S</b>	<b>EEF,S</b>
	Aug 16 2009	31"	17mmT4	CF,CS,R,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>NGC 6741</b>	<b>Aql</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 6742</b>	<b>Dra</b>	<b>H742-3</b>	<b>Planetary Neb 2c</b>	<b>VF,STELLAR</b>
Sep 05 2010 12"	5.5mmN	CF,CS,R=F.	NO CENTRAL STAR NOTED. OIII ADDS NOTHING.	
<b>NGC 6745</b>	<b>Lyr</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 6749</b>	<b>Aql</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 6750</b>	<b>Dra</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 6751</b>	<b>Aql</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>Aql</b>	<b>H19-7</b>	<b>Open Cluster 11.0 II 2 r</b>	<b>CL,VL,VRI,PC,,*12.14</b>
Aug 29 2019 12"	17mm O	NICE COMPACT CLUSTER.	R=G	
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>Aql</b>	<b>H62-7</b>	<b>Open Cluster 13.0 I 1 m</b>	<b>CL,S,RI,LC,*11...12</b>
Aug 29 2019 12"	17mm O	VERY SMALL AND FAINT.	R=F	
Jul 08 2004 8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8		
<b>NGC 6757</b>	<b>Dra</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 6760</b>	<b>Aql</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 6764</b>	<b>Cyg</b>		<b>Galaxy SB(s)bc</b>	<b>PF,PL,ME,SEVVF*INV</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.		

# Observations Listing by Catalog Number

<b>NGC 6765</b> Jun 30 2008 16"	<b>Lyr</b> 11mmT6	<b>Planetary Neb 5</b> VF,PS,R,NO CENTRAL STAR,R=F	<b>F,S,E</b>
<b>NGC 6772</b> Aug 31 2008 31"	<b>Aql</b> 17mmT4	<b>H14-4</b> VF,VS,R,R=P,NO CENTRAL STAR	<b>Planetary Neb 3b+2</b> VF,L,R,VVLBM,R
<b>NGC 6775</b> Aug 18 2010 12"	<b>Aql</b> 11mmT6	<b>Open Cluster cluster?</b> PF,CS,R=P,LOOSE DISTANT GROUP, STARS 8-10	<b>CL,P,LC,ST10...11</b>
<b>NGC 6778</b> Aug 31 2008 31"	<b>Aql</b> 17mmT4	<b>Planetary Neb 3+3</b> PB,PS,R,R=G, NO CENTRAL STAR	<b>S,E,ILL-DEFINED DISC</b>
<b>NGC 6779</b> Jul 19 2017 12" Jun 17 2016 12" Oct 24 2012 8" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Jun 30 2008 16" Oct 08 2006 1.9" Mar 27 2006 8" Dec 26 2003 8"	<b>Lyr</b> 11mmT6 8mm Ds 11mmT6 17mmAT 17mmAT 26mm 26mm 17mmT4 12x50 19mmW 25mmPL	<b>M56</b> F,S,R=G VERY NICE STILL NICE. LIKE THOSE GLOBS. 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 PB,PL,R=G F,S,R=F F,PS,R,R=F,LOOSELY PACKED Q/M COLD	<b>Globular</b> <b>GCL,B,L,IR,GVMCM,RRR</b>
<b>NGC 6781</b> Aug 29 2019 12" Oct 09 2018 12" Aug 07 2016 12" Sep 19 2014 12" Sep 13 2009 12" Oct 06 2004 8"	<b>Aql</b> 11mmT6 11mmT6 8mm Et 11mmT6 32mmUW 11mmT6	<b>H743-3</b> F,S,R=G. RESPONDED BETTER TO OIII. B,L,R=G. NO CENTRAL STAR. LP2 PF,PS,R=G., LP3. LITTLE RING. F,PL,OVAL,R=G, LP-2, 3 STARS INSIDE, HOME - 9/14/14 8TH OBJECT MB,OVAL,HISB,R=G	<b>Planetary Neb 3+3</b> <b>PLN,F,L,R,VSBM DISC</b>
<b>NGC 6783</b> Jul 21 2004 8"	<b>Cyg</b> 25mmPL	<b>Galaxy C</b> SHORT NIGHT - CLOUDS ROLLED IN.	<b>EF,DIFFIC</b>
<b>NGC 6786</b> Sep 05 2010 12"	<b>Dra</b> 5.5mmN	<b>Galaxy SB?</b> CF,PS,OVAL,UB,NND,R=F,PA=85	<b>EEF,S,R,2ST NF</b>
<b>NGC 6789</b> Sep 05 2010 12"	<b>Dra</b> 5.5mmN	<b>Galaxy Im</b> VF,PS,OVAL,UB,NND,AV,R=F,PA=120	<b>EEF,PL,R,VDIFFIC</b>
<b>NGC 6790</b> Aug 29 2019 12" Oct 09 2018 12" Aug 07 2016 12" Jul 03 2005 8"	<b>Aql</b> 11mmT6 11mmT6 8mm Et 11mmT6	<b>Planetary Neb 2</b> F,VS,R=F. LP2 VF,VS,R=F. LP2 PF,VS,R=F. LP3. EYE OF THE EAGLE VF,VS,AV,R=F	<b>PLN,B,ES,STELL=9.5M</b>
<b>NGC 6791</b> Aug 16 2009 31"	<b>Lyr</b> 17mmT4	<b>Open Cluster 15.0 I 2 r</b> PB,PL,R=G,TIGHT GROUP	<b>VF</b>

# Observations Listing by Catalog Number

<b>NGC 6792</b>	<b>Lyr</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>NGC 6793</b>	<b>Vul</b>	<b>H81-8</b>	<b>Open Cluster III 2 p</b>	<b>CL,P,LC</b>
Aug 18 2010 12"	11mmT6	PF,PS,R=F, STARS 10-12		
<b>NGC 6796</b>	<b>Dra</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 6798</b>	<b>Cyg</b>		<b>Galaxy S0</b>	<b>F,VS,R,*VNR</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.		
<b>NGC 6800</b>	<b>Vul</b>	<b>H21-8</b>	<b>Open Cluster 10.0 IV 1 p</b>	<b>CL,VL,PRI,VLC,ST10..</b>
Aug 18 2010 12"	11mmT6	PF,CS,R=P,STARS 8+?		
<b>NGC 6801</b>	<b>Cyg</b>		<b>Galaxy SAcd</b>	<b>EF,PS,R,F*S NR</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.		
<b>NGC 6802</b>	<b>Vul</b>	<b>H14-6</b>	<b>Open Cluster 14.0 I 1 m</b>	<b>CL,L,VC,E0,ST14...18</b>
Jul 23 2006 8"	11mmT6	PF,CS,R=F		
<b>NGC 6803</b>	<b>Aql</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>Aql</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"	32mmUW	9TH OBJECT		
Jul 03 2005 8"	11mmT6	VF,ML,AV,R=F		
<b>NGC 6807</b>	<b>Aql</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 6809</b>	<b>Sgr</b>	<b>M55</b>	<b>Globular</b>	<b>GCL,PB,L,R,VRI,VGBM</b>
Jun 19 2020 12"	13mmHW	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 6811</b>	<b>Cyg</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 6813</b>	<b>Vul</b>		<b>Nebula E</b>	<b>**IN VF,S NEB</b>
Nov 16 2012 18"	11mmT6	6-8 STARS WITH FAINT NEBULA,R=F		



# Observations Listing by Catalog Number

<b>NGC 6814</b>	<b>Aql</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 6818</b>	<b>Sgr</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 6819</b>	<b>Cyg</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 6820</b>	<b>Vul</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 6821</b>	<b>Aql</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 6822</b>	<b>Sgr</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		
<b>NGC 6823</b>	<b>Vul</b>	<b>H18-7</b>	<b>Open Cluster 8.8 I 3 m n</b>	<b>CL,CRI,E,ST11...12</b>
Jul 08 2019 12"	17mmT4	F,S,R=G. IMBEDDED IN NGC-6820		
Jun 20 2007 1.9"	12x50	PF,PS, STARS 6+,R=F		
Jul 23 2006 8"	11mmT6	B,PS,R=F		
<b>NGC 6824</b>	<b>Cyg</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>Cyg</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 6827</b>	<b>Vul</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>Vul</b>	<b>H9-7</b>	<b>Open Cluster 10.0 II 2 p</b>	<b>CL,L,PRI,PC,*11...12</b>
Jul 23 2006 8"	11mmT6	B,PS,R=F		

# Observations Listing by Catalog Number

<b>NGC 6832</b>	<b>Dra</b>		<b>Non-Existent</b>	<b>CL,VL,LC,ST7...</b>
Jul 26 2019 12"	8mm Et	LARGE,LOOSE,R=F		
<b>NGC 6833</b>	<b>Cyg</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>Cyg</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 6835</b>	<b>Sgr</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>Sgr</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 6837</b>	<b>Aql</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 6838</b>	<b>Sge</b>	<b>M71</b>	<b>Globular</b>	<b>CL,VL,VRI,PMC,*11.16</b>
Jun 19 2020 12"	13mmHW	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 6840</b>	<b>Aql</b>	<b>H19-8</b>	<b>Open Cluster 10.0 cluster? 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 6842</b>	<b>Vul</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 6843</b>	<b>Aql</b>		<b>Open Cluster 10.0 cluster? CL,S,P</b>	
Sep 05 2007 8"	11mmT6	PF,PS,R=F		

# Observations Listing by Catalog Number

<b>NGC 6846</b>	<b>Cyg</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 6852</b>	<b>Aql</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 6853</b>	<b>Vul</b>	<b>M27</b>	<b>Planetary Neb 3+2</b>	<b>VB,VL,BIN,IE,DUMBDEL</b>
Jul 26 2020 12"	17mmT4	NV+IR685 FILTER. INVISIBLE NO MATTER WHAT FILTER I USED.		
Jul 17 2020 12"	30mmES	OUTSTANDING		
Jun 24 2020 12"	20mmOP	OUTSTANDING. R=E		
Jun 19 2020 12"	13mmHW	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.		
Aug 21 2015 12"	8mm Ds	LP2 FILTER		
Oct 21 2012 8"	11mmT6	B,L,R=G,SURPRISE UNDER THE STREETLIGHTS		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Sep 13 2009 12"	32mmUW	1ST OBJECT WITH 12" SKYWATCHER & MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Sep 01 2008 31"	17mmT4	VB,CL,R=E. NO CENTRAL STAR		
Aug 12 2006 1.9"	12x50	F,S,R,R=F		
Mar 27 2006 8"	19mmW	B,L,R=G,LONG		
Aug 14 2004 8"	11mmT6			
Dec 26 2003 8"	25mmPL	Q/M COLD		
<b>NGC 6857</b>	<b>Cyg</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 6858</b>	<b>Aql</b>		<b>Open Cluster 10.0 cluster? CL,CL,E,PRI,ST13...</b>	
Aug 18 2010 12"	11mmT6	PF,PS,R=F,LOOSE GROUP, STAR 10-15		
<b>NGC 6864</b>	<b>Sgr</b>	<b>M75</b>	<b>Globular</b>	<b>GCL,B,PL,R,VMBMBN,RR</b>
Jun 19 2020 12"	13mmHW	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>NGC 6865</b>	<b>Aql</b>		<b>Galaxy S0</b>	<b>F,S,E</b>
Aug 31 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 6866</b>	<b>Cyg</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 6869</b>	<b>Dra</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		
<b>NGC 6871</b>	<b>Cyg</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		
<b>NGC 6874</b>	<b>Cyg</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>Cyg</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 6882</b>	<b>Vul</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 6883</b>	<b>Cyg</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>Cyg</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 6885</b>	<b>Vul</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"	13mmHW	F,S,R=F		
Jul 23 2006 8"	11mmT6	PB,PS,R=F		
<b>NGC 6886</b>	<b>Sge</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>NGC 6888</b>	<b>Cyg</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 36"	17mmT4	FINE NEBULA IN CYGNUS, OUTSTANDING OBJECT, OIII FILTER		
Oct 12 2012 18"	17mmT4	FINE OBJECT IN JOHN'S 20" OBSESSION, OIII FILTER		
Jul 24 2006 8"	25mmPL	PF,PL,PATCHEY,R=F		

# Observations Listing by Catalog Number

<b>NGC 6891</b>	<b>Del</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 6894</b>	<b>Cyg</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 6897</b>	<b>Cap</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>Cap</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 6900</b>	<b>Aql</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>Aql</b>		<b>Galaxy SB(r)ab</b>	<b>EF</b>
Aug 31 2008 31"	17mmT4	CF,CS,OVAL,FNUC,R=G		
<b>NGC 6903</b>	<b>Cap</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 6905</b>	<b>Del</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 6906</b>	<b>Aql</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 6907</b>	<b>Cap</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>Cap</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 6910</b>	<b>Cyg</b>	<b>H56-8</b>	<b>Open Cluster 9.6   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 6912</b>	<b>Cap</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		

# Observations Listing by Catalog Number

<b>NGC 6913</b>	<b>Cyg</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>Cyg</b>		<b>Nebula R</b>	<b>VF,VL,IR,DIF,2*ATT P</b>
Jul 24 2006 8"	25mmPL	PF,PS,PATCHY,R=F		
<b>NGC 6914A</b>	<b>Cyg</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>Cyg</b>		<b>Nebula R</b>	
Aug 18 2010 12"	11mmT6	CF,PS,R=P,FAINT HINT OF NEBULOSITY,OIII FILTER STARS 2		
<b>NGC 6915</b>	<b>Aql</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 6916</b>	<b>Cyg</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 6917</b>	<b>Del</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 6921</b>	<b>Vul</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 6922</b>	<b>Aql</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 6924</b>	<b>Cap</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 6926</b>	<b>Aql</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 6927</b>	<b>Del</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		

# Observations Listing by Catalog Number

<b>NGC 6927A</b>	<b>Del</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>Del</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		
<b>NGC 6929</b>	<b>Aql</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 6930</b>	<b>Del</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 6931</b>	<b>Cap</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 6934</b>	<b>Del</b>	<b>H103-1</b>	<b>Globular</b>	<b>GCL,B,L,R,RRR,*16...</b>
Jun 19 2020 12"	13mmHW	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 6936</b>	<b>Cap</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 6939</b>	<b>Cep</b>	<b>H42-6</b>	<b>Open Cluster 11.9 II 1 r</b>	<b>CL,PL,ERI,PCM,*11.16</b>
Jul 17 2020 12"	8mm Et	F,L,R=G. RICH CLUSTER		
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		
<b>NGC 6940</b>	<b>Vul</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 6941</b>	<b>Aql</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>NGC 6944</b>	<b>Del</b>		<b>Galaxy S0-:</b>	<b>PF,S,R</b>
Sep 25 2006 31"	19mmW	PB,,L,OVAL,NND,R=F		

## Observations Listing by Catalog Number

<b>NGC 6944A</b>	<b>Del</b>		<b>Galaxy SB(rs)d pec:</b>	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
<b>NGC 6945</b>	<b>Aqr</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 6946</b>	<b>Cep</b>	<b>H76-4</b>	<b>Galaxy SAB(rs)cd</b>	<b>VF,VL,VG,VSBM,RR</b>
Jul 17 2020 12"	13mmHW	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>Cep</b>		<b>Galaxy S?</b>	<b>EF,PS,IR</b>
Nov 16 2012 18"	5mm TV	VF,VS,R,UB,R=F		
<b>NGC 6950</b>	<b>Del</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 6951</b>	<b>Cep</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>Cep</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 6954</b>	<b>Del</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>Del</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>Del</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>Del</b>		<b>Galaxy Scd?</b>	<b>VF,S,R</b>
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
<b>NGC 6959</b>	<b>Aqr</b>		<b>Galaxy (R)S0^ pec:</b>	<b>VF</b>
Sep 13 2007 31"	17mmT4	PB,PS,EON,UB,FNUC,R=G		



# Observations Listing by Catalog Number

NGC	Catalog	Const	Mag	Obj	Filter	Notes	Obj Type	Other
<b>NGC 6960</b>	<b>Cyg</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"	32mmUW		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 6961</b>	<b>Aqr</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>Aqr</b>	<b>H426-2</b>		<b>Galaxy SAB(r)ab</b>		<b>CF,S,R,BM</b>		
Sep 13 2007	31"	17mmT4		CB,CL,OV,AL,FNUC,MSB,R=G				
<b>NGC 6963</b>	<b>Aqr</b>			<b>Galaxy S0^:</b>		<b>NEB*13M</b>		
Sep 13 2007	31"	17mmT4		PF,PS,OV,AL,NND,R=F				
<b>NGC 6964</b>	<b>Aqr</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,OV,AL,FNUC,MSB,R=G				
<b>NGC 6967</b>	<b>Aqr</b>			<b>Galaxy SB(rs)0+?</b>		<b>EF,VS,*10F50"</b>		
Sep 13 2007	31"	17mmT4		CB,PL,EL,OV,AL,FNUC,MSB,R=G				
<b>NGC 6968</b>	<b>Aqr</b>			<b>Galaxy SA0- pec?</b>		<b>F,S,R,GBM,F*INV</b>		
Sep 13 2007	31"	17mmT4		PB,PS,OV,AL,FNUC,MSB,R=G				
<b>NGC 6969</b>	<b>Del</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>Del</b>			<b>Galaxy Sb</b>		<b>VF,S,R</b>		
Sep 25 2006	31"	19mmW		F,L,EL,OV,AL,NND,R=F				
<b>NGC 6972</b>	<b>Del</b>			<b>Galaxy S0/a</b>		<b>F,S,R</b>		
Sep 25 2006	31"	19mmW		B,L,EL,OV,AL,FNUC,R=G				
<b>NGC 6974</b>	<b>Cyg</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 6975</b>	<b>Aqr</b>			<b>Galaxy S?</b>		<b>VF,S,(=6976)</b>		
Sep 13 2007	31"	17mmT4		CF,PL,EON,NND,R=F				

# Observations Listing by Catalog Number

<b>NGC 6976</b>	<b>Aqr</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>Aqr</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>Aqr</b>		<b>Galaxy Sb</b>	<b>VF</b>
Sep 13 2007 31"	17mmT4	CB,PL,EON,FNUC,MSB,R=G		
<b>NGC 6979</b>	<b>Cyg</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 6981</b>	<b>Aqr</b>	<b>M72</b>	<b>Globular</b>	<b>GCL,PB,PL,R,GMCM,RRR</b>
Jun 19 2020 12"	13mmHW	PF,S,R=F		
Aug 29 2019 12"	11mmT6	PF,S,R=G		
Sep 13 2009 12"	32mmUW	2ND OBJECT.		
Oct 08 2006 1.9"	12x50	VF,S,R=F		
Oct 06 2004 8"	11mmT6	PB,L,R=G,TIGHT GROUP		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
<b>NGC 6986</b>	<b>Cap</b>		<b>Galaxy SB0-?</b>	<b>VF,VS,R,GLBMN</b>
Sep 28 2008 31"	17mmT4	F,S,OVAL,FNUC,R=F		
<b>NGC 6988</b>	<b>Del</b>		<b>Galaxy</b>	<b>EF,PL,R</b>
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F		
<b>NGC 6991</b>	<b>Cyg</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>Cyg</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"	32mmUW	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 6994</b>	<b>Aqr</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 STARTS.		
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		

# Observations Listing by Catalog Number

<b>NGC 6995</b>	<b>Cyg</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	
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>Cyg</b>		<b>Open Cluster 11.0 III 2 m n CL,P,LC</b>	
Aug 18 2010 12"	11mmT6		F,S,R=F,NICE GROUPING, STARS 20+	
<b>NGC 6997</b>	<b>Cyg</b>	<b>H58-8</b>	<b>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>Cyg</b>	<b>H37-5</b>	<b>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"	32mmUW		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 7001</b>	<b>Aqr</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 7003</b>	<b>Del</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>Del</b>	<b>H52-1</b>	<b>Globular</b>	<b>B,PL,R,GBM</b>
Jun 19 2020 12"	13mmHW		PF,PS,R=F	
Aug 29 2019 12"	11mmT6		PF,S,R=G	
Oct 21 2006 31"	20mmUW		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 7008</b>	<b>Cyg</b>	<b>H192-1</b>	<b>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	

# Observations Listing by Catalog Number

<b>NGC 7009</b>	<b>Aqr</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>Aqr</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 7013</b>	<b>Cyg</b>	<b>H203-2</b>	<b>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 7016</b>	<b>Cap</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>Cap</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>Cap</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>Cap</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 7023</b>	<b>Cep</b>	<b>H74-4</b>	<b>Nebula R</b>	<b>*7IN EF,EL,NEBY</b>
Jul 17 2020 12"	13mmHW	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 7024</b>	<b>Cyg</b>	<b>H57-8</b>	<b>Non-Existent</b>	<b>CL,P,LC,ST10...</b>
Jul 27 2009 16"	11mmT6	PF,PS,R=F, SMALL GROUP		
<b>NGC 7025</b>	<b>Del</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>NGC 7026</b>	<b>Cyg</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>Cyg</b>		<b>Planetary Neb 3a</b>	<b>PLN,STELLAR=8.5M</b>
Jul 08 2019 12"	11mmT6	B,PS,R=G. OIII		
Aug 24 2005 8"	7.5mmW	VB,VS,R,R=F		

# Observations Listing by Catalog Number

<b>NGC 7029</b> Aug 07 2016 12"	<b>Ind</b> 8mm Et		<b>Galaxy E6:</b> PB,PS,R=E. LP3. NO CENTRAL STAR NOTED.	<b>B,CS,R,PGMBM</b>
<b>NGC 7030</b> Sep 28 2008 31"	<b>Cap</b> 17mmT4	PF,S,OVAL,UB,NND,R=F	<b>Galaxy (R')SB(r)ab pec</b>	<b>VF,VS,IR,BMN</b>
<b>NGC 7031</b> Jul 24 2006 8"	<b>Cyg</b> 11mmT6	<b>H74-8</b> CF,CS,R=F	<b>Open Cluster 11.3 III 2 m</b>	<b>CL OF TRIP ST,LC</b>
<b>NGC 7035</b> Sep 28 2008 31"	<b>Cap</b> 17mmT4	VF,VS,OVAL,NND,AV,R=P	<b>Galaxy SAB(s)0:</b>	<b>EF,S,IR</b>
<b>NGC 7035A</b> Sep 28 2008 31"	<b>Cap</b> 17mmT4	VF,VS,OVAL,NND,AV,R=F	<b>Galaxy L</b>	
<b>NGC 7039</b> Jun 26 2004 8"	<b>Cyg</b> 25mmPL	CLOUDS EARLY - GIBBOUS MOON	<b>Open Cluster 11.3 IV 2 m</b>	<b>CL,VL,PRI,E,ST,10...</b>
<b>NGC 7042</b> Sep 24 2016 12" Aug 21 2015 12" Oct 06 2004 8"	<b>Peg</b> 8mm Et 8mm Ds 7.5mmW	<b>H209-3</b> F,S,OVAL,MEXT,UB,NND,R=F VF,OVAL,FNUC,R=G	<b>Galaxy Sb</b>	<b>VF,S,R</b>
<b>NGC 7044</b> Jul 23 2006 8"	<b>Cyg</b> 19mmW	<b>H24-6</b> B,S,R=F	<b>Open Cluster 15.0 I 1 r</b>	<b>CL,VF,PL,VRI,VC</b>
<b>NGC 7046</b> Sep 19 2014 18"	<b>Equ</b> 8mm Ds	<b>H858-3</b> VF,PS,OVAL,UB,NND,R=F, WRO - 9/19/14	<b>Galaxy SB(rs)cd</b>	<b>EF,PL,R,LBM</b>
<b>NGC 7047</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PB,PL,EL,OVAL,UB,FNUC,R=G	<b>Galaxy SAB(r)b:</b>	<b>EF,VS,BIN PF</b>
<b>NGC 7048</b> Aug 24 2005 8"	<b>Cyg</b> 7.5mmW	VF,ML,PATCHY,AV,R=F	<b>Planetary Neb 3b</b>	<b>PF,PL,DIF,IR,VLBM</b>
<b>NGC 7051</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy SB(r)a pec</b>	<b>VF,R,GBM,**NR</b>
<b>NGC 7052</b> Sep 01 2011 31" Sep 01 2008 31"	<b>Vul</b> 17mmT4 17mmT4	<b>H145-3</b> PB,PS,OVAL,PEXT,FNUC,R=G PF,S,EL,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>F,S,VLE,R</b>
<b>NGC 7053</b> Sep 01 2011 12" Oct 07 2010 12"	<b>Peg</b> 17mmT4 7mm TV	PF,PS,R,FNUC,R=G VF,VS,OVAL,UB,NND,R=F,PA=80	<b>Galaxy S?</b>	<b>PB,S,VLE</b>
<b>NGC 7056</b> Oct 18 2009 12"	<b>Peg</b> 11mmT6	VF,VS,R,UB,NND,AV,R=F	<b>Galaxy SBb</b>	<b>PF,S,R</b>

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<b>NGC 7062</b> Jul 23 2006 8"	<b>Cyg</b> 19mmW	<b>H51-7</b> PB,PS,R=F	<b>Open Cluster 10.1 II 2 m</b>	<b>CL,PS,PRI,PC,ST13...</b>
<b>NGC 7063</b> Oct 08 2006 1.9" Jul 24 2006 8"	<b>Cyg</b> 12x50 11mmT6	<b>F,S,R=F</b> <b>CF,S,R=F</b>	<b>Open Cluster 8.9 III 1 p</b>	<b>CL,P,ST10...</b>
<b>NGC 7065</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>CF,PS,R,NND,AV,R=F</b>	<b>Galaxy SB(r)ab?</b>	<b>VF,SBM,</b>
<b>NGC 7065A</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>PF,PL,R,PATCHY,NND,R=F</b>	<b>Galaxy SAB(r)c pec?</b>	
<b>NGC 7066</b> Sep 13 2007 31"	<b>Peg</b> 17mmT4	<b>PB,PS,R,BNUC,HISB,R=G</b>	<b>Galaxy S?</b>	<b>EEF,CLOSE SF OF 3F*</b>
<b>NGC 7067</b> Jul 24 2006 8"	<b>Cyg</b> 11mmT6	<b>H50-7</b> <b>CF,VS,R=F</b>	<b>Open Cluster 11.2 II 1 p</b>	<b>CL,P,(NEB)</b>
<b>NGC 7068</b> Sep 27 2013 18"	<b>Peg</b> 7mm TV	<b>PF,PS,OVAL,MEXT,UB,NND,R=F</b>	<b>Galaxy Sc</b>	<b>VF,CLOSE TO A S*</b>
<b>NGC 7069</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>PB,PS,OVAL,UB,FNUC,R=G</b>	<b>Galaxy SAB(s)0-?</b>	<b>VF,S,R,STELL</b>
<b>NGC 7071</b> Aug 24 2005 8"	<b>Cyg</b> 11mmT6	<b>R=P, DISAPPOINTING</b>	<b>Non-Existent</b>	<b>CL,S,C,CE</b>
<b>NGC 7073</b> Sep 28 2008 31"	<b>Cap</b> 17mmT4	<b>VF,S,R,NND,R=F</b>	<b>Galaxy Sa/b</b>	<b>VF,VS,IR</b>
<b>NGC 7074</b> Sep 27 2013 18"	<b>Peg</b> 7mm TV	<b>VF,VS,EON,UB,NND,R=F</b>	<b>Galaxy C</b>	<b>VF,S,E</b>
<b>NGC 7077</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>PB,PS,OVAL,FNUC,MSB,R=G</b>	<b>Galaxy S0- pec?</b>	<b>F</b>

# Observations Listing by Catalog Number

NGC	7078	Peg	M15	Globular	GCL,VB,VL,IR,VSMBM
	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"	32mmUW	5TH OBJECT	
	Oct 29 2008	16"	32mmUW	NICE, BRIGHT, CAN'T RESOLVE INDIVIDUAL STARS	
	Oct 21 2006	31"	20mmUW	VB,VL,STELLAR,RESOLVABLE, F.L. 2, 20MM	
	Aug 20 2006	1.9"	12x50	B,S,R=F	
	Mar 27 2006	8"	19mmW	B,S,R=G, TIGHT GROUP	
	Oct 31 2004	1.9"	12x50	R=G	
	Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
	Dec 28 2003	8"	25mmPL	Q/M COLD	
<b>NGC</b>	<b>7080</b>	<b>Vul</b>		<b>Galaxy SB(r)b</b>	<b>VF,S,VLE</b>
	Sep 01 2008	31"	17mmT4	PF,S,R,FNUC,R=F	
<b>NGC</b>	<b>7081</b>	<b>Aqr</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</b>	<b>7082</b>	<b>Cyg</b>	<b>H52-7</b>	<b>Open Cluster 9.9 IV 2 p</b>	<b>CL,L,CRI,LC,ST10..13</b>
	Nov 13 2007	8"	11mmT6	PF,PS,R=F	
	Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC</b>	<b>7086</b>	<b>Cyg</b>	<b>H32-6</b>	<b>Open Cluster 10.2 II 2 m</b>	<b>CL,CL,VRI,PC,*11..16</b>
	Jul 23 2006	8"	19mmW	PB,PS,R=F	
<b>NGC</b>	<b>7089</b>	<b>Aqr</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"	32mmUW	SAME,DIMMER, CAN'T RESOLVE INDIVIDUAL STARS	
	Oct 21 2006	31"	20mmUW	VB,FL,STELLAR, RESOLVABLE	
	Mar 27 2006	8"	19mmW	B,S,R=G, TIGHT GROUP	
	Oct 31 2004	1.9"	12x50	R=F	
	Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	

# Observations Listing by Catalog Number

<b>NGC 7092</b>	<b>Cyg M39</b>	<b>Open Cluster 7.0 III 2 m</b>	<b>CL,VL,VP,VLC,*7...10</b>
Jul 13 2020 12"	13mmHW B,L,R=G		
Jul 19 2017 12"	17mmT4 LARGER THAN M29		
Jul 01 2016 12"	35mm A B,S,R=G		
Aug 21 2015 12"	17mmT4		
Mar 16 2012 18"	17mmAT 2012 M.M.		
Mar 01 2011 12"	17mmAT M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50 B,S,R=F		
Mar 27 2006 8"	19mmW S,LOOSE,R=F		
Jun 19 2004 8"	25mmPL GOOD NIGHT - MEGASTAR		
<b>NGC 7094</b>	<b>Peg</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 7099</b>	<b>Cap 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 7102</b>	<b>Peg</b>	<b>Galaxy SB(rs)b?</b>	<b>F,PL,R</b>
Jul 27 2009 16"	11mmT6 VF,PS,OVAL,NND,AV,R=F		
<b>NGC 7103</b>	<b>Cap</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>Cap</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 7108</b>	<b>Aqr</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 7116</b>	<b>Cyg</b>	<b>Galaxy S?</b>	<b>VF,PL,ME</b>
Jul 21 2004 8"	25mmPL SHORT NIGHT - CLOUDS ROLLED IN.		
<b>NGC 7120</b>	<b>Aqr</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>Aqr</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 7127</b>	<b>Cyg</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>Cyg H40-7</b>	<b>Open Cluster 11.5 I 3 m</b>	<b>CL,S,PRI,HASARUBY*9</b>
Jul 23 2006 8"	19mmW PF,CS,R=F,SMUDGE, NO STARS		



# Observations Listing by Catalog Number

<b>NGC 7129</b>	<b>Cep</b>	<b>H75-4</b>	<b>Nebula IV 2 p n</b>	<b>CF,PL,GBM***</b>
Jul 17 2020 12"	13mmHW	F,S,R=F.	LP2 NEBULA JUST DETECTED	
Nov 13 2007 8"	19mmW	PF,CS,LOOSE CLUSTER,	HINT OF NEBULOSITY,R=F	
<b>NGC 7131</b>	<b>Cap</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>NGC 7137</b>	<b>Peg</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 7139</b>	<b>Cep</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>Cep</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"	13mmHW	F,S,R=F		
Nov 03 2004 8"	11mmT6			
<b>NGC 7148</b>	<b>Peg</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>Peg</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>Peg</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 7160</b>	<b>Cep</b>	<b>H67-8</b>	<b>Open Cluster 7.0 I 3 p</b>	<b>CL,P,VLC</b>
Jul 17 2020 12"	13mmHW	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 7164</b>	<b>Aqr</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>Aqr</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>Aqr</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		
<b>NGC 7170</b>	<b>Aqr</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		

# Observations Listing by Catalog Number

<b>NGC 7171</b> Oct 05 2005 31"	<b>Aqr</b> 17mmT4	<b>H692-3</b> F,PL,EL,OVAL,NND,R=F	<b>Galaxy SB(rs)b</b>	<b>VF,CL,E124,VGBM</b>
<b>NGC 7177</b> Sep 24 2016 12" Sep 01 2011 31" Jul 21 2004 8"	<b>Peg</b> 8mm Et 17mmT4 25mmPL	<b>H247-2</b> PF,PS,OVAL,UB,NND,R=G PB,PS,OVAL,PEXT,BNUC,R=G SHORT NIGHT - CLOUDS ROLLED IN.	<b>Galaxy SAB(r)b</b>	<b>PB,PS,R,BMN,R,*SP</b>
<b>NGC 7180</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>H693-3</b> PB,PS,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy S0^?</b>	<b>VF,S,R,LBM,P OF 2</b>
<b>NGC 7181</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PF,PS,R,UB,NND,R=F	<b>Galaxy S0^ pec:</b>	<b>EF,VS,STELLAR</b>
<b>NGC 7182</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SB(rs)0+:</b>	<b>EF,VS,STELLAR</b>
<b>NGC 7183</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>H595-2</b> PB,PL,EON,UB,FNUC,R=G	<b>Galaxy S0+ pec sp</b>	<b>VF,PL,E90,LBM</b>
<b>NGC 7184</b> Sep 13 2007 31" Aug 21 2004 8"	<b>Aqr</b> 17mmT4 11mmT6	<b>H1-2</b> PB,CL,EON,FNUC,HISB,R=G CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Galaxy SB(r)c</b>	<b>PB,PL,ME64,BET3*,ER</b>
<b>NGC 7185</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy SAB(rs)0- pec?</b>	<b>VF,PL,IR,VGLBM,F OF2</b>
<b>NGC 7188</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PF,PL,EL,OVAL,NND,R=G	<b>Galaxy (R')SB(rs)bc</b>	<b>EF,PS,E,LBM</b>
<b>NGC 7189</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PB,PS,OVAL,UB,NND,R=G	<b>Galaxy SB(rs)b pec:</b>	<b>F,S,LE</b>
<b>NGC 7194</b> Aug 17 2012 18"	<b>Peg</b> 7mm TV	F,S,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>VF,VS,R,LBM</b>
<b>NGC 7197</b> Aug 24 2012 18"	<b>Lac</b> 5mm TV	<b>H599-2</b> PF,VS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy Sa</b>	<b>F,CS,CE,VGLBM,ER</b>
<b>NGC 7198</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	PB,PS,OVAL,BNUC,HISB,R=G	<b>Galaxy S0 pec</b>	<b>EF,VS,STELLAR</b>
<b>NGC 7206</b> Oct 23 2008 31"	<b>Peg</b> 17mmT4	CF,CS,OVAL,UB,FNUC,R=F	<b>Galaxy S0:</b>	<b>F,S,LE,BM</b>
<b>NGC 7207</b> Oct 23 2008 31"	<b>Peg</b> 17mmT4	CF,S,EL,OVAL,UB,NND,R=F	<b>Galaxy</b>	<b>VF,S</b>

# Observations Listing by Catalog Number

<b>NGC 7209</b>	<b>Lac</b>	<b>H53-7</b>	<b>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 7211</b>	<b>Aqr</b>		<b>Galaxy S0</b>	<b>EF,S,STELLAR</b>
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,BNC,HISB,R=G		
<b>NGC 7212</b>	<b>Peg</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 7215</b>	<b>Aqr</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 7217</b>	<b>Peg</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 7218</b>	<b>Aqr</b>	<b>H897-2</b>	<b>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>Aqr</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		
<b>NGC 7222</b>	<b>Aqr</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 7223</b>	<b>Lac</b>	<b>H862-3</b>	<b>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 7224</b>	<b>Peg</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 7226</b>	<b>Cep</b>		<b>Open Cluster 10.8 I 2 m</b>	<b>PB,L,IN CLUSTER</b>
Jul 17 2020 12"	13mmHW	PF,PS,R=P		
Oct 18 2009 12"	11mmT6	PF,PS,,R=F. RESOLVE OUTER STARTS		
<b>NGC 7227</b>	<b>Lac</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>Lac</b>	<b>H606-2</b>	<b>Galaxy SBa</b>	<b>EF,S,ER</b>
Aug 24 2012 18"	5mm TV	PF,VS,EON,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 7235</b>	<b>Cep</b>		<b>Open Cluster 8.8 II 3 m</b>	<b>CL,PC,HAS RUBY*10</b>
Jul 17 2020 12"	13mmHW	F,S,R=G.	COMPACT	
Jul 21 2007 1.9"	12x50	B,PS,R=F		
<b>NGC 7236</b>	<b>Peg</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>Peg</b>		<b>Galaxy SA0-</b>	<b>VF,S,STELLAR</b>
Oct 23 2008 31"	17mmT4	F,S,R,UB,NND,R=F		
<b>NGC 7241</b>	<b>Peg</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 7242</b>	<b>Lac</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>Lac</b>	<b>H75-8</b>	<b>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		
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.		
<b>NGC 7244</b>	<b>Peg</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 7245</b>	<b>Lac</b>	<b>H29-6</b>	<b>Open Cluster 12.8 II 2 m</b>	<b>CL,C,ST ES</b>
Nov 13 2007 8"	11mmT6	PF,VVS,R=P		
<b>NGC 7247</b>	<b>Aqr</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 7248</b>	<b>Lac</b>	<b>H863-3</b>	<b>Galaxy SA0-:</b>	<b>VF,VS,MBM</b>
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,FNUC,R=F,		
<b>NGC 7250</b>	<b>Lac</b>	<b>H864-3</b>	<b>Galaxy Sdm?</b>	<b>VF,S,ME165</b>
Aug 24 2012 18"	5mm TV	VF,VS,OVAL,MEXT,UB,NND,AV2,R=F,	STAR AT NE TIP	
<b>NGC 7251</b>	<b>Aqr</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>Aqr</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 7253A</b>	<b>Peg</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>Peg</b>		<b>Galaxy S?</b>	
Oct 23 2008 31"	17mmT4	F,CS,EON,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 7256</b>	<b>Aqr</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>Aqr</b>		<b>Galaxy</b>	<b>EF,PS,IR</b>
Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F		
<b>NGC 7261</b>	<b>Cep</b>		<b>Open Cluster 9.6 II 3 m</b>	<b>CL,L,PRI,LC</b>
Jul 17 2020 12"	13mmHW	F,S,R=G. LITTLE LARGER THAN NGC-7235		
Oct 18 2009 12"	11mmT6	PB,PS,R=G. RESOLVE AROUND 20+ STARS		
<b>NGC 7265</b>	<b>Lac</b>		<b>Galaxy S0-</b>	<b>F,VS,R,MBM</b>
Sep 14 2012 18"	7mm TV	PF,PS,OVAL,FNUC,R=F		
<b>NGC 7266</b>	<b>Aqr</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 7270</b>	<b>Peg</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>Peg</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>Peg</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>Peg</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>Peg</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>Peg</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 7284</b>	<b>Aqr</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>Aqr</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 7286</b>	<b>Peg</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 7288</b>	<b>Aqr</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		

## Observations Listing by Catalog Number

<b>NGC 7290</b>	<b>Peg</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>Peg</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>Peg</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		
<b>NGC 7293</b>	<b>Aqr</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 7296</b>	<b>Lac</b>	<b>H41-7</b>	<b>Open Cluster 10.0 II 2 p</b>	<b>CL,IR,LC,ST VS</b>
Jul 24 2006 8"	11mmT6	PF,CS,R=F		
<b>NGC 7300</b>	<b>Aqr</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>Aqr</b>	<b>H31-4</b>	<b>Galaxy SA(s)0-:</b>	<b>F,PS,R,VSBMSN</b>
Sep 12 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F,PA=165		
<b>NGC 7303</b>	<b>Peg</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>Peg</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>Peg</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 7309</b>	<b>Aqr</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 7311</b>	<b>Peg</b>	<b>H428-2</b>	<b>Galaxy Sab</b>	<b>PF,S,R,PSBM,R</b>
Oct 18 2009 12"	11mmT6	VF,VS,OVAL,NND,AV		
Aug 12 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F		
<b>NGC 7312</b>	<b>Peg</b>		<b>Galaxy SB(s)b</b>	<b>F,S</b>
Oct 23 2008 31"	17mmT4	F,CS,EL,OVAL,UB,R=F		

# Observations Listing by Catalog Number

<b>NGC 7315</b>	<b>Peg</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>Peg</b>	<b>H180-3</b>	<b>Galaxy S</b>	<b>F,S,R,*8SP</b>
Sep 14 2012 36"	17mmT4	F,PS,OVAL,EXT,FNUC,R=G,FAINT STAR AT SW CORNER.		
Oct 23 2008 31"	17mmT4	DIFF,F,CS,OVAL,UB,NND,R=F		
<b>NGC 7317</b>	<b>Peg</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>Peg</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>Peg</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		
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>Peg</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		

# Observations Listing by Catalog Number

<b>NGC 7320</b>	<b>Peg</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>Peg</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>Peg</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>Peg</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>Peg</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>Peg</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>Peg</b>		<b>Galaxy Sab</b>	<b>EF,PS,LE90,VGLBM</b>
Oct 23 2008 31"	17mmT4		F,CS,EON,NND,R=F	
<b>NGC 7330</b>	<b>Lac</b>		<b>Galaxy E</b>	<b>PB,S,LE,BM</b>
Sep 14 2012 18"	7mm TV		PF,PS,R,UB,NND,R=F	
<b>NGC 7331</b>	<b>Peg</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 APERATURE OR DARK ENOUGH SKIES.	
Oct 07 2010 12"	17mmAT		F,PS,EON,BNUC,HSB,R=G,PA=10	
Sep 13 2009 12"	32mmUW		3RD OBJECT	
Jul 23 2006 8"	11mmT6		PB,PL,EON,FNUC,R=G	
Jul 16 2004 31"	20mmUW		9.5 PHOTO MAG. BRIGHTER YET.	
Jul 16 2004 8"	25mmPL		9.5 PHOTO MAG. BRIGHT	



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<b>NGC 7332</b>	<b>Peg</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"	20mmUW	VB,PL,EON,VBNUC,R=G,PAIR W/N7339		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
<b>NGC 7335</b>	<b>Peg</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 7336</b>	<b>Peg</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 7337</b>	<b>Peg</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 7339</b>	<b>Peg</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"	20mmUW	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 7340</b>	<b>Peg</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 7341</b>	<b>Aqr</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		
<b>NGC 7342</b>	<b>Peg</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>Peg</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 7344</b>	<b>Aqr</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 7347</b>	<b>Peg</b>		<b>Galaxy S?</b>	<b>EF,PL,E</b>
Sep 06 2013 18"	7mm TV	PF,PS,EON,UB,NND,R=F		

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<b>NGC 7351</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>Galaxy SAB0^:</b> PB,PS,EL,OVAL,FNUC,MSB,R=G	<b>PF,PS,R,BM,R</b>
<b>NGC 7353</b> Aug 17 2012 18"	<b>Peg</b> 7mm TV	<b>Galaxy Sbc</b> F,EON,UB,NND,AV2,R=G	<b>EF</b>
<b>NGC 7354</b> Jul 17 2020 12" Sep 07 2005 8"	<b>Cep</b> 8mm Et 11mmT6	<b>H705-2</b> F,VS,R=F. LP2 DID NOT SEE CENTRAL STAR MB,ML,R,MSB,R=G	<b>Planetary Neb 4+3b</b> <b>PLN,B,S,R,PGVLBM</b>
<b>NGC 7356</b> Nov 02 2010 31"	<b>Peg</b> 17mmT4	<b>Galaxy Sbc</b> PF,PS,OVAL,MEXT,FNUC,R=G	<b>EF,PS,R,GLBM,*ATT</b>
<b>NGC 7357</b> Nov 02 2010 31"	<b>Peg</b> 17mmT4	<b>Galaxy Sb</b> PF,PS,OVAL,MEXT,FNUC,R=F,STAR AT NE TIP	<b>VF,VS,VF*INV</b>
<b>NGC 7359</b> Oct 09 2007 8"	<b>Aqr</b> 11mmT6	<b>Galaxy S0^: sp</b> VF,VS,EL,OVAL,NND,AV,R=F	<b>PF,VS,PME,BMN</b>
<b>NGC 7360</b> Sep 06 2013 18"	<b>Peg</b> 7mm TV	<b>Galaxy S?</b> PF,PS,OVAL,UB,NND,R=F	<b>EF,VS</b>
<b>NGC 7362</b> Aug 12 2005 8"	<b>Peg</b> 11mmT6	<b>Galaxy E:</b> VF,VS,R,NND,AV,R=F	<b>VF,S,R,LBM</b>
<b>NGC 7364</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>H442-2</b> PB,PS,OVAL,FNUC,MSB,R=G	<b>Galaxy S0/a pec:</b> <b>F,S,R,PSBM</b>
<b>NGC 7365</b> Oct 31 2010 12"	<b>Aqr</b> 5.5mmN	<b>Galaxy SA(rs)0-:</b> PF,VS,OVAL,UB,NND,R=F	<b>VF,ES,R,GBMN,*11NF4'</b>
<b>NGC 7370</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	<b>Galaxy</b> VF,VS,OVAL,NND,R=F	<b>EF,VS</b>
<b>NGC 7371</b> Sep 05 2007 8"	<b>Aqr</b> 11mmT6	<b>H477-2</b> PF,VS,R,NND,R=F	<b>Galaxy (R)SA(r)0/a:</b> <b>VF,PL,R,LBM</b>
<b>NGC 7372</b> Sep 27 2013 18"	<b>Peg</b> 7mm TV	<b>Galaxy S?</b> PF,PS,R,UB,NND,R=F	<b>F,S,IR</b>
<b>NGC 7373</b> Sep 27 2013 18"	<b>Peg</b> 7mm TV	<b>Galaxy SAB(s)0^?</b> VF,PS,R,UB,NND,R=F	<b>F,VS,BM,STELLAR</b>
<b>NGC 7374</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	<b>Galaxy S?</b> CF,CS,OVAL,FNUC,R=F,PAIRED W/PGC-69675	<b>VF,PL,R</b>
<b>NGC 7375</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	<b>Galaxy S(r)0</b> CF,CS,OVAL,FNUC,R=F	<b>EF,VS,R</b>

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<b>NGC 7377</b> Nov 09 2004 8"	<b>Aqr</b> 11mmT6	<b>H598-2</b> VF,EL,EON,NND,AV,R=F	<b>Galaxy SA(s)0+</b>	<b>PB,S,VLE,VGMBM,*12P</b>
<b>NGC 7380</b> Jul 17 2020 12" Jul 24 2006 8" Aug 21 2004 8"	<b>Cep</b> 13mmHW 11mmT6 11mmT6	<b>H77-8</b> F,L,R=G. NEBULA JUST DETECTED PB,CS,R=F CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Open Cluster 10.0 III 2 m n</b>	<b>CL,PL,PRI,LC,*9...13</b>
<b>NGC 7383</b> Sep 12 2010 12"	<b>Peg</b> 5.5mmN	<b>H216-3</b> VF,CS,R,UB,NND,AV,R=F	<b>Galaxy SB0</b>	<b>VF,VS,R,7385NF</b>
<b>NGC 7385</b> Aug 12 2005 8"	<b>Peg</b> 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"	<b>Peg</b> 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"	<b>Peg</b> 8.8 ES	<b>H217-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy S0-:</b>	<b>EF,VS,R,2*11S</b>
<b>NGC 7389</b> Sep 27 2013 18"	<b>Peg</b> 8.8 ES	<b>H217-3</b> PF,PS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy SB0</b>	<b>VF,R</b>
<b>NGC 7391</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>H443-2</b> PB,PL,OVAL,FNUC,HISB,R=G	<b>Galaxy E:</b>	<b>CF,CS,R,SBM*13,*NP</b>
<b>NGC 7392</b> Oct 09 2007 8"	<b>Aqr</b> 11mmT6	<b>H702-2</b> VF,PS,OVAL,NND,R=F	<b>Galaxy SA(s)bc</b>	<b>PB,PS,LE120,MBM</b>
<b>NGC 7393</b> Sep 13 2007 31"	<b>Aqr</b> 17mmT4	<b>H453-2</b> PF,PS,EON,UB,NND,R=F	<b>Galaxy SB(rs)c pec</b>	<b>VF,PL,LE,VGBM,R</b>
<b>NGC 7407</b> Sep 12 2010 12"	<b>Peg</b> 5.5mmN	<b>H453-2</b> VF,PS,OVAL,MEXT,UB,NND,AV,R=P,PA=110	<b>Galaxy Sbc</b>	<b>EF,VS</b>
<b>NGC 7409</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	<b>H453-2</b> CF,PS,OVAL,UB,NND,R=F	<b>Galaxy E</b>	<b>EF</b>
<b>NGC 7411</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	<b>H453-2</b> CF,CS,OVAL,FNUC,R=G	<b>Galaxy E:</b>	<b>VF,VS</b>
<b>NGC 7415</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	<b>H453-2</b> PF,PS,OVAL,UB,NND,R=F,PAIRED W/PGC-69984	<b>Galaxy Sab</b>	<b>EF</b>
<b>NGC 7416</b> Sep 12 2010 12"	<b>Aqr</b> 5.5mmN	<b>H453-2</b> CF,CS,EON,UB,NND,R=F,PA=170	<b>Galaxy SB(r)b</b>	<b>F,PL,PME,VGBM</b>

# Observations Listing by Catalog Number

<b>NGC 7419</b>	<b>Cep</b>	<b>H43-7</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,PRI,CC</b>
Jul 17 2020 12"	13mmHW	F,L,R=F		
Nov 13 2007 8"	11mmT6	VF,VS,FAINT SMUDGE,R=F		
<b>NGC 7426</b>	<b>Lac</b>	<b>H576-3</b>	<b>Galaxy E</b>	<b>VF,CS,R,STELLAR,D*P</b>
Aug 24 2012 18"	5mm TV	VF,PS,R,UB,NND,AV3,R=P		
<b>NGC 7427</b>	<b>Peg</b>		<b>Galaxy Compact</b>	<b>F,S,*9SF4'</b>
Nov 03 2013 36"	17mmT4	CF,PS,R,UB,NND,R=F		
<b>NGC 7430</b>	<b>Peg</b>		<b>Galaxy S</b>	<b>EF,VS</b>
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,FNUC,R=F		
<b>NGC 7432</b>	<b>Peg</b>	<b>H465-3</b>	<b>Galaxy E</b>	<b>EF,S,R</b>
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,UB,NND,R=G		
<b>NGC 7433</b>	<b>Peg</b>		<b>Galaxy S0/a</b>	<b>EF,VS,P 7436</b>
Aug 24 2012 18"	5mm TV	PF,VS,EON,FNUC,R=F		
<b>NGC 7435</b>	<b>Peg</b>		<b>Galaxy SB(s)a</b>	<b>EF,S OF 7436</b>
Aug 24 2012 18"	5mm TV	PF,VS,EON,UB,NND,R=F		
<b>NGC 7436</b>	<b>Peg</b>	<b>H243-3</b>	<b>Galaxy E</b>	<b>F,PS,F*ATT P,GBM</b>
Aug 24 2012 18"	5mm TV	DIFF,PF,PS,R,UB,NND,R=F		
Aug 25 2009 16"	11mmT6	DIFF,CF,PS,R,NND,R=F		
<b>NGC 7437</b>	<b>Peg</b>		<b>Galaxy SAB(rs)d</b>	<b>EEF,L,R,F*NRNF,</b>
Nov 03 2013 36"	17mmT4	DIFF,CF,PS,R,UB,NND,R=F		
<b>NGC 7439</b>	<b>Peg</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>Peg</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 7443</b>	<b>Aqr</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>Aqr</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 7448</b>	<b>Peg</b>	<b>H251-2</b>	<b>Galaxy SA(rs)bc</b>	<b>PB,L,E173,VGBM,*F2'</b>
Sep 24 2016 12"	8mm Et	F,S,OVAL,FNUC,R=G		
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		

# Observations Listing by Catalog Number

<b>NGC 7449</b> Aug 25 2009 16"	<b>And</b> 11mmT6	VF,CS,EON,NND,AV,R=F	<b>Galaxy E:</b>	<b>VF,S,R,VS*INCENTRE</b>
<b>NGC 7451</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	VF,CS,EON,NND,AV,R=F	<b>Galaxy SBbc</b>	<b>PF,PL,*10,11SP2'</b>
<b>NGC 7454</b> Aug 02 2019 12" Aug 21 2004 8"	<b>Peg</b> 7mm TV 11mmT6	<b>H249-2</b> PF,PS,OVAL,NND,R=F ****13.6 PHOTO MAGNITUDE****	<b>Galaxy E4</b>	<b>F,CS,LE,LBM,*11P1'</b>
<b>NGC 7457</b> Sep 24 2016 12" Oct 15 2006 31" Sep 19 2004 8"	<b>Peg</b> 8mm Et 19mmW 7.5mmW	<b>H212-2</b> F,S,OVAL,MEXT,UB,NND,R=G F,L,OVAL,NND,R=F F,EL,UB,NND,R=G	<b>Galaxy SA(rs)0-?</b>	<b>CB,CL,LE,GMBM,R,2S*N</b>
<b>NGC 7458</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	<b>H590-2</b> PF,PS,R,FNUC,R=G, WRO - 9/19/14	<b>Galaxy E</b>	<b>CF,CS,PSBM</b>
<b>NGC 7461</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	VF,CS,R,NND,AV,R=F	<b>Galaxy SB0</b>	<b>VF,VS,ALMSTELLAR</b>
<b>NGC 7463</b> Sep 10 2015 12" Oct 26 2014 12" Nov 02 2010 31" Oct 15 2006 31"	<b>Peg</b> 8mm Ds 8mm Ds 17mmT4 19mmW	<b>H210-3</b> PF,PS,OVAL,PEXT,UB,NND,R=F VF,PS,EON,UB,NND,AVII,R=F PF,S,EON,UB,HSB,R=G PF,PL,EON,NND,R=F	<b>Galaxy SABb: pec</b>	<b>VF,S,LE,P OF 2</b>
<b>NGC 7464</b> Aug 02 2019 12" Sep 10 2015 12" Nov 02 2010 31" Oct 15 2006 31"	<b>Peg</b> 7mm TV 8mm Ds 17mmT4 19mmW	VF,PS,EON,UB,NND,AV1,R=P VF,PS,R,UB,NND,R=F PF,PS,R,NND,USB,R=F PF,CS,R,NND,R=F	<b>Galaxy E1 pec:</b>	<b>VF,VS,E,SF7463</b>
<b>NGC 7465</b> Aug 02 2019 12" Sep 10 2015 12" Oct 26 2014 12" Nov 02 2010 31" Oct 15 2006 31"	<b>Peg</b> 7mm TV 8mm Ds 8mm Ds 17mmT4 19mmW	<b>H211-3</b> PF,PS,OVAL,FNUC,R=G PF,PS,OVAL,UB,NND,R=F PF,PS,OVAL,UB,NND,R=F F,S,R,BNUC,R=G B,PL,OVAL,FNUC,R=G	<b>Galaxy (R')SB(s)0^:</b>	<b>VF,VS,FOF 2</b>
<b>NGC 7466</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	B,PL,EON,FNUC,R=G	<b>Galaxy Sb</b>	<b>EF,ES,BM</b>
<b>NGC 7467</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	VF,CS,R,NND,AV,R=F	<b>Galaxy E/S0</b>	<b>EF,VS</b>
<b>NGC 7468</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	<b>H202-3</b> PB,L,EL,OVAL,FNUC,R=G	<b>Galaxy E3: pec</b>	<b>EF,VS</b>

# Observations Listing by Catalog Number

<b>NGC 7469</b>	<b>Peg</b>	<b>H230-3</b>	<b>Galaxy (R')SAB(rs)a</b>	<b>VF,VS,VSMBM *12</b>
Oct 05 2016 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Sep 19 2004 8"	7.5mmW	B,OVAL,NUC,R=G		
<b>NGC 7473</b>	<b>Peg</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>Peg</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>Peg</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>Peg</b>	<b>H55-1</b>	<b>Galaxy SB(s)c</b>	<b>PB,CL,ME12,BET2ST</b>
Sep 24 2016 12"	8mm Et	F,S,R,UB,NND,R=F		
Sep 19 2004 8"	7.5mmW	VF,EL,NND,R=F		
<b>NGC 7485</b>	<b>Peg</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>Peg</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>Peg</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>Peg</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 7492</b>	<b>Aqr</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 7495</b>	<b>Peg</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>Peg</b>	<b>H203-3</b>	<b>Galaxy SB(s)d</b>	<b>VF,L,PME45,LBM</b>
Aug 02 2019 12"	7mm TV	VF,PS,OVAL,MEXT,UB,AV1,R=P		
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>Peg</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>Peg</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 7506</b>	<b>Psc</b>	<b>H184-3</b>	<b>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		

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<b>NGC 7507</b> Aug 25 2011 12"	<b>ScI</b> 7mm TV	<b>H2-2</b> PF,PS,R,FNUC,R=G,	<b>Galaxy E0</b> LAST OBJECT FOR HERSCHEL 400 II LIST.	<b>PB,CS,R,PSVMBM,*10NP</b>
<b>NGC 7508</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	CF,CS,EON,NND,R=F	<b>Galaxy S</b>	<b>EF,BM*,*11NP2'</b>
<b>NGC 7509</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	PF,S,R,NND,R=F	<b>Galaxy C</b>	<b>VF,S,R,BET2*</b>
<b>NGC 7510</b> Jul 17 2020 12" Mar 04 2006 8"	<b>Cep</b> 13mmHW 19mmW	<b>H44-7</b> F,S,R=G, B,S,R=G	<b>Open Cluster 10.0 II 3 r n</b> STAR BAR RUNS NW TO SE. SAME FOV AS KING-19	<b>CL,PRI,PC,FAN-SH,B*P</b>
<b>NGC 7511</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	PB,S,OVAL,FNUC,R=G	<b>Galaxy S?</b>	<b>EEF,S,R,SEV*NF,</b>
<b>NGC 7512</b> Sep 04 2005 8"	<b>Peg</b> 11mmT6	VF,VS,NND,LSB,R=F	<b>Galaxy E</b>	<b>F,S,R,VS*IN CENTRE</b>
<b>NGC 7513</b> Aug 25 2011 12"	<b>ScI</b> 7mm TV	PF,PS,OVAL,MEXT,FNUC,R=G	<b>Galaxy (R')SB(s)b pec</b>	<b>VF,PL,E,GBM</b>
<b>NGC 7514</b> Sep 04 2005 8"	<b>Peg</b> 11mmT6	VF,VS,NND,AV,R=F	<b>Galaxy S?</b>	<b>EF,PL,IR</b>
<b>NGC 7515</b> Sep 04 2005 8"	<b>Peg</b> 11mmT6	<b>H220-3</b> VF,VS,R,NND,AV,R=F	<b>Galaxy S?</b>	<b>F,CS,R,VGLBM,R</b>
<b>NGC 7516</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	PF,PS,OVAL,NND,R=F	<b>Galaxy S0</b>	<b>F,VS,STELLAR</b>
<b>NGC 7519</b> Oct 15 2006 31"	<b>Peg</b> 19mmW	VF,PS,OVAL,NND,AV,R=F	<b>Galaxy Sb:</b>	<b>VF,PL</b>
<b>NGC 7527</b> Nov 02 2010 31"	<b>Peg</b> 17mmT4	PF,CS,OVAL,UB,HSB,R=F	<b>Galaxy E</b>	<b>VF,VS,STELLAR</b>
<b>NGC 7528</b> Oct 30 2005 31"	<b>Peg</b> 17mmT4	MF,MS,OVAL,NND,R=F	<b>Galaxy</b>	<b>F,S</b>
<b>NGC 7537</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	<b>H429-2</b> PF,PS,EON,NND,R=F	<b>Galaxy SAbc:</b>	<b>VF,CS,R,BM,SP OF 2</b>
<b>NGC 7538</b> Nov 28 2010 12"	<b>Cep</b> 11mmT6	<b>H706-2</b> PF,PS,R=F,HINT OF NEBULOSITY, OIII FILTER	<b>Nebula E</b>	<b>VF,L,2PB*INV</b>
<b>NGC 7539</b> Sep 04 2005 8"	<b>Peg</b> 7.5mmW	VF,VS,R,NND,AV,R=F	<b>Galaxy S0</b>	<b>F,S,R,PSBM</b>

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<b>NGC 7541</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	<b>H430-2</b> PB,PS,EON,UB,NND,R=F	<b>Galaxy SB(rs)bc: pec</b>	<b>B,L,ME97,MBM,NF OF 2</b>
<b>NGC 7543</b> Dec 13 2012 18"	<b>Peg</b> 7mm TV	PF,PS,OVAL,UB,NND,R=F	<b>Galaxy S?</b>	<b>VF,S,R,LBM</b>
<b>NGC 7546</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	VF,VS,OVAL,UB,NND,AV1,R=P, WRO - 9/19/14	<b>Galaxy SAB(r)bc:</b>	<b>EF,S,LE</b>
<b>NGC 7547</b> Sep 10 2015 12" Dec 13 2012 18"	<b>Peg</b> 7mm TV 7mm TV	VF,VS,R,UB,NND,AV,R=F PF,PS,OVAL,UB,NND,R=F	<b>Galaxy (R')SAB(s)0/a p</b>	<b>VF,S,IR</b>
<b>NGC 7548</b> Nov 02 2010 31"	<b>Peg</b> 17mmT4	PF,VS,R,FNUC,R=F	<b>Galaxy (R)SAB(r)0^:</b>	<b>VF,VS,*16P11S</b>
<b>NGC 7549</b> Sep 10 2015 12" Sep 09 2010 12"	<b>Peg</b> 7mm TV 5.5mmN	PF,PS,OVAL,PEXT,UB,NND,R=F VF,CS,EON,NND,AV,=P,PA=45	<b>Galaxy SB(s)cd pec</b>	<b>PF,PS,R,*10,11P</b>
<b>NGC 7550</b> Sep 10 2015 12" Aug 25 2009 16" Aug 12 2005 8"	<b>Peg</b> 7mm TV 11mmT6 11mmT6	PF,PS,R,UB,NND,R=F CF,CS,R,UB,NND,R=F VF,VS,R,NND,AV,R=F	<b>Galaxy SA0-</b>	<b>CF,S,R</b>
<b>NGC 7553</b> Sep 10 2015 12" Oct 30 2005 31"	<b>Peg</b> 7mm TV 17mmT4	VF,VS,R,UB,NND,AV1,R=P VF,VS,OVAL,NND,AV,R=F	<b>Non-Existent</b>	
<b>NGC 7556</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	PF,PS,OVAL,FNUC,R=G, WRO - 9/19/14	<b>Galaxy S0-</b>	<b>CF,PL,R,B** F</b>
<b>NGC 7559</b> Dec 13 2012 18"	<b>Peg</b> 7mm TV	VF,PS,OVAL,UB,NND,AV1,R=F	<b>Non-Existent</b>	
<b>NGC 7562</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	PF,PS,OVAL,FNUC,R=F	<b>Galaxy E2-3</b>	<b>CB,PS,IR,PSBM</b>
<b>NGC 7563</b> Sep 04 2005 8"	<b>Peg</b> 7.5mmW	VF,OVAL,NND,AV,R=F	<b>Galaxy SBa</b>	<b>PF,CS,R,SBM*16,SFOF2</b>
<b>NGC 7566</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	VF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14	<b>Galaxy (R')SB(rs)a pec</b>	<b>VF,PS,E,ER,3F*INV</b>
<b>NGC 7568</b> Dec 13 2012 18"	<b>Peg</b> 7mm TV	PF,PS,OVAL,UB,NND,R=F	<b>Galaxy S?</b>	<b>EF,PL,IR,SEV ST INV</b>
<b>NGC 7570</b> Sep 09 2010 12"	<b>Peg</b> 5.5mmN	VF,CS,OVAL,PEXT,NND,AV,R=F,PA=90	<b>Galaxy SBa</b>	<b>EF,ES</b>



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<b>NGC 7578A</b>	<b>Peg</b>		<b>Galaxy S0^ 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>Peg</b>		<b>Galaxy E1:</b>	
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F,PAIRED W/NGC-7578A		
<b>NGC 7585</b>	<b>Aqr</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 7588</b>	<b>Peg</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>Peg</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>Peg</b>		<b>Galaxy</b>	<b>F,STELLAR</b>
Oct 30 2005 31"	17mmT4	MF,MS,OVAL,NND,R=F		
<b>NGC 7596</b>	<b>Aqr</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 7597</b>	<b>Peg</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>Peg</b>		<b>Galaxy E</b>	<b>EF,ES,STELLAR</b>
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 7600</b>	<b>Aqr</b>	<b>H431-2</b>	<b>Galaxy S0- sp</b>	<b>CF,S,R,PSMBM</b>
Nov 13 2007 8"	11mmT6	PF,PS,R,NND,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
<b>NGC 7601</b>	<b>Peg</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>Peg</b>		<b>Galaxy S?</b>	<b>EF,ES,STELLAR</b>
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 7606</b>	<b>Aqr</b>	<b>H104-1</b>	<b>Galaxy SA(s)b</b>	<b>PF,CL,PME0</b>
Oct 06 2004 8"	11mmT6	MB,EL,EON,NND,R=G		
<b>NGC 7608</b>	<b>Peg</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>Peg</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>Peg</b>		<b>Galaxy Scd:</b>	<b>F,S,DIF</b>
Oct 18 2009 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		

# Observations Listing by Catalog Number

<b>NGC 7611</b>	<b>Psc</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 7612</b>	<b>Peg</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>Peg</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>Peg</b>	<b>H439-2</b>	<b>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>Peg</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>Peg</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>Peg</b>	<b>H435-3</b>	<b>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>Peg</b>		<b>Galaxy Scd:</b>	<b>VF,LEORIR,DIF,VLBM</b>
Oct 30 2005 31"	17mmT4	MB,ML,OVAL,NND,MSB,R=G		
<b>NGC 7625</b>	<b>Peg</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>Peg</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>Peg</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		

# Observations Listing by Catalog Number

<b>NGC 7630</b>	<b>Peg</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>Peg</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>Peg</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 7635</b>	<b>Cas</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 7640</b>	<b>And</b>	<b>H600-2</b>	<b>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 7641</b>	<b>Peg</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>Peg</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>Peg</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>Peg</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>Peg</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>Peg</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>Peg</b>		<b>Galaxy cD</b>	<b>EF,S,R</b>
Oct 25 2006 31"	17mmT4	PF,L,OVAL,NND,R=F		
<b>NGC 7653</b>	<b>Peg</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		

# Observations Listing by Catalog Number

<b>NGC 7654</b>	<b>Cas M52</b>	<b>Open Cluster 11.0 II 2 r</b>	<b>CL,L,RI,MCM,R,*9..13</b>
Jul 13 2020 12"	13mmHW	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"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006 1.9"	12x50	B,L,R=G	
Mar 19 2006 8"	25mmPL	PB,FL,R,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	
<b>NGC 7660</b>	<b>Peg</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 7662</b>	<b>And H18-4</b>	<b>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 7664</b>	<b>Peg</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>Peg 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>Peg</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>Peg</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>Peg</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>Peg 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	

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<b>NGC 7679</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	VF,VS,R,NND,AV,R=F	<b>Galaxy SB0 pec:</b>	<b>PB,S,R,MBMN,STELL</b>
<b>NGC 7680</b> Sep 04 2005 8"	<b>Peg</b> 7.5mmW	<b>H860-3</b> VF,VS,R,FNUC,AV,R=F	<b>Galaxy S0-:</b>	<b>VF,S,R,LBM,R</b>
<b>NGC 7685</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	<b>H426-3</b> VF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14	<b>Galaxy SAB(s)c:</b>	<b>EF,CL,R,GBM,**NR</b>
<b>NGC 7686</b> Oct 06 2004 8"	<b>And</b> 11mmT6	<b>H69-8</b> EB,OVAL,HISB,R=G	<b>Open Cluster 7.0 III 2 p</b>	<b>CL,P,LC,*7...11</b>
<b>NGC 7691</b> Aug 24 2012 18"	<b>Peg</b> 5mm TV	<b>H213-3</b> PF,PS,OVAL,UB,NND,R=F	<b>Galaxy SAB(rs)bc</b>	<b>EF,PL,TRI W/2*10</b>
<b>NGC 7694</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	<b>H187-3</b> PF,PS,OVAL,VEXT,FNUC,R=G, WRO - 9/19/14	<b>Galaxy Im pec:</b>	<b>EF,PL,STELLAR</b>
<b>NGC 7701</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	<b>H188-3</b> PF,VS,OVAL,UB,NND,R=F, WRO - 9/19/14	<b>Galaxy</b>	<b>VF,S,R,MBM,*11SP</b>
<b>NGC 7708</b> Oct 24 2012 8"	<b>Cep</b> 11mmT6	<b>H62-8</b> LARGE AND LOOSE,R=F	<b>Open Cluster 7.3 asteris</b>	<b>CL,L,P,LC,*8,10...15</b>
<b>NGC 7711</b> Sep 09 2010 12"	<b>Peg</b> 5.5mmN	<b>H244-2</b> PF,PS,OVAL,PEXT,FNUC,R=F,PA=170	<b>Galaxy S0</b>	<b>F,S,R,PSBM,STELLAR</b>
<b>NGC 7712</b> Sep 09 2010 12"	<b>Peg</b> 5.5mmN	CF,VS,OVAL,UB,NND,R=F,PA=10	<b>Galaxy E?</b>	<b>VF</b>
<b>NGC 7716</b> Oct 09 2007 8"	<b>Psc</b> 11mmT6	CF,PS,R,ND,AV,R=F	<b>Galaxy SAB(r)b:</b>	<b>F,PL,LE,GBM,*10S</b>
<b>NGC 7720</b> Sep 12 2004 8"	<b>Peg</b> 11mmT6	<b>H146-3</b> F,EL,OVAL,NND,AV,F 13.9 (P) MAG.	<b>Galaxy E+ pec:</b>	<b>F,S,LE,BM,AM ST</b>
<b>NGC 7721</b> Nov 09 2004 8"	<b>Aqr</b> 11mmT6	<b>H432-2</b> VF,EL,EON,NND,AV,R=F	<b>Galaxy SA(s)c</b>	<b>PF,CL,E12,VGBM</b>
<b>NGC 7722</b> Sep 09 2010 12"	<b>Peg</b> 5.5mmN	PF,PS,OVAL,MEXT,FNUC,R=G,PA=40	<b>Galaxy S0/a</b>	<b>PB,PL,R,MBM</b>
<b>NGC 7723</b> Oct 06 2004 8"	<b>Aqr</b> 11mmT6	<b>H110-1</b> MB,OVAL,NND,R=G	<b>Galaxy SB(r)b</b>	<b>CB,CL,E,GMBM,R</b>
<b>NGC 7726</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	DIFF,,PF,CS,OVAL,MEXT,NND,R=F	<b>Galaxy SB(s)b</b>	<b>EEF,PS,R,VDIFFIC</b>

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<b>NGC 7727</b> Oct 06 2004 8"	<b>Aqr</b> 11mmT6	<b>H111-1</b> MB,OVAL,FNUC,R=G	<b>Galaxy SAB(s)a pec</b>	<b>PB,PL,IR,MBM</b>
<b>NGC 7728</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	CFR,CS,OVAL,MEXT,FNUC,R=G	<b>Galaxy E</b>	<b>VF,VS,LE,*10SP</b>
<b>NGC 7729</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	CF,PS,EON,UB,NND,R=F,PA=7	<b>Galaxy Sa</b>	<b>VF,S,IE,F*INV S</b>
<b>NGC 7735</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	CF,CS,OVAL,MEXT,UB,NND,R=F	<b>Galaxy E</b>	<b>VF,S,VLE,*13NF VNR</b>
<b>NGC 7737</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	CF,PS,OVAL,MEXT,FNUC,R=G	<b>Galaxy S0/a</b>	<b>VF,S,MBMN</b>
<b>NGC 7741</b> Aug 24 2019 12" Sep 12 2004 8" Aug 21 2004 8"	<b>Peg</b> 8mm Et 11mmT6 11mmT6	<b>H208-2</b> DIGFGF,PF,S,OVAL,UB,NND,R=F B,S,EL,OVAL,FNUC,HISB,G CLEAR SKIES - H.H. LITE. 1ST REAL TEST	<b>Galaxy SB(s)cd</b>	<b>CF,CL,IR,D*10,12NP2'</b>
<b>NGC 7742</b> Aug 24 2019 12" Sep 19 2004 8"	<b>Peg</b> 8mm Et 7.5mmW	<b>H255-2</b> F,S,R,FNUC,R=G B,EL,OVAL,NND,R=G	<b>Galaxy SA(r)b</b>	<b>CB,CS,GMBM,*12F72"</b>
<b>NGC 7743</b> Aug 24 2019 12" Sep 19 2004 8"	<b>Peg</b> 8mm Et 7.5mmW	<b>H256-2</b> F,PS,R,FNUC,R=G F,EL,OVAL,NND,R=G	<b>Galaxy (R)SB(s)0+</b>	<b>PF,S,R,*14SF</b>
<b>NGC 7747</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	PF,PS,OVAL,FNUC,R=F	<b>Galaxy (R')SB(s)b</b>	<b>VF,VS,IR</b>
<b>NGC 7750</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	<b>H427-3</b> PF,PS,OVAL,PEXT,UB,NND,R=F	<b>Galaxy (R')SB(rs)c pec</b>	<b>CF,PL,VLE0,LBM,*11SF</b>
<b>NGC 7751</b> Sep 19 2014 18"	<b>Psc</b> 8mm Ds	<b>H437-3</b> VF,VS,R,UB,NND,R=F, WRO - 9/19/14	<b>Galaxy S?</b>	<b>F,S,R,GBM,ER</b>
<b>NGC 7752</b> Nov 03 2013 36"	<b>Peg</b> 17mmT4	CF,CS,OVAL,MEXT,FNUC,R=F	<b>Galaxy I0:</b>	<b>F,S,LE,P 7753</b>
<b>NGC 7753</b> Sep 05 2010 12"	<b>Peg</b> 7mm TV	<b>H213-2</b> CF,PS,OVAL,UB,NND,R=F,PA=100	<b>Galaxy SAB(rs)bc</b>	<b>CF,CL,VLE,VGLBM,R</b>
<b>NGC 7762</b> Jul 17 2020 12" Nov 13 2007 8"	<b>Cep</b> 13mmHW 11mmT6	<b>H55-7</b> F,PS,R=F PF,PS,FAINT,R=F	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PRI,PC,*11...15</b>
<b>NGC 7768</b> Sep 12 2004 8"	<b>Peg</b> 11mmT6	F,EL,OVAL,NND,AV,F 14.0 (P) MAG.	<b>Galaxy E</b>	<b>VF,S,E,*INV,*P VNR</b>

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<b>NGC 7769</b>	<b>Peg</b>	<b>H230-2</b>	<b>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		
<b>NGC 7770</b>	<b>Peg</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>Peg</b>	<b>H231-2</b>	<b>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>Peg</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 7778</b>	<b>Psc</b>	<b>H231-3</b>	<b>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>Psc</b>	<b>H232-3</b>	<b>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>Psc</b>	<b>H233-3</b>	<b>Galaxy SA(s)b</b>	<b>PF,PL,LE,GLBM,4THOF4</b>
Oct 26 2014 12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F		
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14		
<b>NGC 7785</b>	<b>Psc</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 7786</b>	<b>Peg</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 7788</b>	<b>Cas</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		

# Observations Listing by Catalog Number

<b>NGC 7789</b>	<b>Cas</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"	13mmHW	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		
<b>NGC 7790</b>	<b>Cas</b>	<b>H56-7</b>	<b>Open Cluster 10.0 II 2 m</b>	<b>CL,PRI,PC</b>
Sep 15 2004 8"	11mmT6		LIGHT CLOUDS IN & OUT	
<b>NGC 7794</b>	<b>Peg</b>	<b>H466-3</b>	<b>Galaxy S?</b>	<b>VF,PS,IR</b>
Sep 09 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
<b>NGC 7797</b>	<b>Psc</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 7798</b>	<b>Peg</b>	<b>H232-2</b>	<b>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>Peg</b>	<b>H10-2</b>	<b>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>Peg</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>Peg</b>	<b>H855-3</b>	<b>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>Peg</b>	<b>H856-3</b>	<b>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 7808</b>	<b>Cet</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>NGC 7810</b>	<b>Peg</b>	<b>H984-3</b>	<b>Galaxy S0</b>	<b>PF,STELL,2*NP INLINE</b>
Nov 02 2005 31"	19mmW	PBML,OVAL,FNUC,MSB,R=G		



# Observations Listing by Catalog Number

<b>NGC 7814</b>	<b>Peg</b>	<b>H240-2</b>	<b>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		
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>Peg</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>Peg</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>NGC 7822</b>	<b>Cep</b>		<b>Nebula R</b>	<b>EEF,EEL</b>
Jul 17 2020 12"	13mmHW	F,L,R=F. LP2		
<b>NGC 7831</b>	<b>And</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 7832</b>	<b>Psc</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>NGC 7836</b>	<b>And</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>PAL 1</b>	<b>Cep</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		
<b>PAL 2</b>	<b>Aur</b>		<b>Globular</b>	
Feb 21 2020 36"	17mmT4	FAINT, SMALL, SMUDGE. COULD NOT RESOLVE STARS. R=G		
<b>PAL 4</b>	<b>UMa</b>		<b>Globular</b>	
Apr 06 2010 12"	11mmT6	VF,VS,AV,R=F,FAINT SMUDGE, 12TH MAG START TO WEST.		
<b>PAL 5</b>	<b>Ser</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		

# Observations Listing by Catalog Number

<b>PAL 6</b>	<b>Oph</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>PAL 8</b>	<b>Sgr</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>PAL 10</b>	<b>Sge</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.	
<b>PAL 11</b>	<b>Aql</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>PAL 13</b>	<b>Peg</b>	<b>Globular</b>
Nov 02 2005 31"	19mmW PF,PS,PATCHY,R=F, CAN'T RESOLVE STARS	
<b>PAL 14</b>	<b>Her</b>	<b>Globular</b>
May 21 2009 16"	11mmT6 CF,PS,R=F, UNRESOLVED,STAR IN FRONT.	
<b>PAL 15</b>	<b>LMi</b>	<b>Globular</b>
May 21 2009 16"	11mmT6 VF,PS,AV,R=F UNRESOLVED.	
<b>PEASE 1</b>	<b>Peg</b>	<b>Planetary Neb 1</b>
Sep 27 2005 31"	17mmT4 VB,VS,R=F	
<b>PGC 25</b>	<b>Peg</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>Peg</b>	<b>Galaxy S?</b>
Nov 02 2005 31"	19mmW MF,PL,OVAL,NND,R=F	
<b>PGC 120</b>	<b>Peg</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>Peg</b>	<b>Galaxy</b>
Nov 02 2005 31"	19mmW PF,PS,R,NND,R=F	
<b>PGC 356</b>	<b>Psc</b>	<b>Galaxy Sb</b>
Nov 10 2007 31"	17mmT4 VF,PS,OVAL.MNND,AV,R=F	
<b>PGC 619</b>	<b>Peg</b>	<b>Galaxy Scd:</b>
Nov 02 2005 31"	19mmW MF,ML,OVAL,NND,R=F	
<b>PGC 731</b>	<b>And</b>	<b>Galaxy Scd:</b>
Oct 12 2012 18"	7mm TV VF,VS,EON,UB,NND,AV2,R=P	

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<b>PGC 782</b>	<b>Psc</b>	<b>Galaxy SBa</b>
Feb 20 2006 31"	17mmT4 DIFF,B,ML,OVAL,FNUC,R=F	
<b>PGC 797</b>	<b>Psc</b>	<b>Galaxy S</b>
Dec 12 2012 36"	17mmT4 VF,VS,OVAL,UB,NND,R=F, COMPANION OF NGC-36	
<b>PGC 847</b>	<b>Peg</b>	<b>Galaxy Sa</b>
Nov 02 2005 31"	19mmW PF,PS,EL,OVAL,R=F	
<b>PGC 873</b>	<b>Psc</b>	<b>Galaxy SBb</b>
Dec 12 2012 36"	17mmT4 VF,VS,OVAL,UB,NND,R=F	
<b>PGC 878</b>	<b>Peg</b>	<b>Galaxy S?</b>
Nov 02 2005 31"	19mmW B,ML,OVAL,FNUC,R=F	
<b>PGC 911</b>	<b>Peg</b>	<b>Galaxy S</b>
Nov 02 2005 31"	19mmW VF,VS,R,NND,AV,R=F	
<b>PGC 971</b>	<b>Cet</b>	<b>Galaxy S0</b>
Dec 12 2012 36"	17mmT4 PF,VSW,OVAL,UB,NND,R=-F	
<b>PGC 972</b>	<b>Cet</b>	<b>Galaxy</b>
Dec 12 2012 36"	17mmT4 VF,VS,OVAL,UB,NND,R=F	
<b>PGC 1183</b>	<b>And</b>	<b>Galaxy</b>
Oct 12 2012 18"	7mm TV VF,VS,OVAL,UB,NND,AV2,R=P	
<b>PGC 1942</b>	<b>ScI</b>	<b>Galaxy Sc sp</b>
Dec 12 2012 36"	17mmT4 PF,VS,EON,UB,NND,R=F,PA=70	
<b>PGC 2458</b>	<b>And</b>	<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4 VF,VS,EON,UB,NND,R=F,PA=45	
<b>PGC 2526</b>	<b>Cet</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>Cet</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>Cet</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 3133</b>	<b>Psc</b>	<b>Galaxy S?</b>
Dec 12 2012 36"	17mmT4 PF,VS,EON,UB,NND,R=F,PA=170	
<b>PGC 3777</b>	<b>Psc</b>	<b>Galaxy S</b>
Oct 30 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F	

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<b>PGC 4063</b>	<b>Cet</b>	<b>Galaxy SB(s)d? sp</b>
Dec 12 2012 36"	17mmT4 PF,PS,EON,UB,NND,R=F,PA=90	
<b>PGC 4878</b>	<b>And</b>	<b>Galaxy Sc</b>
Oct 30 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>PGC 5213</b>	<b>Psc</b>	<b>Galaxy SBb</b>
Dec 12 2012 36"	17mmT4 VF,VS,OVAL,UB,ND,R=F	
<b>PGC 5873</b>	<b>Tri</b>	<b>Galaxy S</b>
Nov 24 2006 31"	20mmUW PF,PS,OVAL,NND,R=F	
<b>PGC 5883</b>	<b>Tri</b>	<b>Galaxy</b>
Nov 24 2006 31"	20mmUW PF,S,OVAL,NND,R=F	
<b>PGC 5904</b>	<b>Tri</b>	<b>Galaxy SABdm:</b>
Nov 24 2006 31"	20mmUW PF,L,R,NND,R=F	
<b>PGC 6189</b>	<b>Tri</b>	<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4 PF,PS,EON,,AV,R=P,PA=50	
<b>PGC 6425</b>	<b>Psc</b>	<b>Galaxy S IV-V</b>
Nov 10 2007 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 6699</b>	<b>Tri</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>Tri</b>	<b>Galaxy C</b>
Dec 12 2012 36"	17mmT4 PF,VS,OVAL,UB,NND,R=F	
<b>PGC 6966</b>	<b>Cet</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	
<b>PGC 7244</b>	<b>Cet</b>	<b>Galaxy Sbc: sp</b>
Dec 12 2012 36"	17mmT4 VG,VS,EON,NND,R=P,PA=140	
<b>PGC 7888</b>	<b>Tri</b>	<b>Galaxy</b>
Nov 02 2005 31"	19mmW B,ML,R,NND,R=F	
<b>PGC 7931</b>	<b>Tri</b>	<b>Galaxy S?</b>
Nov 02 2005 31"	19mmW VF,VS,OVAL,NND,AV,R=F	
<b>PGC 7967</b>	<b>Tri</b>	<b>Galaxy SBbc</b>
Nov 02 2005 31"	19mmW MB,ML,OVAL,FNUC,MSB,R=G	
<b>PGC 8013</b>	<b>Tri</b>	<b>Galaxy S0-:</b>
Nov 02 2005 31"	19mmW PB,FL,OVAL,FNUC,MSB,R=G	

# Observations Listing by Catalog Number

<b>PGC 8019</b>	<b>Tri</b>	<b>Galaxy S?</b>
Nov 02 2005 31"	19mmW FB,FL,EON,FNUC,MSB,R=G	
<b>PGC 8040</b>	<b>Tri</b>	<b>Galaxy SAB0^</b>
Nov 02 2005 31"	19mmW FB,ML,OVAL,FNUC,MSB,R=G	
<b>PGC 8608</b>	<b>Tri</b>	<b>Galaxy C</b>
Dec 19 2006 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 8613</b>	<b>Tri</b>	<b>Galaxy C</b>
Dec 19 2006 31"	17mmT4 CF,CS,OVAL,NND,R=F	
<b>PGC 8763</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 8842</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 PF,PS,OVAL,NND,AV,R=F	
<b>PGC 8857</b>	<b>Tri</b>	<b>Galaxy C</b>
Dec 19 2006 31"	17mmT4 PF,VS,R,FNUC,R=F	
<b>PGC 8913</b>	<b>Cet</b>	<b>Galaxy SB(s)m: sp</b>
Dec 12 2012 36"	17mmT4 VF,VS,EON,NND,R=P,PA=60	
<b>PGC 8964</b>	<b>Ari</b>	<b>Galaxy Sd</b>
Dec 12 2012 36"	17mmT4 VF,VS,EON,NND,AV,R=P,PA=155	
<b>PGC 9134</b>	<b>Tri</b>	<b>Galaxy Sd</b>
Dec 12 2012 36"	17mmT4 VF,VS,EON,NND,AV,R=F,PA=50	
<b>PGC 9180</b>	<b>And</b>	<b>Galaxy SBa</b>
Oct 30 2005 31"	17mmT4 MF,MS,EL,NND,R=F	
<b>PGC 9203</b>	<b>And</b>	<b>Galaxy C</b>
Oct 30 2005 31"	17mmT4 MB,MS,EL,OVAL,NND,R=F	
<b>PGC 9375</b>	<b>Tri</b>	<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4 VF,PS,EON,UB,NND,AV3,R=F,PA=180	
<b>PGC 9638</b>	<b>Ari</b>	<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4 VS,PS,EON,NND,AV,R=F,PA=90	
<b>PGC 9764</b>	<b>Ari</b>	<b>Galaxy S</b>
Oct 30 2005 31"	17mmT4 VF,MS,EL,NND,R=F	
<b>PGC 9789</b>	<b>Tri</b>	<b>Galaxy</b>
Dec 19 2006 31"	17mmT4 PF,S,E,OVAL,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 9820</b>	<b>Tri</b>	<b>Galaxy S</b>
Dec 19 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 9888</b>	<b>Ari</b>	<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4 PF,PS,EON,NND,R=F,PA=120	
<b>PGC 9904</b>	<b>Cet</b>	<b>Galaxy Scd:</b>
Dec 12 2012 36"	17mmT4 VF,PS,EON,NND,AV2,R=P,PA=25	
<b>PGC 9983</b>	<b>And</b>	<b>Galaxy Sab</b>
Oct 10 2012 18"	8.8 ES F,S,EON,UB,NND,R=F,14.7 MAG, DIRECT VISION	
<b>PGC 10044</b>	<b>Ari</b>	<b>Galaxy IB(s)m pec</b>
Oct 25 2006 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 10046</b>	<b>Ari</b>	<b>Galaxy SB0/a: sp</b>
Oct 25 2006 31"	17mmT4 PB,S,EON,FNUC,R=G	
<b>PGC 10047</b>	<b>Per</b>	<b>Galaxy Sc</b>
Oct 10 2012 18"	8.8 ES VF,PS,OVAL,UB,AV2,R=P	
<b>PGC 11210</b>	<b>Per</b>	<b>Galaxy SA(s)cd</b>
Nov 10 2012 18"	7mm TV VF,PS,OVAL,UB,NND,R=F	
<b>PGC 11252</b>	<b>Cet</b>	<b>Galaxy Sd</b>
Dec 12 2012 36"	17mmT4 PF,PS,EON,UB,NND,R=F	
<b>PGC 11281</b>	<b>Per</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>Per</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>Per</b>	<b>Galaxy Compact group</b>
Nov 10 2012 18"	7mm TV PF,VS,R,UB,NND,R=F	
<b>PGC 11437</b>	<b>Per</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>Per</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>Per</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>Per</b>	<b>Galaxy Sb</b>
Nov 10 2012 18"	7mm TV PF,PS,EON,UBL,NND,R=F,PA=15	

# Observations Listing by Catalog Number

<b>PGC 11863</b>	<b>Per</b>		<b>Galaxy S0?</b>
Dec 13 2012 18"	8.8 ES	VF,VS,OVAL,UB,NND,R=F	
<b>PGC 11982</b>	<b>Per</b>		<b>Galaxy S?</b>
Dec 13 2012 18"	7mm TV	VF,PS,OVAL,NND,AV,R=P	
<b>PGC 12004</b>	<b>Per</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	VF,VS,OVAL,PEXT,UB,NND,R=F	
<b>PGC 12038</b>	<b>Per</b>		<b>Galaxy S0:</b>
Dec 13 2012 18"	7mm TV	VF,VS,OVAL,PEXT,FNUC,R=F	
<b>PGC 12039</b>	<b>Per</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	PF,CS,OVAL,MEXT,FNUC,R=F	
<b>PGC 12073</b>	<b>Per</b>		<b>Galaxy Dwarf</b>
Dec 13 2012 18"	7mm TV	VF,PS,OVAL,MEXT,NND,AV4,R=P	
<b>PGC 12081</b>	<b>Per</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>Per</b>		<b>Galaxy Scd:</b>
Dec 13 2012 18"	8.8 ES	VF,VS,R,UB,NND,R=F	
<b>PGC 12092</b>	<b>Per</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>Per</b>		<b>Galaxy</b>
Dec 13 2012 18"	7mm TV	VF,VS,R,UB,NND,AV2,R=P	
<b>PGC 12132</b>	<b>Per</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>Per</b>		<b>Galaxy Sab</b>
Dec 13 2012 18"	7mm TV	PF,VS,OVAL,PEXT,UB,NND,R=F	
<b>PGC 12185</b>	<b>Per</b>		<b>Galaxy Sa?</b>
Dec 13 2012 18"	7mm TV	PF,PS,EON,UB,NND,R=F	
<b>PGC 12254</b>	<b>Per</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>Per</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>Per</b>		<b>Galaxy</b>
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,AV1,R=F	

# Observations Listing by Catalog Number

<b>PGC 13884</b>	<b>Per</b>	<b>Galaxy Sbc</b>
Dec 18 2006 31"	20mmUW PF,PS,EON,NND,R=F	
<b>PGC 14034</b>	<b>Per</b>	<b>Galaxy S?</b>
Dec 18 2006 31"	20mmUW PF,L,OVA,NND,R=F	
<b>PGC 14152</b>	<b>Per</b>	<b>Galaxy S0</b>
Dec 18 2006 31"	20mmUW PF,PS,OVAL,NND,R=F	
<b>PGC 14253</b>	<b>Tau</b>	<b>Galaxy S IV</b>
Dec 18 2006 31"	20mmUW VF,PS,R,NND,AV,R=F	
<b>PGC 14276</b>	<b>Per</b>	<b>Galaxy Scd:</b>
Dec 18 2006 31"	20mmUW VF,PS,EON,NND,R=F	
<b>PGC 14314</b>	<b>Tau</b>	<b>Galaxy (R)SB(s)a</b>
Dec 18 2006 31"	20mmUW F,PS,OVAL,NND,R=F	
<b>PGC 14315</b>	<b>Tau</b>	<b>Galaxy (R')SAB(s)a</b>
Dec 18 2006 31"	20mmUW VF,PS,R,NND,AV,R=F	
<b>PGC 15548</b>	<b>Cam</b>	<b>Galaxy S0-:</b>
Oct 12 2012 18"	7mm TV VF,VS,OVAL,MEXT,UB,NND,R=F	
<b>PGC 15620</b>	<b>Eri</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>Eri</b>	<b>Galaxy S?</b>
Feb 20 2006 31"	17mmT4 MF,MS,OVAL,NND,R=F	
<b>PGC 15631</b>	<b>Eri</b>	<b>Galaxy (R')SAB(rs)0+:</b>
Feb 20 2006 31"	17mmT4 MB,ML,OVAL,FNUC,R=G	
<b>PGC 15636</b>	<b>Eri</b>	<b>Galaxy S</b>
Feb 20 2006 31"	17mmT4 MF,MS,OVAL,FNUC,R=F	
<b>PGC 16012</b>	<b>Ori</b>	<b>Galaxy Sd</b>
Feb 03 2005 31"	11mmT6 VF,MS,OVAL,NND,AV,R=F	
<b>PGC 16017</b>	<b>Ori</b>	<b>Galaxy Sa</b>
Feb 03 2005 31"	11mmT6 MB,MS,EL,EON,FNUC,R=G	
<b>PGC 19566</b>	<b>Cam</b>	<b>Galaxy S</b>
Oct 12 2012 18"	7mm TV VF,PS,R,UB,NND,AV3,R=P	
<b>PGC 20274</b>	<b>Mon</b>	<b>Galaxy IAB(s)m</b>
Dec 04 2004 8"	11mmT6 VF,OVAL,NND,AV,R=G	



# Observations Listing by Catalog Number

<b>PGC 20308</b>	<b>Lyn</b>	<b>Galaxy L</b>
Feb 01 2005 31"	17mmT4 MF,MS,OVAL,FNUC,R=G	
<b>PGC 20327</b>	<b>Lyn</b>	<b>Galaxy C</b>
Feb 01 2005 31"	17mmT4 VF,OVAL,NND,AV,R=F	
<b>PGC 20364</b>	<b>Lyn</b>	<b>Galaxy S0-:</b>
Feb 01 2005 31"	17mmT4 MB,ML,EL,FNUC,MSB,R=G	
<b>PGC 20383</b>	<b>Cam</b>	<b>Galaxy S?</b>
Dec 20 2006 31"	17mmT4 PF,PS,OVAL,NND,AV,R=F	
<b>PGC 20434</b>	<b>Cam</b>	<b>Galaxy I?</b>
Dec 20 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 20460</b>	<b>Cam</b>	<b>Galaxy Ring</b>
Dec 20 2006 31"	17mmT4 CB,PS,E,OVAL,FNUC,R=F	
<b>PGC 20695</b>	<b>Gem</b>	<b>Galaxy Sa:</b>
Feb 20 2006 31"	17mmT4 MF,ML,R,NND,R=F	
<b>PGC 20881</b>	<b>Gem</b>	<b>Galaxy SB?</b>
Feb 20 2006 31"	17mmT4 MB,MS,R,FNUC,MSB,R=G	
<b>PGC 20977</b>	<b>Gem</b>	<b>Galaxy</b>
Feb 23 2006 31"	19mmW PF,PS,EON,NND,R=F	
<b>PGC 20988</b>	<b>Gem</b>	<b>Galaxy Double System</b>
Feb 23 2006 31"	19mmW VF,PS,R,NND,R=F	
<b>PGC 21032</b>	<b>Gem</b>	<b>Galaxy Sb</b>
Feb 23 2006 31"	19mmW VF,VS,OVAL,NND,R=F	
<b>PGC 21064</b>	<b>Gem</b>	<b>Galaxy</b>
Feb 23 2006 31"	19mmW PF,FS,OVA,NND,R=F	
<b>PGC 21475</b>	<b>Lyn</b>	<b>Galaxy Scd:</b>
Feb 20 2006 31"	17mmT4 VF,MS,OVAL,PATCHY,NND,R=F	
<b>PGC 21635</b>	<b>Lyn</b>	<b>Galaxy S</b>
Feb 01 2005 31"	17mmT4 MF,ML,OVAL,PATCH,NND,R=F	
<b>PGC 21650</b>	<b>Lyn</b>	<b>Galaxy</b>
Feb 01 2005 31"	17mmT4 VS,R,NND,R=F	
<b>PGC 21685</b>	<b>Cam</b>	<b>Galaxy S</b>
Dec 20 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	

# Observations Listing by Catalog Number

<b>PGC 21693</b>	<b>Cam</b>	<b>Galaxy SB?</b>
Dec 20 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 21896</b>	<b>Cam</b>	<b>Galaxy S0-:</b>
Dec 20 2006 31"	17mmT4 PB:,PS,E,OVAL,FNUC,MHISB,R=G	
<b>PGC 21971</b>	<b>Cam</b>	<b>Galaxy SAB(s)c?</b>
Dec 20 2006 31"	17mmT4 PB,PL,R,BNUC,HISB,R=G	
<b>PGC 22010</b>	<b>Cam</b>	<b>Galaxy</b>
Dec 20 2006 31"	17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>PGC 22044</b>	<b>Cam</b>	<b>Galaxy Sc</b>
Dec 20 2006 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 22050</b>	<b>Cam</b>	<b>Galaxy E?</b>
Dec 20 2006 31"	17mmT4 PB,PL,E,OVAL,FNUC,R=G	
<b>PGC 22067</b>	<b>Cam</b>	<b>Galaxy S?</b>
Dec 20 2006 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 22127</b>	<b>Cam</b>	<b>Galaxy Sa</b>
Dec 20 2006 31"	17mmT4 PB,PL,EON,BNUC,HISB,R=G	
<b>PGC 22161</b>	<b>Lyn</b>	<b>Galaxy D</b>
Feb 01 2005 31"	17mmT4 VF,VS,OVAL,PATCH,NND,AV,R=F	
<b>PGC 22172</b>	<b>Lyn</b>	<b>Galaxy S</b>
Feb 01 2005 31"	17mmT4 VF,VS,EL,EON,NND,R=F	
<b>PGC 22175</b>	<b>Lyn</b>	<b>Galaxy S pec</b>
Feb 01 2005 31"	17mmT4 MB,ML,EL,OVAL,UB,R=G	
<b>PGC 22373</b>	<b>Lyn</b>	<b>Galaxy E</b>
Feb 20 2006 31"	17mmT4 MB,ML,OVAL,FNUC,MSB,R=F	
<b>PGC 22376</b>	<b>Lyn</b>	<b>Galaxy S0</b>
Feb 20 2006 31"	17mmT4 MB,MS,OVAL,NND,R=F	
<b>PGC 22506</b>	<b>Cnc</b>	<b>Galaxy Sb</b>
Feb 17 2012 18"	7mm TV VF,VS,EON,AV,R=F. AKA - UGC-4171, A.L. FLAT GALAXY	
<b>PGC 22533</b>	<b>Lyn</b>	<b>Galaxy S0/a</b>
Nov 10 2012 18"	7mm TV PF,VS,EON,UB,NND,R=F,PA=50	
<b>PGC 22890</b>	<b>Lyn</b>	<b>Galaxy Sab</b>
Nov 10 2012 18"	7mm TV VF,VS,EON,UB,NND,R=F,PA=40	

# Observations Listing by Catalog Number

<b>PGC 22891</b>	<b>Lyn</b>	<b>Galaxy E/S0</b>
Nov 10 2012 18"	7mm TV VF,VS,R,UB,NND,R=F	
<b>PGC 22906</b>	<b>Lyn</b>	<b>Galaxy E</b>
Nov 10 2012 18"	7mm TV VF,VS,OVAL,UB,AV1,R=F	
<b>PGC 22914</b>	<b>Lyn</b>	<b>Galaxy S?</b>
Nov 10 2012 18"	7mm TV VF,VS,R,UB,NND,AV,R=F	
<b>PGC 24978</b>	<b>Cam</b>	<b>Galaxy Dwarf Irr</b>
Mar 08 2013 18"	7mm TV VF,VS,OVAL,UB,NND,AV,R=F	
<b>PGC 27681</b>	<b>Leo</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>Leo</b>	<b>Galaxy Scd:</b>
May 25 2014 18"	8mm Ds VF,PS,EON,UB,NND,R=F,PA=55	
<b>PGC 28913</b>	<b>Sex</b>	<b>Galaxy IB(s)m</b>
Mar 15 2005 8"	11mmT6 MB,VS,OVAL,NND,AV,R=F	
<b>PGC 29372</b>	<b>Leo</b>	<b>Galaxy Sb</b>
Apr 07 2008 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>PGC 29413</b>	<b>Leo</b>	<b>Galaxy SABdm:</b>
Apr 19 2006 31"	19mmW PF,PS,OVAL,NND,R=F	
<b>PGC 29472</b>	<b>UMa</b>	<b>Galaxy SB(s)c? sp</b>
May 25 2014 18"	8mm Ds VF,PS,EON,UB,NND,R=F,PA=125	
<b>PGC 29488</b>	<b>Leo</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>Leo</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>Leo</b>	<b>Galaxy S</b>
Apr 15 2007 31"	17mmT4 PB,L,EON,BNUC,HISB,R=G	
<b>PGC 29768</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 15 2007 31"	17mmT4 PF,S,OVAL,NND,R=F	
<b>PGC 30008</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 15 2007 31"	17mmT4 B,PS,R,NND,R=F	
<b>PGC 30221</b>	<b>Leo</b>	<b>Galaxy Sb</b>
Apr 21 2007 31"	17mmT4 CF,PS,EON,NND,R=F	

## Observations Listing by Catalog Number

<b>PGC 30263</b>	<b>Leo</b>	<b>Galaxy S?</b>
Apr 21 2007 31"	17mmT4 PF,CS,OVAL,FNUC,R=F	
<b>PGC 30265</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 21 2007 31"	17mmT4 PF,CS,OVAL,FNUC,R=F	
<b>PGC 30326</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 21 2007 31"	17mmT4 CF,PS,R,NND,AV,R=F	
<b>PGC 30328</b>	<b>Leo</b>	<b>Galaxy Sab</b>
Apr 21 2007 31"	17mmT4 CF,PS,EON,NND,AV,R=F	
<b>PGC 30378</b>	<b>Leo</b>	<b>Galaxy C</b>
Apr 28 2006 31"	19mmW PF,PS,R,NND,AV,R=F	
<b>PGC 30397</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 21 2007 31"	17mmT4 F,CS,R,NND,R=F	
<b>PGC 30431</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 21 2007 31"	17mmT4 DIFF,PB,PS,R,NND,R=F	
<b>PGC 30432</b>	<b>Leo</b>	<b>Galaxy L</b>
Apr 21 2007 31"	17mmT4 DIFF,PB,L,R,NND,R=F	
<b>PGC 30456</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 21 2007 31"	17mmT4 PB,CS,OVAL,FNUC,MSB,R=G	
<b>PGC 30464</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 21 2007 31"	17mmT4 VF,CS,EON,NND,AV,R=F	
<b>PGC 30573</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 21 2007 31"	17mmT4 DIFF,PB,CL,R,NND,R=F	
<b>PGC 30585</b>	<b>Leo</b>	<b>Galaxy SB?</b>
Apr 21 2007 31"	17mmT4 PB,PS,OVAL,FNUC,MSB,R=G	
<b>PGC 31037</b>	<b>Sex</b>	<b>Galaxy SBd:</b>
May 25 2014 18"	8mm Ds PF,PS,EON,UB,NND,R=F,PA=150	
<b>PGC 31075</b>	<b>Leo</b>	<b>Galaxy Sbc</b>
Apr 19 2006 31"	19mmW PB,PL,EON,UB,BNUC,R=G	
<b>PGC 31526</b>	<b>Leo</b>	<b>Galaxy Sc</b>
Apr 21 2007 31"	17mmT4 CF,PS,R,NND,AV,R=F	
<b>PGC 31697</b>	<b>UMa</b>	<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4 PB,PL,EON,BNUC,HISB,R=G	

# Observations Listing by Catalog Number

<b>PGC 31720</b>	<b>UMa</b>	<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4 PB,PL,EON,BNUC,HISB,R=G	
<b>PGC 31959</b>	<b>UMa</b>	<b>Galaxy SBb</b>
Feb 23 2006 31"	17mmT4 PB,PL,EON,BNUC,HISB,R=G	
<b>PGC 31965</b>	<b>UMa</b>	<b>Galaxy S0/a</b>
Feb 23 2006 31"	17mmT4 PB,PL,EON,FNUC,MSB,R=G	
<b>PGC 32418</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 07 2008 31"	17mmT4 PF,VS,R,NND,R=F	
<b>PGC 32419</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 07 2008 31"	17mmT4 PF,VS,OVAL,NND,AV,R=F	
<b>PGC 32572</b>	<b>Leo</b>	<b>Galaxy DB</b>
Apr 07 2008 31"	17mmT4 DIFF,PF,PL,OVAL,NND,LSB,R=F	
<b>PGC 32948</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>PGC 33147</b>	<b>Leo</b>	<b>Galaxy Sbc</b>
Apr 19 2007 31"	17mmT4 VF,L,EON,NND,AV,R=F	
<b>PGC 33170</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 PF,PS,R,NND,R=F	
<b>PGC 33213</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 PF,PS,EL,OVAL,NND,R=F	
<b>PGC 33237</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 19 2007 31"	17mmT4 VF,VS,EL,OVAL,NND,AV,R=F	
<b>PGC 33244</b>	<b>Leo</b>	<b>Galaxy SB(s)c:</b>
Apr 19 2007 31"	17mmT4 CF,PS,EON,NND,R=F	
<b>PGC 33273</b>	<b>Leo</b>	<b>Galaxy</b>
Apr 19 2007 31"	17mmT4 CF,PS,OVAL,NND,R=F	
<b>PGC 33277</b>	<b>Dra</b>	<b>Galaxy Sab</b>
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	
<b>PGC 33278</b>	<b>Leo</b>	<b>Galaxy Sab</b>
Apr 19 2007 31"	17mmT4 CF,PS,OVAL,NND,AV,R=F	
<b>PGC 33282</b>	<b>Leo</b>	<b>Galaxy L</b>
Apr 19 2007 31"	17mmT4 B,VS,OVAL,FNUC,R=F	

# Observations Listing by Catalog Number

<b>PGC 33396</b>	<b>Leo</b>		<b>Galaxy Dwarf Spiral</b>
Apr 19 2007 31"	17mmT4	VF,PS,R,NND,AV,R=F	
<b>PGC 33461</b>	<b>Leo</b>		<b>Galaxy SAB(r)b:</b>
Apr 19 2007 31"	17mmT4	VF,PS,OVAL,NND,AV,R=F	
<b>PGC 33798</b>	<b>Leo</b>		<b>Galaxy E</b>
Apr 19 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
<b>PGC 33816</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	CF,PS,R,NND,AV,R=F	
<b>PGC 33843</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 19 2007 31"	17mmT4	VF,VS,EL,OVAL,NND,R=F	
<b>PGC 34303</b>	<b>UMa</b>		<b>Galaxy S0</b>
Feb 23 2006 31"	17mmT4	PB,PL,R,BNUC,HISB,R=G	
<b>PGC 34591</b>	<b>Leo</b>		<b>Galaxy S0 pec</b>
Apr 15 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 34633</b>	<b>Leo</b>		<b>Galaxy</b>
Apr 15 2007 31"	17mmT4	VF,VS,OVAL,NND,R=F	
<b>PGC 34733</b>	<b>UMa</b>		<b>Galaxy Sd</b>
Feb 23 2006 31"	17mmT4	FB,FL,EOB,FNUC,MSB,R=G	
<b>PGC 34768</b>	<b>UMa</b>		<b>Galaxy SB(s)ab</b>
Feb 23 2006 31"	17mmT4	FB,FL,R,FNUC,MSB,R=G	
<b>PGC 34881</b>	<b>Leo</b>		<b>Galaxy S0?</b>
Apr 26 2008 31"	17mmT4	PB,S,R,UB,NND,R=F	
<b>PGC 34901</b>	<b>Leo</b>		<b>Galaxy Star ??</b>
Apr 26 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F	
<b>PGC 34907</b>	<b>Leo</b>		<b>Galaxy S?</b>
Apr 26 2008 31"	17mmT4	B,VS,R,UB,R=F	
<b>PGC 35103</b>	<b>Leo</b>		<b>Galaxy S</b>
Apr 13 2005 31"	11mmT6	MF,MS,EL,OVAL,NND,AV,R=F	
<b>PGC 35179</b>	<b>Leo</b>		<b>Galaxy S</b>
Apr 26 2008 31"	17mmT4	VF,VS,EL,OVAL,NND,R=F	
<b>PGC 35183</b>	<b>Leo</b>		<b>Galaxy SB?</b>
Apr 26 2008 31"	17mmT4	VF,VS,EL,,OVAL,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 35355</b>	<b>Leo</b>	<b>Galaxy S?</b>
Apr 26 2008 31"	17mmT4 PF,S,OVAL,UB,NND,R=F	
<b>PGC 35360</b>	<b>Leo</b>	<b>Galaxy S0?</b>
Apr 26 2008 31"	17mmT4 PF,VS,EL,OVAL,UB,FNUC,R=G	
<b>PGC 35381</b>	<b>Leo</b>	<b>Galaxy S</b>
Apr 26 2008 31"	17mmT4 VF,VS,R,NND,	
<b>PGC 35514</b>	<b>Leo</b>	<b>Galaxy</b>
May 14 2010 31"	17mmT4 VF,CS,OVAL,NND,R=F	
<b>PGC 35588</b>	<b>Leo</b>	<b>Galaxy S0?</b>
May 14 2010 31"	17mmT4 PB,CS,R,BNUC,HSB,R=G	
<b>PGC 35589</b>	<b>Leo</b>	<b>Galaxy S</b>
May 14 2010 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 35609</b>	<b>UMa</b>	<b>Galaxy SB0 pec:</b>
Feb 23 2006 31"	17mmT4 FF,PS,OVAL,NND,R=F	
<b>PGC 35615</b>	<b>UMa</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>UMa</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>UMa</b>	<b>Galaxy Sa pec sp</b>
Feb 23 2006 31"	17mmT4 PB,FS,OVA,FNUC,MSB,R=G	
<b>PGC 35631</b>	<b>UMa</b>	<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4 PF,PL,EON,NND,R=F	
<b>PGC 35977</b>	<b>Leo</b>	<b>Galaxy S?</b>
Sep 01 2008 31"	17mmT4 CF,VS,OVAL,NND,R=F	
<b>PGC 35991</b>	<b>Leo</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>Leo</b>	<b>Galaxy S</b>
May 14 2010 31"	17mmT4 VF,VS,EON,UB,,NND,AV,R=F	
<b>PGC 36325</b>	<b>Vir</b>	<b>Galaxy Pec</b>
May 18 2007 31"	17mmT4 VF,S,R,NND,R=F	
<b>PGC 36343</b>	<b>UMa</b>	<b>Galaxy Scd:</b>
May 30 2014 18"	8mm Ds VF,PS,EON,UB,NND,R=F,PA=90	

# Observations Listing by Catalog Number

<b>PGC 36431</b>	<b>Leo</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>Leo</b>	<b>Galaxy S</b>
May 07 2007 31"	17mmT4 PF,CS,R,UB,NND,R=F	
<b>PGC 36565</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>PGC 36566</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>PGC 36575</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 PF,PS,RL,OVAL,NND,R=F	
<b>PGC 36586</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 DIFF,PF,PS,EL,OVAL,NND,R=F	
<b>PGC 36589</b>	<b>Leo</b>	<b>Galaxy S?</b>
May 07 2007 31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 36619</b>	<b>Leo</b>	<b>Galaxy E</b>
May 07 2007 31"	17mmT4 PF,PL,OVAL,UB,NND,R=F	
<b>PGC 36622</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 VF,PS,R,NND,R=F	
<b>PGC 36723</b>	<b>Vir</b>	<b>Galaxy SAB(rs)b? pec</b>
May 18 2007 31"	17mmT4 PF,PS,OVAL,NND,R=P	
<b>PGC 36733</b>	<b>Vir</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>Vir</b>	<b>Galaxy SB(s)c pec</b>
May 18 2007 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 36759</b>	<b>Leo</b>	<b>Galaxy S?</b>
Apr 18 2012 18"	8.8 ES VF,VS,OVAL,NND,AV2,R=F	
<b>PGC 37018</b>	<b>Leo</b>	<b>Galaxy S R</b>
May 07 2007 31"	17mmT4 VF,PS,R,NND,AV,R=F	
<b>PGC 37039</b>	<b>Leo</b>	<b>Galaxy</b>
May 07 2007 31"	17mmT4 PF,VS,OVAL,UB,NND,R=F	
<b>PGC 37040</b>	<b>Leo</b>	<b>Galaxy S</b>
May 07 2007 31"	17mmT4 CF,CS,OVAL,UB,NND,R=F	



# Observations Listing by Catalog Number

<b>PGC 37096</b>	<b>Leo</b>	<b>Galaxy E</b>
May 07 2007 31"	17mmT4 CF,PS,OVAL,NND,R=F	
<b>PGC 37175</b>	<b>Leo</b>	<b>Galaxy S?</b>
May 07 2007 31"	17mmT4 PF,PS,R,UB,NND,R=F	
<b>PGC 37192</b>	<b>Leo</b>	<b>Galaxy S</b>
May 07 2007 31"	17mmT4 PF,PS,EL,OVAL,NND,R=F	
<b>PGC 38354</b>	<b>Crv</b>	<b>Galaxy E?</b>
Apr 07 2008 31"	17mmT4 B,VS,OVAL,UB,NND,R=F	
<b>PGC 40602</b>	<b>Vir</b>	<b>Galaxy S?</b>
Mar 30 2014 18"	7mm TV VF,VS,R,UB,NND,R=F	
<b>PGC 41410</b>	<b>Vir</b>	<b>Galaxy SAB(s)c:</b>
May 14 2007 31"	17mmT4 CF,CS,EL,OVAL,NND,R=F	
<b>PGC 41666</b>	<b>Vir</b>	<b>Galaxy</b>
May 14 2007 31"	17mmT4 PF,CS,EON,UB,NND,R=F	
<b>PGC 41726</b>	<b>Vir</b>	<b>Galaxy E</b>
May 14 2007 31"	17mmT4 PF,PS,EON,UB,NND,R=F	
<b>PGC 43728</b>	<b>Vir</b>	<b>Galaxy Sab</b>
May 18 2007 31"	17mmT4 PB,PS,EL,OVAL,FNUC,MSB,R=G	
<b>PGC 43762</b>	<b>Vir</b>	<b>Galaxy</b>
May 18 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>PGC 43944</b>	<b>Vir</b>	<b>Galaxy S</b>
May 18 2007 31"	17mmT4 DIFF,CF,PL,EON,UB,NND,R=F	
<b>PGC 44105</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 PB,PS,OVAL,BNUC,MHISB,R=G	
<b>PGC 44109</b>	<b>Com</b>	<b>Galaxy C</b>
May 18 2009 31"	17mmT4 CF,CS,OVAL,NND,AV,R=F	
<b>PGC 44137</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 PF,PS,R,NND,R=F	
<b>PGC 44159</b>	<b>Com</b>	<b>Galaxy</b>
May 18 2009 31"	17mmT4 VF,VS,R,UB,NND,R=F	
<b>PGC 44358</b>	<b>Vir</b>	<b>Galaxy Sd: sp</b>
May 30 2014 18"	8mm Ds PF,PS,EON,UB,NND,R=F,PA=100	

# Observations Listing by Catalog Number

<b>PGC 44391</b>	<b>Com</b>	<b>Galaxy SBb</b>
May 30 2014 18"	8mm Ds PF,PS,EONL,UB,NND,R=F,PA=35	
<b>PGC 45084</b>	<b>Vir</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 45710</b>	<b>Com</b>	<b>Galaxy S?</b>
May 12 2005 31"	19mmW MB,MS,EL,EON,NND,R=F	
<b>PGC 49480</b>	<b>CVn</b>	<b>Galaxy SBb</b>
May 12 2005 31"	19mmW VF,ML,OVAL,NND,R=F	
<b>PGC 49542</b>	<b>CVn</b>	<b>Galaxy Sdm:</b>
May 12 2005 31"	19mmW VB,VS,EL,EON,BNUC,R=G	
<b>PGC 50693</b>	<b>Boo</b>	<b>Galaxy S0/a</b>
May 22 2006 31"	19mmW PB,CS,EON,FNUC,R=F	
<b>PGC 50828</b>	<b>Boo</b>	<b>Galaxy S</b>
Jun 03 2005 31"	11mmT6 VF,MS,OVAL,NND,AV,R=F	
<b>PGC 51372</b>	<b>Boo</b>	<b>Galaxy SAcd</b>
May 22 2006 31"	19mmW PB,PL,OVAL,FNUC,R=G	
<b>PGC 51389</b>	<b>Vir</b>	<b>Galaxy C</b>
Apr 28 2006 31"	19mmW VF,VS,R,NND,R=F	
<b>PGC 51400</b>	<b>Vir</b>	<b>Galaxy SB(s)d</b>
Apr 28 2006 31"	19mmW CF,CS,OVAL,NND,R=F	
<b>PGC 51417</b>	<b>Boo</b>	<b>Galaxy S0</b>
May 22 2006 31"	19mmW PB,CS,OVAL,FNUC,R=F	
<b>PGC 51443</b>	<b>Boo</b>	<b>Galaxy L</b>
Jun 05 2011 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>PGC 51447</b>	<b>Boo</b>	<b>Galaxy L</b>
Jun 05 2011 31"	17mmT4 VF,CS,OVAL,MEXT,UB,NND,R=F	
<b>PGC 51464</b>	<b>Boo</b>	<b>Galaxy S</b>
Jun 05 2011 31"	17mmT4 F,PS,EEXT,UB,FNUC,R=G,PA=40	
<b>PGC 51470</b>	<b>Boo</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>Boo</b>	<b>Galaxy Sc</b>
Jun 05 2011 31"	17mmT4 VF,CS,OVAL,VEXT,UB,NND,R=F,PA=60	

# Observations Listing by Catalog Number

<b>PGC 51503</b>	<b>Boo</b>	<b>Galaxy Sd</b>
May 22 2006 31"	19mmW F,PL,EON,NND,R=F	
<b>PGC 51622</b>	<b>Vir</b>	<b>Galaxy Sbc</b>
Apr 28 2006 31"	19mmW F,S,R,NND,R=F CLASS O1503	
<b>PGC 51692</b>	<b>Boo</b>	<b>Galaxy SBab</b>
Jun 05 2011 31"	17mmT4 VF,CS,OVAL,UB,NND,R=G	
<b>PGC 51792</b>	<b>Boo</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>Boo</b>	<b>Galaxy Sa</b>
Jun 05 2011 31"	17mmT4 VF,VS,OVAL,UB,NND,R=F,PAIRED WPGC51792	
<b>PGC 51872</b>	<b>Boo</b>	<b>Galaxy Sc</b>
Jun 05 2011 31"	17mmT4 F,VS,OVAL,UB,NND,AV,R=F	
<b>PGC 51881</b>	<b>Boo</b>	<b>Galaxy L</b>
Jun 05 2011 31"	17mmT4 F,S,R,UB,NND,R=F	
<b>PGC 51909</b>	<b>Vir</b>	<b>Galaxy Sc</b>
Apr 29 2006 31"	19mmW VF,VS,EON,NND,AV,R=F	
<b>PGC 51928</b>	<b>Boo</b>	<b>Galaxy S</b>
Jun 05 2011 31"	17mmT4 CF,CS,OVAL,VEXT,UB,NND,R=F	
<b>PGC 52027</b>	<b>Boo</b>	<b>Galaxy SBb</b>
Jun 05 2011 31"	17mmT4 DIFF,VF,CS,R,UB,NND,R=F	
<b>PGC 52160</b>	<b>Boo</b>	<b>Galaxy S0</b>
Jun 05 2011 31"	17mmT4 PF,CS,EON,FNUC,R=F	
<b>PGC 52183</b>	<b>Boo</b>	<b>Galaxy S0/a</b>
Jun 05 2011 31"	17mmT4 PF,CS,R,BNUC,R=G	
<b>PGC 52199</b>	<b>Vir</b>	<b>Galaxy S0</b>
Apr 29 2006 31"	19mmW F,VS,R,NND,R=F	
<b>PGC 52301</b>	<b>Boo</b>	<b>Galaxy SBR</b>
Jun 05 2011 31"	17mmT4 VF,VS,R,UB,NND,AV,R=P	
<b>PGC 52358</b>	<b>Boo</b>	<b>Galaxy</b>
Jun 05 2011 31"	17mmT4 VF,ES,OVAL,UB,NND,R=F	
<b>PGC 52373</b>	<b>Boo</b>	<b>Galaxy Sc</b>
Jun 05 2011 31"	17mmT4 VF,VS,R,UB,NND,AV,R=P	

# Observations Listing by Catalog Number

<b>PGC 52612</b>	<b>Lib</b>	<b>Galaxy SB(s)d</b>
May 28 2006 31"	19mmW VF,CS,OVAL,NND,AV,R=F	
<b>PGC 52816</b>	<b>Lib</b>	<b>Galaxy (R')SB(r)a</b>
Jul 06 2010 12"	7.5mmW VF,S,R,UB,NND,R=F	
<b>PGC 54559</b>	<b>Ser</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>PGC 56398</b>	<b>Her</b>	<b>Galaxy S0</b>
May 21 2009 16"	11mmT6 CF,CS,R,UB,NND,R=F	
<b>PGC 56544</b>	<b>Her</b>	<b>Galaxy S0-:</b>
May 21 2009 16"	11mmT6 CF,PS,EL,OVAL,NND,R=F	
<b>PGC 56685</b>	<b>Her</b>	<b>Galaxy SAB0-</b>
Jul 16 2007 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 58867</b>	<b>Her</b>	<b>Galaxy Sc</b>
Jul 16 2009 16"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 58895</b>	<b>Her</b>	<b>Galaxy</b>
Jul 16 2009 16"	17mmT4 PB,CS,R,BNUC,R=G	
<b>PGC 58960</b>	<b>Dra</b>	<b>Galaxy Sb</b>
May 23 2012 18"	8.8 ES CF,CS,EON,UB,NND,AV2,R=F,PA=95	
<b>PGC 59061</b>	<b>Her</b>	<b>Galaxy Sa</b>
Jul 16 2009 16"	17mmT4 CF,PS,R,UB,NND,R=F	
<b>PGC 59062</b>	<b>Her</b>	<b>Galaxy S0 pec:</b>
Jul 16 2009 16"	17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>PGC 59102</b>	<b>Her</b>	<b>Galaxy Sb</b>
Jul 16 2009 16"	17mmT4 CF,PS,R,NND,R=F	
<b>PGC 60346</b>	<b>Oph</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>Oph</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>Oph</b>	<b>Galaxy Scd:</b>
Jul 31 2011 12"	5mm TV F,CS,EON,UB,NND,R=F	
<b>PGC 61919</b>	<b>Lyr</b>	<b>Galaxy S</b>
Aug 16 2009 31"	17mmT4 VF,VS,OVAL,UB,AV,R=F	

# Observations Listing by Catalog Number

<b>PGC 61939</b>	<b>Lyr</b>	<b>Galaxy</b>
Aug 16 2009 31"	17mmT4 VF,VS,R,NND,R=F	
<b>PGC 61966</b>	<b>Lyr</b>	<b>Galaxy SBa</b>
Aug 16 2009 31"	17mmT4 PF,CS,OVAL,UB,NND,R=F	
<b>PGC 61991</b>	<b>Lyr</b>	<b>Galaxy S?</b>
Aug 16 2009 31"	17mmT4 PB,PS,R,BNUC,HISB,R=G	
<b>PGC 62043</b>	<b>Lyr</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>Lyr</b>	<b>Galaxy SB</b>
Aug 16 2009 31"	17mmT4 PF,PS,OVAL,FNUC,R=F	
<b>PGC 62104</b>	<b>Lyr</b>	<b>Galaxy Sd:</b>
Aug 16 2009 31"	17mmT4 PF,PS,EON,UB,NND,R=F	
<b>PGC 62522</b>	<b>Lyr</b>	<b>Galaxy S</b>
Aug 13 2007 31"	31mmT5 VF,VS,EON,NND,AV,R=F	
<b>PGC 62556</b>	<b>Lyr</b>	<b>Galaxy</b>
Sep 01 2011 31"	17mmT4 VF,VS,OVAL,UB,NND,AV3,R=P	
<b>PGC 62559</b>	<b>Lyr</b>	<b>Galaxy S</b>
Sep 01 2011 31"	17mmT4 F,CS,R,UB,NND,R=F,DV	
<b>PGC 62560</b>	<b>Lyr</b>	<b>Galaxy</b>
Sep 01 2011 31"	17mmT4 VF,ES,OVAL,UB,NND,AV2,R=F	
<b>PGC 62595</b>	<b>Lyr</b>	<b>Galaxy Sab</b>
Sep 01 2011 31"	17mmT4 PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>PGC 62606</b>	<b>Lyr</b>	<b>Galaxy</b>
Sep 01 2011 31"	17mmT4 VF,VS,R,UB,NND,AV2,R=P	
<b>PGC 62613</b>	<b>Lyr</b>	<b>Galaxy E?</b>
Sep 01 2011 31"	17mmT4 CF,CS,OVAL,UB,NND,R=F,DV	
<b>PGC 62664</b>	<b>Lyr</b>	<b>Galaxy</b>
Sep 01 2011 31"	17mmT4 CF,VS,OVAL,NND,R=P, PAIRED W/PGC-62665	
<b>PGC 62665</b>	<b>Lyr</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>Lyr</b>	<b>Galaxy Scd:</b>
Sep 01 2011 31"	17mmT4 DIFF,CF,PS,OVAL,MEXT,UB,NND,AV,R=F	

# Observations Listing by Catalog Number

<b>PGC 63101</b>	<b>Lyr</b>	<b>Galaxy SA(s)c</b>
Aug 16 2009 31"	17mmT4 CF,CS,R,UB,NND,R=F	
<b>PGC 63211</b>	<b>Cyg</b>	<b>Galaxy S</b>
Aug 13 2010 31"	17mmT4 CF,VS,R,UB,NND,R=F	
<b>PGC 63311</b>	<b>Cyg</b>	<b>Galaxy Sb</b>
Jul 25 2011 12"	7mm TV VF,VS,OVAL,UB,NNS,R=F,AV1	
<b>PGC 63440</b>	<b>Cyg</b>	<b>Galaxy S0-:</b>
Jul 25 2011 12"	7mm TV VF,VS,OVAL,UB,NND,R=P,AV1	
<b>PGC 63529</b>	<b>Cyg</b>	<b>Galaxy SAB(s)0-</b>
Jul 21 2004 8"	25mmPL SHORT NIGHT - CLOUDS ROLLED IN.	
<b>PGC 63552</b>	<b>Cyg</b>	<b>Galaxy S?</b>
Jul 25 2011 12"	7mm TV VF,VS,OVAL,UB,NND,R=P	
<b>PGC 63766</b>	<b>Cyg</b>	<b>Galaxy SAB(s)bc</b>
Jul 25 2011 12"	7mm TV VF,CS,OVAL,NND,R=P	
<b>PGC 63912</b>	<b>Aql</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>Aql</b>	<b>Galaxy Sb:</b>
Aug 13 2010 31"	17mmT4 VF,CS,OVAL,PEXT,NND,AV,R=F	
<b>PGC 64548</b>	<b>Cap</b>	<b>Galaxy SA(rs)cd</b>
Aug 24 2005 8"	7.5mmW VF,VS,R,NND,R=F	
<b>PGC 64553</b>	<b>Aql</b>	<b>Galaxy SB(s)d:</b>
Aug 31 2008 31"	17mmT4 VF,VS,OVAL,NND,AV,R=P	
<b>PGC 64672</b>	<b>Cap</b>	<b>Galaxy Sc</b>
Sep 28 2008 31"	17mmT4 CF,ES,R,NND,AV,R=F	
<b>PGC 64812</b>	<b>Aql</b>	<b>Galaxy Sb</b>
Aug 31 2008 31"	17mmT4 VF,VS,R,NND,AV,R=P	
<b>PGC 64854</b>	<b>Aql</b>	<b>Galaxy</b>
Aug 31 2008 31"	17mmT4 VF,VS,R,NND,R=F	
<b>PGC 64864</b>	<b>Aql</b>	<b>Galaxy SB(rs)0/a:</b>
Aug 31 2008 31"	17mmT4 CF,CS,OVAL,NND,R=F	
<b>PGC 64880</b>	<b>Aql</b>	<b>Galaxy E</b>
Aug 31 2008 31"	17mmT4 VF,VS,R,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 64907</b>	<b>Cap</b>	<b>Galaxy IBm pec</b>
Sep 28 2008 31"	17mmT4 EF,VS,OVAL,NND,AV,R=F	
<b>PGC 64910</b>	<b>Aql</b>	<b>Galaxy (R')SAB(rs)bc p</b>
Aug 31 2008 31"	17mmT4 CF,S,OVAL,NND,R=P	
<b>PGC 64976</b>	<b>Del</b>	<b>Galaxy</b>
Aug 31 2008 31"	17mmT4 EF,ES,R,NND,AV,R=P	
<b>PGC 64995</b>	<b>Del</b>	<b>Galaxy E</b>
Aug 31 2008 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>PGC 64999</b>	<b>Del</b>	<b>Galaxy Sc</b>
Aug 31 2008 31"	17mmT4 VF,VS,EON,NND,AV,R=F	
<b>PGC 65060</b>	<b>Del</b>	<b>Galaxy Sb</b>
Aug 31 2008 31"	17mmT4 PF,CS,OVAL,UB,NND,R=F	
<b>PGC 65099</b>	<b>Del</b>	<b>Galaxy S0</b>
Aug 31 2008 31"	17mmT4 CF,S,OVAL,NND,R=F	
<b>PGC 65138</b>	<b>Del</b>	<b>Galaxy E</b>
Aug 31 2008 31"	17mmT4 PF,VS,OVAL,UB,NND,R=F	
<b>PGC 65281</b>	<b>Del</b>	<b>Galaxy S?</b>
Sep 25 2006 31"	19mmW PF,PS,OVAL,NND,AV,R=F	
<b>PGC 65293</b>	<b>Del</b>	<b>Galaxy SB(r)a</b>
Sep 25 2006 31"	19mmW PF,PS,OVAL,NND,AV,R=F	
<b>PGC 65308</b>	<b>Aqr</b>	<b>Galaxy L</b>
Sep 27 2005 31"	17mmT4 VB,ML,OVAL,FNUC,MSB,R=G	
<b>PGC 65331</b>	<b>Aqr</b>	<b>Galaxy SBbc</b>
Sep 27 2005 31"	17mmT4 VF,VS,R,NND,AV,R=F	
<b>PGC 65391</b>	<b>Aqr</b>	<b>Galaxy Scd</b>
Sep 27 2005 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>PGC 65444</b>	<b>Aqr</b>	<b>Galaxy SBab</b>
Sep 13 2007 31"	17mmT4 PF,PS,EON,UB,NND,R=F	
<b>PGC 65482</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW PF,S,R,NND,R=F	
<b>PGC 65555</b>	<b>Cap</b>	<b>Galaxy Scd? sp</b>
Sep 28 2008 31"	17mmT4 VF,S,OVAL,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 65923</b>	<b>Cap</b>	<b>Galaxy SB(rs)0+ pec:</b>
Sep 27 2005 31"	17mmT4 MB,ML,OVAL,FNUC,MSB,R=F	
<b>PGC 65927</b>	<b>Aqr</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 VF,VS,OVAL,UB,NND,R=F,AV3	
<b>PGC 65971</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW VF,VS,OVAL,NND,R=F	
<b>PGC 66125</b>	<b>Del</b>	<b>Galaxy S R</b>
Sep 25 2006 31"	19mmW VF,PS,R,NND,AV,R=F	
<b>PGC 66139</b>	<b>Del</b>	<b>Galaxy</b>
Sep 25 2006 31"	19mmW PF,PS,OVAL,NND,R=F	
<b>PGC 66170</b>	<b>Del</b>	<b>Galaxy E</b>
Sep 25 2006 31"	19mmW PB,FL,R,FNUC,R=G	
<b>PGC 66176</b>	<b>Del</b>	<b>Galaxy S?</b>
Sep 25 2006 31"	19mmW PB,FL,EL,OVAL,FNUC,MHISB,R=G	
<b>PGC 66178</b>	<b>Del</b>	<b>Galaxy Scd:</b>
Sep 25 2006 31"	19mmW VF,S,EON,NND,AV,R=F	
<b>PGC 66242</b>	<b>Aqr</b>	<b>Galaxy SB(rs)bc:</b>
Sep 27 2005 31"	17mmT4 VF,VL,OVAL,PATCH,NND,R=F	
<b>PGC 66265</b>	<b>Aqr</b>	<b>Galaxy</b>
Sep 27 2005 31"	17mmT4 VS,VF,R,NND,R=F	
<b>PGC 66279</b>	<b>Aqr</b>	<b>Galaxy E</b>
Sep 27 2005 31"	17mmT4 MF,ML,R,NND,R=F	
<b>PGC 66538</b>	<b>Vul</b>	<b>Galaxy</b>
Sep 01 2011 31"	17mmT4 PF,CS,R,BNUC,R=G	
<b>PGC 66590</b>	<b>Aqr</b>	<b>Galaxy SBcd:</b>
Oct 05 2005 31"	17mmT4 VF,ML,EL,NND,R=F	
<b>PGC 66904</b>	<b>Aqr</b>	<b>Galaxy SAB(s)bc pec?</b>
Sep 13 2007 31"	17mmT4 CF,PL,R,NND,AV,R=F	
<b>PGC 66940</b>	<b>Aqr</b>	<b>Galaxy S</b>
Oct 05 2005 31"	17mmT4 PF,PS,R,NND,AV,R=F	
<b>PGC 66966</b>	<b>Peg</b>	<b>Galaxy E</b>
Sep 25 2006 31"	19mmW PF,VS,OVAL,NND,R=F	



# Observations Listing by Catalog Number

<b>PGC 67049</b>	<b>Cyg</b>		<b>Galaxy SAB0<sup>^</sup></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 67153</b>	<b>Peg</b>		<b>Galaxy S?</b>
Sep 25 2006 31"	19mmW	VF,VS,EON,NND,AV,R=F	
<b>PGC 67246</b>	<b>Cyg</b>		<b>Galaxy SB?</b>
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV4	
<b>PGC 67282</b>	<b>Aqr</b>		<b>Galaxy Scd: sp</b>
Sep 13 2007 31"	17mmT4	VF,PS,EON,NND,AV,R=F	
<b>PGC 67741</b>	<b>Peg</b>		<b>Galaxy C</b>
Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
<b>PGC 67762</b>	<b>Peg</b>		<b>Galaxy</b>
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F	
<b>PGC 67897</b>	<b>Peg</b>		<b>Galaxy SB?</b>
Sep 01 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F	
<b>PGC 68011</b>	<b>Peg</b>		<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4	VF,S,EON,NND,R=F	
<b>PGC 68079</b>	<b>Lac</b>		<b>Galaxy SBd:</b>
Aug 24 2012 18"	5mm TV	VF,VS,OVAL,UB,NND,AV,R=F	
<b>PGC 68110</b>	<b>Lac</b>		<b>Galaxy SABbc</b>
Aug 24 2012 18"	5mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F	
<b>PGC 68171</b>	<b>Lac</b>		<b>Galaxy Sb</b>
Aug 24 2012 18"	5mm TV	VF,VS,R,UB,NND,R=F	
<b>PGC 68229</b>	<b>Aqr</b>		<b>Galaxy S</b>
Sep 13 2007 31"	17mmT4	PF,PS,R,NND,AV,R=F	
<b>PGC 68240</b>	<b>Aqr</b>		<b>Galaxy</b>
Sep 13 2007 31"	17mmT4	PF,PS,R,NND,R=F	
<b>PGC 68259</b>	<b>Peg</b>		<b>Galaxy Sa</b>
Oct 23 2008 31"	17mmT4	F,S,R,NND,R=F	
<b>PGC 68325</b>	<b>Peg</b>		<b>Galaxy</b>
Oct 23 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P	
<b>PGC 68327</b>	<b>Peg</b>		<b>Galaxy SBcd?</b>
Oct 23 2008 31"	17mmT4	VF,CS,EON,NND,AV,R=P	

# Observations Listing by Catalog Number

<b>PGC 68331</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 23 2008 31"	17mmT4 F,VS,OVAL,NND,AV,R=F	
<b>PGC 68341</b>	<b>Peg</b>	<b>Galaxy Sab</b>
Oct 23 2008 31"	17mmT4 F,S,OVAL,UB,NND,R=F	
<b>PGC 68343</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4 VF,S,R,NND,AV,R=P	
<b>PGC 68348</b>	<b>Peg</b>	<b>Galaxy Sc</b>
Oct 23 2008 31"	17mmT4 VF,VS,OVAL,NND,AV,R=P	
<b>PGC 68356</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 23 2008 31"	17mmT4 F,VS,R,UB,NND,R=F	
<b>PGC 68368</b>	<b>Peg</b>	<b>Galaxy C</b>
Oct 23 2008 31"	17mmT4 F,CS,R,NND,R=F	
<b>PGC 68393</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 23 2008 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 68482</b>	<b>Lac</b>	<b>Galaxy SAB(s)bc</b>
Aug 24 2012 18"	5mm TV PF,PS,EON,NND,AV1,R=P,12 MAG STAR EAST EDGE	
Sep 11 2007 31"	17mmT4 B,FL,EON,UB,NND,MSB,R=G	
<b>PGC 68543</b>	<b>Peg</b>	<b>Galaxy SA(s)c</b>
Oct 23 2008 31"	17mmT4 VF,S,R,NND,AV,R=F	
<b>PGC 68617</b>	<b>Peg</b>	<b>Galaxy Sbc</b>
Oct 30 2005 31"	17mmT4 MB,ML,EON,FNUC,R=F	
<b>PGC 68623</b>	<b>Lac</b>	<b>Galaxy Sa</b>
Sep 11 2007 31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 68664</b>	<b>Peg</b>	<b>Galaxy SBc</b>
Sep 25 2006 31"	19mmW VF,CS,OVAL,NND,AV,R=F	
<b>PGC 68675</b>	<b>Lac</b>	<b>Galaxy S?</b>
Sep 11 2007 31"	17mmT4 VF,PS,OVAL,NND,AV,R=F	
<b>PGC 68706</b>	<b>Lac</b>	<b>Galaxy</b>
Sep 11 2007 31"	17mmT4 VF,PS,NND,R=F	
<b>PGC 68713</b>	<b>Lac</b>	<b>Galaxy Sb</b>
Sep 11 2007 31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 68715</b>	<b>Lac</b>	<b>Galaxy S</b>
Sep 11 2007 31"	17mmT4 PF,PS,EON,UB,R=F	

# Observations Listing by Catalog Number

<b>PGC 68952</b>	<b>Peg</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>Peg</b>	<b>Galaxy S</b>
Sep 01 2011 31"	17mmT4 CF,VS,R,UB,NND,AV3,R=P	
<b>PGC 69095</b>	<b>Peg</b>	<b>Galaxy SBb</b>
Oct 23 2008 31"	17mmT4 F,S,OVAL,UB,NND,R=F	
<b>PGC 69148</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4 F,S,OVAL,UB,NND,R=F	
<b>PGC 69220</b>	<b>Peg</b>	<b>Galaxy Sd:</b>
Oct 23 2008 31"	17mmT4 VF,VS,OVAL,NND,AV,R=F	
<b>PGC 69245</b>	<b>Peg</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>Peg</b>	<b>Galaxy Sb</b>
Oct 23 2008 31"	17mmT4 CF,CS,EL,OVAL,UB,NND,R=F	
<b>PGC 69305</b>	<b>Peg</b>	<b>Galaxy S0</b>
Oct 23 2008 31"	17mmT4 F,S,OVAL,NND,R=F	
<b>PGC 69351</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4 VF,S,OVAL,NND,AV,R=F	
<b>PGC 69360</b>	<b>Peg</b>	<b>Galaxy S0</b>
Oct 23 2008 31"	17mmT4 F,S,OVAL,,NND,R=F	
<b>PGC 69387</b>	<b>Peg</b>	<b>Galaxy E</b>
Oct 23 2008 31"	17mmT4 F,S,OVAL,UB,NND,R=F	
<b>PGC 69402</b>	<b>Peg</b>	<b>Galaxy SB?b</b>
Oct 23 2008 31"	17mmT4 VF,S,OVAL,NND,AV,R=F	
<b>PGC 69434</b>	<b>Peg</b>	<b>Galaxy S?</b>
Oct 23 2008 31"	17mmT4 F,S,R,UB,NND,R=F	
<b>PGC 69457</b>	<b>Peg</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>Peg</b>	<b>Galaxy SB0/a</b>
Oct 23 2008 31"	17mmT4 F,CS,OVAL,UB,NND,R=F	
<b>PGC 69493</b>	<b>Peg</b>	<b>Galaxy S0</b>
Oct 23 2008 31"	17mmT4 CF,CS,R,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 69524</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 23 2008 31"	17mmT4 CF,CS,EON,NND,AV,R=F	
<b>PGC 69559</b>	<b>Peg</b>	<b>Galaxy Sb</b>
Nov 02 2010 31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 69675</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 PF,PS,OVAL,FNUC,R=F,PAIRED W/NGC-7374	
<b>PGC 69858</b>	<b>Peg</b>	<b>Galaxy S0?</b>
Aug 25 2011 12"	5mm TV VF,VS,R,UB,NND,AV,R=P	
<b>PGC 69955</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 VF,VS,R,NND,R=F	
<b>PGC 69984</b>	<b>Peg</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>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,ES,R,UB,NND,R=F	
<b>PGC 70001</b>	<b>Peg</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>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 PF,ES,R,FNUC,R=F	
<b>PGC 70022</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,ES,R,UB,NND,R=F	
<b>PGC 70023</b>	<b>Peg</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>Peg</b>	<b>Galaxy Sc</b>
Nov 02 2010 31"	17mmT4 CF,VS,R,UB,NND,R=F	
<b>PGC 70055</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 PF,ES,R,UB,NND,R=F	
<b>PGC 70063</b>	<b>Peg</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>Peg</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>Peg</b>	<b>Galaxy C</b>
Nov 03 2013 36"	17mmT4 VF,VS,OVAL,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 70115</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 VF,VS,OVAL,UB,NND,R=F	
<b>PGC 70136</b>	<b>Peg</b>	<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 70162</b>	<b>Peg</b>	<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4 VF,PS,R,UB,NND,AV1,R=F	
<b>PGC 70174</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 15 2006 31"	19mmW VF,VS,OVAL,NND,AV,R=F	
<b>PGC 70175</b>	<b>Peg</b>	<b>Galaxy Sdm:</b>
Nov 03 2013 36"	17mmT4 VF,CS,EON,UB,NND,R=F,PA=30	
<b>PGC 70180</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 03 2013 36"	17mmT4 PF,PS,R,UB,NND,R=F	
<b>PGC 70190</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 PF,VS,R,FNUC,R=G	
<b>PGC 70200</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,CS,OVAL,UB,R=F	
<b>PGC 70210</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 PF,VS,R,FNUC,,R=F	
<b>PGC 70211</b>	<b>Peg</b>	<b>Galaxy SB</b>
Oct 15 2006 31"	19mmW CF,CS,R,NND,AV,R=F	
<b>PGC 70228</b>	<b>Peg</b>	<b>Galaxy Sc</b>
Nov 02 2010 31"	17mmT4 VF,CS,OVAL,PET,UB,NND,R=F,AV2	
<b>PGC 70247</b>	<b>Peg</b>	<b>Galaxy Sc</b>
Nov 03 2013 36"	17mmT4 CF,PS,OVAL,UB,NND,R=F	
<b>PGC 70254</b>	<b>Peg</b>	<b>Galaxy S0/a</b>
Oct 15 2006 31"	19mmW PF,PS,EON,NND,R=F	
<b>PGC 70269</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 15 2006 31"	19mmW PF,PS,R,NND,R=F	
<b>PGC 70275</b>	<b>Peg</b>	<b>Galaxy S?</b>
Oct 15 2006 31"	19mmW PF,PS,EL,OVAL,NND,R=F	
<b>PGC 70307</b>	<b>Peg</b>	<b>Galaxy Sb-c</b>
Nov 02 2010 31"	17mmT4 VF,VS,EON,NND,R=F,AV4	

# Observations Listing by Catalog Number

<b>PGC 70326</b>	<b>Peg</b>	<b>Galaxy S0/a</b>
Oct 15 2006 31"	19mmW VF,VS,OVAL,NND,R=F	
<b>PGC 70374</b>	<b>Peg</b>	<b>Galaxy SB0</b>
Oct 15 2006 31"	19mmW VF,CS,OVAL,NND,R=F	
<b>PGC 70403</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 15 2006 31"	19mmW VF,VS,OVAL,NND,R=F	
<b>PGC 70404</b>	<b>Peg</b>	<b>Galaxy S</b>
Oct 15 2006 31"	19mmW VF,PS,OVAL,NND,AV,R=F	
<b>PGC 70445</b>	<b>Peg</b>	<b>Galaxy S?</b>
Oct 15 2006 31"	19mmW VF,PS,OVAL,NND,AV,R=F	
<b>PGC 70463</b>	<b>Peg</b>	<b>Galaxy Sb-c</b>
Oct 15 2006 31"	19mmW CF,CS,EON,NND,R=F	
<b>PGC 70537</b>	<b>Peg</b>	<b>Galaxy SBb/Sb</b>
Oct 15 2006 31"	19mmW VF,PS,OVAL,NND,AV,R=F	
<b>PGC 70598</b>	<b>And</b>	<b>Galaxy Compact</b>
Nov 03 2013 36"	17mmT4 VF,VS,OVAL,UB,NND,AV2,R=F	
<b>PGC 70842</b>	<b>Peg</b>	<b>Galaxy E?</b>
Oct 30 2008 31"	17mmT4 MF,MS,R,NND,R=F	
<b>PGC 71054</b>	<b>Peg</b>	<b>Galaxy S</b>
Nov 03 2013 36"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 71080</b>	<b>Peg</b>	<b>Galaxy S?</b>
Nov 03 2013 36"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 71085</b>	<b>Peg</b>	<b>Galaxy Dwarf?</b>
Nov 03 2013 36"	17mmT4 VF,VS,OVAL,PEXT,UB,NND,AV2,R=F	
<b>PGC 71092</b>	<b>Peg</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>Peg</b>	<b>Galaxy Sc-Irr</b>
Nov 02 2010 31"	17mmT4 VF,VS,OVAL,UB,NND,R=F,AV4	
<b>PGC 71101</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 PF,CS,OVAL,FNUC,R=F	
<b>PGC 71119</b>	<b>Peg</b>	<b>Galaxy S?</b>
Nov 02 2010 31"	17mmT4 CF,VS,OVAL,UB,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 71120</b>	<b>Psc</b>	<b>Galaxy Sm:</b>
Nov 03 2013 36"	17mmT4 VF,CS,R,UB,NND,AV3,R=P	
<b>PGC 71156</b>	<b>Peg</b>	<b>Galaxy</b>
Nov 02 2010 31"	17mmT4 CF,ES,R,UB,NND,R=F	
<b>PGC 71299</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 CF,CS,OVAL,NND,R=F	
<b>PGC 71315</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 CF,CS,R,NND,AV,R=F	
<b>PGC 71317</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,VS,OVAL,NND,R=F	
<b>PGC 71319</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 F,CS,OVAL,NND,R=F	
<b>PGC 71320</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>PGC 71322</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 EF,ES,R,NND,AV,R=F	
<b>PGC 71323</b>	<b>Peg</b>	<b>Galaxy Sc</b>
Oct 25 2006 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 71324</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 CF,PS,OVAL,FNUC,R=F	
<b>PGC 71326</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,PS,R,NND,AV,R=F	
<b>PGC 71327</b>	<b>Peg</b>	<b>Galaxy E</b>
Oct 25 2006 31"	17mmT4 EF,ES,R,AV,R=F	
<b>PGC 71330</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,CS,OVAL,NND,AV,R=F	
<b>PGC 71331</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,PS,R,NND,R=F	
<b>PGC 71332</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 PF,CS,OVAL,NND,R=F	
<b>PGC 71337</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 VF,PS,R,NND,R=F	

# Observations Listing by Catalog Number

<b>PGC 71342</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 CF,PS,R,NND,R=F	
<b>PGC 71355</b>	<b>Peg</b>	<b>Galaxy SB?</b>
Oct 25 2006 31"	17mmT4 CF,L,OVAL,PATCHY,NND,R=F	
<b>PGC 71359</b>	<b>Peg</b>	<b>Galaxy SBab</b>
Oct 25 2006 31"	17mmT4 PF,L,OVALNND,R=F	
<b>PGC 71368</b>	<b>And</b>	<b>Galaxy Sdm</b>
Aug 24 2012 18"	5mm TV VF,PS,R,UB,NND,AV2,R=F	
<b>PGC 71371</b>	<b>Peg</b>	<b>Galaxy L</b>
Oct 25 2006 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 71374</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 PF,PS,OVAL,NND,R=F	
<b>PGC 71386</b>	<b>Peg</b>	<b>Galaxy S0/a</b>
Oct 25 2006 31"	17mmT4 PB,PS,EON,FNUC,MHISB,R=G	
<b>PGC 71398</b>	<b>Peg</b>	<b>Galaxy</b>
Oct 25 2006 31"	17mmT4 PF,L,R,NND,R=F	
<b>PGC 71752</b>	<b>Psc</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	
<b>PGC 72179</b>	<b>Peg</b>	<b>Galaxy S?</b>
Nov 03 2013 36"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
<b>PGC 72341</b>	<b>Peg</b>	<b>Galaxy C</b>
Nov 03 2013 36"	17mmT4 PF,VS,OVAL,UB,NND,R=F	
<b>PGC 72346</b>	<b>Peg</b>	<b>Galaxy Sd</b>
Nov 03 2013 36"	17mmT4 VF,VS,R,UB,NND,R=F	
<b>PK 21-0.1</b>	<b>Sct</b>	<b>Planetary Neb 2+3</b>
Aug 13 2007 31"	31mmT5 PF,VS,R=F, CENTRAL STAR NOT VISIBLE	
<b>PK 006+02.5</b>	<b>Sgr</b>	<b>Invalid Type</b>
Aug 02 2019 12"	17mm O PF,VS,R=F. OIII	
<b>PK 64+5.1</b>	<b>Cyg</b>	<b>Planetary Neb 4</b>
Aug 24 2005 8"	7.5mmW VF,VS,R,AV,R=F	
<b>PK 158+17.1</b>	<b>FIX</b>	<b>Planetary Neb 3</b>
Feb 20 2006 31"	17mmT4 DIFF,VS,R=F, OIII FILTER	



# Observations Listing by Catalog Number

<b>PK 318+41.1</b>	<b>Vir</b>	<b>Planetary Neb 3b+3a</b>
Jun 07 2010 12"	9mm	CF,PL,PATCHY, NO CENTRAL STAR DETECTED,R=P
<b>PK 353-04.1</b>	<b>Sco</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>STOCK 2</b>	<b>Cas</b>	<b>Open Cluster I 2 m</b>
Dec 05 2015 12"	17mmT4	
Oct 13 2006 1.9"	12x50	B,PL,R=F
Dec 31 2003 8"	25mmPL	H/M COLD
<b>STOCK 23</b>	<b>Cam</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
<b>STOCK 24</b>	<b>Cas</b>	<b>Open Cluster</b>
Jul 26 2019 12"	17mm O	F,S,R=F
<b>TER 2</b>	<b>Sco</b>	<b>Globular</b>
Oct 29 2006 8"	19mmW	PF,PS,LOOSE,R=F
<b>TER 3</b>	<b>Sco</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>TER 8</b>	<b>Sgr</b>	<b>Globular</b>
Jul 31 2005 8"	11mmT6	VF,VS,R,LOWSB,R=F
<b>TER 9</b>	<b>Sgr</b>	<b>Globular</b>
Aug 06 2010 28"	26mm	PF,PS,SMUDGE, NO STARS RESOLVED
<b>TON 2</b>	<b>Sco</b>	<b>Globular</b>
Sep 02 2019 12"	11mmT6	PF,PS,AV2,R=P
<b>TR 26</b>	<b>Oph</b>	<b>Open Cluster</b>
Aug 02 2019 12"	7mm TV	PF,PS,LOOSE,R=F
<b>TR 32</b>	<b>Ser</b>	<b>Open Cluster</b>
Aug 02 2019 12"	7mm TV	PF,PS,R=P
<b>UGC 12914</b>	<b>Peg</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>Peg</b>	<b>Galaxy</b>
Sep 09 2010 12"	5.5mmN	CF,CS,OVAL,MET,UB,NND,R=F,PA=20,PAIRED W/UGC 12914

## Observations Listing by Catalog Number

<b>WINN 4</b>	<b>UMa</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	
Dec 30 2003 8"	25mmPL	H/M COLD	