

# Circumpolar Observations

<b>IC</b>	<b>10</b>	<b>Cas</b>		<b>Galaxy IBm</b>
	Oct 05 2016	12"	11mmT6	PF,S,OVAL,DIFF,NND,R=F
	Nov 11 2009	12"	7.5mmW	VF,PS,R,NND,AV,R=F
	Oct 25 2009	12"	11mmT6	F,PS,OVAL,NND,AV,R=F
	Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST
<b>IC</b>	<b>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>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>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>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>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>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
<b>IC</b>	<b>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</b>	<b>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</b>	<b>396</b>	<b>Cam</b>		<b>Galaxy S?</b>
	Oct 12 2012	18"	7mm TV	PF,PS,OVAL,FNUC,R=F
<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

# Circumpolar Observations

<b>IC 445</b>	<b>Cam</b>	<b>Galaxy S0?</b>	
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F
<b>IC 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 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 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 455</b>	<b>Cep</b>	<b>Galaxy S0</b>	
Nov 16 2012	18"	5mm TV	VF,VS,OVAL,NND,R=F
<b>IC 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 459</b>	<b>Lyn</b>	<b>Galaxy C</b>	
Feb 01 2005	31"	17mmT4	VF,OVAL,NND,AV,R=F
<b>IC 460</b>	<b>Lyn</b>	<b>Galaxy</b>	
Feb 01 2005	31"	17mmT4	VF,MS,EL,NND,LSB,R=F
<b>IC 461</b>	<b>Lyn</b>	<b>Galaxy S</b>	
Feb 01 2005	31"	17mmT4	MF,OVAL,NND,R=F
<b>IC 464</b>	<b>Lyn</b>	<b>Galaxy E?</b>	
Feb 01 2005	31"	17mmT4	MB,S,EON,OVAL,NND,R=G
<b>IC 465</b>	<b>Lyn</b>	<b>Galaxy S?</b>	
Feb 01 2005	31"	17mmT4	MB,MS,EL,FNUC,MSB,R=G
<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 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 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 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 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

# Circumpolar Observations

<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 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	
<b>IC 836</b>	<b>Dra</b>		<b>Galaxy S</b>	
Feb 23 2006	31"	17mmT4	PB,PL,EON,FNUC,HISB,R=G	
<b>NGC 1184</b>	<b>Cep</b>	<b>H704-2</b>	<b>Galaxy S0/a</b>	<b>F,PL,ME</b>
Nov 13 2007	8"	11mmT6	VF,VS,OVAL,NND,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 1469</b>	<b>Cam</b>		<b>Galaxy SA0-:</b>	<b>VF,VS,R,B*NR</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=F,PA=45	
<b>NGC 1485</b>	<b>Cam</b>		<b>Galaxy SAB? sp</b>	<b>EF,PS,R</b>
Oct 12 2012	18"	7mm TV	PF,PS,OVAL,EEXT,UB,NND,R=F,PA=160	
<b>NGC 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 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 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 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 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 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	

# Circumpolar Observations

<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 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 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 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 2276</b>	<b>Cep</b>		<b>Galaxy SAB(rs)c</b>	<b>F,60",LBM</b>
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
<b>NGC 2300</b>	<b>Cep</b>		<b>Galaxy SA0^</b>	<b>PB,PL,LE,BM</b>
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
<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 2320</b>	<b>Lyn</b>		<b>H861-2 Galaxy E</b>	<b>PB,S,IR,GBM,*8SP</b>
Nov 10 2012	18"	7mm TV	PF,PS,OVAL,FNUC,R=F	
<b>NGC 2321</b>	<b>Lyn</b>		<b>Galaxy SBa</b>	<b>VF,12'N OF2320</b>
Nov 10 2012	18"	7mm TV	VF,PS,OVAL,UB,NND,AV2,R=F	
<b>NGC 2322</b>	<b>Lyn</b>		<b>H874-3 Galaxy SBa:</b>	<b>VF,VS,LE</b>
Nov 10 2012	18"	7mm TV	PF,VS,OVAL,VEXT,HSB,R=G	
<b>NGC 2326</b>	<b>Lyn</b>		<b>H734-2 Galaxy SB(rs)b</b>	<b>VF,PL,IR,PSMBM,ST P</b>
Nov 10 2012	18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 2326A</b>	<b>Lyn</b>		<b>Galaxy SA(s)m:</b>	
Nov 10 2012	18"	7mm TV	VF,VS,OVAL,UB,NND,AV2,R=F	
<b>NGC 2332</b>	<b>Lyn</b>		<b>H862-2 Galaxy S0:</b>	<b>F,S,R,PSBM</b>
Nov 10 2012	18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 2336</b>	<b>Cam</b>		<b>Galaxy SAB(r)bc</b>	<b>PB,PL,R,2*11NR</b>
Oct 12 2012	18"	7mm TV	F,S,OVAL,MEXT,UB,NND,R=F	

# Circumpolar Observations

<b>NGC 2340</b>	<b>Lyn</b>		<b>H736-2</b>	<b>Galaxy E</b>	<b>PF,S,R,GLBM,R</b>
Nov 16 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Feb 01 2005	31"	17mmT4	MB,ML,EL,OVAL,FNUC,MSB,R=G		
<b>NGC 2347</b>	<b>Cam</b>		<b>H746-3</b>	<b>Galaxy (R')SA(r)b:</b>	<b>VF,S,R,LBM</b>
Feb 01 2005	31"	17mmT4	VB,ML,OVAL,SNUC,HISB,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 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 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 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 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 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		
<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 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		

# Circumpolar Observations

<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 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 2488</b>	<b>Lyn</b>		<b>H837-3 Galaxy S0-:</b>	<b>VF,VS,R,GLBM</b>
Nov 10 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 2497</b>	<b>Lyn</b>		<b>H838-3 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 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 Galaxy SBa</b>	<b>EF,VS</b>
Nov 10 2012	18"	7mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F,PA=90	
<b>NGC 2518</b>	<b>Lyn</b>		<b>Galaxy E-S0</b>	<b>2NEB,F,L,R,GBM</b>
Nov 10 2012	18"	7mm TV	VF,PS,OVAL,UB,NND,AV1,R=F	
<b>NGC 2521</b>	<b>Lyn</b>		<b>Galaxy SA0- pec?</b>	<b>PF,PL,R,PSBM,*9NP3'</b>
Nov 10 2012	18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 2523</b>	<b>Cam</b>		<b>Galaxy SB(r)bc</b>	<b>PB,PL,LE,LBM,*NR</b>
Oct 12 2012	18"	7mm TV	DIFF,PF,S,OVAL,UB,NND,R=F	
<b>NGC 2523A</b>	<b>Cam</b>		<b>Galaxy SB(s)c:</b>	
Oct 12 2012	18"	7mm TV	VS,VS,OVAL,UB,NND,AV3,R=P	
<b>NGC 2523B</b>	<b>Cam</b>		<b>Galaxy SA(s)b: sp</b>	
Oct 12 2012	18"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=185	
<b>NGC 2523C</b>	<b>Cam</b>		<b>Galaxy E?</b>	
Oct 12 2012	18"	7mm TV	PF,VS,OVAL,UB,NND,R=F	
<b>NGC 2534</b>	<b>Lyn</b>		<b>H840-3 Galaxy E1? pec</b>	<b>PF,PL,R,PSBM,*8S</b>
Nov 10 2012	18"	7mm TV	PF,PS,R,FNUC,R=F	
<b>NGC 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 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	

# Circumpolar Observations

<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 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 2591</b>	<b>Cam</b>		<b>Galaxy Scd: sp</b>	<b>F,S,E,LBM</b>
May 25 2014	18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=30	
Nov 16 2012	18"	7mm TV	VF,VS,EON,UB,NND,R=G	
<b>NGC 2633</b>	<b>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 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 2655</b>	<b>Cam</b>		<b>H288-1 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 2681</b>	<b>UMa</b>		<b>H242-1 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 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 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 2742</b>	<b>UMa</b>		<b>H249-1 Galaxy SA(s)c:</b>	<b>CB,CL,E90,ER</b>
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,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 2756</b>	<b>UMa</b>		<b>H828-2 Galaxy Sb</b>	<b>PB,PS,E,VGBM</b>
Mar 28 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=F	

# Circumpolar Observations

<b>NGC 2768</b>	<b>UMa</b>		<b>H250-1</b>	<b>Galaxy E6:</b>	<b>CB,CL,LE,PSBMLBN</b>
Mar 04 2006	8"	11mmT6	MB,ML,OVAL,NND,R=F		
<b>NGC 2787</b>	<b>UMa</b>		<b>H216-1</b>	<b>Galaxy SB(r)0+</b>	<b>B,PL,LE90,MBM,R,*INV</b>
Mar 04 2006	8"	11mmT6	F,PS,R,NND,R=F		
<b>NGC 2805</b>	<b>UMa</b>		<b>H878-3</b>	<b>Galaxy SAB(rs)d</b>	<b>VF,L,R,MBM</b>
Jun 07 2010	12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 2841</b>	<b>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 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 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 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 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 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		
<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 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 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>
Aug 31 2010	12"	7mm TV	VF,VS,OVAL,MEXT,PATCH,NND,R=F. PA=110		
<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		



# Circumpolar Observations

NGC 3031	UMa	M81	Galaxy SA(s)ab	EB,EL,E156,GSVMBMBN 2
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	

NGC 3034	UMa	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
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		

NGC 3057	Dra	H978-3	Galaxy SB(s)dm	EF,PL,VLBM,2S* S
Sep 09 2010	12"	5.5mmN	VF,CS,OVAL,R,NND,AV,R=P	

  

NGC 3061	Dra	H903-2	Galaxy (R')SB(rs)c	VF,PL,RESOLVABLE
Sep 09 2010	12"	5.5mmN	VF,CS,R,NND,AV,R=F	

  

NGC 3065	UMa	H333-2	Galaxy SA(r)0^	PF,VS,R,BM,*11NR
Mar 28 2011	12"	5mm TV	VF,PS,R,UB,NND,AV,R=F	

# Circumpolar Observations

<b>NGC 3073</b>	<b>UMa</b>		<b>H853-3</b>	<b>Galaxy SAB0-</b>	<b>VF,S,VGLBM</b>
Mar 28 2011	12"	5mm TV	VF,VS,R,UB,NND,AV,R=F		
<b>NGC 3077</b>	<b>UMa</b>		<b>H286-1</b>	<b>Galaxy I0 pec</b>	<b>CB,CL,MBM,R WITH RAY</b>
Mar 13 2007	8"	11mmT6	PF,L,OVAL,NND,AV,R=F		
May 24 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 3079</b>	<b>UMa</b>		<b>H47-5</b>	<b>Galaxy SB(s)c sp</b>	<b>VB,L,ME135</b>
Mar 04 2006	8"	11mmT6	PF,FL,EON,NND,R=F		
<b>NGC 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 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 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 3206</b>	<b>UMa</b>		<b>H266-1</b>	<b>Galaxy SB(s)cd</b>	<b>PB,CL,E,VGLBM</b>
Apr 09 2010	12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
<b>NGC 3212</b>	<b>Dra</b>		<b>H980-3</b>	<b>Galaxy SB?</b>	<b>VF,S,2ND OF 3</b>
Jul 13 2013	18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F,PAIRED W/NGC-3215		
<b>NGC 3215</b>	<b>Dra</b>		<b>H981-3</b>	<b>Galaxy S?</b>	<b>VF,S,3RD OF 3</b>
Jul 13 2013	18"	7mm TV	VF,PS,PEXT,UB,NND,R=F,PAIRED W/NGC-3212		
<b>NGC 3218</b>	<b>Dra</b>		<b>H283-1</b>	<b>Galaxy SB(s)bc:</b>	<b>CB,CL,ER,</b>
Aug 25 2011	12"	5mm TV	F,VS,OVAL,MEXT,UB,NND,AV1,R=P		
<b>NGC 3225</b>	<b>UMa</b>		<b>H882-2</b>	<b>Galaxy Scd:</b>	<b>CF,PL,LE,VGBM</b>
Mar 28 2011	12"	5mm TV	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 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 3310</b>	<b>UMa</b>		<b>H60-4</b>	<b>Galaxy SAB(r)bc pec</b>	<b>CB,PL,R,VG,VSMBMM</b>
Mar 13 2007	8"	11mmT6	CB,PS,R,FNUC,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 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 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		

## Circumpolar Observations

<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 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 3435</b>	<b>UMa</b>		<b>H887-2</b>	<b>Galaxy Sb</b>	<b>CF,PS,LE,VGBM</b>
May 30 2014	18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 3440</b>	<b>UMa</b>		<b>H914-3</b>	<b>Galaxy SBb? sp</b>	<b>VF,S,LE</b>
May 30 2014	18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=50		
<b>NGC 3445</b>	<b>UMa</b>		<b>H267-1</b>	<b>Galaxy SAB(s)m</b>	<b>CB,PL,IR,VGLBM,*NF2'</b>
May 30 2014	18"	8mm Ds	PFL,PS,R,UB,NND,R=F		
<b>NGC 3448</b>	<b>UMa</b>		<b>H233-1</b>	<b>Galaxy I0</b>	<b>B,PL,ME67,GBM</b>
Apr 09 2010	12"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 3458</b>	<b>UMa</b>		<b>H268-1</b>	<b>Galaxy SAB0:</b>	<b>VB,VS,R,STELLAR</b>
Apr 09 2010	12"	11mmT6	PB,CS,R,BNUC,R=G		
<b>NGC 3471</b>	<b>UMa</b>		<b>H972-3</b>	<b>Galaxy Sa</b>	<b>VF,S,R,BM</b>
Apr 09 2010	12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 3516</b>	<b>UMa</b>		<b>H336-2</b>	<b>Galaxy (R)SB(s)0^:</b>	<b>PB,VS,IR,PSMBM*</b>
Jul 14 2010	12"	7.5mmW	PF,CS,OVAL,FNUC,R=F		
<b>NGC 3523</b>	<b>Dra</b>		<b>H904-2</b>	<b>Galaxy Sbc</b>	<b>F,PL,LBM,</b>
Jul 13 2013	18"	7mm TV	VF,PS,R,UB,NND,AV,R=F		
Feb 23 2006	31"	17mmT4	DIFF,B,ML,R,NND,R=F		
<b>NGC 3556</b>	<b>UMa</b>	<b>M108</b>	<b>H46-5</b>	<b>Galaxy SB(s)cd sp</b>	<b>CB,VL,VME79,PBM,R</b>
Jul 15 2015	12"	17mmT4			
May 23 2015	12"	11mmT6			
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007	1.9"	12x50	F,S,EON,NND,R=F		
Aug 20 2006	1.9"	12x50	PF,PS,OVAL,NND,R=F		
Mar 19 2006	8"	19mmW	FB,FL,EL,EON,RNUC,R=G		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003	8"	25mmPL	Q/M COLD		
<b>NGC 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 3610</b>	<b>UMa</b>		<b>H270-1</b>	<b>Galaxy E5:</b>	<b>VB,PS,LE90,VSVMBMSN</b>
Mar 17 2007	8"	11mmT6	PB,S,R,BNUC,R=G		
Mar 13 2007	8"	11mmT6	PF,PS,R,NND,R=F		

# Circumpolar Observations

<b>NGC 3613</b>	<b>UMa</b>		<b>H271-1</b>	<b>Galaxy E6</b>	<b>VB,CL,ME305,SMBMN</b>
Mar 17 2007	8"	11mmT6	F,PS,OVAL,FNUC,R=G		
<b>NGC 3619</b>	<b>UMa</b>		<b>H244-1</b>	<b>Galaxy (R)SA(s)0+:</b>	<b>CB,CL,R,VGMBM</b>
Mar 17 2007	8"	11mmT6	F,PS,R,NND,R=F		
<b>NGC 3622</b>	<b>UMa</b>		<b>H879-2</b>	<b>Galaxy S?</b>	<b>PB,S,R,GBM</b>
Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,AV,R=F		
<b>NGC 3631</b>	<b>UMa</b>		<b>H226-1</b>	<b>Galaxy SA(s)c</b>	<b>PB,L,R,SVMBMRN</b>
Mar 17 2007	8"	11mmT6	B,PL,R,FNUC,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>
Mar 17 2007	8"	11mmT6	F,PL,OVAL,NND,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		
<b>NGC 3656</b>	<b>UMa</b>		<b>H782-2</b>	<b>Galaxy (R')I0: pec</b>	<b>PB,S,R,VGBM,*12P</b>
May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F		
<b>NGC 3657</b>	<b>UMa</b>		<b>H768-3</b>	<b>Galaxy SAB(rs)c pec</b>	<b>CF,VS,R,STELLAR</b>
May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F		
<b>NGC 3668</b>	<b>UMa</b>		<b>H845-2</b>	<b>Galaxy Sbc</b>	<b>F,PS,IR,GBM,*9NP</b>
Jul 14 2010	12"	7.5mmW	VF,CS,R,UB,NND,AV,R=F		
<b>NGC 3669</b>	<b>UMa</b>		<b>H829-2</b>	<b>Galaxy SBcd: sp</b>	<b>VF,PL,PME135,ER</b>
Jul 14 2010	12"	7.5mmW	VF,CS,EON,UB,NND,AV,R=P		
<b>NGC 3674</b>	<b>UMa</b>		<b>H886-2</b>	<b>Galaxy S0 sp</b>	<b>PF,IF</b>
May 30 2014	18"	8mm Ds	PF,PS,OVAL,EEXT,UB,NND,R=F,PA=25		
<b>NGC 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 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 3718</b>	<b>UMa</b>		<b>H221-1</b>	<b>Galaxy SB(s)a pec</b>	<b>PB,VL,R,VGLBM</b>
May 23 2012	18"	8.8 ES	F,S,OVAL,MEXT,UB,NND,R=F		
Feb 23 2006	31"	17mmT4	VB,VL,OVAL,BNUC,HISB,R=G		
<b>NGC 3729</b>	<b>UMa</b>		<b>H222-1</b>	<b>Galaxy SB(r)a pec</b>	<b>PB,PL,LE0,GBM,*12NR</b>
Feb 23 2006	31"	17mmT4	FB,FL,R,BNUC,HISB,R=G		
<b>NGC 3735</b>	<b>Dra</b>		<b>H287-1</b>	<b>Galaxy SAc: sp</b>	<b>PB,L,ME130,MBM</b>
Aug 31 2010	12"	7mm TV	CF,PS,EON,UB,NND,R=F. PA=90		
Aug 29 2010	12"	7mm TV	CF,PS,EON,UB,NND,R=F. PA=90		

# Circumpolar Observations

<b>NGC 3736</b>	<b>Dra</b>		<b>Galaxy Sb</b>	<b>VF,VS,R</b>
Jul 13 2013	18"	7mm TV	PF,PS,OVAL,NND,AV,R=F	
<b>NGC 3738</b>	<b>UMa</b>		<b>H783-2 Galaxy Im</b>	<b>PB,PL,BM</b>
Jun 22 2012	18"	8.8 ES	B,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 3752</b>	<b>Dra</b>		<b>H905-2 Galaxy Sab</b>	<b>PB,PL</b>
Jul 13 2013	18"	7mm TV	PF,PS,OVAL,MEXT,NND,R=F	
<b>NGC 3756</b>	<b>UMa</b>		<b>H784-2 Galaxy SAB(rs)bc</b>	<b>PF,L,LE</b>
Mar 01 2011	12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC 3879</b>	<b>Dra</b>		<b>H881-2 Galaxy Sdm:</b>	<b>F,PL,ME105</b>
Feb 23 2006	31"	17mmT4	FB,FL,EON,FNUC,MSB,R=G	
<b>NGC 3888</b>	<b>UMa</b>		<b>H785-2 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 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 3898</b>	<b>UMa</b>		<b>H228-1 Galaxy SA(s)ab</b>	<b>B,PL,LE,SVMBM</b>
Mar 17 2007	8"	11mmT6	PB,PS,OVALFNUC,R=G	
<b>NGC 3901</b>	<b>Cam</b>		<b>H970-3 Galaxy Scd:</b>	<b>PF,PL,RESOLVABLE</b>
May 25 2014	18"	8mm Ds	VF,PS,OVAL,VEXT,UB,NND,R=F	
<b>NGC 3945</b>	<b>UMa</b>		<b>H251-1 Galaxy (R)SB(rs)0+</b>	<b>B,PL,R,GMBM,R,*12SP</b>
Mar 17 2007	8"	11mmT6	PF,S,OVAL,NND,R=F	
<b>NGC 3953</b>	<b>UMa</b>		<b>H45-5 Galaxy SB(r)bc</b>	<b>CB,L,E0,VSMBLRN</b>
Mar 18 2007	8"	11mmT6	PB,PL,EL,OVAL,FNUC,MSB,R=G	
<b>NGC 3961</b>	<b>Dra</b>		<b>H905-3 Galaxy (R)SB(r)a:</b>	<b>EF,VS</b>
Jul 13 2013	18"	7mm TV	VF,VS,OVAL,NND,AV2,R=F	
Feb 23 2006	31"	17mmT4	FB,FL,OVALM,FNUC,MSB,R=G	
<b>NGC 3982</b>	<b>UMa</b>		<b>H62-4 Galaxy SAB(r)b:</b>	<b>B,PL,R,G,SBM,DISC</b>
Mar 18 2007	8"	11mmT6	PF,L,OVAL,NND,=F	
<b>NGC 3992</b>	<b>UMa</b>	<b>M109</b>	<b>H61-4 Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SBMBRN</b>
Jul 15 2015	12"	17mmT4		
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	F,FS,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 09 2004	8"	25mmPL	COMPTER = ARGO NAVIS	

# Circumpolar Observations

<b>NGC 3998</b>	<b>UMa</b>		<b>H229-1</b>	<b>Galaxy SA(r)0<sup>^</sup>?</b>	<b>CB,PS,R,VG,SMBM</b>
Mar 18 2007	8"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G		
<b>NGC 4026</b>	<b>UMa</b>		<b>H223-1</b>	<b>Galaxy S0 sp</b>	<b>VB,CL,ME176,VSVMBMBN</b>
Mar 18 2007	8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G		
<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 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 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 4085</b>	<b>UMa</b>		<b>H224-1</b>	<b>Galaxy SAB(s)c:?</b>	<b>B,PL,ME78,VSBM</b>
Mar 18 2007	8"	11mmT6	VF,PS,EL,EON,NND,AV,R=F		
<b>NGC 4088</b>	<b>UMa</b>		<b>H206-1</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,CL,E55,LBM</b>
Mar 18 2007	8"	11mmT6	PF,L,EON,UB,NND,R=F		
<b>NGC 4102</b>	<b>UMa</b>		<b>H225-1</b>	<b>Galaxy SAB(s)b?</b>	<b>B,PS,R,BMBN,*12SPVNR</b>
Mar 18 2007	8"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F		
<b>NGC 4108</b>	<b>Dra</b>			<b>Galaxy (R')SAc:</b>	<b>B,S,R,GBM</b>
Aug 31 2010	12"	7mm TV	VF,CS,OVAL,NND,AV,R=F. PA=90??		
<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 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>
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 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 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		

# Circumpolar Observations

<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 4210</b>	<b>Dra</b>		<b>H850-3 Galaxy SB(r)b</b>	<b>PF,PS,R,VGBM</b>
Aug 31 2010	12"	7mm TV	VF,PS,R,NND,R=F	
<b>NGC 4221</b>	<b>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 4236</b>	<b>Dra</b>		<b>H51-5 Galaxy SB(s)dm</b>	<b>VF,EL,ME160,VGBM</b>
Sep 01 2005	8"	7.5mmW	MF,ML,NND,LSB,R=F	
<b>NGC 4250</b>	<b>Dra</b>		<b>H264-1 Galaxy SAB(r)0+</b>	<b>PB,S,R,PGBM</b>
Aug 12 2010	12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Aug 06 2010	12"	7mm TV	PF,CS,OVAL,UB,NND,R=F	
<b>NGC 4256</b>	<b>Dra</b>		<b>H846-2 Galaxy SA(s)b: sp</b>	<b>PB,L,CE38,BMBN</b>
Aug 31 2010	12"	7mm TV	PF,PS,EON,FNUC,MSB,R=F. PA=170	
Jul 16 2009	16"	11mmT6	PS,EON,NND,R=F	
<b>NGC 4271</b>	<b>UMa</b>		<b>H804-2 Galaxy S0-:</b>	<b>PB,PL,IF</b>
Mar 28 2011	12"	5mm TV	PF,VS,OVAL,VFNUC,R=F	
<b>NGC 4290</b>	<b>UMa</b>		<b>H805-2 Galaxy SB(rs)ab:</b>	<b>PB,L,R,GMBM</b>
Mar 01 2011	12"	11mmT6	CF,CS,OVAL,UB,NND,R=F	
<b>NGC 4291</b>	<b>Dra</b>		<b>H275-1 Galaxy E</b>	<b>PB,VS,R,LBM,3*F</b>
Apr 17 2015	18"	8mm Ds	F,S,ROUND,UB,NND,R=F	
Jul 14 2010	12"	7.5mmW	PF,CS,OVAL,FNUC,MSB,R=F	
<b>NGC 4319</b>	<b>Dra</b>		<b>H276-1 Galaxy SB(r)ab</b>	<b>PB,PS,VLE,SBM</b>
Jul 14 2010	12"	7.5mmW	CF,PS,R,UB,LSB,R=F	
<b>NGC 4332</b>	<b>Dra</b>		<b>H847-2 Galaxy SB(s)a</b>	<b>PF,S,VLE,VGBM</b>
Jul 14 2010	12"	7.5mmW	CF,PS,OVAL,UB,NND,R=F	
<b>NGC 4386</b>	<b>Dra</b>		<b>H277-1 Galaxy SAB0^:</b>	<b>PB,CL,LE,PSMBM</b>
Jul 14 2010	12"	7.5mmW	PF,CS,OVAL,MEXT,FNUC,R=F	
<b>NGC 4391</b>	<b>Dra</b>		<b>H852-3 Galaxy SA0-:</b>	<b>CF,S,R,SBM,***SP</b>
Jul 14 2010	12"	7.5mmW	CF,VS,R,UB,NND,R=F	
<b>NGC 4441</b>	<b>Dra</b>		<b>H848-2 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 4512</b>	<b>Dra</b>		<b>Galaxy SB(s)dm</b>	<b>PB,S,R,PSBM</b>
Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,UB,NND,AV,R=P	
<b>NGC 4521</b>	<b>Dra</b>		<b>H849-2 Galaxy S0/a</b>	<b>PB,S,PME,PGBM,*P12S</b>
Aug 31 2010	12"	7mm TV	CF,PS,EON,UB,NND,R=G. PA=195	
<b>NGC 4545</b>	<b>Dra</b>		<b>H850-2 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	

# Circumpolar Observations

<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 4589</b>	<b>Dra</b>		<b>H273-1</b>	<b>Galaxy E2</b>	<b>CB,L,LE,PGMBM</b>
Feb 23 2006	31"	17mmT4	VB,FL,OVAL,BNUC,HISB,R=G		
<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 4648</b>	<b>Dra</b>		<b>H274-1</b>	<b>Galaxy E3</b>	<b>PB,CS,R,GBM,**P</b>
Feb 23 2006	31"	17mmT4	VB,FL,OVAL,BNUC,HISB,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 4749</b>	<b>Dra</b>		<b>H907-3</b>	<b>Galaxy Sb? sp</b>	<b>VF,CL,E135</b>
Feb 23 2006	31"	17mmT4	MB,ML,EON,UB,NND,R=G		
<b>NGC 4750</b>	<b>Dra</b>		<b>H78-4</b>	<b>Galaxy (R)SA(rs)ab</b>	<b>PB,L,R,VG,VSBM</b>
Feb 23 2006	31"	17mmT4	VB,VL,R,BNUC,HISB,R=G		
<b>NGC 4857</b>	<b>Dra</b>		<b>H908-3</b>	<b>Galaxy SABb</b>	<b>EF,VS,IR,VLBM</b>
Feb 23 2006	31"	17mmT4	PB,FL,OVAL,FNUC,MSB,R=G		
<b>NGC 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 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		
<b>NGC 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 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 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 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 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		



# Circumpolar Observations

<b>NGC 5457</b>	<b>UMa</b>	<b>M101</b>	<b>Galaxy SAB(rs)cd</b>	<b>PB,VL,IR,G,VSMBMSN 4</b>
Jul 15 2015	12"	17mmT4		
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006	1.9"	12x50	F,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	F,L,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
<b>NGC 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 5520</b>	<b>Boo</b>	<b>H676-3</b>	<b>Galaxy Sb</b>	<b>F,S,LE,STELLAR</b>
Apr 29 2011	12"	7mm TV	PF,PS,OVAL,MEXT,FNUC,R=F	
May 21 2009	16"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
<b>NGC 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 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 5631</b>	<b>UMa</b>	<b>H236-1</b>	<b>Galaxy SA(s)0^</b>	<b>B,S,R,PSBMN</b>
Mar 18 2007	8"	11mmT6	CF,CS,R,NND,R=F	
<b>NGC 5640</b>	<b>Cam</b>	<b>H949-3</b>	<b>Galaxy Ia</b>	<b>EF,S,LE</b>
May 25 2014	18"	8mm Ds	VF,VS,R,UB,NND,AV3,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 5678</b>	<b>Dra</b>	<b>H237-1</b>	<b>Galaxy SAB(rs)b</b>	<b>B,L,LE0,VGMBM</b>
Aug 06 2010	12"	7mm TV	PF,PS,OVAL,UB,MSB,R=F	

# Circumpolar Observations

<b>NGC 5687</b>	<b>Boo</b>		<b>H808-2</b>	<b>Galaxy S0-?</b>	<b>PF,S,IF,RESOLVA,*10F</b>
Aug 03 2008	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 5777</b>	<b>Dra</b>		<b>H806-3</b>	<b>Galaxy Sb</b>	<b>VF,VS,LE</b>
May 23 2012	18"	11mmT6	PF,PS,EON,UB,NND,R=F, PA=100		
<b>NGC 5832</b>	<b>UMi</b>		<b>H332-2</b>	<b>Galaxy SB(rs)b?</b>	<b>PB,CL,IR,BP,R</b>
Sep 02 2016	12"	8mm Et	VF,PS,OVAL,AV1,R=P		
<b>NGC 5866</b>	<b>Dra</b>	<b>M102</b>	<b>H215-1</b>	<b>Galaxy SA0+ sp</b>	<b>VB,CL,PME146,GBM</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 26 2006	8"	19mmW	B,S,OVAL,FNUC,MSB,R=F		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
<b>NGC 5879</b>	<b>Dra</b>		<b>H757-2</b>	<b>Galaxy SA(rs)bc:?</b>	<b>CB,S,E,MBMRN,R</b>
Aug 12 2010	12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Aug 06 2010	12"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=G		
<b>NGC 5894</b>	<b>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 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 5907</b>	<b>Dra</b>		<b>H759-2</b>	<b>Galaxy SA(s)c: sp</b>	<b>CB,VL,VME155,VGPSBMN</b>
Jun 07 2010	12"	7.5mmW	PF,PL,EON,FNUC,FAINT BULGE,R=G		
Jul 23 2006	8"	11mmT6	PF,PS,EON,VFNUC,R=F		
<b>NGC 5908</b>	<b>Dra</b>		<b>H760-2</b>	<b>Galaxy SA(s)b: sp</b>	<b>PF,PS,R</b>
Aug 06 2010	12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5949</b>	<b>Dra</b>		<b>H906-2</b>	<b>Galaxy SA(r)bc?</b>	<b>F,S,LE45,VGLBM</b>
Aug 06 2010	12"	7mm TV	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 5963</b>	<b>Dra</b>		<b>H761-2</b>	<b>Galaxy S pec</b>	<b>PF,PS,IF</b>
Aug 06 2010	12"	7mm TV	PF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5965</b>	<b>Dra</b>		<b>H762-2</b>	<b>Galaxy Sb</b>	<b>CF,CL,LE</b>
Aug 06 2010	12"	7mm TV	CF,CS,EON,UB,NND,R=F		
<b>NGC 5981</b>	<b>Dra</b>			<b>Galaxy Sc? sp</b>	<b>F,ME</b>
Aug 15 2015	12"	8mm Ds	VF,VS,EON,UB,NND,AV1,R=P		
<b>NGC 5982</b>	<b>Dra</b>		<b>H764-2</b>	<b>Galaxy E3</b>	<b>CB,S,R,PSBM,R</b>
Aug 15 2015	12"	8mm Ds	F,PS,OVAL,FNUC,R=F		
Apr 13 2005	8"	11mmT6	VF,VS,OVAL,NND,R=F		

# Circumpolar Observations

<b>NGC 5985</b>	<b>Dra</b>		<b>H766-2</b>	<b>Galaxy SAB(r)b</b>	<b>PB,CL,IE,R</b>
Aug 15 2015	12"	8mm Ds	DIFF,PF,S,OVAL,UB,NND,R=F		
Sep 07 2005	8"	11mmT6	MB,ML,EL,OVAL,FNUC,MSB,R=G		
Apr 13 2005	8"	11mmT6	MB,ML,EL,OVAL,FNUC,R=G		
<b>NGC 5987</b>	<b>Dra</b>		<b>H765-2</b>	<b>Galaxy Sb</b>	<b>PF,CS</b>
Aug 06 2010	12"	7mm TV	PF,PS,OVAL,PEXT,FNUC,MSB,R=G		
<b>NGC 5989</b>	<b>Dra</b>		<b>H738-3</b>	<b>Galaxy Scd?</b>	<b>VF,VS</b>
Aug 15 2015	12"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 6015</b>	<b>Dra</b>		<b>H739-3</b>	<b>Galaxy SA(s)cd</b>	<b>VF,PL,R,VGBM</b>
Sep 07 2005	8"	11mmT6	VF,VS,EL,OVAL,NND,R=F		
<b>NGC 6048</b>	<b>UMi</b>		<b>H873-2</b>	<b>Galaxy E</b>	<b>F,R,BM</b>
Sep 02 2016	12"	8mm Et	PF,PS,OVAL,NND,R=F		
<b>NGC 6068</b>	<b>UMi</b>		<b>H973-3</b>	<b>Galaxy SBbc?</b>	<b>VF,VS,LE0,R</b>
Sep 02 2016	12"	8mm Et	VF,VS,OVAL,NNDL,AV,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 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 6140</b>	<b>Dra</b>		<b>H740-3</b>	<b>Galaxy SB(s)cd pec</b>	<b>CF,PL,IR</b>
Sep 07 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,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 6211</b>	<b>Dra</b>			<b>Galaxy SB(r)0<sup>^</sup> pec:</b>	<b>VF,PS,R,SP OF 2</b>
Sep 05 2010	12"	7mm TV	PF,PS,OVAL,FNUCC,R=F,PA=95		
<b>NGC 6217</b>	<b>UMi</b>		<b>H280-1</b>	<b>Galaxy (R)SB(rs)bc</b>	<b>B,CL,LE,SLBM</b>
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		
<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 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		

# Circumpolar Observations

<b>NGC 6236</b>	<b>Dra</b>		<b>Galaxy SAB(s)cd</b>	<b>F,PL</b>
Sep 05 2010	12"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F,PA=45	
<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 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 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	
<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 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 6324</b>	<b>UMi</b>		<b>H945-3 Galaxy S?</b>	<b>VF,S,E,S*S</b>
Sep 02 2016	12"	8mm Et	VF,VS,OVAL,NND,R=F	
<b>NGC 6338</b>	<b>Dra</b>		<b>H812-2 Galaxy S0</b>	<b>F,S,R,VGLBM</b>
Apr 29 2011	12"	5mm TV	VF,CS,OVAL,UB,NND,R=F	
<b>NGC 6340</b>	<b>Dra</b>		<b>H767-2 Galaxy SA(s)0/a</b>	<b>CF,PL,R,VGMBM</b>
Sep 07 2005	8"	11mmT6	MB,ML,R,FNUC,MSB,R=G	
<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 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 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 6395</b>	<b>Dra</b>		<b>Galaxy Scd:</b>	<b>VF,PL,LE,D*N</b>
Sep 05 2010	12"	5.5mmN	VF,CS,EON,UB,NND,AV,R=F,PA=75	
<b>NGC 6411</b>	<b>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 Galaxy SA(s)c</b>	<b>GCL,CL,R,VGBM,RR</b>
Sep 05 2010	12"	5.5mmN	DIFF,PF,PS,OVAL,NND,R=F,PA=170	
<b>NGC 6434</b>	<b>Dra</b>		<b>H741-3 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	

# Circumpolar Observations

<b>NGC 6503</b>	<b>Dra</b>		<b>Galaxy SA(s)cd</b>	<b>PF,L,ME,*9F4'</b>
Oct 21 2012	8"	5mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6508</b>	<b>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 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 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 6643</b>	<b>Dra</b>		<b>Galaxy SA(rs)c</b>	<b>PB,PL,E50,2ST P</b>
Sep 07 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6651</b>	<b>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 6654</b>	<b>Dra</b>		<b>Galaxy (R')SB(s)0/a</b>	<b>*12,13INPB,PL NEBY</b>
Jul 27 2009	16"	11mmT6	PF,PS,EL,OVAL,NND,R=F	
<b>NGC 6667</b>	<b>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 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 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 6701</b>	<b>Dra</b>		<b>Galaxy (R')SB(s)a</b>	<b>PB,PS,ME,F*CLOSE F</b>
Sep 05 2010	12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,MSB,R=G,PA=30	
<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 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 6764</b>	<b>Cyg</b>		<b>Galaxy SB(s)bc</b>	<b>PF,PL,ME,SEVV*INV</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6786</b>	<b>Dra</b>		<b>Galaxy SB?</b>	<b>EEF,S,R,2ST NF</b>
Sep 05 2010	12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F,PA=85	
<b>NGC 6789</b>	<b>Dra</b>		<b>Galaxy Im</b>	<b>EEF,PL,R,VDIFFIC</b>
Sep 05 2010	12"	5.5mmN	VF,PS,OVAL,UB,NND,AV,R=F,PA=120	
<b>NGC 6796</b>	<b>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	

# Circumpolar Observations

<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 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 6824</b>	<b>Cyg</b>		<b>H878-2 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 6869</b>	<b>Dra</b>		<b>Galaxy S0</b>	<b>PB,PS,R</b>
Jul 27 2009	16"	11mmT6	PF,PS,R,UB,NND,R=F	
<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 6946</b>	<b>Cep</b>		<b>H76-4 Galaxy SAB(rs)cd</b>	<b>VF,VL,VG,VSBM,RR</b>
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 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	