

# Circumpolar Observations

<b>IC 10</b>	<b>Cas</b>		<b>Galaxy IBm</b>	
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 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 2174</b>	<b>Cam</b>		<b>Galaxy SBa</b>	
Feb 01 2005	31"	17mmT4	MF,OVAL,PATCHY,NND,R=G	
<b>IC 2179</b>	<b>Cam</b>		<b>Galaxy E1-2</b>	
Feb 01 2005	31"	17mmT4	MB,ML,EL,NUC,HISB,R=G	
<b>IC 2184</b>	<b>Cam</b>		<b>Galaxy I?</b>	
Feb 01 2005	31"	17mmT4	DIFF,MB,MF,PATCH,NND,R=G	
<b>IC 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 458</b>	<b>Lyn</b>		<b>Galaxy S0-:</b>	
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 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 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	

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<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 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 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 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 2340</b>	<b>Lyn</b>		<b>H736-2</b>	<b>Galaxy E</b>	<b>PF,S,R,GLBM,R</b>
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 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		

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<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 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 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 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 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 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	
<b>NGC 2768</b>	<b>UMa</b>		<b>H250-1 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 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 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 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 Galaxy SB0-</b>	<b>B,CS,R,MBM,AM ST</b>
Mar 04 2006	8"	11mmT6	PF,PS,R,NND,R=F	
<b>NGC 2950</b>	<b>UMa</b>		<b>H68-4 Galaxy (R)SB(r)0^</b>	<b>B,PS,R,VGVMBMN</b>
Mar 04 2006	8"	11mmT6	PB,PS,R,FNUC,,R=G	
<b>NGC 2976</b>	<b>UMa</b>		<b>H285-1 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 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 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	

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<b>NGC 3031</b>	<b>UMa</b>	<b>M81</b>	<b>Galaxy SA(s)ab</b>	<b>EB,EL,E156,GSVMBMBN 2</b>	
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007	1.9"	12x50	FB,L,OVAL,FNUC,R=G		
Aug 20 2006	1.9"	12x50	PB,PL,OVAL,FNUC,HISB,R=G		
Mar 19 2006	8"	19mmW	PB,PL,EL,EON,BNUC,R=G		
May 04 2005	8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E!		
Apr 04 2005	8"	11mmT6	VB,VL,EON,NUC,HISB,R=E!!		
Feb 10 2005	8"	11mmT6	MF,ML,OVAL,NND,R=F		
Apr 14 2004	31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL		
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004	8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 30 2003	8"	25mmPL	H/M COLD		
<b>NGC 3034</b>	<b>UMa</b>	<b>M82</b>	<b>H79-4</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007	1.9"	12x50	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 3057</b>	<b>Dra</b>		<b>H978-3</b>	<b>Galaxy SB(s)dm</b>	<b>EF,PL,VLBM,2S* S</b>
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>
Sep 09 2010	12"	5.5mmN	VF,CS,R,NND,AV,R=F		
<b>NGC 3065</b>	<b>UMa</b>		<b>H333-2</b>	<b>Galaxy SA(r)0^</b>	<b>PF,VS,R,BM,*11NR</b>
Mar 28 2011	12"	5mm TV	VF,PS,R,UB,NND,AV,R=F		
<b>NGC 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		

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<b>NGC 3147</b>	<b>Dra</b>		<b>H79-1</b>	<b>Galaxy SA(rs)bc</b>	<b>VB,L,R,VGVSVMBM</b>
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 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 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 3310</b>	<b>UMa</b>		<b>H60-4</b>	<b>Galaxy SAB(r)bc pec</b>	<b>CB,PL,R,VG,VSMBMN</b>
Mar 13 2007	8"	11mmT6	CB,PS,R,FNUC,R=G		
<b>NGC 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		
<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 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>
Feb 23 2006	31"	17mmT4	DIFF,B,ML,R,NND,R=F		

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<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>
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		
<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 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 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 3718</b>	<b>UMa</b>		<b>H221-1</b>	<b>Galaxy SB(s)a pec</b>	<b>PB,VL,R,VGLBM</b>
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		

# Circumpolar Observations

<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	
<b>NGC 3756</b>	<b>UMa</b>		<b>H784-2</b>	<b>Galaxy SAB(rs)bc</b>	<b>PF,L,LE</b>
Mar 01 2011	12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 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 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>
Feb 23 2006	31"	17mmT4	FB,FL,R,BNUC,FHISB,R=G		
<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 3945</b>	<b>UMa</b>		<b>H251-1</b>	<b>Galaxy (R)SB(rs)0+</b>	<b>B,PL,R,GMBM,R,*12SP</b>
Mar 17 2007	8"	11mmT6	PF,S,OVAL,NND,R=F		
<b>NGC 3953</b>	<b>UMa</b>		<b>H45-5</b>	<b>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</b>	<b>Galaxy (R)SB(r)a:</b>	<b>EF,VS</b>
Feb 23 2006	31"	17mmT4	FB,FL,OVALM,FNUC,MSB,R=G		
<b>NGC 3982</b>	<b>UMa</b>		<b>H62-4</b>	<b>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</b>	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SBMBRN</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"	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		
<b>NGC 3998</b>	<b>UMa</b>		<b>H229-1</b>	<b>Galaxy SA(r)0^?</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 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		

# Circumpolar Observations

<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 4125</b>	<b>Dra</b>			<b>Galaxy E6 pec</b>	<b>PB,PL,CE,MBM</b>
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 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	PF,PS,EON,FNUC,R=F, A.L. FLAT GALAXY		
Aug 06 2010	12"	7mm TV	PF,PS,EON,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 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</b>	<b>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</b>	<b>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</b>	<b>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</b>	<b>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</b>	<b>Galaxy SB(rs)ab:</b>	<b>PB,L,R,GMBM</b>
Mar 01 2011	12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		

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<b>NGC 4291</b>	<b>Dra</b>		<b>H275-1</b>	<b>Galaxy E</b>	<b>PB,VS,R,LBM,3*F</b>
Jul 14 2010	12"	7.5mmW	PF,CS,OVAL,FNUC,MSB,R=F		
<b>NGC 4319</b>	<b>Dra</b>		<b>H276-1</b>	<b>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</b>	<b>Galaxy SB(s)a</b>	<b>PF,S,VLE,VGBM</b>
Jul 14 2010	12"	7.5mmW	CF,PS,OVAL,UB,NND,R=F		
<b>NGC 4386</b>	<b>Dra</b>		<b>H277-1</b>	<b>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</b>	<b>Galaxy SA0-:</b>	<b>CF,S,R,SBM,***SP</b>
Jul 14 2010	12"	7.5mmW	CF,VS,R,UB,NND,R=F		
<b>NGC 4441</b>	<b>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 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</b>	<b>Galaxy S0/a</b>	<b>PB,S,PME,PGBM,*P12S</b>
Aug 31 2010	12"	7mm TV	CF,PS,EON,UB,NND,R=G. PA=195		
<b>NGC 4545</b>	<b>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 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 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		

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<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		
<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 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>
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		

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<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		
<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 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 5982</b>	<b>Dra</b>		<b>H764-2</b>	<b>Galaxy E3</b>	<b>CB,S,R,PSBM,R</b>
Apr 13 2005	8"	11mmT6	VF,VS,OVAL,NND,R=F		
<b>NGC 5985</b>	<b>Dra</b>		<b>H766-2</b>	<b>Galaxy SAB(r)b</b>	<b>PB,CL,IE,R</b>
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 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		

# Circumpolar Observations

<b>NGC 6079</b>	<b>UMi</b>		<b>H884-3</b>	<b>Galaxy E</b>	<b>VF,VS</b>
Aug 31 2010	12"	7mm TV	CF,PS,OVAL,NND,R=F. PA=90		
<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^ 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>
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		
<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 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 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>
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		

# Circumpolar Observations

<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	
<b>NGC 6503</b>	<b>Dra</b>		<b>Galaxy SA(s)cd</b>	<b>PF,L,ME,*9F4'</b>
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 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	

# Circumpolar Observations

<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,SEVVF*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	
<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 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	