

## Ursa Major - The Great Bear

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

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<b>NGC 2805</b>		<b>H878-3</b>	<b>Galaxy SAB(rs)d</b>	<b>VF,L,R,MBM</b>
Jun 07 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 2841</b>		<b>H205-1</b>	<b>Galaxy SA(r)b:</b>	<b>VB,L,VME151,VSMBM*10</b>
Mar 04 2006 8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G		
<b>NGC 2880</b>		<b>H260-1</b>	<b>Galaxy SB0-</b>	<b>B,CS,R,MBM,AM ST</b>
Mar 04 2006 8"	11mmT6	PF,PS,R,NND,R=F		
<b>NGC 2950</b>		<b>H68-4</b>	<b>Galaxy (R)SB(r)0^</b>	<b>B,PS,R,VGVMBMN</b>
Mar 04 2006 8"	11mmT6	PB,PS,R,FNUC,,R=G		
<b>NGC 2976</b>		<b>H285-1</b>	<b>Galaxy SAc pec</b>	<b>B,VL,ME152,ST INV</b>
Mar 04 2006 8"	11mmT6	DIFF,F,FL,EON,NND,R=F		
<b>NGC 2985</b>		<b>H78-1</b>	<b>Galaxy (R')SA(rs)ab</b>	<b>VB,CL,R,PSMBM,*INV F</b>
Mar 04 2006 8"	11mmT6	PB,FS,OVAL,FNUC,R=G		
<b>NGC 3031</b>	<b>M81</b>		<b>Galaxy SA(s)ab</b>	<b>EB,EL,E156,GSVMBMBN 2</b>
Jul 25 2017 12"	11mmT6	NOT BAD.		
May 14 2017 12"	11mmT6	EXCELLENT		
Jul 01 2016 12"	8mm Et	EYE CANDY		
Apr 14 2016 12"	8mm Ds	F,S,OVAL,NND,R=G		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007 1.9"	12x50	FB,L,OVAL,FNUC,R=G		
Aug 20 2006 1.9"	12x50	PB,PL,OVAL,FNUC,HISB,R=G		
Mar 19 2006 8"	19mmW	PB,PL,EL,EON,BNUC,R=G		
May 04 2005 8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E!		
Apr 04 2005 8"	11mmT6	VB,VL,EON,NUC,HISB,R=E!!		
Feb 10 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
Apr 14 2004 31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
<b>NGC 3034</b>	<b>M82</b>	<b>H79-4</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
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.		

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<b>NGC 3034</b>	<b>M82</b>	<b>H79-4</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
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 3065</b>		<b>H333-2</b>	<b>Galaxy SA(r)0^</b>	<b>PF,VS,R,BM,*11NR</b>
Mar 28 2011 12"	5mm TV	VF,PS,R,UB,NND,AV,R=F		
<b>NGC 3073</b>		<b>H853-3</b>	<b>Galaxy SAB0-</b>	<b>VF,S,VGLBM</b>
Mar 28 2011 12"	5mm TV	VF,VS,R,UB,NND,AV,R=F		
<b>NGC 3077</b>		<b>H286-1</b>	<b>Galaxy I0 pec</b>	<b>CB,CL,MBM,R WITH RAY</b>
Mar 13 2007 8"	11mmT6	PF,L,OVAL,NND,AV,R=F		
May 24 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
<b>NGC 3079</b>		<b>H47-5</b>	<b>Galaxy SB(s)c sp</b>	<b>VB,L,ME135</b>
Mar 04 2006 8"	11mmT6	PF,FL,EON,NND,R=F		
<b>NGC 3184</b>		<b>H168-1</b>	<b>Galaxy SBc</b>	<b>PB,VL,R,VGBM</b>
Mar 13 2007 8"	11mmT6	VF,S,R,NND,AV,R=F		
<b>NGC 3198</b>		<b>H199-1</b>	<b>Galaxy SB(rs)c</b>	<b>PB,VL,ME45,VGBM</b>
Mar 13 2007 8"	11mmT6	VF,S,EON,NND,AV,R=F		
<b>NGC 3206</b>		<b>H266-1</b>	<b>Galaxy SB(s)cd</b>	<b>PB,CL,E,VGLBM</b>
Apr 09 2010 12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
<b>NGC 3225</b>		<b>H882-2</b>	<b>Galaxy Scd:</b>	<b>CF,PL,LE,VGBM</b>
Mar 28 2011 12"	5mm TV	VF,VS,OVAL,NND,AV,R=F		
<b>NGC 3310</b>		<b>H60-4</b>	<b>Galaxy SAB(r)bc pec</b>	<b>CB,PL,R,VG,VSMBMN</b>
Mar 13 2007 8"	11mmT6	CB,PS,R,FNUC,R=G		
<b>NGC 3319</b>		<b>H700-3</b>	<b>Galaxy SB(rs)cd</b>	<b>CF,L,IE,MB,S OF M</b>
Apr 09 2010 12"	11mmT6	DIFF,CF,PS,OVAL,MEXT,NND,AV,R=F		
<b>NGC 3359</b>		<b>H52-5</b>	<b>Galaxy SB(rs)c</b>	<b>PB,L,E0,GLBM</b>
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G		

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<b>NGC 3406</b>			<b>Galaxy E</b>	<b>PB,R,PGBM</b>
May 30 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F		
<b>NGC 3435</b>		<b>H887-2</b>	<b>Galaxy Sb</b>	<b>CF,PS,LE,VGBM</b>
May 30 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
<b>NGC 3440</b>		<b>H914-3</b>	<b>Galaxy SBb? sp</b>	<b>VF,S,LE</b>
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=50		
<b>NGC 3445</b>		<b>H267-1</b>	<b>Galaxy SAB(s)m</b>	<b>CB,PL,IR,VGLBM,*NF2'</b>
May 30 2014 18"	8mm Ds	PFL,PS,R,UB,NND,R=F		
<b>NGC 3448</b>		<b>H233-1</b>	<b>Galaxy I0</b>	<b>B,PL,ME67,GBM</b>
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
<b>NGC 3458</b>		<b>H268-1</b>	<b>Galaxy SAB0:</b>	<b>VB,VS,R,STELLAR</b>
Apr 09 2010 12"	11mmT6	PB,CS,R,BNUC,R=G		
<b>NGC 3471</b>		<b>H972-3</b>	<b>Galaxy Sa</b>	<b>VF,S,R,BM</b>
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
<b>NGC 3516</b>		<b>H336-2</b>	<b>Galaxy (R)SB(s)0^:</b>	<b>PB,VS,IR,PSMBM*</b>
Jul 14 2010 12"	7.5mmW	PF,CS,OVAL,FNUC,R=F		
<b>NGC 3556</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 3583</b>		<b>H728-2</b>	<b>Galaxy SB(s)b</b>	<b>PB,PL,R,VGMBM</b>
Jul 14 2010 12"	7.5mmW	DIFF,CF,PS,OVAL,UB,NND,R=F		
<b>NGC 3587</b>	<b>M97</b>		<b>Planetary Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>
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.		

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<b>NGC</b>	<b>3587</b>	<b>M97</b>	<b>Planetary Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>	
	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</b>	<b>3610</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</b>	<b>3613</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</b>	<b>3619</b>		<b>H244-1</b>	<b>Galaxy (R)SA(s)0+:</b>	<b>CB,CL,R,VGMBM</b>
	Mar 17 2007	8"	11mmT6	F,PS,R,NND,R=F	
<b>NGC</b>	<b>3622</b>		<b>H879-2</b>	<b>Galaxy S?</b>	<b>PB,S,R,GBM</b>
	Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,AV,R=F	
<b>NGC</b>	<b>3631</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</b>	<b>3642</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</b>	<b>3652</b>		<b>H775-2</b>	<b>Galaxy Scd?</b>	<b>PF,CL,LE,VGBM</b>
	Mar 28 2011	12"	5mm TV	PF,PS,OVAL,UB,NND,R=F,PA=115	
<b>NGC</b>	<b>3654</b>		<b>H880-2</b>	<b>Galaxy S?</b>	<b>F,S,LE15</b>
	May 30 2014	18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F	
<b>NGC</b>	<b>3656</b>		<b>H782-2</b>	<b>Galaxy (R')I0: pec</b>	<b>PB,S,R,VGBM,*12P</b>
	May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F	
<b>NGC</b>	<b>3657</b>		<b>H768-3</b>	<b>Galaxy SAB(rs)c pec</b>	<b>CF,VS,R,STELLAR</b>
	May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F	
<b>NGC</b>	<b>3668</b>		<b>H845-2</b>	<b>Galaxy Sbc</b>	<b>F,PS,IR,GBM,*9NP</b>
	Jul 14 2010	12"	7.5mmW	VF,CS,R,UB,NND,AV,R=F	
<b>NGC</b>	<b>3669</b>		<b>H829-2</b>	<b>Galaxy SBcd: sp</b>	<b>VF,PL,PME135,ER</b>
	Jul 14 2010	12"	7.5mmW	VF,CS,EON,UB,NND,AV,R=P	

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<b>NGC 3674</b> May 30 2014 18"	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"	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 3683</b> Mar 28 2011 12"	5mm TV	<b>H246-1</b> VF,PS,OVAL,UB,NND,AV,R=F	<b>Galaxy SB(s)c?</b>	<b>CB,PL,E</b>
<b>NGC 3690</b> Jun 22 2012 18"	8.8 ES	<b>H247-1</b> PF,PS,OVAL,UB,NND,R=F,PAIRED W/IC-694	<b>Galaxy IBm pec</b>	<b>PB,PS,VLE80,PGBM</b>
<b>NGC 3718</b> May 23 2012 18" Feb 23 2006 31"	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"	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"	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 3738</b> Jun 22 2012 18"	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 3756</b> Mar 01 2011 12"	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 3813</b> Mar 17 2007 8"	11mmT6	<b>H94-1</b> CF,CS,OVAL,NND,R=F	<b>Galaxy SA(rs)b:</b>	<b>CB,PL,PME90,BM</b>
<b>NGC 3877</b> Apr 14 2010 16" Mar 17 2007 8"	11mmT6 11mmT6	<b>H201-1</b> PB,PL,EON,FNUC,R=G PF,PL,EON,NND,R=F	<b>Galaxy SA(s)c:</b>	<b>B,L,ME37</b>
<b>NGC 3888</b> Mar 17 2007 8"	11mmT6	<b>H785-2</b> PF,PS,UB,NND,R=F	<b>Galaxy SAB(rs)c</b>	<b>PB,S,LE,PGBM</b>
<b>NGC 3893</b> Mar 17 2007 8"	11mmT6	<b>H738-2</b> VF,PS,OVAL,NND,AV,R=F	<b>Galaxy SAB(rs)c:</b>	<b>B,PL,R,MBM</b>
<b>NGC 3898</b> Mar 17 2007 8"	11mmT6	<b>H228-1</b> PB,PS,OVALFNUC,R=G	<b>Galaxy SA(s)ab</b>	<b>B,PL,LE,SVMBM</b>
<b>NGC 3938</b> Mar 17 2007 8"	11mmT6	<b>H203-1</b> DIFF,PF,PL,OVAL,NND,R=F	<b>Galaxy SA(s)c</b>	<b>B,VL,R,BMPBN,ER</b>

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<b>NGC 3941</b> Mar 17 2007 8"	11mmT6	<b>H173-1</b> PB,CS,OVA,,BNUC,R=G	<b>Galaxy SB(s)0<sup>^</sup></b>	<b>VB,PL,R,SMBM*9</b>
<b>NGC 3945</b> Mar 17 2007 8"	11mmT6	<b>H251-1</b> PF,S,OVAL,NND,R=F	<b>Galaxy (R)SB(rs)0<sup>+</sup></b>	<b>B,PL,R,GMBM,R,*12SP</b>
<b>NGC 3949</b> Mar 17 2007 8"	11mmT6	<b>H202-1</b> PF,S,OVAL,NND,R=F	<b>Galaxy SA(s)bc:</b>	<b>CB,PL,PME,VGBM</b>
<b>NGC 3953</b> Mar 18 2007 8"	11mmT6	<b>H45-5</b> PB,PL,EL,OVAL,FNUC,MSB,R=G	<b>Galaxy SB(r)bc</b>	<b>CB,L,E0,VSBMLRN</b>
<b>NGC 3982</b> Mar 18 2007 8"	11mmT6	<b>H62-4</b> PF,L,OVAL,NND,=F	<b>Galaxy SAB(r)b:</b>	<b>B,PL,R,G,SBM,DISC</b>
<b>NGC 3992</b> Jul 15 2015 12"	<b>M109</b> 17mmT4	<b>H61-4</b> 2012 M.M.	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SMBMRN</b>
Mar 16 2012 18"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 01 2011 12"	17mmAT	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	MESSIER MARATHON - 2009		
Mar 20 2009 16"	26mm	F,FS,OVAL,NND,R=F		
Mar 19 2006 8"	19mmW	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 19 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Mar 09 2004 8"	25mmPL			
<b>NGC 3998</b> Mar 18 2007 8"	11mmT6	<b>H229-1</b> PB,PL,OVAL,FNUC,MSB,R=G	<b>Galaxy SA(r)0<sup>^</sup>?</b>	<b>CB,PS,R,VG,SMBM</b>
<b>NGC 4013</b> Mar 01 2011 12"	11mmT6	<b>H733-2</b> PF,PS,EON,BNUC,R=G	<b>Galaxy Sb sp</b>	<b>B,CL,ME62,VSVMBM*10</b>
<b>NGC 4026</b> Mar 18 2007 8"	11mmT6	<b>H223-1</b> PB,L,OVAL,FNUC,MSB,R=G	<b>Galaxy S0 sp</b>	<b>VB,CL,ME176,VSVMBMBN</b>
<b>NGC 4036</b> Mar 18 2007 8"	11mmT6	<b>H253-1</b> PB,PL,EON,FNUC,MSB,R=G	<b>Galaxy S0-</b>	<b>VB,VL,E</b>
<b>NGC 4041</b> Mar 18 2007 8"	11mmT6	<b>H252-1</b> PF,PL,R,NND,R=F	<b>Galaxy SA(rs)bc:</b>	<b>B,CL,R,G,PSVMBMRN</b>
<b>NGC 4047</b> Mar 01 2011 12"	11mmT6	<b>H741-2</b> PF,CS,R,UB,NND,R=F	<b>Galaxy (R)SA(rs)b:</b>	<b>PB,PS,R</b>
<b>NGC 4051</b> Mar 18 2007 8"	11mmT6	<b>H56-4</b> PF,L,R,NND,AV,R=F	<b>Galaxy SAB(rs)bc</b>	<b>B,VL,E,VGVSMBM*11</b>
<b>NGC 4062</b>		<b>H174-1</b>	<b>Galaxy SA(s)c</b>	<b>PB,VL,ME97,VGBM</b>

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<b>NGC 4062</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 4085</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>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 4096</b>		<b>H207-1</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,VL,ME32</b>
Mar 01 2011 12"	11mmT6	PF,PS,EON,FNUC,R=F		
<b>NGC 4100</b>		<b>H717-3</b>	<b>Galaxy (R')SA(rs)bc</b>	<b>PB,VL,VME161,VGVLBM</b>
Mar 01 2011 12"	17mmAT	PF,PS,EON,UB,NND,R=F		
<b>NGC 4102</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 4144</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 4157</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 4271</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>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		
<b>NGC 4605</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 5204</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 5308</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>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>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>H799-2</b>	<b>Galaxy SB(s)b?</b>	<b>PF,L,E</b>



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<b>NGC 5443</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 5447</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>H691-2</b>	<b>Galaxy (R)SAB(r)a</b>	<b>PB,CL,VME90,SMBMN</b>
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5457</b>	<b>M101</b>		<b>Galaxy SAB(rs)cd</b>	<b>PB,VL,IR,G,VSMBMSN 4</b>
Jul 15 2015 12"	17mmT4			
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 20 2006 1.9"	12x50	F,S,OVAL,NND,R=F		
Mar 26 2006 8"	19mmW	F,L,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER		
<b>NGC 5462</b>		<b>H789-3</b>	<b>Knot in Galaxy</b>	<b>PB,PL,IR,GBM,CONM101</b>
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SE SIDE - KNOT IN GALAXY		
<b>NGC 5473</b>		<b>H231-1</b>	<b>Galaxy SAB(s)0-:</b>	<b>PB,S,R,GBM</b>
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
Mar 18 2007 8"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
<b>NGC 5474</b>		<b>H214-1</b>	<b>Galaxy S(c)</b>	<b>PB,L,BM</b>
Mar 18 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
<b>NGC 5480</b>		<b>H692-2</b>	<b>Galaxy SA(s)c:</b>	<b>F,PS,VGBM,NP OF 2</b>
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 5481</b>		<b>H693-2</b>	<b>Galaxy E+</b>	<b>F,VS,SMBM,STELL,SF-2</b>
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
<b>NGC 5485</b>		<b>H232-1</b>	<b>Galaxy SA0 pec</b>	<b>CB,R,VGBM,F OF 2</b>
Mar 18 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F		
<b>NGC 5585</b>		<b>H235-1</b>	<b>Galaxy SAB(s)d</b>	<b>PF,L,IR,VGMBM,R</b>
Mar 01 2011 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F		
<b>NGC 5631</b>		<b>H236-1</b>	<b>Galaxy SA(s)0^</b>	<b>B,S,R,PSBMN</b>
Mar 18 2007 8"	11mmT6	CF,CS,R,NND,R=F		

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<b>PAL 4</b>		<b>Globular</b>
Apr 06 2010 12"	11mmT6	VF,VS,AV,R=F,FAINT SMUDGE, 12TH MAG START TO WEST.
<b>PGC 29472</b>		<b>Galaxy SB(s)c? sp</b>
May 25 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=125
<b>PGC 31697</b>		<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 31720</b>		<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 31959</b>		<b>Galaxy SBb</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G
<b>PGC 31965</b>		<b>Galaxy S0/a</b>
Feb 23 2006 31"	17mmT4	PB,PL,EON,FNUC,MSB,R=G
<b>PGC 34303</b>		<b>Galaxy S0</b>
Feb 23 2006 31"	17mmT4	PB,PL,R,BNUC,HISB,R=G
<b>PGC 34733</b>		<b>Galaxy Sd</b>
Feb 23 2006 31"	17mmT4	FB,FL,EOB,FNUC,MSB,R=G
<b>PGC 34768</b>		<b>Galaxy SB(s)ab</b>
Feb 23 2006 31"	17mmT4	FB,FL,R,FNUC,MSB,R=G
<b>PGC 35609</b>		<b>Galaxy SB0 pec:</b>
Feb 23 2006 31"	17mmT4	FF,PS,OVAL,NND,R=F
<b>PGC 35615</b>		<b>Galaxy SA(s)0/a pec:</b>
Feb 23 2006 31"	17mmT4	PB,FS,R,NND,R=G
<b>PGC 35618</b>		<b>Galaxy (R')S0/a pec:</b>
Feb 23 2006 31"	17mmT4	PB,FS,OVAL,FNUC,MSB,R=G
<b>PGC 35620</b>		<b>Galaxy Sa pec sp</b>
Feb 23 2006 31"	17mmT4	PB,FS,OVA,FNUC,MSB,R=G
<b>PGC 35631</b>		<b>Galaxy S?</b>
Feb 23 2006 31"	17mmT4	PF,PL,EON,NND,R=F
<b>PGC 36343</b>		<b>Galaxy Scd:</b>
May 30 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=90
<b>WINN 4</b>	<b>M40</b>	<b>Unknown STAR</b>
Mar 16 2012 18"	17mmAT	2012 M.M.

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<b>WINN 4</b>	<b>M40</b>	<b>Unknown STAR</b>
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009
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