

Andromeda - Daughter of Cassiopeia

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

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

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

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NGC 97			Galaxy E:	F,VS,R,GBM
Sep 09 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F		
NGC 108		H148-3	Galaxy (R)SB(r)0+	PF,PL,R,PSLBM
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
NGC 140			Galaxy Scd:	VF,S,R,GBM
Aug 24 2012 18"	5mm TV	VF,PS,R,UB,NND,AV3,R=P		
NGC 149			Galaxy S0:	VF,VS,R,GBM*14,*12SP
Aug 24 2012 18"	5mm TV	VF,VS,OVAL,UB,NND,AV3,R=P		
NGC 160		H476-3	Galaxy (R)SA0+ pec	VF,VS,STELL,*8NP4'
Oct 17 2004 8"	7.5mmW	VF,EL,OVAL,NND,AV,R=F		
NGC 169			Galaxy SA(s)ab: sp	F,PL,D ORBIN,*6NF4'
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
NGC 183			Galaxy E	PF,VS,R,GBM
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
NGC 205	M110	H18-5	Galaxy E5 pec	VB,VL,ME165,VGVMBM
Jan 25 2018 12"	11mmT6	NICE OBJECT		
Sep 02 2016 12"	35mm A	SUPER		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	8mm Ds			
Oct 26 2014 12"	22mmAT	EYE CANDY		
Jul 13 2013 18"	35mm A	MORE EYE CANDY		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Mar 08 2010 12"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUV			
Mar 20 2009 1.9"	12x50	MESSIER MARATHON - 2009		
Aug 20 2006 1.9"	12x50	B,L,OVAL,UB,NND,R=G		
Mar 19 2006 8"	25mmPL	PB,ML,OVALFNUC,HISB,R=G		
Oct 27 2004 31"	31mmT5	VB,ML,OVAL,HISB,R=E, LUNAR ECLIPSE		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 206		H36-5	Knot in Galaxy	VF,VL,ME0
Nov 10 2007 31"	17mmT4	DIFF,PF,CL,R=F,IRREGULAR SHAPE.		
NGC 214		H209-2	Galaxy SAB(r)c	PF,PS,GVLBM,R
Oct 05 2016 12"	8mm Et	PF,S,R,UB,NND,R=G. MIRACH'S GHOST		
Nov 03 2004 8"	11mmT6	VF,EL,NND,AV,R=F		

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NGC	221	M32	Galaxy cE2	VVB,L,R,PSMBMN
Jan 25 2018	12"	11mmT6	NICE OBJECT	
Sep 02 2016	12"	35mm A	SUPER	
Dec 05 2015	12"	17mmT4		
Aug 21 2015	12"	35mm A		
Oct 26 2014	12"	22mmAT	EYE CANDY	
Jul 13 2013	18"	35mm A	MORE EYE CANDY	
Oct 21 2012	8"	11mmT6	PB,LOOKED PRETTY GOOD	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUV		
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Oct 29 2008	16"	20mmUV	LARGE,BRIGHT,R=E	
Oct 29 2006	8"	19mmW	F,VS,OVAL,UB,NND,R=G	
Aug 20 2006	1.9"	12x50	B,S,OVAL,NND,R=F	
Mar 19 2006	8"	25mmPL	B,S,OVAL,OVAL,R,ND,R=F	
Oct 27 2004	31"	31mmT5	VB,ML,EL,HISB,R=E, LUNAR ECLIPSE	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	

NGC	224	M31	Galaxy SA(s)b	EEB,EL,VME,ANDROMEDA 17
Jan 25 2018	12"	35mm A	NICE OBJECT	
Sep 02 2016	12"	35mm A	BEAUTIFUL	
Dec 05 2015	12"	17mmT4		
Sep 10 2015	36"	17mmT4	ALWAYS A TREAT	
Aug 21 2015	12"	35mm A	ANDROMEDA	
Oct 26 2014	12"	22mmAT	EYE CANDY	
Jul 13 2013	18"	35mm A	MORE EYE CANDY	
Oct 21 2012	8"	25mmPL	ALWAYS GREAT	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 31 2010	12"	22mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009	12"	20mmUV		
Sep 13 2009	12"	32mmUV	4TH OBJECT	
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Oct 29 2008	16"	20mmUV	SMALL,BRIGHT,R=E	
Oct 09 2007	8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E	
Oct 29 2006	8"	19mmW	VB,VL,OVAL,MBNUC,VHISB,R=E	
Aug 20 2006	1.9"	12x50	VB,VL,OVAL,BNUC,HISB,R=E!!	
Mar 19 2006	8"	25mmPL	VB,VL,OVAL,BNUC,VHISB,R=E	
Oct 27 2004	1.9"	12x50	FIRST MESSIER IN BINOCULARS - VERY NICE	
Oct 27 2004	31"	31mmT5	VB,EL,EL,OVAL,HISB,R=E, LUNAR ECLIPSE	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003	8"	25mmPL	Q/M COLD	

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NGC 226			Galaxy S?	EF,S,R,*13S20"
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,UB,NND,R=F		
NGC 228			Galaxy (R)SB(r)ab	EF,S,R,FAINTER OF 2
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,EEXT,FNUC,R=F		
NGC 229			Galaxy Sab	VF,S,R,SMALLER OF 2
Aug 24 2012 18"	5mm TV	DIFF,VF,PS,R,UB,NND,R=F		
NGC 233		H149-3	Galaxy E?	F,VS,R,LBM
Sep 09 2010 12"	5.5mmN	PF,PS,R,FNUC,R=F		
NGC 243			Galaxy S0?	F,VS,R,GBM,*10P
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,UB,NND,R=F		
NGC 252		H609-2	Galaxy (R)SA(r)0+:	PB,S,R,PMBM,R,**P
Aug 24 2012 18"	5mm TV	PF,PS,OVAL,FNUC,R=F		
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,FNUC,MSB,R=F,PA=130		
NGC 258			Galaxy Sb	EF,S,VF*CLOSE
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,UB,NND,R=F		
NGC 260			Galaxy Scd pec:	EF,PS,LE
Aug 24 2012 18"	5mm TV	VF,VS,R,NND,AV2,R=P		
NGC 262			Galaxy SA(s)0/a:	EF,VS,R,V DIFFIC
Oct 30 2005 31"	17mmT4	MF,ML,R,NND,R=F		
NGC 272			Open Cluster 9.0 asterism	CL,L,LC
Nov 08 2010 12"	5.5mmN	PF,VS,R=F,FISHHOOK		
NGC 317B			Galaxy SB?	
Nov 10 2012 18"	7mm TV	VF,VS,PEXT,UB,NND,R=F		
NGC 393		H54-1	Galaxy S0-:	F,VS,VLE,GBM,4S*NR
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,FNUC,MSB,R=G,PA=75		
NGC 404		H224-2	Galaxy SA(s)0-:	PB,CL,R,GBM,
Oct 05 2016 12"	8mm Et	PF,S,R,UB,NND,R=F		
Dec 01 2004 31"	11mmT6	MB,OVAL,FNUC,MSB,R=G, SOLO EFFORT		
Oct 06 2004 8"	7.5mmW	VB,EL,OVAL,FNUC,R=G		
NGC 425			Galaxy S?	VF,VS,R,LBM,*11ATT
Nov 08 2010 12"	5.5mmN	VF,CS,R,UB,NND,AV1,R=F		
NGC 477		H577-3	Galaxy SAB(s)c	VF,PS,VLE,VGLBM
Oct 30 2005 31"	17mmT4	MF,ML,OVAL,NND,R=F		

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NGC 513 Nov 10 2007 31"	17mmT4	H169-3 PB,PS,OVAL,FNUC,R=F	Galaxy S?	F,S,STELLAR
NGC 523 Nov 08 2010 12"	5.5mmN	H170-3 CF,CS,EON,UB,NND,AV1,R=F	Galaxy Pec	DNEB,VF,VS,DIST30"
NGC 528 Sep 12 2010 12"	5.5mmN	H170-3 PF,CS,OVAL,MEXT,FNUC,R=F,PA=90	Galaxy S0	F,PL,R,LBM
NGC 529 Dec 01 2004 31" Nov 03 2004 8" Oct 17 2004 8"	11mmT6 11mmT6 7.5mmW	H170-3 MB,EL,FNUC,MSB,R=G, VF,OVAL,NND,AV,R=F MF,OVAL,NND,AV,R=F	Galaxy S0-: SOLO EFFORT	PB,VS,SBM,P OF 2
NGC 531 Dec 01 2004 31"	11mmT6	H170-3 MB,EL,PATCH,NND,R=G,	Galaxy SB0/a: SOLO EFFORT	F,S,R
NGC 536 Dec 01 2004 31" Nov 03 2004 8" Oct 17 2004 8"	11mmT6 11mmT6 7.5mmW	H171-3 MB,OVAL,FNUC,MSB,R=G, VF,EL,NND,AV,R=F VF,EL,NND,AV,R=F	Galaxy SB(r)b SOLO EFFORT	PB,PL,GBM,F OF 2
NGC 551 Sep 12 2010 12"	5.5mmN	H560-3 VF,PS,EON,NND,AF,R=P,PA=175	Galaxy SBbc	VF,S,E,VGLBM,*13NR
NGC 561 Oct 07 2010 12"	5.5mmN	H560-3 CF,PS,R,UB,NND,R=F	Galaxy (R)SB(s)a	EF,PL,R
NGC 590 Nov 08 2010 12"	5.5mmN	H560-3 CF,PS,OVAL,PEXT,UB,NND,R=F,PA=30	Galaxy SBa	F,VS,(RR)
NGC 591 Nov 08 2010 12"	5.5mmN	H560-3 PF,CS,R,UB,NND,R=F	Galaxy (R')SB0/a	EF,PS,R,LBM,B*SF
NGC 605 Oct 07 2010 12"	5.5mmN	H560-3 CF,PS,OVAL,MEXT,UB,NND,R=F,PA=10	Galaxy S0	VF,VS,R,BM
NGC 620 Oct 07 2010 12"	5.5mmN	H560-3 CF,PS,R,UB,NND,R=F,AV-1	Galaxy Pec	EF,VS,R,LBM
NGC 668 Oct 07 2010 12"	5.5mmN	H560-3 CF,PS,OVAL,MEXT,UB,NND,R=F,PA=70	Galaxy Sb	PF,PS,R,GBM
NGC 679 Oct 07 2010 12"	5.5mmN	H175-3 PF,PS,R,FNUC,R=F	Galaxy S0-:	F,STELLAR
NGC 687		H561-3	Galaxy S0	VF,STELLAR

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NGC 687 Oct 07 2010 12" 7mm TV	H561-3 CF,PS,R,UB,NND,R=F	Galaxy S0	VF,STELLAR
NGC 703 Oct 07 2010 12" 7mm TV	H562-3 CF,PS,OVAL,NND,R=F,PA=90	Galaxy S0-:	VF,VS,R,1ST OF 4
NGC 704 Oct 07 2010 12" 7mm TV	H563-3 CF,CS,R,UB,NND,R=F	Galaxy S0	VF,VS,R,2ND OF 4
NGC 708 Oct 07 2010 12" 7mm TV	H565-3 PF,PS,R,NND,R=F	Galaxy E	F,PL,BM,4TH OF 4
NGC 710 Oct 07 2010 12" 5.5mmN	Galaxy Scd: VF,PS,OVAL,UB,NND,R=F,AV-3,PA=115		VF,PS,2*S
NGC 712 Oct 07 2010 12" 5.5mmN	Galaxy S0 CF,PS,OVAL,UB,NND,R=F,PA=95		VF,R,AM PB ST
NGC 714 Oct 07 2010 12" 5.5mmN	Galaxy S0/a PF,CS,EON,UB,NND,R=F,PA=170		F,VS,R,2*13P\$NP
NGC 717 Oct 07 2010 12" 5.5mmN	Galaxy S0/a PF,CS,EON,UB,NND,R=F,AV-4,PA=170		VF,PS,*15SF1'
NGC 721 Oct 07 2010 12" 5.5mmN	Galaxy SB(rs)bc VF,PS,OVAL,UB,NND,R=F,AV-5,PA=10		EF,PL
NGC 732 Oct 07 2010 12" 5.5mmN	Galaxy S0 VF,PS,OVAL,UB,NND,R=F,AV-1,PA=70		VF*IN VF,VS,R,NEBY
NGC 746 Oct 07 2010 12" 5.5mmN	Galaxy Im VF,PS,OVAL,MEXT,UB,NND,R=F,AV-2,PA=115		VF,PS,LE,SEV*NR
NGC 752 Nov 26 2006 1.9" 12x50 Oct 29 2006 8" 19mmW Oct 06 2004 8" 7.5mmW	H32-7 B,L,LOOSE,RESOLVE 4-5 STARS,R=F 50+STARS,R,R=G EB,R,UB,R=G	Open Cluster 8.0 II 2 r	CL,VVL,RI,*L\$SC
NGC 753 Oct 10 2004 8" 11mmT6	Galaxy SAB(rs)bc VF, OVAL,NND,AV,R=F		PB,PL,R,GMBM
NGC 759 Nov 08 2010 12" 5.5mmN Oct 07 2010 12" 5.5mmN	Galaxy E CF,CS,R,NND,AV1,R=F PF,PS,R,FNUC,R=F		CL,VS,R
NGC 797 Oct 17 2004 8" 7.5mmW	H566-3 VF,OVAL,NND,AV,R=F	Galaxy SAB(s)a	VF,S,IR,SBM,*NR

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NGC 812			Galaxy S pec	EF,PL,E45,BM
Oct 17 2004	8"	7.5mmW	MF,EL,NND,AV,R=F	
NGC 818		H604-2	Galaxy SABc:	PB,CL,LE,MBM
Nov 21 2006	8"	11mmT6	VF,S,OVAL,NND,AV,R=F	
NGC 828		H605-2	Galaxy Sa: pec	PB,S,IR,D*F15S
Nov 21 2006	8"	11mmT6	VF,S,OVAL,NND,AV,R=F	
NGC 834		H567-3	Galaxy S?	VF,S,LE
Nov 08 2010	12"	5.5mmN	PF,PS,OVAL,UB,NND,R=F,PA=90	
NGC 841			Galaxy (R')SAB(s)ab	PB,VS,MBMN=*13,14
Nov 21 2006	8"	11mmT6	VF,L,OVAL,NND,AV,R=F	
NGC 845		H604-3	Galaxy Sb	VF,IF,STELLAR
Oct 10 2012	18"	8.8 ES	F,S,EON,UB,ND,R=F	
NGC 847			Galaxy SB(rs)ab	VF,PL,R
Nov 08 2010	12"	5.5mmN	CF,CS,R,UB,NND,R=F	
NGC 891		H19-5	Galaxy SA(s)b? sp	B,VL,VME22
Oct 12 2012	18"	17mmT4	DARK DUST LANE BISECTING GALAXY. JOHN'S 20" OBSESSION	
Oct 07 2010	12"	11mmT6	PF,S,EON,UB,NND,R=F,PA=85	
Oct 27 2004	31"	31mmT5	VB,ML,EON,HISB,R=E, LUNAR ECLIPSE	
Oct 06 2004	8"	11mmT6	MB,EL,EON,NND,R=G	
NGC 898		H570-3	Galaxy Sab sp	EF,VS,LE
Nov 08 2010	12"	5.5mmN	PF,PS,EON,FNUC,R=F,PA=45	
NGC 906			Galaxy SBab	EF,IE,
Nov 08 2010	12"	5.5mmN	CF,PS,R,UB,NND,R=F	
Oct 07 2010	12"	7mm TV	VF,VS,R,UB,NND,R=F,AV-4	
NGC 909			Galaxy E	VF,VS,VS*INV
Oct 10 2012	18"	8.8 ES	F,S,R,FNUC,R=G	
NGC 910		H571-3	Galaxy E+	VF,PS,STELLAR
Oct 30 2005	31"	17mmT4	VB,ML,R,FNUC,MSB,R=G	
NGC 911			Galaxy E	EF,VS,R,BM
Oct 30 2005	31"	17mmT4	MB,ML,EL,FNUC,MSB,R=G	
NGC 912			Galaxy E	F,VS,R,BM
Oct 10 2012	18"	8.8 ES	PR,PS,R,UB,NND,R=F	
NGC 914			Galaxy SA(s)c	EF,PL,DIF

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NGC 914			Galaxy SA(s)c	EF,PL,DIF
Nov 08 2010 12"	5.5mmN	VF,PS,OVAL,NND,R=F		
NGC 920			Galaxy (R')SB(s)ab	EF,ES,R,1OR2EF* NR
Oct 10 2012 18"	8.8 ES	DIFF,PF,S,OVAL,MEXT,UB,NND,R=F		
NGC 923			Galaxy Sb:	VF,S,R,GSBM
Oct 10 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F		
NGC 933			Galaxy S?	EF,ES,R,B*NF
Oct 10 2012 18"	8.8 ES	PF,PS,OVAL,UB,FNUC,R=G		
NGC 937			Galaxy SBcd?	VF*SLIGHTLYNEBULOUS
Oct 10 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,FNUC,R=G		
NGC 946			Galaxy S0:	F,S,R,GLBM
Oct 10 2012 18"	8.8 ES	F,PS,OVAL,FNUC,R=F		
NGC 956			Open Cluster 9.0 IV 2 m	CL,PRI,*9...15
Oct 29 2006 8"	19mmW	F,S,COARSE,R,R=F		
Oct 10 2004 8"	11mmT6	SMALL OPEN CLUSTER, FEW STARS		
NGC 980		H572-3	Galaxy S0	VF,PS,SP OF 2
Nov 08 2010 12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=180		
Oct 07 2010 12"	7mm TV	VF,CS,OVAL,PEXT,UB,NND,R=F,AV-2,PA=170		
NGC 982		H573-3	Galaxy Sa	F,S,NF OF 2
Nov 08 2010 12"	5.5mmN	PF,PS,OVAL,PEXT,UB,NND,R=F,PA=15		
Oct 07 2010 12"	7mm TV	CF,CS,OVAL,PEXT,UB,NND,R=F,PA=10		
NGC 995			Galaxy S0	VF,VS
Oct 10 2012 18"	8.8 ES	F,S,OVAL,UB,NND,R=F		
NGC 996			Galaxy E	VF,VS
Oct 10 2012 18"	8.8 ES	F,S,R,FNUC,R=F		
NGC 999			Galaxy (R')SAB(s)a	EF
Oct 10 2012 18"	8.8 ES	PF,S,OVAL,UB,ND,AV1,R=F		
NGC 1000			Galaxy C	VVF,PS,DIF
Oct 10 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F,15.3 MAG, DIRECT VISION		
NGC 7449			Galaxy E:	VF,S,R,VS*INCENTRE
Aug 25 2009 16"	11mmT6	VF,CS,EON,NND,AV,R=F		
NGC 7640		H600-2	Galaxy SB(s)c	CF,L,ME164,VLBM,R
Oct 10 2004 8"	11mmT6	DIFF,EON,NND,LSB,R=F		

Andromeda - Daughter of Cassiopeia

NGC 7662		H18-4	Planetary Neb 4+3	PLN ORRING,VB,PS,R
Oct 09 2018	12"	8mm Et	PB,S,R=G	
Oct 05 2016	12"	11mmT6	B,S,OIII,R=G. BLUE STREAK NEBULA	
Aug 21 2015	12"	8mm Ds	PRETTY SMALL USED LP2 FILTER	
Aug 24 2012	18"	5mm TV	ROUND AND BRIGHT, OIII, BLUE SNOWBALL, R=E!	
Nov 21 2006	8"	11mmT6	VB,PS,OVAL, NO CENTRAL STAR,R=G	
Aug 23 2004	8"	9mm	SMALL,FAINT. LOOK @ AGAIN LATER!	
NGC 7686		H69-8	Open Cluster 7.0 III 2 p	CL,P,LC,*7...11
Oct 06 2004	8"	11mmT6	EB,OVAL,HISB,R=G	
NGC 7831			Galaxy Sb: sp	EF,VS,ME,VF*VNR
Aug 24 2012	18"	5mm TV	PF,PS,OVAL,VEXT,UB,NND,R=F	
Sep 09 2010	12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=90	
NGC 7836			Galaxy I?	EF,VS,R,BET2*
Aug 24 2012	18"	5mm TV	PF,PS,OVAL,UB,NND,R=F	
PGC 731			Galaxy Scd:	
Oct 12 2012	18"	7mm TV	VF,VS,EON,UB,NND,AV2,R=P	
PGC 1183			Galaxy	
Oct 12 2012	18"	7mm TV	VF,VS,OVAL,UB,NND,AV2,R=P	
PGC 2458			Galaxy Scd:	
Dec 12 2012	36"	17mmT4	VF,VS,EON,UB,NND,R=F,PA=45	
PGC 4878			Galaxy Sc	
Oct 30 2005	31"	17mmT4	VF,VS,R,NND,AV,R=F	
PGC 9180			Galaxy SBa	
Oct 30 2005	31"	17mmT4	MF,MS,EL,NND,R=F	
PGC 9203			Galaxy C	
Oct 30 2005	31"	17mmT4	MB,MS,EL,OVAL,NND,R=F	
PGC 9983			Galaxy Sab	
Oct 10 2012	18"	8.8 ES	F,S,EON,UB,NND,R=F,14.7 MAG, DIRECT VISION	
PGC 70598			Galaxy Compact	
Nov 03 2013	36"	17mmT4	VF,VS,OVAL,UB,NND,AV2,R=F	
PGC 71368			Galaxy Sdm	
Aug 24 2012	18"	5mm TV	VF,PS,R,UB,NND,AV2,R=F	

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

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NGC 6741		Planetary Neb 4	PLN,STELLAR
Aug 07 2016 12"	8mm Et	PF,VS,R=F. LP3. PHANTOM STREAK.	
Sep 19 2014 12"	11mmT6	PF,PS,R=F, LP-2, NO CENTRAL STAR, HOME - 9/14/14	
Jul 03 2005 8"	11mmT6	VF,ML,PATCH,AV,R=F	
NGC 6749		Globular	CL,L,LC,ST L\$S
Jul 25 2017 12"	11mmT6	PF,PS,R=F. COULD NOT RESOLVE ANY STARS.	
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F	
NGC 6751		Planetary Neb 3	PB,S
Oct 09 2018 12"	11mmT6	F,S,R=F. NO CENTRAL STAR. LP2	
Aug 07 2016 12"	8mm Et	PF,PS,R=G. LP3 GLOWING EYE.	
Jul 03 2005 8"	11mmT6	MB,ML,R=G	
NGC 6755		H19-7	Open Cluster 11.0 II 2 r
Oct 30 2007 1.9"	12x50	B,S,R=F	CL,VL,VRI,PC,,*12.14
Jul 08 2004 8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8	
NGC 6756		H62-7	Open Cluster 13.0 I 1 m
Jul 08 2004 8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8	CL,S,RI,LC,*11...12
NGC 6760		Globular	2 19 08.6+0057
Jul 25 2017 12"	11mmT6	VF,VS,R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6772		H14-4	Planetary Neb 3b+2
Aug 31 2008 31"	17mmT4	VF,VS,R,R=P,NO CENTRAL STAR	VF,L,R,VVLBM,R
NGC 6775		Open Cluster cluster?	CL,P,LC,ST10...11
Aug 18 2010 12"	11mmT6	PF,CS,R=P,LOOSE DISTANT GROUP, STARS 8-10	
NGC 6778		Planetary Neb 3+3	S,E,ILL-DEFINED DISC
Aug 31 2008 31"	17mmT4	PB,PS,R,R=G, NO CENTRAL STAR	
NGC 6781		H743-3	Planetary Neb 3+3
Oct 09 2018 12"	11mmT6	B,L,R=G. NO CENTRAL STAR. LP2	PLN,F,L,R,VSBM DISC
Aug 07 2016 12"	8mm Et	PF,PS,R=G., LP3. LITTLE RING.	
Sep 19 2014 12"	11mmT6	F,PL,OVAL,R=G, LP-2, 3 STARS INSIDE, HOME - 9/14/14	
Sep 13 2009 12"	32mmUV	8TH OBJECT	
Oct 06 2004 8"	11mmT6	MB,OVAL,HISB,R=G	
NGC 6790		Planetary Neb 2	PLN,B,ES,STELL=9.5M
Oct 09 2018 12"	11mmT6	VF,VS,R=F. LP2	
Aug 07 2016 12"	8mm Et	PF,VS,R=F. LP3. EYE OF THE EAGLE	
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F	

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NGC 6803			Planetary Neb 2a	PLN,STELLAR
Jul 25 2017	12"	11mmT6	VF,VS,R=F USED LP2.	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
NGC 6804		H38-6	Planetary Neb 4+2	CB,S,IR,RRR
Jul 25 2017	12"	11mmT6	VF,VS,R=F. USED LP2	
Sep 13 2009	12"	32mmUV	9TH OBJECT	
Jul 03 2005	8"	11mmT6	VF,ML,AV,R=F	
NGC 6807			Planetary Neb 2	PLN,STELLAR
Aug 31 2008	31"	17mmT4	CF,CS,R,R=P, NO CENTRAL STAR	
NGC 6814		H744-3	Galaxy SAB(rs)bc	PF,PL,R,BM,R
Jul 25 2017	12"	11mmT6	PF,PS,R,NND,R=F	
Aug 02 2005	8"	11mmT6	VF,MS,R,FNUC,R=F	
NGC 6821			Galaxy SB(s)d:	F,PL,R
Aug 31 2008	31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 6837		H18-8	Open Cluster IV 1 p	CL,S,P
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
NGC 6840		H19-8	Open Cluster 10.0 cluster?	CL,P,LC
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
NGC 6843			Open Cluster 10.0 cluster?	CL,S,P
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
NGC 6852			Planetary Neb 4	F NEB,AM ST
Jul 25 2017	12"	11mmT6	VF,VS,R=F. USED LP2	
Aug 13 2010	31"	17mmT4	F,PS,PATCHY,R=F. NO CENTRAL STAR NOTED.	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
NGC 6858			Open Cluster 10.0 cluster?	CL,CL,E,PRI,ST13...
Aug 18 2010	12"	11mmT6	PF,PS,R=F,LOOSE GROUP, STAR 10-15	
NGC 6865			Galaxy S0	F,S,E
Aug 31 2008	31"	17mmT4	CF,CS,R,UB,NND,R=F	
NGC 6900			Galaxy Sb	VF,S,R
Aug 31 2008	31"	17mmT4	DIFF,PF,PS,OVAL,NND,R=F	
NGC 6901			Galaxy SB(r)ab	EF
Aug 31 2008	31"	17mmT4	CF,CS,OVAL,FNUC,R=G	
NGC 6906			Galaxy SB(rs)bc:	PF,PL,R
Aug 02 2005	8"	11mmT6	MF,ML,OVAL,NND,R=F	

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NGC 6915			Galaxy (R')Sab?	PB,S,R
Aug 31 2008 31"	17mmT4	PB,PS,EON,UB,NND,R=G		
NGC 6922			Galaxy SA(rs)c pec:	VF,PL,R
Aug 31 2008 31"	17mmT4	VF,CS,OVAL,NND,R=P		
NGC 6926		H142-3	Galaxy SB(s)bc pec	VF,PL,E176,P OF 2
Aug 31 2008 31"	17mmT4	DIFF,CF,S,OVAL,NND,R=F		
Aug 02 2005 8"	11mmT6	VF,VS,NND,AV,R=F		
NGC 6929			Galaxy SA0+ pec:	VF,VS,SF OF 2
Aug 31 2008 31"	17mmT4	PF,CS,R,UB,NND,R=G		
NGC 6941			Galaxy SAB(rs)b	EF,LE,LBM
Aug 31 2008 31"	17mmT4	DIFF,PF,S,OVAL,NND,R=P		
PAL 11			Globular	
Jul 31 2005 8"	11mmT6	DIFF, VF,ML,R,LOWSB,R=F		
PGC 63912			Galaxy SAB(rs)c	
Aug 13 2010 31"	17mmT4	CF,PS,R,UB,NND,AV,R=P		
PGC 64016			Galaxy Sb:	
Aug 13 2010 31"	17mmT4	VF,CS,OVAL,PEXT,NND,AV,R=F		
PGC 64553			Galaxy SB(s)d:	
Aug 31 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=P		
PGC 64812			Galaxy Sb	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P		
PGC 64854			Galaxy	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,R=F		
PGC 64864			Galaxy SB(rs)0/a:	
Aug 31 2008 31"	17mmT4	CF,CS,OVAL,NND,R=F		
PGC 64880			Galaxy E	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,R=F		
PGC 64910			Galaxy (R')SAB(rs)bc p	
Aug 31 2008 31"	17mmT4	CF,S,OVAL,NND,R=P		

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

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

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

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

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NGC 6976		Galaxy SAB(r)bc?	EF,IR
Sep 13 2007 31"	17mmT4	PF,PL,R,NND,R=F	
NGC 6977		Galaxy SB(r)a pec:	VF,S,IR
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G	
NGC 6978		Galaxy Sb	VF
Sep 13 2007 31"	17mmT4	CB,PL,EON,FNUC,MSB,R=G	
NGC 6981	M72	Globular	GCL,PB,PL,R,GMCM,RRR
Sep 13 2009 12"	32mmUV	2ND OBJECT.	
Oct 08 2006 1.9"	12x50	VF,S,R=F	
Oct 06 2004 8"	11mmT6	PB,L,R=G,TIGHT GROUP	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6994	M73	Open Cluster 11.1 IV 1 p	CL,EP,VLC,NO NEB
Mar 16 2012 18"	17mmAT	2012 M.M.	
Oct 08 2006 1.9"	12x50	F,S,R=F	
Mar 27 2006 8"	19mmW	R=P, 4 STARS?	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 7001		Galaxy SAB(rs)ab:	EF,S,E0
Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
NGC 7009		H1-4 Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
Oct 09 2018 12"	8mm Et	B,S,R=G. NO FILTER. CAN EASILY SEE APPENDEGES	
Jul 08 2018 12"	8mm Et	B,MS,R=G. SATURN NEBULA	
Aug 21 2015 12"	8mm Ds		
Oct 29 2006 8"	19mmW	F,VS,OVAL,R=F	
Sep 27 2005 31"	17mmT4	VB,VL,OVAL,HISB,R=G!!	
Jul 08 2004 31"	17mmT4	GREAT IN THE BIG ONE!	
Jul 08 2004 8"	25mmPL	SMALL IN 8_DOBSON	
NGC 7010		Galaxy E+ pec:	EF,PL,R,R
Sep 13 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,R=G	
NGC 7047		Galaxy SAB(r)b:	EF,VS,BIN PF
Sep 13 2007 31"	17mmT4	PB,PL,EL,OVAL,UB,FNUC,R=G	
NGC 7051		Galaxy SB(r)a pec	VF,R,GBM,**NR
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	
NGC 7065		Galaxy SB(r)ab?	VF,SBM,
Sep 13 2007 31"	17mmT4	CF,PS,R,NND,AV,R=F	
NGC 7065A		Galaxy SAB(r)c pec?	
Sep 13 2007 31"	17mmT4	PF,PL,R,PATCHY,NND,R=F	

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NGC 7069			Galaxy SAB(s)0-?	VF,S,R,STELL
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,UB,FNUC,R=G		
NGC 7077			Galaxy S0- pec?	F
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G		
NGC 7081		H859-3	Galaxy Sb pec?	F,S,R,MBM,*14S
Sep 13 2007 31"	17mmT4	PB,PL,R,UB,NND,R=G		
NGC 7089	M2		Globular	GCL,B,VL,GPMBM,RRR
Oct 09 2018 12"	8mm Et	B,L,R=G		
Oct 05 2016 12"	11mmT6	B,L,R=G		
Sep 02 2016 12"	8mm Et	VERY NICE. SQM-19.67		
Aug 15 2015 12"	8mm Ds	DITTO		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2008 16"	32mmUV	SAME,DIMMER, CAN'T RESOLVE INDIVIDUAL STARS		
Oct 21 2006 31"	20mmUV	VB,FL,STELLAR, RESOLVABLE		
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP		
Oct 31 2004 1.9"	12x50	R=F		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
NGC 7108			Galaxy E	VF,S,R,STELL
Oct 05 2005 31"	17mmT4	F,ML,OVAL,DIFF,FNUC,R=F		
NGC 7120			Galaxy Sb	VF,S,VLE
Sep 13 2007 31"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F		
NGC 7121			Galaxy SB(r)bc?	VF,VS,R,VLBM
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F		
NGC 7164			Galaxy SAB(rs)0+ pec:	EF,R,4VF ST N
Sep 13 2007 31"	17mmT4	CF,PS,OVAL,NND,R=F		
NGC 7165		H930-3	Galaxy SB(r)ab	EF
Sep 13 2007 31"	17mmT4	PB,PS,R,UB,NND,R=F		
NGC 7167			Galaxy SB(s)c:	F,PS,R,VGLBM,*10F
Sep 13 2007 31"	17mmT4	VF,PL,R,NND,AV,R=F		
Sep 05 2007 8"	11mmT6	PF,VS,R,NND,R=F		
NGC 7170			Galaxy SA0-?	VF,PS,IR,BMN,D*P36S
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G		
NGC 7171		H692-3	Galaxy SB(rs)b	VF,CL,E124,VGBM
Oct 05 2005 31"	17mmT4	F,PL,EL,OVAL,NND,R=F		
NGC 7180		H693-3	Galaxy S0^?	VF,S,R,LBM,P OF 2

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NGC 7180		H693-3	Galaxy S0[^]?	VF,S,R,LBM,P OF 2
Sep 13 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G		
NGC 7181			Galaxy S0[^] pec:	EF,VS,STELLAR
Sep 13 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 7182			Galaxy SB(rs)0+:	EF,VS,STELLAR
Sep 13 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 7183		H595-2	Galaxy S0+ pec sp	VF,PL,E90,LBM
Sep 13 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G		
NGC 7184		H1-2	Galaxy SB(r)c	PB,PL,ME64,BET3*,ER
Sep 13 2007 31"	17mmT4	PB,CL,EON,FNUC,HISB,R=G		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7185			Galaxy SAB(rs)0- pec?	VF,PL,IR,VGLBM,F OF2
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G		
NGC 7188			Galaxy (R')SB(rs)bc	EF,PS,E,LBM
Sep 13 2007 31"	17mmT4	PF,PL,EL,OVAL,NND,R=G		
NGC 7189			Galaxy SB(rs)b pec:	F,S,LE
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G		
NGC 7198			Galaxy S0 pec	EF,VS,STELLAR
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,BNUC,HISB,R=G		
NGC 7211			Galaxy S0	EF,S,STELLAR
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,BNC,HISB,R=G		
NGC 7215			Galaxy S0[^]?	VF,S,E
Sep 13 2007 31"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F		
NGC 7218		H897-2	Galaxy SB(rs)cd	PB,LE,R
Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F		
Nov 21 2006 8"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 7220			Galaxy SAB(s)0[^]:	EF,VS,VLE,GBM,*10N3'
Sep 13 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		
NGC 7222			Galaxy SB(r)b	VF,S
Sep 13 2007 31"	17mmT4	PF,PL,R,UB,NND,R=F		
NGC 7247			Galaxy SB(s)b:	PF,VS,R,LBM,BD*P13S
Sep 05 2007 8"	11mmT6	VF,VS,R,AV,R=F		

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NGC 7251 Sep 05 2007 8"	11mmT6	H933-3 VF,VS,R,AV,R=F	Galaxy (R')SA(rs)a?	F,PS,R,GPMBM
NGC 7252 Sep 05 2007 8"	11mmT6	H458-3 PF,PS,OVAL,NND,AV,R=F	Galaxy (R)SA(r)0^:	F,S,R,ER
NGC 7256 Oct 31 2010 12"	5.5mmN	VF,VS,OVAL,PEXT,UB,NND,R=F,PA=170	Galaxy SBb	3F* IN F NEB
NGC 7260 Sep 13 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	Galaxy	EF,PS,IR
NGC 7266 Sep 13 2007 31"	17mmT4	PB,PS,R,UB,NND,R=F	Galaxy Sa	F,VS,R,ALM STELLAR
NGC 7284 Sep 05 2007 8"	11mmT6	H469-2 VF,VS,R,NND,AV,R=F	Galaxy SB(s)0^ pec	CF,CS,LE,R,D*INV
NGC 7285 Sep 05 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	Galaxy SB(rs)a pec	NEB*1'DIST FROM7284
NGC 7288 Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	Galaxy S0/a pec sp	VF,ES,STELLAR
NGC 7293 Oct 09 2018 12" Sep 05 2010 12" Nov 09 2004 8"	8mm Et 11mmT6 11mmT6	F,L,R=G. LP2 B,PS,R=G. CENTRAL STAR NOT NOTED. OIII FILTER ADDS DETAIL. NICE - ALMOST ROUND PATCH! LARGE.	Planetary Neb 4+3	PF,VL,E OR BIN
NGC 7300 Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F	Galaxy SAB(rs)b:	VF,CS,E,VGLBM
NGC 7302 Sep 12 2010 12"	5.5mmN	H31-4 CF,CS,OVAL,MEXT,UB,NND,R=F,PA=165	Galaxy SA(s)0-:	F,PS,R,VSMBMSN
NGC 7309 Sep 12 2010 12"	5.5mmN	H476-2 VF,PS,R,UB,NND,R=F	Galaxy SAB(rs)c	VF,PL,R,GLBM,R
NGC 7341 Oct 09 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	Galaxy SAB(r)ab:	PF,PS,E,LBM
NGC 7344 Sep 13 2007 31"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F	Galaxy (R')SB(r)ab	PF,VS,R
NGC 7351 Sep 13 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G	Galaxy SAB0^:	PF,PS,R,BM,R

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NGC 7359		Galaxy S0[^]: sp	PF,VS,PME,BMN
Oct 09 2007 8"	11mmT6	VF,VS,EL,OVAL,NND,AV,R=F	
NGC 7364		H442-2 Galaxy S0/a pec:	F,S,R,PSBM
Sep 13 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G	
NGC 7365		Galaxy SA(rs)0-:	VF,ES,R,GBMN,*11NF4'
Oct 31 2010 12"	5.5mmN	PF,VS,OVAL,UB,NND,R=F	
NGC 7371		H477-2 Galaxy (R)SA(r)0/a:	VF,PL,R,LBM
Sep 05 2007 8"	11mmT6	PF,VS,R,NND,R=F	
NGC 7377		H598-2 Galaxy SA(s)0+	PB,S,VLE,VGMBM,*12P
Nov 09 2004 8"	11mmT6	VF,EL,EON,NND,AV,R=F	
NGC 7391		H443-2 Galaxy E:	CF,CS,R,SBM*13,*NP
Sep 13 2007 31"	17mmT4	PB,PL,OVAL,FNUC,HISB,R=G	
NGC 7392		H702-2 Galaxy SA(s)bc	PB,PS,LE120,MBM
Oct 09 2007 8"	11mmT6	VF,PS,OVAL,NND,R=F	
NGC 7393		H453-2 Galaxy SB(rs)c pec	VF,PL,LE,VGBM,R
Sep 13 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F	
NGC 7416		Galaxy SB(r)b	F,PL,PME,VGBM
Sep 12 2010 12"	5.5mmN	CF,CS,EON,UB,NND,R=F,PA=170	
NGC 7443		H450-2 Galaxy SB(s)0+: sp	F,VS,VLE,SMBM,ER,N-2
Oct 31 2010 12"	5.5mmN	PF,PS,OVAL,PEXT,FNUC,R=F,PA=90. PAIRED WITH NGC-7444	
NGC 7444		H451-2 Galaxy SB(r)0[^]? sp	F,VS,VLE,SMBM,ER,S-2
Oct 31 2010 12"	5.5mmN	CF,PS,OVAL,PEXT,FNUC,R=F,PA=45. PAIRED WITH NGC-7443	
NGC 7492		H558-3 Globular	EF,L,BET2D*
Oct 05 2016 12"	11mmT6	F,PS,R=G	
Sep 05 2007 8"	11mmT6	VF,VS,AV,R=F	
NGC 7585		H236-2 Galaxy (R')SA(s)0+ pec	PB,PS,IR,GBM
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,FNUC,R=F	
NGC 7596		Galaxy S0	VF,PS,LE0,LBMN
Oct 31 2010 12"	5.5mmN	PF,CS,OVAL,PEXT,FNUC,R=F,PA=30	
NGC 7600		H431-2 Galaxy S0- sp	CF,S,R,PSMBM
Nov 13 2007 8"	11mmT6	PF,PS,R,NND,R=F	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	

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NGC 7606		H104-1	Galaxy SA(s)b	PF,CL,PME0
Oct 06 2004 8"	11mmT6	MB,EL,EON,NND,R=G		
NGC 7721		H432-2	Galaxy SA(s)c	PF,CL,E12,VGBM
Nov 09 2004 8"	11mmT6	VF,EL,EON,NND,AV,R=F		
NGC 7723		H110-1	Galaxy SB(r)b	CB,CL,E,GMBM,R
Oct 06 2004 8"	11mmT6	MB,OVAL,NND,R=G		
NGC 7727		H111-1	Galaxy SAB(s)a pec	PB,PL,IR,MBM
Oct 06 2004 8"	11mmT6	MB,OVAL,FNUC,R=G		
PGC 65308			Galaxy L	
Sep 27 2005 31"	17mmT4	VB,ML,OVAL,FNUC,MSB,R=G		
PGC 65331			Galaxy SBbc	
Sep 27 2005 31"	17mmT4	VF,VS,R,NND,AV,R=F		
PGC 65391			Galaxy Scd	
Sep 27 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F		
PGC 65444			Galaxy SBab	
Sep 13 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F		
PGC 65927			Galaxy	
Nov 02 2010 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,AV3		
PGC 66242			Galaxy SB(rs)bc:	
Sep 27 2005 31"	17mmT4	VF,VL,OVAL,PATCH,NND,R=F		
PGC 66265			Galaxy	
Sep 27 2005 31"	17mmT4	VS,VF,R,NND,R=F		
PGC 66279			Galaxy E	
Sep 27 2005 31"	17mmT4	MF,ML,R,NND,R=F		
PGC 66590			Galaxy SBcd:	
Oct 05 2005 31"	17mmT4	VF,ML,EL,NND,R=F		
PGC 66904			Galaxy SAB(s)bc pec?	
Sep 13 2007 31"	17mmT4	CF,PL,R,NND,AV,R=F		
PGC 66940			Galaxy S	
Oct 05 2005 31"	17mmT4	PF,PS,R,NND,AV,R=F		
PGC 67282			Galaxy Scd: sp	
Sep 13 2007 31"	17mmT4	VF,PS,EON,NND,AV,R=F		

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PGC 68229

Sep 13 2007 31" 17mmT4 PF,PS,R,NND,AV,R=F

Galaxy S

PGC 68240

Sep 13 2007 31" 17mmT4 PF,PS,R,NND,R=F

Galaxy

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

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

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PGC 9888

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

Galaxy Scd:

PGC 10044

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

Galaxy IB(s)m pec

PGC 10046

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

Galaxy SB0/a: sp

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CR 62		Galaxy IV3p	
Dec 28 2006 1.9"	12x50	PF,S,PATCHY,UNRESOLVED,R=F	
IC 405		Nebula E	
Dec 07 2005 8"	11mmT6	DARK DUSTLANE LOW SURFACE BRIGHTNESS	
IC 410		Nebula E	DIF, MANY ST INV
Nov 26 2006 1.9"	19mmW	NEBULA ASSOCIATED WITH NGC 1893	
Nov 21 2006 8"	11mmT6	PB,L,IRREGULARSHAPE,R=G	
Jan 26 2006 8"	19mmW	NEBULA ASSOCIATED WITH NGC 1893	
IC 2120		Planetary Neb Planetary?	5 18.2 +37 36
Nov 21 2006 8"	11mmT6	VF,VS,AV,R=F	
IC 2149		Planetary Neb 3b+2	
Nov 11 2009 12"	7.5mmW	PB,PS,R=G, NO CENTRAL STAR NOTED	
NGC 1664		H59-8	Open Cluster 10.0 III 1 p
Dec 28 2006 1.9"	12x50	F,S,PATCHY,AV,UNRESOLVED,R=F	CL,LRI,LC,PL
Jan 26 2006 8"	19mmW	R=F,NOT TOO BAD	
NGC 1778		H61-8	Open Cluster 10.1 III 2 p
Dec 28 2006 1.9"	12x50	PF,PS,PATCHY,AV,UNRESOLVED,R=F	CL,PC,LRI,IF,ST L
Jan 26 2006 8"	19mmW	R=P FEW STARS	
NGC 1857		H33-7	Open Cluster 11.0 I 3 m
Dec 28 2006 1.9"	12x50	F,S,PATCHY,UNRESOLVED,R=F	CL,PRI,PC,ST7...
Jan 26 2006 8"	19mmW	R=P, FEW STARS	
NGC 1883		H34-7	Open Cluster 14.0 II 1 m
Jan 26 2006 8"	19mmW	R=F, FAINT TIGHT GROUP	CL,VF,PRI,PC,IF
NGC 1893			Open Cluster 9.3 II 3 r n
Nov 26 2006 1.9"	12x50	F,S,R=F	CL,L,RI,LC
Jan 26 2006 8"	19mmW	R=F,DECENT *STARS	
NGC 1907		H39-7	Open Cluster 11.0 I 1 m n
Jan 25 2018 12"	11mmT6	NICE OBJECT	CL,PRI,PC,R,ST9...12
Oct 02 2006 1.9"	12x50	CB,CS,R=F.	
Jan 26 2006 8"	19mmW	R=G, SMALL, TIGHT, BRIGHT	
NGC 1912	M38		Open Cluster 8.0 II 2 r
Jan 25 2018 12"	11mmT6	NICE OBJECT	CL,B,VL,VRI,IF,STL\$\$
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009 12"	20mmUV		

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

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

NGC 1960	M36	Open Cluster 9.0 I 3 r	CL,B,VL,VRI,CL,*9.11
Jan 25 2018 12"	11mmT6	HEATERS WORKED. EVERYTHING WORKED	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009 12"	20mmUV		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS	
Oct 29 2006 8"	19mmW	PB,PL,R,R=G	
Oct 02 2006 1.9"	12x50	PB,S, R=G, SMALLEST OF THREE	
Mar 19 2006 8"	25mmPL	B,ML,R=G. BETTER	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	

NGC 1985	H865-3	Nebula R	CF,S,R,PSBM
Nov 21 2006 8"	11mmT6	F,S,R=P	

NGC 2099	M37	Open Cluster 11.0 I 2 r	CL,RI,PCM,ST L\$\$
Jan 25 2018 12"	11mmT6	1ST LIGHT. 1ST OBJECT	
Jul 25 2017 12"	11mmT6	1ST LIGHT - 1ST OBJECT. ALL EYEPIECES CAME INTO FOCUS	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009 12"	20mmUV		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS	
Oct 29 2006 8"	19mmW	CB,CL,R,R=G	
Oct 02 2006 1.9"	12x50	PB,L,R=G, LARGEST OF THREE	
Mar 19 2006 8"	25mmPL	B,ML,R=E. TIGHTER GROUP. BEST OF 3	
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	

NGC 2126	H68-8	Open Cluster 13.0 III 2 m	CL,NOT RI,*7M NORTH
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Auriga - The Charioteer

NGC 2126		H68-8	Open Cluster 13.0 III 2 m	CL,NOT RI,*7M NORTH
Jan 26 2006 8"	19mmW	R=F, SMALL, LOOSE , GROUP		
NGC 2192		H57-7	Open Cluster 14.0 II 2 m	CL,CL,C,IF,ST VS
Jan 26 2006 8"	19mmW	R=F, SMALL, LOOSE , GROUP		
NGC 2281		H71-8	Open Cluster 8.0 I 3 m	CL,PRI,VLC,ST PL
Nov 26 2006 1.9"	12x50	B,S,RESOLVE 4-5+,R=G		
Nov 09 2006 8"	19mmW	F,PS,R=F		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		

Bootes - The Herdsman

IC 982			Galaxy SA0+	
May 22 2006 31"	19mmW	F,CS,R,NND,R=F		
IC 983			Galaxy SB(r)bc	
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
May 22 2006 31"	19mmW	VF,PL,OVAL,PATCHY,NND,R=F		
MAC 1423+4015			Galaxy	
May 22 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
MAC 1432+3557			Galaxy	
Jun 05 2011 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F		
MAC 1432+3601			Galaxy	
Jun 05 2011 31"	17mmT4	VF,VS,OVAL,UB,NND,AV,R=P		
NGC 5248		H34-1	Galaxy SAB(rs)bc	B,L,E150,PSBMRN
Jul 01 2016 12"	8mm Et	MB,ML,OVAL, FNUC,R=G		
May 04 2005 8"	11mmT6	MB,ML,OVAL,FNUC,R=G		
NGC 5293		H6-5	Galaxy SA(r)c	EF,VL,RESOLVABLE
Jul 05 2016 12"	8mm Et	VF,VS,OVAL,MEXT,UB,NND,R=F		
NGC 5332			Galaxy S0-:	VF,S,R
Jul 05 2016 12"	8mm Et	VF,VS,R,UB,NND,R=F		
NGC 5414			Galaxy S?	S,F*CENTRE,*10,11NF
Jul 05 2016 12"	8mm Et	VF,VS,R,UB,NND,R=F		
NGC 5416		H56-3	Galaxy Scd:	EF,VS,E,R
Jul 05 2016 12"	8mm Et	VF,VS,R,UB,NND,R=F		
NGC 5417		H11-3	Galaxy Sa	CF,S,R,PSBM,*P
Jul 05 2016 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 5423			Galaxy S0-:	VF,R,*IN CENTRE
Jul 05 2016 12"	7mm TV	VF,PS,OVAL,UB,NND,R=F		
NGC 5434A			Non-Existent	
Jul 05 2016 12"	7mm TV	VVF,VS,EON,UB,NND,R=F,AV2		
NGC 5434B			Galaxy Sc	
Jul 05 2016 12"	7mm TV	VVF,VS,EON,UB,NND,R=F,AV2		
NGC 5466		H9-6	Globular	CL,L,VRI,VMC,ST11...
May 30 2016 12"	8mm Et	VF,S,R=G		
May 04 2005 8"	11mmT6	VF,R,R=F		

Bootes - The Herdsman

NGC 5490		H32-3	Galaxy E	CF,CS,R,SBMF**
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 5490C			Galaxy SB(s)bc	
May 22 2006 31"	19mmW	PB,PS,OVAL,FNUC,R=G		
May 22 2006 31"	19mmW	F,CS,OVAL,NND,R=F		
NGC 5492		H876-2	Galaxy Sb pec?	PB,VS,E
Jun 03 2005 31"	11mmT6	MB,ML,EL,EON,NND,R=G		
NGC 5497			Galaxy SB(s)b	EF,S,R,LBM
May 22 2006 31"	19mmW	F,S,OVL,NND,R=F		
NGC 5504A			Non-Existent	
Jul 05 2016 12"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
NGC 5509			Galaxy E/S0	VF,S,R,STELLAR NUCL
Jun 03 2005 31"	11mmT6	MB,VS,OVAL,NND,R=F		
NGC 5513		H877-2	Galaxy S0	PB,PL,IR
Jun 03 2005 31"	11mmT6	MB,MS,EL,FNUC,MSB,R=G		
NGC 5515		H685-3	Galaxy Sab	VF,S,VLE
Jul 05 2016 12"	7mm TV	VF,VS,OVAL,UB,NND,AV,R=F		
NGC 5520		H676-3	Galaxy Sb	F,S,LE,STELLAR
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		
NGC 5523		H134-3	Galaxy SA(s)cd:	F,PL,PME90,*10NP
May 21 2009 16"	11mmT6	PF,PS,EON,UB,NND,R=F		
NGC 5529		H414-3	Galaxy Sc: sp	CF,PL,VME110,VGVMBM
Apr 26 2009 16"	11mmT6	CF,CS,EON,UB,NND,R=F		
May 13 2007 8"	11mmT6	VF,PS,EON,NND,AV,R=F		
NGC 5532A			Non-Existent	
Jul 05 2016 12"	8mm Et	VF,VS,FNUC,R=F,PAIRED W/NGC-5532B		
NGC 5532B			Galaxy S0	
Jul 05 2016 12"	8mm Et	VF,VS,OVAL,UB,NND,R=F,PAIRED W/NGC-5532A		
NGC 5533		H418-2	Galaxy SA(rs)ab	PB,R,VSMBM,20R3*INV
Apr 26 2009 16"	11mmT6	PF,PS,EL,OVAL,FNUC,R=F		
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 5536		H731-3	Galaxy SBa	CF,VS,R,SP OF 2

Bootes - The Herdsman

NGC 5536 May 22 2006 31"	19mmW	H731-3 PB,CS,R,NND,R=G	Galaxy SBa	CF,VS,R,SP OF 2
NGC 5541 May 22 2006 31"	19mmW	H732-3 CB,PL,OVAL,FNUC,R=G	Galaxy S?	CF,S,R,GBM,NF OF 2
NGC 5548 May 13 2007 8"	11mmT6	H194-2 PF,PS,R,NND,R=F	Galaxy (R')SA(s)0/a	CF,PS,R,VSVMBM*
NGC 5557 Mar 29 2006 8"	11mmT6	H99-1 F,S,R,FNUC,R=F	Galaxy E1	CB,S,R,VSBM*
NGC 5559 May 04 2005 8"	11mmT6	H347-3 MB,MS,OVAL,FNUC,R=G	Galaxy SBb	VF,S,VLE,BM
NGC 5580 Jul 01 2016 12"	8mm Et	H731-3 PF,PS,OVAL,NND,R=F	Galaxy SABcd	PB,S,F OF 2
NGC 5582 Apr 29 2011 12" May 21 2009 16"	7mm TV 11mmT6	H754-2 PF,PS,OVAL,BNUC,R=G,PA=95 PF,PS,EL,OVAL,NND,R=F	Galaxy E	PB,PS,R,BMFN,*SP
NGC 5587 Apr 29 2011 12"	7mm TV	H110-3 PF,PS,OVAL,VEXT,UB,NND,R=F	Galaxy S0/a	F,CS,VLE,*8SF
NGC 5590 Apr 26 2009 16"	11mmT6	H417-3 CF,CS,R,UB,NND,R=F	Galaxy S0	CF,S,R,BM*,SF OF 2
NGC 5598 May 22 2006 31"	19mmW	H733-3 PB,PL,OVAL,NND,R=G	Galaxy S0	F,VS,R,BM
NGC 5600 Jul 01 2016 12" Aug 03 2008 8"	8mm Et 11mmT6	H177-2 PF,PS,OVAL,UB,NND,R=F VF,VS,OVAL,NND,AV,R=F	Galaxy Sc pec	PB,PS,GBM
NGC 5602 May 21 2009 16"	11mmT6	H694-2 CF,PS,OVAL,NND,R=F	Galaxy Sa	PF,PS,LE,MBM
NGC 5603 May 22 2006 31"	19mmW	H734-3 F,PL,R,NND,R=F	Galaxy S0	CF,PS,R,GBM
NGC 5611 Jul 01 2016 12"	8mm Et	H731-3 VF,VS,OVAL,UB,NND,R=F	Galaxy S0	F,S,R,BM
NGC 5613 Jun 05 2011 31"	17mmT4	H731-3 CF,CS,OVAL,MEXT,UB,NND,R=F	Galaxy (R)SAB(r)0+	EF,PS,DIF,2'N OF5614

Bootes - The Herdsman

NGC 5614		H420-2	Galaxy SA(r)ab pec	PB,S,R,SMBM
Jun 05 2011 31"	17mmT4	PF,PS,R,BNUC,R=G		
Apr 26 2009 16"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
Aug 03 2008 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 5623		H329-2	Galaxy E	CF,S,R,VSMBM,R
Jul 01 2016 12"	8mm Et	VF,VS,OVAL,UB,NND,R=F		
NGC 5630		H674-2	Galaxy Sdm:	F,S,E90,GBM
Jul 05 2016 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
NGC 5633		H185-1	Galaxy (R)SA(rs)b	CB,PS,R,PGLBM
Jul 01 2016 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
NGC 5635		H132-3	Galaxy S pec	F,S,E,SBM
Jul 05 2016 12"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 5646			Galaxy SBb:	EF,E SPNF,45"L
Jun 05 2011 31"	17mmT4	F,S,OVAL,PEXT,UB,NND,R=F,PA=170, MAG 10 STAR AT SOUTHERN TIP		
NGC 5653		H330-2	Galaxy (R')SA(rs)b	PF,PS,R,BM
Aug 03 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 5656		H421-2	Galaxy Sab	PF,PL,R,MBM,R
Jun 05 2011 31"	17mmT4	PF,PS,R,BNUC,HSB,R=G, POSSIBLE ARM STRUCTURE DETECTED.		
NGC 5660		H695-2	Galaxy SAB(rs)c	PB,L,IR,VGBM
May 21 2009 16"	11mmT6	PB,PL,OVAL,FNC,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5675		H422-2	Galaxy S?	F,PS,E,BM
Jun 05 2011 31"	17mmT4	F,S,OVAL,VEXT,FNUC,HSB,R=F,PA=40		
NGC 5676		H189-1	Galaxy SA(rs)bc	B,L,E45,PGBM,R
Apr 26 2006 8"	11mmT6	F,L,EL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5684		H421-3	Galaxy S0	F,CS,R,BM,P OF 2
Jun 05 2011 31"	17mmT4	PF,PS,R,FNUC,R=F		
NGC 5686			Galaxy Sa	VF,S,R,F OF 2
Jun 05 2011 31"	17mmT4	PF,CS,R,FNUC,R=F		
NGC 5687		H808-2	Galaxy S0-?	PF,S,IF,RESOLVA,*10F
Aug 03 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 5689		H188-1	Galaxy SB(s)0/a:	CB,PL,E87,PSMBM

Bootes - The Herdsman

NGC 5689		H188-1	Galaxy SB(s)0/a:	CB,PL,E87,PSMBM
May 04 2005 8"	11mmT6	MB,ML,EL,FNUC,R=G		
NGC 5695		H423-2	Galaxy S?	PB,CS,R,BM,R
Jun 05 2011 31"	17mmT4	PF,CS,R,BNUC,R=F,DETECTED KNOT ON WEST SIDE.		
NGC 5753			Galaxy	F,BM,NP5754
Jun 05 2011 31"	17mmT4	PF,PS,R,FNUC,HSB,R=G		
NGC 5754		H687-3	Galaxy SB(rs)b	CF,CS,R,BM
Jun 05 2011 31"	17mmT4	PF,S,R,FNUC,HSB,R=G		
NGC 5772			Galaxy SA(r)b:	PB,PL,LE,PSLBM,*8NP
Jun 05 2011 31"	17mmT4	PF,PS,OVAL,PEXT,FNUC,HSB,R=G,PA=120		
NGC 5899		H650-2	Galaxy SAB(rs)c	CB,PL,PME,SMBMN
Aug 03 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
PGC 50693			Galaxy S0/a	
May 22 2006 31"	19mmW	PB,CS,EON,FNUC,R=F		
PGC 50828			Galaxy S	
Jun 03 2005 31"	11mmT6	VF,MS,OVAL,NND,AV,R=F		
PGC 51372			Galaxy SAcD	
May 22 2006 31"	19mmW	PB,PL,OVAL,FNUC,R=G		
PGC 51417			Galaxy S0	
May 22 2006 31"	19mmW	PB,CS,OVAL,FNUC,R=F		
PGC 51443			Galaxy L	
Jun 05 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F		
PGC 51447			Galaxy L	
Jun 05 2011 31"	17mmT4	VF,CS,OVAL,MEXT,UB,NND,R=F		
PGC 51464			Galaxy S	
Jun 05 2011 31"	17mmT4	F,PS,EEXT,UB,FNUC,R=G,PA=40		
PGC 51470			Galaxy SBa	
Jun 05 2011 31"	17mmT4	F,CS,OVAL,VEXT,UB,NND,R=F,PA=170		
PGC 51477			Galaxy Sc	
Jun 05 2011 31"	17mmT4	VF,CS,OVAL,VEXT,UB,NND,R=F,PA=60		
PGC 51503			Galaxy Sd	
May 22 2006 31"	19mmW	F,PL,EON,NND,R=F		

Bootes - The Herdsman

PGC 51692		Galaxy SBab
Jun 05 2011 31"	17mmT4	VF,CS,OVAL,UB,NND,R=G
PGC 51792		Galaxy S
Jun 05 2011 31"	17mmT4	CF,VS,OVAL,UB,NND,R=F,PAIRED W/PGC51800
PGC 51800		Galaxy Sa
Jun 05 2011 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,PAIRED WPGC51792
PGC 51872		Galaxy Sc
Jun 05 2011 31"	17mmT4	F,VS,OVAL,UB,NND,AV,R=F
PGC 51881		Galaxy L
Jun 05 2011 31"	17mmT4	F,S,R,UB,NND,R=F
PGC 51928		Galaxy S
Jun 05 2011 31"	17mmT4	CF,CS,OVAL,VEXT,UB,NND,R=F
PGC 52027		Galaxy SBb
Jun 05 2011 31"	17mmT4	DIFF,VF,CS,R,UB,NND,R=F
PGC 52160		Galaxy S0
Jun 05 2011 31"	17mmT4	PF,CS,EON,FNUC,R=F
PGC 52183		Galaxy S0/a
Jun 05 2011 31"	17mmT4	PF,CS,R,BNUC,R=G
PGC 52301		Galaxy SBR
Jun 05 2011 31"	17mmT4	VF,VS,R,UB,NND,AV,R=P
PGC 52358		Galaxy
Jun 05 2011 31"	17mmT4	VF,ES,OVAL,UB,NND,R=F
PGC 52373		Galaxy Sc
Jun 05 2011 31"	17mmT4	VF,VS,R,UB,NND,AV,R=P

Canis Major - The Big Dog

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

Canis Major - The Big Dog

NGC 2272		Galaxy SAB(s)0-	PF,PS,VLE,BM,R
Feb 10 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F	
NGC 2280		Galaxy SA(s)cd	PF,PL,LE,GBM
Feb 10 2005 8"	11mmT6	DIFFUSE,MF,ML,EL,OVAL,NND,R=G	
NGC 2283	H271-3	Galaxy SB(s)cd	3OR4S*+NEB
Feb 10 2005 8"	11mmT6	MB,ML,OVAL,PATCHY,FNUC,R=G	
NGC 2287	M41	Open Cluster 8.0 I 3 r	CL,VL,B,LC,ST 8...
Jan 02 2016 1.9"	12x50	SOFT PATCH OF STARS ABOUT 4 DEGREES WEST OF 3-STAR ASTERISM.	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007 1.9"	12x50	VB,VL,NND,R=G, RESOLVE 12+	
Mar 19 2006 8"	25mmPL	B,L,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
Dec 30 2003 8"	25mmPL	H/M COLD.	
NGC 2293		Galaxy SAB(s)0+ pec	PB,R,GBM,DWI92,AM ST
Nov 22 2006 8"	11mmT6	VF,VS,OVAL,AV,R=G	
NGC 2296		Nebula E	VF,VS,R
Mar 20 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
NGC 2325		Galaxy E4	PB,PL,LE,GBM
Feb 10 2005 8"	11mmT6	MF,MS,OVA,PATCHY,NND,R=F	
NGC 2327	H25-4	Nebula	PB**INV INS,VF,NEB
Mar 28 2011 12"	7mm TV	SMALL,FAINT,R=F,OIII	
NGC 2345		Open Cluster 9.0 II 3 r	CL,PL,PRI,GBM,*10.14
Feb 10 2005 8"	11mmT6	ML,R=G	
NGC 2351		Non-Existent	CL,LC,**TAKEN
Feb 17 2012 18"	17mmT4	OIII FILTER - THOR'S HELMUT - GREAT OBJECT	
NGC 2354	H16-7	Open Cluster 9.1 III 2 r	CL,CRI,LC
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 2359	H21-5	Nebula E	VF,VVL,VIF
Dec 12 2012 36"	17mmT4	OUSTANDING OBJECT WOIII FILTER AND VERY GOOD TRANSPARENCY.	
Apr 14 2010 16"	26mm	PB,PL,OVAL,UB,NND.R=G	
Dec 28 2008 31"	31mmT5	PB,PL,R=E!!, BEAUTIFUL	
Mar 10 2007 8"	19mmW	PB,L,NEBULOSITY,R=G,OIII FILTER	

Canis Major - The Big Dog

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

Canis Minor - The Little Dog

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

Canes Venatici - The Hunting Dogs

IC 4277			Galaxy	
May 14 2017 12"	11mmT6	B,PS,R,BNUC,R=G		
MAC 1354+4015			Galaxy	
May 12 2005 31"	19mmW	MB,VS,R,FNUC,R=F		
MAC 1354+4028			Galaxy	
May 12 2005 31"	19mmW	VF,VS,OVAL,NND,R=F		
MAC 1355+4002			Galaxy	
May 12 2005 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
MAC 1356+3817			Galaxy	
May 12 2005 31"	19mmW	VF,VS,OVAL,NND,R=F		
MAC 1356+3818			Galaxy	
May 12 2005 31"	19mmW	VF,VS,R,NND,AV,R=F		
MAC 1356+3818A			Galaxy	
May 12 2005 31"	19mmW	VF,MS,EL,OVAL,NND,R=F		
MAC 1356+3821			Galaxy	
May 12 2005 31"	19mmW	MF,MS,OVAL,NND,R=F		
MAC 1356+3825			Galaxy	
May 12 2005 31"	19mmW	VF,MS,R,NND,AV,R=F		
MAC 1356+3829			Galaxy	
May 12 2005 31"	19mmW	VF,VS,R,NND,AV,R=F		
NGC 4111		H195-1	Galaxy SA(r)0+:	sp VB,PS,ME151
Apr 13 2005 8"	11mmT6	VB,ML,EON,FNUC,MSB,R=G		
NGC 4138		H196-1	Galaxy SA(r)0+	B,PL,E,VGBM,*NP
Mar 26 2009 16"	17mmT4	PB,PS,OVAL,FNUC,R=F		
NGC 4143		H54-4	Galaxy SAB(s)0^	CB,R,VG,VSBMN
Mar 29 2006 8"	19mmW	DIFF,F,L,OVAL,NND,R=F		
NGC 4151		H165-1	Galaxy (R')SAB(rs)ab:	VB,S,R,VSMBMBN,P OF2
Mar 29 2006 8"	11mmT6	F,S,OVAL,NND,R=F		
NGC 4156		H642-2	Galaxy SB(rs)b	PF,S,E,VGBM,F OF 2
Mar 29 2006 8"	11mmT6	F,PS,R,NND,R=F		
NGC 4183		H697-3	Galaxy SA(s)cd? sp	VF,CL,ME170
Mar 16 2012 18"	8.8 ES	PF,S,EON,UB,NND,R=F,A.L. FLAT GALAXY		

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NGC 4214		H95-1	Galaxy IBm	CB,CL,IE,BIN
Mar 29 2006 8"	11mmT6	F,PS,R,NND,R=F		
NGC 4217		H748-2	Galaxy Sb sp	PF,L,ME45,**N,P OF 2
Mar 26 2009 16"	17mmT4	VF,VS,OCAL,NND,R=F		
NGC 4220		H209-1	Galaxy SA(r)0+	CB,PL,PME134,PSBM
Mar 26 2009 16"	17mmT4	PF,PS,EL,OVAL,FNUC,USB,R=F		
NGC 4244		H41-5	Galaxy SA(s)cd: sp	PB,VL,EE43,VGBM
May 04 2005 8"	19mmW	MB,ML,EL,EON,FNUC,R=G		
NGC 4248		H742-2	Galaxy I0? sp	VF,S,PME,PSBM
Mar 26 2009 16"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
NGC 4258	M106	H43-5	Galaxy Sb	VB,VL,VME0,SBMBN
Jul 08 2018 12"	8mm Et	B,S,OVAL,MEXT,BNUC,R=G		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 26 2006 8"	19mmW	MB,ML,OVAL,FNUC,MSB,,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 4346		H210-1	Galaxy S0 sp	VF,S,ME100,VSBMBN
Mar 29 2006 8"	11mmT6	F,S,EON,FNUC,R=F		
NGC 4369		H166-1	Galaxy (R)SA(rs)a	CB,S,R,MBMN,R
Mar 26 2009 16"	17mmT4	PF,PS,OVAL,USB,R=F		
NGC 4389		H749-2	Galaxy SB(rs)bc pec:	PB,PL,IE,VGLBM
Apr 06 2010 12"	11mmT6	VF,CS,OVAL,NND,AV,R=F		
NGC 4395		H29.1-5	Galaxy SA(s)m:	EF,VL,NP OF DNEB
Apr 06 2010 12"	11mmT6	DIFF,PF,PL,OVAL,UB,NND,R=F		
May 21 2009 16"	17mmT4	PF,PL,R,LSB,R=F		
NGC 4449		H213-1	Galaxy IBm	VB,CL,ME,DORBIFID,*F
Mar 13 2007 8"	11mmT6	PB,PL,OVAL,FNUC,MHISB,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
NGC 4485		H197-1	Galaxy IB(s)m pec	B,PS,IR,NP OF 2
Mar 29 2006 8"	11mmT6	PF,PS,R,NND,R=F		
NGC 4490		H198-1	Galaxy SB(s)d pec	VB,VL,ME130,R,SF OF2
Mar 29 2006 8"	11mmT6	F,S,OVAL,FNUC,R=F		

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NGC 4490		H198-1	Galaxy SB(s)d pec	VB,VL,ME130,R,SF OF2
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 4618		H178-1	Galaxy SB(rs)m	B,L,E,MBM,CVDBRANCHN
Apr 14 2010 16"	11mmT6	PF,PS,R,NND,R=F		
Apr 06 2010 12"	11mmT6	DIFF,PF,PS,R,NND,R=F		
Mar 29 2006 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
NGC 4625		H660-2	Galaxy SAB(rs)m pec	PF,S,R
Apr 14 2010 16"	11mmT6	PF,PS,R,UB,NND,R=F		
Apr 06 2010 12"	11mmT6	PF,CS,OVAL,NND,AV,R=P		
NGC 4627		H659-2	Galaxy E4 pec	F,S,R,NP OF 2
May 04 2005 8"	19mmW	MF,VS,OVAL,NND,R=F		
NGC 4631		H42-5	Galaxy SB(s)d sp	VB,VL,EE70,BMN,*ATTN
May 04 2005 8"	19mmW	MB,ML,EL,EON,FNUC,R=G		
NGC 4656		H176-1	Galaxy SB(s)m pec	PB,L,VME34,SP OF 2
May 04 2005 8"	11mmT6	VF,ML,EL,EON,NND,R=F		
NGC 4736	M94		Galaxy (R)SA(r)ab	VB,L,IR,VSVMBMBN,R
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007 1.9"	12x50	PF,S,R,NND,R=F		
Mar 26 2006 8"	19mmW	PB,S,OVAL,BNUC,HISB,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 4800		H211-1	Galaxy SA(rs)b	PB,CS,R,PSBM,*14P
Mar 29 2006 8"	11mmT6	PF,PS,R,NND,R=F		
NGC 4861		H30-4	Galaxy SB(s)m:	VF,PL,VME30,BET2ST
Apr 06 2010 12"	11mmT6	PF,PS,EON,NND,AV,R=F		
NGC 4914		H645-2	Galaxy E	PB,CS,R,SMBM,*17NP
Mar 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F		
NGC 4956		H413-2	Galaxy S0	PB,CS,R,SMBM
Mar 28 2011 12"	7mm TV	PF,CS,R,FNUC,R=F		
NGC 5005		H96-1	Galaxy SAB(rs)bc	VB,VL,VME66,VSBMN
Apr 06 2010 12"	11mmT6	PB,PS,EON,BNUC,R=G		
Apr 26 2006 8"	11mmT6	PB,PL,EON,BNUC,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		

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NGC 5023		H664-2	Galaxy Scd: sp	PF,L,ME20,VLBM
Mar 28 2011 12"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=90		
NGC 5033		H97-1	Galaxy SA(s)c	VB,PL,E167,SMBMVB
Apr 06 2010 12"	11mmT6	PF,PS,EXT,OVAL,UB,NND,R=F		
Apr 26 2006 8"	11mmT6	B,L,EON,ND,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
NGC 5055	M63		Galaxy SA(rs)bc	VB,L,PME120,VSMBMBN
May 14 2017 12"	11mmT6	R=E		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	F,FL,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	PB,PL,EON,BNUC,HISB,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 5103		H665-2	Galaxy S?	PB,CS,E
Mar 28 2011 12"	7mm TV	PF,VS,OVAL,UB,NND,R=F		
NGC 5112		H646-2	Galaxy SB(rs)cd	F,L,IR,VGLBM
Apr 06 2010 12"	11mmT6	DIFF,PF,PS,OVAL,NND,R=P		
NGC 5127		H328-2	Galaxy E pec	PB,PL,R,GMBM,**P
Apr 06 2010 12"	11mmT6	DIFF,PF,PS,OVAL,NND,R=P		
NGC 5145		H667-2	Galaxy S?	PB,VS,VLE,GLBM
Apr 06 2010 12"	11mmT6	PF,CS,OVA,UB,NND,R=F		
NGC 5173		H672-3	Galaxy E0:	F,VS,R,STELLAR
Apr 06 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=P		
NGC 5194	M51		Galaxy SA(s)bc pec	GREAT SPIRAL NEBULA
Apr 20 2018 12"	11mmT6			
May 14 2017 12"	11mmT6	B,S,R,BNUC,R=E. SOME STRUCTURE NOTED IN ARMS		
Apr 14 2016 12"	8mm Ds	R,S,R,FNUC,R=G,FAINT STRUCTURE NOTED		
Aug 21 2015 12"	11mmT6	MOON WAS 7 DAYS OLD. NOT THE BEST FOR GALAXIES.		
Jul 15 2015 12"	17mmT4	JUST CRUSIN'		
May 23 2015 12"	8mm Ds	CAN JUST SEE SPIRAL STRUCTURE		
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
May 30 2014 36"	17mmT4	GREAT VIEW. SPIRAL STRUCTURE NOTED.		
May 30 2014 18"	8mm Ds	MORE DETAIL THAN THE 36". M51 AT ZENITH.		
Jul 13 2013 18"	7mm TV	MORE EYE CANDY - WHIRLPOOL GALAXY		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Jul 04 2011 12"	7mm TV	SUPERNOVE SEEN, REMARKABLE ARM STRUCTURE, R=GREAT		

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NGC	5194	M51	Galaxy SA(s)bc pec	GREAT SPIRAL NEBULA
	Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
	Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
	Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
	Jan 11 2007	1.9"	12x50	VB,PL,OVAL,BNUC,R=G
	Mar 26 2006	8"	19mmW	VB,PL,OVAL,BNUC,R=G
	Apr 08 2005	31"	28mm	VB,VL,OVAL,BNUC,R=E!!
	Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
	Dec 30 2003	8"	25mmPL	H/M COLD
NGC	5195	H186-1	Galaxy I0 pec	B,PS,LE,VGBM,INV-M51
	Apr 20 2018	12"	11mmT6	
	Apr 14 2016	12"	8mm Ds	F,PS,R,UB,NND,R=F,COULD NOT SEE LINK TO M51
	Aug 21 2015	12"	17mmT4	
	May 23 2015	12"	8mm Ds	COMPANION TO M51
	May 30 2014	36"	17mmT4	GREAT VIEW.
	May 30 2014	18"	8mm Ds	MORE DETAIL THAN THE 36". AT ZENITH
	Jul 13 2013	18"	7mm TV	MORE EYE CANDY - MAYTAG GALAXY
	Apr 26 2006	8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G
	Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL
NGC	5198	H689-2	Galaxy E1-2:	PF,PS,R,MBM
	Apr 06 2010	12"	11mmT6	PF,CS,R,UB,NND,R=F
NGC	5272	M3	Globular	GCL,EB,VL,VSMBM,*11.
	Apr 20 2018	12"	11mmT6	
	May 14 2017	12"	17mmT4	NICE OBJECT. FIRST GLOBULAR OF THE SEASON
	Aug 07 2016	12"	8mm Et	BRIGHT,SMALL,R=G
	May 30 2016	12"	8mm Et	B,L,R=G. VERY NICE
	May 23 2015	12"	8mm Ds	GOOD SHOW
	Sep 19 2014	12"	17mmAT	B,L,R=F, HOME - 8-14-14
	Mar 16 2012	18"	17mmAT	2012 M.M.
	Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
	Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
	Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
	Jul 21 2007	1.9"	12x50	PB,S,R=G, SAME FOV AS C/2006-VZ13
	Mar 10 2007	1.9"	12x50	F,PS,R=F
	Mar 26 2006	8"	19mmW	PB,PL,R,HSB,R=G
	Apr 04 2005	8"	11mmT6	LARGE, BRIGHT & ROUND!!!
	Aug 14 2004	8"	11mmT6	LARGER THAN I THOUGHT
	Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**
	Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
	Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS
NGC	5273	H98-1	Galaxy SA(s)0^	CB,PL,R,G,PSMBM
	Mar 29 2006	8"	11mmT6	PF,PS,R,NND,AV,R=F

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NGC 5350 May 12 2005 31"	19mmW	H713-2 VB,ML,OVAL,FNUC,MSB,R=G	Galaxy SB(r)b	CF,PL,BM,*7P,1ST OF 4
NGC 5353 May 12 2005 31"	19mmW	H714-2 VB,ML,OVAL,BNUC,PHISB,R=G	Galaxy S0 sp	PB,S,R,2ND OF 4
NGC 5354 May 12 2005 31"	19mmW	H715-2 VB,ML,OVAL,BNUC,R=G	Galaxy S0 sp	PF,S,R,3RD OF 4
NGC 5355 May 12 2005 31"	19mmW	H699-3 MB,ML,EL,OVAL,FNUC,R=G	Galaxy S0?	VF,PS,4TH OF 4
NGC 5358 May 12 2005 31"	19mmW	H716-2 MB,FS,EL,OVALFNUC,R=G	Galaxy S0/a	VF,VS,R,2VF*INV
NGC 5371 May 12 2005 31"	19mmW	H716-2 MB,ML,OVAL,BNUC,HISB,R=G	Galaxy SBbc	PB,L,R,BM FN
NGC 5383 Mar 28 2011 12"	7mm TV	H181-1 PF,PS,R,FNUC,R=G	Galaxy (R')SB(rs)b: p	CB,CL,R,GBM
NGC 5440 Mar 28 2011 12"	7mm TV	H416-2 PF,PS,OVAL,VEXT,FNUC,R=G	Galaxy Sa	PF,CS,LE,BM,*11SP
NGC 5444 Mar 28 2011 12"	7mm TV	H417-2 DIFF,CF,PS,OVAL,MEXT,UB,R=F	Galaxy E+:	PB,PL,IVLE,VSM BM
NGC 5445 Mar 28 2011 12"	7mm TV	H413-3 CF,CS,OVAL,VEXT,UB,NND,R=F	Galaxy S0?	F,*13P
PGC 49480 May 12 2005 31"	19mmW	H413-3 VF,ML,OVAL,NND,R=F	Galaxy SBb	
PGC 49542 May 12 2005 31"	19mmW	H413-3 VB,VS,EL,EON,BNUC,R=G	Galaxy Sdm:	

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

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

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

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

Camelopardus - The Giraffe

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

Camelopardus - The Giraffe

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

Capricornus - The Horned Goat

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

Capricornus - The Horned Goat

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

Capricornus - The Horned Goat

NGC 7099	M30		Globular	GCL,B,L,LE,GPMBM
Aug 16 2006 1.9"	12x50	PF,S,R=F		
Aug 12 2005 8"	7.5mmW	B,L,R=G, RESOLVE OUTER STARS		
Jun 19 2004 8"	25mmPL	*** LAST MESSIER OBJECT ***		
NGC 7103			Galaxy E+1	VF,VS,R,GBM,1ST OF 2
Sep 28 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F		
NGC 7104			Galaxy E0 pec:	VF,VS,IR,GBMN,2NDOF2
Sep 28 2008 31"	17mmT4	F,S,R,UB,NND,R=F		
NGC 7131			Galaxy (R')SA(rs)0^?	VF,S,VLE,VGBM
Sep 28 2008 31"	17mmT4	PF,CS,EL,OVAL,UB,NND,R=F		
PGC 64548			Galaxy SA(rs)cd	
Aug 24 2005 8"	7.5mmW	VF,VS,R,NND,R=F		
PGC 64672			Galaxy Sc	
Sep 28 2008 31"	17mmT4	CF,ES,R,NND,AV,R=F		
PGC 64907			Galaxy IBm pec	
Sep 28 2008 31"	17mmT4	EF,VS,OVAL,NND,AV,R=F		
PGC 65555			Galaxy Scd? sp	
Sep 28 2008 31"	17mmT4	VF,S,OVAL,NND,R=F		
PGC 65923			Galaxy SB(rs)0+ pec:	
Sep 27 2005 31"	17mmT4	MB,ML,OVAL,FNUC,MSB,R=F		

Cassiopeia - The Queen

CR	463		Galaxy III2m	
Oct 13 2006	1.9"	12x50	B,S,R=F	
IC	10		Galaxy IBm	
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	
IC	59		Nebula E+R	
Sep 05 2007	8"	11mmT6	PF,L,R=F	
IC	63		Nebula E+R	
Oct 21 2012	8"	11mmT6	PF,PS,Y-SHAPED,R=F	
Sep 05 2007	8"	11mmT6	PF,PS,R=P	
IC	166		Open Cluster 17.0 II 1 r	
Sep 05 2007	8"	11mmT6	B,S,LOOSE GROUPD,R=F	
IC	289		Planetary Neb 4+2	
Aug 31 2010	12"	7mm TV	PF,PS,R=F. NO CENTRAL STAR NOTED.	
IC	1590		Open Cluster 9.0 n	
Oct 31 2010	12"	11mmT6	R=F, SMALL GROUP SOME NEBULOSITY	
Sep 12 2010	12"	11mmT6	PF,PS,R=P,STARS 6+ SOME ASSOCIATED NEBULOSITY	
IC	1747		Planetary Neb 3b	
Oct 31 2010	12"	7mm TV	VF,VS,R=P. STELLAR	
Sep 12 2010	12"	5.5mmN	PF,VVS,R=P,STELLAR	
IC	1795		Non-Existent	
Sep 05 2007	8"	11mmT6	PF,PL,DIM,R=F	
IC	1805		Open Cluster E	
Aug 12 2005	8"	19mmW	MB,ML,R=G	
IC	1848		Open Cluster 7.1 I 3 p n	
Sep 05 2007	8"	11mmT6	B,L,FEW STARS,R=F	
IC	1871		Nebula E	
Sep 05 2007	8"	11mmT6	PF,PS,R=F	
NGC	103		Open Cluster 11.0 II 1 m	CL,PS,PC,*11...18
Sep 05 2007	8"	11mmT6	F,S,SCATTERED STARS,R=F	
NGC	110		Open Cluster 9.7 IV 1 p cl	CL,PR,LC,*9...12
Oct 21 2012	8"	11mmT6	LARGE, LOOSE, GROUP,R=P	

Cassiopeia - The Queen

NGC 129		H79-8	Open Cluster 11.0 III 2 m	CL,VL,PR,LC,*9...13
Oct 21 2012 8"	11mmT6	B,L,R=G		
Nov 26 2006 1.9"	12x50	F,L,DIM,RESOVLE 2-3 STARS,R=F		
Nov 09 2006 8"	19mmW	20+, LOOSE, SOME NEB. R=F		
Oct 06 2004 8"	7.5mmW	OVAL,R=G		
NGC 133			Open Cluster IV 1 p	CL,PL,*10...,D*INV
Sep 05 2007 8"	11mmT6	B,S,R=F		
NGC 136		H35-6	Open Cluster 13.0 II 1 p	GCL,VF,S,EC
Nov 03 2004 8"	11mmT6			
NGC 146			Open Cluster 11.6 II 2 p	CL,PL,LC,*11-12,D*
Sep 05 2007 8"	11mmT6	B,S,R=F		
NGC 147			Galaxy E5 pec	VF,VL,IR,GSMBM*11
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 185		H707-2	Galaxy E3 pec	PB,VL,IR,VGMBM,R
Jul 23 2006 8"	11mmT6	VF,PL,OVAL,NND,AV,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 189			Open Cluster 11.0 III 1 p	CL,PL,R,*11...15
Dec 05 2015 12"	17mmT4			
Sep 05 2007 8"	11mmT6	F,S,R=F		
NGC 225		H78-8	Open Cluster 9.3 III 1 p n	CL,L,LC,*9...10
Jul 08 2018 12"	17mmT4	B,S,R=G		
Sep 24 2016 12"	11mmT6	B,L,R=F. SAILBOAT CLUSTER		
Dec 05 2015 12"	17mmT4			
Oct 21 2012 8"	11mmT6	PF,PS,STARS=22-30,R=G		
Sep 15 2004 8"	11mmT6	LIGHT CLOUDS IN & OUT		
NGC 278		H159-1	Galaxy SAB(rs)b	CB,PL,R,2*10NR
Oct 05 2016 12"	11mmT6	F,S,FNUC,R=G		
Jul 23 2006 8"	11mmT6	PF,CS,R,NND,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 281			Nebula E	F,VL,DIF,STRIP*NP
Oct 09 2018 12"	8mm Et	F,PL,R=F. BRIGHT NEBULA. NEEDS DARK SKIES. PAC-MAN		
Sep 24 2016 12"	17mmT4	B,L,R=G. NEEDS OIII.		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	8mm Ds	LP2 FILTER		
Oct 26 2014 12"	17mmT4	PAC-MAN NEBULA. GREAT W/OIII FILTER		
Oct 07 2010 12"	17mmAT	F,L,R=G,OIII FILTER, PAC MAN		
Sep 15 2004 8"	11mmT6	NEBULA NOT SEEN!		

Cassiopeia - The Queen

NGC 366			Open Cluster 10.0 II 3 m	CL,S
Oct 24 2012 8"	11mmT6	SMALL,FAINT,STARS=6+,R=P		
NGC 381		H64-8	Open Cluster 10.0 III 1 m	CL,PC
Sep 15 2004 8"	11mmT6	LIGHT CLOUDS IN & OUT		
NGC 433			Open Cluster 9.0 III 2 p	CL,S,LC
Oct 24 2012 8"	11mmT6	VS,VF,R=P		
NGC 436		H45-7	Open Cluster 10.0 I 2 m	CL,S,IF,PC
Oct 21 2012 8"	11mmT6	PF,PS,STARS=12-15,R=F		
Nov 26 2006 1.9"	12x50	F,PS,DIM PATCH,R=F		
Sep 19 2004 8"	7.5mmW	TYPICAL CLUSTER		
NGC 457		H42-7	Open Cluster 8.6 II 3 r	CL,B,L,PRI,*7,8,10
Sep 24 2016 12"	11mmT6	B,L,R=G. OWL CLUSTER		
Dec 05 2015 12"	17mmT4	E.T. CLUSTER. AKA OWL CLUSTER		
Oct 21 2012 8"	11mmT6	F,S,STARS=50-60,R=G		
Nov 26 2006 1.9"	12x50	F,L,DIM,PATCHY,R=F		
Nov 09 2006 8"	19mmW	30+,CROSS SHAPED,R=F		
Jul 23 2006 8"	7.5mmW	CB,PL,R=G,EXTENDED GROUP		
Dec 31 2003 8"	25mmPL	H/M COLD		
NGC 559		H48-7	Open Cluster 9.0 I 1 m	CL,B,PL,PRI
Oct 21 2012 8"	11mmT6	B,S,V-SHAPE W/V-TOWARDSNE,SOME NEBULOSITY NOTED,R=G		
Oct 06 2004 8"	7.5mmW	HISB,R=F		
NGC 581	M103		Open Cluster 9.0 II 2 m	CL,PL,B,R,RI,*10..11
Oct 09 2018 12"	35mm A	PRETTY NICE		
Dec 05 2015 12"	17mmT4			
Oct 21 2012 8"	11mmT6	B,S,R=G		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 20 2006 1.9"	12x50	PB,PL,R=G		
Mar 19 2006 8"	25mmPL	PB,FL,OVAL,R=G. BRIGHTER STARS		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 609			Open Cluster 14.0 II 3 r	CL,S,PRI,*14...
Sep 05 2007 8"	11mmT6	F,S,SCATTERED STARS,R=F		
NGC 637		H49-7	Open Cluster 8.0 I 2 m	CL,PS,B\$VF ST
Oct 21 2012 8"	11mmT6	B,S,Y-SHAPED STARS=10-12,SOME NEBULOSITY NOTED,R=G		
Oct 06 2004 8"	7.5mmW	R=F, NOT MANY STARS		

Cassiopeia - The Queen

NGC 654		H46-7	Open Cluster 10.0 II 2 r	CL,IF,RI,1*6.7,
Oct 21 2012 8"	11mmT6	F,S,LOOSE,STARS=15-20,R=F		
Sep 15 2004 8"	11mmT6	FEWER STARS		
NGC 657			Open Cluster 7.1	CL,PRI,ST12
Oct 24 2012 8"	11mmT6	VS,VF,R=P		
NGC 659		H65-8	Open Cluster 10.0 I 2 m	CL,LRI,ST B
Oct 21 2012 8"	11mmT6	PF,PS,STARS=10-12,R=F		
Sep 15 2004 8"	11mmT6	SMALLEST OF THREE IN GROUP		
NGC 663		H31-6	Open Cluster 9.0 II 3 r	CL,B,L,ERI,ST PL
Oct 09 2018 12"	8mm Et	B,L,R=G		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	8mm Ds			
Oct 21 2012 8"	11mmT6	B,L,LOOSE,STGARS=40-60,R=G		
Nov 26 2006 1.9"	12x50	F,CS,PATCHY,R=F		
Nov 09 2006 8"	19mmW	LOOSE, CLUSTERED SOUTHERN HALF,R=F		
Sep 15 2004 8"	11mmT6	NICE - LOTS OF STARS		
NGC 743			Open Cluster 10.0 IV 1 p	CL,NOTRI,D*
Oct 24 2012 8"	11mmT6	PF,L,LOOSER GROUP,R=F		
NGC 886			Open Cluster 11.0 IV 2 p	CL,L,LC,SC,ST9...13
Oct 24 2012 8"	11mmT6	F,L,R=F, LAST NGC/IC IN CASSIOPEIA		
NGC 896		H695-3	Nebula E	EF,PL,IF
Oct 18 2009 12"	20mmUV	PF,PS, HINT OF NEBULOSITY		
NGC 1027		H66-8	Open Cluster 9.0 II 3 m n	CL,L,SC ST,ONE10M
Nov 03 2004 8"	11mmT6			
Oct 06 2004 8"	7.5mmW	R=F, SCATTERED STARS		
NGC 1343		H694-3	Galaxy SAB(s)b: pec	F,VS,IR,GBM,D*V NR
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		
NGC 7635		H52-4	Nebula E	VF,*8INV L EXCENTRIC
Oct 05 2016 12"	11mmT6	VF,S,R=F. DETECTED SOME NEBULOSITY W/O OIII. LITTLE BETTER WITH OIII.		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7654		M52	Open Cluster 11.0 II 2 r	CL,L,RI,MCM,R,*9..13
Jan 25 2018 12"	11mmT6	NICE OBJECT		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	17mmT4			
Oct 26 2014 12"	22mmAT	EYE CANDY		
Mar 16 2012 18"	17mmAT	2012 M.M.		

Cassiopeia - The Queen

NGC 7654	M52	Open Cluster 11.0 II 2 r	CL,L,RI,MCM,R,*9..13
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006 1.9"	12x50	B,L,R=G	
Mar 19 2006 8"	25mmPL	PB,FL,R,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	

NGC 7788		Open Cluster I 2 p	CL,S,PRI,VC,*10,13..
Sep 15 2004 8"	11mmT6	LIGHT CLOUDS IN & OUT	

NGC 7789	H30-6	Open Cluster 10.0 II 2 r	CL,VL,VRI,VMC,*11.18
Oct 09 2018 12"	8mm Et	B,L,R=E. BEAUTIFUL CLUSTER. CAROLINE'S ROSE	
Jul 08 2018 12"	17mmT4	CAROLINE'S ROSE. OUTSTANDING	
Dec 05 2015 12"	17mmT4	CAROLINE'S ROSE. VERY NICE	
Nov 26 2006 1.9"	12x50	F,S,R=F	
Nov 09 2006 8"	19mmW	15+,PF,R=F	
Jul 24 2006 8"	11mmT6	PB,PL,R=G	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
Dec 31 2003 8"	25mmPL	H/M COLD	

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

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

Centaurus - The Centaur

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

Cepheus - The King

IC 455		Galaxy S0	
Nov 16 2012 18"	5mm TV	VF,VS,OVAL,NND,R=F	
IC 469		Galaxy SAB(rs)ab:	
Nov 16 2012 18"	5mm TV	VF,VS,OVAL,VEXT,NND,AV2,R=F	
IC 1396		Open Cluster II3mn	
Sep 07 2005 8"	19mmW	**STARS,BRIGHT, NICE DUST LANES,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 40		H58-4	Planetary Neb 3b+3
Oct 05 2016 12"	11mmT6	B,VS,R=G. OIII HELPS.	F,VS,R,VSMBM,*12SP
Nov 11 2009 12"	7.5mmW	B,PS,R=G, CENTRAL STAR VISIBLE	
Oct 06 2004 8"	7.5mmW	MB,R,R=G	
NGC 188		Open Cluster 10.0 I 2 r	CL,VL,R,150-200*
Jul 08 2018 12"	17mmT4	F,S,R=G	
Oct 18 2009 12"	11mmT6	PF,S, R=F, TIGHT GROUP	
NGC 1184		H704-2	Galaxy S0/a
Nov 13 2007 8"	11mmT6	VF,VS,OVAL,NND,R=F	F,PL,ME
NGC 1544		Galaxy S?	VF,VS
Jul 31 2011 12"	5mm TV	VF,VS,R,UB,NND,R=F	
NGC 2276		Galaxy SAB(rs)c	F,60",LBM
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 2300		Galaxy SA0^	PB,PL,LE,BM
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
NGC 6939		H42-6	Open Cluster 11.9 II 1 r
Oct 10 2004 8"	11mmT6	MF,R=F, LARGE O.C. LOTS OF STARS	CL,PL,ERI,PCM,*11.16
Oct 06 2004 8"	7.5mmW	MF,R=F	
NGC 6946		H76-4	Galaxy SAB(rs)cd
Aug 31 2010 12"	7mm TV	DIFF,PF,S,OVAL,MEXT,UB,NND,R=G. PA=180	VF,VL,VG,VSBM,RR
Nov 03 2004 8"	11mmT6	MB,OVAL,NND,MSB,R=G	
Oct 10 2004 8"	11mmT6	MF,OVAL,PATCH,NND,R=F	
NGC 6949		Galaxy S?	EF,PS,IR
Nov 16 2012 18"	5mm TV	VF,VS,R,UB,R=F	
NGC 6951		Non-Existent	PB,PL,LE
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
NGC 6952		Galaxy SAB(rs)bc	PB,OVAL,DIF,*15NR F

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NGC 6952			Galaxy SAB(rs)bc	PB,OVAL,DIF,*15NR F
Aug 25 2011 12"	5mm TV	PF,CS,R,UB,FNUC,R=G		
NGC 7023		H74-4	Nebula R	*7IN EF,EL,NEBY
Jul 08 2018 12"	17mmT4	B,L,R=E. IRIS NEBULA		
Nov 13 2007 8"	19mmW	PF,PS,HINT OF NEBULOSITY,R=F		
NGC 7129		H75-4	Nebula IV 2 p n	CF,PL,GBM***
Nov 13 2007 8"	19mmW	PF,CS,LOOSE CLUSTER, HINT OF NEBULOSITY,R=F		
NGC 7139		H696-3	Planetary Neb 3b	VF,CS,R,R
Oct 18 2009 12"	11mmT6	VF,PS,R=F. NO OTHER DETAIL = FAINT SMUDGE		
NGC 7142		H66-7	Open Cluster 11.0 I 2 r	CL,CL,CRI,PC,*11..14
Nov 03 2004 8"	11mmT6			
NGC 7160		H67-8	Open Cluster 7.0 I 3 p	CL,P,VLC
Jul 21 2007 1.9"	12x50	PF,PS,AV,R=F		
Nov 09 2006 8"	19mmW	VS, COMPRESSED,R=F		
Jul 24 2006 8"	11mmT6	PB,S,R=F		
Aug 23 2004 8"	11mmT6	DAMP - SEEING NOT TOO BAD.		
NGC 7226			Open Cluster 10.8 I 2 m	PB,L,IN CLUSTER
Oct 18 2009 12"	11mmT6	PF,PS,,R=F. RESOLVE OUTER STARTS		
NGC 7235			Open Cluster 8.8 II 3 m	CL,PC,HAS RUBY*10
Jul 21 2007 1.9"	12x50	B,PS,R=F		
NGC 7261			Open Cluster 9.6 II 3 m	CL,L,PRI,LC
Oct 18 2009 12"	11mmT6	PB,PS,R=G. RESOLVE AROUND 20+ STARS		
NGC 7354		H705-2	Planetary Neb 4+3b	PLN,B,S,R,PGVLBM
Sep 07 2005 8"	11mmT6	MB,ML,R,MSB,R=G		
NGC 7380		H77-8	Open Cluster 10.0 III 2 m n	CL,PL,PRI,LC,*9...13
Jul 24 2006 8"	11mmT6	PB,CS,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7419		H43-7	Open Cluster 10.0 I 2 m	CL,PRI,CC
Nov 13 2007 8"	11mmT6	VF,VS,FAINT SMUDGE,R=F		
NGC 7510		H44-7	Open Cluster 10.0 II 3 r n	CL,PRI,PC,FAN-SH,B*P
Mar 04 2006 8"	19mmW	B,S,R=G		
NGC 7538		H706-2	Nebula E	VF,L,2PB*INV
Nov 28 2010 12"	11mmT6	PF,PS,R=F,HINT OF NEBULOSITY, OIII FILTER		

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NGC 7708		H62-8	Open Cluster 7.3 asterism?	CL,L,P,LC,*8,10...15
Oct 24 2012 8"	11mmT6	LARGE AND LOOSE,R=F		
NGC 7762		H55-7	Open Cluster 11.0 II 2 m	CL,PRI,PC,*11...15
Nov 13 2007 8"	11mmT6	PF,PS,FAINT,R=F		
PAL 1			Globular	
Sep 19 2014 18"	8mm Ds	VF,VS,AVII,R=F,, WRO - 9/19/14		
Sep 14 2012 18"	7mm TV	VF,PS,R=F,FAINT SMUDGE OF A GLOBULAR		

Cetus - The Whale

IC 2		Galaxy Sb	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F	
IC 176		Galaxy Sc:	
Dec 12 2012 36"	17mmT4	VF,PS,EON,UB,NND,R=P,PA=95	
IC 194		Galaxy Sb: sp	
Dec 12 2012 36"	17mmT4	VFR,VS,EON,UB,NND,R=P,PA=10	
IC 1529		Galaxy (R')SA(r)0^ p	
Nov 10 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,R=F	
MAC 0237+0716		Galaxy	
Dec 12 2012 36"	17mmT4	VF,VS,R,NND,AV2,R=F	
NGC 17		Galaxy Pec	VF,ES,IR,D*2*P
Dec 12 2012 36"	17mmT4	PB,PS,OVAL,PEXT,BNUC,R=G	
NGC 35		Galaxy Sb	EEF,PS,R
Dec 12 2012 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 45		Galaxy SA(s)dm	EF,L,VGVLBM,L*CONT F
Dec 12 2012 36"	17mmT4	DIFF,PF,PS,OVAL,UB.,NND,R=F	
NGC 47		Galaxy SBbc	VF,VS
Dec 12 2012 36"	17mmT4	PF,PS,R,FNUC,R=F,AKA NGC-58	
NGC 50		Galaxy S0- pec	VF
Dec 12 2012 36"	17mmT4	PF,PS,R,BNUC,R=F	
NGC 62		Galaxy (R)SB(r)a:	F,VS,R,GLBM
Nov 10 2012 18"	7mm TV	PF,VS,OVAL,UB,NND,R=F	
NGC 64		Galaxy SB(s)bc	EEF,VS,R,VDIFFIC
Nov 10 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,R=F	
NGC 132		H855-2 Galaxy SAB(s)bc	PF,CL,R,VGLBM,R
Nov 28 2010 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PA=30	
NGC 151		H478-2 Galaxy SBbc	PF,PL,LE90,VGLBM
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,FNUC,HSB,R=G	
NGC 153		Non-Existent	PF,PS,R,*NR NF
Dec 16 2009 12"	7.5mmW	PF,PS,OVAL,UB,NND,R=F	
NGC 154		H467-3 Galaxy E	EF,VS,R
Nov 28 2010 12"	7mm TV	CF,CS,OVAL,MEXT,UB,NND,R=F	

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NGC 157 Nov 03 2004 8"	11mmT6	H3-2 MB,EL,NND,MSB,R=G	Galaxy SAB(rs)bc	PB,L,E,BET2CB*
NGC 163 Nov 28 2010 12"	7mm TV	H954-3 CF,CS,R,FNUC,R=F	Galaxy E0	VF,VS
NGC 165 Nov 28 2010 12"	7mm TV	H223-3 DIFF,CF,PS,R,NND,R=F	Galaxy SB(rs)bc	F,L,*INCENTRE,F OF 2
NGC 171 Dec 16 2009 12"	7.5mmW	H871-3 VF,PS,R,NND,R=F	Galaxy SB(r)ab	VF,PL,LE,2PB*SF
NGC 173 Nov 28 2010 12"	5.5mmN	H479-2 CF,PS,OVAL,UB,NND,R=F,PA=100	Galaxy SA(rs)c	VF,S,R,VGBM,*11SP1'
NGC 191 Nov 28 2010 12"	7mm TV	H872-3 CF,CS,R,UB,NND,R=F	Galaxy SAB(rs)c: pec	PB,PL,IE0,
NGC 192 Nov 28 2010 12"	7mm TV	H860-2 PF,PS,EON,FNUC,R=F,PA=175	Galaxy (R')SB(r)a:	F,PS,PME,BM
NGC 196 Nov 28 2010 12"	7mm TV	H873-3 CF,PS,OVAL,UB,NND,R=F	Galaxy SB0 pec:	F,PS,R,PSMBM
NGC 201 Nov 28 2010 12"	7mm TV	H452-2 CF,PS,OVAL,UB,NND,R=F,AV1	Galaxy SAB(r)c	VF,CL,E,VGLBM
NGC 210 Dec 16 2009 12"	7.5mmW	H244-3 PF,PS,OVAL,UB,NND,R=F	Galaxy SAB(s)b	B,PS,R,PSBM,R,*11P2'
NGC 216 Nov 28 2010 12"	7mm TV	H480-2 PF,CS,EON,UB,NND,R=F,PA=45	Galaxy S0^? sp	EF,VS,LE
NGC 217 Nov 10 2007 31"	17mmT4	H444-2 PB,PS,EON,FNUC,R=G	Galaxy S0/a: sp	F,S,LE90,GLBM
NGC 227 Nov 28 2010 12"	5.5mmN	H485-3 DIFF,VF,PS,OVAL,UB,NND,R=F,AV3	Galaxy S0- pec:	F,PL,LBM
NGC 244 Nov 28 2010 12"	7mm TV	H445-2 PF,CS,OVAL,FNUC,R=F,PA=45	Galaxy S0 pec?	VF,S,IR,R,*10S5'
NGC 245 Nov 28 2010 12"	7mm TV	H20-5 PF,PS,OVAL,FNUC,R=F,PA=125	Galaxy SA(rs)b pec?	F,PS,IF,ER
NGC 247 Nov 21 2006 8"	19mmW	F,L,EON,NND,R=F	Galaxy SAB(s)d	F,EL,VME172

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NGC 255		H472-2	Galaxy SAB(rs)bc	F,PS,R,GBM
Nov 28 2010 12"	7mm TV	PF,PS,R,FNUC,R=F		
NGC 259		H621-2	Galaxy Sbc: sp	F,S,E135,LBM
Nov 28 2010 12"	7mm TV	CF,CS,EON,UB,NND,R=F,AV1,PA=160		
NGC 268		H463-3	Galaxy SB(s)bc:	VF,PS,ILE,R
Nov 28 2010 12"	7mm TV	PF,CS,OVAL,UB,NND,R=F,PA=35		
NGC 270		H955-3	Galaxy S0+	PF,VS,IR,PGBM
Nov 28 2010 12"	7mm TV	PF,PS,OVAL,FNUC,R=F,PA=15		
NGC 271		H446-2	Galaxy (R')SB(rs)ab	PF,S,LE,PSBM,*8F5S
Nov 28 2010 12"	7mm TV	CF,CS,OVAL,UB,NND,R=F,AV1		
NGC 274		H429-3	Galaxy SAB(r)0- pec	PB,PS,SMBM,NP OF2
Nov 28 2010 12"	7mm TV	PF,PS,R,FNUC,R=F,PAIRED W/NGC-275		
NGC 275			Galaxy SB(rs)cd pec	VF,S,R,SF OF 2
Nov 28 2010 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-274		
NGC 337		H433-2	Galaxy SB(s)d	PF,L,E,GLBM,*10F21S
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
NGC 337A			Galaxy SAB(s)dm	
Nov 10 2007 31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F		
NGC 355			Galaxy SB0^ pec:	EF,VS
Nov 10 2007 31"	17mmT4	PF,PS,EON,NND,AV,R=F		
NGC 357		H434-2	Galaxy SB(r)0/a:	F,S,IR,SBM,*14NF20"
Nov 10 2007 31"	17mmT4	PB,PS,OVAL,BNUC,R=G		
NGC 428		H622-2	Galaxy SAB(s)m	F,L,R,BM,ER
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
NGC 584		H100-1	Galaxy E4	VB,PL,R,MBM,P OF 2
Nov 21 2006 8"	11mmT6	B,PS,OVAL,FNUC,R=G		
NGC 596		H4-2	Galaxy E+ pec:	PB,R,BM,R,*6F12'
Nov 21 2006 8"	11mmT6	F,PS,OVAL,FNUC,R=G		
NGC 600		H432-3	Galaxy (R')SB(rs)d	EEF
Nov 21 2006 8"	11mmT6	F,S,R,NND,R=F		
NGC 615		H282-2	Galaxy SA(rs)b	PB,PL,ILE,GBM,*8NP10
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,R=F		

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NGC 636 Nov 10 2007 31"	17mmT4	H283-2 PB,PS,OVAL,BNUC,R=G	Galaxy E3	PB,VS,R,MBM,R
NGC 720 Nov 21 2006 8"	11mmT6	H105-1 B,PS,OVAL,NND,R=F	Galaxy E5	CB,PL,LE,PSMBM
NGC 779 Nov 21 2006 8"	11mmT6	H101-1 F,L,EON,NND,R=F	Galaxy SAB(r)b	CB,L,ME162,MBM
NGC 908 Nov 21 2006 8"	11mmT6	H153-1 PF,L,OVAL,NND,R=F	Galaxy SA(s)c	CB,VL,E
NGC 936 Nov 21 2006 8"	11mmT6	H23-4 B,LOVAL,NND,R=F	Galaxy SB(rs)0+	VB,VL,R,MBMN,P OF 2
NGC 941 Nov 21 2006 8"	11mmT6	H261-3 VF,S,OVAL,NND,V,R=F	Galaxy SAB(rs)c	VF,CL,R,F OF 2
NGC 991 Dec 16 2009 12"	7.5mmW	H434-3 VF,PS,R,UB,NND,AV,R=F	Galaxy SAB(rs)c	VF,CL,IF,VLBM
NGC 997 Dec 12 2012 36"	17mmT4	H102-1 PF,PS,OVAL,MEXT,FNUC,HSB,R=G	Galaxy E	F,S
NGC 998 Dec 12 2012 36"	17mmT4	H102-1 PF,PS,OVAL,UB,NND,R=F	Galaxy S	VF
NGC 1022 Nov 21 2006 8"	11mmT6	H102-1 PF,L,OVAL,NND,R=F	Galaxy (R')SB(s)a	CB,PL,R,MBM,*11NF 2'
NGC 1032 Nov 13 2007 8"	11mmT6	H5-2 VF,VS,R,NND,AV,R=F	Galaxy S0/a sp	PB,S,VLE,BM,3*TRAP
NGC 1035 Nov 13 2007 8"	11mmT6	H284-2 VF,VS,OVAL,NND,AV,R=F	Galaxy SA(s)c?	PF,L,ME,R,*17ATT SF
NGC 1045 Nov 08 2010 12"	11mmT6	H488-2 CF,PS,EON,FNUC,R=F,PA=115	Galaxy SA0- pec?	F,S,R,BM
NGC 1052 Nov 21 2006 8"	11mmT6	H63-1 B,L,R,FNUC,R=G	Galaxy E4	B,PL,R,MBM*12
NGC 1055 Dec 16 2009 12" Nov 21 2006 8"	11mmT6 11mmT6	H1-1 PB,L,EON,UB,HSB,R=G PF,S,OVAL,NND,R=F	Galaxy SBb: sp	PF,CL,IE80,BM,*11N1'
NGC 1068	M77		Galaxy (R)SA(rs)b	VB,PL,IR,SBMRRN

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NGC 1068	M77	Galaxy (R)SA(rs)b	VB,PL,IR,SBMRRN
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Nov 13 2007 8"	11mmT6	PB,L,OVAL,BNUC,HISB,R=G	
Oct 29 2006 1.9"	12x50	PF,PS,OVA,NND,R=F	
Mar 19 2006 8"	19mmW	B,FL,OVAL,FNUC,MSB,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
NGC 1070	H273-2	Galaxy Sb	PF,S,IR,GBM
Nov 02 2005 31"	19mmW	PB,PL,OVAL,FNUC,MSB,R=G	
NGC 1073	H455-3	Galaxy SB(rs)c	VF,L,LBM,ER
Nov 13 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	
NGC 1087	H466-2	Galaxy SAB(rs)c	PB,CL,LE,MBM
Oct 31 2010 12"	5.5mmN	PF,PS,OVAL,UB,NND,R=F,PA=80	
NGC 1090	H465-2	Galaxy SB(rs)bc	VF,PL,IR,BM
Oct 31 2010 12"	5.5mmN	DIFF,PF,PS,EON,UB,NND,AV,R=F,PA=170	
NGC 7808		Galaxy (R')SA0^:	EF,VS,R,STELL N,*8SP
Nov 10 2012 18"	7mm TV	VF,VS,R,UB,NND,R=F	
PGC 971		Galaxy S0	
Dec 12 2012 36"	17mmT4	PF,VSW,OVAL,UB,NND,R=-F	
PGC 972		Galaxy	
Dec 12 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F	
PGC 2526		Galaxy SB(s)cd? sp	
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=90,STAR AT WEST TIP	
PGC 2800		Galaxy (R')SBb:	
Dec 12 2012 36"	17mmT4	VF,VS,EON,UB,NND,R=F,60 DEGREES FROM NORTH	
PGC 2805		Galaxy SBd pec sp	
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=75,STAR NW OF GX	
PGC 4063		Galaxy SB(s)d? sp	
Dec 12 2012 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=90	
PGC 6966		Galaxy SA(s)c? sp	
Dec 12 2012 36"	17mmT4	PF,PS,EON,FUC,R=G,PA=170.OFFSET BULGE TOWARDS NORTH	
PGC 7244		Galaxy Sbc: sp	
Dec 12 2012 36"	17mmT4	VG,VS,EON,NND,R=P,PA=140	

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

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

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

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ABELL 31			Planetary Neb 3a	
Mar 15 2005	8"	11mmT6	VF,PATCHY,LARGE,R=F	
NGC 2507			H554-2	Galaxy S0/a pec
Mar 17 2010	12"	11mmT6	VF,VS,OVAL,UB,NND,AV,R=F	PB,PL,IR,VGBM,ER,*S
NGC 2513			H512-3	Galaxy E
Mar 17 2010	12"	11mmT6	CF,CS,OVAL,UB,NND,R=F	F,S,R,PSMBM,R
NGC 2535				Galaxy SA(r)c pec
Mar 15 2005	8"	11mmT6	VF,MS,EON,OVAL,NND,AV,R=F	EF,VS,R
NGC 2545			H627-2	Galaxy (R)SB(r)ab
Mar 20 2007	8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	F,S,LE45,*8NP4'
NGC 2554			H303-2	Galaxy S0/a
Mar 17 2010	12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	F,S,R,MBM,R
NGC 2562			H607-3	Galaxy S0/a:
Mar 20 2007	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	VF,CS,R
NGC 2563			H634-2	Galaxy S0^:
Mar 15 2005	8"	11mmT6	VF,VS,EON,OVAL,NND,AV,R=F	CF,S,R,BM
NGC 2565				Galaxy (R')SBbc:
Mar 17 2010	12"	11mmT6	PF,CS,OVAL,NND,R=F	F,BIN
NGC 2577			H259-2	Galaxy S0-:
Mar 17 2010	12"	28mm	PF,CS,OVAL,UB,NND,R=F	F,S,IF,R
NGC 2592			H315-2	Galaxy E
Mar 17 2010	12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	PF,S,R,VSBM*
NGC 2595			H599-3	Galaxy SAB(rs)c
Apr 05 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	VF,PL,IF,R,D*SP2'
NGC 2599			H234-3	Galaxy SAa
Mar 17 2010	12"	11mmT6	PF,PS,OVAL,R,UB,NND,R=F	VF,S,STELLAR
NGC 2604			H292-3	Galaxy SB(rs)cd
Mar 17 2010	12"	11mmT6	DIFF,,VF,CS,OVAL,NND,R=F	VF,PL,R,LBM,R,D*NR
NGC 2608			H318-2	Galaxy SB(s)b:
Mar 20 2007	8"	11mmT6	PF,VS,OVAL,NND,AV,R=F	F,VLE,MBM,R
NGC 2619			H319-2	Galaxy Sbc
Mar 17 2010	12"	11mmT6	CF,PS,OVAL,UB,NND,R=F	F,PS,R,BM,R

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NGC 2632	M44	Open Cluster 6.0 II 3 m	PRAESEPE CANCRI
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007 1.9"	12x50	B,L,RICH CLUSTER,R=G	
Mar 19 2006 8"	25mmPL	PB,PL,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	
NGC 2648	H49-3	Galaxy Sa	F,S,VLE135,PSBM
Apr 05 2005 8"	11mmT6	VF,VS,EL,NND,AV,R=F	
NGC 2657		Galaxy SA(rs)d:	VF,VS,IR,F*ATT F
Mar 17 2010 12"	11mmT6	VF,VS,OVAL,UB,NND,AV,R=P	
NGC 2661	H50-3	Galaxy Scd:	EF,CL,R,LBM
Mar 17 2010 12"	11mmT6	VF,VS,R,NND,AV,R=P	
NGC 2672	H48-2	Galaxy E1-2	PB,PL,IR,MBM
Mar 20 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F	
Mar 15 2005 8"	11mmT6	MF,ML,OVAL,PATCH,NND,R=F	
NGC 2673		Galaxy E0 pec	VF,VS,CLOSE F2672
Mar 17 2010 12"	11mmT6	PF,PS,R,UB,NND,R=F	
NGC 2682	M67	Open Cluster 9.0 II 3 r	CL,VB,VL,ERI,LC,*10.
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 08 2007 1.9"	12x50	PB,PL,PATCHY,R=G	
Mar 19 2006 8"	25mmPL	B,L,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 16 2004 8"	25mmPL	1ST. QTR.	
NGC 2730		Galaxy SBdm:	VF,L,R
Mar 17 2010 12"	11mmT6	VF,CS,R,UB,NND,AV,R=F	
NGC 2738		Galaxy S?	PB,S,IF,D W/2737
Mar 17 2010 12"	11mmT6	VF,CS,OVAL,EXT,NND,AV,R=P	
NGC 2744	H60-3	Galaxy SB(s)ab: pec	VF,S,R,R,D* NR
Mar 17 2010 12"	11mmT6	VF,VS,R,NND,AV,R=F	
NGC 2749		Galaxy E3	PF,S,R,BMN=*15

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

Columba - The Dove

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

Coma Berenices - Berenice's Hair

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

Coma Berenices - Berenice's Hair

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

Coma Berenices - Berenice's Hair

NGC 4037		H77-3	Galaxy SB(rs)b:	EF,PL,R,R
Mar 08 2010 12"	11mmT6	VF,PS,OVAL,NND,R=F		
NGC 4064			Galaxy SB(s)a: pec	B,E,GBM
Mar 08 2010 12"	11mmT6	PF,CS,OVAL,MEXT,RNUC,R=F		
NGC 4104		H370-2	Galaxy S0	PB,PS,LE,BM
Mar 08 2010 12"	11mmT6	CF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 4136		H321-2	Galaxy SAB(r)c	F,VL,VGMBM
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=G		
Jun 09 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F		
NGC 4147		H19-1	Globular	GCL,VB,PL,R,GBM,RRR
Apr 20 2018 12"	11mmT6			
May 30 2016 12"	8mm Et	PF,PS,R=F. UNRESOLVED STARS		
Mar 29 2006 8"	11mmT6	F,S,R,NND,R=F CLASS IX		
Apr 13 2005 8"	7.5mmW	R,MSB,R=G		
NGC 4150		H73-1	Galaxy SA(r)0[^]?	B,S,R,PGMBM
Mar 29 2006 8"	11mmT6	B,L,R,FNUC,R=F		
NGC 4152		H83-2	Galaxy SAB(rs)c	PB,PL,R,PGMBM,R
Jun 09 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
NGC 4158		H405-2	Galaxy SA(r)b:	F,PS,LE,BM,PB*SF
Mar 08 2010 12"	11mmT6	CF,CS,R,UB,NND,R=F		
NGC 4162		H353-2	Galaxy (R)SA(rs)bc	B,L,IE,BM
Mar 08 2010 12"	11mmT6	CF,PS,OB,NND,R=F		
NGC 4169		H358-3	Galaxy S0	F,S,1ST OF 4
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 4173		H372-2	Non-Existent	
Mar 16 2012 18"	8.8 ES	PB,CS,EON,BNUC,R=G, A.L. FLAT GALLAXY		
NGC 4185		H373-2	Galaxy Sbc	CF,L,R,GBM
Apr 16 2009 16"	17mmT4	VF,PS,OVAL,NND,AV,R=F		
NGC 4189		H106-2	Galaxy SAB(rs)cd?	F,L,LE,VGLBM,R
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 4192	M98		Galaxy SAB(s)ab	B,VL,VME152,VSVMBM
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		

Coma Berenices - Berenice's Hair

NGC 4192	M98	Galaxy SAB(s)ab	B,VL,VME152,VSVMBM
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	VF,S,OVAL,NND,R=F	
Mar 26 2006 8"	19mmW	F,FL,OVAL,NND,UB,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4203		H175-1 Galaxy SAB0-:	VB,S,R,PSMBM
Apr 06 2010 12"	11mmT6	PB,PS, R,FNUC,R=G	
May 17 2005 31"	11mmT6	MB,ML,R,FNUC,MHS,R=G	
NGC 4212		H108-2 Galaxy SAc:	B,L,E107,G,SBM,R
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,LSB,R=F	
NGC 4222		H109-2 Galaxy Sd: sp	VF,PS,R
Mar 16 2012 18"	8.8 ES	PF,CS,EON,UB,NND,R=F, A.L. FLAT GALAXY	
NGC 4237		H11-2 Galaxy SAB(rs)bc	PB,PL,LE,VGBM,R
Apr 16 2009 16"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F	
NGC 4245		H74-1 Galaxy SB(r)0/a:	CB,PL,VLE,SMBM,R
May 17 2005 31"	11mmT6	MF,VS,R,NND,R=F	
NGC 4251		H89-1 Galaxy SB0? sp	VB,S,E,VSVMBMN,*F90S
May 17 2005 31"	11mmT6	MB,ML,EL,EON,FNUC,MSB,R=G	
NGC 4254	M99	Galaxy SA(s)c	B,L,R,GBM,R,3BRSPIRA
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	F,S,OVAL,NND,R=F	
Mar 26 2006 8"	19mmW	F,S,OVAL,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4262		H110-2 Galaxy SB(s)0-?	B,S,R,R
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4274		H75-1 Galaxy (R)SB(r)ab	VB,VL,E90,MBMN
May 17 2005 31"	11mmT6	PF,PS,OVAL,NND,R=F	
NGC 4278		H90-1 Galaxy E1-2	VB,PL,R,MBM,R,1STOF3
Apr 16 2009 16"	17mmT4	PB,PS,R,FNUC,HSB,R=G	
May 17 2005 31"	11mmT6	PB,PL,R,BNUC,R=G	
NGC 4293		H5-5 Galaxy (R)SB(s)0/a	F,VL,E,LBM,R

Coma Berenices - Berenice's Hair

NGC 4293		H5-5	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
Apr 26 2006 8"	11mmT6	PB,L,EON,UB,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 4298		H111-2	Galaxy SA(rs)c	F,L,E,VGBM,P OF 2
May 14 2017 12"	11mmT6	PF,PS,OVAL,UB,NND,R=G. PAIRED W/NGC4302		
Apr 16 2009 16"	17mmT4	PF,VS,OVAL,UB,NND,R=F		
NGC 4302		H112-2	Galaxy Sc	L,VME177,F OF 2
May 14 2017 12"	11mmT6	PF,PS,EON,UB,NND,R=F. PAIRED W/NGC4398		
Apr 16 2009 16"	17mmT4	PF,PS,EON,UB,NND,R=F		
NGC 4310		H378-2	Galaxy SB0	F,CL,LE,N OF 2
Apr 16 2009 16"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
NGC 4312		H628-2	Galaxy SA(rs)ab: sp	PB,CL,E,GBM
Apr 16 2009 16"	17mmT4	PB,PS,EON,FNUC,USB,R=G		
NGC 4314		H76-1	Galaxy SB(rs)a	CB,L,E150,SBM,*NP
May 17 2005 31"	11mmT6	PB,PS,OVAL,FNUC,MSB,R=G		
NGC 4321	M100		Galaxy SAB(s)bc	PF,VL,R,VG,PSBMRN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	F,S,OVAL,NND,R=F		
Mar 26 2006 8"	19mmW	F,L,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4336		H406-2	Galaxy SB0/a	VF,PL,IR,(BIN)
Apr 16 2009 16"	17mmT4	VF,PS,R,UB,NND,R=F		
NGC 4340		H85-2	Galaxy SB(r)0+	PB,S,R,PSBM
May 17 2005 31"	11mmT6	MB,PS,OVAL,NND,R=F		
NGC 4350		H86-2	Galaxy SA0 sp	CB,VS,ME,VSBM
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=P		
May 17 2005 31"	11mmT6	MB,PS,EL,OVAL,FNUC,MSB,R=G		
NGC 4359		H648-3	Galaxy SB(rs)c? sp	CF,PME90,VLBM
Apr 16 2009 16"	17mmT4	VF,VS,EL,OVAL,NND,AV,R=F		
NGC 4379		H87-2	Galaxy S0- pec:	PS,R,PSBMN
Apr 16 2009 16"	17mmT4	VF,VS,R,NND,AV,R=F		

Coma Berenices - Berenice's Hair

NGC 4382	M85	Galaxy SA(s)0+ pec	VB,PL,R,BM,*NP
Apr 20 2018 12"	11mmT6		
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007 1.9"	12x50	VF,PS,OVAL,NND,AV,R=F	
Mar 26 2006 8"	19mmW	B,L,OVAL,BNUC,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4394	H55-2	Galaxy (R)SB(r)b	PB,LE,BM
Apr 20 2018 12"	11mmT6		
Apr 26 2006 8"	11mmT6	PF,PS,R,NND,R=F	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4414	H77-1	Galaxy SA(rs)c?	VB,L,E,G,VSBM*
May 17 2005 31"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G	
NGC 4419	H113-2	Galaxy SB(s)a sp	B,PME135,SBM
May 17 2005 31"	11mmT6	MB,ML,EL,EON,FNUC,MSB,R=G	
NGC 4421	H89-2	Galaxy SB(s)0/a	PB,PL,PGBM,B*NP
May 17 2005 31"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
NGC 4448	H91-1	Galaxy SB(r)ab	B,L,E90,SBM
May 17 2005 31"	19mmW	VF,PS,EL,NND,R=G	
NGC 4450	H56-2	Galaxy SA(s)ab	B,L,R,GVMBM*,R,B*SP
May 17 2005 31"	11mmT6	MF,MS,OVAL,NND,R=F	
NGC 4459	H161-1	Galaxy SA(r)0+	PB,PL,IR,BM,R,*8SF2'
Apr 26 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 4473	H114-2	Galaxy E5	PB
May 14 2017 12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=G	
Apr 26 2006 8"	11mmT6	PB,CS,OVAL,FNUC,R=G	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 4474	H117-2	Galaxy S0 pec:	PF,R,R
Apr 26 2006 8"	11mmT6	VF,VS,OVAL,NND,R=F	
NGC 4477	H115-2	Galaxy SB(s)0:?	PB,CL
May 14 2017 12"	11mmT6	PF,PS,R,FNUC,R=G	
Apr 26 2006 8"	11mmT6	PB,CS,R,FNUC,R=G	

Coma Berenices - Berenice's Hair

NGC 4477		H115-2	Galaxy SB(s)0:?	PB,CL
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 4494		H83-1	Galaxy E1-2	VB,PL,R,VSMBMN
Apr 26 2006 8"	11mmT6	FB,FL,OVAL,FNUC,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - MEGASTAR CONTROL		
NGC 4501	M88		Galaxy SA(rs)b	B,VL,VME
Apr 14 2016 12"	8mm Ds	EYE CANDY		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	PF,S,OVAL,NND,R=F		
Mar 26 2006 8"	19mmW	B,L,OVAL,FNUC,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4548	M91	H120-2	Galaxy SB(rs)b	B,L,LE,LBM
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 06 2007 1.9"	12x50	VF,S,OVAL,NND,R=F		
Apr 26 2006 8"	11mmT6	B,L,EON,NND,R=F		
Mar 26 2006 8"	19mmW	B,L,EON,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4559		H92-1	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Apr 13 2005 8"	7.5mmW	MB,ML,EL,FNUC,R=G		
NGC 4565		H24-5	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
May 14 2010 31"	17mmT4	VB,VL,EON,BNUC,HSB,DARK DUST LANE BISECST. FILLS EYEPIECE,R=E!!		
May 18 2009 31"	31mmT5	PB,PL,EON,BNUC,HISB,R=E, NICE DUST LANE		
Mar 04 2006 31"	31mmT5	VB,VL,EON,BNUC,HISB,R=G		
Apr 13 2005 8"	7.5mmW	MB,ML,EL,EON,FNUC,R=G		
NGC 4571		H602-3	Galaxy SA(r)d	VF,L,E,VGBM,*9NF NR
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 4689		H128-2	Galaxy SA(rs)bc	PB,VL,E,VGLBM,R
May 04 2005 8"	11mmT6	MF,ML,R,NND,R=F		
NGC 4725		H611-3	Galaxy SAB(r)ab pec	VB,VL,E,VG,VSVMBMEBN
May 17 2005 31"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G		

Coma Berenices - Berenice's Hair

NGC 4816		H383-2	Galaxy S0-:	VF,PL
May 18 2009 31"	17mmT4	PB,PS,OVAL,BNUC,MHISB,R=G		
NGC 4824			Galaxy SA0	VF,VS
May 18 2009 31"	17mmT4	PF,CS,R,UB,NND,R=F		
NGC 4826	M64		Galaxy (R)SA(rs)ab	VB,VL,VME120,BMSBN
May 14 2017 12"	11mmT6	R=E		
Sep 19 2014 12"	17mmAT	PF,L,OVAL,FNUC,R=F, HOME - 8/14/14		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	B,PL,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	PB,PL,EL,OVAL,BNUC,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4874		H389-2	Galaxy E+0	F,4869\$72 P
Apr 18 2012 18"	8.8 ES	PF,PS,R,UB,NND,R=F		
NGC 4889		H391-2	Non-Existent	PB,PME,BM,*7N
Apr 18 2012 18"	8.8 ES	PF,PS,R,MEXT,UB,NND,R=F		
Apr 13 2005 8"	7.5mmW	VF,VS,NND,AV,R=F		
NGC 4931			Galaxy S0 sp	F,S
Apr 13 2005 8"	11mmT6	VB,ML,OVAL,FNUC,MSB,R=G		
NGC 5012		H85-1	Galaxy SAB(rs)c	PF,CL,E17,BIN,*9F
Apr 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 5024	M53		Globular	GCL,B,VC,IR,VVMBM,
May 30 2016 12"	8mm Et	FMSMR=G. RESOLVED OUTER STARS		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	PB,PL,R=G,COMPRESSED		
Mar 26 2006 8"	19mmW	PB,L,HSB,R=G, DENSE		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
NGC 5053		H7-6	Globular	CL,VF,PL,IR,VGBM,*15
May 30 2016 12"	8mm Et	VF,S,R=F		
Mar 10 2007 1.9"	12x50	PB,PL,R=G,COMPRESSED		
May 12 2005 31"	19mmW	FAINT,OVAL,R=F		

Coma Berenices - Berenice's Hair

NGC 5056		H306-3	Galaxy Scd:	CF,CS,R,SP OF 2
Apr 16 2009 16"	17mmT4	VF,PS,OVAL,UB,NND,AV,R=F		
PGC 44105			Galaxy	
May 18 2009 31"	17mmT4	PB,PS,OVAL,BNUC,MHISB,R=G		
PGC 44109			Galaxy C	
May 18 2009 31"	17mmT4	CF,CS,OVAL,NND,AV,R=F		
PGC 44137			Galaxy	
May 18 2009 31"	17mmT4	PF,PS,R,NND,R=F		
PGC 44159			Galaxy	
May 18 2009 31"	17mmT4	VF,VS,R,UB,NND,R=F		
PGC 44391			Galaxy SBb	
May 30 2014 18"	8mm Ds	PF,PS,EONL,UB,NND,R=F,PA=35		
PGC 45710			Galaxy S?	
May 12 2005 31"	19mmW	MB,MS,EL,EON,NND,R=F		

Corona Australis - The Southern Crown

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

Crater - The Cup

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

Corvus - The Crow

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

Corvus - The Crow

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

Cygnus - The Swan

CR 419			Open Cluster IV2p
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, SOME NEBULASITY	
CR 421			Open Cluster III1pn
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, FEWER STARS	
CR 428			Open Cluster IV1pn
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, FEWER STARS	
CR 470			Galaxy
Jun 20 2007 1.9"	12x50	F,S,R=F, HINT-NEBULOSITY, INV. W/IC 5146	
Jun 26 2004 8"	25mmPL	INVOLVED W/ IC 5146	
HENIZ 2-438			Planetary Neb 4
Aug 18 2010 12"	26mm	PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER	
IC 1301			Galaxy Scd:
Aug 13 2010 31"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
IC 1302			Galaxy SAB(s)c?
Aug 13 2010 31"	17mmT4	PF,CS,OVAL,MEXT,UB,NND,R=F	
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
IC 1303			Galaxy SAc:
Aug 13 2010 31"	17mmT4	PF,CS,OVAL,PEXT,UB,NND,R=F	
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
IC 1311			Open Cluster 17.0 I 1 r n
Aug 02 2005 8"	19mmW	NICE CLUSTER, NICER NEBULA	
IC 1318			Nebula E
Aug 18 2010 12"	26mm	F,PL,R=G,IRREGULAR SHAPE,LARGE,OIII FILTER	
IC 1369			Open Cluster 12.1 II 2 m
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
IC 1392			Galaxy S0-:
Jul 23 2006 8"	7.5mmW	VF,ES,OVAL,NND,AV,R=F	
IC 4867			Galaxy S0
Aug 13 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=F	
Jul 27 2009 16"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
IC 4996			Open Cluster 8.0 II 3 p n
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	APPROX 15 STARS

Cygnus - The Swan

IC 5067			Nebula EN	
Jul 24 2006	8"	25mmPL	PF,CL,R=F	
IC 5068			Nebula E	
Aug 18 2010	12"	26mm	PF,PL,R=P,ROUGHLY-RECTANGULAR SHAPE,DIM,OIII FILTER	
IC 5070			Non-Existent	
Jul 19 2017	12"	27m PN	F,PL,R=F.	
Jul 15 2015	12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jun 20 2007	1.9"	12x50	PF,VL,R=F, HINT OF NEBULOSITY	
Aug 02 2005	8"	19mmW	L,F,R=F	
IC 5076			Nebula E	
Nov 13 2007	8"	11mmT6	PF,PS,HINT OF NEBULOSITY,R=F	
IC 5117			Planetary Neb 2	
Jul 23 2006	8"	11mmT6	F,VS,R,AV,R=F	
IC 5146			Nebula E	
Jun 20 2007	1.9"	12x50	F,S,R=F, HINT OF NEBULOSITY	
Jun 26 2004	8"	7.5mmW	INVOLVED WITH CR 470	
NGC 6764			Galaxy SB(s)bc	PF,PL,ME,SEVVF*INV
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 6783			Galaxy C	EF,DIFFIC
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 6798			Galaxy S0	F,VS,R,*VNR
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 6801			Galaxy SAcd	EF,PS,R,F*S NR
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 6811			Open Cluster 11.0 III 1 r	CL,L,PRI,LC,ST11..14
Oct 30 2007	1.9"	12x50	F,PS,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
NGC 6819			Open Cluster 11.0 I 1 r	CL,VL,VRI,*11...15
Oct 08 2006	1.9"	12x50	N.S.R=F, TIGHTER GROUP	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
NGC 6824			H878-2 Galaxy SA(s)b:	PB,IF,BM
Nov 13 2007	8"	11mmT6	CF,CS,R,UB,NND,R=F	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 6826			H73-4 Planetary Neb 3a+2	PLN,B,PL,R,*11M

Cygnus - The Swan

NGC 6826		H73-4	Planetary Neb 3a+2	PLN,B,PL,R,*11M
Jul 19 2017 12"	11mmT6	F,PS,R=G.	SQM=20.01. 71 DEGREES OUT.	
Aug 13 2010 31"	17mmT4	B,S,R=F,	CENTRAL STAR OBSERVED AND NOTED	
Nov 13 2007 8"	11mmT6	PB,PS,R,R=G,	NO CENTRAL STAR	
Oct 13 2006 8"	19mmW	VF,PS,R=F		
Sep 04 2004 8"	11mmT6	FAINT		
NGC 6833			Planetary Neb 2	PLN,STELLAR
Aug 13 2010 31"	17mmT4	CF,VVS,R=F.	STELLAR IN APPEARANCE	
NGC 6834		H16-8	Open Cluster 11.0 II 2 m	CL,P,LC,*11...12
Jul 23 2006 8"	19mmW	PB,PS,R=F,	LOOSE GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD		
NGC 6846			Open Cluster 12.8 II 2	EF,VS,3*INV
Aug 13 2010 31"	17mmT4	F,CS,R=F		
Jul 27 2009 16"	11mmT6	PF,VS,R=F		
NGC 6857		H144-3	Nebula HII	F,AM MILKY WAY ST
Aug 02 2005 8"	19mmW	MB,VL,HISB,R=G		
NGC 6866		H59-7	Open Cluster 10.0 II 2 r	CL,L,VRI,CC
Jul 23 2006 8"	19mmW	PB,PS,R=F,	EXTENDED GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD		
NGC 6871			Open Cluster 6.8 II 2 p n	CL,ST L\$,D*INV
Oct 30 2007 1.9"	12x50	B,S,R=F		
Oct 13 2006 8"	19mmW	B,L,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
NGC 6874		H86-8	Non-Existent	CL,P,LC
Jul 27 2009 16"	11mmT6	PB,PS,,	LOOSE GROUP, R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
NGC 6881			Planetary Neb 2a+3	PLN,STELLAR
Aug 13 2010 31"	17mmT4	PF,VS,R=P.	STELLAR IN APPEARANCE - NO CENTRAL STAR!	
Jul 27 2009 16"	7.5mmW	VF,VS,R=F,	NO VISIBLE CENTRAL STAR	
NGC 6883			Open Cluster IV 2 m n	CL,PRI,**INV
Oct 30 2007 1.9"	12x50	PB,S,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
NGC 6884			Planetary Neb 2b	PLN,STELLAR
Jul 23 2006 8"	11mmT6	VF,VS,AV,R=F		
NGC 6888		H72-4	Nebula E	F,VL,VME,**ATT
Oct 12 2012 18"	17mmT4	FINE OBJECT IN JOHN'S 20" OBSESSION,	OIII FILTER	

Cygnus - The Swan

NGC 6888		H72-4	Nebula E	F,VL,VME,**ATT
Oct 12 2012	36"	17mmT4	FINE NEBULA IN CYGNUS, OUTSTANDING OBJECT, OIII FILTER	
Jul 24 2006	8"	25mmPL	PF,PL,PATCHEY,R=F	
NGC 6894		H13-4	Planetary Neb 4+2	RINGNEB,F,S,VVLE
Aug 13 2010	31"	17mmT4	F,PS,R=F. OVAL PATCH - NO CENTRAL STAR NOTED	
Jul 27 2009	16"	11mmT6	PF,PS,ROUND, NO VISIBLE CENTRAL STAR,R=F	
NGC 6910		H56-8	Open Cluster 9.6 I 3 m n	CL,PB,PS,P,PC,*20.12
Oct 08 2006	1.9"	12x50	PF,PS,R=F	
Jul 23 2006	8"	19mmW	CB,PS,R=F,BRIGHTER,TIGHTER	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
NGC 6913		M29	Open Cluster 9.0 II 3 m n	CL,P,LC,STL\$\$
Jul 19 2017	12"	17mmT4	VERY NICE. R=G	
Jul 01 2016	12"	35mm A	B,L,R=G	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006	1.9"	12x50	B,S,R=F	
Mar 27 2006	8"	19mmW	S,LOOSE,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6914			Nebula R	VF,VL,IR,DIF,2*ATT P
Jul 24 2006	8"	25mmPL	PF,PS,PATCHY,R=F	
NGC 6914A			Nebula R	
Aug 18 2010	12"	11mmT6	CF,PS,R=F,FAINT HINT OF NEBULOSITY, OIII FILTER, STARS 5+	
NGC 6914B			Nebula R	
Aug 18 2010	12"	11mmT6	CF,PS,R=P,FAINT HINT OF NEBULOSITY,OIII FILTER STARS 2	
NGC 6916			Galaxy SBbc	EEF,PS,F*NR P,VDIFFI
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 6960		H15-5	Nebula E	PB,CL,EIF,KAPPACYGIN
Jul 08 2018	12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017	12"	27m PN	F,L,R=E. LP2. NICE CONTRAST	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
Jul 25 2011	12"	32mmUV	B,VL,R=E!! LP-2 FILTER, EXTENDS N.E. TO S.W WITH N.E. LARGER	
Jun 20 2007	1.9"	12x50	PF,PL,R=F, HINT OF NEBULOSITY	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
NGC 6974			Nebula EN	NEB*,NEBY CE PF
Aug 07 2016	12"	27m PN	BRIGHT,LARGE,R=E. LP3.	

Cygnus - The Swan

NGC 6974		Nebula EN	NEB*,NEBY CE PF
Aug 18 2010 12"	11mmT6	CF,PS,R=P, LONG-NARROW, OIII FILTER	
NGC 6979		H206-2 Non-Existent	
Aug 07 2016 12"	27m PN	BRIGHT, LARGE, F=E. LP3. SQM-19.81, 62 DEGREES F.	
Jun 20 2007 1.9"	12x50	PF, PL, R=F, HINT OF NEBULOSITY	
NGC 6991		H76-8 Open Cluster 5.7 III 2 n	CL,L,P,VLC
Nov 13 2007 8"	11mmT6	PB, PL, R=G, STARS=30+, 3 ROWS?	
NGC 6992		H14-5 Nebula E	EF,EL,EE,EIF,BIFID
Jul 01 2016 12"	35mm A	GREAT, R=E!! LP2 FILTER	
Jul 25 2011 12"	32mmUV	B,L,R=E! LP-2 FILTER, WISPY FILEMENTS	
Jun 20 2007 1.9"	12x50	PF,L,R=F, HINT OF NEBULOSITY	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
NGC 6995		Non-Existent	F,EL,NEB\$ST INGROUPS
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017 12"	27m PN	F,L,R=E!! LP2 FILTER. SHOWPIECE OBJECT.	
Jun 20 2007 1.9"	12x50	PF, PL, R=F, HINT OF NEBULOSITY	
Aug 02 2005 8"	19mmW	VB, VL, PATCHY, R=G. NEAT	
NGC 6996		Open Cluster 11.0 III 2 m n	CL,P,LC
Aug 18 2010 12"	11mmT6	F,S,R=F, NICE GROUPING, STARS 20+	
NGC 6997		H58-8 Open Cluster III 2 m n	CL,P,LC,ST L
Nov 13 2007 8"	11mmT6	PF, PS, LOOSE GROUP, R=F	
Aug 23 2004 8"	11mmT6	DAMP - SEEING NOT TOO BAD.	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
NGC 7000		H37-5 Nebula E	F,EEL,DIF NEBULOSITY
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017 12"	35mm A	OUTSTANDING.	
Jul 01 2016 12"	35mm A	GREAT, R=E!! LP2 FILTER	
Aug 21 2015 12"	35mm A	LP2 FILTER	
Jul 15 2015 12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jul 25 2011 12"	32mmUV	B,VL,R=E!! LP-2 FILTER, OUTSTANDING	
Jun 20 2007 1.9"	12x50	F,EL,R=G, LITTLE BETTER	
Aug 02 2005 8"	19mmW	PRETTY LARGE, PRETTY BRIGHT, PRETTY NEAT	
NGC 7008		H192-1 Planetary Neb 3	CB,L,E45,R,**ATT
Aug 02 2005 8"	19mmW	FB, FL, R=G, BEHIND STAR	
NGC 7013		H203-2 Galaxy SA(r)0/a	PB,CS,R,PSBM,PB*NP
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 7024		H57-8 Non-Existent	CL,P,LC,ST10...

Cygnus - The Swan

NGC 7024		H57-8	Non-Existent	CL,P,LC,ST10...
Jul 27 2009	16"	11mmT6	PF,PS,R=F, SMALL GROUP	
NGC 7026			Planetary Neb 3a	PB,BIN,PLN
Jul 07 2018	12"	8mm Et	B,PS,R=G	
Aug 24 2005	8"	11mmT6	MF,MS,PATCHY,AV,R=F	
NGC 7027			Planetary Neb 3a	PLN,STELLAR=8.5M
Aug 24 2005	8"	7.5mmW	VB,VS,R,R=F	
NGC 7031		H74-8	Open Cluster 11.3 III 2 m	CL OF TRIP ST,LC
Jul 24 2006	8"	11mmT6	CF,CS,R=F	
NGC 7039			Open Cluster 11.3 IV 2 m	CL,VL,PRI,E,ST,10...
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
NGC 7044		H24-6	Open Cluster 15.0 I 1 r	CL,VF,PL,VRI,VC
Jul 23 2006	8"	19mmW	B,S,R=F	
NGC 7048			Planetary Neb 3b	PF,PL,DIF,IR,VLBM
Aug 24 2005	8"	7.5mmW	VF,ML,PATCHY,AV,R=F	
NGC 7062		H51-7	Open Cluster 10.1 II 2 m	CL,PS,PRI,PC,ST13...
Jul 23 2006	8"	19mmW	PB,PS,R=F	
NGC 7063			Open Cluster 8.9 III 1 p	CL,P,ST10...
Oct 08 2006	1.9"	12x50	F,S,R=F	
Jul 24 2006	8"	11mmT6	CF,S,R=F	
NGC 7067		H50-7	Open Cluster 11.2 II 1 p	CL,P,(NEB)
Jul 24 2006	8"	11mmT6	CF,VS,R=F	
NGC 7071			Non-Existent	CL,S,C,CE
Aug 24 2005	8"	11mmT6	R=P, DISAPPOINTING	
NGC 7082		H52-7	Open Cluster 9.9 IV 2 p	CL,L,CRI,LC,ST10..13
Nov 13 2007	8"	11mmT6	PF,PS,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
NGC 7086		H32-6	Open Cluster 10.2 II 2 m	CL,CL,VRI,PC,*11..16
Jul 23 2006	8"	19mmW	PB,PS,R=F	
NGC 7092		M39	Open Cluster 7.0 III 2 m	CL,VL,VP,VLC,*7...10
Jul 19 2017	12"	17mmT4	LARGER THAN M29	
Jul 01 2016	12"	35mm A	B,S,R=G	
Aug 21 2015	12"	17mmT4		
Mar 16 2012	18"	17mmAT	2012 M.M.	

Cygnus - The Swan

NGC 7092	M39	Open Cluster 7.0 III 2 m	CL,VL,VP,VLC,*7...10
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	B,S,R=F	
Mar 27 2006 8"	19mmW	S,LOOSE,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 7116		Galaxy S?	VF,PL,ME
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 7127		Open Cluster IV 1 p	CL,S,P,LC
Jul 23 2007 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
NGC 7128	H40-7	Open Cluster 11.5 I 3 m	CL,S,PRI,HASARUBY*9
Jul 23 2006 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
PGC 63211		Galaxy S	
Aug 13 2010 31"	17mmT4	CF,VS,R,UB,NND,R=F	
PGC 63311		Galaxy Sb	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NNS,R=F,AV1	
PGC 63440		Galaxy S0-:	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV1	
PGC 63529		Galaxy SAB(s)0-	
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
PGC 63552		Galaxy S?	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P	
PGC 63766		Galaxy SAB(s)bc	
Jul 25 2011 12"	7mm TV	VF,CS,OVAL,NND,R=P	
PGC 67049		Galaxy SAB0^	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=F	
Jul 19 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P	
PGC 67246		Galaxy SB?	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV4	
PK 64+5.1		Planetary Neb 4	
Aug 24 2005 8"	7.5mmW	VF,VS,R,AV,R=F	

Delphinus - The Dolphin

IC 1320			Galaxy SB(s)b?	
Sep 25 2006 31"	19mmW	PF,S,OVAL,NND,R=F		
IC 1359			Galaxy S?	
Sep 25 2006 31"	19mmW	FB,FS,EON,NND,R=G		
IC 5080			Galaxy	
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F		
MAC 2033+0659			Galaxy	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,R=F		
MAC 2033+0951			Galaxy	
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
MAC 2102+1913			Galaxy	
Sep 25 2006 31"	19mmW	PF,VS,OVAL,NND,AV,R=F		
MAC 2107+1802			Galaxy	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 6891			Planetary Neb 2a+2b	PLN,STELLAR=9.5M
Sep 25 2006 31"	19mmW	PB,L,R,R=G		
Aug 12 2005 8"	7.5mmW	MF,VS,OVAL,R=F		
NGC 6905		H16-4	Planetary Neb 3+3	PLN,B,PS,R,4S*NR
Jul 25 2017 12"	11mmT6	F,PS,R=G.. USED LP2		
Aug 13 2007 31"	31mmT5	PF,CS,R,R=G, CENTRAL STAR NOT VISIBLE		
Aug 09 2005 8"	11mmT6	MB,ML,PATCHY,MSB,R=G		
NGC 6917			Galaxy S	VF,S,ATT TO A S*
Sep 25 2006 31"	19mmW	F,L,OVAL,ND,R=F		
NGC 6927			Galaxy S0: sp	EF,LE
Aug 31 2008 31"	17mmT4	VF,VS,OVAL,NND,R=F		
Sep 25 2006 31"	19mmW	PF,S,OVAL,NND,R=F		
NGC 6927A			Galaxy E6:	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P		
Sep 25 2006 31"	19mmW	VF,S,OVAL,NND,AV,R=F		
NGC 6928			Galaxy SB(s)ab	PB,PL,ME
Aug 31 2008 31"	17mmT4	PF,PS,EON,FNUC,MSB,R=F		
Sep 25 2006 31"	19mmW	PB,PL,EON,FNUC,HISB,R=G		
NGC 6930			Galaxy SB(s)ab? sp	F,ME
Aug 31 2008 31"	17mmT4	DIFF,PF,PS,OVAL,NND,R=F		

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NGC 6930			Galaxy SB(s)ab? sp	F,ME
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 6934		H103-1	Globular	GCL,B,L,R,RRR,*16...
Oct 25 2009 12"	11mmT6	PB,PS,R=G. RESOLVE OUTER STARTS ONLY		
Aug 31 2008 31"	17mmT4	PB,PS,R=G		
Oct 08 2006 1.9"	12x50	F,S,R=F, SMALL SMUDGE.		
Aug 20 2006 1.9"	12x50	B,L,R=G		
Jul 23 2006 8"	7.5mmW	PB,CS,R,R=G		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
NGC 6944			Galaxy S0-	PF,S,R
Sep 25 2006 31"	19mmW	PB,,L,OVAL,NND,R=F		
NGC 6944A			Galaxy SB(rs)d pec:	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
NGC 6950		H23-8	Open Cluster cluster?	CL,P,VLC
Aug 18 2010 12"	11mmT6	PF,PS,R=F,LOOSE,STARS 30+		
NGC 6954			Galaxy SA0+?	F,S,VLE
Sep 25 2006 31"	19mmW	FB,FL,OVAL,ND,R=G		
NGC 6955			Galaxy SAB(r)bc	EF,PL,R
Sep 25 2006 31"	19mmW	PF,L,R,NND,AV,R=F		
NGC 6956		H219-3	Galaxy SBb	VF,S,STELL,**ATT
Sep 25 2006 31"	19mmW	PB,L,OVAL,NND,R=G		
NGC 6957			Galaxy Scd?	VF,S,R
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F		
NGC 6969			Galaxy Sa	F,PL,E
Sep 25 2006 31"	19mmW	PB,L,EON,NND,R=G		
NGC 6971			Galaxy Sb	VF,S,R
Sep 25 2006 31"	19mmW	F,L,EL,OVAL,NND,R=F		
NGC 6972			Galaxy S0/a	F,S,R
Sep 25 2006 31"	19mmW	B,L,EL,OVAL,FNUC,R=G		
NGC 6988			Galaxy	EF,PL,R
Sep 25 2006 31"	19mmW	PF,PS,R,NND,R=F		
NGC 7003			Galaxy Sbc	VF,VS,LE,*15CLOSE F
Sep 25 2006 31"	19mmW	F,L,OVAL,PATCHY,NND,R=F		

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NGC 7006		H52-1	Globular	B,PL,R,GBM
Oct 21 2006 31"	20mmUV	FB,L,STELLAR, RESOLVE OUTERMOST STARS.		
Jul 23 2006 8"	7.5mmW	VF,CS,R,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
NGC 7025			Galaxy Sa	VF,VS,R,STELL
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Sep 25 2006 31"	19mmW	PB,L,OVAL,FNUC,PHISB,R=G		
PGC 64976			Galaxy	
Aug 31 2008 31"	17mmT4	EF,ES,R,NND,AV,R=P		
PGC 64995			Galaxy E	
Aug 31 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F		
PGC 64999			Galaxy Sc	
Aug 31 2008 31"	17mmT4	VF,VS,EON,NND,AV,R=F		
PGC 65060			Galaxy Sb	
Aug 31 2008 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F		
PGC 65099			Galaxy S0	
Aug 31 2008 31"	17mmT4	CF,S,OVAL,NND,R=F		
PGC 65138			Galaxy E	
Aug 31 2008 31"	17mmT4	PF,VS,OVAL,UB,NND,R=F		
PGC 65281			Galaxy S?	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
PGC 65293			Galaxy SB(r)a	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,AV,R=F		
PGC 65482			Galaxy	
Sep 25 2006 31"	19mmW	PF,S,R,NND,R=F		
PGC 65971			Galaxy	
Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,R=F		
PGC 66125			Galaxy S R	
Sep 25 2006 31"	19mmW	VF,PS,R,NND,AV,R=F		
PGC 66139			Galaxy	
Sep 25 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
PGC 66170			Galaxy E	
Sep 25 2006 31"	19mmW	PB,FL,R,FNUC,R=G		

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PGC 66176

Sep 25 2006 31" 19mmW PB,FL,EL,OVAL,FNUC,MHISB,R=G

Galaxy S?

PGC 66178

Sep 25 2006 31" 19mmW VF,S,EON,NND,AV,R=F

Galaxy Scd:

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IC 836			Galaxy S	
Feb 23 2006 31"	17mmT4	PB,PL,EON,FNUC,HISB,R=G		
IC 1231			Galaxy Scd:	
Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F,PA=10		
IC 4763			Galaxy S?	
Sep 05 2010 12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=165		
MAC 1236+7415			Galaxy	
Feb 23 2006 31"	17mmT4	VF,VS,R,NND,AV,R=F		
MAC 1237+7417			Galaxy	
Feb 23 2006 31"	17mmT4	VF,FS,R,NND,R=F		
NGC 2908		H977-3	Galaxy S	EF,VS
May 23 2012 18"	8.8 ES	CF,CS,R,UB,NND,AV1,R=F		
NGC 2938		H963-3	Galaxy SB(rs)cd	EF,S,IF,D*F3'
May 23 2012 18"	8.8 ES	VF,CS,OVAL,MEXT,UB,NNE,AV2,R=F		
NGC 2957A			Galaxy E1:	EF,*13NR
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,PEXT,NND,R=P		
NGC 2957B			Galaxy E	
Jul 13 2013 18"	7mm TV	VF,VS,OVAL,PEXT,NND,R=P		
NGC 2963		H315-3	Galaxy SBab	VF,VS,R,BM
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
NGC 2977		H282-1	Galaxy Sb:	CB,PL,IF,
Jul 08 2018 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Aug 31 2010 12"	7mm TV	VF,VS,OVAL,MEXT,PATCH,NND,R=F. PA=110		
NGC 3057		H978-3	Galaxy SB(s)dm	EF,PL,VLBM,2S* S
Jul 08 2018 12"	8mm Et	VF,PS,OVAL,UB,NND,R=F		
Sep 09 2010 12"	5.5mmN	VF,CS,OVAL,R,NND,AV,R=P		
NGC 3061		H903-2	Galaxy (R')SB(rs)c	VF,PL,RESOLVABLE
Jul 08 2018 12"	8mm Et	VF,PS,OVAL,UB,NND,AV,R=F		
Sep 09 2010 12"	5.5mmN	VF,CS,R,NND,AV,R=F		
NGC 3144			Non-Existent	VF,S,R,*13ATT F
Jul 13 2013 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 3147		H79-1	Galaxy SA(rs)bc	VB,L,R,VGVSVMBM
Jul 25 2017 12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F		

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NGC 3147		H79-1	Galaxy SA(rs)bc	VB,L,R,VGVSVMBM
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		
NGC 3183		H283-1	Non-Existent	F,PL,E,LBM
Aug 06 2010 12"	7mm TV	CF,CS,OVAL,UB,NND,AV,R=F		
NGC 3194		H965-3	Galaxy S?	VF,VS
Aug 31 2010 12"	7mm TV	CF,VS,OVAL,MEXT,UB,NND,AV,R=P. PA=170		
NGC 3197		H966-3	Galaxy Sbc	VF,VS
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 3212		H980-3	Galaxy SB?	VF,S,2ND OF 3
Jul 13 2013 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F,PAIRED W/NGC-3215		
NGC 3215		H981-3	Galaxy S?	VF,S,3RD OF 3
Jul 13 2013 18"	7mm TV	VF,PS,PEXT,UB,NND,R=F,PAIRED W/NGC-3212		
NGC 3218		H283-1	Galaxy SB(s)bc:	CB,CL,ER,
Aug 25 2011 12"	5mm TV	F,VS,OVAL,MEXT,UB,NND,AV1,R=P		
NGC 3252		H316-3	Galaxy SBd? sp	EF,PS,ME,R
Jul 13 2013 18"	7mm TV	PF,PS,EON,UB,NND,R=F,PA=35		
NGC 3329		H284-1	Non-Existent	PB,S,LE,PSMBM
Aug 29 2010 12"	7mm TV	CF,CS,OVAL,MEXGT,UB,NND,R=F. PA=100.		
Aug 18 2010 12"	7mm TV	CF,CS,OVAL,MEXT,UB,NND,A=F. PA=100, 2 STARS NEAR W.N.W.		
Aug 06 2010 12"	7mm TV	VF,VS,OVAL,NND,AV,R=F		
NGC 3343		H317-3	Galaxy E	PF,S,R,GBM
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 3397		H284-1	Galaxy (R)SA(r)b:	CB,VS,IF
Aug 25 2011 12"	5mm TV	F,VS,OVAL,PEXT,UB,FNUC,R=F		
NGC 3403		H335-2	Galaxy SAbc:	PF,L,IE,VGBM
Feb 23 2006 31"	17mmT4	MB,FS,OVAL,NND,LSB.R=F		
NGC 3465		H967-3	Non-Existent	EF,PL,R,VGLBM,**NF
Jul 13 2013 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
Feb 23 2006 31"	17mmT4	MF,FS,R,FNUC,MSB,R=F		
NGC 3523		H904-2	Galaxy Sbc	F,PL,LBM,
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		

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NGC 3562		H337-2	Galaxy E	PF,PS,LE,GBM,*70"NP
Aug 31 2010 12"	7mm TV	CF,PS,OVAL,PATCH,NND,AV,R=F. PA=135		
NGC 3682		H262-1	Galaxy SA(s)0/a:?	CB,S,IR,SPMBMN
Aug 31 2010 12"	7mm TV	PF,CS,OVAL,MEXT,UB,NND,R=F. PA=75		
NGC 3735		H287-1	Galaxy SAc: sp	PB,L,ME130,MBM
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		
NGC 3736			Galaxy Sb	VF,VS,R
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,NND,AV,R=F		
NGC 3752		H905-2	Galaxy Sab	PB,PL
Jul 13 2013 18"	7mm TV	PF,PS,OVAL,MEXT,NND,R=F		
NGC 3879		H881-2	Galaxy Sdm:	F,PL,ME105
Feb 23 2006 31"	17mmT4	FB,FL,EON,FNUC,MSB,R=G		
NGC 3890		H940-3	Galaxy S?	VF,S,R,BM
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		
NGC 3961		H905-3	Galaxy (R)SB(r)a:	EF,VS
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		
NGC 4034		H903-3	Galaxy Scd:	EF,S,IF,GVLBM
Jul 13 2013 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 4108			Galaxy (R')SAc:	B,S,R,GBM
Aug 31 2010 12"	7mm TV	VF,CS,OVAL,NND,AV,R=F. PA=90??		
NGC 4120		H904-3	Galaxy SA(rs)cd:	EF,VS,E
Jul 13 2013 18"	7mm TV	VF,PS,EON,UB,NND,R=F		
NGC 4125			Galaxy E6 pec	PB,PL,CE,MBM
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		
NGC 4128		H263-1	Galaxy SA0: sp	CB,LE,BM
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		
NGC 4133		H278-1	Galaxy SABb:	PB,CL,R,GMBM
Aug 31 2010 12"	7mm TV	CF,PS,OVAL,EXT,UB,NND,R=F. PA=70		

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NGC 4133 Aug 12 2010 12"	7mm TV	H278-1 VF,VS,OVAL,MEXT,NND,AV,R=P	Galaxy SABb:	PB,CL,R,GMBM
NGC 4159 Apr 17 2015 18"	8mm Ds	H941-3 VF,PS,OVAL,UB,NND,R=F	Galaxy S?	EF,PS,R,TRI2*
NGC 4205 Aug 15 2015 12"	8mm Ds	H850-3 PF,PS,OVAL,UB,NND,R=F	Galaxy S?	PB,PS,R,*12F,LN
NGC 4210 Aug 31 2010 12"	7mm TV	H850-3 VF,PS,R,NND,R=F	Galaxy SB(r)b	PF,PS,R,VGBM
NGC 4221 Aug 31 2010 12"	7mm TV	H850-3 PF,PS,OVAL,EXT,FNUC,R=F	Galaxy (R)SB(r)0+	PB,S,R,PSBM
NGC 4236 Sep 01 2005 8"	7.5mmW	H51-5 MF,ML,NND,LSB,R=F	Galaxy SB(s)dm	VF,EL,ME160,VGBM
NGC 4250 Aug 12 2010 12" Aug 06 2010 12"	7mm TV 7mm TV	H264-1 CF,PS,OVAL,UB,NND,R=F PF,CS,OVAL,UB,NND,R=F	Galaxy SAB(r)0+	PB,S,R,PGBM
NGC 4256 Aug 31 2010 12" Jul 16 2009 16"	7mm TV 11mmT6	H846-2 PF,PS,EON,FNUC,MSB,R=F. PA=170 PS,EON,NND,R=F	Galaxy SA(s)b: sp	PB,L,CE38,BMBN
NGC 4291 Apr 17 2015 18" Jul 14 2010 12"	8mm Ds 7.5mmW	H275-1 F,S,ROUND,UB,NND,R=F PF,CS,OVAL,FNUC,MSB,R=F	Galaxy E	PB,VS,R,LBM,3*F
NGC 4319 Jul 14 2010 12"	7.5mmW	H276-1 CF,PS,R,UB,LSB,R=F	Galaxy SB(r)ab	PB,PS,VLE,SBM
NGC 4332 Jul 14 2010 12"	7.5mmW	H847-2 CF,PS,OVAL,UB,NND,R=F	Galaxy SB(s)a	PF,S,VLE,VGBM
NGC 4386 Jul 14 2010 12"	7.5mmW	H277-1 PF,CS,OVAL,MEXT,FNUC,R=F	Galaxy SAB0^:	PB,CL,LE,PSMBM
NGC 4391 Jul 14 2010 12"	7.5mmW	H852-3 CF,VS,R,UB,NND,R=F	Galaxy SA0-:	CF,S,R,SBM,***SP
NGC 4441 Jul 14 2010 12"	7.5mmW	H848-2 VF,PS,R,NND,AV,R=P	Galaxy SAB0+ pec	PB,S,IR,BM
NGC 4512 Jul 14 2010 12"	7.5mmW	H852-3 VF,CS,OVAL,UB,NND,AV,R=P	Galaxy SB(s)dm	PB,S,R,PSBM

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NGC 4521		H849-2	Galaxy S0/a	PB,S,PME,PGBM,*P12S
Aug 31 2010 12"	7mm TV	CF,PS,EON,UB,NND,R=G.	PA=195	
NGC 4545		H850-2	Galaxy SB(s)cd:	F,L,IR,VGBM,S*NF
Feb 23 2006 31"	17mmT4	PB,PL,OVAL,FNUC,PHISB,R=G		
NGC 4572		H939-3	Galaxy S	EF,S
Feb 23 2006 31"	17mmT4	PF,FL,EON,NND,R=F		
NGC 4589		H273-1	Galaxy E2	CB,L,LE,PGMBM
Feb 23 2006 31"	17mmT4	VB,FL,OVAL,BNUC,HISB,R=G		
NGC 4648		H274-1	Galaxy E3	PB,CS,R,GBM,**P
Feb 23 2006 31"	17mmT4	VB,FL,OVAL,BNUC,HISB,R=G		
NGC 4693		H906-3	Galaxy Sd	VF,PLE
Feb 23 2006 31"	17mmT4	MB,ML,EON,UB,NND,R=G		
NGC 4749		H907-3	Galaxy Sb? sp	VF,CL,E135
Feb 23 2006 31"	17mmT4	MB,ML,EON,UB,NND,R=G		
NGC 4750		H78-4	Galaxy (R)SA(rs)ab	PB,L,R,VG,VSBM
Feb 23 2006 31"	17mmT4	VB,VL,R,BNUC,HISB,R=G		
NGC 4857		H908-3	Galaxy SABb	EF,VS,IR,VLBM
Feb 23 2006 31"	17mmT4	PB,FL,OVAL,FNUC,MSB,R=G		
NGC 5667		H807-2	Galaxy Scd: pec	PB,PS,E0
Aug 15 2015 12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
NGC 5678		H237-1	Galaxy SAB(rs)b	B,L,LE0,VGMBM
Aug 06 2010 12"	7mm TV	PF,PS,OVAL,UB,MSB,R=F		
NGC 5777		H806-3	Galaxy Sb	VF,VS,LE
May 23 2012 18"	11mmT6	PF,PS,EON,UB,NND,R=F, PA=100		
NGC 5866	M102	H215-1	Galaxy SA0+ sp	VB,CL,PME146,GBM
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		
NGC 5879		H757-2	Galaxy SA(rs)bc:?	CB,S,E,MBMRN,R
Aug 12 2010 12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F		
Aug 06 2010 12"	7mm TV	PF,PS,OVAL,VEXT,FNUC,R=G		

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NGC 5894 Aug 06 2010 12"	7mm TV	H763-2 VF,FS,PEXT,UB,NND,AV,R=F	Galaxy SBdm?	PF,PS,E0
NGC 5905 Aug 06 2010 12"	7mm TV	H758-2 DIFF,PF,PS,R,UB,NND,R=F	Galaxy SB(r)b	PF,PS,IR
NGC 5907 Jun 07 2010 12" Jul 23 2006 8"	7.5mmW 11mmT6	H759-2 PF,PL,EON,FNUC,FAINT BULGE,R=G PF,PS,EON,VFNUC,R=F	Galaxy SA(s)c: sp	CB,VL,VME155,VGPSBMN
NGC 5908 Aug 06 2010 12"	7mm TV	H760-2 PF,PS,OVAL,MEXT,UB,NND,R=F	Galaxy SA(s)b: sp	PF,PS,R
NGC 5949 Aug 06 2010 12"	7mm TV	H906-2 PF,CS,OVAL,UB,NND,R=F	Galaxy SA(r)bc?	F,S,LE45,VGLBM
NGC 5963 Aug 06 2010 12"	7mm TV	H761-2 PF,CS,OVAL,MEXT,UB,NND,R=F	Galaxy S pec	PF,PS,IF
NGC 5965 Aug 06 2010 12"	7mm TV	H762-2 CF,CS,EON,UB,NND,R=F	Galaxy Sb	CF,CL,LE
NGC 5981 Aug 15 2015 12"	8mm Ds	H762-2 VF,VS,EON,UB,NND,AV1,R=P	Galaxy Sc? sp	F,ME
NGC 5982 Aug 15 2015 12" Apr 13 2005 8"	8mm Ds 11mmT6	H764-2 F,PS,OVAL,FNUC,R-F VF,VS,OVAL,NND,R=F	Galaxy E3	CB,S,R,PSBM,R
NGC 5985 Aug 15 2015 12" Sep 07 2005 8" Apr 13 2005 8"	8mm Ds 11mmT6 11mmT6	H766-2 DIFF,PF,S,OVAL,UB,NND,R=F MB,ML,EL,OVAL,FNUC,MSB,R=G MB,ML,EL,OVAL,FNUC,R=G	Galaxy SAB(r)b	PB,CL,IE,R
NGC 5987 Aug 06 2010 12"	7mm TV	H765-2 PF,PS,OVAL,PEXT,FNUC,MSB,R=G	Galaxy Sb	PF,CS
NGC 5989 Aug 15 2015 12"	8mm Ds	H738-3 VF,PS,OVAL,UB,NND,R=F	Galaxy Scd?	VF,VS
NGC 6015 Sep 07 2005 8"	11mmT6	H739-3 VF,VS,EL,OVAL,NND,R=F	Galaxy SA(s)cd	VF,PL,R,VGBM
NGC 6090 Aug 15 2015 12"	8mm Ds	H739-3 PF,PS,OVAL,MEXT,UB,NND,R=F	Galaxy S0?	VF,S,R
NGC 6127			Non-Existent	PF,VS,R

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NGC 6127			Non-Existent	PF,VS,R
Sep 05 2010 12"	7mm TV	PF,PS,R,FNUC,R=G		
NGC 6140		H740-3	Galaxy SB(s)cd pec	CF,PL,IR
Sep 07 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 6189			Galaxy Scd:	VF,PS,LE
Sep 05 2010 12"	7mm TV	VF,CS,OVAL,UB,NND,AV,R=F,PA=65		
NGC 6190			Galaxy Scd:	VF,PS,R,F*NR
Sep 05 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F		
NGC 6211			Galaxy SB(r)0^ pec:	VF,PS,R,SP OF 2
Sep 05 2010 12"	7mm TV	PF,PS,OVAL,FNUCC,R=F,PA=95		
NGC 6223			Galaxy Pec	F,S,R,MBM
Sep 05 2010 12"	7mm TV	PF,PS,OVAL,FNUC,R=F,PA=140		
NGC 6226			Galaxy Pec	F,S,TRIW/2*12\$14
Sep 05 2010 12"	5.5mmN	CF,VS,OVAL,UB,NND,R=F,PA=90		
NGC 6232			Galaxy (R')SB(s)a	PF,PL,LE
Sep 05 2010 12"	7mm TV	CF,PS,R,UB,NND,R=F		
NGC 6236			Galaxy SAB(s)cd	F,PL
Sep 05 2010 12"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F,PA=45		
NGC 6247			Galaxy Pec	F,PS,IF
Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 6306			Galaxy SB(s)ab pec:	VF,VS,LE
Sep 05 2010 12"	5.5mmN	VF,VS,OVAL,UB,NND,AV,R=F,PA=10 PAIRED WITH NGC 6307		
NGC 6307			Galaxy (R')SB(s)0/a p	VF,VS,LE,*13NR N
Sep 05 2010 12"	5.5mmN	CF,CS,OVAL,MEXT,FNUC,R=F,PA=10 PAIRED WITH NGC 6306		
NGC 6310			Galaxy Sb: sp	F,PL,LE
Sep 05 2010 12"	5.5mmN	CF,CS,EON,UB,NND,R=F,PA=110		
NGC 6338		H812-2	Galaxy S0	F,S,R,VGLBM
Apr 29 2011 12"	5mm TV	VF,CS,OVAL,UB,NND,R=F		
NGC 6340		H767-2	Galaxy SA(s)0/a	CF,PL,R,VGMBM
Sep 07 2005 8"	11mmT6	MB,ML,R,FNUC,MSB,R=G		
NGC 6359			Galaxy SA0-:	PB,S,R,BMN=*12
Sep 05 2010 12"	5.5mmN	PF,CS,OVAL,FNUC,R=F,PA=5		

Draco - The Dragon

NGC 6359		Galaxy SA0-:	PB,S,R,BMN=*12
Aug 12 2010 12"	7mm TV	PF,PS,R,NND,R=F	
NGC 6361		Galaxy SAb: sp	VF,PS,ME,NEAR BET 2*
Sep 05 2010 12"	5.5mmN	CF,CS,EON,UB,NND,R=F,PA=95	
NGC 6370		Galaxy E	VF,VS,R,B*NR N
Apr 29 2011 12"	5mm TV	CF,CS,R,UB,NND,R=F,STAR TO S.W.	
NGC 6381		Galaxy SA(s)c?	VF,PL,E
Sep 05 2010 12"	5.5mmN	VF,CS,OVAL,UB,NND,AV,R=P,PA=90	
NGC 6395		Galaxy Scd:	VF,PL,LE,D*N
Sep 05 2010 12"	5.5mmN	VF,CS,EON,UB,NND,AV,R=F,PA=75	
NGC 6411		Galaxy E	VS,GBM
Sep 05 2010 12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,NSB,R=G,PA=105	
NGC 6412		H41-6 Galaxy SA(s)c	GCL,CL,R,VGBM,RR
Sep 05 2010 12"	5.5mmN	DIFF,PF,PS,OVAL,NND,R=F,PA=170	
NGC 6434		H741-3 Galaxy SBbc:	VF,VS,R,STELLAR,*8S
Sep 05 2010 12"	5.5mmN	PF,CS,OVAL,PEXT,NND,R=F,PA=160	
NGC 6503		Galaxy SA(s)cd	PF,L,ME,*9F4'
Oct 21 2012 8"	5mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6508		Galaxy E:	VF,S,3ST NR
Sep 05 2010 12"	5.5mmN	CF,PS,R,UB,NND,R=F	
NGC 6521		Galaxy E	F,PL,3RD OF 3
Apr 29 2011 12"	5mm TV	CF,CS,R,UB,NND,R=F	
NGC 6543		H37-4 Planetary Neb 3a+2	PLN,VB,PS,SBMVSN
Oct 21 2012 8"	5mm TV	B,PS,OVAL IN SHAPE,R=F	
Sep 05 2010 12"	5.5mmN	PB,PS,R=G, NO CENTRAL STAR NOTED. OIII NOT MUCH HELP - NO ADDITIONAL STRUCTURE	
Jul 09 2005 8"	11mmT6	VB,VS,OVAL,R=G	
Apr 13 2005 8"	11mmT6	VB,VS,R,R=G	
NGC 6621		Galaxy Sb: pec	PF,PS,R,LBM,S OF 2
Aug 24 2012 18"	7mm TV	VF,VS,EON,UB,NND,AV1,R=F	
NGC 6643		Galaxy SA(rs)c	PB,PL,E50,2ST P
Sep 07 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	

Draco - The Dragon

NGC 6651		Galaxy SA(r)c	EEF,PS,LE,VDIFFIC
Apr 29 2011	12"	5mm TV VF,CS,OVAL,UB,NND,R=F	
NGC 6654		Galaxy (R')SB(s)0/a	*12,13INPB,PL NEBY
Jul 27 2009	16"	11mmT6 PF,PS,EL,OVAL,NND,R=F	
NGC 6667		Galaxy SABab? pec	VF,PL,LE,VF D* NR
Jul 27 2009	16"	11mmT6 CF,PS,EON,NND,AV,R=F	
NGC 6677		Galaxy Compact	VF,VS,BET*VNR\$VF D*
Sep 05 2010	12"	5.5mmN PF,CS,R,UB,NNE,R=F	
NGC 6690		Non-Existent	
Jul 27 2009	16"	11mmT6 PF,PS,EON,UB,NND,R=F	
NGC 6691		Galaxy SB(rs)bc	VF,PL,R,PB*S NR
Apr 29 2011	12"	5mm TV CF,VS,R,UB,NND,R=F	
NGC 6701		Galaxy (R')SB(s)a	PB,PS,ME,F*CLOSE F
Sep 05 2010	12"	5.5mmN PF,PS,OVAL,MEXT,FNUC,MSB,R=G,PA=30	
NGC 6742		H742-3 Planetary Neb 2c	VF,STELLAR
Sep 05 2010	12"	5.5mmN CF,CS,R=F. NO CENTRAL STAR NOTED. OIII ADDS NOTHING.	
NGC 6750		Galaxy Sc	VF,VS,R
Sep 05 2010	12"	5.5mmN CF,PS,OVAL,MET,UB,NND,R=F,PA=35	
NGC 6757		Galaxy SB(r)0/a	PF,ME,3F*INV
Sep 05 2010	12"	5.5mmN DIFF,CF,PS,OVAL,UB,NND,R=F,PA=105	
NGC 6786		Galaxy SB?	EEF,S,R,2ST NF
Sep 05 2010	12"	5.5mmN CF,PS,OVAL,UB,NND,R=F,PA=85	
NGC 6789		Galaxy Im	EEF,PL,R,VDIFFIC
Sep 05 2010	12"	5.5mmN VF,PS,OVAL,UB,NND,AV,R=F,PA=120	
NGC 6796		Galaxy Sbc: sp	VF,PS,ME NS
Sep 05 2010	12"	5.5mmN CF,PS,EON,UB,NND,R=F,PA=45	
NGC 6869		Galaxy S0	PB,PS,R
Jul 27 2009	16"	11mmT6 PF,PS,R,UB,NND,R=F	
PGC 33277		Galaxy Sab	
Jul 13 2013	18"	7mm TV VF,VS,OVAL,UB,NND,AV,R=P	
Feb 23 2006	31"	17mmT4 FF,PS,EL,NND,R=F	
PGC 58960		Galaxy Sb	

Draco - The Dragon

PGC 58960

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

Galaxy Sb

Equuleus - The Little Horse

NGC 7046

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

H858-3

Galaxy SB(rs)cd

EF,PL,R,LBM

Eridanus - The River

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

Eridanus - The River

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

Eridanus - The River

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

These Need Fixed - Temporary Holder

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

Fornax - The Furnace

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

Gemini - The Twins

CR 89			Galaxy IV2pn	
Dec 28 2006 1.9"	12x50	LARGE,FEW STARS,R=F		
IC 443			Nebula E	
Nov 25 2006 8"	11mmT6	F,EL,R=F		
IC 2157			Open Cluster 12.0 II 1 p	
Nov 25 2006 8"	11mmT6	F,S,LOSE GROUPING,R=F		
NGC 2129		H26-8	Open Cluster 10.0 I 3 m	CL,PL,40OR50ST8...15
Dec 15 2004 8"	11mmT6	R, R=G		
NGC 2158		H17-6	Open Cluster 15.0 II 3 r	CL,PS,MC,VRI,IRRTRI
Dec 04 2004 8"	11mmT6	OVAL,R=F		
NGC 2168	M35		Open Cluster 8.0 III 3 r	CL,VL,CRI,PC,ST9..16
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUV			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Dec 28 2006 1.9"	12x50	B,L,RESOLVE OUTER STARS,R=G		
Oct 02 2006 1.9"	12x50	VB,VL,R=E. VERY NICE CLUSTER.		
Mar 19 2006 8"	19mmW	PB,PL,R=G. LOTS OF STARS		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 2266		H21-6	Open Cluster 11.0 II 2 m	CL,PS,EC,RI,ST11..15
Mar 04 2006 8"	19mmW	MB,S,R=F		
NGC 2274		H615-2	Galaxy E	F,S,BM
Apr 09 2008 8"	11mmT6	PF,VS,EON,NND,LSB,AV,R=F		
NGC 2289		H898-3	Galaxy S0	EF,VS
Sep 24 2016 12"	17mmT4	B,L,R=E. CAROLINE'S ROSE.		
NGC 2304		H2-6	Open Cluster II 1 m	CL,PL,RI,MC,ST VS
Mar 04 2006 8"	19mmW	F,S,R=F		
NGC 2331		H40-8	Open Cluster 9.0 IV 2 m	CL,L,VLC,S CL INV
Apr 09 2008 8"	11mmT6	F,S,SCATTERED,R=F		
Nov 25 2006 8"	11mmT6	F,LOOSE GROUP,R=F		
NGC 2339		H769-2	Galaxy SAB(rs)bc	PB,PL,R,GLBM
Dec 15 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		

Gemini - The Twins

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

Hercules - The Son of Zeus

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

Hercules - The Son of Zeus

NGC 6106		H151-2	Galaxy SA(s)c	F,PL,LE,VGBM,R
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
NGC 6146		H638-3	Galaxy E?	CF,VS,R,BM
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
NGC 6154		H680-3	Galaxy SB(r)a	VF,S,R,LBM,ER
Oct 17 2004 8"	7.5mmW	VF,EL,OVAL,NND,AV,R=F		
NGC 6155		H690-2	Galaxy S?	F,PS,IF,GBM
Oct 05 2016 12"	8mm Et	PF,VS,UB,NND,R=F		
Oct 17 2004 8"	7.5mmW	VF,EON,NND,AV,R=F		
NGC 6166		H875-2	Galaxy E+2 pec	PF,S,VLE,VGMBM
Oct 05 2016 12"	8mm Et	PF,PS,OVAL,MEXT,NND,R=F		
Oct 17 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
NGC 6173		H640-3	Galaxy E	CF,VS,R,BM
Oct 17 2004 8"	7.5mmW	VF,EL,FNUC,AV,R=F		
NGC 6181		H753-2	Galaxy SAB(rs)c	PB,PL,VLE,PGMBM
Oct 17 2004 8"	7.5mmW	VF,EL,NND,AV,R=F		
NGC 6186		H730-3	Galaxy (R')SB(s)a	EF,VS,E
May 21 2009 16"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 6196			Galaxy SAB0-: pec	VF,VS,STELLAR
Mar 18 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 6205	M13		Globular	GCL,EB,VRI,VGECM,*11
Apr 20 2018 12"	11mmT6			
Jul 02 2017 12"	17mmT4	LOOKED PRETTY GOOD		
May 14 2017 12"	11mmT6	GREAT		
May 30 2016 12"	8mm Ds	B,L,R=E. OUTSTANDING		
May 30 2016 12"	8mm Et	ALWAYS GREAT		
Aug 21 2015 12"	17mmT4			
Jul 15 2015 12"	17mmT4			
Oct 24 2012 8"	11mmT6	VERY NICE - EVEN IN 8"		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Sep 07 2006 1.9"	12x50	DIFF,MB,L,R=G		
Mar 27 2006 8"	19mmW	B,L,R,R=G,DENSE,RESOLVE OUTER STARS		
Apr 08 2005 8"	11mmT6	VB,VL,ROUND,R=E!!!		
Oct 31 2004 1.9"	12x50	BEST GLOBULAR YET, R=VG		
Aug 14 2004 8"	11mmT6	CAN SEPARATE THE FRONT STARS		

Hercules - The Son of Zeus

NGC 6205	M13	Globular	GCL,EB,VRI,VGECM,*11
Jun 19 2004 31"	17mmT4	***** AWESOME *****	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Nov 08 2003 8"	25mmPL	FIRST OBJECT @ WARREN RUPP OBSV.	
NGC 6207	H701-2	Galaxy SA(s)c	PB,PL,E45,VGMBM
Jul 16 2007 16"	11mmT6	PF,PS,EL.OVAL,FNUC,R=F	
Mar 18 2007 8"	11mmT6	PF,L,OVAL,NND,R=F	
Jun 03 2005 31"	19mmW	VB,ML,OVAL,FNUC,HISB,R=G	
Sep 12 2004 8"	11mmT6	F,S,EL, NND,AV,F	
NGC 6210		Planetary Neb 2+3b	PLN,VB,VS,R,DISC
Jul 07 2018 12"	8mm Et	PBB,S,R=E. OIII FILTER. ROUND DONUT	
Jun 17 2016 12"	8mm Ds	TURTLE PLANETARY. NO CENTRAL STAR NOTED	
Sep 19 2014 12"	11mmT6	B,VS,R=F,SITS ATOP 3-STAR TRIANGLE -N.N., HOME - 8/14/14	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6212		Galaxy S?	EF
Jul 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 6229	H50-4	Globular	GCL,VB,L,R,DISC,R
Jun 17 2016 12"	8mm Ds	COULD NOT RESOLVE	
May 30 2016 12"	8mm Ds	B,S,R=G. NICE SPOT.	
Oct 24 2012 8"	11mmT6	PF,PS,R=F, THIS WAS THE FAINTEST OF THE FOUR FOR THE NIGHT.	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6239	H727-3	Galaxy SB(s)b pec?	VF,E,BIN,NPSF
Jul 16 2009 16"	17mmT4	PF,PS,EON,UB,NND,R=F	
Mar 18 2007 8"	11mmT6	PF,L,OVAL,NND,AV,R=F	
NGC 6241	H735-3	Galaxy Sc	EF,PS
Jul 16 2009 16"	17mmT4	CF,PS,R,UB,NND,R=F	
NGC 6255	H689-3	Galaxy SBcd:	EF,CL,E90
Oct 17 2004 8"	7.5mmW	MB,EL,FNUC,R=G	
NGC 6269		Galaxy E	F,S,R
May 21 2009 16"	11mmT6	PF,PL,OVAL,UB,NND,R=F	
NGC 6278	H124-3	Galaxy S0	VF,STELLAR
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,FNUC,R=F	
NGC 6341	M92	Globular	GCL,VB,VL,ECM,ST S
Apr 20 2018 12"	11mmT6		
Jul 02 2017 12"	17mmT4	GOOD	
May 14 2017 12"	11mmT6	RESOLVED STARS	

Hercules - The Son of Zeus

NGC	6341	M92	Globular	GCL,VB,VL,ECM,ST S
	May 30 2016	12"	8mm Ds	B,L,R=E. OUTSTANDING. NOT AS LARGE AS M13 THOUGH.
	Aug 21 2015	12"	8mm Ds	
	Oct 24 2012	8"	11mmT6	STILL NICE.
	Mar 16 2012	18"	17mmAT	2012 M.M.
	Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
	Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
	Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
	Sep 07 2006	1.9"	12x50	DIFF,PF,PS,R=F
	Mar 27 2006	8"	19mmW	B,L,R,R=G,DENSE,RESOLVE OUTER STARS
	Oct 31 2004	1.9"	12x50	R=G
	Aug 14 2004	8"	11mmT6	
	Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
NGC	6343		Galaxy C	VF,S,LE,NF OF 2
	May 21 2009	16"	11mmT6	PF,PS,R,UB,NND,R=F
NGC	6347		Galaxy SBb	EF,IR,DIF
	May 21 2009	16"	11mmT6	VF,VS,EL,OVAL,NND,AV,R=F
NGC	6350		Galaxy S0	PF,PS,GBM
	May 21 2009	16"	11mmT6	CF,CS,R,UB,NND,R=F
NGC	6364		Galaxy S0	PF,VS,R,BM*13
	May 21 2009	16"	11mmT6	PF,PS,OVAL,FNUC,R=F
NGC	6372		H137-3 Galaxy Sb? pec	VF,PS,IF,SF OF 2
	May 21 2009	16"	11mmT6	CF,PS,OVAL,NND,R=F
NGC	6389		H901-2 Galaxy Sbc	F,S,IF,ER
	May 21 2009	16"	11mmT6	CF,PS,OVAL,UB,NND,R=F
NGC	6408		Galaxy SB(rs)a	F,S,IR,GBM
	May 21 2009	16"	11mmT6	CF,PS,R,UB,NND,R=F
NGC	6417		Galaxy SB(r)b:	PF,S,VLBM
	May 21 2009	16"	11mmT6	VF,VS,R,NND,AV,R=F
NGC	6427		Galaxy S0-:	VF,VS,STELLAR
	May 21 2009	16"	11mmT6	CF,CS,EON,NND,R=F
NGC	6429		Galaxy SBa	F,S,STELLAR
	May 21 2009	16"	11mmT6	CF,PS,EON,NND,R=F
NGC	6442		Galaxy E	PF,S,IR,GBM
	May 21 2009	16"	11mmT6	PF,PS,OVAL,FNUC,R=F

Hercules - The Son of Zeus

NGC 6447			Galaxy SB?	VF,S,R
May 21 2009 16"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F		
NGC 6458			Galaxy S0	EF,VS,STELLAR
May 21 2009 16"	11mmT6	VF,CS,EL,OVAL,NND,AV,R=F		
NGC 6460			Galaxy Scd:	VF,PL,IR
May 21 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
NGC 6468			Non-Existent	VF,S,R
May 21 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
NGC 6482			Galaxy E:	VF,S,R,VSVMBMVS RN
Jul 24 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 6484			Galaxy Sb:	EF,VS,R,MBM
May 21 2009 16"	11mmT6	PF,PS,R,FNUC,R=F		
NGC 6485			Galaxy Sbc	VF,VS,R
May 21 2009 16"	11mmT6	CF,PS,R,UB,NND,R=F		
NGC 6487			Galaxy E	F,S,R,GBM
May 21 2009 16"	11mmT6	PF,PS,R,UB,,NND,R=F		
NGC 6490			Galaxy S0-?	VF,VS,STELLAR
May 21 2009 16"	11mmT6	VF,CS,OVAL,NND,AV,R=F		
NGC 6495			Galaxy E	F,S,R
May 21 2009 16"	11mmT6	PF,PS,R,FNUC,R=F		
NGC 6500		H957-3	Galaxy SAab:	VF,VS,SP OF 2
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=F		
NGC 6501		H958-3	Galaxy SA0+:	VF,VS,NF OF 2
May 21 2009 16"	11mmT6	PF,PS,OVAL,FNUC,MSB,R-F		
NGC 6504			Galaxy S	F,VME,SBM
May 21 2009 16"	11mmT6	PF,PS,EON,FNUC,MSB,R=F		
NGC 6548		H555-3	Galaxy SB0	CF,S,LE,R
Nov 13 2007 8"	11mmT6	DIFF,PF,PS,R,NND,R=F		
NGC 6555		H902-2	Galaxy SAB(rs)c	F,L,R,VGLBM
Mar 18 2007 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 6574			Galaxy SAB(rs)bc:	PB,S,R
May 21 2009 16"	11mmT6	PF,CS,OVAL,FNUC,UB,R=F		

Hercules - The Son of Zeus

NGC 6628		Galaxy S0?	VF,S,LE,BM
Aug 21 2015 12"	17mmT4		
NGC 6635		Galaxy S0 pec:	VF,S,R
Jun 04 2005 31"	17mmT4	VF,VS,OVAL,NND,R=F	
PAL 14		Globular	
May 21 2009 16"	11mmT6	CF,PS,R=F, UNRESOLVED,STAR IN FRONT.	
PGC 56398		Galaxy S0	
May 21 2009 16"	11mmT6	CF,CS,R,UB,NND,R=F	
PGC 56544		Galaxy S0-:	
May 21 2009 16"	11mmT6	CF,PS,EL,OVAL,NND,R=F	
PGC 56685		Galaxy SAB0-	
Jul 16 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F	
PGC 58867		Galaxy Sc	
Jul 16 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
PGC 58895		Galaxy	
Jul 16 2009 16"	17mmT4	PB,CS,R,BNUC,R=G	
PGC 59061		Galaxy Sa	
Jul 16 2009 16"	17mmT4	CF,PS,R,UB,NND,R=F	
PGC 59062		Galaxy S0 pec:	
Jul 16 2009 16"	17mmT4	VF,CS,OVAL,NND,AV,R=F	
PGC 59102		Galaxy Sb	
Jul 16 2009 16"	17mmT4	CF,PS,R,NND,R=F	

Horologium - The Clock

IC 1924		Galaxy S	
Dec 07 2005 31"	19mmW	MB,ML,OVAL,NND,MSB,R=G	

Hydra - The Water Snake

NGC 2548	M48	H22-6	Open Cluster 8.0 I 3 r	CL,VL,PRI,PMC,*9..13
May 22 2015 12"	17mmT4	TYPICAL OPEN CLUSTER R=F		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 19 2006 8"	25mmPL	F,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004 8"	25mmPL	1ST. QTR.		
NGC 2610		H35-4	Planetary Neb 4+2	F,S,ATTTO*13,*7NF
Mar 29 2006 8"	11mmT6	PF,PS,R=F		
NGC 2765		H520-2	Galaxy S0	VF,PL,E,GBM,ER
Mar 29 2006 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
NGC 2781		H66-1	Galaxy SAB(r)0+	B,S,VLE,PSMBM
Mar 16 2010 12"	11mmT6	PB,PS,EON,BNUC,R=G		
NGC 2784		H59-1	Galaxy SA(s)0^:	B,L,ME64,GMBM
Mar 16 2010 12"	11mmT6	PB,PS,OVAL,UB,FNUC,R=F		
NGC 2811		H505-2	Galaxy SB(rs)a	PB,PS,E,PSMBM
Mar 29 2006 8"	11mmT6	PF,PS,EL,OVAL,NND,AV,R=F		
NGC 2855		H132-1	Galaxy (R)SA(rs)0/a	PB,PL,R,GMBMN
Mar 16 2010 12"	11mmT6	PB,PS,OVAL,UB,FNUC,R=F		
NGC 2889		H555-2	Galaxy SAB(rs)c	PF,PS,VLE,VGLBM,R
Mar 16 2010 12"	11mmT6	PF,CS,R,UB,NND,R=F		
NGC 2962			Galaxy (R)SAB(rs)0+	F,VS,VLE,PSBM
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 2983		H289-3	Galaxy SB(rs)0+	F,PS,R,BM,R,STELLAR
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
NGC 2986		H311-2	Galaxy E2	PB,PS,IR,MBM
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
NGC 2992		H277-3	Galaxy Sa pec	CF,S,R,BM,STEL,P OF2
Apr 08 2005 8"	7.5mmW	VF,VS,EL,EON,NND,AV,R=F		
NGC 2993		H278-3	Galaxy Sa pec	CF,S,R,BM,STEL,F OF2
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 3052		H272-3	Galaxy SAB(r)c:	F,PL,R,GLBM,NF OF 2

Hydra - The Water Snake

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

Hydra - The Water Snake

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

NGC 4590 **M68** **Globular** **GCL,L,ERI,VC,IR,ST12**
 May 14 2017 12" 11mmT6 LOW ON HORIZON. JUST A SMUDGE
 May 30 2016 12" 8mm Et PF,PS,R=F. LOW ON HORIZON
 Mar 16 2012 18" 17mmAT 2012 M.M.
 Mar 01 2011 12" 17mmAT M.M. 2011 - MANUAL SETTING CIRCLES
 Mar 08 2010 12" 11mmT6 M.M. 2010 MANUAL SETTING CIRCLES
 Mar 20 2009 16" 26mm MESSIER MARATHON - 2009
 Mar 27 2006 8" 19mmW F,L,R,R=F, DENSE CLUSTER
 Mar 19 2004 8" 25mmPL 2004 MESSIER MARATHON - ARGO NAVIS

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

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

NGC 5236 **M83** **Galaxy SAB(s)c** **VB,VL,E55,ESBMN,SPIR**
 Mar 16 2012 18" 17mmAT 2012 M.M.
 Mar 01 2011 12" 17mmAT M.M. 2011 - MANUAL SETTING CIRCLES
 Mar 08 2010 12" 11mmT6 M.M. 2010 MANUAL SETTING CIRCLES
 Mar 20 2009 16" 26mm MESSIER MARATHON - 2009
 Mar 27 2006 8" 19mmW DIFF,F,L,OVAL,,NND,R=F
 Mar 19 2004 8" 25mmPL 2004 MESSIER MARATHON - ARGO NAVIS

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

Indus - The Indian

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

Leo Minor - The Little Lion

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

Leo Minor - The Little Lion

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

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

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

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PGC 68713

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

Galaxy Sb

PGC 68715

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

Galaxy S

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

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

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

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MAC 1047+1246 Galaxy

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

MAC 1049+1616 Galaxy

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

MAC 1049+1617 Galaxy

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

MAC 1104+0501 Galaxy

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

MAC 1109+2157 Galaxy

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

MAC 1109+2158 Galaxy

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

MAC 1110+2158 Galaxy

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

MAC 1110+2206 Galaxy

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

MAC 1110+2208 Galaxy

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

MAC 1110+2213 Galaxy

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

MAC 1118+0937 Galaxy

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

MAC 1120+0255A Galaxy

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

MAC 1120-0558 Galaxy

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

MAC 1120+1340 Galaxy

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

MAC 1145+1952 Galaxy

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

MAC 1145+2001 Galaxy

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

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

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NGC 2906 Mar 16 2010 12"	11mmT6	H495-2 CF,CS,OVAL,MEXT,UB,NND,R=G	Galaxy Scd:	F,PS,LE,GBM
NGC 2911 Mar 16 2010 12"	11mmT6	H40-2 CF,CS,OVAL,UB,NND,R=F	Galaxy SA(s)0: pec	F,PL,R,GBM,P OF 2
NGC 2913 Mar 30 2014 18"	7mm TV	VF,VS,OVAL,MEXT,NND,R=F	Galaxy S?	VF,PL,IR
NGC 2916 Apr 02 2008 8" Feb 10 2005 8"	11mmT6 11mmT6	H260-2 PF,PS,OVAL,NND,AV,R=F VF,VS,OVAL,NND,AV,R=F	Galaxy SA(rs)b?	F,S,VLE
NGC 2918 Apr 09 2010 12"	11mmT6	H298-3 PF,PS,OVAL,UB,NND,R=F	Galaxy E	VF,CS,R,SBMN
NGC 2919 Apr 09 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=P	Galaxy SAB(r)b:	F,PS
NGC 2927 Mar 06 2005 8"	11mmT6	VF,VS, OVAL,NND,AV,R=F	Galaxy SAB(rs)b	F,PL,R,LBM
NGC 2939 Mar 16 2010 12"	11mmT6	H4-3 VF,VS,OVAL,NND,AV,R=F	Galaxy Sbc	VF,S,VLE,BM,TRI STNF
NGC 2943 Apr 09 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F	Galaxy E	F,S,IR,BM,F OF2
NGC 2964 Feb 10 2005 8"	11mmT6	H114-1 MB,ML,EL,OVAL,PATCHY,NND,MSB,R=G	Galaxy SAB(r)bc:	B,VL,LE,VGBM,SP OF 3
NGC 2968 Feb 10 2005 8"	11mmT6	H491-2 DIFF,MF,MS,OVAL,NND,AV,R=F	Galaxy I0	PB,PL,LE,VGLBM,2ND-3
NGC 2970 Apr 13 2005 31"	17mmT4	MB,OVAL,NND,R=F	Galaxy E1:	F,NF OF 3
NGC 2981 Apr 13 2005 31"	17mmT4	VF,MS,OVAL,NND,AV,R=F	Galaxy SAB(rs)bc:	VF
NGC 2988 Apr 28 2006 31"	19mmW	CF,CS,R,FNUC,R=F	Galaxy SBbc	EF,P 2991
NGC 3020 Apr 29 2011 12"	5mm TV	H51-3 CF,PS,OVAL,MEXT,R=F,PA=50	Galaxy SB(r)cd:	EF,PS,LE0,R
NGC 3032			Galaxy SAB(r)0^	F,S,SBM*12,BET2B*

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NGC 3032			Galaxy SAB(r)0[^]	F,S,SBM*12,BET2B*
Feb 10 2005	8"	11mmT6	VF,VS,EL,NND,AV,R=F	
NGC 3041			H98-2 Galaxy SAB(rs)c	GCL,F,L,R,VGLBM,RR
Apr 05 2005	8"	11mmT6	MF,MS,OVAL,NND,AV,R=F	
NGC 3049			Galaxy SB(rs)ab	VF,VS,F*V NR
Apr 17 2015	18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F	
NGC 3053			H600-3 Galaxy SBa?	VF,S,VLE,GBM
Mar 16 2010	12"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 3067			H492-2 Galaxy SAB(s)ab?	PB,PL,E106,GBM,*94'P
Apr 05 2005	8"	11mmT6	MF,MS,EL,OVAL,NND,R=F	
NGC 3070			H59-2 Galaxy E	PB,PS,R,GMBMN,AM3ST
Mar 29 2006	8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
NGC 3094			Galaxy SB(s)a	F,BM,*9 30"SF
Apr 07 2008	31"	17mmT4	B,S,OVAL,UB,HSB,R=G	
NGC 3098			Galaxy S0 sp	PB,S,E85,PSBMN
Apr 05 2005	8"	11mmT6	VF,MS,EL,EON,NND,R=F	
NGC 3107			H898-2 Galaxy Sbc:	PF,PL,IR,*8NP 112"
Apr 07 2008	31"	17mmT4	F,S,OVAL,UB,NND,R=F	
NGC 3119			Non-Existent	VF
Apr 07 2008	31"	17mmT4	F,PS,OVAL,UB,NND,R=F	
NGC 3130			Galaxy S0/a	EF,S,PSBM,*5SF
Apr 15 2007	31"	17mmT4	PB,L,OVAL,FNUC,R=G	
NGC 3131			Galaxy SBb:	PB,PS,PME,GBM
Apr 15 2007	31"	17mmT4	PB,PL,EON,FNUC,R=G	
NGC 3153			H53-3 Galaxy Scd:	EF,PL,VLE,R,ST INV
Apr 15 2007	31"	17mmT4	PB,VL,OVAL,NND,R=G	
NGC 3154			Galaxy Sb	F,S,R,LBM
Apr 15 2007	31"	17mmT4	PB,L,EL,OVAL,FNUC,MSB,R=G	
NGC 3162			H43-2 Galaxy SAB(rs)bc	PF,CL,R,VGLBM,R,*INV
Apr 05 2005	8"	11mmT6	DIFF,VF,ML,OVAL,NND,AV,R=F	
NGC 3177			H25-3 Galaxy SA(rs)b	CF,S,R,PSBM
Apr 15 2007	31"	17mmT4	VB,PL,OVAL,BNUC,HISB,R=G	

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

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NGC 3226		H28-2	Galaxy E2: pec	PB,CL,R,DW/3227
Apr 26 2006 8"	11mmT6	PF,PS,OVAL,NND,R=F		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 3227		H29-2	Galaxy SAB(s)a pec	PB,CL,R,DW/3226
Apr 26 2006 8"	11mmT6	F,S,EL,R,NND,R=F		
Mar 23 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 3230			Galaxy S0	PF,PS,SBM*14,*9S19"
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G		
NGC 3239		H10-4	Galaxy IB(s)m pec	VF,*9INV NR M
Apr 21 2007 31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F		
NGC 3248		H347-2	Galaxy S0	PB,S,R,PSBM
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G		
NGC 3253			Galaxy SAB(rs)bc	VF,PS,R
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F		
NGC 3270		H331-3	Galaxy SAB(r)b:	CF,VS,E,GLBM
Apr 21 2007 31"	17mmT4	PB,PL,EON,FNUC,R=G		
NGC 3274		H358-2	Galaxy SABd?	F,PL,R,GLBM,D* F
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 3279			Galaxy Sd	F,ME
Apr 19 2006 31"	19mmW	B,PL,MEON,UB,NND,R=G		
NGC 3287			Galaxy SB(s)d	F,PL,D*P24S,S4'
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,EL,OVAL,NND,R=F		
NGC 3299		H54-3	Galaxy SAB(s)dm	EF,CL,R,VGBM,R
Apr 21 2007 31"	17mmT4	DIFF,CF,PL,OVAL,NND,AV,R=F		
NGC 3300		H55-3	Galaxy SAB(r)0^:?	CF,CS,R,PMBM,R,AMBST
Apr 21 2007 31"	17mmT4	CB,PL,OVAL,FNUC,MSB,R=G		
NGC 3301		H46-2	Galaxy SB0-a	CB,S,LE53,PSBM,R
Mar 06 2005 8"	11mmT6	MB,MS,EL,FNUC,MSB,R=G		
NGC 3303		H66-3	Galaxy Pec	VF,VS,VLE,GLBM,R
Apr 21 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F		
NGC 3306			Galaxy SB(s)m?	F,S,R
Apr 21 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F		

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NGC 3332		H272-1	Galaxy (R)SA0-	VF,S,LE130
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F		
NGC 3338		H77-2	Galaxy SA(s)c	F,CL,E,VGBM,*7P10S
May 15 2017 12"	7mm TV	VF,PS,OVAL,UB,NND,R=F		
Apr 26 2009 16"	17mmT4	PF,PS,EL,OVAL,UB,NND,R=F		
Mar 06 2005 8"	11mmT6	VF,MS,EL,OVAL,PATCHY,NND,AV,R=G		
NGC 3346		H7-5	Galaxy SB(rs)cd	CF,VL,R,VGVLBM,ER
Apr 21 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F		
NGC 3349			Galaxy Sc	EF,VS
Apr 21 2007 31"	17mmT4	DIFF,CF,CS,R,NND,R=F		
NGC 3351	M95		Galaxy SB(r)b	B,L,R,PGMBMN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F		
Mar 19 2006 8"	19mmW	FB,L,OVAL,RNUC,HISB,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004 8"	25mmPL	1ST. QTR.		
NGC 3352			Galaxy S0	PB,S,R,BMN
Apr 07 2008 31"	17mmT4	B,PS,OVAL,FNUC,R=F		
NGC 3356		H107-3	Galaxy Sbc	VF,PS,R,BM,*9S150"
Apr 21 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G		
NGC 3357			Galaxy E+:	F,S,MBM
Apr 07 2008 31"	17mmT4	B,PS,R,FNUC,HSB,R=G		
NGC 3362			Galaxy SABc	VF,PS,R,LBM,R
Apr 07 2008 31"	17mmT4	F,L,OVAL,UB,NND,R=F		
NGC 3363			Galaxy S?	F,PS,IR,LBM,R
Apr 07 2008 31"	17mmT4	F,L,OVAL,UB,NND,R=F		
NGC 3367		H78-2	Galaxy SB(rs)c	PB,CL,IR,VGLBM,R,1-3
May 15 2017 12"	7mm TV	VF,PS,R,UB,NND,R=G		
Apr 26 2009 16"	17mmT4	PF,CS,R,UB,NND,R=F		
Mar 19 2004 8"	25mmPL	*12.0 MAG. 2004 MESSIER MAR.*		
NGC 3368	M96		Galaxy SAB(rs)ab	VB,VL,LE,VSVMBM,R
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		

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NGC 3368	M96	Galaxy SAB(rs)ab	VB,VL,LE,VSVMBM,R
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 19 2006 8"	19mmW	FB,L,OVAL,RNUC,HISB,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 25 2004 8"	25mmPL	1ST. QTR.	
NGC 3370		H81-2 Galaxy SA(s)c	CB,PL,VLE,GBM,R
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
NGC 3371		Galaxy	EF,R,2ND OF 3
May 15 2017 12"	7mm TV	PF,PS,OVAL,MEXST,FNUC,R=F	
NGC 3373		Galaxy SA0:	F,R,3RD OF 3
May 15 2017 12"	7mm TV	PF,VS,OVAL,MEXTMFNUC,R=G	
NGC 3377		H99-2 Galaxy E5-6	VB,CL,LE,SVMBMBN
May 15 2017 12"	7mm TV	PF,PS,OVAL,FNUC,R=G	
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F	
Apr 26 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 3377A		Galaxy SAB(s)m	
May 15 2017 12"	7mm TV	VF,VS,OVAL,UB,NND,R=F	
NGC 3379	M105	H17-1 Galaxy E1	VB,CL,R,PSBM,R
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Apr 02 2008 8"	11mmT6	PB,PLM,R,BNUC,HSB,R=G	
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 19 2006 8"	19mmW	FB,CL,OVAL,BNUC,HISB,R=G	
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 25 2004 8"	25mmPL	1ST. QTR.	
NGC 3384		H18-1 Galaxy SB(s)0-:	VB,L,R,PSMBM,2ND OF3
Apr 02 2008 8"	11mmT6	PB,PL,OVAL,UB,FNUC,R=G	
Apr 26 2006 8"	11mmT6	FB,PS,OVAL,UB,R=G	
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 3389		H41-2 Galaxy SA(s)c	F,L,E PF,VGLBM,3RD-3

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NGC 3389		H41-2	Galaxy SA(s)c	F,L,E PF,VGLBM,3RD-3
Apr 02 2008 8"	11mmT6	PF,PS,OVAL,NND,R=F		
Apr 26 2006 8"	11mmT6	PF,PS,EL,OVAL,NND,R=F		
NGC 3391			Galaxy S?	F,S,R,BET2* NR
Apr 07 2008 31"	17mmT4	B,PS,OVAL,UB,NND,HSB,R=F		
NGC 3399			Galaxy S0?	F,VS
Apr 07 2008 31"	17mmT4	PB,S,R,UB,NND,HSB,R=G		
NGC 3405			Galaxy S0	F,ES,ALMSTELL,S*NR
Apr 07 2008 31"	17mmT4	PB,S,R,UB,NND,HSB,R=G		
NGC 3412		H27-1	Galaxy SB(s)0^	B,S,LE135,SMBMN
Apr 26 2006 8"	11mmT6	FB,PS,OVAL,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 3417			Galaxy	EF,VS,ALM STELL
Apr 07 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F		
NGC 3419			Galaxy (R)SAB(r)0+	F,VS,R,ALMSTEL,S*VNR
Apr 07 2008 31"	17mmT4	PB,PS,R,BNUC,HSB,R=G		
NGC 3419A			Galaxy SB(s)b: sp	
Apr 07 2008 31"	17mmT4	PF,PS,EON,UB,NND,R=F		
NGC 3425		H108-3	Non-Existent	EF,ES,R
Apr 07 2008 31"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 3426			Galaxy S?	PF,S,R,D*N
Apr 07 2008 31"	17mmT4	PB,PS,OVAL,BNUC,HSB,R=G		
NGC 3427			Galaxy S0/a	NEB,NO DESCR
Apr 07 2008 31"	17mmT4	B,S,EL,OVAL,FNUC,R=F		
NGC 3428			Galaxy SAB(s)b	VF,S,LE,GLBM
Apr 07 2008 31"	17mmT4	B,L,EON,UB,NND,R=F		
NGC 3437		H47-2	Galaxy SAB(rs)c:	PB,PL,LE120,GBM
May 13 2007 8"	11mmT6	VF,CS,EL,OVAL,NND,AV,F		
NGC 3454			Galaxy SB(s)c? sp	PF,LE,NP OF 2
May 25 2014 18"	8mm Ds	PF,VS,EON,UB,NND,R=F,PA=110		
NGC 3455		H82-2	Galaxy (R')SAB(rs)b	PF,S,E,GBM,R,SF OF 2
May 25 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		

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NGC 3457		Galaxy S?	2OR3S* AND NEB
May 13 2007 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
NGC 3485		H100-2 Galaxy SB(r)b:	F,L,R,GLBM,R
Apr 19 2007 31"	17mmT4	B,L,OVAL,UB,FNUC,R=G	
NGC 3487		Galaxy Sb? sp	EEF,PS,R, V DIFFIC
Apr 19 2007 31"	17mmT4	B,L,EL,OVAL,UB,NND,RR=F	
NGC 3489		H101-2 Galaxy SAB(rs)0+	VB,PL,LE80,SMBMN
Apr 26 2006 8"	11mmT6	FB,FS,OVAL,UB,FNUC,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 3490		Galaxy E	VF,S
Apr 19 2007 31"	17mmT4	CF,PS,R,UB,NND,R=F	
NGC 3491		H21-3 Galaxy S0-:	EF,CS,R,BMN
Apr 19 2007 31"	17mmT4	CB,CL,R,BNUC,HISB,R=F	
NGC 3492		Galaxy S?	PF,S,*9P20S,1'S
Apr 19 2007 31"	17mmT4	PB,L,OVAL,UB,FNUC,R=G	
NGC 3495		H498-3 Galaxy Sd:	VF,PL,ME
Apr 19 2007 31"	17mmT4	B,PL,EON,FNUC,MHISB,R=G	
NGC 3501		Galaxy Scd:	VF,ME NS,GBM,3'LONG
Apr 19 2007 31"	17mmT4	B,L,EON,UB,NND,R=G	
NGC 3506		H22-3 Galaxy Sc:	VF,CS,R,VGV LBM
Apr 19 2007 31"	17mmT4	PB,L,R,FNUC,MHISB,R=G	
NGC 3507		H7-4 Galaxy SB(s)b	CF,PL,R,SBMS*,*9ATT
Mar 06 2005 8"	11mmT6	DIFF,VF,MS,OVAL,NND,AV,R=F	
NGC 3509		H598-3 Galaxy SA(s)bc pec	EF,S,(LE)
Apr 19 2007 31"	17mmT4	B,PL,EL,OVAL,FNUC,MHISB,R=G	
NGC 3521		H13-1 Galaxy SAB(rs)bc	CB,CL,ME140,VSMBMN
Apr 26 2006 8"	11mmT6	PB,PL,OVAL,BNUC,HISB,R=G	
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 3522		Galaxy E	PF,VS,LE
Apr 19 2007 31"	17mmT4	PB,PS,OVAL,FNUC,R=G	
NGC 3524		H23-3 Galaxy S0/a	F,S,LE,PSBM,2*NPLINE

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NGC 3524		H23-3	Galaxy S0/a	F,S,LE,PSBM,2*NPLINE
Apr 19 2007	31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G	
NGC 3531			Non-Existent	E50,*11SPEND,(=3526)
Apr 19 2007	31"	17mmT4	B,PL,EON,UB,NND,R=F	
NGC 3534			Galaxy Sb	VF,*9NP 3'
Apr 19 2007	31"	17mmT4	CF,PL,EL,OVAL,UB,NND,R=G	
NGC 3535		H111-3	Galaxy SA(s)a pec:	CF,VS,R,BM,R
Apr 19 2007	31"	17mmT4	PB,CS,OVAL,BNUC,R=G	
NGC 3547		H42-2	Galaxy Sb:	F,S,LE,VLBM
Apr 19 2007	31"	17mmT4	PB,L,UB,NND,R=G	
NGC 3551			Galaxy	EEF,VS,R,SP OF 2
Apr 19 2007	31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 3555			Galaxy E?	VF,R,NF OF 2
Apr 19 2007	31"	17mmT4	PF,PS,R,UB,NND,R=F	
NGC 3559		H79-3	Galaxy S pec	EF,PS,LE,R
Apr 19 2007	31"	17mmT4	B,PL,OVAL,UB,NND,R=F	
NGC 3563			Galaxy SB0:	PF,PL,*8M2'N
Apr 19 2007	31"	17mmT4	PB,PL,OVAL,FNUC,MHISB,R=G	
NGC 3563A			Non-Existent	
Apr 19 2007	31"	17mmT4	PB,PS,OVAL,FNUC,R=F	
NGC 3563B			Galaxy S0-a	
Mar 08 2013	18"	8.8 ES	VF,PS,OVA,,UB,NND,R=F, PAIRED W/NGC-3563A	
NGC 3567		H89-3	Galaxy S0 pec	EF,R,SBM,R
Mar 08 2013	18"	8.8 ES	VF,PS,OVAL,UB,NND,R=F	
NGC 3574			Galaxy S?	EF
Mar 08 2013	18"	8.8 ES	VF,PS,R,UB,NND,R=F	
NGC 3575			Non-Existent	PB,PL,R,*11P
Apr 14 2016	12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 3592			Galaxy Sc? sp	EF,S,PME60
Mar 08 2013	18"	8.8 ES	PF,PS,EON,UB,NND,R=F	
NGC 3593		H29-1	Galaxy SA(s)0/a:	B,CL,E90,PSMBM

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NGC 3593		H29-1	Galaxy SA(s)0/a:	B,CL,E90,PSMBM
Apr 26 2006 8"	11mmT6	F,L,EON,NND,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 3596		H102-2	Galaxy SAB(rs)c	PF,L,R,GLBM
Mar 06 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 3598			Galaxy S0-:	F,VS,STELL,*N
Mar 16 2010 12"	11mmT6	CF,PS,OVAL,UB,NND,R=F		
NGC 3599		H49-2	Galaxy SA0:	B,PS,R,PGMBM
Apr 05 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 3604		H626-2	Galaxy	PB,S,LE,MBM
May 13 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
NGC 3605		H27-3	Galaxy E4-5	F,S,R,SP OF 3
May 13 2007 8"	11mmT6	PF,PS,R,NND,R=F		
NGC 3607		H50-2	Galaxy SA(s)0^:	VB,L,R,VMBM,2ND OF 3
Apr 26 2006 8"	11mmT6	PB,L,R,BNUC,HISB,R=G		
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER		
NGC 3608		H51-2	Galaxy E2	B,PL,R,PSBM,3RD OF 3
Apr 26 2006 8"	11mmT6	B,CL,OVAL,NND,R=F		
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER		
NGC 3611		H521-2	Galaxy SA(s)a pec	PF,CS,IR,PSMBM,*NP3'
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,NND,LSB,R=F		
NGC 3623	M65		Galaxy SAB(rs)a	B,VL,ME165,GBMBN
Apr 20 2018 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Apr 15 2007 31"	32mmUV	VB,VL,EON,BNUC,HISB,R=E		
Mar 10 2007 1.9"	12x50	VF,PS,OVAL,NND,AV,R=F		
Mar 19 2006 8"	19mmW	PB,L,EL,OVAL,FNUC,R=G		
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004 8"	25mmPL	1ST. QTR.		
NGC 3624			Galaxy SB(r)b	EF
Apr 15 2007 31"	17mmT4	PF,S,OVAL,NND,R=F		

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NGC 3626		H52-2	Galaxy S0-a	B,S,VLE,SBM
Apr 26 2006 8"	11mmT6	B,PS,OVAL,FNUC,MSB,R=F		
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER		
NGC 3627	M66		Galaxy SAB(s)b	B,VL,ME150,MBM,2*NP
Apr 20 2018 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Apr 15 2007 31"	32mmUV	VB,PL,EL,OVAL,BNUC,HISB,R=G		
Mar 10 2007 1.9"	12x50	B,PL,OVAL,NND,R=G		
Mar 19 2006 8"	19mmW	PB,PL,EL,OVAL,BNUC,R=G		
Apr 04 2005 8"	11mmT6	VB,ML,EL,EON,NUC,HISB,R=E		
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 25 2004 8"	25mmPL	1ST. QTR.		
NGC 3628		H8-5	Galaxy Sb pec sp	PB,VL,VME102
Apr 26 2006 8"	11mmT6	PF,CL,EON,NND,R=F		
May 12 2004 8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 3629		H338-2	Galaxy SA(s)cd:	CF,L,R,VGVLBM
Apr 15 2007 31"	17mmT4	F,PL,OVAL,NND,R=F		
NGC 3630			Galaxy S0 sp	PB,S,R,SMBMN
Apr 15 2007 31"	17mmT4	VB,PL,EONB,BNUC,HISB,R=G		
NGC 3633			Galaxy SAa: sp	VF,S,R,2ST NR
Apr 15 2007 31"	17mmT4	PB,L,EON,UB,NND,R=F		
NGC 3639			Galaxy S?	PF,S,R,VLBM,15'F2376
Apr 15 2007 31"	17mmT4	B,L,OVAL,UB,NND,R=F		
NGC 3640		H33-2	Galaxy E3	B,PL,R,PSBM
Apr 15 2007 31"	17mmT4	PB,L,R,BNUC,HISB,R=G		
Apr 26 2006 8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 3641			Galaxy E pec	F,VS,ALMSTEL,3640N2'
Apr 15 2007 31"	17mmT4	PB,S,R,BNUC,HISB,R=G		
NGC 3643			Galaxy SB(r)0+: sp	EF,VS
Apr 15 2007 31"	17mmT4	F,L,OVAL,UB,NND,R=F		
Mar 17 2007 8"	11mmT6	F,PS,OVAL,FNUC,R=F		

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NGC 3644			Galaxy (R')SBa pec:	VF,VS
Apr 15 2007 31"	17mmT4	PF,S,EL,OVAL,UB,NND,R=F		
NGC 3646		H15-3	Galaxy Ring	CF,CL,LE,GBM,SP OF 2
May 13 2007 8"	11mmT6	CF,PS,OVAL,NND,R=F		
NGC 3651		H335-3	Galaxy E	CF,VS,R,BM,NP OF 2
Apr 26 2008 31"	17mmT4	PB,S,OVAL,UB,NND,R=F		
NGC 3653		H336-3	Galaxy S0?	VF,VS,SF OF 2
Apr 26 2008 31"	17mmT4	PB,S,OVAL,NND,MSB,R=F		
NGC 3655		H5-1	Galaxy SA(s)c:	PB,PS,IR,BM,R
Mar 13 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 3659		H53-2	Galaxy SB(s)m?	CF,S,LE,R
Apr 13 2005 31"	11mmT6	MB,ML,EL,OVAL,NND,MSB,R=G		
NGC 3662		H4-4	Galaxy SAB(r)bc pec	VF,S,ATT TO*13M
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,NND,R=F		
NGC 3664			Galaxy SB(s)m pec	PF,BIN
Mar 17 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 3665		H219-1	Galaxy SA(s)0^	CB,CL,IR,PGMBM
Mar 17 2007 8"	11mmT6	PB,L,OVAL,BNUC,R=G		
NGC 3666		H20-1	Galaxy SA(rs)c:	F,E90,*6F34S,5'N
May 13 2007 8"	11mmT6	CF,PS,EON,NND,R=F		
NGC 3678			Galaxy Sbc	VF,S,R,PSBM,*12NF
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,NND,AV3,R=P		
NGC 3679		H112-3	Galaxy Sbc	EF,CL,R,R,VNR VB*
Mar 30 2014 18"	7mm TV	VF,VS,OVAL,NND,AV1,R=P		
NGC 3681		H159-2	Galaxy SAB(r)bc	B,PS,R,BM
Apr 20 2018 12"	11mmT6			
May 13 2007 8"	11mmT6	CF,CS,R,NND,AV,R=P		
NGC 3684			Galaxy SA(rs)bc	PB,PL,E,VGBM
Apr 20 2018 12"	11mmT6			
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 3686		H160-2	Galaxy SB(s)bc	PB,L,VLE,VGBM,R
Apr 20 2018 12"	11mmT6			
Apr 26 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		

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NGC 3689		H339-2	Galaxy SAB(rs)c	PB,PL,LE,BM
Apr 14 2016 12"	8mm Ds	PF,PS,OVAL,MEXT,NND,R=F		
May 13 2007 8"	11mmT6	F,VS,R,NND,AV,R=F		
NGC 3691		H54-2	Galaxy SBb?	F,PS,LE,R
Apr 14 2016 12"	8mm Ds	VF,VS,OVAL,NND,AV,R=F		
NGC 3692		H152-2	Galaxy Sb	F,ME,R
Apr 14 2016 12"	8mm Ds	VF,VS,EON,UB,NND,R=F		
NGC 3697			Galaxy SABb	EF,VS,E90
Mar 30 2014 18"	7mm TV	VF,VS,EON,UB,NND,AV1,R=F,PA=95		
Apr 26 2008 31"	17mmT4	DIFF,PF,PL,EON,UB.NND,R=G		
NGC 3701		H349-2	Galaxy Sbc	PF,PL,LE
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,AV,R=F,PA=135		
NGC 3705		H13-2	Galaxy SAB(r)ab	PF,PL,R,VSMBM,R
May 13 2007 8"	11mmT6	PF,CS,OVAL,NND,R=F		
NGC 3710		H350-2	Galaxy E	F,S,*7,8NF 5'
May 14 2010 31"	17mmT4	PB,PS,R,BNUC,HSB,R=G		
NGC 3713		H367-2	Galaxy S0-:	F,CS,R,SBMN
May 14 2010 31"	17mmT4	PB,PS,OVAL,MEXT,BNUC,HSB,R=G		
NGC 3716			Galaxy (R)SAB0^?	VF,VS
May 14 2010 31"	17mmT4	PF,PS,OVAL,MEXT,UB,FNUC,R=F		
NGC 3760			Non-Existent	B,PS,MBMN=*13,*11 NR
Mar 30 2014 18"	7mm TV	B,PS,EON,BNUC,R=G,PA=45		
NGC 3773		H81-3	Galaxy S0	CF,CS,R,PSBM
Apr 18 2012 18"	8.8 ES	PF,PS,OVAL,UB,NND,R=F		
NGC 3790		H109-3	Galaxy S0/a	CF,VS,PME,SBM,1STOF3
May 14 2010 31"	17mmT4	PB,CS,OVAL,UB,FNUC,R=G		
NGC 3801		H161-2	Galaxy S0?	PF,PL,R,BM,R,2ND OF3
May 14 2010 31"	17mmT4	PB,PL,OVAL,MEXT,BNUC,HSB,R=G		
May 13 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 3802		H30-3	Galaxy S	VF,PS,2VB*P,3RD OF3
May 14 2010 31"	17mmT4	PB,PS,EON,UB,DNUC,R=G		
NGC 3803			Galaxy	VF,S,R
May 14 2010 31"	17mmT4	EF,VS,R,NND,AV,R=P		

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NGC 3807			Galaxy	VF, S, R (VF*?)
May 14 2010 31"	17mmT4	DIFF,CF,CS,R,UB,NND,R=F		
NGC 3810		H21-1	Galaxy SA(rs)c	B,L,VLE
Apr 18 2012 18"	8.8 ES	PF,S,OVAL,FNUC,R=G		
Apr 26 2006 8"	11mmT6	PF,L,OVAL,UB,NND,R=F		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 3812		H320-3	Galaxy E	CF,VS,R,1STOF3,*6SF
Apr 28 2006 31"	19mmW	CB,PL,R,FNUC,R=G		
NGC 3814			Galaxy S0	VS,NEBS*,P 3815
Apr 28 2006 31"	19mmW	VF,PS,EL,OVAL,NND,R=F		
NGC 3815		H339-3	Galaxy Sab	CF,S,3RD OF 3
Apr 28 2006 31"	19mmW	CB,PL,OVAL,UB,NND,R=F		
NGC 3816			Galaxy S0	F,S,BM
Apr 28 2006 31"	19mmW	CB,CL,EL,OVAL,UB,NND,R=F		
NGC 3817			Galaxy SB0/a	F,1ST OF 4
May 18 2007 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F		
NGC 3819			Galaxy E?	VF,2ND OF 4
May 18 2007 31"	17mmT4	PF,CS,OVAL,NND,R=F		
NGC 3820			Galaxy S?	EF,VS,3819 S
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
NGC 3839			Galaxy Sdm:	VF,S,R,LBM
May 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 3857			Galaxy S0?	VF,VS,MBM
May 07 2007 31"	17mmT4	PB,PL,EL,OVAL,FNUC,MSB,R=G		
NGC 3859			Galaxy S?	EF,VS,R,LBM,(R)
May 07 2007 31"	17mmT4	PB,PL,EON,UB,NND,R=G		
NGC 3860		H386-3	Galaxy S?	VF,VS,RESOLVABLE
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,FNUC,R=G		
NGC 3861			Galaxy (R')SAB(r)b	F,S,R,BM
May 07 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G		
NGC 3862		H385-3	Galaxy E	VF,VS,R,*17N
May 13 2007 8"	11mmT6	CF,CS,EON,NND,R=F		
May 13 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		

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NGC 3862		H385-3	Galaxy E	VF,VS,R,*17N
May 07 2007 31"	17mmT4	PB,PL,R,FNUC,HISB,R=G		
NGC 3864			Galaxy S?	EF,VS,R
May 07 2007 31"	17mmT4	PF,PS,OVAL,NND,AV,R=F		
NGC 3867			Galaxy S?	F,S,IRRR,MBM,S OF 2
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
NGC 3868			Galaxy S?	VF,VS,R,MBM,N OF 2
May 07 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F		
NGC 3869			Galaxy Sa	F,S,IR,PSBM
May 07 2007 31"	17mmT4	PB,PL,EON,FNUC,HISB,R=G		
NGC 3872		H104-2	Galaxy E5	B,S,R,SMBM*
Apr 18 2012 18"	8.8 ES	PF,PS,OVAL,FNUC,R=F		
May 07 2007 31"	17mmT4	CB,PL,R,BNUC,HISB,R=G		
NGC 3873			Galaxy E	VF,PS,LE,3875 SF
May 07 2007 31"	17mmT4	PB,PL,R,FNUC,MSB,R=G		
NGC 3875		H387-3	Galaxy S0/a	VF,VS,RESOLVABLE
May 07 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G		
NGC 3883		H372-3	Galaxy SA(rs)b	VF,CL
May 07 2007 31"	17mmT4	DIFF,PF,CL,OVAL,NND,R=F		
NGC 3884		H388-3	Galaxy SA(r)0/a	CF,S,IR,GBM,R,*7SP6'
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,FNUC,MSB,R=G		
NGC 3886			Galaxy S0-:	F
May 07 2007 31"	17mmT4	PB,PS,EON,UB,FNUC,R=G		
NGC 3900		H82-1	Galaxy SA(r)0+	B,PL,VLE0,BMN
Mar 29 2006 8"	11mmT6	F,L,OVAL,NND,R=F		
NGC 3902		H321-3	Galaxy SAB(s)bc:	F,PS,LE,VGLBM
May 07 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
NGC 3910			Galaxy S0-:	S,R,MBM,*10,11N50"
May 07 2007 31"	17mmT4	PB,PS,OVAL,DNUC,MSB,R=G		
NGC 3911		H341-3	Galaxy SB?	VF,S,P OF 2
May 07 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,AV,R=F		
NGC 3912		H342-2	Galaxy SAB(s)b? pec	F,PL,R,PGBM

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NGC 3912		H342-2	Galaxy SAB(s)b? pec	F,PL,R,PGBM
Mar 29 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 3919			Galaxy E	F,S,R
May 07 2007 31"	17mmT4	PB,PS,R,BNUC,HISB,R=G		
NGC 3920			Galaxy S?	NEB,F OF 2
May 07 2007 31"	17mmT4	PB,PL,R,UB,NND,R=G		
NGC 3925			Galaxy SAB0/a	VF,VS
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 3926A		H379-3	Galaxy E/S0	EF,ES,VLE,ER,ST NR
May 07 2007 31"	17mmT4	PB,S,R,UB,NND,R=F		
NGC 3926B		H379-3	Galaxy E/S0	EF,ES,VLE,ER,ST NR
May 07 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G		
NGC 3929			Galaxy E?	CL,S,ST F,VC
May 07 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=F		
NGC 3933			Galaxy S?	PF,LE
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 3934			Galaxy S?	EF,R
May 07 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 3937		H389-3	Galaxy S0-:	EF, VS, 3937 F 12S
May 07 2007 31"	17mmT4	PB,PL,OVAL,UB,FNUC,MSB,R=G		
NGC 3940		H380-3	Galaxy E	VF,CS,R
May 07 2007 31"	17mmT4	PB,PL,R,FNUC,HISB,R=G		
NGC 3943			Galaxy S?	PF,PS,E,*8P24S
May 07 2007 31"	17mmT4	PB,PL,R,UB,NND,R=G		
NGC 3987			Galaxy Sb	F,ME
May 07 2007 31"	17mmT4	PB,CL,EON,UB,NND,R=G		
NGC 3993			Galaxy Sb: sp	VF,PS,E,3* NR
May 07 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,HISB,R=G		
NGC 3997			Galaxy SBb pec	PF,VS,E25,BET 2ST
May 07 2007 31"	17mmT4	PB,CL,OVAL,UB,FNUC,HISB,R=G		
NGC 3999			Galaxy S0	VF,S
May 07 2007 31"	17mmT4	DIFF,PF,CS,OVAL,NND,R=F		

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NGC 4000		Galaxy S?	VF,VS,LE,*8F2',05 SF
May 07 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F	
NGC 4002		H344-3 Galaxy S0?	VF,VS,R,N OF 2
May 14 2010 31"	17mmT4	PB,CS,OVAL,MEXT,BNUC,HSB,R=G	
NGC 4004		H354-3 Galaxy Pec	F,VS,R,*12 NEAR
Apr 28 2006 31"	19mmW	CF,CS,EON,UB,NND,R=F	
NGC 4005		Galaxy S?	PF,VS,MBM,*7NP2'
May 07 2007 31"	17mmT4	PB,PL,OVAL,FNUC,MSB,R=G	
NGC 4007		H325-3 Non-Existent	
May 14 2010 31"	17mmT4	PF,PS,OVAL,MEXT,BNUC,HSB,R=G	
NGC 4008		H368-2 Galaxy E5	PB,PS,E,PSBM,*INV N
May 13 2007 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 4011		Galaxy S0	VF,VS,*12NP
May 07 2007 31"	17mmT4	DIFF,CF,CS,OVAL,NND,V,R=F	
PGC 27681		Galaxy Sb	
Mar 30 2014 18"	7mm TV	VF,PS,EON,NND,AV,R=F,PA=130	
PGC 28700		Galaxy Scd:	
May 25 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=55	
PGC 29372		Galaxy Sb	
Apr 07 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F	
PGC 29413		Galaxy SABdm:	
Apr 19 2006 31"	19mmW	PF,PS,OVAL,NND,R=F	
PGC 29488		Galaxy E3	
Apr 29 2011 12"	17mmAT	DIFF,CF,PS,OVAL,UB,NND,R=F	
Apr 19 2006 31"	19mmW	PF,PL,OVAL,NND,R=F	
PGC 29698		Galaxy Scd:	
May 25 2014 18"	8mm Ds	VF,VS,EON,UB,NND,R=F,PA=95	
PGC 29722		Galaxy S	
Apr 15 2007 31"	17mmT4	PB,L,EON,BNUC,HISB,R=G	
PGC 29768		Galaxy S	
Apr 15 2007 31"	17mmT4	PF,S,OVAL,NND,R=F	
PGC 30008		Galaxy S	

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PGC 30008			Galaxy S
Apr 15 2007	31"	17mmT4 B,PS,R,NND,R=F	
PGC 30221			Galaxy Sb
Apr 21 2007	31"	17mmT4 CF,PS,EON,NND,R=F	
PGC 30263			Galaxy S?
Apr 21 2007	31"	17mmT4 PF,CS,OVAL,FNUC,R=F	
PGC 30265			Galaxy
Apr 21 2007	31"	17mmT4 PF,CS,OVAL,FNUC,R=F	
PGC 30326			Galaxy S
Apr 21 2007	31"	17mmT4 CF,PS,R,NND,AV,R=F	
PGC 30328			Galaxy Sab
Apr 21 2007	31"	17mmT4 CF,PS,EON,NND,AV,R=F	
PGC 30378			Galaxy C
Apr 28 2006	31"	19mmW PF,PS,R,NND,AV,R=F	
PGC 30397			Galaxy
Apr 21 2007	31"	17mmT4 F,CS,R,NND,R=F	
PGC 30431			Galaxy
Apr 21 2007	31"	17mmT4 DIFF,PB,PS,R,NND,R=F	
PGC 30432			Galaxy L
Apr 21 2007	31"	17mmT4 DIFF,PB,L,R,NND,R=F	
PGC 30456			Galaxy
Apr 21 2007	31"	17mmT4 PB,CS,OVAL,FNUC,MSB,R=G	
PGC 30464			Galaxy S
Apr 21 2007	31"	17mmT4 VF,CS,EON,NND,AV,R=F	
PGC 30573			Galaxy S
Apr 21 2007	31"	17mmT4 DIFF,PB,CL,R,NND,R=F	
PGC 30585			Galaxy SB?
Apr 21 2007	31"	17mmT4 PB,PS,OVAL,FNUC,MSB,R=G	
PGC 31075			Galaxy Sbc
Apr 19 2006	31"	19mmW PB,PL,EON,UB,BNUC,R=G	
PGC 31526			Galaxy Sc
Apr 21 2007	31"	17mmT4 CF,PS,R,NND,AV,R=F	

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PGC 32418		Galaxy
Apr 07 2008 31"	17mmT4 PF,VS,R,NND,R=F	
PGC 32419		Galaxy
Apr 07 2008 31"	17mmT4 PF,VS,OVAL,NND,AV,R=F	
PGC 32572		Galaxy DB
Apr 07 2008 31"	17mmT4 DIFF,PF,PL,OVAL,NND,LSB,R=F	
PGC 32948		Galaxy
Apr 19 2007 31"	17mmT4 VF,VS,R,NND,AV,R=F	
PGC 33147		Galaxy Sbc
Apr 19 2007 31"	17mmT4 VF,L,EON,NND,AV,R=F	
PGC 33170		Galaxy
Apr 19 2007 31"	17mmT4 PF,PS,R,NND,R=F	
PGC 33213		Galaxy
Apr 19 2007 31"	17mmT4 PF,PS,EL,OVAL,NND,R=F	
PGC 33237		Galaxy S
Apr 19 2007 31"	17mmT4 VF,VS,EL,OVAL,NND,AV,R=F	
PGC 33244		Galaxy SB(s)c:
Apr 19 2007 31"	17mmT4 CF,PS,EON,NND,R=F	
PGC 33273		Galaxy
Apr 19 2007 31"	17mmT4 CF,PS,OVAL,NND,R=F	
PGC 33278		Galaxy Sab
Apr 19 2007 31"	17mmT4 CF,PS,OVAL,NND,AV,R=F	
PGC 33282		Galaxy L
Apr 19 2007 31"	17mmT4 B,VS,OVAL,FNUC,R=F	
PGC 33396		Galaxy Dwarf Spiral
Apr 19 2007 31"	17mmT4 VF,PS,R,NND,AV,R=F	
PGC 33461		Galaxy SAB(r)b:
Apr 19 2007 31"	17mmT4 VF,PS,OVAL,NND,AV,R=F	
PGC 33798		Galaxy E
Apr 19 2007 31"	17mmT4 PF,PL,OVAL,UB,NND,R=F	
PGC 33816		Galaxy
Apr 19 2007 31"	17mmT4 CF,PS,R,NND,AV,R=F	

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PGC 33843			Galaxy
Apr 19 2007 31"	17mmT4	VF,VS,EL,OVAL,NND,R=F	
PGC 34591			Galaxy S0 pec
Apr 15 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	
PGC 34633			Galaxy
Apr 15 2007 31"	17mmT4	VF,VS,OVAL,NND,R=F	
PGC 34881			Galaxy S0?
Apr 26 2008 31"	17mmT4	PB,S,R,UB,NND,R=F	
PGC 34901			Galaxy Star ??
Apr 26 2008 31"	17mmT4	VF,VS,R,NND,AV,R=F	
PGC 34907			Galaxy S?
Apr 26 2008 31"	17mmT4	B,VS,R,UB,R=F	
PGC 35103			Galaxy S
Apr 13 2005 31"	11mmT6	MF,MS,EL,OVAL,NND,AV,R=F	
PGC 35179			Galaxy S
Apr 26 2008 31"	17mmT4	VF,VS,EL,OVAL,NND,R=F	
PGC 35183			Galaxy SB?
Apr 26 2008 31"	17mmT4	VF,VS,EL,,OVAL,NND,R=F	
PGC 35355			Galaxy S?
Apr 26 2008 31"	17mmT4	PF,S,OVAL,UB,NND,R=F	
PGC 35360			Galaxy S0?
Apr 26 2008 31"	17mmT4	PF,VS,EL,OVAL,UB,FNUC,R=G	
PGC 35381			Galaxy S
Apr 26 2008 31"	17mmT4	VF,VS,R,NND,	
PGC 35514			Galaxy
May 14 2010 31"	17mmT4	VF,CS,OVAL,NND,R=F	
PGC 35588			Galaxy S0?
May 14 2010 31"	17mmT4	PB,CS,R,BNUC,HSB,R=G	
PGC 35589			Galaxy S
May 14 2010 31"	17mmT4	PF,PS,OVAL,NND,R=F	
PGC 35977			Galaxy S?
Sep 01 2008 31"	17mmT4	CF,VS,OVAL,NND,R=F	

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PGC 35991			Galaxy Sd
May 25 2014 18"	8mm Ds	VF,FS,EON,UB,NND,AV1,R=P,PA=130	
PGC 36189			Galaxy S
May 14 2010 31"	17mmT4	VF,VS,EON,UB,,NND,AV,R=F	
PGC 36431			Galaxy Sb
May 25 2014 18"	8mm Ds	VF,VS,EON,UB,NND,AV2,R=F,PA=60	
PGC 36550			Galaxy S
May 07 2007 31"	17mmT4	PF,CS,R,UB,NND,R=F	
PGC 36565			Galaxy
May 07 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F	
PGC 36566			Galaxy
May 07 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F	
PGC 36575			Galaxy
May 07 2007 31"	17mmT4	PF,PS,RL,OVAL,NND,R=F	
PGC 36586			Galaxy
May 07 2007 31"	17mmT4	DIFF,PF,PS,EL,OVAL,NND,R=F	
PGC 36589			Galaxy S?
May 07 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
PGC 36619			Galaxy E
May 07 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
PGC 36622			Galaxy
May 07 2007 31"	17mmT4	VF,PS,R,NND,R=F	
PGC 36759			Galaxy S?
Apr 18 2012 18"	8.8 ES	VF,VS,OVAL,NND,AV2,R=F	
PGC 37018			Galaxy S R
May 07 2007 31"	17mmT4	VF,PS,R,NND,AV,R=F	
PGC 37039			Galaxy
May 07 2007 31"	17mmT4	PF,VS,OVAL,UB,NND,R=F	
PGC 37040			Galaxy S
May 07 2007 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
PGC 37096			Galaxy E
May 07 2007 31"	17mmT4	CF,PS,OVAL,NND,R=F	

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PGC 37175

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

Galaxy S?

PGC 37192

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

Galaxy S

Lepus - The Hare

IC 418		Planetary Neb 4	
Dec 28 2008 31"	17mmT4	VB,VS,R,R=G, CENTRAL STAR	
MAC 0511-1505		Galaxy	
Feb 20 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
NGC 1730		Galaxy SB(r)a	F,PS,LE,BET2F*
Nov 22 2006 8"	11mmT6	PF,S,OVAL,NND,R=F	
NGC 1738		Galaxy SB(s)bc pec:	VF,S,E45
Nov 22 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 1744		Galaxy SB(s)d	F,VL,VME,VGVLBM
Nov 22 2006 8"	11mmT6	DIFF,F,PL,OVAL,NND,R=F	
NGC 1784		Galaxy SB(r)c	PB,PL,VLE,VGBM,AM ST
Nov 22 2006 8"	11mmT6	PF,L,OVAL,NND,AV,R=F	
NGC 1821		Galaxy IB(s)m	VF,VS,LE
Feb 20 2006 31"	17mmT4	MB,MS,OVAL,FNUC,R=G	
NGC 1832		H292-2 Galaxy SB(r)bc	PB,IR,MBM,C*NF1'
Nov 22 2006 8"	11mmT6	VF,PL,OVAL,NND,AV,R=F	
NGC 1888		H289-2 Galaxy SB(s)c pec	PB,PL,R,R
Nov 22 2006 8"	11mmT6	PF,S,EL,OVAL,R=F	
NGC 1904	M79	Globular	GCL,PL,ERI,EC,RRR
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 26 2006 8"	19mmW	B,PS,,TIGHT,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	
NGC 1954		H590-3 Galaxy SA(rs)bc pec:	VF,S,R,SMBM
Nov 22 2006 8"	11mmT6	PF,S,OVAL,NND,AV,R=F	
NGC 1964		H21-4 Galaxy SAB(s)b	F,VS,R,VSVMBM,3*INV
Dec 04 2004 8"	11mmT6	MB,EL,FNUC,MSB,R=G	
NGC 1979		Galaxy SA0:	VF,VS,STELLAR
Nov 22 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
NGC 2073		Galaxy SA(rs)0-:	EF,VS,R,GBM
Nov 22 2006 8"	11mmT6	VF,VS,R,NND,AV,R=F	

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

Libra - The Balance

IC 4501			Galaxy SB(s)dm	
Jul 06 2010	12"	7.5mmW	VF,VS,OVAL,UB,NND,R=F	
NGC 5595			H121-3	Galaxy SAB(rs)c
May 28 2006	31"	19mmW	PF,PS,OVA,NND,R=F	F,PL,R,VGBM,P OF 2
NGC 5597			H122-3	Galaxy SAB(s)cd
May 28 2006	31"	19mmW	F,S,OVA,NND,R=F	VF,L,VLE,VGLBM,F OF2
NGC 5605			H120-3	Galaxy (R')SAB(rs)c p:
May 28 2006	31"	19mmW	CF,PS,OVAL,NND,R=F	VF,PL,R,VGBM
NGC 5663				Galaxy SA0-:
May 28 2006	31"	19mmW	CF,CS,R,NND,R=F	EF,VS,R,GLBM
NGC 5664				Galaxy Sa
Apr 14 2016	12"	11mmT6	VF,PS,OVAL,UB,NND,R=G	PF,S,E,GBM
May 28 2006	31"	19mmW	PF,PS,OVAL,NND,R=F	
NGC 5716			H671-3	Galaxy SB(rs)c?
May 28 2006	31"	19mmW	CF,PS,OVAL,NND,R=F	VF,PL,R
NGC 5726				Galaxy S0- pec sp
May 28 2006	31"	19mmW	CF,CS,OVAL,NND,R=F	F,S,R,GBM,*10.5NP3'
NGC 5728			H184-1	Galaxy SAB(r)a:
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	PF,PL,PME45,MBM,*10S
NGC 5729			H508-3	Galaxy Sb pec:
May 28 2006	31"	19mmW	PF,PS,EON,NND,R=F	F,PL,E,R
NGC 5734				Galaxy S0^ pec sp
May 28 2006	31"	19mmW	F,CS,OVAL,NND,R=F	VF,S,LE,GLBM
NGC 5741				Galaxy E
May 28 2006	31"	19mmW	PF,S,R,NND,R=F	VF,VS,R,SBMN
NGC 5742				Galaxy SB(r)0^?
May 28 2006	31"	19mmW	PF,S,EON,NND,R=F	F,PS,PME,GBMN
NGC 5743				Galaxy Sb:
May 28 2006	31"	19mmW	CF,CS,OVAL,NND,R=F	F,S,ME,SMBMN
NGC 5744				Galaxy (R')SB(rs)d:
May 29 2006	31"	19mmW	PF,CS,R,NND,R=F	EF,VS,(NEB)
NGC 5745				Galaxy Sa pec sp
				VF,S,E,PSLBM

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

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

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

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

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

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

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

Lynx - The Lynx

PGC 22533 **Galaxy S0/a**

Nov 10 2012 18" 7mm TV PF,VS,EON,UB,NND,R=F,PA=50

PGC 22890 **Galaxy Sab**

Nov 10 2012 18" 7mm TV VF,VS,EON,UB,NND,R=F,PA=40

PGC 22891 **Galaxy E/S0**

Nov 10 2012 18" 7mm TV VF,VS,R,UB,NND,R=F

PGC 22906 **Galaxy E**

Nov 10 2012 18" 7mm TV VF,VS,OVAL,UB,AV1,R=F

PGC 22914 **Galaxy S?**

Nov 10 2012 18" 7mm TV VF,VS,R,UB,NND,AV,R=F

Lyra - The Harp

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

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NGC 6675		Galaxy Sbc	VF,E,45"
Aug 16 2009 31"	17mmT4	DIFF,PF,PS,OVAL,UB,NND,R=F	
NGC 6685		Galaxy S0-:	EEF,VS,R,VDIFFI,SP-2
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,FNUC,R=G	
NGC 6686		Galaxy C	EEF,ES,R,VDIFFI,NF-2
Aug 16 2009 31"	17mmT4	CF,CS,R,UB,NND,R=F	
NGC 6688		Galaxy SA0+	F,PS,R,BM
Aug 16 2009 31"	17mmT4	PF,PS,R,BNUC,HISB,R=G	
NGC 6692		Galaxy E/S0	VF,VS,IRRE,SEVVF*INV
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F	
NGC 6695		Galaxy SBb	VF,S,IRRE,NS,VLBM
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 6700		Galaxy SB(rs)c	EF,LE,DIF,IR
Aug 16 2009 31"	17mmT4	PF,PS,R,UB,NND,R=F	
NGC 6702		Galaxy E:	PF,S,LE
Jun 30 2008 16"	17mmT4	PF,PS,R,NND,R=F	
NGC 6703		Galaxy SA0-	B,S,R,MBM
May 18 2014 18"	8mm Ds	F,PS,R,FNUC,R=G,SOME SPIRAL STRUCTURE NOTED.	
Jun 30 2008 16"	17mmT4	B,PS,OVAL,NND,R=F	
NGC 6710		Galaxy SA0+?	VF,S,R,BM
Jun 30 2008 16"	17mmT4	PF,PS,OVAL,ND,R=F	
NGC 6713		Galaxy Pec	VF,S,R,BM
Aug 16 2009 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 6720	M57	Planetary Neb 4+3	RINGNEB,B,PL,CE,LYRA
Jul 02 2017 12"	17mmT4	SURPRISINGLY NOT TOO BAD	
Jul 05 2016 12"	8mm Et	SUPER	
Jun 17 2016 12"	8mm Ds	SURPRISINGLY NICE IN THE MOONLIGHT	
Aug 21 2015 12"	8mm Ds	LP2 FILTER	
Jul 15 2015 12"	8mm Ds		
May 23 2015 12"	11mmT6	EYE CANDY	
May 18 2014 18"	8mm Ds	EYE CANDY.	
Jul 13 2013 18"	7mm TV	EYE CANDY	
Oct 21 2012 8"	25mmPL	ANOTHER SURPRISE AT HOME,ROUND AND DISTINCT	
May 23 2012 18"	17mmAT	EYE CANDY	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	

Lyra - The Harp

NGC 6720	M57	Planetary Neb 4+3	RINGNEB,B,PL,CE,LYRA
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Jun 30 2008 16"	17mmT4	PB,PL,R,NO CENTRAL STAR,R=G	
Oct 08 2006 1.9"	12x50	PB,S,R=G	
Mar 27 2006 8"	19mmW	B,L,R, R=G	
Aug 14 2004 8"	11mmT6	F/L W/NEW FOCUSER, NAGLER, DOBSON	
Dec 26 2003 8"	25mmPL	Q/M COLD	
Oct 10 2003 8"	25mmPL	FIRST LIGHT - FIRST OBJECT	
NGC 6740		Galaxy S	EEF,S
Aug 16 2009 31"	17mmT4	CF,CS,R,UB,NND,R=F	
NGC 6745		Galaxy Sm	VF,LE NS
Sep 01 2011 31"	17mmT4	PF,PS,OVAL,PEXT,FNUC,R=G,PA=100	
Aug 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 6765		Planetary Neb 5	F,S,E
Jun 30 2008 16"	11mmT6	VF,PS,R,NO CENTRAL STAR,R=F	
NGC 6779	M56	Globular	GCL,B,L,IR,GVMCM,RRR
Jul 19 2017 12"	11mmT6	F,S,R=G	
Jun 17 2016 12"	8mm Ds	VERY NICE	
Oct 24 2012 8"	11mmT6	STILL NICE. LIKE THOSE GLOBS.	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Jun 30 2008 16"	17mmT4	PB,PL,R=G	
Oct 08 2006 1.9"	12x50	F,S,R=F	
Mar 27 2006 8"	19mmW	F,PS,R,R=F,LOOSELY PACKED	
Dec 26 2003 8"	25mmPL	Q/M COLD	
NGC 6791		Open Cluster 15.0 I 2 r	VF
Aug 16 2009 31"	17mmT4	PB,PL,R=G,TIGHT GROUP	
NGC 6792		Galaxy SBb	F,E26,GLBM,*9.5SF
Aug 16 2009 31"	17mmT4	PF,PS,EL,OVAL,UB,FNUC,R=G	
PGC 61919		Galaxy S	
Aug 16 2009 31"	17mmT4	VF,VS,OVAL,UB,AV,R=F	
PGC 61939		Galaxy	
Aug 16 2009 31"	17mmT4	VF,VS,R,NND,R=F	
PGC 61966		Galaxy SBa	
Aug 16 2009 31"	17mmT4	PF,CS,OVAL,UB,NND,R=F	

Lyra - The Harp

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

Monoceros - The Unicorn

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

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

Monoceros - The Unicorn

NGC 2323	M50		Open Cluster 9.0 II 3 r	CL,VL,RI,PC,E,
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007 1.9"	12x50	B,PL,RICH PATCH, RESOLVE 7+ STARS		
Mar 19 2006 8"	25mmPL	B,ML,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 09 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
NGC 2324		H38-7	Open Cluster 12.0 II 2 r	CL,L,RI,CC,ST12...16
Nov 25 2006 8"	11mmT6	F,SMALL-COMPRESSED,R=G		
NGC 2335		H32-8	Open Cluster 10.0 III 2 m n	CL,L,LC
Mar 29 2006 8"	19mmW	F,PS,R=F		
NGC 2343		H33-8	Open Cluster 8.0 II 2 p n	CL,CL,P,LC
Mar 29 2006 8"	19mmW	F,PS,R=F		
NGC 2346		H65-4	Planetary Neb 3b+4	*10AFF W/ S,VF,NEB
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
Apr 09 2008 8"	11mmT6	PF,PS,NO CENTRAL STAR,R=F		
NGC 2353		H34-8	Open Cluster 9.0 III 3 p	CL,L,LC,ONEVB*
Mar 29 2006 8"	19mmW	SMALLER, BRIGHTER,L,R=G		
NGC 2368			Open Cluster IV 1 p	CL,S,PRI,ST15
Nov 25 2006 8"	11mmT6	F,S,LOOSER,R=F		
Nov 25 2006 8"	11mmT6	F,S,LOOSER,R=F		
NGC 2506		H37-6	Open Cluster 11.0 I 2 r	CL,PL,VRI,C,*11...20
Mar 29 2006 8"	19mmW	PF,PS,R=F, NICE GROUP		
PGC 20274			Galaxy IAB(s)m	
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=G		

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CR 331			Open Cluster II 1m	
Jul 31 2005	8"	11mmT6	MF,FS,OVAL SHAPE, R=F, LOOSE GROUPING	
CR 350			Open Cluster IV1p	
Jul 21 2007	1.9"	12x50	PB,VL,NICE CLUSTER,R=G	
Jul 03 2005	8"	19mmW	VB,ML,R=F, LOOSE GROUPING	
HP 1			Globular	
Jul 23 2016	12"	8mm Et	VF,VS,R=P.	
Jul 13 2007	8"	7.5mmW	VF,VS,R,PATCHY,R=F	
IC 1257			Globular	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
IC 4604			Nebula R	
Jul 21 2007	1.9"	12x50	PF,PS,AV,JUST DETECTED,R=F	
IC 4634			Planetary Neb 2a+3	
Jul 31 2005	8"	7.5mmW	VVF,VS,AV,R=F	
IC 4665			Open Cluster 6.0 III 2 m	
Jun 17 2016	12"	8mm Ds	WIDE/OPEN CLUSTER	
Oct 08 2006	1.9"	12x50	B,PL,R=G, LOOSE GROUPING	
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 6171		M107	H40-6	Globular
Jul 02 2017	12"	17mmT4	OK	GCL,L,VRI,VMC,R,RRR
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006	1.9"	12x50	VF,PS,AV,R=F	
Mar 27 2006	8"	19mmW	F,L,R=F, DENSE	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6218		M12		Globular
Jul 08 2018	12"	17mmT4	B,S,R=E	GCL,VB,VL,IR,GMBM
Jul 02 2017	12"	17mmT4	NOT AS BRIGHT AS M 10.	
Jul 15 2015	12"	17mmT4		
May 23 2012	18"	17mmAT	GLOBULAR CLUSTER EYE CANDY	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 12 2006	1.9"	12x50	PF,S,R,R=F	
Mar 27 2006	8"	19mmW	B,L,R=G,LOOSELY PACKED	
May 04 2005	8"	11mmT6	MB,ML,R=E	

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NGC 6218	M12	Globular	GCL,VB,VL,IR,GMBM
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL	
NGC 6235	H584-2	Globular	PB,CL,IR,RRR,*14..16
Jul 15 2006 8"	19mmW	CF,PS,R-F,LITTLE BRIGHTER, DIM STARS	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6240		Galaxy I0: pec	VF,PL,LE,DIF
Jul 03 2005 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 6254	M10	Globular	GCL,B,VL,R,GVMBM,RRR
Jul 08 2018 12"	17mmT4	B,S,R=E	
Jul 02 2017 12"	17mmT4	NOT TOO BAD.	
Aug 21 2015 12"	17mmT4		
Jul 15 2015 12"	17mmT4		
May 23 2012 18"	17mmAT	GLOBULAR CLUSTER EYE CANDY	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 12 2006 1.9"	12x50	PF,S,R,R=F	
Jul 16 2006 8"	19mmW	PB,PL,R=G, OUTER STARS RESOLVED.	
Mar 27 2006 8"	19mmW	B,L,R=G, LOOSELY PACKED	
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL	
NGC 6266	M62	Globular	GCL,VB,L,GMBM,RRR,
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	B,S,R=F	
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP	
Aug 14 2004 8"	11mmT6		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL	
NGC 6273	M19	Globular	GCL,VB,L,R,VCM,RRR
Jul 08 2018 12"	17mmT4	B,S,R=E	
Jul 02 2017 12"	17mmT4	SMUDGE. CANNOT RESOLVE ANY STARS	
May 30 2016 12"	8mm Ds	F,S,R=F. LOW ON HORIZON	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	F,S,R=F	
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP	
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL	

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NGC 6284		H11-6	Globular	GCL,B,L,R,CM,ST16...
Jul 02 2017	12"	17mmT4	PF,PS,R=F. SMUDGE	
May 30 2016	12"	8mm Ds	VF,PS,R=F	
Jul 15 2006	8"	19mmW	PF,PS,R=F	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6287		H195-2	Globular	GCL,CB,L,R,GPMCM,RRR
May 30 2016	12"	8mm Ds	VF,PS,R=F	
Jul 15 2015	12"	8mm Ds		
Jul 15 2006	8"	19mmW	CF,PS,R=F, DIM SMUDGE, NO STARS	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6293		H12-6	Globular	GCL,VB,L,R,PSBM,ST16
Jul 01 2016	12"	7mm TV	F,S,R=F,RESOLVE OUTER STARS	
Jul 15 2015	12"	8mm Ds		
Jul 15 2006	8"	19mmW	PF,PS,R=F,FAINT STARS	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6304		H147-1	Globular	GCL,B,CL,R,LBM,RRR
Jul 01 2016	12"	7mm TV	F,S,R=F,RESOLVE OUTER STARS	
Jul 15 2006	8"	19mmW	CF,PS,R=F,TIGHT SMUDGE, NO STARS	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6309			Planetary Neb 3b+6	B,S,BET2*VNR
Jul 03 2005	8"	11mmT6	MF,MS,PATCHY,R=F	
NGC 6316		H45-1	Globular	GCL,CB,PS,R,GVMBM
Jul 01 2016	12"	7mm TV	F,PS,R=F	
Jul 15 2006	8"	19mmW	F,PS,R=F,LOOSE SMUDGE, NO STARS	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6325			Globular	PF,L,R,RR
Jul 01 2016	12"	7mm TV	VF,PS,R=F	
May 19 2010	12"	9mm	VF,VS,AV,R=F, FAINT SMUDGE, NO STARTS TO RESOLVE.	
Jul 31 2005	8"	7.5mmW	VF,VS,R,LOWSB,AV,R=F	
NGC 6333		M9	Globular	GCL,B,L,R,ECM,RRR,
Jul 08 2018	12"	17mmT4	B,L,MR=E	
Jul 01 2016	12"	7mm TV	F,S,R=G,RESOLVED OUTER STARS	
Jul 15 2015	12"	17mmT4		
Mar 16 2012	18"	17mmAT	2012 M.M.	
Jul 04 2011	12"	11mmT6	FINE OBJECT	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006	1.9"	12x50	PF,PS,R=F	
Mar 27 2006	8"	19mmW	F,VL,R,R=F,	

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NGC 6333	M9	Globular	GCL,B,L,R,ECM,RRR,
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6342	H149-1	Globular	CB,PS,LE,ER
Jul 01 2016 12"	7mm TV	PF,PS,R=F	
Jul 15 2006 8"	19mmW	VF,PS,R=F, DIM, UNRESOLVED.	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6355	H46-1	Globular	CF,L,R,GBM,RRR
Jul 23 2016 12"	8mm Et	PF,PS,R=F. DID NOT RESOLVE.	
Jul 15 2006 8"	19mmW	EF,S,AV,R=F	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6356	H48-1	Globular	GCL,VB,CL,VGVMBM,RRR
Jul 23 2016 12"	8mm Et	F,S,R=F. DID NOT RESOLVE	
Jul 21 2007 1.9"	12x50	PF,S,PATCH,R=F	
Jul 15 2006 8"	19mmW	PB,PS,R=G, DIM STARS	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6366		Globular	F,L,VLBM
Jul 23 2016 12"	8mm Et	VF,L,R=P. DID NOT RESOLVE.	
Jul 21 2007 1.9"	12x50	PF,PS,AV,R=F	
Aug 16 2006 1.9"	12x50	PF,PS,R=F	
Jul 15 2006 8"	19mmW	EF,PS,AV,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6368		Galaxy Sb	F,S,E
Jul 03 2005 8"	11mmT6	VF,VS,EON,NND,AV,R=F	
NGC 6369	H11-4	Planetary Neb 4+2	RINGNEB,PB,S,R
Jul 07 2018 12"	8mm Et	PF,S,R=G. OIII FILTER	
Jul 09 2005 8"	11mmT6	MB,MS,R,R=G	
NGC 6384		Galaxy SAB(r)bc	PB,S,VLE
Jul 03 2005 8"	11mmT6	VF,ML,OVAL,NND,AV,R=F	
NGC 6401	H44-1	Globular	PB,PL,R,*12F INV
Jul 15 2006 8"	19mmW	EF,CS,R=F,VERY DIM SMUDGE	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6402	M14	Globular	GCL,B,VL,R,ERI,VGMBM
Jul 15 2015 12"	17mmT4		
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	PF,PS,RF,BRIGHTER THAN 6366	

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NGC 6402	M14	Globular	GCL,B,VL,R,ERI,VGMBM
Mar 27 2006 8"	19mmW	F,L,R=F,TIGHT SMUDGE	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6426	H587-2	Globular	VF,CL,E,VLBM
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jul 09 2005 8"	11mmT6	VF,VS,R=F	
NGC 6509		Galaxy Sd	VF,PL,IRRR,LBM
Jul 31 2005 8"	11mmT6	VF,VS,OVAL,NND,R=F	
NGC 6517	H199-2	Globular	PB,PL,R,RR
Jul 09 2005 8"	11mmT6	MF,ML,R=F	
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F	
NGC 6570		Galaxy SB(rs)m:	PF,PL,R
Jul 31 2005 8"	11mmT6	MB,VS,EL,FNUC,MSB,R=F	
NGC 6572		Planetary Neb 2a	PLN,VB,VS,R,LHAZY
Jul 07 2018 12"	8mm Et	PB,PS,R=E. OIII FILTER	
Jul 23 2006 8"	7.5mmW	CB,CS,R,R=G	
Jul 31 2005 8"	11mmT6	VB,VS,R,R=F	
NGC 6633	H72-8	Open Cluster 8.0 III 2 m	CL,LC,ST L
Jul 02 2017 12"	17mmT4	LOOSE CLUMP	
Oct 08 2006 1.9"	12x50	N.F.:R=G, DENSER GROUP	
Jul 15 2006 8"	32mmUV	VB,VL,LOOSE CLUSTER	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
PAL 6		Globular	
Jul 13 2007 8"	7.5mmW	VF,VS,R,PATCHY,AV,R=F	
PGC 60346		Galaxy SB(rs)c	
Jul 31 2011 12"	5mm TV	F,CS,MR,UB,NND,AV2,R=P	
Jul 03 2005 8"	11mmT6	MB,MS,R,FNUC,R=G	
PGC 61214		Galaxy Sd:	
Jul 31 2011 12"	5mm TV	VF,CS,OVAL,MEXT,UB,NND,AV1,R=F	
PGC 61300		Galaxy Scd:	
Jul 31 2011 12"	5mm TV	F,CS,EON,UB,NND,R=F	

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

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NGC 1662		H1-7	Open Cluster 9.0 II 3 m	CL OF L\$S SC ST
Nov 04 2007 1.9"	12x50	B,S,STARS 12+,R=F		
NGC 1663		H7-8	Open Cluster IV 2 p c	CL,LRI,ST L\$S
Apr 09 2008 8"	11mmT6	PF,PS,R=F		
NGC 1682		H527-2	Galaxy E/S0	VF,VS,1684F12S,*9S4'
Dec 04 2004 8"	11mmT6	VF,R,NND,AV,R=F		
NGC 1683			Galaxy Sa	VF,R
Feb 03 2005 31"	11mmT6	DIFF,MB,MS,EL,OVAL,NND,R=G		
NGC 1684		H528-2	Galaxy E+ pec:	PF,PS,R,BM,*9SF
Dec 15 2004 8"	11mmT6	VF,OVAL,NND,AV,R=F		
Dec 04 2004 8"	11mmT6	VF,OVAL,NND,AV,R=G		
Nov 06 2004 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
NGC 1691			Galaxy (R)SB(s)0/a:	F,S,*11INV
Feb 03 2005 31"	11mmT6	VF,MS,OVAL,NND,R=F		
NGC 1729		H503-3	Galaxy SA(s)c	VF,PL,2B*V NR
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 1762		H453-3	Galaxy SA(rs)c:	VF,VS
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,NND,USB,R=F		
NGC 1788		H32-5	Nebula R	B,CL,R,BM,***15,*1'F
Nov 21 2006 8"	11mmT6	F,S,S,R=F, BRIGHTER THAN SOME.		
NGC 1843			Galaxy SAB(s)cd:	F,S,R,LBM
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 1924		H447-3	Galaxy SB(r)bc	VF,PL,IR,ST NR
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 1975			Nebula E	B**INV IN NEB
Nov 21 2006 8"	11mmT6	B,L,R=G, STARS GLOW		
Feb 20 2006 31"	31mmT5	MB,ML,R=G, OIII		
NGC 1976	M42		Nebula EN+RN	THETAORI \$GREAT NEB
Apr 20 2018 12"	11mmT6			
Jan 25 2018 12"	11mmT6	NICE OBJECT		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Feb 17 2012 18"	17mmAT	FIRST OBJECT WITH 18" F/4.5 ASTROSYSTEMS		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUV			

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NGC 1976	M42	Nebula EN+RN	THETAORI \$GREAT NEB
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Dec 28 2008 31"	17mmT4	VB,VL,R=E, TRAP=6 STARS	
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS	
Sep 08 2006 1.9"	12x50	DFF,MB,PL PATCH OF NEB.,R=G	
Apr 17 2006 8"	19mmW	PB,PL,HISB,R=E	
Mar 19 2006 8"	19mmW	PB,PL,R=E	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	
NGC 1977		H30-5	Open Cluster
Feb 20 2006 31"	31mmT5	B,R=F, STARS LIGHT UP B.N., OIII	42ORIONIS\$NEB
NGC 1980		H31-5	Nebula III 3 m n
Mar 29 2006 8"	19mmW	PB,L,R=F	VF,VVL,44ORIONIS INV
NGC 1981			Open Cluster 10.0 III 3 p n
Nov 04 2007 1.9"	12x50	PB,L,STARS 10+,R=F	CL,VB,LRI,ST L,SC
Apr 17 2006 8"	19mmW	PB,L,R=F, SCATTERED STARS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 1982	M43	H1-3	Nebula E
Jan 25 2018 12"	11mmT6	NICE OBJECT	VB,VL,RW/TAIL,MBM*8
Mar 16 2012 18"	17mmAT	2012 M.M.	
Feb 17 2012 18"	17mmT4	SECOND OBJECT	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Dec 16 2009 12"	20mmUV		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS	
Sep 08 2006 1.9"	12x50	DFF,B,LPATCH OF NEB.,R=G	
Mar 19 2006 8"	19mmW	PB,PL,R=E	
Mar 06 2005 8"	11mmT6	VB,VL,VHISB,R=E!!!, OIII FILTER	
Feb 03 2005 31"	11mmT6	480X+,TRAPEZIUM!!!!	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Dec 26 2003 8"	25mmPL	Q/M COLD	
NGC 1990		H34-5	Nebula E+R
Mar 28 2011 12"	17mmAT	PF,PS,R=F,OIII FILTER, SOME NEBULOSITY?	EL,E,EPSILONORI INVP
NGC 1999		H33-4	Nebula E
Feb 20 2006 31"	31mmT5	MB.ML,R=F, OIII	*10,11INV IN NEB
NGC 2022		H34-4	Planetary Neb 4+2
Dec 28 2008 31"	17mmT4	F,PS,OVAL,R=G, NO CENTRAL STAR	PLN,PB,VS,VLE
Nov 22 2006 8"	11mmT6	PF,S,R=F	

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NGC 2022		H34-4	Planetary Neb 4+2	PLN,PB,VS,VLE
Mar 09 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
NGC 2023		H24-4	Nebula R+E	B*IN M OF L,LE NEB
Jan 24 2009 31"	17mmT4	PF,PS, HINT OF NEBULOSITY,R=F		
Nov 21 2006 8"	11mmT6	PF,S,R=F		
NGC 2024		H28-5	Nebula E	IRR,B,VVL,BLACKSPINC
Nov 22 2006 8"	11mmT6	B,L,R=G,STARSGLOW,IRREGULARSHAPE		
NGC 2045			Non-Existent	*8,9W/ F NEB
Mar 20 2007 8"	11mmT6	SINGLE STAR,R=P		
NGC 2068	M78		Nebula R	B,L,WISP,GMBN,3*INV
Mar 16 2012 18"	17mmAT	2012 M.M.		
Feb 17 2012 18"	17mmT4	OBSERVED WITH 18" ASTROSYSTEMS		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUV			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 17 2007 1.9"	12x50	M.M. BETWEEN CLOUDS		
Oct 29 2006 1.9"	12x50	F,S,R=F		
Mar 19 2006 8"	19mmW	B,L,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 2071		H36-4	Nebula R	D*10\$14 W/VF,L CHEV
Nov 21 2006 8"	11mmT6	PF,PS,R=F		
NGC 2112		H24-7	Open Cluster 10.0 II 2 m n	CL,PL,LRI,PC,ST S
Nov 21 2006 8"	11mmT6	F,S,LOOSER,R=F		
NGC 2141			Open Cluster 15.0 I 2 r	F,PS,DIF,
Nov 21 2006 8"	11mmT6	F,S,LOOSER,R=F		
NGC 2169		H24-8	Open Cluster 6.9 III 3 m	CL,S,LRI,PMC,**
Nov 04 2007 1.9"	12x50	PF,S,R=F		
Apr 17 2006 8"	19mmW	B,S,R=F		
Nov 06 2004 8"	11mmT6	NICE SHAPE		
NGC 2186		H25-7	Open Cluster 12.0 II 2 m	CL,PL,PRI,PC,ST L\$S
Mar 29 2006 8"	11mmT6	F,S,R=F		
NGC 2194		H5-6	Open Cluster 13.0 II 2 r	CL,L,RI,GVMCM
Mar 29 2006 8"	11mmT6	F,S,R=F		
PGC 16012			Galaxy Sd	

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PGC 16012 **Galaxy Sd**
Feb 03 2005 31" 11mmT6 VF,MS,OVAL,NND,AV,R=F

PGC 16017 **Galaxy Sa**
Feb 03 2005 31" 11mmT6 MB,MS,EL,EON,FNUC,R=G

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

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

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

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MAC 2301+1842 Galaxy

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

MAC 2301+1852 Galaxy

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

MAC 2307+2813 Galaxy

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

MAC 2307+3356 Galaxy

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

MAC 2315+2540 Galaxy

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

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

MAC 2316+2537 Galaxy

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

MAC 2319+0930 Galaxy

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

MAC 2320+2712 Galaxy

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

MAC 2320+2714 Galaxy

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

MAC 2321+0815 Galaxy

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

MAC 2321+2551 Galaxy

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

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

MAC 2323+1649 Galaxy

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

MAC 2323+1654 Galaxy

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

MAC 2323+1656 Galaxy

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

MAC 2324+0929A Galaxy

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

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MAC 2324+0931 Galaxy

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

MAC 2324+0932 Galaxy

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

MAC 2324+1357 Galaxy

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

MAC 2324+1357A Galaxy

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

MAC 2324+1358 Galaxy

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

MAC 2324+1359A Galaxy

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

MAC 2324+1430C Galaxy

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

MAC 2324+1437A Galaxy

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

MAC 2324+1438A Galaxy

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

MAC 2324+1438B Galaxy

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

MAC 2324+1439B Galaxy

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

MAC 2324+1440B Galaxy

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

MAC 2324+1440C Galaxy

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

MAC 2324+1647 Galaxy

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

MAC 2340+2710A Galaxy

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

MAC 2345+2728 Galaxy

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

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

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NGC 7053		Galaxy S?	PB,S,VLE
Sep 01 2011 12"	17mmT4	PF,PS,R,FNUC,R=G	
Oct 07 2010 12"	7mm TV	VF,VS,OVAL,UB,NND,R=F,PA=80	
NGC 7056		Galaxy SBb	PF,S,R
Oct 18 2009 12"	11mmT6	VF,VS,R,UB,NND,AV,R=F	
NGC 7066		Galaxy S?	EEF,CLOSE SF OF 3F*
Sep 13 2007 31"	17mmT4	PB,PS,R,BNUC,HISB,R=G	
NGC 7068		Galaxy Sc	VF,CLOSE TO A S*
Sep 27 2013 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
NGC 7074		Galaxy C	VF,S,E
Sep 27 2013 18"	7mm TV	VF,VS,EON,UB,NND,R=F	
NGC 7078	M15	Globular	GCL,VB,VL,IR,VSMBM
Jul 08 2018 12"	17mmT4	PB,L,R=E	
Sep 02 2016 12"	17mmT4	NICE. 1ST OBJECT FOR THE NIGHT	
Aug 07 2016 12"	8mm Et	FAINT,SMALL,R=E. FIRST OBJECT IN PEGASUS THIS YEAR.	
Aug 21 2015 12"	17mmT4		
Aug 15 2015 12"	11mmT6		
Jul 15 2015 12"	17mmT4		
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jul 13 2013 18"	7mm TV	MORE EYE CANDY	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Sep 13 2009 12"	32mmUV	5TH OBJECT	
Oct 29 2008 16"	32mmUV	NICE, BRIGHT, CAN'T RESOLVE INDIVIDUAL STARS	
Oct 21 2006 31"	20mmUV	VB,VL,STELLAR,RESOLVABLE, F.L. 2, 20MM	
Aug 20 2006 1.9"	12x50	B,S,R=F	
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP	
Oct 31 2004 1.9"	12x50	R=G	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
Dec 28 2003 8"	25mmPL	Q/M COLD	
NGC 7094		Planetary Neb 4	*IN EEF NEBY,VDIFFIC
Sep 05 2010 28"	26mm	PF,PS,R,R=F,OII, NO CENTRAL STAR NOTED	
Aug 29 2010 12"	7mm TV	VF,CS,AV,R=F. NO CENTRAL STAR NOTED.	
NGC 7102		Galaxy SB(rs)b?	F,PL,R
Jul 27 2009 16"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
NGC 7137		H261-2	Galaxy SAB(rs)c
Sep 24 2016 12"	8mm Et	PF,S,OVAL,UB,NND,R=F	F,PS,R,VGLBM,R
Oct 06 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F	

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NGC 7148			Galaxy C	VF,VS,R
Sep 25 2006	31"	19mmW	PF,PS,R,NND,R=F	
NGC 7149			Galaxy E	VF,VS,R
Sep 25 2006	31"	19mmW	FB,L,EL,OVAL,NND,R=G	
NGC 7156		H452-3	Galaxy SAB(rs)cd:	F,PL,R,BM,R
Jul 27 2009	16"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
NGC 7177		H247-2	Galaxy SAB(r)b	PB,PS,R,BMN,R,*SP
Sep 24 2016	12"	8mm Et	PF,PS,OVAL,UB,NND,R=G	
Sep 01 2011	31"	17mmT4	PB,PS,OVAL,PEXT,BNUC,R=G	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
NGC 7194			Galaxy E	VF,VS,R,LBM
Aug 17 2012	18"	7mm TV	F,S,OVAL,UB,NND,R=F	
NGC 7206			Galaxy S0:	F,S,LE,BM
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,FNUC,R=F	
NGC 7207			Galaxy	VF,S
Oct 23 2008	31"	17mmT4	CF,S,EL,OVAL,UB,NND,R=F	
NGC 7212			Galaxy S?	EF,VS,LE
Sep 14 2012	36"	17mmT4	PF,PS,OVAL,FNUC,R=F	
Oct 23 2008	31"	17mmT4	CF,CS,EL,OVAL,FNUC,R=F	
NGC 7217		H207-2	Galaxy (R)SA(r)ab	B,PL,GBM,ER
Sep 24 2016	12"	8mm Et	B,S,R,FNUC,R=G	
Sep 14 2012	36"	17mmT4	B,S,R,BNUC,R=G, SPIRAL STRUCTURE NOTED	
Sep 15 2004	8"	7.5mmW	F.NND.AV.R=F	
Jul 16 2004	8"	25mmPL	10.2 PHOTO MAG. VERY FAINT	
NGC 7224			Galaxy E	F,S,R
Sep 14 2012	36"	17mmT4	F,PS,OVAL,UB,NND,R=F	
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,FNUC,R=F	
NGC 7236			Galaxy SA0-	VF,S,STELLAR
Oct 23 2008	31"	17mmT4	CF,CS,R,FNUC,R=F	
NGC 7237			Galaxy SA0-	VF,S,STELLAR
Oct 23 2008	31"	17mmT4	F,S,R,UB,NND,R=F	
NGC 7241			Galaxy SB(s)bc? pec	PF,LE,*10ATT S
Sep 19 2004	8"	7.5mmW	VF,EL,NND,AV,R=F MAG.=13.8	
NGC 7244			Galaxy S?	EF,ES,R,BM

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NGC 7244			Galaxy S?	EF,ES,R,BM
Oct 23 2008	31"	17mmT4	CF,CS,R,UB,NND,R=F	
NGC 7253A			Galaxy SB?	VF,PE
Oct 23 2008	31"	17mmT4	CF,CS,EON,UB,NND,R=F	
NGC 7253B			Galaxy S?	
Oct 23 2008	31"	17mmT4	F,CS,EON,NND,R=F	
NGC 7270			Galaxy S?	VF,S,E
Oct 23 2008	31"	17mmT4	CF,S,OVAL,FNUC,R=F	
NGC 7271			Galaxy L	VF,S,VLE
Oct 23 2008	31"	17mmT4	F,S,R,UB,NND,R=F	
NGC 7272			Galaxy SBa	VF,S,IR
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 7275			Galaxy Sa	EF,S,ME
Oct 23 2008	31"	17mmT4	CF,CS,EON,FNUC,MSB,R=F	
NGC 7280			H248-2	Galaxy SAB(r)0+
Oct 23 2008	31"	17mmT4	PF,PS,OVAL,BNUC,MSB,R=G	F,CS,R,GBMS*,3*N,NF
Aug 12 2005	8"	7.5mmW	VF,VS,OVAL,AV,R=F	
NGC 7283			Galaxy S?	VF,VS,R
Sep 01 2011	31"	17mmT4	CF,CS,R,UB,NND,R=F	
Oct 23 2008	31"	17mmT4	F,S,OVAL,UB,NND,R=F	
NGC 7286			Galaxy S0/a	VF,S,R,AM ST
Oct 23 2008	31"	17mmT4	CF,CS,EON,UB,NND,R=F	
NGC 7290			Galaxy SA(r)bc	PB,S,PME
Sep 01 2011	31"	17mmT4	PF,PS,OVAL,UB,NND,R=G	
Oct 23 2008	31"	17mmT4	PF,CS,OVAL,UB,NND,R=F	
NGC 7291			Galaxy S0	EF,ES,R,SMBM
Sep 01 2011	31"	17mmT4	PF,PS,R,FNUC,R=F	
Oct 23 2008	31"	17mmT4	PF,CS,R,FNUC,MSB,R=F	
NGC 7292			Galaxy IBm	EF,S,OVAL,F*INV
Aug 25 2009	16"	11mmT6	VF,CS,OVAL,NND.AV.R=F	
Aug 12 2005	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 7303			Galaxy Sbc	VF,S,R,GVLBM
Sep 14 2012	36"	17mmT4	F,PS,OVAL,MEXT,BNUC,R=G, SPIRAL STRUCTURE SEEN TOWARDS NOTHERN PART.	
Aug 25 2009	16"	11mmT6	CF,CS,R,NND,AV,R=F	

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NGC 7304			Non-Existent	VF,PS,VLBM,NF7303,()
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 7305			Galaxy E/S0	EF,S,R,4F*AROUND
Oct 23 2008	31"	17mmT4	F,VS,R,NND,R=P	
NGC 7311			H428-2	Galaxy Sab
Oct 18 2009	12"	11mmT6	VF,VS,OVAL,NND,AV	PF,S,R,PSBM,R
Aug 12 2005	8"	11mmT6	VF,VS,EL,NND,AV,R=F	
NGC 7312			Galaxy SB(s)b	F,S
Oct 23 2008	31"	17mmT4	F,CS,EL,OVAL,UB,R=F	
NGC 7315			Galaxy S0	VF,ES,R,BM
Sep 14 2012	36"	17mmT4	PF,PS,R,UB,NND,R=F	
Oct 23 2008	31"	17mmT4	CF,CS,R,UB,NND,R=F	
NGC 7316			H180-3	Galaxy S
Sep 14 2012	36"	17mmT4	F,PS,OVAL,EXT,FNUC,R=G,FAINT STAR AT SW CORNER.	F,S,R,*8SP
Oct 23 2008	31"	17mmT4	DIFF,F,CS,OVAL,UB,NND,R=F	
NGC 7317			Galaxy E4	VF,VS
Sep 02 2016	12"	5.5mmN	VF,CS,R,NND,AV,R=P	
Sep 10 2015	12"	7mm TV	1ST OBJECT AT WRO WITH 12AD, VF,VS,R=F	
Jul 13 2013	18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012	36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Oct 10 2012	36"	17mmT4	STEPHEN'S QUINTET - GALAXY 1. BRIGHT NUCLEUS	
Aug 06 2010	12"	7mm TV	VF,CS,R,NND,AV,R=F	
Oct 06 2004	31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
NGC 7318A			Galaxy E2 pec	EF,ES
Sep 02 2016	12"	5.5mmN	EF,CS,R,NND,R=F	
Sep 10 2015	12"	7mm TV	VF,VS,R=F	
Jul 13 2013	18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012	36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010	12"	7mm TV	EF,CS,R,NND,R=P	
Oct 06 2004	31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
NGC 7318B			Galaxy SB(s)bc pec	EF,ES
Sep 02 2016	12"	5.5mmN	VF,CS,OVAL,NND,AV,R=F	
Sep 10 2015	12"	7mm TV	VF,VS,R=F	
Jul 13 2013	18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012	36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010	12"	7mm TV	VF,CS,R,NND,AV,R=P	
Oct 06 2004	31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
NGC 7319			Galaxy SB(s)bc pec	EF,ES

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NGC 7319		Galaxy SB(s)bc pec	EF,ES
Sep 02 2016 12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F	
Sep 10 2015 12"	7mm TV	VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,FNUC,R=G	
NGC 7320		Galaxy SA(s)d	F,VS
Sep 02 2016 12"	5.5mmN	CF,PS,OVAL,UB,NND,R=F	
Sep 10 2015 12"	7mm TV	VF,VS,R=F	
Jul 13 2013 18"	5mm TV	STEPHAN'S QUINTET	
Oct 12 2012 36"	17mmT4	DIRECT VISION WITH BRIGHT CORE - 1ST VIEW W/36"	
Aug 06 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Oct 06 2004 31"	17mmT4	MB,EL,OVAL,NND,R=G	
Sep 15 2004 8"	7.5mmW	B,EL,FNUC,HISB,R=G	
NGC 7320C		Galaxy (R)SAB(s)0/a	
Jul 13 2013 18"	5mm TV	VF,VS,R,UB,NND,AV2,R=F	
Oct 06 2004 31"	17mmT4	MF,OVAL,NND,AV,R=F	
NGC 7321	H237-3	Galaxy SB(r)b	F,S,IR,VGVLBM
Aug 29 2010 12"	7mm TV	VF,CS,OVAL,UB,NND,R=F. PA=75	
Oct 23 2008 31"	17mmT4	DIFF,F,CS,OVAL,UB,NND,R=F	
NGC 7323		Galaxy Sb	PF,PL,IR
Sep 14 2012 36"	17mmT4	PF,PS,OVAL,UB,NND,MSB,R=G	
Oct 23 2008 31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 7324		Galaxy E	VF,VS,NEB*
Sep 14 2012 36"	17mmT4	PF,VS,OVAL,PEXT,FNUC,R=G	
Oct 23 2008 31"	17mmT4	F,S,OVAL,NND,R=F	
NGC 7327		Non-Existent	EF,ES,NP 7331
Sep 02 2016 12"	5.5mmN	VF,VS,OVAL,NND,R-F	
NGC 7328		Galaxy Sab	EF,PS,LE90,VGLBM
Oct 23 2008 31"	17mmT4	F,CS,EON,NND,R=F	
NGC 7331	H53-1	Galaxy SA(s)b	B,PL,PME163,SMBM
Sep 02 2016 12"	5.5mmN	PF,PS,EON,BNUC,R=E. SQM-19.96. 56 DEGREES AT 2125 HOURS	
Sep 10 2015 12"	7mm TV	F,PS,EON,FNUC,R=G	
Aug 21 2015 12"	8mm Ds		
Jul 13 2013 18"	7mm TV	EYE CANDY. ALWAYS GREAT TO LOOK AT.	
Oct 21 2012 8"	11mmT6	SMALL SPINDLE, NOT ENOUGH APERATURE OR DARK ENOUGH SKIES.	
Oct 07 2010 12"	17mmAT	F,PS,EON,BNUC,HSB,R=G,PA=10	
Sep 13 2009 12"	32mmUV	3RD OBJECT	

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NGC 7331		H53-1	Galaxy SA(s)b	B,PL,PME163,SMBM
Jul 23 2006	8"	11mmT6	PB,PL,EON,FNUC,R=G	
Jul 16 2004	31"	20mmUV	9.5 PHOTO MAG. BRIGHTER YET.	
Jul 16 2004	8"	25mmPL	9.5 PHOTO MAG. BRIGHT	
NGC 7332		H233-2	Galaxy S0 pec sp	CB,S,ME156,SMBMN,P-2
Sep 24 2016	12"	8mm Et	F,S,EON,BNUC,R=G	
Sep 14 2012	36"	17mmT4	F,S,EON,BNUC,HSB,R=E, VERY NEAR NGC-7339	
Aug 25 2009	16"	11mmT6	PB,PS,EON,BNUC,R=G	
Oct 21 2006	31"	20mmUV	VB,PL,EON,VBNUC,R=G,PAIR W/N7339	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
NGC 7335		H166-3	Galaxy SA(rs)0+	VF,VS
Sep 02 2016	12"	5.5mmN	VF,VS,OVAL,NND,R=F	
Aug 17 2012	18"	7mm TV	F,PS,OVA,PRETTY EXTENDED,NND,R=F	
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,FNUC,R=F	
NGC 7336			Galaxy S	EF,VS
Oct 23 2008	31"	17mmT4	VF,S,OVAL,NND,AV,R=F	
NGC 7337			Galaxy SB(rs)b	EF,S,STELLAR
Sep 02 2016	12"	5.5mmN	VF,VS,OVAL,NND,R=F	
Aug 17 2012	18"	7mm TV	VF,VS,OVAL,MEXT,NND,AV1,R=F	
Oct 23 2008	31"	17mmT4	F,CS,OVAL,NND,R=F	
NGC 7339		H234-2	Galaxy SAB(s)bc:?	F,PS,ME89,VGLBM,FOF2
Sep 24 2016	12"	8mm Et	PF,PS,EON,UB,NND,R=F	
Sep 14 2012	36"	17mmT4	F,S,EON,UB,HSB,R=G, VERY NEAR, NGC-7332	
Aug 25 2009	16"	11mmT6	DIFF,PF,PS,EON,NND,R=F	
Oct 21 2006	31"	20mmUV	PB,PL,EON,NNUC,,R=G,PAIR W/N7332	
Sep 15 2004	8"	7.5mmW	F,PATCH,NND,AV,R=F	
Sep 12 2004	8"	11mmT6	B,S,EL,OVAL,FNUC,HISB,G	
NGC 7340			Galaxy E?	VF,VS
Aug 17 2012	18"	7mm TV	F,S,OVAL,MODERATELY EXTENDED,UB,NND,R=F	
Oct 23 2008	31"	17mmT4	CF,CS,OVAL,UB,NND,R=F	
NGC 7342			Galaxy SBa	EF,VS
Oct 23 2008	31"	17mmT4	F,CS,R,NND,R=F	
NGC 7343			Galaxy (R')SB(s)bc:	EF,VS,R,LBM,S*INV
Oct 23 2008	31"	17mmT4	F,CS,R,NND,R=F	
NGC 7347			Galaxy S?	EF,PL,E
Sep 06 2013	18"	7mm TV	PF,PS,EON,UB,NND,R=F	
NGC 7353			Galaxy Sbc	EF

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NGC 7353			Galaxy Sbc	EF
Aug 17 2012 18"	7mm TV	F,EON,UB,NND,AV2,R=G		
NGC 7356			Galaxy Sbc	EF,PS,R,GLBM,*ATT
Nov 02 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=G		
NGC 7357			Galaxy Sb	VF,VS,VF*INV
Nov 02 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=F,STAR AT NE TIP		
NGC 7360			Galaxy S?	EF,VS
Sep 06 2013 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
NGC 7362			Galaxy E:	VF,S,R,LBM
Aug 12 2005 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 7370			Galaxy	EF,VS
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,NND,R=F		
NGC 7372			Galaxy S?	F,S,IR
Sep 27 2013 18"	7mm TV	PF,PS,R,UB,NND,R=F		
NGC 7373			Galaxy SAB(s)0⁺?	F,VS,BM,STELLAR
Sep 27 2013 18"	7mm TV	VF,PS,R,UB,NND,R=F		
NGC 7374			Galaxy S?	VF,PL,R
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,FNUC,R=F,PAIRED W/PGC-69675		
NGC 7375			Galaxy S(r)0	EF,VS,R
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,FNUC,R=F		
NGC 7383			Galaxy SB0	VF,VS,R,7385NF
Sep 12 2010 12"	5.5mmN	VF,CS,R,UB,NND,AV,R=F		
NGC 7385		H216-3	Galaxy E pec:	CF,S,R,GLBM,*11NP
Aug 12 2005 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 7386		H217-3	Galaxy SA0:	CF,S,R,PGBM,F OF 2
Aug 12 2005 8"	11mmT6	VS,VS,OVAL,NND,AV,R=F		
NGC 7387			Galaxy S0-:	EF,VS,R,2*11S
Sep 27 2013 18"	8.8 ES	PF,PS,OVAL,UB,NND,R=F		
NGC 7389			Galaxy SB0	VF,R
Sep 27 2013 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 7407			Galaxy Sbc	EF,VS
Sep 12 2010 12"	5.5mmN	VF,PS,OVAL,MEXT,UB,NND,AV,R=P,PA=110		

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NGC 7409			Galaxy E	EF
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F		
NGC 7411			Galaxy E:	VF,VS
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,FNUC,R=G		
NGC 7415			Galaxy Sab	EF
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F,PAIRED W/PGC-69984		
NGC 7427			Galaxy Compact	F,S,*9SF4'
Nov 03 2013 36"	17mmT4	CF,PS,R,UB,NND,R=F		
NGC 7430			Galaxy S	EF,VS
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,FNUC,R=F		
NGC 7432		H465-3	Galaxy E	EF,S,R
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,UB,NND,R=G		
NGC 7433			Galaxy S0/a	EF,VS,P 7436
Aug 24 2012 18"	5mm TV	PF,VS,EON,FNUC,R=F		
NGC 7435			Galaxy SB(s)a	EF,S OF 7436
Aug 24 2012 18"	5mm TV	PF,VS,EON,UB,NND,R=F		
NGC 7436		H243-3	Galaxy E	F,PS,F*ATT P,GBM
Aug 24 2012 18"	5mm TV	DIFF,PF,PS,R,UB,NND,R=F		
Aug 25 2009 16"	11mmT6	DIFF,CF,PS,R,NND,R=F		
NGC 7437			Galaxy SAB(rs)d	EEF,L,R,F*NRNF,
Nov 03 2013 36"	17mmT4	DIFF,CF,PS,R,UB,NND,R=F		
NGC 7439			Galaxy SB0	LONG PATCH OF F NEBY
Oct 15 2006 31"	19mmW	VF,PS,R,NND,R=F		
NGC 7442			Galaxy SAc:	PF,R,BET2*16,*13NF
Oct 15 2006 31"	19mmW	VF,L,R,NND,R=F		
NGC 7448		H251-2	Galaxy SA(rs)bc	PB,L,E173,VGBM,*F2'
Sep 24 2016 12"	8mm Et	F,S,OVAL,FNUC,R=G		
Sep 10 2015 12"	8mm Ds	F,PS,OVAL,MEXT,UB,NND,R=F		
Oct 26 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=G		
Sep 12 2004 8"	11mmT6	F,EL,OVAL,NND,AV,F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7451			Galaxy SBbc	PF,PL,*10,11SP2'
Oct 15 2006 31"	19mmW	VF,CS,EON,NND,AV,R=F		

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NGC 7454		H249-2	Galaxy E4	F,CS,LE,LBM,*11P1'
Aug 21 2004 8"	11mmT6	****13.6 PHOTO MAGNITUDE****		
NGC 7457		H212-2	Galaxy SA(rs)0-?	CB,CL,LE,GMBM,R,2S*N
Sep 24 2016 12"	8mm Et	F,S,OVAL,MEXT,UB,NND,R=G		
Oct 15 2006 31"	19mmW	F,L,OVAL,NND,R=F		
Sep 19 2004 8"	7.5mmW	F,EL,UB,NND,R=G		
NGC 7461			Galaxy SB0	VF,VS,ALMSTELLAR
Oct 15 2006 31"	19mmW	VF,CS,R,NND,AV,R=F		
NGC 7463		H210-3	Galaxy SABb: pec	VF,S,LE,P OF 2
Sep 10 2015 12"	8mm Ds	PF,PS,OVAL,PEXT,UB,NND,R=F		
Oct 26 2014 12"	8mm Ds	VF,PS,EON,UB,NND,AVII,R=F		
Nov 02 2010 31"	17mmT4	PF,S,EON,UB,HSB,R=G		
Oct 15 2006 31"	19mmW	PF,PL,EON,NND,R=F		
NGC 7464			Galaxy E1 pec:	VF,VS,E,SF7463
Sep 10 2015 12"	8mm Ds	VF,PS,R,UB,NND,R=F		
Nov 02 2010 31"	17mmT4	PF,PS,R,NND,USB,R=F		
Oct 15 2006 31"	19mmW	PF,CS,R,NND,R=F		
NGC 7465		H211-3	Galaxy (R')SB(s)0^:	VF,VS,FOF 2
Sep 10 2015 12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
Oct 26 2014 12"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
Nov 02 2010 31"	17mmT4	F,S,R,BNUC,R=G		
Oct 15 2006 31"	19mmW	B,PL,OVAL,FNUC,R=G		
NGC 7466			Galaxy Sb	EF,ES,BM
Oct 15 2006 31"	19mmW	B,PL,EON,FNUC,R=G		
NGC 7467			Galaxy E/S0	EF,VS
Oct 15 2006 31"	19mmW	VF,CS,R,NND,AV,R=F		
NGC 7468		H202-3	Galaxy E3: pec	EF,VS
Oct 15 2006 31"	19mmW	PB,L,EL,OVAL,FNUC,R=G		
NGC 7469		H230-3	Galaxy (R')SAB(rs)a	VF,VS,VSMBM *12
Oct 05 2016 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
Sep 19 2004 8"	7.5mmW	B,OVAL,NUC,R=G		
NGC 7473			Galaxy SB0	VF,S,R
Oct 15 2006 31"	19mmW	PB,CL,EL,OVAL,NND,R=F		
NGC 7474			Galaxy L	EF,VS
Oct 15 2006 31"	19mmW	CF,PS,R,NND,AV,R=F		

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NGC 7475			Galaxy Double System	VF,S
Oct 15 2006	31"	19mmW	CF,PS,OVAL,NND,AV,R=F	
NGC 7479		H55-1	Galaxy SB(s)c	PB,CL,ME12,BET2ST
Sep 24 2016	12"	8mm Et	F,S,R,UB,NND,R=F	
Sep 19 2004	8"	7.5mmW	VF,EL,NND,R=F	
NGC 7485			Galaxy S0	VF,S,R,BM,*10P
Oct 15 2006	31"	19mmW	VB,L,OVAL,FNUC,R=G	
NGC 7487			Galaxy Compact	VF,S,R
Oct 15 2006	31"	19mmW	VF,VS,R,NND,R=F	
NGC 7489			Galaxy Sd	F,S,R
Oct 15 2006	31"	19mmW	PF,L,OVAL,NND,R=F	
NGC 7490			Galaxy Sbc	VF,VS,IR,LBM
Sep 01 2005	8"	7.5mmW	VF,VS,R,NND,AV,R=F	
NGC 7495			Galaxy SAB(s)c	EF,S,LE,*9NF NR
Oct 15 2006	31"	19mmW	VF,PS,R,NND,AV,R=F	
NGC 7497		H203-3	Galaxy SB(s)d	VF,L,PME45,LBM
Oct 06 2004	8"	7.5mmW	VF,EON,NND,AV,R=F	
Sep 19 2004	8"	7.5mmW	VF,PATCH,NND,AV,R=F MAG=13.3	
NGC 7500			Galaxy S0	EF,VS,R
Oct 15 2006	31"	19mmW	B,CL,OVAL,NND,R=F	
NGC 7505			Galaxy	EEF,ES,LE,BET B*\$2F*
Oct 15 2006	31"	19mmW	CF,CS,EON,NND,R=F	
NGC 7508			Galaxy S	EF,BM*,*11NP2'
Oct 15 2006	31"	19mmW	CF,CS,EON,NND,R=F	
NGC 7509			Galaxy C	VF,S,R,BET2*
Oct 15 2006	31"	19mmW	PF,S,R,NND,R=F	
NGC 7511			Galaxy S?	EEF,S,R,SEV*NF,
Oct 15 2006	31"	19mmW	PB,S,OVAL,FNUC,R=G	
NGC 7512			Galaxy E	F,S,R,VS*IN CENTRE
Sep 04 2005	8"	11mmT6	VF,VS,NND,LSB,R=F	
NGC 7514			Galaxy S?	EF,PL,IR
Sep 04 2005	8"	11mmT6	VF,VS,NND,AV,R=F	

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NGC 7515		H220-3	Galaxy S?	F,CS,R,VGLBM,R
Sep 04 2005 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 7516			Galaxy S0	F,VS,STELLAR
Oct 15 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 7519			Galaxy Sb:	VF,PL
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F		
NGC 7527			Galaxy E	VF,VS,STELLAR
Nov 02 2010 31"	17mmT4	PF,CS,OVAL,UB,HSB,R=F		
NGC 7528			Galaxy	F,S
Oct 30 2005 31"	17mmT4	MF,MS,OVAL,NND,R=F		
NGC 7539			Galaxy S0	F,S,R,PSBM
Sep 04 2005 8"	7.5mmW	VF,VS,R,NND,AV,R=F		
NGC 7543			Galaxy S?	VF,S,R,LBM
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
NGC 7547			Galaxy (R')SAB(s)0/a p	VF,S,IR
Sep 10 2015 12"	7mm TV	VF,VS,R,UB,NND,AV,R=F		
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
NGC 7548			Galaxy (R)SAB(r)0^:	VF,VS,*16P11S
Nov 02 2010 31"	17mmT4	PF,VS,R,FNUC,R=F		
NGC 7549			Galaxy SB(s)cd pec	PF,PS,R,*10,11P
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
Sep 09 2010 12"	5.5mmN	VF,CS,EON,NND,AV,=P,PA=45		
NGC 7550		H181-3	Galaxy SA0-	CF,S,R
Sep 10 2015 12"	7mm TV	PF,PS,R,UB,NND,R=F		
Aug 25 2009 16"	11mmT6	CF,CS,R,UB,NND.R=F		
Aug 12 2005 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 7553			Non-Existent	
Sep 10 2015 12"	7mm TV	VF,VS,R,UB,NND,AV1,R=P		
Oct 30 2005 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
NGC 7559			Non-Existent	
Dec 13 2012 18"	7mm TV	VF,PS,OVAL,UB,NND,AV1,R=F		
NGC 7563		H222-3	Galaxy SBa	PF,CS,R,SBM*16,SFOF2
Sep 04 2005 8"	7.5mmW	VF,OVAL,NND,AV,R=F		

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NGC 7568		Galaxy S?	EF,PL,IR,SEV ST INV
Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
NGC 7570		H238-3 Galaxy SBa	EF,ES
Sep 09 2010 12"	5.5mmN	VF,CS,OVAL,PEXT,NND,AV,R=F,PA=90	
NGC 7578A		Galaxy S0^ pec	VF,AM VS ST
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-7578B	
NGC 7578B		Galaxy E1:	
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F,PAIRED W/NGC-7578A	
NGC 7588		Galaxy S	EF,ES
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 7594		Galaxy S?	PF,R,3ST P
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 7595		Galaxy	F,STELLAR
Oct 30 2005 31"	17mmT4	MF,MS,OVAL,NND,R=F	
NGC 7597		Galaxy S?	EF,VS,GBM
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F	
NGC 7598		Galaxy E	EF,ES,STELLAR
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 7601		Galaxy SAB(s)c:	PB,DIF
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
NGC 7602		Galaxy S?	EF,ES,STELLAR
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F	
NGC 7608		Galaxy S?	VF,PS,LE,LBM
Nov 03 2013 36"	17mmT4	CF,PS,EON,UB,NND,R=F,PA=22	
NGC 7609		Galaxy Pec	VF,VS,GBM
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
NGC 7610		Galaxy Scd:	F,S,DIF
Oct 18 2009 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
NGC 7612		Galaxy S0	PB,VS,R,BM
Oct 18 2009 12"	11mmT6	PF,PS,OVAL,FNUC,R=F	
NGC 7615		Galaxy Sb?	EF,CS
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,MEXT,UB,NND,R=F	

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NGC 7619		H439-2	Galaxy E	CB,PS,R,PSBM
Sep 10 2015 36"	17mmT4	F,S,UB,NND,R=G		
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Oct 26 2014 12"	11mmT6	PF,PS,R,UB,NND,R=F		
Oct 24 2012 18"	7mm TV	F,PS,OVAL,FNUC,HSB,R=G		
Aug 25 2011 12"	7mm TV	PF,PS,R,FNUC,R=G		
Oct 30 2005 31"	17mmT4	VB,ML,R,FNUC,MSB,R=G		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7620			Galaxy Scd:	F,S,VLE
Sep 09 2010 12"	5.5mmN	PF,CS,R,FNUC,R=F		
Oct 30 2005 31"	17mmT4	MB,ML,R,FNUC,MSB,R=G		
NGC 7621			Galaxy S	EF,VS,STELLAR
Oct 30 2005 31"	17mmT4	VF,VS,EL,NND,AV,R=F		
NGC 7623		H435-3	Galaxy SA0^:	F,VS,R,PSBM
Oct 26 2014 12"	11mmT6	PF,VS,OVAL,UB,NND,R=P		
Oct 30 2005 31"	17mmT4	VB,VL,OVAL,FNUC,MSB,R=G		
NGC 7624			Galaxy Scd:	VF,LEORIR,DIF,VLBM
Oct 30 2005 31"	17mmT4	MB,ML,OVAL,NND,MSB,R=G		
NGC 7625		H250-2	Galaxy SA(rs)a pec	PB,CS,R,SMBM
Sep 01 2005 8"	7.5mmW	VF,VS,R,NND,AV,R=F		
NGC 7626		H440-2	Galaxy E pec:	CB,PS,R,PSBM
Sep 10 2015 36"	17mmT4	SHOWS DIAGONAL BART IN 36". R=G		
Sep 10 2015 12"	7mm TV	PF,PS,OVAL,FNUC,R=F		
Oct 26 2014 12"	11mmT6	PF,PS,R,UB,NND,R=F		
Aug 25 2011 12"	7mm TV	PF,PS,R,FNUC,R=G		
Oct 30 2005 31"	17mmT4	VB,ML,R,FNUC,MSB,R=G		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7628			Galaxy E	VF,S,R,BM
Nov 02 2010 31"	17mmT4	F,PS,R,FNUC,HSB,R=G		
Oct 30 2005 31"	17mmT4	MB,ML,OVAL,FNUC,MSB,R=G		
NGC 7630			Galaxy S?	F,S
Oct 30 2005 31"	17mmT4	VF,VS,EL,NND,R=F		
NGC 7631			Galaxy SA(r)b:	VF,VS
Sep 05 2010 12"	5.5mmN	CF,PS,EON,UB,NND,R=F,PA=40		
Oct 30 2005 31"	17mmT4	MB,ML,EL,NND,R=F		
NGC 7634		H441-2	Galaxy SB0	F,S,F**ATT
Sep 05 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=P,PA=90		

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NGC 7641		Galaxy	VF,S,IR,DIF,LBM
Nov 03 2013 36"	17mmT4	PF,PS,EON,UB,NND,R=F,PA=135	
NGC 7643		Galaxy S?	F,PS,IR,DIF,LBM
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,MEXT,NND,R=G	
NGC 7644		Galaxy	VF,PS,LE
Oct 25 2006 31"	17mmT4	CF,CS,EON,NND,R=F	
NGC 7647		H473-3	Galaxy E
Oct 25 2006 31"	17mmT4	CF,CS,OVAL,NND,R=F	EF,(CL),P A ROWOF ST
NGC 7648		H218-3	Galaxy S0
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,MEXT,FNUC,R=F,PA=135	VF,PS,LE,BM
NGC 7649		Galaxy E	VF,PL,R
Oct 25 2006 31"	17mmT4	B,L,OVAL,NND,R=G	
NGC 7651		Galaxy cD	EF,S,R
Oct 25 2006 31"	17mmT4	PF,L,OVAL,NND,R=F	
NGC 7653		Galaxy Sb	VF,PS,R,GBM
Oct 25 2006 31"	17mmT4	PB,L,R,FNUC,MHISB,R=G	
Sep 04 2005 8"	7.5mmW	VF,VVS,R,NND,AV,R=F	
NGC 7660		Galaxy E	F,VS,PSMBM,*10P
Aug 25 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 7664		Galaxy Sc:	VF,*S,2ST11,12P
Sep 04 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
NGC 7671		H226-3	Galaxy SA0:
Aug 24 2012 18"	5mm TV	PF,VS,OVAL,MEXT,FNUC,R=F	PB,S,R,VSMBM,*9P
NGC 7673		Galaxy (R')SAc? pec	F,S,R
Nov 21 2006 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
NGC 7674		Galaxy SA(r)bc pec	F,CS,GBM,P OF 2
Sep 09 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F	
NGC 7677		Galaxy SAB(r)bc:	EF,VS,STELL
Sep 09 2010 12"	5.5mmN	PF,CS,OVAL,MEXT,FNUC,R=F,PA=95, 4 STAR AST TO S.W.	
NGC 7678		H226-2	Galaxy SAB(rs)c
Aug 25 2009 16"	11mmT6	CF,CS,OVAL,NND,R=F	VF,PL,VLE,LBM,AM4ST
Sep 04 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F	

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NGC 7680 Sep 04 2005 8"	7.5mmW	H860-3 VF,VS,R,FNUC,AV,R=F	Galaxy S0-:	VF,S,R,LBM,R
NGC 7691 Aug 24 2012 18"	5mm TV	H213-3 PF,PS,OVAL,UB,NND,R=F	Galaxy SAB(rs)bc	EF,PL,TRI W/2*10
NGC 7711 Sep 09 2010 12"	5.5mmN	H244-2 PF,PS,OVAL,PEXT,FNUC,R=F,PA=170	Galaxy S0	F,S,R,PSBM,STELLAR
NGC 7712 Sep 09 2010 12"	5.5mmN	H244-2 CF,VS,OVAL,UB,NND,R=F,PA=10	Galaxy E?	VF
NGC 7720 Sep 12 2004 8"	11mmT6	H146-3 F,EL,OVAL,NND,AV,F	Galaxy E+ pec: 13.9 (P) MAG.	F,S,LE,BM,AM ST
NGC 7722 Sep 09 2010 12"	5.5mmN	H146-3 PF,PS,OVAL,MEXT,FNUC,R=G,PA=40	Galaxy S0/a	PB,PL,R,MBM
NGC 7726 Nov 03 2013 36"	17mmT4	H146-3 DIFF,,PF,CS,OVAL,MEXT,NND,R=F	Galaxy SB(s)b	EEF,PS,R,VDIFFIC
NGC 7728 Nov 03 2013 36"	17mmT4	H146-3 CFR,CS,OVAL,MEXT,FNUC,R=G	Galaxy E	VF,VS,LE,*10SP
NGC 7729 Nov 03 2013 36"	17mmT4	H146-3 CF,PS,EON,UB,NND,R=F,PA=7	Galaxy Sa	VF,S,IE,F*INV S
NGC 7735 Nov 03 2013 36"	17mmT4	H146-3 CF,CS,OVAL,MEXT,UB,NND,R=F	Galaxy E	VF,S,VLE,*13NF VNR
NGC 7737 Nov 03 2013 36"	17mmT4	H146-3 CF,PS,OVAL,MEXT,FNUC,R=G	Galaxy S0/a	VF,S,MBMN
NGC 7741 Sep 12 2004 8" Aug 21 2004 8"	11mmT6 11mmT6	H208-2 B,S,EL,OVAL,FNUC,HISB,G CLEAR SKIES - H.H. LITE. 1ST REAL TEST	Galaxy SB(s)cd	CF,CL,IR,D*10,12NP2'
NGC 7742 Sep 19 2004 8"	7.5mmW	H255-2 B,EL,OVAL,NND,R=G	Galaxy SA(r)b	CB,CS,GMBM,*12F72"
NGC 7743 Sep 19 2004 8"	7.5mmW	H256-2 F,EL,OVAL,NND,R=G	Galaxy (R)SB(s)0+	PF,S,R,*14SF
NGC 7747 Nov 03 2013 36"	17mmT4	H256-2 PF,PS,OVAL,FNUC,R=F	Galaxy (R')SB(s)b	VF,VS,IR
NGC 7752			Galaxy I0:	F,S,LE,P 7753

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NGC 7752		Galaxy I0:	F,S,LE,P 7753
Nov 03 2013 36"	17mmT4	CF,CS,OVAL,MEXT,FNUC,R=F	
NGC 7753		H213-2 Galaxy SAB(rs)bc	CF,CL,VLE,VGLBM,R
Sep 05 2010 12"	7mm TV	CF,PS,OVAL,UB,NND,R=F,PA=100	
NGC 7768		Galaxy E	VF,S,E,*INV,*P VNR
Sep 12 2004 8"	11mmT6	F,EL,OVAL,NND,AV,F 14.0 (P) MAG.	
NGC 7769		H230-2 Galaxy (R)SA(rs)b	PF,PS,R,MBM
Sep 10 2015 12"	7mm TV	PF,PS,R,UB,NND,R=F	
Oct 26 2014 12"	11mmT6	PF,S,OVAL,UB,NND,R=G	
Sep 19 2014 18"	8mm Ds	PF,PS,R,FNUC,R=G, WRO - 9/19/14	
Sep 04 2005 8"	11mmT6	MF,ML,R,NND,R=G	
NGC 7770		Galaxy S0/a?	VF,VS,IR,S OF 2
Oct 26 2014 12"	11mmT6	VF,VS,OVAL,UB,NND,AVII,R=P	
Sep 19 2014 18"	8mm Ds	PF,VS,OVAL,PEXT,UB,NND,R=F,, WRO - 9/19/14	
NGC 7771		H231-2 Galaxy SB(s)a	PB,PL,E84,BM,N OF 2
Sep 10 2015 12"	7mm TV	VF,PS,OVAL,MEXT,NND,R=F	
Oct 26 2014 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F	
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F, WRO - 9/19/14	
Sep 04 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F	
NGC 7775		Galaxy Scd:	VF,PS,LE,GLBM
Sep 09 2010 12"	5.5mmN	VF,CS,R,UB,NND,R=F	
NGC 7786		Galaxy S?	PF,PS,LE,VFSTINV,F-2
Sep 09 2010 12"	5.5mmN	CF,VS,OVAL,UB,NND,R=F,PA=55	
NGC 7794		H466-3 Galaxy S?	VF,PS,IR
Sep 09 2010 12"	5.5mmN	CF,CS,R,UB,NND,R=F	
NGC 7798		H232-2 Galaxy S	PF,S,R,SBM,*10SP
Nov 21 2006 8"	11mmT6	VF,PS,OVAL,AV,R=F	
NGC 7800		H10-2 Galaxy Im?	F,PS,E39
Sep 09 2010 12"	5.5mmN	CF,PS,OVAL,MEXT,UB,NND,R=F,PA=95	
NGC 7803		Galaxy S0/a	PF,PS,R,F*NP VNR
Oct 18 2009 12"	11mmT6	PF,PS,R,UB,NND,R=F	
Nov 02 2005 31"	19mmW	PB,PL,OVAL,FNUC,MSB,R=G	
NGC 7805		H855-3 Galaxy SAB0^: pec	EF,S,R,SBM,SP OF 2
Nov 02 2005 31"	19mmW	PB,PL,OVAL,FNUC,MSB,R=G	

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NGC 7806		H856-3	Galaxy SA(rs)bc? pec	EF,S,R,NF OF 2,STELL
Nov 02 2005 31"	19mmW	PB,PL,EL,OVAL,FNUC,MSB,R=G		
NGC 7810		H984-3	Galaxy S0	PF,STELL,2*NP INLINE
Nov 02 2005 31"	19mmW	PBML,OVAL,FNUC,MSB,R=G		
NGC 7814		H240-2	Galaxy SA(s)ab: sp	CB,CL,E,VGBM
Oct 09 2018 12"	8mm Et	F,S,OVAL,MEXTY,R=F		
Sep 24 2016 12"	8mm Et	B,S,EON,FNUC,R=G		
Aug 21 2015 12"	8mm Ds			
Aug 25 2009 16"	11mmT6	PF,PS,EON,FNUC,R=F		
Oct 30 2008 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
Nov 10 2007 31"	17mmT4	PB,PL,EL,OVAL,UB,NND,R=G		
Jul 23 2006 8"	11mmT6	CF,CS,OVAL,NND,AV,R=F		
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST		
NGC 7817		H227-2	Galaxy SAbc: sp	PF,CL,ME45,LBM
Sep 24 2016 12"	8mm Et	VF,PS,OVAL,MEXT,NND,R=F		
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, WRO - 9/13/14		
Aug 25 2009 16"	11mmT6	DIFF,CF,PS,EON,NND,R=F		
Sep 15 2004 8"	7.5mmW	EF,OVAL,PATCH,NND,AV,R=F		
NGC 7819			Galaxy SB(s)b	EF,L
Aug 25 2009 16"	11mmT6	VF,VS,R,NND,AV,R=F		
Nov 02 2005 31"	19mmW	PF,ML,OVAL,NND,R=F		
PAL 13			Globular	
Nov 02 2005 31"	19mmW	PF,PS,PATCHY,R=F, CAN'T RESOLVE STARS		
PEASE 1			Planetary Neb 1	
Sep 27 2005 31"	17mmT4	VB,VS,R=F		
PGC 25			Galaxy Double System	
Sep 19 2014 18"	8mm Ds	VF,VS,OVAL,MEXT,NND,R=F, WRO - 9/13/14		
PGC 108			Galaxy S?	
Nov 02 2005 31"	19mmW	MF,PL,OVAL,NND,R=F		
PGC 120			Galaxy (R)S(r)cd: pec	
Sep 19 2014 18"	8mm Ds	PF,VS,OVAL,UB,NND,R=F, WRO - 9/19/14		
PGC 134			Galaxy	
Nov 02 2005 31"	19mmW	PF,PS,R,NND,R=F		
PGC 619			Galaxy Scd:	
Nov 02 2005 31"	19mmW	MF,ML,OVAL,NND,R=F		

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PGC 847			Galaxy Sa
Nov 02 2005 31"	19mmW	PF,PS,EL,OVAL,R=F	
PGC 878			Galaxy S?
Nov 02 2005 31"	19mmW	B,ML,OVAL,FNUC,R=F	
PGC 911			Galaxy S
Nov 02 2005 31"	19mmW	VF,VS,R,NND,AV,R=F	
PGC 66966			Galaxy E
Sep 25 2006 31"	19mmW	PF,VS,OVAL,NND,R=F	
PGC 67153			Galaxy S?
Sep 25 2006 31"	19mmW	VF,VS,EON,NND,AV,R=F	
PGC 67741			Galaxy C
Sep 25 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F	
PGC 67762			Galaxy
Sep 25 2006 31"	19mmW	VF,VS,R,NND,AV,R=F	
PGC 67897			Galaxy SB?
Sep 01 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F	
PGC 68011			Galaxy S
Oct 23 2008 31"	17mmT4	VF,S,EON,NND,R=F	
PGC 68259			Galaxy Sa
Oct 23 2008 31"	17mmT4	F,S,R,NND,R=F	
PGC 68325			Galaxy
Oct 23 2008 31"	17mmT4	VF,VS,R,NND,AV,R=P	
PGC 68327			Galaxy SBcd?
Oct 23 2008 31"	17mmT4	VF,CS,EON,NND,AV,R=P	
PGC 68331			Galaxy
Oct 23 2008 31"	17mmT4	F,VS,OVAL,NND,AV,R=F	
PGC 68341			Galaxy Sab
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
PGC 68343			Galaxy S
Oct 23 2008 31"	17mmT4	VF,S,R,NND,AV,R=P	
PGC 68348			Galaxy Sc
Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=P	

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PGC 68356			Galaxy
Oct 23 2008 31"	17mmT4	F,VS,R,UB,NND,R=F	
PGC 68368			Galaxy C
Oct 23 2008 31"	17mmT4	F,CS,R,NND,R=F	
PGC 68393			Galaxy
Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
PGC 68543			Galaxy SA(s)c
Oct 23 2008 31"	17mmT4	VF,S,R,NND,AV,R=F	
PGC 68617			Galaxy Sbc
Oct 30 2005 31"	17mmT4	MB,ML,EON,FNUC,R=F	
PGC 68664			Galaxy SBc
Sep 25 2006 31"	19mmW	VF,CS,OVAL,NND,AV,R=F	
PGC 68952			Galaxy C
Sep 01 2011 31"	17mmT4	CF,CS,R,UB,NND,R=F	
Oct 23 2008 31"	17mmT4	CF,CS,R,UB,NND,R=F	
PGC 69025			Galaxy S
Sep 01 2011 31"	17mmT4	CF,VS,R,UB,NND,AV3,R=P	
PGC 69095			Galaxy SBb
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
PGC 69148			Galaxy S
Oct 23 2008 31"	17mmT4	F,S,OVAL,UB,NND,R=F	
PGC 69220			Galaxy Sd:
Oct 23 2008 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F	
PGC 69245			Galaxy
Sep 14 2012 36"	17mmT4	VF,VS,R,UB,NND,AV3,R=F,ABUTS NGC-7315	
PGC 69281			Galaxy Sb
Oct 23 2008 31"	17mmT4	CF,CS,EL,OVAL,UB,NND,R=F	
PGC 69305			Galaxy S0
Oct 23 2008 31"	17mmT4	F,S,OVAL,NND,R=F	
PGC 69351			Galaxy S
Oct 23 2008 31"	17mmT4	VF,S,OVAL,NND,AV,R=F	
PGC 69360			Galaxy S0

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PGC 69360			Galaxy S0
Oct 23 2008	31"	17mmT4 F,S,OVAL,,NND,R=F	
PGC 69387			Galaxy E
Oct 23 2008	31"	17mmT4 F,S,OVAL,UB,NND,R=F	
PGC 69402			Galaxy SB?b
Oct 23 2008	31"	17mmT4 VF,S,OVAL,NND,AV,R=F	
PGC 69434			Galaxy S?
Oct 23 2008	31"	17mmT4 F,S,R,UB,NND,R=F	
PGC 69457			Galaxy Sab
Sep 11 2007	31"	12mmT4 PF,PS,OVAL,UB,NND,R=F,HINT OF HALO?	
PGC 69486			Galaxy SB0/a
Oct 23 2008	31"	17mmT4 F,CS,OVAL,UB,NND,R=F	
PGC 69493			Galaxy S0
Oct 23 2008	31"	17mmT4 CF,CS,R,UB,NND,R=F	
PGC 69524			Galaxy S
Oct 23 2008	31"	17mmT4 CF,CS,EON,NND,AV,R=F	
PGC 69559			Galaxy Sb
Nov 02 2010	31"	17mmT4 PF,PS,OVAL,UB,NND,R=F	
PGC 69675			Galaxy
Nov 03 2013	36"	17mmT4 PF,PS,OVAL,FNUC,R=F,PAIRED W/NGC-7374	
PGC 69858			Galaxy S0?
Aug 25 2011	12"	5mm TV VF,VS,R,UB,NND,AV,R=P	
PGC 69955			Galaxy
Nov 03 2013	36"	17mmT4 VF,VS,R,NND,R=F	
PGC 69984			Galaxy S
Nov 03 2013	36"	17mmT4 PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-7415	
PGC 69986			Galaxy
Nov 02 2010	31"	17mmT4 CF,ES,R,UB,NND,R=F	
PGC 70001			Galaxy
Nov 02 2010	31"	17mmT4 PF,ES,R,UB,NND,R=F,STAR AT NNW EDGE	
PGC 70019			Galaxy
Nov 02 2010	31"	17mmT4 PF,ES,R,FNUC,R=F	

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PGC 70022		Galaxy
Nov 02 2010 31"	17mmT4	CF,ES,R,UB,NND,R=F
PGC 70023		Galaxy Sb
Nov 02 2010 31"	17mmT4	PF,ES,R,UB,NND,R=P,STAR AT SW EDGE
PGC 70054		Galaxy Sc
Nov 02 2010 31"	17mmT4	CF,VS,R,UB,NND,R=F
PGC 70055		Galaxy
Nov 02 2010 31"	17mmT4	PF,ES,R,UB,NND,R=F
PGC 70063		Galaxy SB?
Nov 02 2010 31"	17mmT4	CF,VS,OVAL,PEXT,UB,NND,R=F,STAR AT SSE EDGE
PGC 70064		Galaxy Sa
Nov 02 2010 31"	17mmT4	PF,PS,EON,FNUC,MSB,R=G,FAINT BULGE DETECTED
PGC 70111		Galaxy C
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F
PGC 70115		Galaxy
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,UB,NND,R=F
PGC 70136		Galaxy S
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F
PGC 70162		Galaxy S
Nov 03 2013 36"	17mmT4	VF,PS,R,UB,NND,AV1,R=F
PGC 70174		Galaxy S
Oct 15 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F
PGC 70175		Galaxy Sdm:
Nov 03 2013 36"	17mmT4	VF,CS,EON,UB,NND,R=F,PA=30
PGC 70180		Galaxy
Nov 03 2013 36"	17mmT4	PF,PS,R,UB,NND,R=F
PGC 70190		Galaxy
Nov 02 2010 31"	17mmT4	PF,VS,R,FNUC,R=G
PGC 70200		Galaxy
Nov 02 2010 31"	17mmT4	CF,CS,OVAL,UB,R=F
PGC 70210		Galaxy
Nov 02 2010 31"	17mmT4	PF,VS,R,FNUC,,R=F

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PGC 70211			Galaxy SB
Oct 15 2006 31"	19mmW	CF,CS,R,NND,AV,R=F	
PGC 70228			Galaxy Sc
Nov 02 2010 31"	17mmT4	VF,CS,OVAL,PET,UB,NND,R=F,AV2	
PGC 70247			Galaxy Sc
Nov 03 2013 36"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
PGC 70254			Galaxy S0/a
Oct 15 2006 31"	19mmW	PF,PS,EON,NND,R=F	
PGC 70269			Galaxy
Oct 15 2006 31"	19mmW	PF,PS,R,NND,R=F	
PGC 70275			Galaxy S?
Oct 15 2006 31"	19mmW	PF,PS,EL,OVAL,NND,R=F	
PGC 70307			Galaxy Sb-c
Nov 02 2010 31"	17mmT4	VF,VS,EON,NND,R=F,AV4	
PGC 70326			Galaxy S0/a
Oct 15 2006 31"	19mmW	VF,VS,OVAL,NND,R=F	
PGC 70374			Galaxy SB0
Oct 15 2006 31"	19mmW	VF,CS,OVAL,NND,R=F	
PGC 70403			Galaxy S
Oct 15 2006 31"	19mmW	VF,VS,OVAL,NND,R=F	
PGC 70404			Galaxy S
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
PGC 70445			Galaxy S?
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
PGC 70463			Galaxy Sb-c
Oct 15 2006 31"	19mmW	CF,CS,EON,NND,R=F	
PGC 70537			Galaxy SBb/Sb
Oct 15 2006 31"	19mmW	VF,PS,OVAL,NND,AV,R=F	
PGC 70842			Galaxy E?
Oct 30 2008 31"	17mmT4	MF,MS,R,NND,R=F	
PGC 71054			Galaxy S
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	

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PGC 71080			Galaxy S?
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
PGC 71085			Galaxy Dwarf?
Nov 03 2013 36"	17mmT4	VF,VS,OVAL,PEXT,UB,NND,AV2,R=F	
PGC 71092			Galaxy S0
Nov 02 2010 31"	17mmT4	PF,CS,OVAL,FNUC,R=G,PA=170, 8TH MAG STAR AT WEST EDGE	
PGC 71094			Galaxy Sc-Irr
Nov 02 2010 31"	17mmT4	VF,VS,OVAL,UB,NND,R=F,AV4	
PGC 71101			Galaxy
Nov 02 2010 31"	17mmT4	PF,CS,OVAL,FNUC,R=F	
PGC 71119			Galaxy S?
Nov 02 2010 31"	17mmT4	CF,VS,OVAL,UB,NND,R=F	
PGC 71156			Galaxy
Nov 02 2010 31"	17mmT4	CF,ES,R,UB,NND,R=F	
PGC 71299			Galaxy
Oct 25 2006 31"	17mmT4	CF,CS,OVAL,NND,R=F	
PGC 71315			Galaxy
Oct 25 2006 31"	17mmT4	CF,CS,R,NND,AV,R=F	
PGC 71317			Galaxy
Oct 25 2006 31"	17mmT4	VF,VS,OVAL,NND,R=F	
PGC 71319			Galaxy
Oct 25 2006 31"	17mmT4	F,CS,OVAL,NND,R=F	
PGC 71320			Galaxy
Oct 25 2006 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F	
PGC 71322			Galaxy
Oct 25 2006 31"	17mmT4	EF,ES,R,NND,AV,R=F	
PGC 71323			Galaxy Sc
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
PGC 71324			Galaxy
Oct 25 2006 31"	17mmT4	CF,PS,OVAL,FNUC,R=F	
PGC 71326			Galaxy
Oct 25 2006 31"	17mmT4	VF,PS,R,NND,AV,R=F	

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PGC 71327			Galaxy E
Oct 25 2006 31"	17mmT4	EF,ES,R,AV,R=F	
PGC 71330			Galaxy
Oct 25 2006 31"	17mmT4	VF,CS,OVAL,NND,AV,R=F	
PGC 71331			Galaxy
Oct 25 2006 31"	17mmT4	VF,PS,R,NND,R=F	
PGC 71332			Galaxy
Oct 25 2006 31"	17mmT4	PF,CS,OVAL,NND,R=F	
PGC 71337			Galaxy
Oct 25 2006 31"	17mmT4	VF,PS,R,NND,R=F	
PGC 71342			Galaxy
Oct 25 2006 31"	17mmT4	CF,PS,R,NND,R=F	
PGC 71355			Galaxy SB?
Oct 25 2006 31"	17mmT4	CF,L,OVAL,PATCHY,NND,R=F	
PGC 71359			Galaxy SBab
Oct 25 2006 31"	17mmT4	PF,L,OVALNND,R=F	
PGC 71371			Galaxy L
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
PGC 71374			Galaxy
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,NND,R=F	
PGC 71386			Galaxy S0/a
Oct 25 2006 31"	17mmT4	PB,PS,EON,FNUC,MHISB,R=G	
PGC 71398			Galaxy
Oct 25 2006 31"	17mmT4	PF,L,R,NND,R=F	
PGC 72179			Galaxy S?
Nov 03 2013 36"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
PGC 72341			Galaxy C
Nov 03 2013 36"	17mmT4	PF,VS,OVAL,UB,NND,R=F	
PGC 72346			Galaxy Sd
Nov 03 2013 36"	17mmT4	VF,VS,R,UB,NND,R=F	
UGC 12914			Galaxy
Sep 09 2010 12"	5.5mmN	PF,PS,OVAL,PEXT,UB,NND,R=F,PA=30,PAIRED W/UGC 12915	

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UGC 12915

Galaxy

Sep 09 2010 12" 5.5mmN CF,CS,OVAL,MET,UB,NND,R=F,PA=20,PAIRED W/UGC 12914

Perseus - Rescuer of Andromeda

CR	39		Open Cluster III3m		
	Oct 30 2007	1.9"	12x50	PB,EL,R=G, MASSIVE CLUSTER	
	Nov 09 2006	8"	19mmW	VL,NO COMPRESSION,R=F	
IC	257		Galaxy S0-		
	Oct 10 2012	18"	8.8 ES	PF,S,OVAL,UB,NND,R=G	
IC	284		Galaxy SAdm		
	Oct 10 2012	18"	8.8 ES	PF,S,OVAL,MEXT,UB,NND,AV,R=F	
	Nov 21 2006	8"	11mmT6	VF,S,OVAL,NND,AV,R=F	
	Nov 09 2004	8"	7.5mmW	VF,EL,OVAL,NND,AV,R=F	
IC	293		Galaxy E-S0		
	Dec 13 2012	18"	7mm TV	VF,VS,R,UB,NND,R=F	
IC	301		Galaxy E		
	Dec 13 2012	18"	8.8 ES	PF,PS,R,FNUC,AV,R=F,NUCLEUS POPS IN/OUT WITH AV.	
	Oct 10 2012	18"	8.8 ES	DIFF,PF,PS,R,UB,NND,R=F	
IC	309		Galaxy SA(s)0^		
	Dec 13 2012	18"	7mm TV	PF,PS,R,FNUC,R=F	
IC	348		Open Cluster 10.0 III 2 p n		
	Nov 09 2004	8"	11mmT6	LOOSE GROUP - NOT MANY STARS	
IC	351		Planetary Neb 2a		
	Dec 18 2006	31"	20mmUV	PB,VS,R,R=G	
IC	1907		Galaxy E?		
	Nov 10 2012	18"	7mm TV	DIFF,VF,PS,R,UB,NND,R=F	
	Oct 07 2010	12"	5.5mmN	CF,CS,R,UB,NND,R=F,AV-1	
IC	2003		Planetary Neb 2		
	Dec 18 2006	31"	20mmUV	B,VS,R,R=G	
MAC	0310+4200		Galaxy		
	Dec 13 2012	18"	8.8 ES	VFR,VS,R,NND,AV3,R=P	
NGC	650	M76	H193-1	Planetary Neb 3+6	VB,P OF DNEB
	Oct 09 2018	12"	8mm Et	F,S,R=E. LP2	
	Mar 16 2012	18"	17mmAT	2012 M.M.	
	Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
	Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
	Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
	Oct 01 2006	1.9"	12x50	PF,PS,R,R=F	
	Jul 24 2006	8"	11mmT6	PF,L,R,R=G	
	Mar 19 2006	8"	19mmW	PF,L,VLE,R=G	

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NGC 650	M76	H193-1	Planetary Neb 3+6	VB,P OF DNEB
Dec 01 2004 31"	11mmT6	VB,HISB,R=E, SOLO EFFORT		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 744			Open Cluster 10.0 III 1 p	CL,PL,PRI,IF,*11..13
Oct 09 2007 8"	11mmT6	PF,PL,TIGHTER GROUP, R=F		
NGC 869		H33-6	Open Cluster 6.6 I 3 r	CL,VVL,VRI,*7...14
Oct 09 2018 12"	35mm A	BEST CLUSTER OF THE NIGHT, DOUBLE CLUSTER		
Jan 25 2018 12"	35mm A	NICE OBJECT		
Sep 24 2016 12"	17mmT4	GREAT OBJECT.		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	35mm A			
Oct 21 2012 8"	25mmPL	NICE BUT NOT AS NICE AS WRO		
Oct 12 2012 18"	35mm A	DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2006 8"	19mmW	B,L,LOOSE,R,R=G		
Oct 13 2006 1.9"	12x50	PB,PL,R=G		
Oct 01 2006 1.9"	12x50	B,L,R=G, TIGHT GROUP		
Sep 01 2005 8"	7.5mmW	VB,R,R=G. BEAUTY - DOUBLE CLUSTER		
Oct 31 2004 1.9"	12x50	VERY NICE IN BINOCULARS		
Dec 31 2003 8"	25mmPL	H/M COLD		
NGC 884		H34-6	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
Oct 09 2018 12"	35mm A	BEST CLUSTER OF THE NIGHT. DOUBLE CLUSTER		
Jan 25 2018 12"	35mm A	NICE OBJECT		
Sep 24 2016 12"	17mmT4	GREAT OBJECT.		
Dec 05 2015 12"	17mmT4			
Aug 21 2015 12"	35mm A			
Oct 21 2012 8"	25mmPL	NICE BUT NOT AS NICE AS WRO		
Oct 12 2012 18"	35mm A	DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2006 8"	19mmW	B,L,COMPRESSED,R,R=G		
Oct 13 2006 1.9"	12x50	PB,PL,R=G		
Oct 01 2006 1.9"	12x50	PB,PL,R=G, LITTLE LOOSER		
Sep 01 2005 8"	7.5mmW	VB,R,R=G. BEAUTY - DOUBLE CLUSTER		
Oct 31 2004 1.9"	12x50	VERY NICE IN BINOCULARS		
Dec 31 2003 8"	25mmPL	H/M COLD		
NGC 957			Open Cluster 11.0 III 2 m	CL,PL,PRI,*13...15
Oct 09 2007 8"	11mmT6	PF,PS,TIGHTER GROUP, R=F		
NGC 1003		H238-2	Galaxy SA(s)cd	PF,L,E90,MBM,R
Nov 09 2004 8"	7.5mmW	VF,EL,EON,NND,AV,R=G		
NGC 1023		H156-1	Galaxy SB(rs)0-	VB,VL,VME,VVMBM

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NGC 1023		H156-1	Galaxy SB(rs)0-	VB,VL,VME,VVMBM
Sep 09 2010 12"	17mmAT	B,S,EON,BNUC,R=G,PA=165		
Oct 10 2004 8"	11mmT6	MB,EL,RNUC,R=G		
NGC 1039	M34		Open Cluster 9.0 II 3 r	CL,B,VL,LC,SC ST9
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Oct 29 2006 1.9"	12x50	B,L,R,R=G		
Mar 19 2006 8"	25mmPL	PB,PL,R=G. SCATTERED STARS		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 1050			Galaxy (R')SB(s)a	F,S,*18INV N
Oct 25 2009 12"	7.5mmW	VF,VS,OVAL,UB,NND,AV,R=F		
NGC 1053			Galaxy S0	VF,VS,LE,3OR4*LINENR
Oct 25 2009 12"	7.5mmW	VF,S,OVAL,UB,NND,R=F		
NGC 1058		H633-2	Galaxy SA(rs)c	PF,CL,R,GLBM
Nov 09 2004 8"	7.5mmW	VF,OVAL,NND,AV,R=F		
NGC 1077			Non-Existent	VF,PL,E
Oct 31 2010 12"	5.5mmN	VF,CS,OVAL,NND,AV4,R=F		
NGC 1086			Galaxy Scd:	VF,PS,D* NR
Oct 25 2009 12"	7.5mmW	VF,S,OVAL,NND,R=F		
NGC 1106			Galaxy SA0+	VF,VS,VF*ATT S
Oct 25 2009 12"	7.5mmW	F,S,OVAL,UB,NND,R=F		
NGC 1122		H601-2	Galaxy SBb	VF,PS,R,*NR N
Oct 25 2009 12"	7.5mmW	F,S,OVAL,PATCHY,NND,R=F		
NGC 1129		H602-2	Galaxy E	CF,PS,IR,VGLBM, F*SP
Nov 09 2004 8"	7.5mmW	VF,EL,NND,AV,RF=F		
NGC 1138		H580-3	Galaxy SB0	VF,VS,R,GBM,2S* TRI
Oct 31 2010 12"	5.5mmN	PF,PS,R,UB,NND,R=F. STAR IN FRONT.		
NGC 1160		H199-3	Galaxy Scd:	F,E
Oct 25 2009 12"	7.5mmW	VF,VS,EL,OVAL,NND,AV,R=F		
NGC 1161		H239-2	Galaxy S0	F,PS,LE,SBM
Oct 25 2009 12"	7.5mmW	PF,PS,OVAL,FNUC,R=F		
Nov 09 2004 8"	7.5mmW	MB,EL,EON,FNUC,MSB,R=G		

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

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

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

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

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

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PGC 14034

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

Galaxy S?

PGC 14152

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

Galaxy S0

PGC 14276

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

Galaxy Scd:

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

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

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

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NGC 522		Galaxy Sbc: sp	EF,PL,IF,(CL+NEB)
Dec 12 2012 36"	17mmT4	PF,PS,,EON,UB,NND,R=G,PA=45,SLIGHT BULGE	
NGC 524		H151-1 Galaxy SA(rs)0+	VB,PL,MBM,4S*NR
Nov 21 2006 8"	11mmT6	PF,S,R,NND,R=F	
Aug 21 2004 8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
NGC 525		Galaxy S0	VF,VS,*11.12P5S
Dec 12 2012 36"	17mmT4	PF,PS,OVAL,MEXT,UB,NND,R=F	
NGC 628	M74	Galaxy SA(s)c	GCL,F,VL,R,VG,PSMBM
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Oct 29 2006 1.9"	12x50	B,CS,OVAL,FNUC,R=G	
Oct 06 2004 8"	11mmT6	F,PL,R,NND,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
NGC 660		H253-2 Galaxy SB(s)a pec	PB,PL,E,BM,R
Oct 09 2007 8"	11mmT6	PF,PL,EL,OVAL,NND,R=F	
NGC 665		H588-2 Galaxy (R)S0^?	F,S,LE,BM,R
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,BNUC,R=G	
Nov 10 2007 31"	17mmT4	PB,PL,OVAL,BNUC,R=G	
NGC 676		H42-4 Galaxy S0/a: sp	VF,E161,SBM*9
Oct 09 2007 8"	11mmT6	PF,PS,EON,NND,AV,R=F	
NGC 706		H596-2 Galaxy Sbc?	F,S,BM,*13N1'
Nov 10 2007 31"	17mmT4	PF,PL,OVAL,UB,NND,R=F	
NGC 718		H270-2 Galaxy SAB(s)a	PB,S,IR,PSMBM
Oct 09 2007 8"	11mmT6	PF,PS,R,UB,NND,R=F	
NGC 741		H271-2 Galaxy E0:	PF,S,R,POF2,POS102
Oct 09 2007 8"	11mmT6	PF,PS,R,UB,NND,R=F	
NGC 7458		H590-2 Galaxy E	CF,CS,PSBM
Sep 19 2014 18"	8mm Ds	PF,PS,R,FNUC,R=G, WRO - 9/19/14	
NGC 7506		H184-3 Galaxy (R')SB(r)0+:	CF,VS,R,SBM*15
Sep 19 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F, WRO - 9/19/14	
NGC 7537		H429-2 Galaxy SAbc:	VF,CS,R,BM,SP OF 2
Oct 09 2007 8"	11mmT6	PF,PS,EON,NND,R=F	
NGC 7541		H430-2 Galaxy SB(rs)bc: pec	B,L,ME97,MBM,NF OF 2
Oct 09 2007 8"	11mmT6	PB,PS,EON,UB,NND,R=F	

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

Pisces - The Fishes

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

Puppis - The Stern of The Argo

NGC 2396		H36-8	Open Cluster 11.0 IV 1 m	CL,VL,VLC
Mar 28 2011 12"	11mmT6	PF,PS,LOOSE,R=F		
NGC 2414		H37-8	Open Cluster 8.2 I 3 m	CL,P,LC,ST9,\$C
Mar 28 2011 12"	11mmT6	F,PS,R=F,TIGHT		
NGC 2421		H67-7	Open Cluster 11.0 I 2 r	CL,L,CRI,*11...13
Mar 13 2007 8"	19mmW	F,PL,R=F,DIM PATCH		
NGC 2422	M47	H38-8	Open Cluster 5.0 I 3 m	CL,B,VL,PRI,ST L\$\$
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 19 2006 8"	25mmPL	PB,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 2423		H28-7	Open Cluster 9.0 II 2 m	CL,VL,RI,PC,ST VS
Mar 13 2007 8"	19mmW	F,PL,R=G,DIM PATCH		
NGC 2432		H36-6	Open Cluster II 2 m	CL,PL,PC,E0,ST L\$\$
Mar 28 2011 12"	11mmT6	F,S,R=F,TIGHT IN A LINE		
NGC 2437	M46		Open Cluster 10.0 II 2 r	CL,VB,VRI,VL,INV PLN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 19 2006 8"	25mmPL	B,ML,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 2438		H39-4	Planetary Neb 4+2	PLN,PB,PS,VLE,R
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
Mar 13 2007 8"	7.5mmW	VF,VS,R=F, NO CENTRAL STAR		
NGC 2440		H64-4	Planetary Neb 5+3	PLN,CB,NOT VWELL DEF
Feb 17 2012 18"	7mm TV	OIII FILTER - VERY NICE PLANETARY		
Mar 13 2007 8"	7.5mmW	F,PS,R=F,IRREGULAR IN SHAPE		
NGC 2447	M93		Open Cluster 9.0 I 3 r	CL,L,PRI,LC,ST8...13
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 19 2006 8"	25mmPL	B,FS,R=G. SMALL TIGHT GROUP		

Puppis - The Stern of The Argo

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

Pyxis - The Compass

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

Reticulum - The Reticle

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

Sculptor - The Sculptor

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

Scorpius - The Scorpion

IC 4592		Nebula R	
Jul 21 2007 1.9"	12x50	PF,PL,JUST DETECTED,R=F	
NGC 6000		Galaxy SB(s)bc:	VF,S,R,SBM
Jun 14 2007 8"	11mmT6	CF,CS,R,NND,AV,R=F	
NGC 6093	M80	Globular	GCL,VB,L,VMBM(VAR*)
Jul 01 2016 12"	8mm Et	B,F,R=G	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 20 2006 1.9"	12x50	PF,S,R=F	
Mar 27 2006 8"	19mmW	VB,S,R=G,TIGHT GROUP	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 6121	M4	Globular	CL,8OR1OB*LINE,RRR
Jul 02 2017 12"	17mmT4	WASHED OUT. MOON NINE DAYS OLD.	
Aug 07 2016 12"	8mm Et	BRIGHT, LARGE,R=E	
May 30 2016 12"	8mm Ds	F,L,R=G	
Jul 15 2015 12"	8mm Ds	EYE CANDY TO START	
May 23 2015 12"	11mmT6	EYE CANDY	
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jul 13 2013 18"	7mm TV	MORE EYE CANDY	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Jul 04 2011 12"	17mmT4	GOOD LOOKING	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 12 2006 1.9"	12x50	PF,VL,R,R=G	
Mar 27 2006 8"	19mmW	B,L,R=G,LOOSELY PACKED	
Aug 14 2004 8"	11mmT6		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL	
NGC 6124		Open Cluster 9.0 I 3 r	CL,B,L,PRI,LCM,*9.11
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6139		Globular	B,PL,R,PSBM,RR
Jul 01 2016 12"	8mm Et	F,S,R=P, LOW ON HORIZON.	
Jul 03 2005 8"	11mmT6	VF,VS,R,R=F	
NGC 6144	H10-6	Globular	CL,CL,MC,GBM,RRR
Jul 01 2016 12"	8mm Et	F,L,R=G	
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jun 05 2011 12"	17mmT4	NICE GLOB.	
Jul 03 2005 8"	11mmT6	VF,VS,R,AV,R=F	

Scorpius - The Scorpion

NGC 6153		Planetary Neb 4	PLN,STELLAR
Jul 14 2010 12"	7.5mmW	PF,CS,R,R=F, NO CENTRAL STAR OBSERVED.	
NGC 6256		Globular	GCL,VF,VL,IR,VGBM
Jul 01 2016 12"	7mm TV	V,S,R=F	
Aug 20 2006 8"	7.5mmW	VF,VS,AV,R=F	
NGC 6302		Planetary Neb 6	PB,E PF,(SWIFT,TRIP)
Jul 07 2018 12"	8mm Et	PB,S,R=E. OIII FILTER	
Jul 09 2005 8"	11mmT6	MB,VS,R,R=G	
NGC 6337		Planetary Neb 4	RINGNEB,EF,S,AM ST
Jul 31 2011 12"	7mm TV	F,VS,,R=F,SMUDGE WITH TWO FOREGROUND STARS	
NGC 6380		Globular	EF,PS,LE,*9ATT
Aug 20 2006 8"	7.5mmW	VF,VS,R=F	
NGC 6405	M6	Open Cluster 5.5 II 3 r	CL,L,IR,LC,ST7,10...
Jul 07 2018 12"	8mm Et	PB,L,R=E	
Jul 05 2016 12"	17mmAT	VERY NICE O.C. LP2 FILTER SHOWS SOME RELATED NEBULOSITY	
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	VB,VL,R=G	
Mar 27 2006 8"	19mmW	F,S,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6441		Globular	GCL,VB,PL,R,VGMBM,
Jul 15 2006 8"	19mmW	PB,CS,R=G,TIGHT GROUP, UNRESOLVABLE	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
NGC 6451		H13-6	Open Cluster 12.0 I 2 r n
Jul 23 2006 8"	11mmT6	PB,PL,R=G,DENSE GROUP	CL,PL,PRI,BIFID,ST12
Jul 09 2005 8"	11mmT6	R=G. LOOSE GROUP W/MANY STARS	
NGC 6453		Globular	CL,IR,PMBM,R
Jul 03 2005 8"	11mmT6	VF,VS,R,R=F	
NGC 6475	M7	Open Cluster 7.0 I 3 r	CL,VB,PRI,LC,*7...12
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	VB,EL,R=E	
Mar 27 2006 8"	19mmW	B,L,R=F	

Scorpius - The Scorpion

NGC 6475	M7	Open Cluster 7.0 I 3 r	CL,VB,PRI,LC,*7...12
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6480		Non-Existent	NEBSPART OFMILKY WAY
Jul 03 2005 8"	11mmT6	VF,VS,R=F	
TER 2		Globular	
Oct 29 2006 8"	19mmW	PF,PS,LOOSE,R=F	
TER 3		Globular	
Nov 26 2006 1.9"	12x50	B,PL,LOOSE,RESOLVESTARS,R=G	
Nov 09 2006 8"	19mmW	12+,FAINT,R=F	

Scutum - The Shield

NGC 6625			Open Cluster IV 3 m n	CL,LC,LRI,ST11...12
Aug 13 2007 31"	31mmT5	PB,L,R=F, SOME NEBULOSITY		
NGC 6631			Open Cluster II 1 m	CL,PL,PRI,ST12...15
Aug 13 2007 31"	31mmT5	PB,PS,MORE STARS, CONDENSED,R=F		
NGC 6639			Open Cluster	CL,IN MILKY WAY
Aug 13 2007 31"	31mmT5	PB,PS,R=F, SOME NEBULOSITY		
NGC 6649			Open Cluster 13.2 I 3 m	CL,P,LC,PS,*9,10,12.
Aug 13 2007 31"	31mmT5	B,PS,R=G,SOME NEBULOSITY,CARBON STR.		
NGC 6664		H12-8	Open Cluster 9.0 III 2 m	CL,L,PRI,VLC
Aug 13 2007 31"	31mmT5	B,L,R=G		
Mar 18 2007 8"	11mmT6	B,L,LOOSE GROUP,R=F		
NGC 6682			Open Cluster star clou	CL,L,RI,ST10...18
Aug 13 2007 31"	31mmT5	PB,EL,R=G. MASSIVE CLUSTER		
NGC 6683			Open Cluster 11.7 II 1 p n	CL,VRI,VLC,IN M WAY
Aug 13 2007 31"	31mmT5	B,PS,R=G, SOMEWHAT DENSE		
NGC 6694	M26		Open Cluster 11.0 II 3 m	CL,CL,PRI,PC,ST12.15
Jul 08 2018 12"	17mmT4	B,S,R=G		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Aug 16 2006 1.9"	12x50	PB,L,R=G		
Mar 27 2006 8"	19mmW	F,S,R=F		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
NGC 6704			Open Cluster 12.0 I 2 m	CL,B,60ST13
Aug 13 2007 31"	31mmT5	PB,S,R=G		
NGC 6705	M11		Open Cluster 11.0 I 2 r	CL,VB,L,IR,RI,*9,
Jul 08 2018 12"	17mmT4	B,S,R=G. FULL OF STARS		
Jul 19 2017 12"	17mmT4	VERY NICE. FULL OF STARS. R=G		
Jul 15 2015 12"	17mmT4			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Aug 12 2006 1.9"	12x50	B,L,R=G		
Mar 27 2006 8"	19mmW	B,L,R=G		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
NGC 6712		H47-1	Globular	GCL,PB,VL,IRR,RRR
Aug 13 2007 31"	31mmT5	PB,PS,R=G, RESOLVE OUTER STARS		

Scutum - The Shield

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

Serpens - The Serpent

IC 1276			Globular	
Jul 09 2005 8"	11mmT6	VF,ML,R=F		
IC 4756			Open Cluster 8.0 II 3 r	
Sep 19 2014 12"	17mmAT	B,L,R=G,LOOSE, HOME - 8/14/14		
Jun 20 2007 1.9"	12x50	F,PL,R=F		
NGC 5904	M5		Globular	GCL,VB,L,ECM,*11..15
Jul 02 2017 12"	17mmT4	CAN RESOLVE SOME STARS.		
May 30 2016 12"	8mm Ds	1ST OBJECT TONIGHT		
May 23 2015 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50	B,S,R=G		
Mar 27 2006 8"	19mmW	B,L,R=G,DENSE, RESOLVE OUTER STARS		
May 04 2005 8"	11mmT6	VB,VL,R=E!!		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
NGC 5921		H148-1	Galaxy SB(r)bc	CB,CL,IR,VSBM*12,AM*
May 30 2011 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
Sep 05 2007 8"	11mmT6	PF,PL,OVAL,NND,R=F		
NGC 5928		H874-2	Galaxy S0	PB,CS,R,PSBM,*7N
May 30 2011 12"	7mm TV	PF,CS,R,UB,NND,R=F		
NGC 5936		H130-2	Galaxy SB(rs)b	F,PL,IR,VGBM,R
Sep 05 2007 8"	11mmT6	PF,VS,R,NND,AV,R=F		
NGC 5953		H178-2	Galaxy SAa: pec	PB,CS,P OF D NEB
May 30 2011 12"	7mm TV	PF,PS,R,UB,NND,R=F		
NGC 5954		H179-2	Galaxy SAB(rs)cd: pec	PB,CS,F OF D NEB
May 30 2011 12"	7mm TV	PF,CS,OVAL,PEXT,UB,NND,R=F		
NGC 5962		H96-2	Galaxy SA(r)c	PF,PL,ILE,GBM
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
NGC 5964			Galaxy SB(rs)d	EF,VL,R,VGBM,R
May 30 2011 12"	7mm TV	DIFF,CF,PS,OVAL,UB,NND,R=F		
NGC 5970		H76-2	Galaxy SB(r)c	PF,PL,R,RR
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,AV,R=F		
NGC 5990		H425-2	Galaxy (R')Sa pec?	VF,VS,R,GBM

Serpens - The Serpent

NGC 5990		H425-2	Galaxy (R')Sa pec?	VF,VS,R,GBM
May 30 2011 12"	7mm TV	CF,CS,OVAL,UB,NND,R=F		
NGC 5996		H97-2	Galaxy S?	PF,CS,R,R,BET 2D*
May 30 2011 12"	7mm TV	PF,PS,OVAL,UB,NND,R=P		
NGC 6012		H657-2	Galaxy (R)SB(r)ab:	F,BET 2B ST
May 30 2011 12"	7mm TV	PF,PS,OVAL,UB,NND,R=F		
NGC 6070		H553-3	Galaxy SA(s)cd	F,L,PME,VGBM,R
Sep 05 2007 8"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 6118		H402-2	Galaxy SA(s)cd	VF,CL,CE45,R
May 30 2011 12"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F		
Jul 24 2006 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
NGC 6535			Globular	PF,VS,VSNEB*P
Jul 09 2005 8"	11mmT6	MF,ML,R=G		
NGC 6539			Globular	NO DESCRIPT
Jul 09 2005 8"	11mmT6	VF,ML,R=F		
NGC 6604		H15-8	Open Cluster 7.5 I 3 m n	CL,LRI,LC
Sep 05 2007 8"	11mmT6	F,S,R=F		
NGC 6605			Open Cluster asterism	CL,LRI,LC,ST10...12
Jun 20 2007 1.9"	12x50	PF,PS,R,R=F		
NGC 6611	M16		Open Cluster 11.0 II 3 m n	CL,ATLEAST100* L\$\$
Jul 07 2018 12"	8mm Et	B,L,R=E. OIII FILTER		
Jul 19 2017 12"	17mmT4	LP2 FILTER HELPS A BIT		
Jul 23 2016 12"	8mm Et	USED LP2 & LP3. BETTER VIEW WITH LP3 (OIII).		
Aug 21 2015 12"	17mmT4			
Jul 15 2015 12"	17mmT4			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Sep 13 2009 12"	32mmUV	6TH OBJECT		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50	PB,PL,R=G		
Mar 27 2006 8"	19mmW	L,B,R=G		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
PAL 5			Globular	
Jul 01 2016 12"	8mm Et	VF,S,R=F		
Jun 09 2007 8"	7.5mmW	VF,VS,AV,R=F		
Jun 04 2005 31"	17mmT4	VF,VS,R,AV,R=F		

Serpens - The Serpent

PGC 54559**Galaxy**

Jun 22 2012 18" 8.8 ES VF,VS,R,,NND,AV-4,R=P, HOAG'S OBJECT, NO RING OBSERVED

Sextans - The Sextant

NGC 2974**H61-1****Galaxy E4****B,CS,IR,BM,*9SP43"**

Mar 13 2007 8" 11mmT6 PF,PS,OVAL,NND,R=F

NGC 3044**H254-3****Galaxy SB(s)c? sp****VF,VL,VME122**

Mar 30 2014 28" 7mm TV SUPER WITH IMAGE INTENSIFIER. SOME DETAIL IN CORE DEFINITION COMES AND GOES

Mar 30 2014 18" 7mm TV B,PS,EON,UB,NND,R=G,PA=145,REALLY NICE

NGC 3115**H163-1****Galaxy S0- sp****VB,L,VME46,VGSMBMEN**

Mar 15 2005 8" 11mmT6 VB,ML,EL,EON, FNUC,MSB,R=G

NGC 3156**H255-3****Galaxy S0:****F,CS,R,PSBM,*9,10SF2**

Mar 28 2011 12" 7mm TV PF,CS,OVAL,PEXT,FNUC,R=G,PA=45

NGC 3166**H3-1****Galaxy SAB(rs)0/a****B,PS,R,PSMBM,2ND OF3**

Mar 13 2007 8" 11mmT6 CB,CL,OVAL,FNUC,MHISB,R=G

Apr 14 2004 8" 25mmPL CLEAR NIGHT - MEGASTAR CONTROL

NGC 3169**H4-1****Galaxy SA(s)a pec****B,PL,VLE,PGMBM,3RD-3**

Mar 13 2007 8" 11mmT6 CB,CL,OVAL,FNUC,R=G

Apr 14 2004 8" 25mmPL CLEAR NIGHT - MEGASTAR CONTROL

NGC 3365**Galaxy Scd: sp****EF,L,EE159,VGVLBM**

Mar 30 2014 18" 7mm TV PF,PS,EON,UB,NND,R=F,PA=150

NGC 3423**H6-4****Galaxy SA(s)cd****F,VL,R,VGBM,RR**

Mar 15 2005 8" 11mmT6 VF,ROUND,NND,AV,R=F

PGC 28913**Galaxy IB(s)m**

Mar 15 2005 8" 11mmT6 MB,VS,OVAL,NND,AV,R=F

PGC 31037**Galaxy SBd:**

May 25 2014 18" 8mm Ds PF,PS,EON,UB,NND,R=F,PA=150

Sagitta - The Arrow

IC	4997		Planetary Neb 1	
Sep 01 2008	31"	17mmT4	PB,ES,R=F. NO CENTRAL STAR	
NGC	6838	M71	Globular	CL,VL,VRI,PMC,*11.16
Jul 08 2018	12"	17mmT4	B,S,R=G	
Jul 19 2017	12"	11mmT6	F,S,R=G. LOOKED BETTER THAN M56	
Sep 02 2016	12"	8mm Et	NOT BAD. HAVEN'T LOOKED AT THIS ONE IN A WHILE.	
Oct 21 2012	8"	11mmT6	F,S,R=G, ANOTHER SURPRISE UNDER THE STREETLIGHTS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Sep 01 2008	31"	17mmT4	PB,PS,USB,R=G, NICE GLOBULA	
Aug 20 2006	1.9"	12x50	F,L,R=F	
Mar 27 2006	8"	19mmW	DIFF,F,L,R=F, LOOSELY PACKED	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC	6886		Planetary Neb 2+3	PLN,STELLAR=10M
Sep 01 2008	31"	17mmT4	PB,VS,R=F. NO CENTRAL STAR	
PAL	10		Globular	
May 21 2009	16"	11mmT6	VF,PS,AV,R=F UNRESOLVED.	

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ESO 456-38		Globular	
Jul 13 2007 8"	7.5mmW	PB,PS,RESOLVE OUTER STARS,R=G	
Jul 09 2005 8"	11mmT6	VF,VS,R=F	
IC 1283		Nebula E+R	
Sep 05 2007 8"	11mmT6	F,PL,R=F	
IC 4673		Planetary Neb 4	
Sep 05 2007 8"	11mmT6	VF,VS,NO CENTRAL STAR,R=F	
IC 4715		Non-Existent	
Aug 21 2015 12"	35mm A		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	B,PL,R=G	
Mar 27 2006 8"	19mmW	R=F	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
IC 4725	M25	Open Cluster 8.0 I 3 m	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 12 2006 1.9"	12x50	B,L,R=G	
Mar 27 2006 8"	19mmW	S,R=F	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
IC 4732		Planetary Neb 1	
Sep 05 2007 8"	11mmT6	VF,ES,AV,NO CENTRAL STAR,R=F	
IC 4776		Planetary Neb 2a	
Aug 24 2012 18"	8.8 ES	PF,PS, R=F, OIII FILTER,	
NGC 6440		H150-1	Globular
Jul 08 2018 12"	17mmT4	CAN'T RESOLVE STARS. SAME FOV AS NGC-6445	PB,PL,R,BM
Jul 13 2007 8"	11mmT6	PF,CS,ALMOST RESOLVE STARS,R=G	
Jul 15 2006 8"	19mmW	CF,CS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6445		H586-2	Planetary Neb 3b+3
Jul 08 2018 12"	17mmT4	B,S,R=G.	PB,PS,R,GBM,R,*15NP
Jul 09 2005 8"	11mmT6	MB,ML,MSB,R=G	
NGC 6469		Open Cluster IV 2 m	CL,PRI,IN MILKY WAY
Jul 21 2007 1.9"	12x50	PF,PS,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6494	M23	Open Cluster 10.0 II 2 r	CL,B,VL,PRI,LC,*10..

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NGC 6494	M23		Open Cluster 10.0 II 2 r	CL,B,VL,PRI,LC,*10..
Jul 08 2018 12"	8mm Et	B,=RG		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50	B,PL,R=G, RESOLVE OUTER STARS		
Aug 12 2006 1.9"	12x50	B,L,R=G		
Mar 27 2006 8"	19mmW	L,R=F		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
NGC 6507		H53-8	Open Cluster 12.0 IV 3 m	CL,PS,LRI,LC
Aug 20 2006 8"	7.5mmW	PF,PS,R=F,STARS AT SW CORNER		
NGC 6514	M20	H41-4	Nebula EN+OC	VB,VL,TRIFID,D*INV
Jul 07 2018 12"	8mm Et	PB,R=E. USED OIII FILTER		
Jul 19 2017 12"	17mmT4	LP2 FILTER HELPS A BIT.		
Jul 19 2017 12"	27m PN	LOOKS MUCH BETTER WITH 27MM PANOPTIC.		
Jul 05 2016 12"	17mmAT	BEAUTIFUL,R=E!!, LP2 FILTER		
Aug 15 2015 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 12 2006 1.9"	12x50	VB,VL,R=E		
Mar 27 2006 8"	19mmW	B,L,FEW STARS,NEBULASITY OK,R=G		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
NGC 6520		H7-7	Open Cluster 9.0 I 2 r n	CL,PS,RI,LC,ST9...13
Oct 08 2006 1.9"	12x50	PF,S,R=F		
Jul 09 2005 8"	11mmT6	VB,R=G. NICE CLUSTER - BRIGHT		
NGC 6522		H49-1	Globular	GCL,B,PL,R,GVMBM,RRR
Jul 05 2016 12"	8mm Et	F,S,R=G, SAME FIELD AS NGC-6528		
Jul 15 2006 8"	19mmW	PB,S,R=F		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
NGC 6523	M8		Nebula E	VB,EL,EIF,W/LCL
Jul 05 2016 12"	17mmAT	VERY NICE,R=E!,LP2 FILTER		
Aug 21 2015 12"	17mmT4			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 12 2006 1.9"	12x50	VB,VL,EXTENDED,R=E		
Mar 27 2006 8"	19mmW	B,PL,R=G,MORE STARS		
Aug 14 2004 8"	11mmT6			

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NGC 6523	M8	Nebula E	VB,EL,EIF,W/LCL
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6526	H9-5	Nebula E	F,L,CE
Jul 19 2011 12"	11mmT6	F,L, EBULOSITY, INTERMITENT DARK BAND, OIII DIDN'T SEEM TO HELP.	
NGC 6528	H200-2	Globular	GCL,PF,CS,R,GBM,RRR
Jul 05 2016 12"	8mm Et	PF,PS,R=G, SAME FIELD AS NGC-6522	
Jul 15 2006 8"	19mmW	CF,CS,R=G	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6530		Open Cluster 6.0 II 2 m n	CL,B,L,PRI,FM8
Jul 25 2011 12"	32mmUV	B,L,R=E, LP-2 FILTER.	
Sep 05 2007 8"	11mmT6	PB,PL,SOME NEBULOSITY,R=F	
NGC 6531	M21	Open Cluster 8.0 I 3 r	CL,PRI,LC,ST9...12
Jul 08 2018 12"	8mm Et	B,R=G	
Jul 05 2016 12"	17mmAT	NICE OPEN CLUSTER,R=G	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 12 2006 1.9"	12x50	B,S,R=F	
Mar 27 2006 8"	19mmW	B,S,R=G	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6537		Planetary Neb 2a+6	PLN,B,S,STELLAR
Aug 12 2005 8"	7.5mmW	VF,VS,AV,R=F	
NGC 6540	H198-2	Globular	PF,S,IE,ER OR CL
Jul 05 2016 12"	8mm Et	F,PS,R=F, ALMOST LOST IN HEAVY STAR FIELD	
Jul 13 2007 8"	7.5mmW	VF,VS,PATCHY,R=F	
Jul 09 2005 8"	11mmT6	R=F. LOOSE GROUP, FEWER STARS	
NGC 6544	H197-2	Globular	CF,PL,IR,R
Jul 05 2016 12"	8mm Et	PF,S,R=F	
Jul 15 2006 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
Aug 14 2004 8"	11mmT6		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6546		Open Cluster 10.6 II 1 r	CL,VL,VRI
Aug 12 2005 8"	7.5mmW	MB,MS,R=F	
NGC 6553	H12-4	Globular	GCL,F,L,LE,VGLBM,RR
Jul 05 2016 12"	8mm Et	PF,S,R=G	
Jul 15 2006 8"	19mmW	PF,PS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	

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NGC 6558		Globular	GCL,PB,PL,R,GLBM,RRR
Jul 05 2016 12"	8mm Et	PF,PS,R=F,CAN' RESOLVE STARS	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6563		Planetary Neb 3a	PLN,F,L,CE,HAZY EDGE
Aug 29 2010 12"	7mm TV	PF,PS,R=F. NO CENTRAL STAR NOTED	
NGC 6567		Planetary Neb 2a+3	PLN,STELL,11M,IN ACL
Sep 05 2007 8"	11mmT6	VF,PS,NO CENTRAL STAR,R=F	
NGC 6568		H30-7 Open Cluster IV 1 m	CL,VL,LC
Jul 09 2005 8"	11mmT6	MB,R=G. NICE, BRIGHT CLUSTER	
NGC 6569		H201-2 Globular	GCL,CB,L,R,RRR,*15..
Jul 05 2016 12"	8mm Et	F,S,R=F,CAN'T RESOLVE STARS	
Jul 15 2006 8"	19mmW	F,CS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6583		H31-7 Open Cluster I 2 m	CL,PRI,PC,CE,ST13...
Jul 23 2006 8"	11mmT6	CF,S,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6590		Nebula R	D*CENTRE PF,PL,RNEBY
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6595		Nebula III 3 m n	F,PL,CE,**INV
Sep 05 2007 8"	11mmT6	B,PS,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6596		H55-8 Open Cluster II 2 m n	CL,LC
Aug 18 2010 12"	11mmT6	PF,PS,R=F,LOOSE GROUP,NEBULOSITY NOTED IN MIDDLE	
NGC 6603	M24	Open Cluster 14.0 I 2	CL,VRI,VMC,R,M WAY
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 16 2006 1.9"	12x50	B,PL,R=G	
Mar 27 2006 8"	19mmW	R=F	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6613	M18	Open Cluster 8.7 II 3 p n	CL,P,VLC
Jul 08 2018 12"	17mmT4	B,S,R=G	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 16 2006 1.9"	12x50	B,L,R=F	
Mar 27 2006 8"	19mmW	R=F	

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NGC 6613	M18	Open Cluster 8.7 II 3 p n	CL,P,VLC
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6618	M17	Nebula EN+OC	B,EL,EIF,2HOOKED
Jul 08 2018 12"	17mmT4	B,L,R=E	
Jul 19 2017 12"	17mmT4	BETTER WITH 27 PANOPTIC	
Jul 19 2017 12"	27m PN	BEAUTIFUL WITH LP2 FILTER	
Aug 21 2015 12"	17mmT4		
Jul 13 2013 18"	7mm TV	THE SWAN - OIII FILTER	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Sep 13 2009 12"	32mmUV	7TH OBJECT	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	PB,PL,R=F	
Mar 27 2006 8"	19mmW	L,B,R=G	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6624	H50-1	Globular	GCL,VB,PL,R,RRR,ST16
Jul 05 2016 12"	8mm Et	F,PS,R=G,VERY NICE.	
Jul 16 2006 8"	19mmW	PF,PS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6626	M28	Globular	GCL,VB,L,R,GECLM,RRR
Jul 05 2016 12"	8mm Et	F,S,R=G	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006 1.9"	12x50	B,S,R=F	
Mar 27 2006 8"	19mmW	F,FS,R,R=G, TIGHT GROUP	
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6629	H204-2	Planetary Neb 2a	PLNORGCL,PB,EES,R
Jul 07 2018 12"	8mm Et	B,S,R=F. OIII FILTER	
Jul 09 2005 8"	11mmT6	VF,VS,AV,R=F	
NGC 6637	M69	Globular	GCL,B,L,R,RRR,*14.16
Jul 05 2016 12"	8mm Et	EXCELLENT	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 13 2007 31"	31mmT5	PB,PS,MORE STARS, CONDENSED,R=E	
Aug 20 2006 1.9"	12x50	F,S,R=F	
Mar 27 2006 8"	19mmW	F,S,R=F,TIGHT GROUP	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	

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NGC 6638		H51-1	Globular	GCL,B,S,R,RR
Jul 05 2016	12"	8mm Et	F,PS,R=F	
Jul 16 2006	8"	19mmW	CF,PS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6642		H205-2	Globular	GCL,PB,PL,IR,GPMBM
Jul 05 2016	12"	8mm Et	PF,PS,R=F	
Jul 16 2006	8"	19mmW	F,CS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6644			Planetary Neb 2	PLN,STELLAR
Sep 05 2007	8"	11mmT6	VF,VS,AV,R=F	
NGC 6645		H23-6	Open Cluster 12.0 IV 1 m	CL,PL,VRI,PC,ST11.15
Jul 16 2006	8"	19mmW	PB,PS,R=G	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6652			Globular	B,S,LE,RRR,ST15
Jul 05 2016	12"	8mm Et	NOTT BAD FOR NON-MESSIER GLOBULAR	
Jul 16 2006	8"	19mmW	CF,CS,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6656		M22	Globular	GCL,VB,VL,R,VRI,VMC
Jul 05 2016	12"	8mm Et	F,L,R=E!	
Jul 01 2016	12"	8mm Et	PB,PL,R=E!!	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Jul 04 2011	12"	11mmT6	FINE OBJECT	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 12 2006	1.9"	12x50	PB,PL,R,R=F	
Mar 27 2006	8"	19mmW	B,PL,R=G, RESOLVE OUTER STARS	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
NGC 6681		M70	Globular	GCL,B,PL,R,GBM,
Jul 05 2016	12"	8mm Et	VERY GOOD	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 20 2006	1.9"	12x50	PF,S,R=F	
Mar 27 2006	8"	19mmW	PF,PS,R=F,TIGHT GROUP	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6715		M54	Globular	GCL,VB,L,R,G,SMBM,
Jul 05 2016	12"	8mm Et	SMALL AND TIGHT,R=G	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Aug 16 2006	1.9"	12x50	PF,PS,R=F	
Mar 27 2006	8"	19mmW	PF,PS,R=F,TIGHT GROUP	

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NGC 6715	M54	Globular	GCL,VB,L,R,G,SMBM,
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6716		Open Cluster 8.3 IV 1 p	CL,PRI,ST9...13
Oct 08 2006 1.9"	12x50	F,S,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6717	H143-3	Globular	F,S,RR,CL+NEB
Jun 19 2004 8"	7.5mmW	GOOD NIGHT - MEGASTAR	
NGC 6723		Globular	GCL,VL,VLE,VGBM,RRR
Jul 16 2006 8"	19mmW	CF,PS,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6809	M55	Globular	GCL,PB,L,R,VRI,VGBM
Mar 16 2012 18"	17mmAT	2012 M.M.	
Aug 16 2006 1.9"	12x50	PF,L,R=F	
Mar 27 2006 8"	19mmW	VF,L,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
NGC 6818	H51-4	Planetary Neb 4	PLN,B,VS,R
Sep 19 2014 12"	11mmT6	B,S,ROUND DOT, HOME - 8/14/14	
Jul 09 2005 8"	11mmT6	VB,VS,R,R=G	
NGC 6822		Galaxy IB(s)m	VF,L,E,DIF
Sep 04 2004 8"	11mmT6	VF,L,OVAL,NND,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
NGC 6835		Galaxy SB(s)a? sp	F,PL,ME
Aug 12 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F	
NGC 6836		Galaxy SABm	VF,PL,R,DIF
Aug 12 2005 8"	7.5mmW	VF,VS,R,NND,AV,R=F	
NGC 6864	M75	Globular	GCL,B,PL,R,VMBMBN,RR
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Aug 16 2006 1.9"	12x50	PF,S,R=F	
Jul 16 2006 8"	19mmW	PF,PS,R=F	
Jul 09 2005 8"	11mmT6	PB,PL,R=G,TIGHT GROUP	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
PAL 8		Globular	
Jul 09 2005 8"	11mmT6	VF,ML,R,R=F	
TER 8		Globular	
Jul 31 2005 8"	11mmT6	VF,VS,R,LOWSB,R=F	

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TER 9

Globular

Aug 06 2010 28" 26mm PF,PS,SMUDGE, NO STARS RESOLVED

Taurus - The Bull

IC	329		Galaxy S?	
	Dec 13 2012 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
IC	330		Galaxy Sab	
	Dec 13 2012 18"	7mm TV	VF,VS,OVAL,PEXT,UB,NND,AV,R=F	
IC	331		Galaxy S?	
	Dec 13 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F	
IC	374		Galaxy	
	Dec 18 2006 31"	20mmUV	PF,S,EON,NND,R=F	
IC	1918		Galaxy	
	Dec 13 2012 18"	7mm TV	VF,VS,OVAL,UB,NND,AV,R=F	
IC	1931		Galaxy D	
	Dec 13 2012 18"	7mm TV	VF,VS,R,UB,NND,AV3,R=P	
IC	1995		Non-Existent	
	Nov 23 2006 8"	19mmW	F,PS,DIM PATCH,R=F	
M	45	M45	Open Cluster	
	Mar 16 2012 18"	17mmAT	2012 M.M.	
	Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
	Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
	Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
	Oct 29 2006 1.9"	12x50	VB,VL,LOOSE CLUSTER,R,R=G	
	Mar 19 2006 8"	25mmPL	PB,VL,R=E. PRETTY NICE	
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
	Dec 26 2003 8"	25mmPL	Q/M COLD	
	Dec 26 2003 8"	25mmPL	COMPTER = ARGO NAVIS	
MAC	0405+2526		Galaxy	
	Dec 18 2006 31"	20mmUV	VF,VS,EL,OVAL,NND,R=F	
MEL	25		Open Cluster	
	Nov 04 2007 1.9"	12x50	VB,VL,SCATTERED,R=G	
	Oct 29 2006 8"	19mmW	B,L,LOOSE,R,R=G	
	Dec 15 2004 8"	11mmT6	BRIGHT SCATTERED STARS	
NGC	1349		Galaxy S0	EEF,S,R,BET2*
	Dec 13 2012 18"	7mm TV	PF,PS,R,UB,NND,R=F	
NGC	1432		Nebula R	EF,VL,DIF, MAIA
	Oct 29 2006 1.9"	12x50	B,L,R=G	
	Mar 19 2006 8"	25mmPL	B,VL,IRREGULAR SHAPE,R=G	
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	

Taurus - The Bull

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

Taurus - The Bull

NGC 1817		H4-7	Open Cluster 9.0 IV 2 r	CL,L,RI,LC,ST11...14
Nov 04 2007 1.9"	12x50	B,S,PAIR W/NGC 1807,R=F		
Nov 09 2006 8"	19mmW	F,PS,R=F		
Dec 15 2004 8"	11mmT6	SMALL, MANY STARS R=G		
NGC 1952	M1		Nebula E	VB,VL,E135,VGLBM,R
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Dec 16 2009 12"	20mmUV			
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Oct 29 2006 1.9"	12x50	F,PS,R,R=F		
Mar 26 2006 8"	19mmW	DIFF,F,L,R=F		
Mar 19 2006 8"	19mmW	B,L,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
PGC 14253			Galaxy S IV	
Dec 18 2006 31"	20mmUV	VF,PS,R,NND,AV,R=F		
PGC 14314			Galaxy (R)SB(s)a	
Dec 18 2006 31"	20mmUV	F,PS,OVAL,NND,R=F		
PGC 14315			Galaxy (R')SAB(s)a	
Dec 18 2006 31"	20mmUV	VF,PS,R,NND,AV,R=F		

Triangulum - The Triangle

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

Triangulum - The Triangle

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

Triangulum - The Triangle

MAC 0228+3118			Galaxy		
Dec 19 2006 31"	17mmT4	VF,PS,R,NND,AV,R=F			
MAC 0234+3247			Galaxy		
Dec 19 2006 31"	17mmT4	PF,CS,R,NND,AV,R=F			
MAC 0234+3253			Galaxy		
Dec 19 2006 31"	17mmT4	VF,VS,R,NND,AV,R=F			
NGC 598	M33	H17-5	Galaxy SA(s)cd	EB,EL,R,VGBMN	6
Oct 09 2018 12"	35mm A	PB,VL,R=F, PRETTY	DIFFUSE.		
Aug 21 2015 12"	35mm A				
Oct 26 2014 12"	22mmAT	EYE CANDY			
Oct 21 2012 8"	25mmPL	LARGE AND FAINT AS ALWAYS			
Mar 16 2012 18"	17mmAT	2012 M.M.			
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES			
Mar 08 2010 12"	32mmUV	M.M. 2010 MANUAL SETTING CIRCLES			
Mar 20 2009 1.9"	12x50	MESSIER MARATHON - 2009			
Oct 29 2008 16"	20mmUV	LARGE, DIFFUSE PATCH			
Mar 17 2007 8"	25mmPL	M.M. BETWEEN CLOUDS			
Mar 19 2006 8"	19mmW	DIFF,L,F,OVAL,NND,R=F			
Oct 31 2004 1.9"	12x50	VB,ML,EON,LSB,R=G			
Oct 27 2004 31"	31mmT5	VB,ML,OVAL,HISB,R=E, LUNAR ECLIPSE			
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
Dec 26 2003 8"	25mmPL	Q/M COLD			
NGC 604		H150-3	Knot in Galaxy	B,VS,R,VVLBM	
Nov 10 2007 31"	17mmT4	VB,PS,COMPACT RECTANGULAR,R=G			
NGC 608			Galaxy S?	VF,PSBM,STELLAR	
Nov 24 2006 31"	20mmUV	B,S,OVAL,NND,R=G			
NGC 614		H174-3	Galaxy S0?	PF,PSBM,STELLAR	
Nov 24 2006 31"	20mmUV	PB,O,R,FNUC,R=G			
NGC 621			Galaxy SB0	VF,ES,R,BMN	
Nov 24 2006 31"	20mmUV	PB,L,R,NND,R=F			
NGC 634			Galaxy Sa	EF,ES,SEVF*INV	
Nov 24 2006 31"	20mmUV	CB,CL,OVAL,FNUC,USB,R=G			
NGC 661		H610-2	Galaxy E+:	F,S,R,BM,R	
Nov 24 2006 31"	20mmUV	VB,CL,OVAL,BNUC,R=G			
NGC 666			Galaxy S?	VF*IN EF,ES NEBY	
Nov 24 2006 31"	20mmUV	PB,CL,OVAL,FNUC,R=G			

Triangulum - The Triangle

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

Triangulum - The Triangle

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

Triangulum - The Triangle

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

Triangulum - The Triangle

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

Triangulum - The Triangle

PGC 9134		Galaxy Sd
Dec 12 2012 36"	17mmT4	VF,VS,EON,NND,AV,R=F,PA=50
PGC 9375		Galaxy Scd:
Dec 12 2012 36"	17mmT4	VF,PS,EON,UB,NND,AV3,R=F,PA=180
PGC 9789		Galaxy
Dec 19 2006 31"	17mmT4	PF,S,E,OVAL,NND,R=F
PGC 9820		Galaxy S
Dec 19 2006 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F

Ursa Major - The Great Bear

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

Ursa Major - The Great Bear

NGC 2805		H878-3	Galaxy SAB(rs)d	VF,L,R,MBM
Jun 07 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 2841		H205-1	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
Mar 04 2006 8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G		
NGC 2880		H260-1	Galaxy SB0-	B,CS,R,MBM,AM ST
Mar 04 2006 8"	11mmT6	PF,PS,R,NND,R=F		
NGC 2950		H68-4	Galaxy (R)SB(r)0^	B,PS,R,VGVMBMN
Mar 04 2006 8"	11mmT6	PB,PS,R,FNUC,,R=G		
NGC 2976		H285-1	Galaxy SAc pec	B,VL,ME152,ST INV
Mar 04 2006 8"	11mmT6	DIFF,F,FL,EON,NND,R=F		
NGC 2985		H78-1	Galaxy (R')SA(rs)ab	VB,CL,R,PSMBM,*INV F
Mar 04 2006 8"	11mmT6	PB,FS,OVAL,FNUC,R=G		
NGC 3031	M81		Galaxy SA(s)ab	EB,EL,E156,GSVMBMBN 2
Apr 20 2018 12"	11mmT6			
Jul 25 2017 12"	11mmT6	NOT BAD.		
May 14 2017 12"	11mmT6	EXCELLENT		
Jul 01 2016 12"	8mm Et	EYE CANDY		
Apr 14 2016 12"	8mm Ds	F,S,OVAL,NND,R=G		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007 1.9"	12x50	FB,L,OVAL,FNUC,R=G		
Aug 20 2006 1.9"	12x50	PB,PL,OVAL,FNUC,HISB,R=G		
Mar 19 2006 8"	19mmW	PB,PL,EL,EON,BNUC,R=G		
May 04 2005 8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E!		
Apr 04 2005 8"	11mmT6	VB,VL,EON,NUC,HISB,R=E!!		
Feb 10 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
Apr 14 2004 31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 3034	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
Apr 20 2018 12"	11mmT6			
Jul 25 2017 12"	11mmT6	NOT BAD		
May 14 2017 12"	11mmT6	EXCELLENT		
Jul 01 2016 12"	8mm Et	EYE CANDY		
Apr 14 2016 12"	8mm Ds	F,S,PEXT,NND,R=G,BRIGHT KNOT ON ONE END.		
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		

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

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NGC 3359		H52-5	Galaxy SB(rs)c	PB,L,E0,GLBM
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G		
NGC 3406			Galaxy E	PB,R,PGBM
May 30 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F		
NGC 3435		H887-2	Galaxy Sb	CF,PS,LE,VGBM
May 30 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
NGC 3440		H914-3	Galaxy SBb? sp	VF,S,LE
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=50		
NGC 3445		H267-1	Galaxy SAB(s)m	CB,PL,IR,VGLBM,*NF2'
May 30 2014 18"	8mm Ds	PFL,PS,R,UB,NND,R=F		
NGC 3448		H233-1	Galaxy I0	B,PL,ME67,GBM
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
NGC 3458		H268-1	Galaxy SAB0:	VB,VS,R,STELLAR
Apr 09 2010 12"	11mmT6	PB,CS,R,BNUC,R=G		
NGC 3471		H972-3	Galaxy Sa	VF,S,R,BM
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
NGC 3516		H336-2	Galaxy (R)SB(s)0^:	PB,VS,IR,PSMBM*
Jul 14 2010 12"	7.5mmW	PF,CS,OVAL,FNUC,R=F		
NGC 3556	M108	H46-5	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
Apr 20 2018 12"	11mmT6			
Jul 15 2015 12"	17mmT4			
May 23 2015 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007 1.9"	12x50	F,S,EON,NND,R=F		
Aug 20 2006 1.9"	12x50	PF,PS,OVAL,NND,R=F		
Mar 19 2006 8"	19mmW	FB,FL,EL,EON,RNUC,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 3583		H728-2	Galaxy SB(s)b	PB,PL,R,VGMBM
Jul 14 2010 12"	7.5mmW	DIFF,CF,PS,OVAL,UB,NND,R=F		
NGC 3587	M97		Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM
Apr 20 2018 12"	11mmT6			
Apr 14 2016 12"	8mm Ds	PRETTY FAINT. NO FILTER USED.		

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NGC	3587	M97	Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM
	Aug 15 2015	12"	11mmT6	
	May 23 2015	12"	11mmT6	
	Jul 13 2013	18"	7mm TV	MORE EYE CANDY
	May 23 2012	18"	17mmAT	EYE CANDY
	Mar 16 2012	18"	17mmAT	2012 M.M.
	Jul 04 2011	12"	11mmT6	LAST OBJECT OF THE NIGHT. BACK TO WORK.
	Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
	Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES
	Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009
	Mar 08 2007	1.9"	12x50	B,R,R=G. LOOKS STELLAR
	Aug 20 2006	1.9"	12x50	PF,VS,AV,R=F
	Mar 19 2006	8"	19mmW	PB,L,R,R=G
	Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
	Dec 26 2003	8"	25mmPL	Q/M COLD
NGC	3610		H270-1	Galaxy E5:
	Mar 17 2007	8"	11mmT6	PB,S,R,BNUC,R=G
	Mar 13 2007	8"	11mmT6	PF,PS,R,NND,R=F
NGC	3613		H271-1	Galaxy E6
	Mar 17 2007	8"	11mmT6	F,PS,OVAL,FNUC,R=G
NGC	3619		H244-1	Galaxy (R)SA(s)0+:
	Mar 17 2007	8"	11mmT6	F,PS,R,NND,R=F
NGC	3622		H879-2	Galaxy S?
	Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,AV,R=F
NGC	3631		H226-1	Galaxy SA(s)c
	Mar 17 2007	8"	11mmT6	B,PL,R,FNUC,R=G
NGC	3642		H245-1	Galaxy SA(r)bc:
	Mar 17 2007	8"	11mmT6	F,PL,OVAL,NND,R=F
NGC	3652		H775-2	Galaxy Scd?
	Mar 28 2011	12"	5mm TV	PF,PS,OVAL,UB,NND,R=F,PA=115
NGC	3654		H880-2	Galaxy S?
	May 30 2014	18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F
NGC	3656		H782-2	Galaxy (R')I0: pec
	May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F
NGC	3657		H768-3	Galaxy SAB(rs)c pec
	May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F

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NGC 3668 Jul 14 2010 12"	7.5mmW	H845-2 VF,CS,R,UB,NND,AV,R=F	Galaxy Sbc	F,PS,IR,GBM,*9NP
NGC 3669 Jul 14 2010 12"	7.5mmW	H829-2 VF,CS,EON,UB,NND,AV,R=P	Galaxy SBcd: sp	VF,PL,PME135,ER
NGC 3674 May 30 2014 18"	8mm Ds	H886-2 PF,PS,OVAL,EEXT,UB,NND,R=F,PA=25	Galaxy S0 sp	PF,IF
NGC 3675 Mar 17 2007 8"	11mmT6	H194-1 PB,PL,EL,OVAL,BNUC,R=G	Galaxy SA(s)b	VB,CL,VME0,VSMBMN
NGC 3683 Mar 28 2011 12"	5mm TV	H246-1 VF,PS,OVAL,UB,NND,AV,R=F	Galaxy SB(s)c?	CB,PL,E
NGC 3690 Jun 22 2012 18"	8.8 ES	H247-1 PF,PS,OVAL,UB,NND,R=F,PAIRED W/IC-694	Galaxy IBm pec	PB,PS,VLE80,PGBM
NGC 3718 May 23 2012 18" Feb 23 2006 31"	8.8 ES 17mmT4	H221-1 F,S,OVAL,MEXT,UB,NND,R=F VB,VL,OVAL,BNUC,HISB,R=G	Galaxy SB(s)a pec	PB,VL,R,VGLBM
NGC 3726 Mar 17 2007 8"	11mmT6	H730-2 PF,PL,OVAL,NND,R=F	Galaxy SAB(r)c	PB,VL,LE0,VSMBM,*11N
NGC 3729 Feb 23 2006 31"	17mmT4	H222-1 FB,FL,R,BNUC,HISB,R=G	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
NGC 3738 Jun 22 2012 18"	8.8 ES	H783-2 B,PS,OVAL,MEXT,UB,NND,R=F	Galaxy Im	PB,PL,BM
NGC 3756 Mar 01 2011 12"	11mmT6	H784-2 PF,PS,OVAL,MEXT,UB,NND,R=F	Galaxy SAB(rs)bc	PF,L,LE
NGC 3813 Mar 17 2007 8"	11mmT6	H94-1 CF,CS,OVAL,NND,R=F	Galaxy SA(rs)b:	CB,PL,PME90,BM
NGC 3877 Apr 14 2010 16" Mar 17 2007 8"	11mmT6 11mmT6	H201-1 PB,PL,EON,FNUC,R=G PF,PL,EON,NND,R=F	Galaxy SA(s)c:	B,L,ME37
NGC 3888 Mar 17 2007 8"	11mmT6	H785-2 PF,PS,UB,NND,R=F	Galaxy SAB(rs)c	PB,S,LE,PGBM
NGC 3893 Mar 17 2007 8"	11mmT6	H738-2 VF,PS,OVAL,NND,AV,R=F	Galaxy SAB(rs)c:	B,PL,R,MBM

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NGC 3898 Mar 17 2007 8"	11mmT6	H228-1 PB,PS,OVAL,FNUC,R=G	Galaxy SA(s)ab	B,PL,LE,SVMBM
NGC 3938 Mar 17 2007 8"	11mmT6	H203-1 DIFF,PF,PL,OVAL,NND,R=F	Galaxy SA(s)c	B,VL,R,BMPBN,ER
NGC 3941 Mar 17 2007 8"	11mmT6	H173-1 PB,CS,OVA,,BNUC,R=G	Galaxy SB(s)0^	VB,PL,R,SMBM*9
NGC 3945 Mar 17 2007 8"	11mmT6	H251-1 PF,S,OVAL,NND,R=F	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
NGC 3949 Mar 17 2007 8"	11mmT6	H202-1 PF,S,OVAL,NND,R=F	Galaxy SA(s)bc:	CB,PL,PME,VGBM
NGC 3953 Mar 18 2007 8"	11mmT6	H45-5 PB,PL,EL,OVAL,FNUC,MSB,R=G	Galaxy SB(r)bc	CB,L,E0,VSMBLRN
NGC 3982 Mar 18 2007 8"	11mmT6	H62-4 PF,L,OVAL,NND,=F	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
NGC 3992 Apr 20 2018 12" Jul 15 2015 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 19 2006 8" Mar 19 2004 8" Mar 09 2004 8"	M109 11mmT6 17mmT4 17mmAT 17mmAT 26mm 26mm 19mmW 25mmPL 25mmPL	H61-4 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 F,FS,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPTER = ARGO NAVIS	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
NGC 3998 Mar 18 2007 8"	11mmT6	H229-1 PB,PL,OVAL,FNUC,MSB,R=G	Galaxy SA(r)0^?	CB,PS,R,VG,SMBM
NGC 4013 Mar 01 2011 12"	11mmT6	H733-2 PF,PS,EON,BNUC,R=G	Galaxy Sb sp	B,CL,ME62,VSVMBM*10
NGC 4026 Mar 18 2007 8"	11mmT6	H223-1 PB,L,OVAL,FNUC,MSB,R=G	Galaxy S0 sp	VB,CL,ME176,VSVMBMBN
NGC 4036 Mar 18 2007 8"	11mmT6	H253-1 PB,PL,EON,FNUC,MSB,R=G	Galaxy S0-	VB,VL,E
NGC 4041 Mar 18 2007 8"	11mmT6	H252-1 PF,PL,R,NND,R=F	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN

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NGC 4047		H741-2	Galaxy (R)SA(rs)b:	PB,PS,R
Mar 01 2011 12"	11mmT6	PF,CS,R,UB,NND,R=F		
NGC 4051		H56-4	Galaxy SAB(rs)bc	B,VL,E,VGV SMBM*11
Mar 18 2007 8"	11mmT6	PF,L,R,NND,AV,R=F		
NGC 4062		H174-1	Galaxy SA(s)c	PB,VL,ME97,VGBM
Mar 28 2011 12"	7mm TV	PF,PS,OVAL,PEXT,R=G,BRIGHTER TOWARDS THE MIDDLE		
NGC 4085		H224-1	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
Mar 18 2007 8"	11mmT6	VF,PS,EL,EON,NND,AV,R=F		
NGC 4088		H206-1	Galaxy SAB(rs)bc	B,CL,E55,LBM
Mar 18 2007 8"	11mmT6	PF,L,EON,UB,NND,R=F		
NGC 4096		H207-1	Galaxy SAB(rs)c	PB,VL,ME32
Mar 01 2011 12"	11mmT6	PF,PS,EON,FNUC,R=F		
NGC 4100		H717-3	Galaxy (R')SA(rs)bc	PB,VL,VME161,VGVLBM
Mar 01 2011 12"	17mmAT	PF,PS,EON,UB,NND,R=F		
NGC 4102		H225-1	Galaxy SAB(s)b?	B,PS,R,BMBN,*12SPVNR
Mar 18 2007 8"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F		
NGC 4144		H747-2	Galaxy SAB(s)cd? sp	PF,CL,VME109,VGBM
Mar 01 2011 12"	11mmT6	PF,PS,EON,FNUC,R=F		
NGC 4157		H208-1	Galaxy SAB(s)b? sp	PF,CL,VME60,(DOUBLE)
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		
NGC 4271		H804-2	Galaxy S0-:	PB,PL,IF
Mar 28 2011 12"	5mm TV	PF,VS,OVAL,VFNUC,R=F		
NGC 4290		H805-2	Galaxy SB(rs)ab:	PB,L,R,GMBM
Mar 01 2011 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
NGC 4605		H254-1	Galaxy SB(s)c pec	B,L,VME118,GLBM
Aug 31 2010 12"	7mm TV	DIFF,CF,PS,OVAL,UB,NND,R=F. PA=90		
NGC 5204		H63-4	Galaxy SA(s)m	PB,CL,IR,GMBM,R
Mar 01 2011 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 5308		H255-1	Galaxy S0- sp	B,PL,ME57,PSBMBEN
Mar 01 2011 12"	11mmT6	PF,CS,EON,FNUC,R=G		
NGC 5322		H256-1	Galaxy E3-4	VB,PL,IR,PSMBM

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NGC 5322		H256-1	Galaxy E3-4	VB,PL,IR,PSMBM
Mar 18 2007 8"	11mmT6	PB,L,OVAL,FNUC,HISB,R=G		
NGC 5430		H827-2	Galaxy SB(s)b	PB,S,IE,MBM
Mar 01 2011 12"	11mmT6	CF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 5443		H799-2	Galaxy SB(s)b?	PF,L,E
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
NGC 5447		H787-3	Knot in Galaxy	PB,S,R,GMBM,CONNM101
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SW SIDE OF - KNOT IN GALAXY		
NGC 5448		H691-2	Galaxy (R)SAB(r)a	PB,CL,VME90,SMBMN
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 5457	M101		Galaxy SAB(rs)cd	PB,VL,IR,G,VSMBMBSN 4
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		
NGC 5462		H789-3	Knot in Galaxy	PB,PL,IR,GBM,CONM101
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SE SIDE - KNOT IN GALAXY		
NGC 5473		H231-1	Galaxy SAB(s)0-:	PB,S,R,GBM
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		
NGC 5474		H214-1	Galaxy S(c)	PB,L,BM
Mar 18 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
NGC 5480		H692-2	Galaxy SA(s)c:	F,PS,VGBM,NP OF 2
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 5481		H693-2	Galaxy E+	F,VS,SMBM,STELL,SF-2
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 5485		H232-1	Galaxy SA0 pec	CB,R,VGBM,F OF 2
Mar 18 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F		

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NGC 5585		H235-1	Galaxy SAB(s)d	PF,L,IR,VGMBM,R
Mar 01 2011 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 5631		H236-1	Galaxy SA(s)0^	B,S,R,PSBMN
Mar 18 2007 8"	11mmT6	CF,CS,R,NND,R=F		
PAL 4			Globular	
Apr 06 2010 12"	11mmT6	VF,VS,AV,R=F,FAINT SMUDGE, 12TH MAG START TO WEST.		
PGC 29472			Galaxy SB(s)c? sp	
May 25 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=125		
PGC 31697			Galaxy S?	
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
PGC 31720			Galaxy S?	
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
PGC 31959			Galaxy SBb	
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
PGC 31965			Galaxy S0/a	
Feb 23 2006 31"	17mmT4	PB,PL,EON,FNUC,MSB,R=G		
PGC 34303			Galaxy S0	
Feb 23 2006 31"	17mmT4	PB,PL,R,BNUC,HISB,R=G		
PGC 34733			Galaxy Sd	
Feb 23 2006 31"	17mmT4	FB,FL,EOB,FNUC,MSB,R=G		
PGC 34768			Galaxy SB(s)ab	
Feb 23 2006 31"	17mmT4	FB,FL,R,FNUC,MSB,R=G		
PGC 35609			Galaxy SB0 pec:	
Feb 23 2006 31"	17mmT4	FF,PS,OVAL,NND,R=F		
PGC 35615			Galaxy SA(s)0/a pec:	
Feb 23 2006 31"	17mmT4	PB,FS,R,NND,R=G		
PGC 35618			Galaxy (R')S0/a pec:	
Feb 23 2006 31"	17mmT4	PB,FS,OVAL,FNUC,MSB,R=G		
PGC 35620			Galaxy Sa pec sp	
Feb 23 2006 31"	17mmT4	PB,FS,OVA,FNUC,MSB,R=G		
PGC 35631			Galaxy S?	
Feb 23 2006 31"	17mmT4	PF,PL,EON,NND,R=F		

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PGC 36343		Galaxy Scd:
May 30 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=90
WINN 4	M40	Unknown STAR
Mar 16 2012 18"	17mmAT	2012 M.M.
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009
Aug 20 2006 1.9"	12x50	2-STARS
Mar 19 2006 8"	19mmW	R=F
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
Dec 30 2003 8"	25mmPL	H/M COLD

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NGC 5144		H70-4	Galaxy SAc? pec	(PLN),CB,S,R,G,SLBM
Sep 02 2016 12"	8mm Et	VF,VS,OCAL,UB,NND,R=F		
NGC 5832		H332-2	Galaxy SB(rs)b?	PB,CL,IR,BP,R
Sep 02 2016 12"	8mm Et	VF,PS,OVAL,AV1,R=P		
NGC 6048		H873-2	Galaxy E	F,R,BM
Sep 02 2016 12"	8mm Et	PF,PS,OVAL,NND,R=F		
NGC 6068		H973-3	Galaxy SBbc?	VF,VS,LE0,R
Sep 02 2016 12"	8mm Et	VF,VS,OVAL,NNDL,AV,R=F		
NGC 6079		H884-3	Galaxy E	VF,VS
Aug 15 2015 12"	8mm Ds	VF,VS,OVAL,UB,NND,R=F		
Aug 31 2010 12"	7mm TV	CF,PS,OVAL,NND,R=F. PA=90		
NGC 6217		H280-1	Galaxy (R)SB(rs)bc	B,CL,LE,SLBM
Sep 02 2016 12"	8mm Et	PF,PS,OVAL,FNUC,R=F. SQM-20.08		
Mar 18 2007 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 6251		H974-3	Galaxy E	CF,S,BM,P OF 2
Sep 02 2016 12"	8mm Et	VF,VS,R,NND,R=F		
NGC 6324		H945-3	Galaxy S?	VF,S,E,S*S
Sep 02 2016 12"	8mm Et	VF,VS,OVAL,NND,R=F		

Virgo - The Virgin

ABELL 36			Planetary Neb
Jul 13 2013	18"	11mmT6	VF,VS,R=F. NO CENTRAL STAR NOTED. USED OIII FILTER.
IC 1042			Galaxy S0?
May 23 2012	18"	8.8 ES	PF,PS,R,UB,NND,R=F
IC 3011			Non-Existent
Mar 08 2010	12"	11mmT6	PF,PS,EON,UB,NND,R=F
IC 3074			Galaxy SB(s)dm: sp
May 30 2014	18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=160
IC 3259			Galaxy SAB(s)dm?
Mar 30 2014	18"	7mm TV	VF,VS,OVAL,UB,NND,AV1,R=P
IC 3322A			Galaxy SB(s)cd: sp
May 25 2014	18"	8mm Ds	PF,PS,EON,FNUC,R=F,PA=160
IC 3414			Galaxy SABdm?
May 25 2014	18"	8mm Ds	VF,VS,OVAL,UB,NND,AV1,R=P
IC 3446			Galaxy S?
May 18 2007	31"	17mmT4	VF,VS,R,NND,AV,R=F
May 14 2007	31"	17mmT4	PB,PS,EON,FNUC,MSB,R=G
IC 3470			Galaxy E?
May 14 2007	31"	17mmT4	PB,PS,R,UB,NND,R=G
IC 3481			Galaxy SAB0-: pec
May 18 2007	31"	17mmT4	PB,PS,OVAL,UB,NND,R=F
IC 3481A			Galaxy E pec:
May 18 2007	31"	17mmT4	CF,VS,R,NND,AV,R=F
IC 3483			Galaxy SAB(s)b pec:
May 18 2007	31"	17mmT4	PF,PS,OVAL,UB,NND,R=F
IC 3499			Galaxy S0/a
May 14 2007	31"	17mmT4	PF,PL,EON,UB,NND,R=F
IC 3510			Galaxy S?
May 14 2007	31"	17mmT4	CF,CS,OVAL,NND,AV,R=F
IC 3583			Galaxy IBm
May 18 2007	31"	17mmT4	PF,PL,EL,OVAL,NND,R=F
MAC 1141+1016			Galaxy

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MAC 1141+1016			Galaxy	
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
MAC 1231+0036			Galaxy	
May 14 2007 31"	17mmT4	CF,VS,OVAL,NND,R=F		
MAC 1231+0353			Galaxy	
May 14 2007 31"	17mmT4	VF,CS,EON,NND,AV,R=P		
MAC 1234-0727			Galaxy	
May 14 2007 31"	17mmT4	VF,CS,R,NND,AV,R=F		
MAC 1234-0732			Galaxy	
May 14 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F		
MAC 1252+1001			Galaxy	
May 18 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
MAC 1253+0956			Galaxy	
May 18 2007 31"	17mmT4	EF,VS,R,NND,AV,R=F		
NGC 3776			Galaxy Sb	EF,VS
May 10 2005 31"	11mmT6	VF,S,OVAL,NND,R=F		
NGC 3818		H284-3	Galaxy E5	F,PS,R,PSBM
Apr 02 2008 8"	11mmT6	B,S,OVAL,FNUC,R=F		
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F		
NGC 3822		H153-2	Galaxy S0?	PF,PS,3RD OF 4
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		
NGC 3825		H154-2	Galaxy SBa	PF,PS,4TH OF 4
May 18 2007 31"	17mmT4	PF,CS,OVAL,NND,R=F		
NGC 3833		H102-3	Galaxy Sc	EF,PS
May 18 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
NGC 3848		H35-3	Galaxy Sc	EF,VS
May 18 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G		
NGC 3952		H612-3	Galaxy IBm: sp	CF,CS,LE90,BM,R
Mar 08 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
NGC 3976		H132-2	Galaxy SAB(s)b	B,PL,CE30,VSMBMN
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F		
NGC 4030		H121-1	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR

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NGC 4030		H121-1	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR
Apr 04 2005 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
NGC 4045		H276-2	Galaxy SBa	PF,L,R,SBM,*SF
May 30 2016 12"	8mm Ds	VF,VS,OVAL,MEXT,UB,NND,AV2R=F		
Mar 08 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
NGC 4067		H37-3	Galaxy SA(s)b:	F,PS,R,GBM
Mar 08 2010 12"	11mmT6	VF,CS,OVAL,UB,NND,AV,R=F		
NGC 4073		H277-2	Galaxy E+	F,PS,R,PGBM,NP OF 2
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
NGC 4079			Galaxy (R')SAB(rs)bc:	F,L,R,*10N1'
Mar 08 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 4116			Galaxy SB(rs)dm	VF,E,SPOF2,HOOKSHAPE
Apr 29 2011 12"	7mm TV	DIFF,CF,PS,OVAL,AV,R=F,PA=120		
Apr 02 2008 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
NGC 4123		H4-5	Galaxy SB(r)c	CF,VL,E90,BMN
Apr 02 2008 8"	11mmT6	VF,L,OVAL,NND,AV,R=F		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
NGC 4124		H33-1	Galaxy SA(r)0+	PB,PL,ME118,BM,R
Apr 09 2008 8"	11mmT6	PF,PS,R,NND,LSB,R=F		
NGC 4168		H105-2	Galaxy E2	PB,PL,IF,PSBM,R,*INV
Apr 04 2005 8"	11mmT6	MB,OVAL,PATCH,NND,R=G		
NGC 4178			Galaxy SB(rs)dm	VF,VL,E45,*7F
Apr 04 2005 8"	11mmT6	VF,EL,OVAL,AV,R=F		
NGC 4179		H9-1	Galaxy S0 sp	PB,PS,PME135,BMN
Apr 04 2005 8"	11mmT6	MB,EON,OVAL,FNUC,MSB,R=G		
NGC 4197		H134-2	Galaxy Sd	PF,PME,VGBM
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=30		
NGC 4206		H165-2	Galaxy SA(s)bc:	F,VME
Apr 16 2009 16"	17mmT4	VF,PS,EON,NND,VLOWSB,R=F		
Apr 04 2005 8"	11mmT6	VF,EON,NND,AV,R=F		
NGC 4207			Galaxy S?	PF,PS,LE,*14NP
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		

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NGC 4215		H135-2	Galaxy SA(r)0+: sp	B,PS,E,SBM*11
Mar 08 2010 12"	11mmT6	CF,CS,EON,UB,NND,R=F		
NGC 4216		H35-1	Galaxy SAB(s)b:	VB,VL,VME17,SBMN
Apr 16 2009 16"	17mmT4	PB,PL,EON,BNUC,HSB,R=G		
Apr 04 2005 8"	11mmT6	VB,EON,FNUC,MSB,R=G		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
NGC 4224		H136-2	Galaxy SA(s)a: sp	PB,PS,LE,GBM,R
Apr 09 2008 8"	11mmT6	PF,PS,EON,NND,LSB,R=F		
NGC 4233		H496-2	Galaxy S0^	PF,R,VSBSMN
Apr 09 2008 8"	11mmT6	PF,CS,OVAL,FNUC,LSB,R=F		
NGC 4235		H17-2	Galaxy SA(s)a sp	PB,PL,PME,BM,P OF 2
Apr 29 2011 12"	5mm TV	PF,PS,EON,FNUC,R=G,PA=45		
Apr 09 2008 8"	11mmT6	PF,PS,EON,UB,FNUC,R=G		
NGC 4240			Galaxy E	PB,S,*12SP1/2'
Mar 08 2010 12"	11mmT6	VF,CS,OVAL,UB,NND,R=F		
NGC 4241		H480-3	Galaxy SA(s)0+:	VF,L,VGBM,*7S
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,LSB,AV,R=F		
NGC 4255			Galaxy SB(r)0^	S,PMBM
May 18 2014 18"	8mm Ds	VF,PS,OVAL,MEXT,UB,NND,AV1,R=F		
NGC 4260		H138-2	Galaxy SB(s)a	PB,E,PSBM
Apr 14 2016 12"	11mmT6	DIFF,PS,,S,R,UB,NND,R=F		
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 4261		H139-2	Galaxy E2-3	PB,PS,R,GBM
Apr 14 2016 12"	11mmT6	PF,PS,R,FNUC,R=F		
Apr 26 2006 8"	11mmT6	B,L,OVAL,FNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4264		H140-2	Galaxy SB(rs)0+	F,PS,R,GBM
Apr 09 2008 8"	11mmT6	VF,VS,R,NND,AV,R=F		
NGC 4267		H166-2	Galaxy SB(s)0-?	PB,VS,R,VSMBM
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4268			Galaxy SB0/a: sp	PF,S,2ND OF 6 NEB
Apr 04 2005 8"	11mmT6	VF,EL,OVAL,NND,AV,R=F		
NGC 4270		H568-2	Galaxy S0	PB,S,R

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NGC 4270		H568-2	Galaxy S0	PB,S,R
May 14 2017 12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F		
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,UB,NND,R=G		
Apr 09 2008 8"	11mmT6	PF,PS,EON,FNUC,MSB,R=G		
NGC 4273		H569-2	Galaxy SB(s)c	PB,L,E,GBM
May 14 2017 12"	11mmT6	PF,PS,OVAL,FNUC,R=G		
Apr 04 2005 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
NGC 4281		H573-2	Galaxy S0+: sp	B,VL,R,PGBM
May 14 2017 12"	11mmT6	PF,PS,OVAL,FNUC,R=G		
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=F		
Apr 04 2005 8"	11mmT6	MB,EL,OVAL,NND,MSB,R=F		
NGC 4285			Galaxy Sa	EF,PS,R
Apr 29 2006 31"	19mmW	VF,S,OVAL,NND,AV,R=F		
NGC 4294		H61-2	Galaxy SB(s)cd	F,L,ME135,BIN,P OF 2
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,AV,R=F		
NGC 4299		H62-2	Galaxy SAB(s)dm:	F,L,LE,VGBM,F OF 2
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
NGC 4300		H572-2	Galaxy Sa	F,LE,VGBM
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
NGC 4303	M61	H139-1	Galaxy SAB(rs)bc	VB,VL,VSBM*,BIN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 06 2007 1.9"	12x50	PB,PS,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	DIFF,F,L,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4305			Galaxy SA(r)a	VF,R
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4306		
NGC 4306			Galaxy SB(s)0^:	VF,PL,R,4305SP
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F,PAIRED W/.NGC-4305		
NGC 4307			Galaxy Sb sp	PF,L,ME,3KNOTS
May 18 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=24		
NGC 4309			Galaxy SAB(r)0+	F,S,*11F12S
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		

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NGC 4313 Apr 04 2005 8"	11mmT6	H63-2 MF,EL,EON,NND,R=F	Galaxy SA(rs)ab: sp	VF,L,E135,R
NGC 4324 May 10 2005 8"	11mmT6	VF,VS,EL,OVAL,NND,R=F	Galaxy SA(r)0+	PB,RORLE,BM
NGC 4326 May 10 2005 8"	11mmT6	H141-2 MF,VS,R,NND,R=F	Galaxy SAB(r)ab:	VF,S,R,BM,1ST OF 3
NGC 4330 May 10 2005 8"	11mmT6	VF,VS,EON,NND,AV,R=F	Galaxy Scd?	VF,L,ME
NGC 4339 Apr 09 2008 8"	11mmT6	H143-2 PF,PS,R,FNUC,MSB,R=G	Galaxy E0	B,PL,R,BM,3RD OF 3
NGC 4341 Mar 30 2014 18"	7mm TV	H95-3 PF,PS,EON,UB,NND,R=F	Galaxy SAB(s)0^ sp	EF,VS,R
NGC 4342 Mar 30 2014 18"	7mm TV	H96-3 PF,PS,OVAL,BNUC,R=F	Galaxy S0- sp	EF,VS,R
NGC 4343 Mar 30 2014 18" Apr 09 2008 8"	7mm TV 11mmT6	H94-3 PF,PS,OVAL,MEXT,UB,NND,R=F PF,PS,EON,UB,NND,R=F	Galaxy SA(rs)b:	PF,S,E,(D)
NGC 4348 Mar 30 2014 18"	7mm TV	H625-2 PF,PS,EON,UB,NND,R=F,PA=40	Galaxy SAbc: sp	F,PL,E70,VLBM
NGC 4351 Mar 30 2014 18"	7mm TV	DIFF,PF,PS,OVAL,UB,NND,R=F	Galaxy SBab/	F,PL,IR,BM
NGC 4352 Mar 30 2014 18"	7mm TV	H64-2 PF,PS,OVAL,PEXT,FNUC,R=G	Galaxy SA0: sp	CF,CS,LE
NGC 4356 May 25 2014 18"	8mm Ds	H481-3 PF,PS,EON,UB,NND,R=F, MAG 13 STAR ON SOUTH EDGE.	Galaxy Scd:	VF
NGC 4365 Apr 26 2006 8" May 22 2004 8"	11mmT6 25mmPL	H30-1 PB,PL,OVAL,FNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy E3	CB,PL,VLE,GL,SMBM
NGC 4370 Mar 30 2014 18"	7mm TV	H144-2 PF,PS,OVAL,UB,NND,R=F	Galaxy Sa sp	PF,PS,LE,BM
NGC 4371 Apr 26 2006 8" Apr 14 2004 8"	11mmT6 25mmPL	H22-1 PF,PS,OVAL,NND,R=F CLEAR NIGHT - MEGASTAR CONTROL	Galaxy SB(r)0+	B,PS,R,GBM

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NGC 4374	M84	Galaxy E1	VB,PL,R,PSBM,R
May 14 2017 12"	11mmT6	F,VS,R,BNUC,R=E	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 26 2006 8"	19mmW	B,S,OVAL,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4378		H123-1 Galaxy (R)SA(s)a	B,S,*8,9SF3'
Apr 09 2010 12"	11mmT6	PF,PS,R,FNUC,R=F	
NGC 4380		Galaxy SA(rs)b:?	VF,PL,R,LBM
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
NGC 4385		Galaxy SB(rs)0+:	VF,VS,ALM STELL
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
NGC 4387		H167-2 Galaxy E	PF,VS,R,*13NP90,NP-2
May 14 2017 12"	11mmT6	F,PS,OVAL,FNUC,R=E	
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F	
NGC 4388		H168-2 Galaxy SA(s)b: sp	VF,E,SF OF2
May 14 2017 12"	11mmT6	F,PS,EON,BNUC,R=E	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4402		Galaxy Sb sp	F,L,ME90
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F	
NGC 4403		H755-3 Galaxy SA(r)ab pec sp	VF,VS,E
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F,PAIRED W/NGC-4404	
NGC 4404		H756-3 Galaxy SA(r)0- pec:	VF,VS,E
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-4403	
NGC 4406	M86	Galaxy E3	VB,L,R,GBMN,R
Apr 20 2018 12"	11mmT6		
May 14 2017 12"	11mmT6	F,PS,R,BNUC,R=E	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 26 2006 8"	19mmW	B,S,R,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	

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NGC 4410A		Non-Existent	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410B	
NGC 4410B		Non-Existent	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410A	
NGC 4411A		Galaxy SBdm	
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F	
NGC 4411B		Non-Existent	
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
NGC 4413		H169-2	Non-Existent
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,ND,R=F	CF,S,GBM,2ST N,NP
Apr 09 2010 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F	
NGC 4417		H155-2	Galaxy SB0: sp
Apr 05 2005 8"	7.5mmW	VF,ML,EL,EON,NND,AV,R=F	F,PL,E,LBP
NGC 4420		H23-2	Non-Existent
Mar 30 2014 18"	7mm TV	PF,PS,OBVAL,MEXT,UB,NND,R=F	F,PL,LE,R,(=4409)
Apr 05 2005 8"	7.5mmW	VF,VS,EL,NND,AV,R=F	
NGC 4424		Galaxy SB(s)a:	F,PL,IR,BM
Apr 05 2005 8"	7.5mmW	MFN,ML,EL,OVAL,NND,MSB,R=G	
NGC 4425		H170-2	Galaxy SB0+: sp
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G	PF,S,R,BM
NGC 4429		H65-2	Galaxy SA(r)0+
Apr 26 2006 8"	11mmT6	F,PS,EL,OVAL,UB,R=F	B,L,CE,PSBM,*10NF
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 4435		H28-1	Galaxy SB(s)0^
Apr 20 2018 12"	11mmT6		VB,CL,R,NP OF 2
May 14 2017 12"	11mmT6	F,PS,R,FNUC,R=E	
Apr 26 2006 8"	11mmT6	B,S,R,FNUC,MSB,R=G	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4437		H5-4	Galaxy SA(s)cd: sp
May 19 2010 12"	7.5mmW	DIFF,CF,PS,EON,NND,AV,R=F	F,EE75,*10NF
NGC 4438		H28-1	Galaxy SA(s)0/a pec:
Apr 20 2018 12"	11mmT6		B,CL,VLE,R,SF OF 2
May 14 2017 12"	11mmT6	F,PS,EON,FNUC,R=E	
Apr 26 2006 8"	11mmT6	F,PL,EL,OVAL,NND,R=F	

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NGC 4438		H28-1	Galaxy SA(s)0/a pec:	B,CL,VLE,R,SF OF 2
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4442		H156-2	Galaxy SB(s)0^	VB,PL,R,SMBM
Apr 26 2006 8"	11mmT6	PB,CS,EON,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4443			Non-Existent	F,S,
Apr 05 2005 8"	7.5mmW	MFB,ML,EL,OVAL,FNUC,MSB,R=G		
NGC 4451			Galaxy Sbc:	PB,PS,R,BM,*13S
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,AV1,R=F		
NGC 4454		H180-2	Galaxy (R)SB(r)0/a	F,L,R,GBM,ER
May 25 2014 18"	8mm Ds	PF,PS,OVAL,NND,R=F		
NGC 4457		H35-2	Galaxy (R)SAB(s)0/a	CB,PS,R,SMBMN
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4458		H121-2	Galaxy E0-1	PB,S,R,BM,P OF 2
Apr 09 2010 12"	11mmT6	PB,PS,R,NND,R=G		
NGC 4461		H122-2	Galaxy SB(s)0+:	PF,S,R,BM,F OF 2
Apr 09 2010 12"	11mmT6	PB,PS,OVAL,PEXT,BNUC,HSB,R=G		
NGC 4464		H483-3	Galaxy S?	F,VS,R,PGBM
May 14 2007 31"	17mmT4	PB,PS,R,FNUC,MSB,R=G		
NGC 4465			Galaxy Sc	VF,VDIF
May 14 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 4467			Galaxy E2	VF,VS,LE
May 14 2007 31"	17mmT4	PF,CS,R,UB,NND,R=F		
NGC 4469		H157-2	Galaxy SB(s)0/a? sp	PF,PL,ME,BM,R
Apr 05 2005 8"	7.5mmW	MF,ML,EL,EON,NND,R=G		
NGC 4470		H18-2	Galaxy Sa?	F,PL,IR,BM
May 25 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=G		
NGC 4472	M49		Galaxy E2	VB,L,R,MBM,R
Apr 14 2016 12"	11mmT6	SOME MORE EYE CANDY		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		

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NGC 4472	M49	Galaxy E2	VB,L,R,MBM,R
May 14 2007 31"	17mmT4	B,CL,OVAL,BNUC,HISB,R=G	
May 06 2007 1.9"	12x50	PB,PS,OVAL,NND,R=G	
Mar 26 2006 8"	19mmW	B,L,OVAL,BNUC,HISB,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4476		H123-2 Galaxy SA(r)0-:	F,S,R,BM,1ST OF 3
May 25 2014 18"	8mm Ds	PF,VS,OVAL,FNUC,R=G	
NGC 4478		H124-2 Galaxy E2	PB,S,R,PSBM,2ND OF 3
Apr 05 2005 8"	7.5mmW	MB,MS,R,FNUC,MSB,R=G	
NGC 4482		H40-3 Galaxy E	EF,PL
May 25 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
NGC 4484		Galaxy SA(s)c pec:	PF,S,R,GBM
May 25 2014 18"	8mm Ds	VF,PS,R,UB,NND,AV,R=P	
NGC 4486	M87	Galaxy E+0-1 pec	VB,VL,R,MBM,3RD OF 3
Sep 19 2014 12"	17mmAT	PF,L,R=G, HOME - 8/14/14	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007 1.9"	12x50	PF,S,OVAL,R=F	
Mar 26 2006 8"	19mmW	B,LLARGER,FNUC,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4486A		Galaxy E2	
May 18 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND,R=F	
NGC 4486B		Galaxy cE0	
May 18 2014 18"	8mm Ds	VF,VSM,R,UB,NND,R=F	
NGC 4487		H776-2 Galaxy SAB(rs)cd	F,VL,ER
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
NGC 4488		H484-3 Galaxy SB(s)0/a pec:	VF,VS,LE
May 14 2007 31"	17mmT4	PB,PS,OVAL,UB,FNUC,MSB,R=G	
NGC 4491		H41-3 Galaxy SB(s)a:	F,L,R
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 4492		H499-2 Galaxy SA(s)a?	PF,PL,VGLBM,2*NR
May 14 2007 31"	17mmT4	PB,PS,R,FNUC,MSB,R=G	

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NGC 4493			Galaxy E+ pec:	VF,VS,IR
May 14 2007 31"	17mmT4	PF,CL,OVAL,NND,R=F		
NGC 4496A			Galaxy SB(rs)m	F,CL,BIN OR DNEB
May 14 2007 31"	17mmT4	PF,PS,R,NND,R=F		
NGC 4496B			Galaxy IB(s)m:	
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
NGC 4497		H42-3	Galaxy SAB(s)0+:	VF
May 14 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G		
NGC 4503		H66-2	Galaxy SB0-:	PB,S,R,GBM
May 14 2007 31"	17mmT4	PB,PL,EL,OVAL,BNUC,HISB,R=G		
NGC 4504		H771-2	Galaxy SA(s)cd	PB,CL,IE,GVLBM,ER
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4518			Galaxy SB0_2/3_(r)/a	F,S,R,BM
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 4519		H158-2	Galaxy SB(rs)d	F,PL,R,BM,R
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
NGC 4519A			Galaxy dS0?	
May 14 2007 31"	17mmT4	CF,CS,OVAL,NND,R=F		
NGC 4520		H757-3	Galaxy SA0- pec sp	VF,S,2VS*INV
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,FNUC,R=F		
NGC 4522			Galaxy SB(s)cd: sp	EF,PL,LE,VLBM
May 14 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F		
NGC 4526		H31-1	Galaxy SAB(s)0^:	VB,VL,ME120,PSMBM
May 14 2007 31"	17mmT4	VB,CL,EON,BNUC,HISB,R=G		
Apr 26 2006 8"	11mmT6	VB,CS,EON,BNUC,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
NGC 4527		H37-2	Galaxy SAB(s)bc	PB,L,PME69,MBM
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G		
NGC 4528		H67-2	Galaxy S0^:	PF,CS,R,BM,*9F30S
May 14 2007 31"	17mmT4	PF,PS,OVAL,BNUC,HISB,R=G		
NGC 4531		H175-2	Galaxy SB0+:	F,PL,R,VGBM
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		

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NGC 4532		H147-2	Galaxy IBm	PB,PL,PME,VGBM,R
May 14 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G		
NGC 4535		H500-2	Galaxy SAB(s)c	PF,VL,R
Apr 26 2006 8"	11mmT6	F,VL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4536		H2-5	Galaxy SAB(rs)bc	B,VL,ME110,SBM,ER
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G		
NGC 4546		H160-1	Galaxy SB(s)0-:	VB,CL,PME78,VSMBMN
Apr 26 2006 8"	11mmT6	F,L,OVAL,NND,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
NGC 4550		H36-1	Galaxy SB0^: sp	PB,S,VLE,SP OF 2
Apr 13 2005 8"	11mmT6	MF,MS,EL,NND,R=G		
NGC 4551		H37-1	Galaxy E:	PB,S,R,BM,NF OF 2
Apr 13 2005 8"	11mmT6	VF,MS,OVAL,NND,AV,R=F		
NGC 4552	M89		Galaxy E0-1	PB,PS,R,GMBM
Apr 20 2018 12"	11mmT6			
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	B,S,R,NND,R=F		
Mar 26 2006 8"	19mmW	B,L,R,FNUC,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
NGC 4567		H8-4	Galaxy SA(rs)bc	VF,L,NP OF D NEB
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 4568		H9-4	Galaxy SA(rs)bc	VF,L,SF OF D NEB
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 4569	M90		Galaxy SAB(rs)ab	PL,BMN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 18 2007 31"	17mmT4	EB,EL,EL,OVAL,BNUC,HISB,R=E		
May 06 2007 1.9"	12x50	PB,PS,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	F,L,EON,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
NGC 4570		H32-1	Galaxy S0 sp	CB,PS,ME0,SBMRN

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NGC 4570		H32-1	Galaxy S0 sp	CB,PS,ME0,SBMRN
Apr 28 2006 31"	19mmW	VB,CL,EON,,BNUC,PHISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4578		H15-2	Galaxy SA(r)0^:	PF,PS,R,SBMN,*NP
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,R=G		
NGC 4579	M58		Galaxy SAB(rs)b	B,L,IR,VMBM,R
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	F,S,R,NND,R=F		
Mar 26 2006 8"	19mmW	F.S.VA;,.NND.R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4580		H124-1	Galaxy SAB(rs)a pec	PB,L,VGBM
Apr 08 2005 8"	11mmT6	MB,ML,R,NND,R=G		
NGC 4581			Galaxy E+	F,S,BM,STELL N
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 4584			Galaxy SAB(s)a?	VF,S,R
May 18 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 4586		H125-1	Galaxy SA(s)a: sp	PB,L,E,PSBM
Apr 08 2005 8"	11mmT6	MF,ML,EL,NND,R=G		
NGC 4592		H31-2	Galaxy SA(s)dm:	F,L,E90,VGBM
Apr 26 2009 16"	17mmT4	CF,PS,EON,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	MF,ML,EL,EON,NND,AV,R=F		
NGC 4593		H183-2	Galaxy (R)SB(rs)b	PB,CL,E,SBMN=*
Apr 14 2016 12"	11mmT6	PF,S,OVAL,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,R=F		
NGC 4594	M104	H43-1	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
May 14 2017 12"	11mmT6	VERY NICE.		
Apr 14 2016 12"	8mm Ds	PF,PS,EON,FNUC,R=F,DUST LANE FAINT.		
May 23 2015 12"	11mmT6			
May 22 2015 12"	8mm Ds	ALWAYS GREAT. DUST LANE VISIBLE		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Apr 02 2008 31"	40mm	PB,PL,EON,BNUC,HISB,R=E		

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NGC 4594	M104	H43-1	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
May 06 2007 1.9"	12x50	PB,PL,EON,NND,R=G		
Apr 19 2007 31"	17mmT4	VB,VL,EON,BNUC,VHISB,R=E!!		
Mar 26 2006 8"	19mmW	PB,PL,EON,BNUC,HISB,R=G		
Apr 05 2005 8"	7.5mmW	VB,VL,EON,NUC,HISB,R=E!!		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4596		H24-1	Galaxy SB(r)0+	B,PS,R,GMBM,R,3*F
Apr 08 2005 8"	11mmT6	MB,ML,OVALFNUC,R=G		
NGC 4597		H636-2	Galaxy SB(rs)m	F,VL,BM
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 4598		H105-3	Galaxy SB0	EF,L,R,VLBM
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
NGC 4599		H509-3	Galaxy SA0/a sp	VF,VS
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
NGC 4600		H577-2	Galaxy S0	F,S,R,2*8F
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
NGC 4602		H184-2	Galaxy SAB(rs)bc	F,L,E,VGLBM
Apr 08 2005 8"	11mmT6	MF,MS,EON,NND,R=F		
NGC 4604			Galaxy Im: sp	NO DESCRIPTION
May 18 2014 18"	8mm Ds	VF,VS,OVAL,PEXT,UB,NND,AV,R=F		
NGC 4606		H43-3	Galaxy SB(s)a:	VF,PS,E,20R3VS*INV
Apr 08 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
NGC 4607			Galaxy SBb? sp	F,ME,3OR4'F4606
May 18 2014 18"	8mm Ds	PF,S,EON,UB,NND,R=F,PA=179		
NGC 4608		H69-2	Galaxy SB(r)0^	PB,PL,R,PSBM,R,*NP1'
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,FNUC,R=G		
NGC 4612		H148-2	Galaxy (R)SAB0^	PB,S,R,PSMBM
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,RNUC,R=G		
NGC 4621	M59		Galaxy E5	B,PL,LE,VSVMBM,2*P
Apr 20 2018 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		

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NGC 4621	M59	Galaxy E5	B,PL,LE,VSVMBM,2*P
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007 1.9"	12x50	B,PS,OVAL,FNUC,R=G	
Mar 26 2006 8"	19mmW	F,L,OVAL,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4623	H149-2	Galaxy SB0+: sp	CF,PL,E,PSLBM,R
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,AV,R=F	
NGC 4624		Galaxy E0-1	B,E
May 18 2014 18"	8mm Ds	F,S,OVAL,BNUC,R=G	
NGC 4630	H532-2	Galaxy IB(s)m?	CF,S,R,LBM
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F	
NGC 4632	H14-1	Galaxy SAc	PB,L,E45
Apr 26 2009 16"	17mmT4	CF,CS,OVAL,NND,R=F	
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F	
NGC 4636	H38-2	Galaxy E	B,L,IR,VGVMBM,R
Apr 26 2009 16"	17mmT4	PB,PS,OVAL,FNUC,R=F	
Apr 28 2006 31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4637		Galaxy S0?	DNEB W/4638,()
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,FNUC,R=F	
NGC 4638	H70-2	Galaxy S0- sp	F,R,GBM
Apr 20 2018 12"	11mmT6		
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,NND,R=G	
NGC 4639	H125-2	Galaxy SAB(rs)bc	PB,S,E,R,*12SF1'
Apr 08 2005 8"	11mmT6	MB,ML,OVAL,RNUC,R=G	
NGC 4643	H10-1	Galaxy SB(rs)0/a	CB,PS,LE,MBM
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F	
Apr 28 2006 31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4647	H44-3	Galaxy SAB(rs)c	PF,PL,LE115,NPOFDNEB
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,NND,R=G	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4649	M60	Galaxy E2	VB,PL,R,FOF DNEB
Apr 20 2018 12"	11mmT6		
Apr 14 2016 12"	11mmT6		

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NGC 4649	M60	Galaxy E2	VB,PL,R,FOF DNEB
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007 1.9"	12x50	B,PS,R,FNUC,R=G	
Mar 26 2006 8"	19mmW	F,L,OVAL,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4654		H126-2 Galaxy SAB(rs)cd	F,VL,PME,(D),3*NR
Apr 08 2005 8"	11mmT6	VF,ML,NND,R=F	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4660		H71-2 Galaxy E:	VB,S,VSVMBMN
Apr 13 2005 8"	11mmT6	MF,VS,OVAL,NND,R=G	
NGC 4664		H142-1 Galaxy SB(s)0/a	PB,2S*IN M,(=4665)
Apr 14 2016 12"	11mmT6	PF,PS,R,UB,NND,R=G	
Jun 07 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
NGC 4665		Non-Existent	B,PL,IR,MBM,*10SP
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
Apr 08 2005 8"	11mmT6	VB,ML,OVAL,FNUC,R=G	
NGC 4666		H15-1 Galaxy SABc:	B,VL,ME45,PSBM
Apr 14 2010 16"	11mmT6	PF,PS,EON,FNUC,USB,R=G	
Apr 26 2009 16"	17mmT4	PB,PS,EON,FNUC,R=G	
Apr 28 2006 31"	19mmW	VB,VL,EON,BNUC,VHISB,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4667		Non-Existent	B,S,R,PSBM,()
Apr 20 2018 12"	11mmT6		
NGC 4684		H181-2 Galaxy SB(r)0+	B,PL,PME25
Apr 14 2010 16"	11mmT6	PF,PS,OVAL,VEXT,UB,NND,R=F	
NGC 4691		H182-2 Galaxy (R)SB(s)0/a pec	PB,PL,E90,MBM
Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,MSB,R=G	
NGC 4697		H39-1 Galaxy E6	VB,L,LE45,SMBMN
Apr 28 2006 31"	19mmW	CB,VL,OVAL,VBNUC,VHISB,R=G	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 4698		H8-1 Galaxy SA(s)ab	CB,PL,IR,BM,R
Apr 13 2005 8"	11mmT6	MB,ML,EON,FNUC,MSB,R=G	

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NGC 4699		H129-1	Galaxy SAB(rs)b	VB,R,VMBMRN,R
Apr 28 2006 31"	19mmW	CB,CL,OVAL,BNUC,HISB,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
NGC 4700		H524-3	Galaxy SB(s)c? sp	F,L,ME40,VLBM,B*P
May 18 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=F,PA=48		
NGC 4701		H578-2	Galaxy SA(s)cd	F,S
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
NGC 4703		H514-3	Galaxy Sb sp	EF,CS,PME
May 18 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=G,PA=153		
NGC 4705		H610-3	Galaxy SAB(s)bc: sp	CF,PL,LE
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
NGC 4708		H722-3	Galaxy SA(r)ab pec?	EF,S
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, MEGASTAR SAYS 14.5 MAG.		
NGC 4713		H140-1	Galaxy SAB(rs)d	PB,L,VLE,GLBM
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
NGC 4716			Galaxy S0^ pec?	DNEB,NPBRIGHTER\$SMBM
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4717		
NGC 4717			Galaxy SB(rs)a pec?	DNEB SF ONE FAINTER
May 18 2014 18"	8mm Ds	VF,PS,OVAL,MEXDT,UB,NND,R=F,PAIRED W/NGC-4716		
NGC 4731		H41-1	Galaxy SB(s)cd	VF,PL,E
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4739		H515-3	Galaxy E+ pec:	F,PL,LE,PGLBM
May 14 2007 31"	17mmT4	DIFF,PF,PL,R,NND,R=F		
NGC 4742		H133-1	Galaxy E4:	PB,VS,VBMN=*11,*10SF
Apr 13 2005 8"	11mmT6	MF,MS,EL,FNUC,R=F		
NGC 4753		H16-1	Galaxy I0	CB,L,VLE,VGLBM
Apr 28 2006 31"	19mmW	CB,CL,OVAL,BNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4754		H25-1	Galaxy SB(r)0-:	B,PL,R,PSBM,P OF 2
Apr 28 2006 31"	19mmW	CB,CL,OVAL,UB,FNUC,MSB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 4759B			Non-Existent	
May 18 2007 31"	17mmT4	CB,PL,R,BNUC,HISB,R=E		

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NGC 4760		Galaxy E0?	PB,R
Apr 13 2005 8"	11mmT6	VF,ML,OVAL,NND,AV,R=F	
NGC 4761		Galaxy E+	EF,ES,1'F DNEB4759
May 18 2007 31"	17mmT4	CB,PL,OVAL,BNUC,HISB,R=E	
NGC 4762		H75-2 Galaxy SB(r)0⁺? sp	PB,VME31,3B*S,F OF 2
Apr 28 2006 31"	19mmW	CB,VL,EON,BNUC,VHISB,R=G	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 4764		Galaxy S?	EF,ES,SF DNEB 4759
May 18 2007 31"	17mmT4	PB,PS,OVAL,NND,MSB,R=G	
NGC 4772		H24-2 Galaxy SA(s)a	PF,PS,R,MBM
Apr 08 2005 8"	11mmT6	VB,VS,EL,NND,R=F	
NGC 4775		H186-2 Galaxy SA(s)d	F,CL,R,VGLBM,R
Apr 14 2016 12"	11mmT6	VF,PS,R,UB,NND,R=F	
NGC 4778		Galaxy S0+ sp	VF,S,R,VLBM,F OFDNEB
May 18 2007 31"	17mmT4	CB,PL,R,BNUC,HISB,R=E	
NGC 4781		H134-1 Galaxy SB(rs)d	CB,VL,ME
Apr 13 2005 8"	11mmT6	MF,ML,EL,NND,R=F	
NGC 4809		Galaxy Im pec	F,DNEB W/4810
May 18 2007 31"	17mmT4	CF,PL,EON,NND,R=F	
NGC 4810		Galaxy Im pec	F,DNEB W/4809
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F	
NGC 4818		H549-2 Galaxy SAB(rs)ab pec:	PB,L,PME0,GBM
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4845		H536-2 Galaxy SA(s)ab sp	PF,PL,PME,VGBM,*NF
May 04 2005 8"	11mmT6	MF,MS,EL,EON,FNUC,R=G	
NGC 4856		H68-1 Galaxy SB(s)0/a	B,R,PSMBM,*13NP
Apr 28 2006 31"	19mmW	CB,CL,EL,EON,BNUC,MSB,R=G	
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
NGC 4866		H162-1 Galaxy SA(r)0⁺: sp	B,PL,ME90,SBMN,S*INV
Apr 28 2006 31"	19mmW	CN.VL,EON,BNUC,MSB,R=G	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4880		H83-3 Galaxy SA(r)0⁺:	CF,PL,R,VGLBM,R
Apr 09 2008 8"	11mmT6	VF,CS,R,NND,LSB,AV,R=F	

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NGC 4900 Apr 28 2006 31"	19mmW	H143-1 FB,PL,R,UB,NND,R=F	Galaxy SB(rs)c	CB,CE,*10ATT POS135
NGC 4902 Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	H69-1 VF,CS,R,NND,LSB,AV,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SB(r)b	PB,PL,IR,ST NR
NGC 4904 Apr 09 2008 8"	11mmT6	H517-2 VF,CS,R,NND,AV,R=F	Galaxy SB(s)cd	PB,PS,R,BM
NGC 4915 Apr 09 2008 8"	11mmT6	H47-4 VF,VS,R,NND,AV,R=F	Galaxy E0	PB,S,R,BM
NGC 4928 Apr 09 2008 8"	11mmT6	H190-2 VF,PL,OVAL,NND,LSB,R=F	Galaxy SA(s)bc pec	F,PS,VLE,GLBM
NGC 4933A May 18 2007 31"	17mmT4	H190-2 CB,PL,OVAL,BNUC,HISB,R=G	Galaxy S0/a pec	
NGC 4933B May 18 2007 31"	17mmT4	H190-2 PB,PS,OVAL,FNUC,MSB,R=G	Galaxy E pec	
NGC 4939 Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	H561-2 DIFF,VF,PL,OVAL,NND,LSB,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SA(s)bc	PB,L,R,GMBM
NGC 4941 Apr 09 2008 8"	11mmT6	H40-1 PF,CS,EL,OVAL,UB,NND,R=F	Galaxy (R)SAB(r)ab:	PF,L,E,GBMBN,R
NGC 4958 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	H130-1 CB,P,EON,BNUC,HISB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy SB(r)0? sp	VB,PS,E,BMBN
NGC 4981 Apr 09 2008 8"	11mmT6	H189-2 PF,CS,R,NND,LSB,R=F	Galaxy SAB(r)bc	B,PL,R,*10SF1'
NGC 4984 Apr 09 2008 8"	11mmT6	H301-2 PB,PS,OVAL,FNUC,MSB,R=G	Galaxy (R)SAB(rs)0+	B,PL,R,PSMBM
NGC 4995 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	H42-1 PB,CL,OVAL,FNUC,MSB,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SAB(rs)b	PB,PL,R,VGPMBM,*8NP
NGC 4999 Apr 09 2008 8"	11mmT6	H537-2 DIFF,VF,PS,OVAL,NND,AV,R=F	Galaxy SB(r)b	CF,PL,R,LBM,ER
NGC 5018		H746-2	Galaxy E3:	CB,S,R,MBMPBN

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NGC 5018		H746-2	Galaxy E3:	CB,S,R,MBMPBN
Apr 09 2008 8"	11mmT6	PB,PS,OVAL,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5020		H129-2	Galaxy SAB(rs)bc	CF,CL,VLE,LBM
Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,LSB,R=G		
NGC 5022			Galaxy SBb pec sp	VF,PL,E30,GBM,F5018
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=21		
NGC 5037		H510-2	Galaxy SA(s)a:	CF,PS,VLE,BM
Apr 09 2008 8"	11mmT6	VF,VS,EON,NND,AV,R=F		
NGC 5044		H511-2	Galaxy E0	PB,PL,R,BM
Apr 09 2008 8"	11mmT6	PF,CS,R,FNUC,MSB,R=G		
NGC 5054		H513-2	Galaxy SA(s)bc	F,PS,IR
Apr 28 2006 31"	19mmW	CB,PL,OVAL,UB,NND,R=F		
NGC 5068		H312-2	Galaxy SAB(rs)cd	F,L,IR,BM
Apr 26 2009 16"	11mmT6	PF,PL,R,UB,NND,R=F		
Apr 09 2008 8"	11mmT6	DIFF,VF,PL,R,NND,AV,R=F		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
NGC 5077		H193-2	Galaxy E3-4	PB,S,VLE,SBM,2ND OF3
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,UB,FNUC,R=G		
NGC 5084		H313-2	Galaxy S0 sp	CB,CS,VLE90,BF
Apr 09 2008 8"	11mmT6	PF,PL,EON,UB,FNUC,R=G		
NGC 5087		H724-3	Galaxy SA0:	CF,VS,IF
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=G		
NGC 5129		H653-2	Galaxy E	PB,VS,R,GMBM,**F
Apr 09 2008 8"	11mmT6	PF,PS,R,NND,AV,R=F		
NGC 5134		H314-2	Galaxy SA(s)b?	F,PS,LE,VGBM
Apr 09 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 5146		H115-3	Galaxy E/S0	VF,VS,STELLAR
Apr 06 2010 12"	11mmT6	CF,CS,R,UB,NND,R=F		
NGC 5221		H86-3	Galaxy Sb:	VF,S,VLE,1ST OF 3
May 23 2012 18"	8.8 ES	PF,PS,EON,FNUC,MSB,R=F,PA=120		
NGC 5222		H85-3	Galaxy E	CF,S,R,BM,2ND OF 3
May 23 2012 18"	8.8 ES	VF,CS,OVAL,MEXT,UB,,NND,AV2,R=F,PA=50		

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NGC 5230 May 23 2012 18"	8.8 ES	H87-3 PF,PS,R,UB,NND,R=F	Galaxy SA(s)c	F,L,E,VGBM,3RD OF 3
NGC 5247 May 22 2004 8"	25mmPL	H297-2 DECENT NIGHT - MEGASTAR CONTROL	Galaxy SA(s)bc	CF,VL,VG,PSMBMLN,
NGC 5257 May 23 2012 18"	8.8 ES	H895-2 PF,CS,OVAL,MEXT,FNUC,R=G,PA=135, PAIRED WITH NGC-5258, NO INTERATION VISIBLE	Galaxy SAB(s)b pec	VF,S,R,BM,P OF DNEB
NGC 5258 May 23 2012 18"	8.8 ES	H896-2 PF,PS,OVAL,MEXT,FNUC,R=G,PA=45, PAIRED W/NGC-5257, NO INTERATION VISIBLE	Galaxy SA(s)b: pec	F,S,IR,F OF DNEB
NGC 5363 Apr 14 2016 12" Apr 28 2006 31" May 22 2004 8"	11mmT6 19mmW 25mmPL	H6-1 PF,PS,OVAL,UB,NND,R=F PB,S,R,FNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy I0?	B,PL,R,PSBM,*8NF
NGC 5364 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	H534-2 B,CS,R,NND,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SA(rs)bc pec	CF,L,R,GBM
NGC 5426 May 30 2016 12" May 23 2012 18" Apr 09 2008 8"	8mm Ds 8.8 ES 11mmT6	H309-2 VF,VS,OVAL,NND,R=F. PAIRED W/NGC-5427 PB,PS,OVAL,FNUC,MSB,R=G,PA=5, PAIRED WITH NGC-5427 VF,VS,OVAL,NND,AV,R=F	Galaxy SA(s)c pec	PF,CL,R,GMBM,SP OF 2
NGC 5427 May 30 2016 12" May 23 2012 18"	8mm Ds 8.8 ES	H310-2 VF,VS,OVAL,NND,R=F. PAIRED W/NGC-5426 PF,PL,OVAL,MEXT,FNUC,R=G, PA=90, PAIRED WITH NGC-5426	Galaxy SA(s)c pec	PF,CL,R,NF OF 2
NGC 5493 May 19 2010 12"	7.5mmW	H46-4 PF,CS,OVAL,MEXT,BNUC,R=G	Galaxy S0 pec sp	PB,VS,R,PSMBM*,*18IN
NGC 5506 May 19 2010 12"	7.5mmW	H687-2 DIFF,CF,PS,EON,NND,R=F	Galaxy Sa pec sp	PB,L,E20,LBM
NGC 5507 May 19 2010 12"	7.5mmW	H49-4 PF,CS,OVAL,MEXT,FNUC,MR=G	Galaxy SAB(r)0^	CF,S,R,STELLAR
NGC 5534 May 18 2014 18"	8mm Ds	H552-3 PF,PS,OVAL,MEXT,FNUC,R=F	Galaxy (R')SAB(s)ab p:	PF,ST INV,*12NP
NGC 5549 May 18 2014 18"	8mm Ds	H579-2 PF,PS,VEXT,NND,R=G	Galaxy S0	VF,VS,R
NGC 5560 May 30 2016 12"	8mm Ds	H579-2 PF,PS,VEXT,NND,R=G	Galaxy SB(s)b pec	PF,CL,E,GBM

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NGC 5560		H579-2	Galaxy SB(s)b pec	PF,CL,E,GBM
May 23 2012 18"	8.8 ES	PB,PS,EON,FNUC,HSB,R=F,PA=150		
Apr 28 2006 31"	19mmW	B,PL,EON,UB,NND,R=F		
NGC 5566		H144-1	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
May 30 2016 12"	8mm Ds	PF,PS,PEXT,FNUC,R=G		
May 23 2012 18"	8.8 ES	PB,PS,OVAL,PEXT,BNUC,R=G, PAIRED WITH NGC-5569		
Apr 28 2006 31"	19mmW	CB,CL,EON,BNUC,HISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5569			Galaxy SAB(rs)cd:	EF,PL,R
May 30 2016 12"	8mm Ds	VF,VS,R,NND,R=F		
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,AV1,R=F, PAIRED WITH NGC-5566		
NGC 5574		H145-1	Galaxy SB0:-? sp	PF,PS,LE,P OF 2
May 30 2016 12"	7mm TV	PF,PS,OVAL,NND,R=F		
Apr 28 2006 31"	19mmW	F,CL,OVAL,UB,NND,R=F		
NGC 5576		H146-1	Galaxy E3	B,S,R,VSMBM,F OF 2
May 30 2016 12"	7mm TV	F,PS,OVAL,MEXT,FNUC,R=F		
Apr 28 2006 31"	19mmW	B,L,OVALBNUC,HISB,R=G		
NGC 5577			Galaxy SA(rs)bc:	PF,PL,VME53
May 30 2016 12"	8mm Ds	VF,PS,EON,UB,NND,AV1,R=F		
NGC 5599		H927-3	Galaxy Sb	F,S,LE
Apr 28 2006 31"	19mmW	F,PS,EON,NND,R=F		
NGC 5618		H763-3	Galaxy SB(rs)c	EF,S
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 5619			Galaxy SAB(rs)b	VF,S,R,VGBM
Apr 28 2006 31"	19mmW	PF,PS,EL,OVAL,FNUC,R=F		
NGC 5634		H70-1	Globular	GCL,VB,CL,R,GBM,RRR
May 30 2016 12"	8mm Et	F,S,R=F		
Apr 14 2016 12"	11mmT6	SURPRISE IN VIRGO.		
Apr 28 2006 31"	19mmW	PB,CL,R,R=G, CAN'T RESOLVE STARTS. VIII		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
NGC 5636		H580-2	Galaxy SAB(r)0+	EF,CL,R,NP OF 2
May 19 2010 12"	7.5mmW	VF,CS,OVAL,UB,NND,R=F		
NGC 5638		H581-2	Galaxy E1	CB,PL,R,SF OF 2
May 19 2010 12"	7.5mmW	PF,PS,R,UB,NND,R=F		
NGC 5652		H891-2	Non-Existent	PB,PL,VLE,BM

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NGC 5652		H891-2	Non-Existent	PB,PL,VLE,BM
Apr 28 2006 31"	19mmW	F,S,OVAL,UB,NND,R=F		
NGC 5661		H892-2	Galaxy SBb:	VF,PS,IE
Apr 29 2006 31"	19mmW	CF,PS,EON,NND,R=F		
NGC 5668		H574-2	Galaxy SA(s)d	F,PS,VLE,*14INV
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
NGC 5679A			Galaxy Sc	
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F, PA=45		
Apr 29 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 5679B			Non-Existent	
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F, PA=145		
Apr 29 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 5701		H575-2	Galaxy (R)SB(rs)0/a	CB,PS,R,MBM,*11P15S
May 30 2016 12"	8mm Ds	PF,PS,R,UB,NND,R=F		
Apr 29 2006 31"	19mmW	CB,S,R,FNUC,MSB,R=F		
NGC 5718		H550-3	Galaxy S0-:	VF,S,R,VGLBM,*8,9NF
May 23 2012 18"	8.8 ES	CF,PS,OVAL,MEXT,UB,NND,AV2,R=F		
Apr 18 2012 18"	11mmT6	PB,PS,EON,FNUC,HSB,R=G, PA=60		
NGC 5746		H126-1	Galaxy SAB(rs)b? sp	B,L,VME170,BMBN
May 04 2005 8"	11mmT6	VB,VL,EL,EON,FNUC,R=G		
NGC 5750		H183-1	Galaxy SB(r)0/a	PF,PS,VLE,R
May 19 2010 12"	7.5mmW	CF,PS,OVAL,UB,NND,R=F		
NGC 5774			Galaxy SAB(rs)d	PF,PL,R,NP OF 2
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
NGC 5775		H554-3	Galaxy SBc? sp	F,PS,VME148,GVLBM
May 19 2010 12"	7.5mmW	PF,PS,EON,UB,NND,R=F		
NGC 5806		H539-2	Galaxy SAB(s)b	CB,CL,E165,SBMN
May 19 2010 12"	7.5mmW	PF,PS,OVAL,MEXT,FNUC,R=F		
NGC 5813		H127-1	Galaxy E1-2	B,PS,R,PSMBM
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=G		
NGC 5831		H540-2	Galaxy E3	PB,S,MBM
May 19 2010 12"	7.5mmW	CF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 5838		H542-2	Galaxy SA0-	PB,PS

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NGC 5838		H542-2	Galaxy SA0-	PB,PS
May 19 2010 12"	7.5mmW	PF,PS,EON,FNUC,MUSB,R=F		
NGC 5839		H541-2	Galaxy SAB(rs)0^:	PF,PS
May 19 2010 12"	7.5mmW	CF,VS,R,FNUC,R=F		
NGC 5846		H128-1	Galaxy E0-1	VB,PL,R,PSBMN,F*INVS
May 19 2010 12"	7.5mmW	PF,PS,R,FNUC,R=G		
Apr 28 2006 31"	19mmW	CB,CL,R,FNUC,R=G		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
NGC 5846A			Galaxy cE2-3	
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 5850		H543-2	Galaxy SB(r)b	CF,S,LE,PSBM
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
NGC 5854		H544-2	Galaxy SB(s)0+ sp	PB,S,VLE,LBM,AM ST
May 19 2010 12"	7.5mmW	PF,PS,EON,FNUC,R=F		
NGC 5864		H585-2	Galaxy SB(s)0^? sp	PF,CS,ILE,GBM,*14F
May 19 2010 12"	7.5mmW	PF,PS,EON,UB,NND,R=F		
PGC 36325			Galaxy Pec	
May 18 2007 31"	17mmT4	VF,S,R,NND,R=F		
PGC 36723			Galaxy SAB(rs)b? pec	
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=P		
PGC 36733			Galaxy SB(s)b: pec	
May 18 2007 31"	17mmT4	PB,PS,EL,OVAL,NND,R=F		
PGC 36742			Galaxy SB(s)c pec	
May 18 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
PGC 40602			Galaxy S?	
Mar 30 2014 18"	7mm TV	VF,VS,R,UB,NND,R=F		
PGC 41410			Galaxy SAB(s)c:	
May 14 2007 31"	17mmT4	CF,CS,EL,OVAL,NND,R=F		
PGC 41666			Galaxy	
May 14 2007 31"	17mmT4	PF,CS,EON,UB,NND,R=F		
PGC 41726			Galaxy E	
May 14 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F		

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PGC 43728			Galaxy Sab
May 18 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G	
PGC 43762			Galaxy
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F	
PGC 43944			Galaxy S
May 18 2007 31"	17mmT4	DIFF,CF,PL,EON,UB,NND,R=F	
PGC 44358			Galaxy Sd: sp
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=100	
PGC 45084			Galaxy IB(s)m sp
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=110	
PGC 51389			Galaxy C
Apr 28 2006 31"	19mmW	VF,VS,R,NND,R=F	
PGC 51400			Galaxy SB(s)d
Apr 28 2006 31"	19mmW	CF,CS,OVAL,NND,R=F	
PGC 51622			Galaxy Sbc
Apr 28 2006 31"	19mmW	F,S,R,NND,R=F CLASS O1503	
PGC 51909			Galaxy Sc
Apr 29 2006 31"	19mmW	VF,VS,EON,NND,AV,R=F	
PGC 52199			Galaxy S0
Apr 29 2006 31"	19mmW	F,VS,R,NND,R=F	
PK 318+41.1			Planetary Neb 3b+3a
Jun 07 2010 12"	9mm	CF,PL,PATCHY, NO CENTRAL STAR DETECTED,R=P	

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CR 399			Open Cluster III3m	
Oct 09 2018	12"	35mm A	THE COATHANGER. VERY NICE CLUSTER.	
Jul 19 2017	12"	17mmT4	VERY NICE. R=G	
Nov 14 2006	1.9"	12x50	B,L,NO COMPRESSION,R=G	
IC 4954			Nebula R	
Nov 16 2012	18"	11mmT6	FAINT,SMALL,R=F	
NGC 6793			H81-8	Open Cluster III 2 p
Aug 18 2010	12"	11mmT6	PF,PS,R=F, STARS 10-12	CL,P,LC
NGC 6800			H21-8	Open Cluster 10.0 IV 1 p
Aug 18 2010	12"	11mmT6	PF,CS,R=P,STARS 8+?	CL,VL,PRI,VLC,ST10..
NGC 6802			H14-6	Open Cluster 14.0 I 1 m
Jul 23 2006	8"	11mmT6	PF,CS,R=F	CL,L,VC,E0,ST14...18
NGC 6813			Nebula E	**IN VF,S NEB
Nov 16 2012	18"	11mmT6	6-8 STARS WITH FAINT NEBULA,R=F	
NGC 6820			Nebula E	F,S,R,BM
Jun 20 2007	1.9"	12x50	PF,S,R=F, JUST DETECTED	
NGC 6823			H18-7	Open Cluster 8.8 I 3 m n
Jun 20 2007	1.9"	12x50	PF,PS, STARS 6+,R=F	CL,CRI,E,ST11...12
Jul 23 2006	8"	11mmT6	B,PS,R=F	
NGC 6827			Open Cluster 13.0 I 1 m	VF,E,DIF,SEV ST INV
Sep 02 2016	12"	8mm Et	F,S,R=F	
NGC 6830			H9-7	Open Cluster 10.0 II 2 p
Jul 23 2006	8"	11mmT6	B,PS,R=F	CL,L,PRI,PC,*11...12
NGC 6842			Planetary Neb 3b	F,PL,VLE
Sep 01 2008	31"	17mmT4	PF,PS,R=P. NO CENTRAL STAR	
NGC 6853			M27	Planetary Neb 3+2
Jul 08 2018	12"	17mmT4	B,L,R=E. NARROWBAND FILTER	VB,VL,BIN,IE,DUMBBEL
Sep 02 2016	12"	8mm Et	VERY NICE WITH/WITHOUT OIII.	
Aug 07 2016	12"	8mm Et	BRIGHT,LARGE,R=E. OUTSTANDING EVEN WITHOUT LP3.	
Aug 21 2015	12"	8mm Ds	LP2 FILTER	
Oct 21 2012	8"	11mmT6	B,L,R=G,SURPRISE UNDER THE STREETLIGHTS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Sep 13 2009	12"	32mmUV	1ST OBJECT WITH 12" SKYWATCHER & MANUAL SETTING CIRCLES	

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NGC 6853	M27	Planetary Neb 3+2	VB,VL,BIN,IE,DUMBDEL
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Sep 01 2008 31"	17mmT4	VB,CL,R=E. NO CENTRAL STAR	
Aug 12 2006 1.9"	12x50	F,S,R,R=F	
Mar 27 2006 8"	19mmW	B,L,R=G, LONG	
Aug 14 2004 8"	11mmT6		
Dec 26 2003 8"	25mmPL	Q/M COLD	
NGC 6882		H22-8	Open Cluster
Jul 23 2006 8"	11mmT6	PB,PS,R=F	CL,P,LC
NGC 6885		H20-8	Open Cluster 5.9 III 2 m
Jul 23 2006 8"	11mmT6	PB,PS,R=F	CL,VB,VL,RI,LC,*6.11
NGC 6921			Galaxy SA(r)0/a:
Sep 01 2008 31"	17mmT4	PF,S,R,FNUC,R=F	F,S,E
NGC 6940		H8-7	Open Cluster 11.0 III 2 r
Jul 19 2017 12"	17mmT4	VERY NICE. FULL AND SCATTERED.	CL,VB,VL,VRI,CC,STPL
Nov 14 2006 1.9"	12x50	F,S,LOOSER,R=F	
Jul 23 2006 8"	11mmT6	PB,PL,R=G	
NGC 7052		H145-3	Galaxy E
Sep 01 2011 31"	17mmT4	PB,PS,OVAL,PEXT,FNUC,R=G	F,S,VLE,R
Sep 01 2008 31"	17mmT4	PF,S,EL,OVAL,UB,NND,R=F	
NGC 7080			Galaxy SB(r)b
Sep 01 2008 31"	17mmT4	PF,S,R,FNUC,R=F	VF,S,VLE
PGC 66538			Galaxy
Sep 01 2011 31"	17mmT4	PF,CS,R,BNUC,R=G	