

Cygnus - The Swan

ABELL 78		Planetary Neb
Sep 18 2004 31"	17mmT4	VDIF,W/OIII,VF,ML,CNTR * ~13TH MAG,R,AREA OF NEB DET,R=F
B 349		Drk Nebula
Sep 18 2004 31"	25mm	VF,ML,DARK NEB,BLACK HOLE DET IN CNTR OF RICH * FOV,R=G
BI 2		Open Cluster III 2 p
May 12 2021 36"	31mmT5	(III 2 p),VB,PL,NICE D* BLUE/YELLOW, IN CNTR OF 1/2 CL,~12*S VAR MAG,NOT WELL CL,(4:57am),R=F
DOL 8		Open Cluster I 2pn
Sep 11 2004 31"	17mmT4	PB,ML,~15*S,LOOSLY SC,NICE IN FOV,ON EDGE OF 6914A,R=F
HENIZ 2-438		Planetary Neb 4
Sep 02 2008 31"	12mmT4	VB,VS,R,INNER CORE RING REDDISH,CNTR* 12TH MAG,F NEB SUR CNTR*,OIII NO HELP,R=F
Sep 02 2008 31"	17mmT4	VB,VS,R,INNER CORE RING REDDISH,CNTR* 12TH MAG,F NEB SUR CNTR*,OIII NO HELP,R=F
HENIZ 2-450		Planetary Neb 1
Jun 19 2004 31"	17mmT4	PF,ES,WITH OIII,ALM *,SMWHT BLUE,R=F
HU 1-2		Planetary Neb 2
Sep 02 2008 31"	17mmT4	MB,MS,HOUR GLS SHAPE,F NEB ARND,BLUEISH,NO CNTR*,OIII HELPS LTTL,MORE NEB DET,R=F
IC 1301		Galaxy Scd:
May 16 2004 31"	17mmT4	VF,VS,PATCH,UB,NND,R=P
IC 1302		Galaxy SAB(s)c?
Sep 11 2004 31"	17mmT4	PF,MS,OVAL,PATCH,FSNUC,BET *S ON BOTH SIDES,R=G
May 16 2004 31"	17mmT4	PF,VS,PATCH,UB,NND,CLOSE TO F*,R=P
IC 1303		Galaxy SAc:
Sep 11 2004 31"	17mmT4	PF,MS,OVAL,UB,4F*S IN A LINE IN GLXY,5 *S TOTAL,R=F
IC 1311		Open Cluster I 1 r n
Sep 11 2004 31"	25mm	PF,VL,NICE IN FOV,~10*S,SAME MAGNITUDE,FEW B*S IN FOV,R=G
IC 1318		Brn Nebula E
Sep 11 2004 31"	25mm	VDIF,VF,EL,W/OIII,SVRL FOV'S,SCAN AREA,NEB DET,R=F
IC 1369		Open Cluster II 2 m
Sep 18 2004 31"	25mm	MB,ML,~30*S,WELL PLACED,CL WELL,~SAME MAG,R=G
IC 1392		Galaxy S0-:
Sep 18 2004 31"	17mmT4	MB,ML,EL,BLNUC,BET *S,SLT BM,MHISB CNTR,PAIR=PGC,R=G
IC 4867		Galaxy S0
May 16 2004 31"	17mmT4	MF,MS,OVAL,BSNUC,PAIRS=6783/OTHERS,R=G

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IC 4867		Galaxy S0	
Jun 21 2003 12.5"	9mmT6	MB,PS,R,BNUC,MHISB,BLNUC,GBMB,COMP=PGC63211,R=G	
IC 4996		Open Cluster II 3 p n	APPROX 15 STARS
Jun 23 2003 12.5"	9mmT6	EB,PL,~20*,3B*S IN CNTR WITH FTR *S,VAR MAGNITUDES,R=G	
IC 5067		Brт Nebula EN	
Sep 19 2012 36"	31mmT5	VB,W/OIII,LOC NEXT TO NA NEB,RICH * FOV'S AND NEB DETAIL,ABLE TO SLEW AND TRACE OUTLINE,GOOD CONTRAST,R=E	
Sep 18 2004 31"	25mm	EDIF,EF,EL,SVRL FOV'S,SCAN AREA,NEB PATCHES DET,R=P	
IC 5068		Brт Nebula E	
Sep 18 2004 31"	25mm	VDIF,EF,EL,SVRL FOV'S,SCAN AREA,VF NEB PATCHES DET,R=P	
IC 5076		Brт Nebula E	
Sep 18 2004 31"	25mm	DIF,W/OIII,MF,PL,SHISB,NEB EASILY DET SUR B*,AV REVEALS MORE NEB,R=G	
IC 5117		Planetary Neb 2	
Sep 02 2008 31"	17mmT4	MB,VS,R,UB,BLUEISH BALL,CLOSE TO *,OIII HELPS LTTL,F NEB DET ARND BALL,NO CNTR*,R=F	
Sep 18 2004 31"	17mmT4	MB,VS,R,HISB,W/OIII,* CLOSE BY,B BLUE,VS DISC,F NEB DET WITH AV,R=F	
IC 5146		Brт Nebula E	
Sep 18 2004 31"	25mm	VDIF,VF,PL,HINT OF NEB DET,S CL OF ~6*S,OIII DOES NOT HELP,R=P	
KOH 4-37		Planetary Neb	
Jun 19 2004 31"	17mmT4	VDIF,EF,PS,WITH OIII,EDIF,KOHOUTEK 4-34,R=P	
KOH 4-41		Planetary Neb	
Sep 11 2004 31"	17mmT4	EF,ES,PATCH,W/OIII,JUST OUTSIDE 3 F*S,R=P	
MAC 1916+4604		Galaxy	
May 16 2004 31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,PAIRS=6783/OTHERS,R=F	
NGC 6764		Galaxy SB(s)bc	PF,PL,ME,SEVVF*INV
Jun 01 2003 12.5"	9mmT6	DIF,MF,PL,EL,PATCH,NND,R=F	
Jul 06 2002 12.5"	16mm	VDIF,PF,ML,UB,PATCHY	
NGC 6783		Galaxy C	EF,DIFFIC
May 16 2004 31"	17mmT4	MF,MS,OVAL,FLNUC,PAIRS=P63211/IC4867,MAC,R=F	
NGC 6798		Galaxy S0	F,VS,R,*VNR
Oct 12 2012 36"	17mmT4	PB,ML,OVAL BLNUC,HISB CNTR,GMBM,R=FG	
Jun 21 2003 12.5"	9mmT6	MB,MS,OVAL-R,BNUC,MHISB,GMBM,R=F	
Jul 06 2002 12.5"	16mm	EDIF,EF,PS,EL,PATCH,COMES AND GOES WITH AVERTED VISION,2F*S OFF ONE EDGE	
NGC 6801		Galaxy SAcd	EF,PS,R,F*S NR
Oct 12 2012 36"	17mmT4	MB,ML,OVAL,UB,NND,SHISB,F* CLOSE TO NUC AREA,R=FG	

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NGC 6801		Galaxy SAcd	EF,PS,R,F*S NR
Jun 21 2003 12.5"	9mmT6	MB,ML,OVAL,*NUC,VF* IN GLXY AND SUR GLXY,R=F	
NGC 6811		Open Cluster III 1 r	CL,L,PRI,LC,ST11..14
May 12 2021 36"	31mmT5	(II 1 r),VB,VL,ALM FILLS FOV,* SAME MAG,CL DET,NICE IN FINDER TOO!,MANY *S,(4:27am),R=FG	
Jun 06 1981 12.5"	16mm	VB,VL	
NGC 6819		Open Cluster I 1 r	CL,VL,VRI,*11...15
May 12 2021 36"	31mmT5	(I 1 r),MB,MS,NICE FOV,SPIDER LIKE CL,*S SIM MAG,CL EASILY DET,MANY *S,(4:48am),R=FG	
Sep 04 2002 12.5"	32mm	VP,VL,NICELY PLACED,~50*S,*S SIMUAR MAG	
NGC 6824		Galaxy SA(s)b:	PB,IF,BM
Oct 12 2012 36"	17mmT4	MB,ML,OVAL,LNUC,MHISB,VF* OUTER EDGE IN GLXY,GRADUALLY BIN CNTR,R=FG	
Jun 21 2003 12.5"	9mmT6	VB,VL,BNUC,VHISB,F* OFF TO EDGE,BLNUC,GMBM,R=E	
Jul 06 2002 12.5"	16mm	DIF,PF,MS,OVAL PATCH,UB,12MAG * CLOSE BY	
NGC 6826		H73-4 Planetary Neb 3a+2	PLN,B,PL,R,*11M
Sep 02 2008 31"	17mmT4	VB,VL,R,GREENISH TECTURE B BALL,CNTR* 10TH MAG,OIII NOT MUCH HELP,R=E	
Jul 24 1981 12.5"	16mm	GREENISH,BLINKING PLANTARY,CNTR* EASILY BLINKS WHEN LOOKING AT CNTR	
Jul 24 1981 12.5"	7mm	CNTR * NO LONGER BLINKS	
Jun 20 1980 12.5"	9mm	BCNTR * EASILY SEEN	
Jun 17 1980 12.5"	16mm	GREAT,GREENISH BLUE COLOR,USE BARLOW AND 16MM	
NGC 6833		Planetary Neb 2	PLN,STELLAR
Sep 02 2008 31"	17mmT4	MB,ES,R,GREENISH-BLUEISH,OIII NOT MUCH HELP,NO CNTR*,BM,BARELY DET IN FOV,R=P	
Sep 11 2004 31"	17mmT4	VB,PS,R,HISB,W/OIII,BBLUE BALL,F OUTER HALO DET,R=G	
NGC 6834		H16-8 Open Cluster II 2 m	CL,P,LC,*11...12
Sep 19 1984 12.5"	16mm	SAME,MB,MS,L DARK NEB NORTH SVRL DEGREES,STANDS OUT WELL	
Jul 30 1981 12.5"	24mm	MB,ML,EASILY DET,B* IN CNTR,S CL TO N SIDE	
NGC 6846		Open Cluster II 2	EF,VS,3*INV
Sep 11 2004 31"	17mmT4	PF,MS,~50*S,NICE IN 17MM,VAR MAGNITUDES,BG GLOW,R=G	
NGC 6857		H144-3 Brt Nebula HII	F,AM MILKY WAY ST
Jul 24 1981 12.5"	12mm	DIF,3 OR 4 F*S IN NEB,PATCHY	
NGC 6866		H59-7 Open Cluster II 2 r	CL,L,VRI,CC
Jun 06 1981 12.5"	16mm	MB,MS	
NGC 6871		Open Cluster II 2 p n	CL,ST L\$,D*INV
May 12 2021 36"	31mmT5	(II 2 p n),EB,EL,FILLS FOV,NEB DET ALM B*S,~10-15*S VAR MAG,SOME CL,W/OIII, MORE NEB,(4:52am),R=F	
Sep 11 2004 31"	25mm	VB,EL,~20*S,LOOSLY SC,VAR MAGNITUDES,R=F	
NGC 6874		H86-8 Open Cluster IV 1m n clust?	CL,P,LC
May 12 2021 36"	31mmT5	(CONT),W/OIII,F PATCH OF NEB DET ALM CL,NEB EASILY DET,NEARBY NEB BTR	

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NGC 6874		H86-8	Open Cluster IV 1m n clust?	CL,P,LC
May 12 2021 36"	31mmT5	(III 1 m n),VB,EL,*S SIM MAG,LOOSELY SC,SOME CL DET,2 B* NEARBY W/NEB,(4:35am),R=F		
NGC 6881			Planetary Neb 2a+3	PLN,STELLAR
Aug 15 2009 31"	17mmT4	MF,VS,R,GREENISH,SNUC WITH THIN FT OUTER NEB,OIII,DOESNOT HELP MUCH,R=F		
Sep 18 2004 31"	17mmT4	W/OIII,VF,VS,R,FIND FIRST WITH 25MM & * HOPPING,BLUEISH,VF HALO DET,R=F		
NGC 6883			Open Cluster IV 2 m n	CL,PRI,**INV
Jun 23 2003 12.5"	9mmT6	EB,EL,~30*,LOOSE,SC,R=F		
NGC 6884			Planetary Neb 2b	PLN,STELLAR
Sep 02 2008 31"	17mmT4	MB,PS,R,UB,OIII HELPS,BLUEISH BALL,NO CNTR*,EASILY DET IN FOV,R=F		
Jul 24 1981 12.5"	12mm	NOT SURE OF FIND,IN VOID BARREN * FIELD,DIF NEB SUSP		
NGC 6888		H72-4	Brt Nebula E	F,VL,VME,**ATT
Sep 19 2012 36"	31mmT5	VB,W/OIII,WELL PLACED IN FOV,2 DISTINCT HALVES,ONE BTHAN OTHER,L LOBS,E DETAIL,AMAZING,R=EE		
Sep 04 2002 12.5"	25mm	PB,PL,B NEB,2B*S WITH GLOW OF NEB BET AND SUR *S		
Sep 04 2002 12.5"	32mm	NEB EASILY DET		
NGC 6894		H13-4	Planetary Neb 4+2	RINGNEB,F,S,VVLE
Aug 15 2009 31"	17mmT4	MB,ML,OVAL,NO CNTR*,VF* IN EDGE OF RING,MINI M57,OIII,MORE NEB,EDGES FRAILED,R=E		
Sep 04 2002 12.5"	9mmT6	MF,PS,UB,OVAL,CNTR RGN DARK PATCH,ONE SIDE SLT BTR		
NGC 6910		H56-8	Open Cluster I 3 m n	CL,PB,PS,P,PC,*20.12
Aug 13 1982 12.5"	24mm	V LOOSE,~20 *S,PB,PL		
NGC 6913	M29		Open Cluster II 3 m n	CL,P,LC,STL\$\$
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Jun 23 2003 12.5"	9mmT6	EB,EL,~50*,VAR MAGNITUDES,WELL PLACED IN 9MM,R=G		
Jul 24 1981 12.5"	16mm	MB,ML		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jul 05 1980 12.5"	24mm			
Jun 20 1980 12.5"	24mm			
NGC 6914			Brt Nebula R	VF,VL,IR,DIF,2*ATT P
Sep 11 2004 31"	17mmT4	DIF,PF,VL,B NEB,AREAS OF NEB DET,BETTER W/O OIII,PAIRS=6914A,6914B,DOL8,R=G		
NGC 6914A			Brt Nebula R	
Sep 11 2004 31"	17mmT4	DIF,PF,ML,B NEB,BETTER W/O OIII,LESS NEB THEN OTHER PAIRS,R=F		
NGC 6914B			Brt Nebula R	
Sep 11 2004 31"	17mmT4	DIF,PF,VL,B NEB,AREAS OF NEB DET,BETTER W/O OIII,PAIRS=6914,6914A,DOL8,R=G		
NGC 6916			Galaxy SBbc	EEF,PS,F*NR P,VDIFFI
Oct 12 2012 36"	17mmT4	MF,ML,OVAL,VSFT NUC,F* IN PLAIN OF GLXY,R=F		
Jun 22 2003 12.5"	9mmT6	VDIF,VF,PS,PATCH,UB,NND,AV COMES AND GOES,2F*S IN GLXY,R=P		

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NGC 6960		H15-5	Brт Nebula E	PB,CL,EIF,KAPPACYGIN
Sep 26 2019 36"	17mmT4	W/OIII,EB,EEL,HISB,5 FOV'S,START AT EASTERN MOST PART,NEON LIGHT LIKE,STRANDS,EDGES VB,TWISTED ROPE,BEST TO DATE,VIEWED THE OTHER NON-IDENTIFIED AREAS LISTED IN MEGASTAR,SOME WERE VF AND S BUT DET,SOME VB AND VL,HISB,R=EEEE		
Sep 04 2002 12.5"	32mm	PB,EL,SNR,WHIPS ON BOTH SIDES OF B* EASILY DET,PARTS OF SNR HAVE HISB		
NGC 6979		H206-2	Brт Nebula EN	NEB*,NEBY CE PF
Sep 26 2019 36"	17mmT4	W/OIII,VB,VL,HISB,2-3 FOV'S,NOT AS STRING LIKE AS VEAL,NO NEON FILIMENTS,CHUNKY,PATCHY WITH HISB PARTS,R=EEE		
Sep 11 2004 31"	17mmT4	EDIF,VF,EL,SNR,DET NEB MORE ON NORTHERN EDGE THAN SOUTHERN,R=F		
NGC 6991		H76-8	Open Cluster III 2 n	CL,L,P,VLC
Sep 04 2002 12.5"	32mm	VB,EL,APROX 50*S,*S SIMILAR IN BRT,RICH * FIELD		
NGC 6992		H14-5	Brт Nebula E	EF,EL,EE,EIF,BIFID
Sep 26 2019 36"	17mmT4	W/OIII,EB,EEL,HISB,5 FOV'S,LOOKS MUCH LIKE 6960,BFILIMENTS,STRANDS,STRINGY ROPES V HISB,BNEON GLOW,R=EEEE		
Sep 04 2002 12.5"	32mm	VB,EEL,SNR,HISB,ARC GOES 2 FOV'S		
NGC 6996			Open Cluster III 2 m n	CL,P,LC
Sep 18 2004 31"	25mm	PB,PL,~25'I'S,SIMILAR MAG,WELL PLACED,*S CL LOOSLY,R=G		
NGC 6997		H58-8	Open Cluster III 2 m n	CL,P,LC,ST L
Sep 04 2002 12.5"	32mm	VB,EL,~40*S VARYING IN BRT,WELL PLACED IN 32MM		
NGC 7000		H37-5	Brт Nebula E	F,EEL,DIF NEBULOSITY
Sep 19 2012 36"	31mmT5	VB,W/OIII,ABLE TO SLEW ENTIRE OUTLINE OF NA NEB,NUMEROUS AREAS OF FINE NEB DETAIL,GULF AND S END OF MEX BEST CONTRAST,NICE D* IN MEX TIP - PINK & BLUEISH,R=EE		
Aug 13 1982 12.5"	32mm	FITS WELL IN EYEPIECE,FIRST TIME SEEN THIS WELL, IMPRESSIVE!!!		
Aug 11 1982 12.5"	32mm	EL,ONLY SERTAIN OUTLINES DET,HUNDREDS OF *S WITH COSTAL LINE EFFECT		
NGC 7008		H192-1	Planetary Neb 3	CB,L,E45,R,**ATT
Aug 15 2009 31"	17mmT4	MB,PL,PATCH,CNTR* 13TH,2 HALVES,BROKEN,ANOTHER 13TH * IN NEB,BLOBS BOTH ENDS,OIII,HELPS,MORE NEB,BBLOBS BOTH ENDS,CNTR* STILL VISIBLE,R=E		
Aug 11 1982 12.5"	16mm	MF,PL,BG COLOR,NW PART BRT,PATCHY-R,CNTR 14* DET,LOC E OF A FEW *S		
NGC 7013		H203-2	Galaxy SA(r)0/a	PB,CS,R,PSBM,PB*NP
Sep 18 2004 31"	17mmT4	PB,PL,EL,BLNUC,MHISB,L FARMS,HISB CNTR,VF* OFF NUC,SBM,R=G		
NGC 7024		H57-8	Open Cluster cluster?	CL,P,LC,ST10...
May 13 2021 36"	17mmT4	(IV 2 p),VB,EL,FILLS FOV,LOOSELY SC,*S VAR MAG,LTL CL DET,SCOPE UNDER MOUNT,EXT NE SKY,LAST HERSCHEL,R=F		
NGC 7026			Planetary Neb 3a	PB,BIN,PLN
Aug 23 2009 31"	12mmT4	MF,MS,HISB,SQ SHAPE,2 BARS BOTH SIDES OF CNTR REG,NO CNTR *,NEB EXTENDS BEYOND BARS BOTH SIDES,F* OFF ONE SIDE,OIII HELPS LTL,R=E		
Jul 24 1981 12.5"	12mm	DIF THRUT,9-10* W ~20 SEC,UB,EL IN SHAPE		
NGC 7027			Planetary Neb 3a	PLN,STELLAR=8.5M
Aug 23 2009 31"	12mmT4	VB,ML,HISB,B GREENISH BLUE,13TH MAG * IN NEB OFF CNTR,B NEB SUR *,NO CNTR*,IRR IN SHAPE,BROKEN PARTS,F NEB DET SUR BROKEN PARTS,OIII,HELP LTL,BLENDS BROKEN PARTS		

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NGC 7027		Planetary Neb 3a	PLN,STELLAR=8.5M
Jun 06 1981 12.5" 16mm	BLUE GREENISH,MB,PL		
NGC 7031		H74-8	Open Cluster III 2 m
Sep 04 2002 12.5" 32mm	PB,PL,FEW B*S WITH MANY F*S,EL IN SHAPE		CL OF TRIP ST,LC
NGC 7039		Open Cluster IV 2 m	CL,VL,PRI,E,ST,10...
Sep 18 2004 31" 25mm	VB,EL,V RICH AREA OF *S,CL LOST IN BG,R=P		
NGC 7044		H24-6	Open Cluster I 1 r
Aug 11 1982 12.5" 24mm	DIF,MF,VL,EL10-20 B*S SUR BY HUNDREDS F*S,F GLOW W/AVERTED VIS		CL,VF,PL,VRI,VC
NGC 7048		Planetary Neb 3b	PF,PL,DIF,IR,VLBM
Aug 23 2009 31" 12mmT4	MF,ML,OVAL,UB,3F*S IN NEB ONE SIDE,NO CNTR*,OIII,NOT UB,PATCHY,DARK AREAS,R=G		
Jun 06 1981 12.5" 16mm	GREENISH,DIF,MF,PL		
NGC 7062		H51-7	Open Cluster II 2 m
Aug 11 1982 12.5" 24mm	MB,ML,UNIFORM DIST,FEW B*S WITH F*S,R,~50*S		CL,PS,PRI,PC,ST13...
NGC 7063		Open Cluster III 1 p	CL,P,ST10...
Sep 18 2004 31" 25mm	PB,VL,~10*S,VAR MAG,LOOSLY SC,FILLS FOV,R=F		
NGC 7067		H50-7	Open Cluster II 1 p
Sep 04 2002 12.5" 32mm	PB,PS,~20*S,F PATCH IN CL		CL,P,(NEB)
NGC 7082		H52-7	Open Cluster IV 2 p
Sep 04 2002 12.5" 32mm	PB,VL,APROX 20-30 *S,LOC IN RICH * FIELD,DOES NOT STAND OUT WELL		CL,L,CRI,LC,ST10..13
NGC 7086		H32-6	Open Cluster II 2 m
Aug 11 1982 12.5" 24mm	MB,PL,~80*S,SMWHT DIVIDED IN CNTR,9...11 MAG *S		CL,CL,VRI,PC,*11..16
NGC 7092	M39	Open Cluster III 2 m	CL,VL,VP,VLC,*7...10
Mar 22 2004 12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981 12.5" 24mm	MESSIER MARATHON 1981		
Jun 17 1980 12.5" 24mm			
NGC 7116		Galaxy S?	VF,PL,ME
Sep 18 2004 31" 17mmT4	MF,ML,EL,UB,NND,VF* IN TIP,SHISB,R=G		
NGC 7127		Open Cluster IV 1 p	CL,S,P,LC
Sep 18 2004 31" 17mmT4	PB,ML,~10*S,SIM IN MAG,LOOSLY SC,NICE IN 17MM,R=F		
NGC 7128		H40-7	Open Cluster I 3 m
Aug 11 1982 12.5" 24mm	MB,PS,5 OR 6 B*S CIRCLING FTR *S,STANDS OUT WELL,~40 *S		CL,S,PRI,HASARUBY*9
PGC 63211		Galaxy S	
May 16 2004 31" 17mmT4	EF,ES,PATCH,NND,SUSP,LOC GOOD,PAIRS=6783/OTHERS,R=P		

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PGC 63211

Galaxy S

Jun 21 2003 12.5" 9mmT6 VDIF,EF,MS,PATCH,UB,COMP=IC4867,AV,R=P

PGC 63299

Galaxy Scd:

Sep 11 2004 31" 17mmT4 DIF,VF,MS,OVAL,UB,NND,2 VF*S IN GLXY

PGC 67025

Galaxy S0

Sep 18 2004 31" 17mmT4 MF,MS,EL,PATCH,* IN EDGE,SMWHT BM,PAIR=IC1392,R=F

SH1 89

Planetary Neb 3a

Sep 02 2008 31" 17mmT4 EDIF,EF,MS,OVAL,UB,STAR HOP,BARELY VIS W/AV,OIII HELPS GREATLY,NEB DET,NO CNTR*,R=P