

## Orion - The Hunter

**ABELL 12****Planetary Neb**

Jan 24 2004 31" 16mmT5 MF,PL,OVAL,UB,SHISB,WITH OIII,R=G  
 Jan 24 2004 31" 17mmT4 NEB NOT VISIBLE WITHOUT OIII,R=P  
 Jan 24 2004 31" 24mmTP MF,MS,OVAL,UB,MHISB,WITH OIII,\* CLOSE BY ALM TOUCH,R=G

**B 33****Drk Nebula Ir**

Oct 12 2012 36" 17mmT4 VF,VL,W/HBETA,BEST TO DATE,HH EASILY DET,COULD EASILY FOLLOW IC434 OUTLINE FROM BOTH SIDES OF HH NECK,R=E  
 Dec 19 2006 31" 31mmT5 VF,PL,W/H-BETA,SHAPE AND OUTLINE EASILY DET,IC434 BG NEB EASILY DET,R=E  
 Feb 20 2006 31" 31mmT5 W/BETA,VF,EL,DARK NEB,ABSOLUTELY AMAZING,STR,OUTLINE,DUST,GAS,R=E  
 Dec 07 2005 31" 31mmT5 VDIF,MF,VL,W/BETA,FIRST VIEWING WITH 31MM/BETA,AWSOME,COMPLETE OUTLINE DET,IC434 BG GAS DET,R=E  
 Feb 15 2004 31" 12mmT4 H-BETA FILTER,L DARK AREA EASILY SEEN,SHAPE NOT AS NOTICABLE,40MM BTR,R=F  
 Feb 15 2004 31" 40mm DARK NEB,VF,ML,H-BETA FILTER,AWSOME,ENTIRE SHAPE DET,BEST TODATE,R=E  
 Jan 24 2004 31" 17mmT4 WITHOUT OIII,JUST BARELY ABLE TO DETECT DARD AREA,LOC GOOD,R=P  
 Jan 24 2004 31" 24mmTP HORSEHEAD NUB,JUST ABLE TO NOTICE A DARK AREA,LOG GOOD,R=P

**CR 69****Open Cluster III 3 p n**

Nov 13 2020 36" 17mmT4 (III 3 p n),W/OIII,NEB DET SWEEPING AREA,SVRL FOV'S,(3:05am),R=P  
 Nov 13 2020 36" 55mm (III 3 p n),EB,EEEL,VB\* IN CL,TOO L FOR ANY EYEPIECE,BEST IN FINDER (50% FOV),NEB DET,(3:01am),R=P

**IC 392****Galaxy S0**

Sep 30 2005 31" 17mmT4 MF,MS,EL-OVAL,FLNUC,VF\* IN EDGE,R=F

**IC 395****Galaxy S0:****EF, VS, R, F\* CLOSE F**

Oct 04 2005 31" 17mmT4 PF,PS,OVAL,FSNUC,R=F

**IC 404****Galaxy**

Oct 01 2005 31" 17mmT4 PF,PS,R,VFSNUC,F\* OFF EDGE,R=F

**IC 409****Galaxy S**

Oct 01 2005 31" 17mmT4 PF,PS,PATCH,FLNUC,PAIR=MAC,R=F

**IC 412****Galaxy Sab**

Oct 01 2005 31" 17mmT4 MF,MS,EL,FSNUC,FORMS A TRI WITH A \*,PAIR=IC413,R=F

**IC 413****Galaxy S0**

Oct 01 2005 31" 17mmT4 MF,MS,EL,FSNUC,FORMS A TRI WITH A \*,PAIR=IC412,R=F

**IC 414****Galaxy**

Oct 01 2005 31" 17mmT4 DIF,VF,ML,OVAL,PATCH,UB,NND,R=F

**IC 420****Brn Nebula R**

Feb 20 2006 31" 31mmT5 VDIF,EF,VS,V LTL NEB DET SUR \*,W/OIII,LTL MORE NEB DET,R=P

**IC 421****Galaxy SAB(rs)bc**

Oct 01 2005 31" 17mmT4 VDIF,EF,VL,OVAL,UB,NND,SVRL F\*'S IN AREA OF PATCH,FARMS SUSP,R=P

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<b>IC</b>	<b>423</b>		<b>Brtn Nebula R</b>
Mar 04 2021	36"	31mmT5	(Lb 2),DIF,W/OIII,MF,MS,PATCH,F* IN CNTR,DARK LANE,BKN,EDGES NOT DEF,V HARD TO DET W/O OIII,(8:51pm),R=F
Feb 20 2006	31"	31mmT5	W/OIII,LOC GOOD,A HINT OF NEB SUSPECTED,AV,SUSP,R=P
<b>IC</b>	<b>424</b>		<b>Brtn Nebula R</b>
Mar 03 2021	36"	31mmT5	(Lb 3),DIF,PF,PS,PATCH,SEV F*S IN AND SUR NEB,W/OIII,F BG GLOW SUR *S,NO EDGES,17MM HARD TO DET,(8:45pm),R=F
Feb 20 2006	31"	31mmT5	W/OIII,EDIF,VF,VL,JUST A HINT OF NEB DET,S VF GRP OF *S IN NEB,R=P
<b>IC</b>	<b>426</b>		<b>Brtn Nebula R</b>
Mar 04 2021	36"	31mmT5	(Lb 2),DIF,VF,MS,W/OIII,NEB EASILY DET SUR *S THEN FADES,RECT IN SHAPE,EDGES NOT WELL DEF,(9:00pm),R=F
Feb 20 2006	31"	31mmT5	W/OIII,VDIF,EF,VL,SOME HINT OF NEB DET,PATCHY AREAS,AV,SUSP,R=P
<b>IC</b>	<b>430</b>		<b>Brtn Nebula R</b>
Feb 21 2006	31"	31mmT5	EDIF,EF,VL,SUSP,WITH OIII ONLY NEB SUR B* DET,R=P
<b>IC</b>	<b>431</b>		<b>Brtn Nebula R</b>
Jan 24 2009	31"	17mmT4	W/OIII,MF,MS,F NEB SUR CLOSE DBL *,R=F
Feb 21 2006	31"	31mmT5	VDIF,VF,VL,OVAL-R,PATCH,W/OIII,NEB SUR B* DET,OTHER *S NO NEB,PAIR=IC432,R=P
<b>IC</b>	<b>432</b>		<b>Brtn Nebula R</b>
Mar 04 2021	36"	31mmT5	(Lb 1),DIF,VB,MS,W/OIII,OVAL PATCH OF NEB WITH B* IN CNTR,V GRAN,EDGES NOT WELL DEF,(9:07pm),R=G
Jan 24 2009	31"	17mmT4	VF,PS,OIII HELPS DETECT MORE NEB,V LTL NEB DET WITHOUT OIII,R=P
Feb 21 2006	31"	31mmT5	W/OIII,VDIF,VF,VL,OVAL-R,PATCH SUR B*,SIM *S NO NEB,PAIR=IC431,R=P
<b>IC</b>	<b>434</b>		<b>Brtn Nebula E</b>
Mar 05 2021	36"	31mmT5	(Lb 1),DIF,MF,EEL,W/OIII,BET THAN UHC,SEV FOV'S,EDGE DET BOTH SIDES OF HORSEHEAD,SEE PREVIOUS OBS,H-BETA FILTER BEST FOR HH,(8:42PM),R=F
Oct 12 2012	36"	17mmT4	DIF,W/HBETA,NEB CONTAINS HH NEB,OUTLINE OF DIF NEB EASILY FOLLOWED FROM BOTH SIDES OF HH NECK FOR SVRL FOV'S,R=G
Feb 21 2006	31"	31mmT5	VF,EL,NEB SUR HORSEHEAD,NEB DET W/WO FILTERS,BEST WITH H-BETA,R=G
<b>IC</b>	<b>435</b>		<b>Brtn Nebula R</b>
Mar 05 2021	36"	31mmT5	(Lb 1),DIF,MB,MS,W/OIII,SIM TO N2023 BUT SM,(8:54pm),R=F
Jan 24 2009	31"	17mmT4	MF,MS,OIII DOESNOT HELP AT ALL,F NEB SUR B* W/O OIII,R=F
Jan 24 2004	31"	24mmTP	DIF,MF,MS,PATCH,UB,WITH OIII,PATCHY NEB SUR *,1/2 SIZE OF 2023,R=F
<b>IC</b>	<b>2093</b>		<b>Galaxy S</b>
Oct 04 2005	31"	17mmT4	MB,MS,R,UB,NND,SHISB,R=F
<b>IC</b>	<b>2112</b>		<b>Galaxy SAd: sp</b>
Oct 01 2005	31"	17mmT4	PF,MS,EL,PATCH,UB,NND,PAIR=MAC,R=F
<b>IC</b>	<b>2162</b>		<b>Brtn Nebula E</b>
Feb 21 2006	31"	31mmT5	W/OIII,PB,PL,SLT MORE NEB DET,MHISB,PAIRS=SH2'S,R=G
Feb 21 2006	31"	31mmT5	MB,PL,PATCH,NEB DET SUR CNTR *,R=F

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<b>J</b>	<b>320</b>		<b>Planetary Neb 2+4</b>
	Dec 28 2008 31"	17mmT4	PF,VS,NO CNTR*,VS UB BALL,BLUEISH,OIII DOESNOT HELP MUCH,R=G
	Oct 04 2005 31"	17mmT4	VB,PS,R,WOIII,B BLUE,SOME F NEB DET OUTSIDE R BALL,R=G
<b>MAC</b>	<b>0447-0208</b>		<b>Galaxy</b>
	Sep 30 2005 31"	17mmT4	EF,VS,PATCH,AV,PAIR=1661,R=P
<b>MAC</b>	<b>0451-0235</b>		<b>Galaxy</b>
	Sep 30 2005 31"	17mmT4	VF,PS,PATCH,UB,NND,PAIR=1678/PGC16180,R=P
<b>MAC</b>	<b>0452-0304</b>		<b>Galaxy</b>
	Sep 30 2005 31"	17mmT4	VF,VS,PATCH,UB,NND,PAIRS=NGC'S,R=P
<b>MAC</b>	<b>0459-0030</b>		<b>Galaxy</b>
	Oct 01 2005 31"	17mmT4	VF,VS,PATCH,UB,NND,PAIR=PGC16481,R=P
<b>MAC</b>	<b>0500+0425</b>		<b>Galaxy</b>
	Oct 01 2005 31"	17mmT4	VF,VS,PATCH,UB,NND,VF* IN EDGE OR CLOSE BY,PAIR=IC2112,R=P
<b>MAC</b>	<b>0516+0619</b>		<b>Galaxy</b>
	Oct 12 2012 36"	17mmT4	PF,PS,OVAL-R,NND,SHISB,* ON EDGE,R=PF
<b>MAC</b>	<b>0516+0620</b>		<b>Galaxy</b>
	Nov 17 2012 36"	17mmT4	VF,VS,PATCH,AGC 539,R=F
	Oct 12 2012 36"	17mmT4	VF,VS,PATCH,AGC539,R=P
<b>MAC</b>	<b>0516+0621</b>		<b>Galaxy</b>
	Oct 12 2012 36"	17mmT4	VF,ES,PATCH,F* OFF EDGE,AGC539,R=P
<b>MAC</b>	<b>0516+0622</b>		<b>Galaxy</b>
	Nov 17 2012 36"	17mmT4	EF,ES,PATCH,AV HOLDS,AGC 539,R=P
	Oct 12 2012 36"	17mmT4	VF,ES,PATCH,AF FIRST THEN HOLDS,AGC539,R=P
<b>MAC</b>	<b>0516+0623</b>		<b>Galaxy</b>
	Nov 17 2012 36"	17mmT4	VF,VS,PATCH,AGC 539,R=P
	Oct 12 2012 36"	17mmT4	VF,ES,PATCH,AV FIRST THEN HOLDS,AGC539,R=P
<b>MAC</b>	<b>0516+0626A</b>		<b>Galaxy</b>
	Nov 17 2012 36"	17mmT4	PF,VS,EL,FSNUC,AGC 539,R=F
	Oct 12 2012 36"	17mmT4	PF,VS,OVAL,FLNUC,R=PF
<b>MAC</b>	<b>0516+0626C</b>		<b>Galaxy</b>
	Nov 17 2012 36"	17mmT4	PF,PS,EL,NND,TOUCH MAC0516+0626B,BOTH IRR IN SHAPE,CAN JUST BARELY SEP,AGC 539,R=F
	Oct 12 2012 36"	17mmT4	PF,VS,PATCH,CAN JUST BARELY SPLIT COMP=MAC,AGC539,R=PF
<b>MAC</b>	<b>0516+0627B</b>		<b>Galaxy</b>
	Nov 17 2012 36"	17mmT4	PF,PS,EL,NND,TOUCH MAC0516+0626C,BOTH IRR IN SHAPE,CAN JUST BARELY SEP,AGC 539,R=F

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<b>MAC 0516+0627B</b>		<b>Galaxy</b>	
Oct 12 2012 36"	17mmT4	PF,VS,PATCH,CAN JUST BARELY SPLIT COMP=MAC,AGC539,R=PF	
<b>MAC 0516+0627C</b>		<b>Galaxy</b>	
Nov 17 2012 36"	17mmT4	PF,VS,PATCH,NND,AGC 539,R=PF	
Oct 12 2012 36"	17mmT4	VF,VS,PATCH,UB,AGC539,R=P	
<b>MAC 0516+0629B</b>		<b>Galaxy</b>	
Nov 17 2012 36"	17mmT4	EF,VS,PATCH,AV TOOK AWHILE,AGC 539,R=P	
Oct 12 2012 36"	17mmT4	EF,ES,PATCH,TOOK AV A WHILE,AV HOLDS A FEW TIMES,AGC539,R=P	
<b>MAC 0516+0630A</b>		<b>Galaxy</b>	
Nov 17 2012 36"	17mmT4	PF,PS,OVAL,NND,AGC 539,R=F	
Oct 12 2012 36"	17mmT4	EF,ES,PATCH,TOOK AV A WHILE,F* JUST OFF ONE SIDE,AV FIRST THEN HOLDS,AGC539,R=P	
<b>MAC 0516+0630B</b>		<b>Galaxy</b>	
Nov 17 2012 36"	17mmT4	PF,PS,OVAL,NND,AGC 539,R=F	
Oct 12 2012 36"	17mmT4	PF,VS,OVAL,FSNUC,AGC539,R=PF	
<b>MAC 0516+0630C</b>		<b>Galaxy</b>	
Nov 17 2012 36"	17mmT4	PF,VS,UB,NND,CLOSE TO *,AGC 539,R=F	
Oct 12 2012 36"	17mmT4	VF,VS,PATCH,* ON OUTER EDGE,AGC539,R=P	
<b>MAC 0516+0633A</b>		<b>Galaxy</b>	
Oct 12 2012 36"	17mmT4	EF,ES,PATCH,AV,AGC539,R=P	
<b>MAC 0517+0629</b>		<b>Galaxy</b>	
Oct 12 2012 36"	17mmT4	EF,ES,*NUC OR VF* IN CNTER,AV FIRST THEN HOLDS,AGC539,R=P	
<b>MAC 0517+0630A</b>		<b>Galaxy</b>	
Oct 12 2012 36"	17mmT4	EF,VS,PATCH,AV FIRST THEN HOLDS,TOOK AV A WHILE,AGC539,R=P	
<b>MAC 0519+0319</b>		<b>Galaxy</b>	
Oct 01 2005 31"	17mmT4	EF,VS,PATCH,AV,PAIR=IC409,R=P	
<b>MAC 0552-0736</b>		<b>Galaxy</b>	
Dec 07 2005 31"	17mmT4	VF,VS,PATCH,NND,R=P	
<b>NGC 1661</b>		<b>Galaxy SA(s)bc pec:</b>	<b>VF,VS,BM</b>
Sep 30 2005 31"	17mmT4	PF,MS,OVAL,FSNUC,SMWHT BM,PAIR=MAC,R=F	
<b>NGC 1662</b>		<b>H1-7</b>	<b>Open Cluster II 3 m</b>
Nov 13 2020 36"	55mm	(II 2 p),EB,EL,WELL PRESENTED IN FOV,~20*S VAR MAG,STANDS OUT,*S IN PAIRS OF 2,(1:55am),R=F	<b>CL OF L\$S SC ST</b>
Sep 06 2002 12.5"	24mm	PB,PL,APROX 15 *S,LOOSELY SC,STANDS OUT WELL	
<b>NGC 1663</b>		<b>H7-8</b>	<b>Open Cluster IV 2 p</b>
			<b>CL,LRI,ST L\$S</b>

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<b>NGC 1663</b>		<b>H7-8</b>	<b>Open Cluster IV 2 p</b>	<b>CL,LRI,ST L\$S</b>
Sep 06 2002 12.5"	9mmT6	PB,ML,~20*S,305 B*S WITH FTR OTHERS,TAKES POWER WELL		
<b>NGC 1670</b>		<b>H501-3</b>	<b>Galaxy SA0^:</b>	<b>VF,VS</b>
Sep 30 2005 31"	17mmT4	MB,MS,OVAL,BLNUC,MHISB CNTR,R=G		
<b>NGC 1678</b>		<b>H502-3</b>	<b>Galaxy SA0^ pec?</b>	<b>VF,S</b>
Sep 30 2005 31"	17mmT4	MB,MS,EL,BLNUC,PAIRS=PGG/MAC,R=G		
<b>NGC 1682</b>		<b>H527-2</b>	<b>Galaxy E/S0</b>	<b>VF,VS,1684F12S,*9S4'</b>
Sep 30 2005 31"	17mmT4	PF,PS,R,BLNUC,MHISB CNTR,PAIRS=NGC'S,R=F		
<b>NGC 1683</b>			<b>Galaxy Sa</b>	<b>VF,R</b>
Sep 30 2005 31"	17mmT4	MF,MS,EDGE ON,FSNUC,PAIRS=NGC'S,R=F		
<b>NGC 1684</b>		<b>H528-2</b>	<b>Galaxy E+ pec:</b>	<b>PF,PS,R,BM,*9SF</b>
Sep 30 2005 31"	17mmT4	MB,ML,EL,BNUC,EL NUC OR BAR,HISB CNTR,PAIRS=NGC'S,R=G		
<b>NGC 1685</b>			<b>Galaxy SB(r)0/a</b>	<b>F</b>
Sep 30 2005 31"	17mmT4	PB,PL,OVAL,FLNUC,SLT BM,PAIRS=NGC'S,R=G		
<b>NGC 1690</b>			<b>Galaxy SB(s)b</b>	<b>VF,VS,AM VS ST,L*SP</b>
Sep 30 2005 31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,PAIR=PGC16290,R=F		
<b>NGC 1691</b>			<b>Galaxy (R)SB(s)0/a:</b>	<b>F,S,*11INV</b>
Oct 01 2005 31"	17mmT4	MB,MS,OVAL,BSNUC,MHISB CNTR,SBM,R=F		
<b>NGC 1709</b>			<b>Galaxy SB0^:</b>	<b>VF,VS,1713NP</b>
Oct 01 2005 31"	17mmT4	MF,MS,OVAL,FSNUC,PAIR=PGC'S/1713,R=F		
<b>NGC 1713</b>		<b>H516-2</b>	<b>Galaxy E+:</b>	<b>F,S,R,BM</b>
Oct 01 2005 31"	17mmT4	MB,PL,OVAL,FLNUC,MHISB CNTR,PAIR=PGC'S/1709,R=G		
<b>NGC 1719</b>			<b>Galaxy Sa: sp</b>	<b>PF,S,IR,PSLBM</b>
Oct 30 1981 12.5"	12mm	VDIF,VF,MS,PATCHY-OVAL,NNS		
<b>NGC 1729</b>		<b>H503-3</b>	<b>Galaxy SA(s)c</b>	<b>VF,PL,2B*V NR</b>
Oct 01 2005 31"	17mmT4	MB,PL,OVAL,SOME SPR STR SUSP,PATCHY,NND,MHISB,R=G		
<b>NGC 1740</b>			<b>Galaxy S0-:</b>	<b>EF,VS,*12SP</b>
Oct 01 2005 31"	17mmT4	MB,PS,R,BSNUC,MHISB,SBM,F* CLOSE BY,R=G		
<b>NGC 1753</b>			<b>Galaxy (R')SBa pec?</b>	<b>EEF,PS,R,SF1740</b>
Oct 01 2005 31"	17mmT4	DIF,VF,PL,OVAL,PATCH,UB,NND,VF* IN EDGE,R=F		
<b>NGC 1762</b>		<b>H453-3</b>	<b>Galaxy SA(rs)c:</b>	<b>VF,VS</b>
Sep 06 2002 12.5"	9mmT6	DIF,PF,MS,OVAL,*NUC,SBM,MHISB		

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<b>NGC 1788</b>		<b>H32-5</b>	<b>Brn Nebula R</b>	<b>B,CL,R,BM,***15,*1'F</b>
Mar 05 2021 36"	17mmT4	(Lb 1),DIF,MB,PL,W/OIII,* IN EDGE OF BTEST PART OF NEB,BTR * CLOSE BY WITH NEB SUR		
Oct 16 1982 12.5"	16mm	BH2 RGN OR BET NEB AND *		
Oct 16 1982 12.5"	24mm	PB,ML,EL,BM,B* TO W IN NEB,VMBM		
<b>NGC 1819</b>			<b>Galaxy SB0</b>	<b>VF,S,R</b>
Oct 01 2005 31"	17mmT4	MF,MS,OVAL,FLNUC,SHISB CNTR,R=G		
<b>NGC 1843</b>			<b>Galaxy SAB(s)cd:</b>	<b>F,S,R,LBM</b>
Oct 01 2005 31"	17mmT4	PF,PL,OVAL,UB,NND,R=G		
<b>NGC 1875</b>			<b>Galaxy S0?</b>	<b>EF,S,R</b>
Oct 01 2005 31"	17mmT4	PF,MS,R,FLNUC,SHISB CNTR,PAIR=PGC'S,R=F		
<b>NGC 1924</b>		<b>H447-3</b>	<b>Galaxy SB(r)bc</b>	<b>VF,PL,IR,ST NR</b>
Oct 01 2005 31"	17mmT4	DIF,PF,ML,PATCH,NND,VF* ON EDGE,R=F		
<b>NGC 1975</b>			<b>Brn Nebula E</b>	<b>B**INV IN NEB</b>
Mar 05 2021 36"	31mmT5	(Lb 1),DIF,EB,EEL,UHC BTR THAN OIII,MORE NEB DET,MANY B*S WITH NEB,SLEWING REVEALS		
Feb 20 2006 31"	31mmT5	PATCHY AREAS, DARK SPOTS,EDGE NOT DEF,(8:24pm),R=G		
		W/OIII,DIF,PB,EL,PATCHES OF NEB DET,DARK AREAS,NEB SUR B*S OF NGC1977,R=E		
<b>NGC 1976</b>	<b>M42</b>		<b>Brn Nebula EN+RN</b>	<b>THETAORI \$GREAT NEB</b>
Sep 22 2022 12.5"	17mmT4	EB,EL,REDS,PINKS,GREENISH,BLUEISH,BEST EVER TODATE,BREATH TAKING,DET		
Mar 05 2021 36"	31mmT5	EVERYWHERE,R=EEE		
Mar 08 2013 36"	17mmT4	(Lb 1),DIF,EB,EL,W/UHC, DETAIL BEYOND DESCRIPTION,UHC DETAILS NEB DIF THAN		
Feb 05 2005 31"	31mmT5	OIII,(8:10pm),R=EEE		
Dec 04 2004 31"	31mmT5	MESSIER MARATHON 2013		
Dec 04 2004 31"	31mmT5	EEB,EEL,SVRL FOV'S,AWSOME,COLORS DET,R=E		
Mar 19 2004 12.5"	12mmT4	DIF,EB,EL,WITH OIII,EVEN BTR,MORE NEB DET,MUCH MORE DETAIL,THE BEST,R=E		
Mar 02 1984 10"	20mm	DIF,EB,EL,2 FOV'S,ABSOLUTLY THE BEST EVER SEEN TO DATE,COLOR AND SHADES OF COLOR		
Mar 27 1982 12.5"	24mm	MESSIER MARATHON 2004		
Mar 27 1981 12.5"	24mm	SAME		
Dec 03 1980 12.5"	24mm	VB,ML,3 SHADES OF COLOR VIS,DARK PATCHES,BEAUTIFUL!!!		
Oct 31 1980 12.5"	24mm	MESSIER MARATHON 1981		
Oct 29 1980 8"	24mm			
Sep 18 1980 12.5"	24mm	TRAPIZUM BLUE-GREEN,BLUER AS YOU GO OUT,TIPS SHOW RED		
Sep 10 1980 12.5"	24mm			
Sep 09 1980 12.5"	24mm			
Aug 22 1980 12.5"	24mm	BEAUTIFUL!!!		
<b>NGC 1977</b>		<b>H30-5</b>	<b>Open Cluster</b>	<b>42ORIONIS\$NEB</b>
Sep 06 2002 12.5"	32mm	VB,PL,~5 *S ASSOC WITH M43		
<b>NGC 1980</b>		<b>H31-5</b>	<b>Open Cluster III 3 m n</b>	<b>VF,VVL,44ORIONIS INV</b>
Oct 16 1982 12.5"	24mm	MB,ML,B* IN CNTR,2F*S CLOSE TO B*,L OVAL AREA SUR B*,CLOSE TO M42		

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<b>NGC 1980</b>		<b>H31-5</b>	<b>Open Cluster III 3 m n</b>	<b>VF,VVL,44ORIONIS INV</b>
Sep 09 1980 12.5"	24mm	NEB SUR A NICE DBL *		
<b>NGC 1981</b>			<b>Open Cluster III 3 p n</b>	<b>CL,VB,LRI,ST L,SC</b>
Mar 03 2021 36"	55mm	(III 3 p),~20"S,SC,FILLS FOV,VAR MAG'S,(7:20pm),R=F		
Oct 01 2005 31"	31mmT5	EB,EL,~15"S LOOSELY SC,FILLS FOV,SOME CL DET,R=F		
<b>NGC 1982</b>	<b>M43</b>	<b>H1-3</b>	<b>Brn Nebula E</b>	<b>VB,VL,RW/TAIL,MBM*8</b>
Mar 08 2013 36"	17mmT4	MESSIER MARATHON 2013		
Dec 04 2004 31"	31mmT5	DIF,EB,EL,WITH OIII,SHADES OF COLORS,INCREDIBLE DETAIL,BEST SEEN TO DATE,R=E		
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	SAME		
Mar 27 1982 12.5"	24mm	MF,PL,OVERWHELMED BY M42,R,BLUE GREEN GAS,2"S IN NEB		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Dec 03 1980 12.5"	24mm			
Oct 31 1980 12.5"	24mm			
Oct 29 1980 8"	24mm			
Sep 18 1980 12.5"	24mm			
Sep 10 1980 12.5"	24mm			
Aug 22 1980 12.5"	24mm			
<b>NGC 1990</b>		<b>H34-5</b>	<b>Brn Nebula E+R</b>	<b>EL,E,EPSILONORI INV P</b>
Mar 05 2021 36"	31mmT5	(Lb 1),DIF,EB,VL,OIII DET MORE NEB THAN UHC,VB* IN MID WITH HALO OF NEB,(8:30pm),R=P		
Mar 22 2004 12.5"	25mm	DIF,VF,ML,W/OIII,HINT OF NEB SUR B* DET,R=P		
<b>NGC 1999</b>		<b>H33-4</b>	<b>Brn Nebula E</b>	<b>*10,11INV IN NEB</b>
Mar 04 2021 36"	31mmT5	(Lb 1),DIF,PB,VS,NEB EASLY SEEN SUR B*,PATCHY,GRAN,W/OIII,MORE NEB DET,GRAN,VMBM,(8:56pm),R=FG		
Feb 20 2006 31"	31mmT5	W/OIII,DIF,MB,VL,NEB DETAIL DET SUR *,R=G		
Oct 16 1982 12.5"	24mm	MB,PS,BNUC,VMBM,R,12MM-EYE APPEARANCE,TAPERED ENDS,SOME DARK AREA IN NEB		
<b>NGC 2022</b>		<b>H34-4</b>	<b>Planetary Neb 4+2</b>	<b>PLN,PB,VS,VLE</b>
Dec 28 2008 31"	17mmT4	MB,ML,R,PATCH,VF CNTR* WITH AV,EDGES FRAILED,OIII DOESNOT HELP MUCH,R=G		
Dec 30 1983 12.5"	12mm	MF,PS,NO CNTR * DET,R,UB,LINE OF F*S OFF TO BOTH SIDES		
Oct 31 1980 12.5"	24mm	LOOKS LIKE PALE GREY *		
Sep 10 1980 12.5"	24mm			
Sep 10 1980 12.5"	32mm	EASILY DET,NICE		
<b>NGC 2023</b>		<b>H24-4</b>	<b>Brn Nebula R+E</b>	<b>B*IN M OF L,LE NEB</b>
Mar 05 2021 36"	31mmT5	(Lb 1),DIF,MB,ML,W/OIII,GRAN NEB SUR B*,PATCHY,EDGES FADE,(8:51pm),R=F		
Jan 24 2009 31"	17mmT4	MF,ML,BTR W/OIII,MORE NEB DET,FINE DETAIL IN NEB CLOSE TO *,R=F		
Jan 24 2004 31"	24mmTP	DIF,MF,PL,PATCH,UB,WITH OIII,PATCHY AREA OF GAS SUR *,R=F		
Oct 05 2002 12.5"	25mm	PB,VL,NEB SUR B*,PARTS OF NEB HAVE HISB		
Sep 09 1980 12.5"	24mm	NEED TO KEEP B* OUT OF FIELD TO DETECT		
<b>NGC 2024</b>		<b>H28-5</b>	<b>Brn Nebula E</b>	<b>IRR,B,VVL,BLACKSPINC</b>
Mar 04 2021 36"	31mmT5	(Lb 1),DIF,MB,EL,W/OIII,KEEP B* OUT OF FOV,L AREAS OF PATCHY NEB,SOME AREAS BKN WITH DARK LANES,EDGES NOT DEF,(9:11pm),R=G		

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<b>NGC 2024</b>		<b>H28-5</b>	<b>Brn Nebula E</b>	<b>IRR,B,VVL,BLACKSPINC</b>
Jan 24 2004 31"	24mmTP		DIF,MF,EL,SVRL FOV'S,WITH OIII,PATCHY AREAS,R=F	
Aug 21 1982 12.5"	24mm		PF,EL,DARK DUST LANES DET,BREAKS H2 RGN APART,~SAME SIZE AS HELIX	
Dec 03 1980 12.5"	24mm			
Oct 31 1980 12.5"	24mm			
Sep 18 1980 12.5"	24mm		CRACKS IN NEB DET,GREAT!!	
<b>NGC 2064</b>			<b>Brn Nebula R</b>	<b>EF,VS,*9,10NP4'</b>
Mar 04 2021 36"	31mmT5		(Lb 1),DIF,MS,PS,W/OIII,S PATCHY NEB SUR *,EDGES NOT DEF,CLOSE TO OTHERS,(9:16pm),R=F	
Feb 21 2006 31"	31mmT5		EDIF,EF,MS,PATCH,AV,CLOSE TO M78,TRIED BOTH FILTERS,HINT OF NEB DET WITH OIII,R=	
<b>NGC 2067</b>			<b>Brn Nebula R</b>	<b>F,PL,2068S</b>
Mar 04 2021 36"	31mmT5		(Lb 5),DIF,EF,MS,EL,NEXT TO M78,W/OIII,CAN JUST BARELY DEET NEB,AV HOLDS,(9:20pm),R=P	
Feb 21 2006 31"	31mmT5		EDIF,EF,VS,PATCH,CLOST TO M78,TRIED BOTH FILTERS,SUSP IN OIII,R=P	
<b>NGC 2068</b>	<b>M78</b>		<b>Brn Nebula R</b>	<b>B,L,WISP,GMBN,3*INV</b>
Mar 04 2021 36"	31mmT5		(Lb 1),M78,DIF,VB,VL,W/OIII,2 B**S IN NEB,OVAL,SMOOTH AND UNIFORM,EDGES FADE AWAY,OTHERS CLOSE,(9:16pm),R=GE	
Mar 08 2013 36"	17mmT4		MESSIER MARATHON 2013	
Mar 19 2004 12.5"	12mmT4		MESSIER MARATHON 2004	
Mar 02 1984 10"	20mm		SAME,ONE EDGE WELL DEFINED	
Mar 27 1982 12.5"	24mm		MF,PL,LOCATED IN BARREN * FIELD,2F**S IN CNTR	
Mar 27 1981 12.5"	24mm		MESSIER MARATHON 1981	
Oct 31 1980 12.5"	24mm			
Oct 29 1980 8"	24mm			
Sep 10 1980 12.5"	24mm			
Sep 09 1980 12.5"	24mm			
Aug 22 1980 12.5"	24mm			
<b>NGC 2071</b>		<b>H36-4</b>	<b>Brn Nebula R</b>	<b>D*10\$14 W/VF,L CHEV</b>
Mar 04 2021 36"	31mmT5		(Lb 4),DIF,VF,MS,W/OIII,S SMOOTH PATCHY NEB SUR * REACHES TO B* CLOSE BY,EDGES NOT WELL DEF,(9:25pm),R=F	
Feb 21 2006 31"	31mmT5		MF,MS,PATCH,NEB DET SUR B*,B* APPEARS AS CLOSE DBL WITH F*,R=F	
Oct 05 2002 12.5"	25mm		PBPL,DIF NEB,B* TO EDGE OF NEB,CLOSE TO M78	
<b>NGC 2110</b>		<b>H448-3</b>	<b>Galaxy SAB0-</b>	<b>EF,CS,LE,PSLBM,ER</b>
Dec 07 2005 31"	17mmT4		PB,MS,OVAL,BLNUC,MHISB CNTR,R=G	
<b>NGC 2112</b>		<b>H24-7</b>	<b>Open Cluster II 2 m n</b>	<b>CL,PL,LRI,PC,ST S</b>
Dec 30 1983 12.5"	24mm		MF,PS,BARREN * FIELD,B**S FORM SHAPE OF A 'Y',~60*S	
Sep 09 1980 12.5"	24mm			
<b>NGC 2119</b>			<b>Galaxy E</b>	<b>F,VS,R,BM</b>
Oct 04 2005 31"	17mmT4		MB,MS,R,FLNUC,RICH * FIELD,MHISB CNTR,R=G	
<b>NGC 2141</b>			<b>Open Cluster I 2 r</b>	<b>F,PS,DIF,</b>
Mar 03 2021 36"	17mmT4		(I 2 r),VR CL~SIM MAG FEW B**S,NICE FOV,F DEFINED CL ALM BG *S,(7:43pm),R=F	
Dec 30 1983 12.5"	24mm		NOT SURE OF FIND	

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<b>NGC 2163</b>		<b>Brtn Nebula bipolar</b>	<b>EF,E,DIF,*11ATT S</b>
Mar 05 2021 36"	17mmT4	(Lb 2),DIF,MF,PS,UHC BET THAN OIII,MORE NEB DET,B* WITH RECTANGLE LIKE NEB,EDGES SMWHT DET WITH AV,(9:01pm),R=F	
Nov 22 2006 12.5"	12mmT4	DIF,PB,PS,* WITH NEB SUR IT,SMWHT GREENISH,OIII DOESNOT HELP,R=G	
<b>NGC 2169</b>		<b>H24-8</b>	<b>Open Cluster III 3 m</b>
Mar 03 2021 36"	17mmT4	(III 3 p),VB,PL,B*S WITH F*S,~20 *S,B*S OFF TO NW NOT PART OF CL,LOOSELY SC,(7:53pm),R=G	<b>CL,S,LRI,PMC,**</b>
Dec 30 1983 12.5"	24mm	SAME	
Aug 21 1982 12.5"	24mm	MB,MS,20*S COUNTED,SPLIT THROUGH CNTR,ON SIDE RESEMBLES HOUR GLASS	
<b>NGC 2174</b>		<b>Brtn Nebula E</b>	<b>EF,BET3VF*</b>
Mar 05 2021 36"	31mmT5	(Lb 1),DIF,MB,EEL,BEST IN OIII,RICH * FIELDS,BTEST PART S OF B* IN NEB,SLEW 2-3 FOV'S,PATCHES,WISPS,SOME EDGES DET,(9:13pm),R=G	
Feb 21 2006 31"	31mmT5	W/OIII,AWSOME,PERFECT FOR OBJ,MUCH MORE NEB,PATCHES,DARK AREAS,SCAN FOV,R=E	
Feb 21 2006 31"	31mmT5	DIF,PB,EL,SOME NEB DET SUR CNTR AREA,PATCH OF NEB DET OUTER RGN	
<b>NGC 2175.1</b>		<b>Open Cluster II 2 p n</b>	
Feb 21 2006 31"	31mmT5	PB,VL,~15*S LOOSELY SC,VAR MAG,PAIR=2174,R=F	
<b>NGC 2180</b>		<b>H6-8</b>	<b>Open Cluster cluster?</b>
Feb 21 2006 31"	31mmT5	VB,VL,~10*S,NOT MUCH CL,VAR MAG,R=P	<b>CL,PRI,LC,ST L\$\$</b>
<b>NGC 2184</b>		<b>Open Cluster cluster?</b>	<b>CL,L,VLC</b>
Feb 21 2006 31"	31mmT5	EB,EEF,SVRL FOV'S,LOOSELY SC,VAR MAG,~50*S,R=F	
<b>NGC 2186</b>		<b>H25-7</b>	<b>Open Cluster II 2 m</b>
Dec 30 1983 12.5"	24mm	NO FIND	<b>CL,PL,PRI,PC,ST L\$\$</b>
Aug 21 1982 12.5"	24mm	MF,PS,~25*S,F*S WITH B*S,CL SLT ,EL	
<b>NGC 2194</b>		<b>H5-6</b>	<b>Open Cluster II 2 r</b>
Dec 30 1983 12.5"	24mm	SAME	<b>CL,L,RI,GVMCM</b>
Aug 21 1982 12.5"	24mm	MF,PS,40-50*S,F GLOW BET *S,SLT OVAL	
<b>NGC 2195</b>		<b>Non-Existent</b>	<b>F,S,2S*INV,*10N31"</b>
Feb 21 2006 31"	17mmT4	PB,MS,ASTERISM,5*S(4 VF*S) IN A CLOSE LINE,R=G	
<b>NGC 2202</b>		<b>Open Cluster cluster?</b>	<b>**CHIEF OF CL</b>
Feb 21 2006 31"	17mmT4	VB,EL,~15*S,SAME MAG,SOME CL,LOOSE,SC,R=F	
<b>PGC 16180</b>		<b>Galaxy S?</b>	
Sep 30 2005 31"	17mmT4	MF,PS,EL,FSNUC,PAIRS=1678/MAC,R=F	
<b>PGC 16256</b>		<b>Galaxy SB(s)cd</b>	
Sep 30 2005 31"	17mmT4	DIF,PF,PL,OVAL,PATCH,UB,NND,R=F	
<b>PGC 16290</b>		<b>Galaxy E</b>	
Sep 30 2005 31"	17mmT4	PB,MS,R,BSNUC,MHISB CNTR,PAIR=1690,R=F	

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<b>PGC 16447</b>		<b>Galaxy</b>
Oct 01 2005 31"	17mmT4	PF,PS,OVAL,VFSNUC,VF* ON EDGE,SOME HISB CNTR,PAIR=1709/1713/PGC,R=F
<b>PGC 16448</b>		<b>Galaxy SB(rs)0-:</b>
Oct 01 2005 31"	17mmT4	MF,PS,OVAL,BSNUC,F* OFF ONE EDGE,PAIR=1709/1713/PGC16447,R=F
<b>PGC 16481</b>		<b>Galaxy Sbc</b>
Oct 01 2005 31"	17mmT4	PF,PS,EL,UB,NND,PAIR=MAC,R=F
<b>PGC 17020</b>		<b>Galaxy S</b>
Nov 17 2012 36"	17mmT4	VF,VS,OVAL,UB,V CLOSE TO *,AGC 539,R=F
Oct 12 2012 36"	17mmT4	VF,PS,PATCH,UB,NEXT TO *, CAN DETECT WITH AV,AGC539,R=P
<b>PGC 17022</b>		<b>Galaxy</b>
Nov 17 2012 36"	17mmT4	PF,PS,OVAL,FSNUC,AGC 539,R=F
Oct 12 2012 36"	17mmT4	PF,VS,OVAL,FSNUC,AGC539,R=F
<b>PGC 17024</b>		<b>Galaxy S</b>
Nov 17 2012 36"	17mmT4	PF,PS,OVAL,*NUC,AGC 539,R=F
Oct 12 2012 36"	17mmT4	PF,VS,OVAL,FSNUC,AGC539,R=PF
<b>PGC 17025</b>		<b>Galaxy S?</b>
Nov 17 2012 36"	17mmT4	MB,MS,FSNUC,AGC 539,R=F
Oct 12 2012 36"	17mmT4	PF,VS,PATCH,AGC539,R=PF
<b>PGC 17028</b>		<b>Galaxy S</b>
Nov 17 2012 36"	17mmT4	PF,VS,UB,NND,AGC 539,R=F
Oct 12 2012 36"	17mmT4	PF,VS,OVAL,FSNUC,AGC539,R=PF
<b>PGC 17031</b>		<b>Galaxy S?</b>
Nov 17 2012 36"	17mmT4	VF,PS,EDGE ON,UB,NND,AV FIRST THEN HOLDS,R=P
Oct 12 2012 36"	17mmT4	VF,PS,EL-EDGE ON,UB,NND,R=PF
<b>PGC 17033</b>		<b>Galaxy S</b>
Nov 17 2012 36"	17mmT4	VF,VS,R,FLNUC,F* OFF EDGE,AGC 539,R=F
Oct 12 2012 36"	17mmT4	PF,VS,R,FLNUC,VF* ON EDGE,AGC539,R=PF
<b>PGC 17109</b>		<b>Galaxy</b>
Oct 25 2006 31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,R=F
<b>PGC 17173</b>		<b>Galaxy S</b>
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FT NEB FROM 1875,R=P
<b>PGC 17175</b>		<b>Galaxy S</b>
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FT NEB FROM 1875,R=P
<b>PGC 17176</b>		<b>Galaxy SA0-:</b>

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<b>PGC 17176</b>		<b>Galaxy SA0-:</b>
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FT NEB FROM 1875,BTR OF THE 3,R=P
<b>PGC 17532</b>		<b>Galaxy</b>
Oct 04 2005 31"	17mmT4	VF,VS,OVAL,VFSNUC,R=P
<b>PGC 17535</b>		<b>Galaxy Sb</b>
Oct 04 2005 31"	17mmT4	VF,PS,PATCH,UB,NND,R=P
<b>SH2 254</b>		<b>Brt Nebula E</b>
Mar 05 2021 36"	31mmT5	(Lb 3),DIF,VF,ML,W/OIII,SUR 5"S IN 'V' SHAPE,BARELY DET WITH UHC,OIII SMWHT
		BTR,OVAL,PATCH,NO EDGES,4 OTHERS CLOSE BY,(9:43pm),R=P
Feb 21 2006 31"	31mmT5	W/OIII,LOC GOOD,DID NOT FIND,R=P
<b>SH2 256</b>		<b>Brt Nebula</b>
Mar 05 2021 36"	31mmT5	(Lb 6),DIF,EF,VS,W/OIII,JUST OFF EDGE OF SH2-257,AV,SUSP,4 OTHERS CLOSE BY,(9:30pm),R=P
Feb 21 2006 31"	31mmT5	EDIF,W/OIII,EF,VS,PATCH,AV,VS PATCH DET WITH AV,SIM TO SH2-258,R=P
<b>SH2 257</b>		<b>Brt Nebula E</b>
Mar 05 2021 36"	31mmT5	(Lb 6),DIF,PF,VS,W/OIII,BLUEISH * WITH FT NEB SURNO EDGES DET,4 OTHERS CLOSE
		BY,(9:28pm),R=F,
Feb 21 2006 31"	31mmT5	W/OIII,PF,ML,F BG GLOW DET SUR S GRP OF F"S,R=F
<b>SH2 258</b>		<b>Brt Nebula</b>
Mar 05 2021 36"	31mmT5	(Lb 6),DIF,EF,ES,W/OIII,2 F"S AND OBJ MAKE A TRI,NEB SUSP,AV,*S SUR NEB ALM TOUCH,4
		OTHERS CLOSE BY,(9:39pm),R=P
Feb 21 2006 31"	31mmT5	VDIF,W/OIII,VF,VS,PATCH,AV,S PATCH DET CLOSE TO *,AV FIRST THEN HOLDS,R=P
<b>SH2 264</b>		<b>Brt Nebula E</b>
Mar 05 2021 36"	31mmT5	(Lb 1-5),DIF,VB,EEEL,W/UHC,3-4 FOV'S,VF IN AREAS (AV REQ),NEB DET SUR B"S,(8:36pm),R=P
<b>SH2 276</b>		<b>H35-5</b>
Nov 13 2020 36"	55mm	<b>Brt Nebula E</b> DIF,SCANNED SVRL DEGREES WITH AND WITHOUT OIII,NOTHING DET,(3:15am),R=P