

Herschel 2500 Observations

H1-1	NGC 1055	Cet	Galaxy SBb: sp	PF,CL,IE80,BM,*11N1'
Nov 24 2006	12.5"	12mmT4	PB,PL,OVAL,HISB,R=G	
Sep 07 1980	12.5"	24mm	FAINT AND LARGE,SAME FOV AS M77	
Sep 27 1981	12.5"	16mm	PB,PL,EDGE ON,FNUC,DIM ARMS,3* IN TRI TO N,DUST LANE E TO W,SBM	
H1-2	NGC 7184	Aqr	Galaxy SB(r)c	PB,PL,ME64,BET3*,ER
Aug 31 1984	12.5"	24mm	DIF,PF,MS,ELONG,F* IN W TIP,TAPPED-CIGAR SHAPE	
Jul 10 1981	12.5"	16mm	DIF,MB,ML,EDGE ON,FNUC,DIM HALO	
Oct 07 2010	31"	17mmT4	PB,VL,ELONG,SMALL BNUC,GRAD BM,MOD HISB MIDDLE,R=G	
Sep 06 2002	12.5"	9mmT6	VB,VL,ELONG,HISB MIDDLE,LARGE CENTRAL BULGE,F* BOTH ENDS	
Sep 09 1980	12.5"	24mm	BM,EDGE ON	
Sep 10 1980	12.5"	24mm		
H1-3	NGC 1982	Ori M43	Nebula E	VB,VL,RW/TAIL,MBM*8
Aug 22 1980	12.5"	24mm		
Dec 03 1980	12.5"	24mm		
Dec 04 2004	31"	31mmT5	DIF,EB,EL,WITH OIII,SHADES OF COLORS,INCREDIBLE DETAIL,BEST SEEN TO DATE,R=E	
Mar 02 1984	10"	20mm	SAME	
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Mar 27 1982	12.5"	24mm	MF,PL,OVERWHELMED BY M42,R,BLUE GREEN GAS,2**S IN NEB	
Oct 29 1980	8"	24mm		
Oct 31 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm		
Sep 18 1980	12.5"	24mm		
H1-4	NGC 7009	Aqr	Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
Aug 15 2009	31"	17mmT4	VB,VL,HISB,BRT BLUEISH,RING DET,FT NEB AR CENTRALBALL,NO C*,OIII,DOESNOT HELP THAT MUCH BUT RING IS EASIER TO DETECT,R=E	
Aug 31 1984	12.5"	12mm	VB,MS,R BRT BLUEISH NEB,SLIGHTLY ELONG,UB	
Jul 10 1981	12.5"	16mm	SATURN NEB,RING EASILY SEEN,BRT BLUE,MB,MS	
Jul 17 1980	12.5"	24mm		
Jun 18 1980	12.5"	9mm	DISK SHOWN WELL	
Oct 31 1980	12.5"	24mm		
Sep 01 2002	31"	9mmT6	BRT BLUE,RING SEEN,DETAIL IN NEB DETECTED,BEST VIEW TO DATE	
Sep 10 1980	12.5"	24mm		
Sep 27 2005	31"	17mmT4	VF,VL,ELONG,R,HISB,THICK INNER RING,BRT BLUE,CENTRAL *,RINGS DET,R=E	
Sep 27 2005	31"	17mmT4	WITH O/III, EB,VL,ELONG,R,MORE NEB DET BOTH SIDES OF RING,BETTER W/O,R=E	
H1-5	NGC 253	Sci	Galaxy SAB(s)c	VVB,VVL,VME54,GBM
Aug 22 1980	12.5"	24mm	VL	
Oct 29 1980	8"	24mm		
Oct 31 1980	12.5"	24mm		
Sep 06 2002	12.5"	9mmT6	VB,VL,SPRIAL STR,GAL 2 FOV IN SIZE,DUST LANES,BREAKS DETECTED,BRT REGIONS DET	
Sep 07 1980	12.5"	24mm		
Sep 09 1980	12.5"	24mm	EXCELLENT!!,BEST SIGHTING TO DATE	
Sep 23 1981	12.5"	24mm	DIF,MB,EL,EDGE ON,DARMS,DUST LANE,F * CENTER-W ARM S OF NUC,B * SE&W,KNTY STR SP	
H1-6	NGC 2420	Gem	Open Cluster 11.0 I 1 r	CL,CL,RI,C,ST11...18
Feb 21 1984	12.5"	16mm	SAME,APPROX 50-100**S,MB,ML	
Oct 30 1981	12.5"	16mm	MB,ML,WELL DISPERSED IN 16MM	

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H1-6	NGC 2420	Gem	Open Cluster 11.0 I 1 r	CL,CL,RI,C,ST11...18
Oct 30 1981	12.5" 16mm	MB,ML,WELL DISPERSED IN 16MM		
H1-7	NGC 1662	Ori	Open Cluster 9.0 II 3 m	CL OF L\$S SC ST
Sep 06 2002	12.5" 24mm	PB,PL,APROX 15 *S,LOOSLY SCATTERED,STANDS OUT WELL		
H1-8	NGC 2509	Pup	Open Cluster I 1 r	CL,B,PRI,LC,ST S
Oct 16 1982	12.5" 24mm	MF,ML,APPROX 50*S,LOOSE,FEW B*S IN CLUSTER		
H2-1	NGC 2775	Cnc	Galaxy SA(r)ab	CB,CL,R,VGVSMBM,R
Dec 03 1980	12.5" 24mm			
Feb 21 1984	12.5" 16mm	SAME		
Oct 24 1981	12.5" 12mm	DIF,MF,ML,BRT CENTRAL REGION,UB,GOOD DEFINITION WHERE ARMS WIND AROUND NUC		
H2-2	NGC 7507	Scl	Galaxy E0	PB,CS,R,PSVMBM,*10NP
Sep 09 1980	12.5" 16mm	BNUC		
Sep 27 1981	12.5" 16mm	MB,MS,BNUC,MBM,R,HISB IN CENTER NUC,NUC DET,F* OFF TO W		
H2-3	NGC 875	Cet	Galaxy S0+	VF,VS,(=867)
Oct 12 2007	31" 17mmT4	PB,MS,R,SMALL BNUC,HISB,SMBM,BM,PAIR=IC218,R=G		
Sep 27 1981	12.5" 16mm	VDIF,MF,ML,F*W SIDE,PATCH-OVAL,UB,NND		
H2-4	NGC 2261	Mon	Nebula E+R	B,VME330,N COM=*11
Oct 05 2002	12.5" 9mmT6	PB,ML,TRIANGLE SHAPE,F* AT HEAD,COMET LIKE,NEB UB,MOD HISB		
Oct 31 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm	COMET LIKE APP,NICE		
H2-5	NGC 4536	Vir	Galaxy SAB(rs)bc	B,VL,ME110,SBM,ER
May 03 1981	12.5" 24mm	DIF,PB,EL,ELONG,DARM,PAIR/4527		
H2-6	NGC 2304	Gem	Open Cluster II 1 m	CL,PL,RI,MC,ST VS
Feb 21 1984	12.5" 16mm	SAME		
Oct 30 1981	12.5" 16mm	MF,ML,WEDGE SHAPE,F*S SAME MAG,APPROX 50*S		
Oct 31 1980	12.5" 24mm	VERY COMPACT,LOOKS LIKE A GAL,MANY F*S GIVES APPEAR OF NEB		
H2-7	NGC 2244	Mon	Open Cluster 7.0 II 3 r n	CL,BEAUTIFUL,STSC
Aug 21 1982	12.5" 24mm	MB,VL,SCATTERED,7..9 MAG *S,APPROX 20*S,ALMOST FILLS 24MM FOV		
Feb 25 1984	12.5" 24mm	SAME		
Mar 18 2007	31" 31mmT5	EB,EEL,SEVERAL FOV'S,NICE,FEW B*S WITH VARIOUS MAGNITUDES,LOOSLY SCATTERED,R=G		
Sep 10 1980	12.5" 24mm			
H3-1	NGC 3166	Sex	Galaxy SAB(rs)0/a	B,PS,R,PSMBM,2ND OF3
Nov 24 2006	12.5" 12mmT4	VF,PL,OVAL,R,LARGE BNUC,GMBM,HISB MIDDLE,HISB,PAIR=3169/3165,R=E		
Oct 22 1982	12.5" 16mm	MB,PS,BNUC,R,GBM,HISB TOWARDS CENTER,PAIR/3169		
H3-2	NGC 157	Cet	Galaxy SAB(rs)bc	PB,L,E,BET2CB*
Sep 07 1980	12.5" 24mm	LARGE,FAINT,BETWEEN 2*S		
Sep 10 1980	12.5" 24mm			
Sep 21 1984	12.5" 16mm	DIF,PB,BL,12TH MAG * IN E SIDE,HISB,R,KNOTS SUSP,UNIFORM BRIGHTNESS		
H3-4	NGC 2245	Mon	Nebula R	PL,COM,MBN SFALM*
Oct 05 2002	12.5" 9mmT6	PB,PL,DIF NUBULA,CLOSE TO A B*,NEB OFF SET FROM *,MOD HISB		
H3-6	NGC 2269	Mon	Open Cluster 10.0 II 1 p	CL,VMC,NOT RI,ST VS
Oct 05 2002	12.5" 9mmT6	PB,ML,ELONG,* DIFFERENT MAG,APPROX 10-11 MAG		
H3-8	NGC 2251	Mon	Open Cluster 9.1 III 2 m	CL,VL,E,RI,LC
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	LOOSE AND SCATTERED,RECTANGLE SHAPE,APPROX 40*S,ALMOST FILLS 24MM FOV		
H4-1	NGC 3169	Sex	Galaxy SA(s)a pec	B,PL,VLE,PGMBM,3RD-3

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H4-1	NGC 3169	Sex	Galaxy SA(s)a pec	B,PL,VLE,PGMBM,3RD-3
Nov 24 2006	12.5"	12mmT4	VB,PL,OVAL,LARGE BNUC,HISB,GMBM,PAIRS=3166/3165,R=E	
Oct 22 1982	12.5"	16mm	MB,PS,DNUC,R,SBM,MOD HISB,B*NW,PAIR/3166	
H4-2	NGC 596	Cet	Galaxy E+ pec:	PB,R,BM,R,*6F12'
Sep 07 1980	12.5"	24mm	PAIR/584	
Sep 10 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	MF,PS,BNUC,B TOWARDS MIDDLE,SMALL NUC	
H4-3	NGC 2939	Leo	Galaxy Sbc	VF,S,VLE,BM,TRI STNF
Feb 25 2004	31"	17mmT4	MB,VL,LARGE BNUC,MOD HISB MIDDLE,GMBM,F* IN EDGE OF GAL,PAIR/2940/IC548,R=G	
H4-5	NGC 4123	Vir	Galaxy SB(r)c	CF,VL,E90,BMN
Apr 25 1981	12.5"	24mm	DIF,VF,PL,FNUC,F HALO	
H4-7	NGC 1817	Tau	Open Cluster 9.0 IV 2 r	CL,L,RI,LC,ST11...14
Aug 21 1982	12.5"	24mm	MB,SL,3B**S IN W PART,WELL PLACED IN 24MM,APPROX 50**S,SCATTERED	
Dec 25 1984	12.5"	48mm	SAME	
H5-1	NGC 3655	Leo	Galaxy SA(s)c:	PB,PS,IR,BM,R
Jan 30 1981	12.5"	24mm	DIF,PB,VS,DNUC,FAINT HALO	
Mar 03 1984	12.5"	12mm	DIF,MB,PS,MOD HISB,OVAL,UB	
H5-2	NGC 1032	Cet	Galaxy S0/a sp	PB,S,VLE,BM,3*TRAP
Sep 06 2002	12.5"	9mmT6	PB,PL,HISB,SBM,OVAL,LARGE NUC AREA	
H5-4	NGC 4437	Vir	Galaxy SA(s)cd: sp	F,EE75,*10NF
May 01 1981	12.5"	24mm	PF,EL,EDGE ON,FARM	
May 30 2014	36"	17mmT4	MB,EL,EDGE ON,NND,PA~90,EDGE TO EDGE IN EYEPIECE FOV,SHISB,GRANULAR,DUST,BROKEN PARTS,SOMEWHAT CENTRAL BULGE,R=G	
H5-5	NGC 4293	Com	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
Feb 12 1983	12.5"	16mm	DIF,PF,ML,F*E TIP,NND,KNTS SUSP,UB,SEVERAL **S OFF ONE SIDE	
Jun 10 1980	6"	24mm		
Mar 08 2010	31"	17mmT4	MB,PL,ELOIG,EDGE ON,LARGE FNUC,SOME GRANULAR AREAS DET,R=G	
H5-6	NGC 2194	Ori	Open Cluster 13.0 II 2 r	CL,L,RI,GVMCM
Aug 21 1982	12.5"	24mm	MF,PS,40-50**S,FAINT GLOW BETWEEN **S,SLIGHTLY OVAL	
Dec 30 1983	12.5"	24mm	SAME	
H5-7	NGC 2236	Mon	Open Cluster 12.0 II 2 m	CL,PRI,PC,*10,12..15
Oct 05 2002	12.5"	9mmT6	PB,PL,APPROX 50**S VARIOUS MAG,**S SPIRAL INTO CENTER	
H5-8	NGC 2264	Mon	Open Cluster 5.0 III 3 m n	15MON,CL,**,(NEB)
Feb 25 1984	12.5"	24mm	SAME	
Oct 16 1982	12.5"	24mm	MF,ML,11 FAINT**S AROUND A BRT * WITH AN OVAL PATCH OF NEB	
Sep 10 1980	12.5"	24mm		
H6-1	NGC 5363	Vir	Galaxy I0?	B,PL,R,PSBM,*8NF
Feb 12 1983	12.5"	16mm	VB,ML,BNUC,R,BM,PAIR/5364	
H6-6	NGC 2355	Gem	Open Cluster 13.0 II 2 m	CL,PS,PRI,MC,*15..16
Feb 21 1984	12.5"	16mm	SAME	
Oct 16 1982	12.5"	24mm	MF,ML,B* N 1 OBJECT DIA,FEW B**S WITH 50 FAINTER **S,SCATTERED	
Oct 30 1981	12.5"	24mm	B* SURR BY SEVERAL F**S,DIF HALO OF FAINTER **S IN BACKGROUND	
H6-8	NGC 2180	Ori	Open Cluster 12.0 cluster?	CL,PRI,LC,ST L\$S
Feb 21 2006	31"	31mmT5	VB,VL,APPROX 10**S,NOT MUCH CLUSTERING,VARIOUS MAGNITUDES,R=P	
H7-2	NGC 1589	Tau	Galaxy Sab sp	F,PL,LE132,*80"NP
Sep 06 2002	12.5"	9mmT6	ELONG,F* OF NUC,BM,LARGE NUC,MOD HISB,PAIR/1587/1588	
H7-3	NGC 2508	CMi	Galaxy E?	F,VS,VLE,2*P
Feb 15 2004	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,GMBM,HISB MIDDLE,R=G	

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H7-3	NGC 2508	CMi	Galaxy E?	F,VS,VLE,2*P
Feb 15 2004	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,GMBM,HISB MIDDLE,R=G	
H7-4	NGC 3507	Leo	Galaxy SB(s)b	CF,PL,R,SBMS*,*9ATT
Jan 08 2003	12.5"	9mmT6	VB,VL,BNUC,B*ON EDGE OF GAL,HISB,SMALL CENTRAL REGION	
H7-5	NGC 3346	Leo	Galaxy SB(rs)cd	CF,VL,R,VGV LBM,ER
Dec 03 1980	12.5"	24mm	FAINT AND DIF	
Feb 25 1984	12.5"	12mm	VDIF,VF,MS,PATCHY,OVAL,NND	
Jan 30 1981	12.5"	24mm	PB,PL,ELONG,BNUC,DIM HALO	
H7-6	NGC 5053	Com	Globular	CL,VF,PL,IR,VGBM,*15
Apr 11 2015	36"	17mmT4	MB,PL,DOZ OR SO B*S LOOSLY SCATTERED,LITTLE CLUSTERING IN NUC AREA DET,OC LIKE,-TYPE XII,R=G	
Mar 22 2004	12.5"	12mmT4	VDIF,EF,VL,OVAL,FAINT PATCHY AREAS DETECTED,MORE WITH AV,R=P	
Mar 27 1981	12.5"	24mm		
H7-7	NGC 6520	Sgr	Open Cluster 9.0 I 2 r n	CL,PS,RI,LC,ST9...13
Aug 13 1982	12.5"	24mm	MB,ML,LOOSE,R,40*S,20F*S CLUSTERED TOWARDS MIDDLE,8...12MAG	
Jun 18 1980	12.5"	24mm		
Sep 20 1984	12.5"	12mm	MF,ML,2*S IN CENTER APPROX SAME MAG,SCATTERED,BRT *S WITH F* IN CENTER	
H7-8	NGC 1663	Ori	Open Cluster IV 2 p c	CL,LRI,ST L\$S
Sep 06 2002	12.5"	9mmT6	PB,ML,APPROX 20*S,305 B*S WITH FAINTER OTHERS,TAKES POWER WELL	
H8-1	NGC 4698	Vir	Galaxy SA(s)ab	CB,PL,IR,BM,R
Mar 27 1982	12.5"	12mm	MF,MS,DNUC,DIF HALO,SMBM,R,BETWEEN 2F*S	
H8-2	NGC 1587	Tau	Galaxy E pec	F,PS,R,R,P OF D NEB
Sep 06 2002	12.5"	9mmT6	PB,PL,OVAL,LARGE NUC,MOD HISB,BM,COMP=1588	
H8-3	NGC 2894	Leo	Galaxy Sa	VF,E,ER,2OR3* INV
Jan 20 2004	31"	17mmT4	VB,ML,R,SMALL BNUC,B*S BOTH SIDES,MOD HISB,R=G	
H8-4	NGC 4567	Vir	Galaxy SA(rs)bc	VF,L,NP OF D NEB
Jun 04 1981	12.5"	24mm	DIF,PB,VL,ELONG,DIM HALO,PAIR/4564/4568	
Jun 10 1980	6"	24mm	NOT SURE IF IT IS 4567 OR 4568	
May 09 2010	31"	17mmT4	MB,PL,OVAL,VSNUC,SHISB,STELLAR LIKE NUC,TOUCHING=4568,EXCELLENT PAIR,R=E	
H8-5	NGC 3628	Leo	Galaxy Sb pec sp	PB,VL,VME102
Dec 03 1980	12.5"	24mm		
Jan 30 1981	12.5"	24mm	DIF,PF,EL,EDGE ON,FAINT HALO,PAIR/M66/M65/3626	
Jun 10 1980	6"	24mm	BETWEEN 2 F*S,SAME FOV AS M65/M66	
Mar 03 1984	12.5"	12mm	DIF,MF,PL,EDGE ON,VF*S S OF EAST ARM,DARK LANES DET,UB,NND	
Mar 06 2010	31"	17mmT4	EB,EL,EDGE ON UB,SHISB,SEVERAL F*S IN TIP,DUST LANE,2 HALVES,ONE HALF THICKER THAN OTHER,R=EE	
Mar 27 1981	12.5"	24mm		
H8-7	NGC 6940	Vul	Open Cluster 11.0 III 2 r	CL,VB,VL,VRI,CC,STPL
Jul 30 1981	12.5"	12mm	PB,PL,LARGE IN B* FIELD	
Jun 20 1980	12.5"	24mm	GREAT,VL,FILLS FOV,PB	
Sep 19 1984	12.5"	16mm	VB,VL,*S SCATTERED AND APPROX SAME MAG,FILLS FOV	
H8-8	NGC 1647	Tau	Open Cluster 9.0 II 2 r	CL,VL,ST L,SC
Aug 21 1982	12.5"	24mm	MB,EL,APPROX 20*S,FILLS 24MM,LOOSE,SCATTERED	
H9-1	NGC 4179	Vir	Galaxy S0 sp	PB,PS,PME135,BMN
Apr 25 1981	12.5"	24mm	DIF,PF,PS,ELONG,BNUC,F HALO	
H9-2	NGC 1588	Tau	Galaxy E pec?	F,VS,R,R,F OF DNEB
Sep 06 2002	12.5"	9mmT6	MF,ML,OVAL,SBM,COMP=1587	
H9-4	NGC 4568	Vir	Galaxy SA(rs)bc	VF,L,SF OF D NEB

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H9-4	NGC 4568	Vir	Galaxy SA(rs)bc	VF,L,SF OF D NEB
Jun 04 1981	12.5" 24mm	DIF,PB,VL,ELONG,DIM HALO,PAIR/4564/4567		
May 09 2010	31" 17mmT4	MB,PL,OVAL,NND,SHISB,PATCHY,BROKEN ARMS/DUST,TOUCHING=4567,EXCELLENT PAIR,R=E		
H9-5	NGC 6526	Sgr	Nebula E	F,L,CE
Sep 04 2002	12.5" 24mm	EF,PL,DIF NEBULA,LARGE AREA OF NEB,BARELY DETECTED		
H9-6	NGC 5466	Boo	Globular	CL,L,VRI,VMC,ST11...
Apr 11 2015	36" 17mmT4	MB,ML,BRT 'S LOOSLY SCATTERED,FT SOFT BACKGROUND AROUND NUC AREA,~TYPE XI,R=G		
Jul 14 1980	12.5" 24mm			
May 06 1981	12.5" 16mm	VB,EL		
H9-7	NGC 6830	Vul	Open Cluster 10.0 II 2 p	CL,L,PRI,PC,*11...12
Jul 30 1981	12.5" 16mm	APPROX 20*S,8..9 MAG,MB,ML		
Jul 30 1981	12.5" 24mm	EASILY DET		
Sep 19 1984	12.5" 16mm	SAME,MB,ML,*S SCATTERED,DARK AREA DET IN NORTH REGION		
H9-8	NGC 2234	Gem	Open Cluster 11.0 cluster?	CL,EL,PRI,LC,ST L\$\$
Dec 06 2002	12.5" 24mm	VB,VL,NOT WELL PLACED,APPROX 50 *S VARIOUS MAGNITUDES		
H10-1	NGC 4643	Vir	Galaxy SB(rs)0/a	CB,PS,LE,MBM
Jun 04 1981	12.5" 24mm	DIF,BNUC,DIM HALO		
Mar 27 1982	12.5" 12mm	MB,MS,ELONG,BNUC,VMBM,HISB TOWARDS MIDDLE,B* OFF TO SIDE		
H10-2	NGC 7800	Peg	Galaxy Im?	F,PS,E39
Oct 01 2005	31" 17mmT4	VB,VL,ELONG,BNUC,ELONG HISB NUC,VF*S OFF ONE EDGE,R=G		
H10-4	NGC 3239	Leo	Galaxy IB(s)m pec	VF,*9INV NR M
Mar 26 2006	31" 17mmT4	PB,VL,PATCH,SHISB,BRT H2 REG DET,B* IN GAL,MOD HISB PATCHES,MANY COMP,R=G		
H10-6	NGC 6144	Sco	Globular	CL,CL,MC,GBM,RRR
Aug 13 1982	12.5" 24mm	DIF,MF,PS,CLOSE TO ANTARIES,F*W,F*N EDGE,OVAL,NO CENTRAL GATHERING DET		
May 28 2008	31" 17mmT4	MB,PL,RESOLVED,SEVERAL B*S WITH FAINTER BACKGROUND,CORE NOT SO COMPACT,R=G		
H10-7	NGC 2482	Pup	Open Cluster 10.0 IV 1 m	CL,L,CRI,VLC
Dec 03 1980	12.5" 24mm	BLENDS IN WITH FIELD *S,DOESNOT STAND OUT WELL		
H11-2	NGC 4237	Com	Galaxy SAB(rs)bc	PB,PL,LE,VGBM,R
Mar 22 2004	12.5" 12mmT4	MF,PL,OVAL,LARGE FNUC,SHISB,LOC IN BARRON FOV,R=G		
H11-4	NGC 6369	Oph	Planetary Neb 4+2	RINGNEB,PB,S,R
Jun 04 1981	12.5" 24mm	GREEN,MF,MS,NO CENTRAL * DET		
Jun 18 1980	12.5" 9mm	GOOD,LOC BESIDE F*,DISK DET		
May 18 2009	31" 17mmT4	MB,ML,R,RESEMBLES M57,C* APPROX 15TH MAG,RING WITH FT NEB INSIDE,SOMEWHAT BRIGHTER AROUND C*,OIII DOESNOT HELP MUCH,NEB SLIGHTLY BRIGHTER,R=E		
H11-6	NGC 6284	Oph	Globular	GCL,B,L,R,CM,ST16...
Jul 21 1984	12.5" 16mm	PF,PS,FNUC,NOT RESOLVED,SBM,PATCHY		
Jun 04 1981	12.5" 24mm	MB,PL,BNUC		
Jun 18 1980	12.5" 24mm	BETTER THAN 6287,BNUC		
Jun 18 1980	12.5" 24mm			
H11-7	NGC 2539	Pup	Open Cluster 9.0 III 2 m	CL,VL,RI,LC,*11...13
Dec 03 1980	12.5" 24mm	DOUBLE * IN CLUSTER (YELLOW & BLUE),BEAUTIFUL!!!		
H11-8	NGC 2395	Gem	Open Cluster 10.0 IV 2 m	CL,PRI,C
Feb 21 1984	12.5" 24mm	SAME		
Oct 30 1981	12.5" 24mm	MB,PL,SOME B*S WITH FAINTER *S		
H12-2	NGC 4651	Com	Galaxy SA(rs)c	CB,L,E90,GBM,R
Mar 20 2009	31" 17mmT4	PF,ML,OVAL.SBNUC,MHISB,P AREAS IN ARMS DET,SMBM,SPIRAL ARMS,GRANDULAR ARMS,R=E		

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H12-2	NGC 4651	Com	Galaxy SA(rs)c	CB,L,E90,GBM,R
Mar 20 2009	31"	17mmT4	PF,ML,OVAL.SBNUC,MHISB,P AREAS IN ARMS DET,SMBM,SPIRAL ARMS,GRANDULAR ARMS,R=E	
H12-4	NGC 6553	Sgr	Globular	GCL,F,L,LE,VGLBM,RR
Aug 13 1982	12.5"	16mm	MF,PL,OVAL,PATCHY,F*N EDGE,SBM	
Sep 21 1984	12.5"	16mm	SAME,DARK PATCH DET ON EDGE	
H12-6	NGC 6293	Oph	Globular	GCL,VB,L,R,PSBM,ST16
Jul 21 1984	12.5"	12mm	MB,PL,BNUC,R,SBM,NO *S RESOLVED	
Jun 04 1981	12.5"	24mm	MB,ML,BNUC	
Jun 18 1980	12.5"	24mm		
H12-7	NGC 2360	CMa	Open Cluster 10.4 I 3 r	CL,VL,RI,PC,ST9...12
Oct 16 1982	12.5"	24mm	MB,ML,APPROX 50*S SAME MAG,RESEMBLES WILD DUCK CLUSTER	
Oct 31 1980	12.5"	24mm	LOOKS LIKE SMALL BEE HIVE	
H12-8	NGC 6664	Sct	Open Cluster 9.0 III 2 m	CL,L,PRI,VLC
Aug 13 1982	12.5"	24mm	MB,VL,APPROX 20*S,SCATTERED,B* IN FIELD,SOMEWHAT V SHAPED	
Aug 13 2007	31"	31mmT5	VB,EEL,APPROX 40*S,SOME CLUSTERING,LOOSLY SCATTERED,FILLS FOV,R=P	
H13-1	NGC 3521	Leo	Galaxy SAB(rs)bc	CB,CL,ME140,VSMBMN
Feb 25 1984	12.5"	12mm	MB,PL,ELONG,BNUC,VERY MBM,SMALL BRT NUC	
Jan 30 1981	12.5"	24mm	VB,PL,ELONG,BNUC,DIM HALO	
H13-2	NGC 3705	Leo	Galaxy SAB(r)ab	PF,PL,R,VSMBM,R
Jan 30 1981	12.5"	24mm	DIF,PF,PL,ELONG,FNUC,DIM HALO	
Mar 03 1984	12.5"	12mm	MB,ML,EDGE ON,BNUC,SMALL BRT NUC,SBM,NO *S	
H13-4	NGC 6894	Cyg	Planetary Neb 4+2	RINGNEB,F,S,VVLE
Aug 15 2009	31"	17mmT4	MB,ML,OVAL,NO C*,VF* IN EDGE OF RING,MINI M57,OIII,MORE NEB,EDGES FRAILED,R=E	
Sep 04 2002	12.5"	9mmT6	MF,PS,UB,OVAL,CENTRAL REGION DARK PATCH,ONE SIDE SLIGHTLY BRIGHTER	
H13-6	NGC 6451	Sco	Open Cluster 12.0 I 2 r n	CL,PL,PRI,BIFID,ST12
Aug 13 1982	12.5"	24mm	MF,MS,HAS A NORTHERN BULGE OF *S,30-40*S WITH FAINT BACKGROUND GLOW OF MANY *	
Jun 18 1980	12.5"	24mm		
H13-7	NGC 2204	CMa	Open Cluster 13.0 II 2 r	CL,L,PRI,LC
Oct 16 1982	12.5"	24mm	VF,ML,LOOSE-SCATTERED,APPROX 50*S,BRT * OUTSIDE CLUSTER	
H14-4	NGC 6772	Aql	Planetary Neb 3b+2	VF,L,R,VVLBM,R
Jul 10 1981	12.5"	12mm	VDIF,R,LOCATED IN BARREN * FIELD,EF	
H14-5	NGC 6992	Cyg	Nebula E	EF,EL,EE,EIF,BIFID
Sep 04 2002	12.5"	32mm	VB,EEL,SNR,HISB,ARC GOES 2 FOV'S	
H14-6	NGC 6802	Vul	Open Cluster 14.0 I 1 m	CL,L,VC,E0,ST14...18
Jul 30 1981	12.5"	16mm	ELONG,*S 10..12 MAG,MF,ML	
Sep 19 1984	12.5"	16mm	MF,ML,ELONG-REC SHAPE,MANY *S APPROX SAME MAG,MANY *S RESOLVED	
H14-7	NGC 2318	CMa	Open Cluster 8.0 asterism?	CL,L,SC ST8...9
Nov 21 2006	12.5"	12mmT4	PB,VS,B* WITH A FEW VF*S CLOSE BY,NO CLUSTERING DET,R=P	
H15-1	NGC 4666	Vir	Galaxy SABc:	B,VL,ME45,PSBM
Mar 27 1982	12.5"	12mm	DIF,MF,PL,EDGE ON,FNUC,STELL NUC,SBM,TAPPED ENDS	
H15-2	NGC 4578	Vir	Galaxy SA(r)0^:	PF,PS,R,SBMN,*NP
Jun 04 1981	12.5"	24mm	VF,ES,DNUC	
H15-3	NGC 3646	Leo	Galaxy Ring	CF,CL,LE,GBM,SP OF 2
Jan 30 1981	12.5"	24mm	DIF,PF,VL,FAINT ARMS	
Mar 03 1984	12.5"	16mm	VDIF,VF,ML,F* TO W SIDE,OVAL-PATCH,UB,NND	
H15-4	NGC 16	Peg	Galaxy SAB0- sp	PB,S,R,BM

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H15-4	NGC 16	Peg	Galaxy SAB0- sp	PB,S,R,BM
Aug 30 2003	31"	25mm	VB,PL,ELONG,LARGE BRT NUC,HISB,FAINT ARMS TAPPERED,R=G	
Sep 10 1980	12.5"	24mm		
Sep 12 2002	12.5"	9mmT6	VF,PL,ELONG,VERY BM,LARGE NUC,HISB,FAINT ARMS,ELONG-OVAL,PAIR/22	
Sep 21 1984	12.5"	12mm	DIF,EF,ES,STAR LIKE,S ELONG,B* JUST TO N SEVERAL GAL DIAMETER,	
Sep 21 1984	12.5"	16mm	DIF,VF,VS,ELONG,BM,NO *S,PAIR WITH NGC 1	
H15-5	NGC 6960	Cyg	Nebula E	PB,CL,EIF,KAPPACYGIN
Sep 04 2002	12.5"	32mm	PB,EL,SNR,WHIPS ON BOTH SIDES OF B* EASILY DETECTED,PARTS OF SNR HAVE HISB	
H15-8	NGC 6604	Ser	Open Cluster 7.5 I 3 m n	CL,LRI,LC
Sep 04 2002	12.5"	24mm	VP,PL,*S DIFFERENT MAG,FEW B*S WITH FAINT BACKGROUND GLOW	
H16-1	NGC 4753	Vir	Galaxy I0	CB,L,VLE,VGLBM
Feb 12 1983	12.5"	16mm	MB,ML,ELONG,DNUC,SMB,STELL NUC	
H16-4	NGC 6905	Del	Planetary Neb 3+3	PLN,B,PS,R,4S*NR
Aug 15 2009	31"	17mmT4	PB,ML,OVAL,C* 14TH,PATCHY AREAS,GREENISH,ONE SIDE BRTER THAN OTHER,OIII,HELPS, MORE PATCHY AREAS,ENDS BROKEN,R=E	
Jul 08 1983	12.5"	12mm	MF,PS,R,TRI OF *S AROUND OBJECT,OUTER EDGES FAINTER THAN MIDDLE	
Jul 30 1981	12.5"	12mm	BLUEISH GREEN COLOR,R,EDGES WELL DEF,CENTRAL * VERY FAINT,UB	
H16-5	NGC 68	And	Galaxy SA0-	EF,L,3OR4*+NEB
Nov 20 2003	31"	17mmT4	MB,PS,R,LARGE BNUC,SMB,SHISB MIDDLE,NGC 70 CLUSTER OF 12,R=G	
Oct 05 2002	12.5"	9mmT6	DIF,PF,PS,R,BM,MOD HISB,GALAXY CLUSTER	
H16-7	NGC 2354	CMa	Open Cluster 9.1 III 2 r	CL,CRI,LC
Oct 16 1982	12.5"	24mm	MF,VL,LOOSE,SCATTERED,APPROX 30*S	
Oct 31 1980	12.5"	24mm	LOOSE,NOT MUCH CLUSTERING	
H16-8	NGC 6834	Cyg	Open Cluster 11.0 II 2 m	CL,P,LC,*11...12
Jul 30 1981	12.5"	24mm	MB,ML,EASILY DET,B* IN CENTER,SMALL CLUSTERING TO N SIDE	
Sep 19 1984	12.5"	16mm	SAME,MB,MS,LARGE DARK NEB NORTH SEVERAL DEGREES,STANDS OUT WELL	
H17-1	NGC 3379	Leo M105	Galaxy E1	VB,CL,R,PSBM,R
Dec 03 1980	12.5"	24mm		
Feb 25 1984	12.5"	16mm	MB,ML,BNUC,R,PAIR/3384/3389	
Jan 30 1981	12.5"	24mm	EB,VL,BNUC,PAIR/3384/3389	
Mar 02 1984	10"	20mm	SAME	
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
H17-2	NGC 4235	Vir	Galaxy SA(s)a sp	PB,PL,PME,BM,P OF 2
Apr 25 1981	12.5"	24mm	DIF,PF,PS,FNUC,F HALO,PAIR/4233/4224	
H17-4	NGC 1253	Eri	Galaxy SAB(rs)cd	*12W/NEB F,90"L
Nov 17 2012	36"	17mmT4	VB,VL,ELONG,NND,VF* IN GAL,B* IN EDGE,PATCHY,GRANULAR,IRR,SHISB,GAS,DUST,PAIR=1253A,R=GE	
H17-5	NGC 598	Tri M33	Galaxy SA(s)cd	EB,EL,R,VGBMN
Aug 19 1980	12.5"	32mm		6
Aug 22 1980	12.5"	24mm		
Jul 15 1980	12.5"	24mm	EF,EL,LOOKS LIKE DIF NEB,NO SPR STR DET	
Jul 24 1980	12.5"	32mm	BEST I'VE EVER SEEN,GREAT!!!	
Mar 02 1984	10"	20mm	SAME	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Oct 31 1980	12.5"	24mm		

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H17-5	NGC 598	Tri M33	Galaxy SA(s)cd	EB,EL,R,VGBMN	6
Oct 31 1980	12.5"	24mm			
Sep 03 1980	12.5"	24mm			
Sep 07 1980	12.5"	24mm			
Sep 10 1980	12.5"	32mm	GREAT!!,SEVERAL ARMS,STR SEEN		
Sep 14 2012	36"	17mmT4	EB,EEL,BNUC,SEVERAL FOV'S,KNOTS,SPR STR,H2 REGIONS,DUST,ARMS,TONS OF DETAIL,R=E		
Sep 18 1980	12.5"	24mm			
Sep 20 1981	12.5"	24mm			
Sep 23 1981	12.5"	16mm	MB,EL,BARM,SPIRAL STR DETECTED,H2 REGIONS DET,2-3 MAJOR ARMS SEEN		
H17-6	NGC 2158	Gem	Open Cluster 15.0 II 3 r	CL,PS,MC,VRI,IRRTRI	
Mar 27 1981	12.5"	24mm			
Oct 30 1981	12.5"	12mm	RESOLVED,DOZEN OR SO B*S IN FRONT OF FAINT HALO OF *S		
Sep 10 1980	12.5"	24mm			
H17-7	NGC 2362	CMa	Open Cluster 8.0 I 3 r	CL,PL,RI,30CMA	
Oct 16 1982	12.5"	24mm	APPROX 30*S,VB,VL,B* IN CENTER,TRI SHAPE,*S APPROX SAME MAG		
Oct 31 1980	12.5"	24mm	6TH MAG CENTRAL * SURROUNDED BY 9TH *S,EXCELLENT		
H18-1	NGC 3384	Leo	Galaxy SB(s)0-	VB,L,R,PSMBM,2ND OF3	
Dec 03 1980	12.5"	24mm			
Feb 25 1984	12.5"	16mm	MB,ML,ELONG,BNUC,BM,PAIR/3379/3389		
Jan 30 1981	12.5"	24mm	VB,PL,BNUC,FAINT HALO,PAIR/3379/3389		
Mar 27 1981	12.5"	24mm			
H18-2	NGC 4470	Vir	Galaxy Sa?	F,PL,IR,BM	
Mar 16 2010	31"	17mmT4	PB,ML,UB,NND,PATCHY,PAIR=4466,R=G		
H18-4	NGC 7662	And	Planetary Neb 4+3	PLN ORRING,VB,PS,R	
Aug 31 1984	12.5"	12mm	MB,VS,VERY R,UNIFORM BLUEISH COLOR,* CLOSE BY		
Jul 15 1980	12.5"	24mm			
Sep 02 2008	31"	17mmT4	VB,ML,OVAL,R,BRT GREENISH,BRT INNER RING NOT SYM,BRT GREENISH EDGES IN SPOTS,C* 14TH MAG,R=E		
Sep 23 1981	12.5"	16mm	BRT BLUEISH GREEN,UB,R WITH FUZZY EDGES,NO CENTRAL *,MB,PS,15* SW		
H18-5	NGC 205	And M110	Galaxy E5 pec	VB,VL,ME165,VGVMBM	
Aug 19 1980	12.5"	24mm			
Aug 22 1980	12.5"	24mm			
Aug 31 1984	12.5"	24mm	MB,PL,FNUC,COMP TO M31,ELONG,F* IN EASTERN PART,SOFT DIF NUCLEUS		
Jul 11 1980	12.5"	24mm			
Jul 17 1980	12.5"	24mm			
Jul 24 1980	12.5"	24mm	BEST OBSERVED TO DATE		
Mar 02 1984	10"	20mm	SAME		
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5"	24mm			
Sep 20 1981	12.5"	24mm	F* IN S ARM IN EQ PLANE		
Sep 24 1981	12.5"	16mm	SMBM,SLIGHTLY OVAL,FAINT ARMS,DIF,MB,PL,ELONGATED		
H18-6	NGC 2309	Mon	Open Cluster 13.0 I 2 m	CL,PL,PRI,MC,ST13	
Oct 05 2002	12.5"	9mmT6	PB,PL,SCATERED,NICE IN 9MM,*S APPROX SAME MAG		
H18-7	NGC 6823	Vul	Open Cluster 8.8 I 3 m n	CL,CRI,E,ST11...12	
Jul 30 1981	12.5"	16mm	R,B*S RESOLVED,4B*S IN CLUSTER,MB,ML,*S 8..9 MAG		
Jun 27 2003	12.5"	24mm	VB,VL,APPROX 30*,3B*S WITH MANY FAINTER *S,LOOSE,SCATTERED,PAIR=6820,R=F		

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H18-7	NGC 6823	Vul	Open Cluster 8.8 I 3 m n	CL,CRI,E,ST11...12
Jun 27 2003	12.5" 24mm	VB,VL,APPROX 30*,3B*S WITH MANY FAINTER *S,LOOSE,SCATTERED,PAIR=6820,R=F		
Sep 19 1984	12.5" 16mm	SAME,MB,PL,APPROX 20*S		
H18-8	NGC 6837	Aql	Open Cluster IV 1 p	CL,S,P
Jun 25 2003	12.5" 9mmT6	PB,ML,APPROX 15*S,FEW B*S,LOOSE,SCATTERED,DOES NOT STAND OUT WELL,*S 8-12 MAG		
H19-1	NGC 4147	Com	Globular	GCL,VB,PL,R,GBM,RRR
Feb 12 1983	12.5" 12mm	MB,PL,RESOLVED TO CORE,OUTER *S CLOSELY GROUPED,BM		
Jun 10 1980	6" 24mm	VF,LOOKS LIKE FAINT GAL		
Mar 08 2010	31" 17mmT4	PB,ML,TYPE APPROX VI,RESOLVED TO CORE,SBNUC,MOD HISB MIDDLE,F HALO OF *S RESOLVED,R=G		
H19-3	NGC 2402	CMi	Galaxy Double System	EF,S,R,LBM,*INV
Feb 15 2004	31" 17mmT4	MF,MS,R,UB,NND,VF* IN EDGE,SEVERAL *S IN LINE OFF ONE SIDE,PAIR=MAC,R=G		
H19-4	NGC 2170	Mon	Nebula R	*9 INV,PL,NEB,E170
Oct 05 2002	12.5" 9mmT6	PB,ML,BRT NEB AROUND BRT *,NEB MOD HISB		
H19-5	NGC 891	And	Galaxy SA(s)b? sp	B,VL,VME22
Aug 22 1980	12.5" 24mm			
Aug 31 1984	12.5" 16mm	MF,ML,EDGE ON,S ARM BETTER THAN N,DUST LANE DET,CENTRAL BULGE DET		
Jul 11 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
Jul 24 1980	12.5" 32mm	BEAUTIFUL!!!,DUST LANE VISIBLE		
Sep 10 1980	12.5" 24mm			
Sep 20 1981	12.5" 24mm			
Sep 23 1981	12.5" 24mm	F* 13MAG NW SIDE, FAINTER * TO S TIP OF ARM,BULGE DET,ML,MB, EDGE ON		
H19-6	NGC 5897	Lib	Globular	GCL,PF,L,VIR,VGBM,
May 02 1981	12.5" 16mm	PB,EL		
H19-7	NGC 6755	Aql	Open Cluster 11.0 II 2 r	CL,VL,VRI,PC,,*12.14
Aug 31 1984	12.5" 24mm	SAME,MB,PL		
Jul 10 1981	12.5" 24mm	SOMEWHAT GROUPED TOGETHER,APPEARS TO BE A DOUBLE CLUSTER		
Jul 15 1980	12.5" 24mm			
H19-8	NGC 6840	Aql	Open Cluster 10.0 cluster?	CL,P,LC
Jun 25 2003	12.5" 9mmT6	MB,ML,NICE IN 9MM,*S APPROX SAME MAGNITUDE,PAIR=6843,R=F		
H20-1	NGC 3666	Leo	Galaxy SA(rs)c:	F,E90,*6F34S,5'N
Mar 03 1984	12.5" 12mm	DIF,MF,MS,VERY EDGE ON,F*N FROM NUC,SBM		
H20-3	NGC 3433	Leo	Galaxy SA(s)c	VF,VL,R,VGBM
Mar 03 1984	12.5" 16mm	NO FIND,SETTING CIRCLES GOOD,TRANSPARANCY GOOD		
H20-4	NGC 2185	Mon	Nebula R	*11\$4S*IN VF,L,NEB
Aug 21 1982	12.5" 24mm	MB,PS,B* JUST TO S,R,GBM,BRT CENTRAL REGION		
Nov 24 2006	12.5" 17mmT4	DIF,MF,VS,SMALL PTCH OF NEB AROUND *,PAIR=2183OIII DOES NOT HELP,R=F		
H20-5	NGC 247	Cet	Galaxy SAB(s)d	F,EL,VME172
Sep 07 1980	12.5" 32mm	EL,SEEN BY SWEEPING AREA,LARGE		
Sep 10 1980	12.5" 24mm			
Sep 24 1981	12.5" 16mm	DIF,MF,VL,B* S EQ PLANE,* OFF E SIDE,NND,PATCHY,ELONG,SIM TO 253		
H20-6	NGC 288	ScI	Globular	GCL,B,L,LE,*12...16
Sep 09 1980	12.5" 16mm	RESOLVED TO CORE,EXCELLENT!!		
Sep 23 1981	12.5" 16mm	DIF,MB,EL,R,SEVERAL HUNDRED *S SAME MAG,V LITTLE CLUSTERING TOWARDS MID		
H20-7	NGC 2215	Mon	Open Cluster 11.0 II 2 m	CL,CL,PRI,PC,ST11.15
Feb 25 1984	12.5" 24mm	SAME		

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H20-7	NGC 2215	Mon	Open Cluster 11.0 II 2 m	CL,CL,PRI,PC,ST11.15
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	MF,PL,LOOSE AND SCATTERED,APPROX 20"S,WELL DEFINED		
H20-8	NGC 6885	Vul	Open Cluster 5.9 III 2 m	CL,VB,VL,RI,LC,*6.11
Jul 30 1981	12.5" 12mm	VB,VL,B* IN CENTER OF CLUSTER,APPROX 15-20"S		
Sep 19 1984	12.5" 16mm	SAME,MB,PL,B* CLOSE TO CENTER		
H21-1	NGC 3810	Leo	Galaxy SA(rs)c	B,L,VLE
Jan 30 1981	12.5" 24mm	DIF,PB,PL,FNUC,FAINT HALO		
Jun 10 1980	6" 24mm	PB,STAR HOP FROM BETA		
Mar 03 1984	12.5" 12mm	DIF,MB,ML,OVAL,SBM,NO *S		
H21-4	NGC 1964	Lep	Galaxy SAB(s)b	F,VS,R,VSVMBM,3*INV
Dec 21 1981	12.5" 16mm	ELONG,MBM,F* IN GAL TOWARDS BRT *S		
Dec 21 1981	12.5" 32mm	PF,VS,HISB,STELL NUC		
Oct 24 1981	12.5" 16mm	DIF,MF,PS,F*W SIDE,GBM,NUC DET,SMALL AND ROUND,APPEARS LIKE E GAL		
H21-5	NGC 2359	CMa	Nebula E	VF,VVL,VIF
Dec 19 2006	31" 31mmT5	DIF,MF,EL,OVAL,LARGE PATCHY AREAS OF NEB SCATTERED AMONGST *S,PAIR=IC468,R=G		
Dec 19 2006	31" 31mmT5	W/OIII,DIF,MB,VL,OVAL,HISB,BRT PATCHES,FILAMENTS,FILTER HELPS GREATLY,AWSOME,R=E		
Dec 28 2008	31" 31mmT5	PB,EL,W/OIII,FINE DETAIL THROUGHOUT,BRT AREAS,BRT EDGES,BRT RIDGES,BEST EVER,R=E		
Nov 21 2006	12.5" 12mmT4	DIF,VB,VL,W/OIII,PATCHY,WHISPS OF ARMS,SPIRAL SHAPE,BRT AREAS DET,R=E		
H21-6	NGC 2266	Gem	Open Cluster 11.0 II 2 m	CL,PS,EC,RI,ST11..15
Feb 21 1984	12.5" 16mm	SAME,APPROX 50-100"S,FORMS SOMEWHAT A TRI,MB,ML		
Oct 30 1981	12.5" 12mm	PB,ML,30*S,1BRT * E SIDE		
H21-7	NGC 1758	Tau	Open Cluster III 2 p	CL,PC,ST L\$\$
Dec 25 1984	12.5" 48mm	VB,VL,*S DIFFERENT MAG,SCATTERED,FITS NICE IN 48MM		
Mar 22 2004	12.5" 25mm	VB,EL,MORE *S THAN 1746/1750.NOT WELL PLACED,R=F		
H21-8	NGC 6800	Vul	Open Cluster 10.0 IV 1 p	CL,VL,PRI,VLC,ST10..
Sep 04 2002	12.5" 24mm	PB,PL,*S APPROX SAME MAG,APROX 30*S		
H22-1	NGC 4371	Vir	Galaxy SB(r)0+	B,PS,R,GBM
Apr 25 1981	12.5" 24mm	PB,PS,BNUC,F HALO		
H22-3	NGC 3506	Leo	Galaxy Sc:	VF,CS,R,VGVLBM
Mar 03 1984	12.5" 12mm	VDIF,VF,MS,UB,PATCHY-OVAL,NND,NO *S		
H22-4	NGC 2467	Pup	Open Cluster I 3 m n	PB,VL,R,ER,*8M
Nov 21 2006	12.5" 12mmT4	PF,VL,INSIDE SH2-311,SIMILAR MAG,LOOSLY SCATTERED,APROX 50*S,R=F		
Nov 24 2006	12.5" 12mmT4	VB,VL,LOOSE,NOT WELL DEFINED,NEB ASSOCIATED WITH CLUSTER,PAIRS=SH2-311/LBN,R=P		
H22-5	NGC 5170	Vir	Galaxy SA(s)c: sp	CF,L,ME129,PGBM
May 31 2014	36" 17mmT4	PB,PL,EDGE ON,LBNUC,PA~120,CENTRAL BULGE,TAPPERED ENDS,HISB MIDDLE,R=G		
H22-6	NGC 2548	Hya M48	Open Cluster 8.0 I 3 r	CL,VL,PRI,PMC,*9..13
Dec 03 1980	12.5" 24mm			
Mar 02 1984	10" 20mm	SAME		
Mar 08 2013	36" 17mmT4	MESSIER MARATHON 2013		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 27 1982	12.5" 24mm	MB,EL,FILLS 24MM,BETTER IN FINDER		
Oct 24 1981	12.5" 24mm	VB,EL,BETTER IN FINDER,FILLS UP 24MM		
H22-7	NGC 2254	Mon	Open Cluster 12.0 I 1 m	CL,S,PC,IF,*11...13

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H22-7	NGC 2254	Mon	Open Cluster 12.0 I 1 m	CL,S,PC,IF,*11...13
Oct 05 2002	12.5" 9mmT6		MB,PS,SCATTERED,*S DIFFERENT MAG,NICE IN 9MM	
H22-8	NGC 6882	Vul	Open Cluster	CL,P,LC
Aug 13 1982	12.5" 24mm		EB,EL,OVERFILLS EYEPIECE FOV,SEVERAL B*S	
Jul 06 1983	12.5" 24mm		MB,VS,JUST N OF 6885,B* IN OBJECT,APPROX 15 *S,OBLONG IN SHAPE	
H23-3	NGC 3524	Leo	Galaxy S0/a	F,S,LE,PSBM,2*NPLINE
Jan 08 2003	12.5" 9mmT6		MB,ML,ELONG,FNUC,SBM,HISB TOWARDS MIDDLE,OVAL,PAIR/PGC33588	
H23-4	NGC 936	Cet	Galaxy SB(rs)0+	VB,VL,R,MBMN,P OF 2
Sep 07 1980	12.5" 24mm			
Sep 18 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm		MF,PL,BNUC,DARM,SMBM,OUTER ARMS SUSP,BRT BAR TOWARDS NUC,R,FACE ON,PAIR/941	
H23-5	NGC 3027	UMa	Galaxy SB(rs)d:	VF,VL,LE,R
Apr 14 2004	31" 17mmT4		DIF,MF,VL,ELONG,PATCH,NND,BAR IN GAL SUSP,CENTRAL AREA,R=F	
H23-6	NGC 6645	Sgr	Open Cluster 12.0 IV 1 m	CL,PL,VRI,PC,ST11.15
Aug 13 1982	12.5" 24mm		MB,VL,LOOSE,APPROX 50*S,SCATTERED,SHOWS WELL	
H23-7	NGC 2489	Pup	Open Cluster 11.0 I 2 m	CL,PL,CRI,PC,*11..13
Dec 03 1980	12.5" 24mm			
Oct 16 1982	12.5" 24mm		MF,ML,APPROX 40*S SAME MAG,OVAL,WELL DISERSED IN 24MM	
H23-8	NGC 6950	Del	Open Cluster cluster?	CL,P,VLC
Jul 31 2002	12.5" 24mm		PB,VL,LARGE LOOSE SCATTERING,APPROX 20*S	
H24-1	NGC 4596	Vir	Galaxy SB(r)0+	B,PS,R,GMBM,R,3*F
Jun 04 1981	12.5" 24mm		MB,PL,BNUC,BRT HALO,PAIR/4608	
H24-3	NGC 3088	Leo	Galaxy Double System	VF,S
Mar 08 2010	31" 17mmT4		MB,ML,OVAL,LARGE BNUC,SOMEWHAT HISB MIDDLE,INTERACT=3088B,R=F	
H24-4	NGC 2023	Ori	Nebula R+E	B*IN M OF L,LE NEB
Jan 24 2004	31" 24mmTP		DIF,MF,PL,PATCH,UB,WITH OIII,PATCHY AREA OF GAS AROUND *,R=F	
Jan 24 2009	31" 17mmT4		MF,ML,BETTER W/OIII,MORE NEB DET,FINE DETAIL IN NEB CLOSE TO *,R=F	
Oct 05 2002	12.5" 25mm		PB,VL,NEB AROUND BRT *,PARTS OF NEB HAVE HISB	
Sep 09 1980	12.5" 24mm		NEED TO KEEP B* OUT OF FIELD TO DETECT	
H24-5	NGC 4565	Com	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
Feb 05 2005	31" 17mmT4		EB,EEL,EDGE ON,LARGE BNUC,HISB,FILLS FOV,2 HALVES,GMBM,TAPERED ENDS,R=E	
Feb 05 2005	31" 31mmT5		EB,EL,EDGE ON,BNUC,BETTER THAN 17MM,JUST FITS IN FOV,DUST LANE,BEST TO DATE,R=E	
Feb 27 1982	12.5" 16mm		MB,PL,VERY EDGE ON,BNUC,DIM HALO,F*N OF NUC,DUST LANES,CENTRAL BULGE,!!!	
Mar 27 1981	12.5" 24mm			
H24-6	NGC 7044	Cyg	Open Cluster 15.0 I 1 r	CL,VF,PL,VRI,VC
Aug 11 1982	12.5" 24mm		DIF,MF,VL,ELONG,10-20 B*S SURROUNDED BY HUNDREDS F*S,FAINT GLOW W/AVERTED VIS	
H24-7	NGC 2112	Ori	Open Cluster 10.0 II 2 m n	CL,PL,LRI,PC,ST S
Dec 30 1983	12.5" 24mm		MF,PS,BARREN * FIELD,BRT *S FORM SHAPE OF A 'Y',APPROX 60*S	
Sep 09 1980	12.5" 24mm			
H24-8	NGC 2169	Ori	Open Cluster 6.9 III 3 m	CL,S,LRI,PMC,**
Aug 21 1982	12.5" 24mm		MB,MS,20*S COUNTED,SPLIT THROUGH CENTER,ON SIDE RESEMBLES HOUR GLASS	
Dec 30 1983	12.5" 24mm		SAME	
H25-1	NGC 4754	Vir	Galaxy SB(r)0-:	B,PL,R,PSBM,P OF 2
Feb 12 1983	12.5" 16mm		MF,MS,SBM,R,PAIR/4762	
H25-3	NGC 3177	Leo	Galaxy SA(rs)b	CF,S,R,PSBM
Feb 25 1984	12.5" 12mm		DIF,MF,PS,R,BM,NO *S	

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H25-3	NGC 3177	Leo	Galaxy SA(rs)b	CF,S,R,PSBM
Feb 25 1984	12.5" 12mm	DIF,MF,PS,R,BM,NO *S		
Jan 30 1981	12.5" 24mm	DIF,EF,ES		
H25-4	NGC 2327	CMa	Nebula	PB**INV INS,VF,NEB
Nov 21 2006	12.5" 12mmT4	DIF,PB,PS,B* WITH FAINT NEB AROUND. BRT INNER REGION,R=G		
H25-5	NGC 246	Psc	Planetary Neb 3b	VF,L,4*IN DIF NEB
Oct 29 1980	8" 24mm			
Oct 31 1980	12.5" 24mm			
Sep 02 2008	31" 17mmT4	VF,ML,OVAL,OIII HELPS GRTLY,TRANSLUCENT BUBLE,C*13MAG,BRT RINGS IN EDGE,R=G		
Sep 18 1980	12.5" 24mm	3*S IN NEB,ONE MOST LIKELY CENTRAL *		
Sep 27 1981	12.5" 16mm	DIF,BLUE GREEN,MB,BL,SOURROUNDS 4 *S, 1 * S,PATCHY OVALNESS		
H25-6	NGC 1245	Per	Open Cluster 12.0 II 2 r	CL,PL,RI,C,IR,*12.15
Oct 03 1981	12.5" 24mm	MF,ML,50-80*S		
Sep 03 1980	12.5" 24mm	GREAT!!,LOOKS LIKE MINATURE BEEHIVE		
H25-7	NGC 2186	Ori	Open Cluster 12.0 II 2 m	CL,PL,PRI,PC,ST L\$\$
Aug 21 1982	12.5" 24mm	MF,PS,APPROX 25*S,FAINT *S WITH BRT *S,CLUSTER SLIGHTLY ELONG		
Dec 30 1983	12.5" 24mm	NO FIND		
H25-8	NGC 2232	Mon	Open Cluster 5.0 III 2 p	B* 10MON +CL
Oct 16 1982	12.5" 24mm	VB,VL,BROKEN IN 2 HALVES,12*S LOOSE AND SCATTERED,USE FINDER		
H26-4	NGC 1535	Eri	Planetary Neb 4+2c	PLN,VB,S,R,PS,VSBM,R
Dec 28 2008	31" 17mmT4	VB,ML,R,C*12M,OIII BRT INNER RING,R HALO,HISB MIDDLE, OIII HELPS SOMEWHAT,R=E		
Oct 30 1981	12.5" 12mm	BLUE,MB,PL,BRT MIDDLE,12MAG CENTRAL *		
Oct 31 1980	12.5" 24mm	SIM IN COLOR TO SATURN NEBULA,FIND 1537 FIRST,GREAT!!!		
H26-5	NGC 3003	LMi	Galaxy Sbc?	CB,L,VME90
Dec 03 1980	12.5" 24mm			
Dec 20 2003	31" 17mmT4	PB,VL,EDGE ON,UB,NND,R=E		
Feb 25 1982	12.5" 16mm	VDIF,MF,PL,EDGE ON,CIGAR SHAPE,NND,UB,BETTER IN 24MM.PAIR/3021		
H26-6	NGC 1605	Per	Open Cluster 12.5 III 1 m	CL,VF,PS,C,ST ES
Aug 10 2002	12.5" 24mm	ML,VF,NOT WELL DEFINED,ROUND IN SHAPE		
H26-7	NGC 2225	Mon	Open Cluster cluster?	CL,P,LCM,*12...15
Nov 24 2006	12.5" 17mmT4	MF,VS,APPROX 5*S?,CAN'T TELL TWO APART,PAIR=2226,APPEAR AS ONE OBJECT,R=P		
H26-8	NGC 2129	Gem	Open Cluster 10.0 I 3 m	CL,PL,40OR50ST8...15
Oct 30 1981	12.5" 16mm	MB,ML,2B*S IN CLUSTER SURR BY 10-15*S		
H27-1	NGC 3412	Leo	Galaxy SB(s)0^	B,S,LE135,SMBMN
Feb 25 1984	12.5" 12mm	MB,PS,ELONG,BNUC		
Jan 30 1981	12.5" 24mm	PB,PS,BNUC		
H27-2	NGC 5665	Boo	Galaxy SAB(rs)c pec?	PB,PL,R,GBM,R
May 06 1981	12.5" 24mm	DIF,MB,ML,BRT HALO		
H27-3	NGC 3605	Leo	Galaxy E4-5	F,S,R,SP OF 3
Jan 30 1981	12.5" 24mm	DIF,EF,ES,FAINT HALO SUSP,PAIR/3607/3608		
Mar 03 1984	12.5" 12mm	MF,PS,FNUC,PATCHY,SBM,CLOSE PAIR/3607		
Mar 06 2010	31" 17mmT4	MF,MS,ELONG,LFNUC,GRAD GETS MUCH BM,HISB MIDDLE,PAIRS=3606/3607/PGC34407,R=G		
H27-4	NGC 3242	Hya	Planetary Neb 4+3b	PLN,VB,LE147,45"D
Dec 03 1980	12.5" 24mm	GHOST OF JUPITER,PAIL GREENISH COLOR,GREAT!!		
Dec 28 2008	31" 17mmT4	VB,PL,R,HISB,C*13,OUT SHELL,BRTER INNER RING W/TAP SIDES,BRT BLUEISH,OIII HL,R=E		
Feb 12 1983	12.5" 16mm	MB,PS,R,BLUE FUZZY EDGES,UB,NO CENTRAL *		
H27-6	NGC 2301	Mon	Open Cluster 8.0 I 3 r	CL,RI,L,IF,ST L\$\$

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H27-6	NGC 2301	Mon	Open Cluster 8.0 I 3 r	CL,RI,L,IF,ST L\$\$
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	MB,VL,APPROX 50**S,LOOSE SCATTERED,V SHAPE,SOME PARTS CLUSTER BY THEMSELVES		
H27-8	NGC 2367	CMa	Open Cluster 9.4 II 3 m	CL,S,P,LC
Nov 21 2006	12.5" 12mmT4	PB,ML,FEW B**S WITH FAINTER **S,APPROX 20**S,V SHAPED,WELL PLACED,R=F		
H28-1	NGC 4435	Vir	Galaxy SB(s)0^A	VB,CL,R,NP OF 2
Jun 10 1980	6" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,PAIR=4438,R=E		
Mar 27 1981	12.5" 24mm			
May 01 1981	12.5" 24mm	PB,PS,BNUC		
H28-1	NGC 4438	Vir	Galaxy SA(s)0/a pec:	B,CL,VLE,R,SF OF 2
Jun 10 1980	6" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,HISB MIDDLE,GRANULAR HALO,SPR STR SUSP,PAIR=4435,R=E		
Mar 27 1981	12.5" 24mm			
May 01 1981	12.5" 24mm	DIF,PB,PL,BNUC,DARM		
H28-2	NGC 3226	Leo	Galaxy E2: pec	PB,CL,R,DW/3227
Apr 19 2014	36" 17mmT4	MB,ML,R,SBNUC,F GLOW OF ARMS,PAIR=3227,R=G		
Dec 03 1980	12.5" 24mm	COMP CLOSE,PAIR/3227		
Feb 25 1984	12.5" 12mm	MB,PS,BNUC,BM,R,CLOSE PAIR/3227		
Jan 30 1981	12.5" 24mm	DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3227		
H28-5	NGC 2024	Ori	Nebula E	IRR,B,VVL,BLACKSPINC
Aug 21 1982	12.5" 24mm	PF,EL,DARK DUST LANES DET,BREAKS H2 REGIONS APART,APPROX SAME SIZE AS HELIX		
Dec 03 1980	12.5" 24mm			
Jan 24 2004	31" 24mmTP	DIF,MF,EL,SEVERAL FOV'S,WITH OIII,PATCHY AREAS,R=F		
Oct 31 1980	12.5" 24mm			
Sep 18 1980	12.5" 24mm	CRACKS IN NEB DET,GREAT!!		
H28-6	NGC 2259	Mon	Open Cluster 14.0 II 1 p n	CL,CRI,EC,IF,ST ES
Oct 05 2002	12.5" 9mmT6	MF,ML,EXCELLENT,WELL PLACED IN 9MM,**S APPROX SAME MAG		
H28-7	NGC 2423	Pup	Open Cluster 9.0 II 2 m	CL,VL,RI,PC,ST VS
Dec 03 1980	12.5" 24mm			
Oct 16 1982	12.5" 24mm	VF,VL,APPROX 50**S,OUTSIDE FIELD OF M47,APPROX SAME MAG **S,LOOSE AND SCATTERED		
H28-8	NGC 2026	Tau	Open Cluster 9.0 cluster?	CL,LRI,LC,ST PL
Jan 24 2004	31" 17mmT4	MF,EL,APPROX 30**S VARYING IN MAG,LOOSLY SCATTERED,R=P		
H28.1-4	NGC 4038	Crv	Galaxy SB(s)m pec	PB,CL,R,VGBM
Mar 16 2009	31" 17mmT4	VB,VL,ELONG,PATCHY AREAS IN GAL,SHISB,NND,DARK AREA SPLITS TWO,INTER=4039,R=G		
Mar 22 2004	12.5" 12mmT4	MF,PL,OVAL,PATCH,UB,NND,CLOSE COMP=4039,R=G		
May 03 1981	12.5" 24mm	DIF,PB,VL,ELONG,BOTH NUC OF BOTH GAL SEEN,RING TAIL GAL,ARMS DET,PAIR/4039		
H28.2-4	NGC 4039	Crv	Galaxy SA(s)m pec	PF,PL
Mar 16 2009	31" 17mmT4	VB,VL,ELONG,SHISB,UB,NND,DARK AREA SPLITS THE TWO,COMP=4038,R=G		
Mar 22 2004	12.5" 12mmT4	MF,PL,OVAL,PATCH,UB,NND,CLOSE COMP=4038,R=G		
May 03 1981	12.5" 24mm	PAIR/4038,RING TAIL GAL		
H29-1	NGC 3593	Leo	Galaxy SA(s)0/a:	B,CL,E90,PSMBM
Jan 30 1981	12.5" 24mm	PB,PL,EDGE ON,BNUC,DIM HALO,PAIR/3596		
Mar 03 1984	12.5" 12mm	MB,PL,EDGE ON,BNUC,TAPPERED ENDS,NO **S,BM		
Mar 27 1981	12.5" 24mm			
H29-2	NGC 3227	Leo	Galaxy SAB(s)a pec	PB,CL,R,DW/3226

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H29-2	NGC 3227	Leo	Galaxy SAB(s)a pec	PB,CL,R,DW/3226
Apr 19 2014	36"	17mmT4	MB,ML,OVAL,R,LFNUC,SHISB,F ARMS DET,SOME SPR STR SUSP,PAIR=3226,R=G	
Dec 03 1980	12.5"	24mm	COMP CLOSE,PAIR/3226	
Feb 25 1984	12.5"	12mm	MB,MS,ELONG,BNUC,SBM,CLOSE PAIR/3226,NO *S	
Jan 30 1981	12.5"	24mm	DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3226	
H29-3	NGC 3768	Leo	Galaxy S0	VF,ES,STELLAR
Mar 16 2010	31"	17mmT4	MB,ML,OAL,LARGE BNUC,HISB MIDDLE,SOME GRANULAR HALO,R=G	
H29-6	NGC 7245	Lac	Open Cluster 12.8 II 2 m	CL,C,ST ES
Sep 20 1984	12.5"	24mm	MB,PS,V RICH * FIELD,B*NE SIDE,APPROX 40-50*S WITH FAINT BACKGROUND GLOW	
H29.1-5	NGC 4395	CVn	Galaxy SA(s)m:	EF,VL,NP OF DNEB
Jan 28 1982	12.5"	24mm	NO FIND	
Mar 22 2004	12.5"	12mmT4	VDIF,EF,EL,PATCH,UB,NND,BROKEN PATCHES DET,R=P	
H30-1	NGC 4365	Vir	Galaxy E3	CB,PL,VLE,GL,SMBM
Apr 25 1981	12.5"	24mm	PB,PL,BNUC,FARM,PAIR/4342	
Jun 10 1980	6"	24mm	SMALL FUZZY PATCH	
Mar 08 2010	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,GRANULAR AREA AROUND NUC,HISB MIDDLE,R=G	
H30-3	NGC 3802	Leo	Galaxy S	VF,PS,2VB*P,3RD OF3
Mar 06 2010	31"	17mmT4	MB,ML,ELONG FNUC,GRAD BM,SOMEWHAT HIBS MIDDLE,PAIRS=3601/3790/PGC36189,R=G	
Mar 17 2010	31"	17mmT4	MB,ML,ELONG,UB,NND,CLOSE COMP=3801,PAIRS=3790/PGC36189,R=G	
May 14 2010	31"	17mmT4	MB,ML,EDGE ON,UB,NND,SLIGHT CENTRAL BULGE,PAIRS=3801/3803,R=G	
H30-4	NGC 4861	CVn	Galaxy SB(s)m:	VF,PL,VME30,BET2ST
Jan 28 1982	12.5"	16mm	VDIF,VF,PS,EDGE ON,*S BOTH N AND S ENDS,NND	
H30-5	NGC 1977	Ori	Open Cluster	42ORIONIS\$NEB
Sep 06 2002	12.5"	32mm	VB,PL,APPROX 5 *S ASSOCIATED WITH M43	
H30-6	NGC 7789	Cas	Open Cluster 10.0 II 2 r	CL,VL,VRI,VMC,*11.18
Jul 31 1981	12.5"	24mm	APPROX 50-100*S,A LOT OF F*S ASSOC WITH CLUSTER	
Jun 20 1980	12.5"	24mm		
H30-7	NGC 6568	Sgr	Open Cluster IV 1 m	CL,VL,LC
Aug 13 1982	12.5"	24mm	MB,VL,LOOSE,APPROX 40*S	
Sep 21 1984	12.5"	24mm	MB,PL,LOOSE AND SCATTERED,B* NEAR BY,*S APPROX SAME MAG	
H30-8	NGC 2527	Pup	Open Cluster II2m	CL,VL,PRI,LC,*10..15
Dec 03 1980	12.5"	24mm		
Oct 16 1982	12.5"	24mm	MB,ML,SCATTERED,APPROX 20*S SAME MAG	
H31-1	NGC 4526	Vir	Galaxy SAB(s)0^:	VB,VL,ME120,PSMBM
Jun 10 1980	6"	24mm		
May 03 1981	12.5"	24mm	VB,PL,ELONG,BNUC,BARM	
May 09 2010	31"	17mmT4	EB,EL,ELONG,SBNUC,HARD TO KEEP B* OUT OF FOV,GRANULAR ARMS,HISB MIDDLE,GMBM,SM TIGHT BRT NUC,R=E	
H31-2	NGC 4592	Vir	Galaxy SA(s)dm:	F,L,E90,VGBM
Jun 04 1981	12.5"	24mm	DIF,PF,ML,ELONG,EDGE ON,FAINT HALO	
H31-4	NGC 7302	Aqr	Galaxy SA(s)0-:	F,PS,R,VSBSMN
Jul 10 1981	12.5"	24mm	DIF,EF,ES,PAIR/7300	
H31-5	NGC 1980	Ori	Nebula III 3 m n	VF,VVL,44ORIONIS INV
Oct 16 1982	12.5"	24mm	MB,ML,B* IN CENTER,2F*S CLOSE TO B*,LARGE OVAL AREA SURR B*,CLOSE TO M42	
Sep 09 1980	12.5"	24mm	NEB AROUND A NICE DOUBLE STAR	
H31-6	NGC 663	Cas	Open Cluster 9.0 II 3 r	CL,B,L,ERI,ST PL
Jul 31 1981	12.5"	16mm	PL,CLUSTER BROKEN IN HALF,DARK PATCH THROUGH CLUSTER	
H31-7	NGC 6583	Sgr	Open Cluster I 2 m	CL,PRI,PC,CE,ST13...

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H31-7	NGC 6583	Sgr	Open Cluster I 2 m	CL,PRI,PC,CE,ST13...
Aug 13 1982	12.5" 16mm	DIF,MF,MS,20-30*S,RESOLVED,R		
H31-8	NGC 2286	Mon	Open Cluster 9.0 III 2 m	CL,L,C,AB100*9...15
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	MF,EL,VERY POOR,NO CLUSTERING DET		
H32-1	NGC 4570	Vir	Galaxy S0 sp	CB,PS,ME0,SBMRN
Jun 04 1981	12.5" 24mm	PB,VS,ELONG,BNUC		
Jun 10 1980	6" 24mm	JUST BARELY VISIBLE		
May 09 2010	31" 17mmT4	VB,VL,ELONG,EDGE ON,SBNUC,HISB,SUDDENLY MBM,TAPPERED ENDS,SLIGHT CENTRAL BULGE,R=G		
H32-3	NGC 5490	Boo	Galaxy E	CF,CS,R,SBMF**
Mar 26 2006	31" 17mmT4	PB,ML,OVAL,LARGE BNUC,HISB MIDDLE,GMBM,PAIRS=IC982/IC983/OTHERS,R=G		
H32-4	NGC 1700	Eri	Galaxy E4	CB,S,MBM*
Oct 30 1981	12.5" 12mm	MB,ML,R,BNUC		
Oct 31 1980	12.5" 24mm	SMALL COMPACT NUC		
Sep 09 1980	12.5" 24mm			
H32-5	NGC 1788	Ori	Nebula R	B,CL,R,BM,***15,*1'F
Oct 16 1982	12.5" 16mm	BRT H2 REGION OR * BETWEEN NEBULA AND *		
Oct 16 1982	12.5" 24mm	PB,ML,ELONG,BM,B* TO W IN NEBULA,VMBM		
H32-6	NGC 7086	Cyg	Open Cluster 10.2 II 2 m	CL,CL,VRI,PC,*11..16
Aug 11 1982	12.5" 24mm	MB,PL,APPROX 80*S,SOMEWHAT DIVIDED IN CENTER,9...11 MAG *S		
H32-7	NGC 752	And	Open Cluster 8.0 II 2 r	CL,VVL,RI,*L\$SC
Aug 13 1982	12.5" 24mm	VB,EL,MANY *S,OVERFILLS 24MM FIELD,BEST IN 8X50 FINDER,R,SCATTERED		
Aug 31 1984	12.5" 24mm	SAME		
Sep 10 1980	12.5" 24mm			
H32-8	NGC 2335	Mon	Open Cluster 10.0 III 2 m n	CL,L,LC
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	MF,MS,APPROX 30*S,LOOSE AND SCATTERED,CLOSE TO 2343		
H33-1	NGC 4124	Vir	Galaxy SA(r)0+	PB,PL,ME118,BM,R
Apr 25 1981	12.5" 24mm	DIF,PF,PL,ELONG,EDGE ON,FNUC,F HALO		
H33-2	NGC 3640	Leo	Galaxy E3	B,PL,R,PSBM
Jan 30 1981	12.5" 24mm	PB,PS,DNUC		
Mar 03 1984	12.5" 12mm	MB,PL,BNUC,R,BM,CLOSE COMP SW		
H33-4	NGC 1999	Ori	Nebula E	*10,11INV IN NEB
Feb 20 2006	31" 31mmT5	W/OIII,DIF,MB,VL,NEB DETAIL DET AROUND *,R=G		
Oct 16 1982	12.5" 24mm	MB,PS,BNUC,VMBM,R,12MM-EYE APPEARANCE,TAPPERED ENDS,SOME DARK AREA IN NEB		
H33-6	NGC 869	Per	Open Cluster 6.6 I 3 r	CL,VVL,VRI,*7...14
Jun 20 1980	12.5" 24mm			
Oct 03 1981	12.5" 32mm	VB,EL,BRIGHT DIAMOND SHAPE *S IN CENTER,PAIR/884		
Oct 31 1980	12.5" 24mm			
Sep 18 1980	12.5" 24mm	H & CHI DOUBLE CLUSTER		
Sep 20 1981	12.5" 24mm			
H33-7	NGC 1857	Aur	Open Cluster 11.0 I 3 m	CL,PRI,PC,ST7...
Dec 03 1980	12.5" 24mm	* APROX 7TH MAG IN CLUSTER		
H33-8	NGC 2343	Mon	Open Cluster 8.0 II 2 p n	CL,CL,P,LC
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	MB,ML,APPROX 15*S,LOOSE,SCATTERED		

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H33-8	NGC 2343	Mon	Open Cluster 8.0 II 2 p n	CL,CL,P,LC
Oct 16 1982	12.5" 24mm	MB,ML,APPROX 15*S,LOOSE,SCATTERED		
H34-1	NGC 5248	Boo	Galaxy SAB(rs)bc	B,L,E150,PSBMRN
May 06 1981	12.5" 24mm	VB,VL,BNUC,DIM HALO		
H34-2	NGC 4412	Vir	Galaxy SB(r)b? pec	F,PL,R,GBM,R
Apr 25 1981	12.5" 24mm	DIF,PF,PL,DARM		
H34-4	NGC 2022	Ori	Planetary Neb 4+2	PLN,PB,VS,VLE
Dec 28 2008	31" 17mmT4	MB,ML,R,PATCH,VF C* WITH AV,EDGES FRAILED,OIII DOESN'T HELP MUCH,R=G		
Dec 30 1983	12.5" 12mm	MF,PS,NO CENTRAL * 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		
H34-5	NGC 1990	Ori	Nebula E+R	EL,E,EPSILONORI INVP
Mar 22 2004	12.5" 25mm	DIF,VF,ML,W/OIII HINT OF NEB AROUND BRT * DETECTED,R=P		
H34-6	NGC 884	Per	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
Jun 20 1980	12.5" 24mm			
Oct 03 1981	12.5" 32mm	VB,EL,PAIR/869,BEST IN 2" EYEPIECE		
Oct 31 1980	12.5" 24mm			
Sep 18 1980	12.5" 24mm	H & CHI DOUBLE CLUSTER		
Sep 20 1981	12.5" 24mm			
H34-7	NGC 1883	Aur	Open Cluster 14.0 II 1 m	CL,VF,PRI,PC,IF
Sep 06 2002	12.5" 9mmT6	PF,PS,APPROX 20*S SAME MAG,V SHAPE,1 B* TO SIDE OF CLUSTER,TAKES POWER WELL		
H34-8	NGC 2353	Mon	Open Cluster 9.0 III 3 p	CL,L,LC,ONEVB*
Feb 25 1984	12.5" 24mm	SAME		
Oct 16 1982	12.5" 24mm	MB,ML,OVAL,SCATTERED,1 B* IN EDGE OF CLUSTER,WELL PLACED		
H35-1	NGC 4216	Vir	Galaxy SAB(s)b:	VB,VL,VME17,SBMN
Apr 25 1981	12.5" 24mm	VB,EL,ELONG,EDGE ON,BNUC,BARM		
Jun 10 1980	6" 24mm			
Mar 08 2010	31" 17mmT4	VB,VL,EDGE ON,SMALL VERY BNUC,F* OFF NUC,SOMEWHAT HISB,GMBM,PAIRS=PGC/MAC,R=E		
H35-2	NGC 4457	Vir	Galaxy (R)SAB(s)0/a	CB,PS,R,SMBMN
May 01 1981	12.5" 24mm	PB,PL,BNUC,DARM		
H35-3	NGC 3848	Vir	Galaxy Sc	EF,VS
May 18 2007	31" 17mmT4	MF,MS,PATCH,UB,NND,R=F		
H35-4	NGC 2610	Hya	Planetary Neb 4+2	F,S,ATTTO*13,*7NF
Dec 28 2008	31" 17mmT4	PB,ML,OVAL,UB,B* IN FOV,* IN EDGE,VF C*15,OIII DOESN'T HELP MUCH,R=G		
Mar 29 2006	31" 17mmT4	DIF,MB,ML,R,UB,* IN EDGE,W/OIII,PATCHY,DARK AREAS,OVAL WITH BRT EDGES,R=G		
Nov 22 2006	12.5" 12mmT4	MF,PS,R,F* ON EDGE OF NEB,OIII HELPS OUT SLIGHTLY,R=F		
H35-6	NGC 136	Cas	Open Cluster 13.0 II 1 p	GCL,VF,S,EC
Aug 13 1982	12.5" 16mm	MF,VS,R,STARS RESOLVED,20*S,FAINT PATCH IN 24MM		
Sep 28 2013	36" 17mmT4	MB,ML,~20*S SIM MAG,GOOD CLUSTERING,FEW BRTER*S, GOOD FOV,R=G		
H35-7	NGC 2224	Gem	Open Cluster cluster?	CL,PC(WITH NEB)
Dec 06 2002	12.5" 24mm	VB,VL,APPROX 20*S,LOOSE SCATTERED,NOT WELL PLACED		
H35-8	NGC 2374	CMa	Open Cluster 10.7 IV 2 p	CL,VL,PRI,LC,ST L
Nov 21 2006	12.5" 12mmT4	VB,EL,LOOSE,NOT WELL DEFINED,MANY *S VAR MAG,LITTLE CLUSTERING,FILLS FOV,R=P		
H36-1	NGC 4550	Vir	Galaxy SB0^: sp	PB,S,VLE,SP OF 2
Jun 04 1981	12.5" 24mm	DIF,PF,PS,ELONG,DARM,NGC 4551 CLOSE BY,PAIR/M89		
H36-4	NGC 2071	Ori	Nebula R	D*10\$14 W/VF,L CHEV

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H36-4	NGC 2071	Ori	Nebula R	D*10\$14 W/VF,L CHEV
Feb 21 2006	31"	31mmT5	MF,MS,PATCH,NEB DET AROUND B*,B* APPEARS AS CLOSE DOUBLE WITH F*,R=F	
Oct 05 2002	12.5"	25mm	PBPL,DIF NEBULA,BRT * TO EDGE OF NEB,CLOSE TO M78	
H36-5	NGC 206	And	Knot in Galaxy	VF,VL,ME0
Aug 10 2002	12.5"	25mm	PB,EL,KNT IN GAL,PATCHY AREA IN MILKY WAY	
H36-6	NGC 2432	Pup	Open Cluster II 2 m	CL,PL,PC,E0,ST L\$S
Nov 21 2006	12.5"	12mmT4	MF,MS,APPROX 20*S,SIMILAR MAG,LOOSELY CLUSTERED,SCATTERED,R=F	
Nov 24 2006	12.5"	12mmT4	PB,ML,APPROX 40*S,SLIGHT CLUSTERING,IRR IN SHAPE,VAR MAG,R=F	
H36-8	NGC 2396	Pup	Open Cluster 11.0 IV 1 m	CL,VL,VLC
Nov 21 2006	12.5"	12mmT4	VB,VL,APPROX 20*S,LOOSLY SCATTERED,S CLUSTERING,FEW B*S,VARIOUS MAG,R=F	
Nov 24 2006	12.5"	12mmT4	VB,VL,LOOSLY SCATTERED,SLIGHT CLUSTERING,APPROX 20*S,VAR MAG,R=F	
H37-2	NGC 4527	Vir	Galaxy SAB(s)bc	PB,L,PME69,MBM
May 03 1981	12.5"	24mm	PB,PL,ELONG,DNUC,FARM,PAIR/4536	
H37-4	NGC 6543	Dra	Planetary Neb 3a+2	PLN,VB,PS,SBMVSN
Jul 11 1980	12.5"	24mm		
Jul 14 1980	12.5"	24mm		
Jul 22 1981	12.5"	16mm	BLUEISH IN COLOR,PB,MS,NO CENTRAL * DET	
Jun 20 1980	12.5"	24mm		
Jun 23 2003	12.5"	9mmT6	VB,ML,ELONG,OVAL,VERY HISB,BRT NUC,SLIGHTLY ELONG,FAINT HALO AROUND GAL,R=E	
Mar 26 2006	31"	17mmT4	VF,PL,BRT BLUE,CENTRAL *,DETAIL IN NEB,DARK INNER RING,PAIR=IC4677,R=E	
May 19 2009	31"	17mmT4	VB,VL,BRT GREENISH,C* 10TH MAG,BRT INNER CORE,GRANULAR BALL,VF WHISPS OF NEB AROUND BALL,OIII BRINGS OUT OUTER HALO ONLY,PAIR=IC4677,R=E	
H37-5	NGC 7000	Cyg	Nebula E	F,EEL,DIF NEBULOSITY
Aug 11 1982	12.5"	32mm	EL,ONLY CERTAIN OUTLINES DET,HUNDREDS OF *S WITH COSTAL LINE EFFECT	
Aug 13 1982	12.5"	32mm	FITS WELL IN EYEPIECE,FIRST TIME SEEN THIS WELL, IMPRESSIVE!!!	
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	
H37-6	NGC 2506	Mon	Open Cluster 11.0 I 2 r	CL,PL,VRI,C,*11...20
Oct 16 1982	12.5"	24mm	MF,ML,SCATTERED 'S AROUND CLUSTER,DENSE CLUSTERING TOWARDS CENTER,APPROX 60*S	
H37-7	NGC 2262	Mon	Open Cluster II 1 m	CL,VC,IR,BM,ST ES
Mar 18 2007	31"	17mmT4	MB,ML,3-4 BRTER *S,NO CLUSTERING DET,FAINT BACKGROUND GLOW,R=P	
H37-8	NGC 2414	Pup	Open Cluster 8.2 I 3 m	CL,P,LC,ST9,\$C
Nov 21 2006	12.5"	12mmT4	PB,MS,APPROX 20*S,LOOSE,SMALL CLUSTERING,1B*,FEW FAINTER,R=F	
Nov 24 2006	12.5"	12mmT4	MB,ML,APPROX 30*S,FEW B* WITH FAINT BACKGROUND,GOOD CLUSTERING,WELL PLACED,R=G	
H38-2	NGC 4636	Vir	Galaxy E	B,L,IR,VGVMBM,R
Jun 04 1981	12.5"	16mm	MB,ML,BNUC,DIM HALO	
Mar 27 1982	12.5"	12mm	DIF,MB,PS,BNUC,COMP SUSP N TIP,B* TO W,MOD HISB,MBM	
H38-4	NGC 2182	Mon	Nebula R	PB**,L*NEB,E90
Nov 24 2006	12.5"	17mmT4	DIF,MF,VS,VF* WITH FAINT AREA OF NEB,OIII DOES NOT HELP,R=F	
Oct 05 2002	12.5"	9mmT6	SUSP ONLY,F* OFF TO ONE SIDE,LOCATION GOOD	
H38-6	NGC 6804	Aql	Planetary Neb 4+2	CB,S,IR,RRR
Aug 31 1984	12.5"	12mm	PF,MS,BNUC,R-OVAL,SBM,F* TOWARDS OUTER EDGE,PATCHY	
Jul 10 1981	12.5"	12mm	GREEN,DIF,PF,MS,CENTRAL * APPROX 14MAG	
Sep 02 2008	31"	17mmT4	MB,BL,OVAL,GREENISH,SEVERALF*S IN NEB,C* 15TH MAG,OIII DOESNOT HELP MUCH,R=G	
H38-7	NGC 2324	Mon	Open Cluster 12.0 II 2 r	CL,L,RI,CC,ST12...16
Feb 25 1984	12.5"	24mm	SAME	
Oct 16 1982	12.5"	24mm	VF,ML,APPROX 100*S,BACKGROUND GLOW,SOME BRT *S IN CLUSTER,WELL PLACED	

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H38-7	NGC 2324	Mon	Open Cluster 12.0 II 2 r	CL,L,RI,CC,ST12...16
Oct 16 1982	12.5" 24mm		VF,ML,APPROX 100*S,BACKGROUND GLOW,SOME BRT *S IN CLUSTER,WELL PLACED	
H38-8	NGC 2422	Pup M47	Open Cluster 5.0 I 3 m	CL,B,VL,PRI,ST L\$S
Dec 03 1980	12.5" 24mm			
Mar 02 1984	10" 20mm		SAME	
Mar 19 2004	12.5" 12mmT4		MESSIER MARATHON 2004	
Mar 27 1981	12.5" 24mm		MESSIER MARATHON 1981	
Mar 27 1982	12.5" 24mm		VB,VL,BRT DOUBLE * IN CENTER,APPROX 25*S,NO CLUSTERING DET,JUST B*S	
Nov 24 2006	12.5" 12mmT4		VB,EL,NOT WELL PLACED,APPROX 20*S,LOOSLY SCATTERED,M47,R=F	
Oct 16 1982	12.5" 24mm		VB,VL,FILLS 24MM,B*S,LOOSE AND SCATTERED,APPROX 50*S DIFF MAG	
H39-1	NGC 4697	Vir	Galaxy E6	VB,L,LE45,SMBMN
Mar 27 1982	12.5" 12mm		MB,ML,ELONG,OVAL,F* TO W,GMBM,TAPPED ENDS	
H39-4	NGC 2438	Pup	Planetary Neb 4+2	PLN,PB,PS,VLE,R
Dec 03 1980	12.5" 24mm		PLANETARY IN M46,GREAT!!	
Dec 28 2008	31" 17mmT4		VB,ML,R,2*S INSIDE CENT RING,INNER AREA DKER,MOD HISB INNER RING,OIII HELPS,R=E	
Mar 19 2004	12.5" 12mmT4		W/OIII. PLANETARY IN M46,RING SHAPE,CENTRAL DARKNESS,DONUT APPEARANCE,R=E	
Mar 27 1982	12.5" 12mm		MF,PS,24MM-NO CENTRAL * DET,R,UB,12MM-CENTRAL * DET,UB,R,SOME DARK PATCHES SUSP	
H39-5	NGC 3511	Crt	Galaxy SA(s)c	VF,VL,ME
Nov 24 2006	12.5" 12mmT4		MF,VL,ELONG,LARGE FNUC,* IN TIP,PAIR=3513,R=G	
H39-6	NGC 2571	Pup	Open Cluster 8.8 II 3 m	CL,VL,CRI,LC,ST9...
Oct 16 1982	12.5" 24mm		MB,ML,*S DIFFERENT MAG,SCATTERED,LOOSE,APPROX 30*S	
H39-7	NGC 1907	Aur	Open Cluster 11.0 I 1 m n	CL,PRI,PC,R,ST9...12
Mar 27 1981	12.5" 24mm			
H39-8	NGC 2302	Mon	Open Cluster 12.0 III 2 m	CL,L,P,LC
Oct 05 2002	12.5" 9mmT6		MB,ML,APPROX 30*S,LOOSE	
H40-1	NGC 4941	Vir	Galaxy (R)SAB(r)ab:	PF,L,E,GBMBN,R
Mar 22 2004	12.5" 12mmT4		MF,MS,OVAL,R,SMALL BNUC,HISB MIDDLE,GMBM,R=G	
H40-2	NGC 2911	Leo	Galaxy SA(s)0: pec	F,PL,R,GBM,P OF 2
Dec 03 1980	12.5" 24mm			
Feb 25 1984	12.5" 12mm		DIF,VF,VS,FNUC,PATCHY,SBM,OVAL,COMP SUSP TO SE	
Jan 20 2004	31" 17mmT4		PB,PL,R,LARGE BNUC,MHISB,GMBM,PAIRS=2914,PGC27175,R=G	
Jan 30 1981	12.5" 24mm		DIF,EF,ES,FNUC,FAINT HALO	
H40-4	NGC 4804	Crv	Galaxy S0	S,ATT TO PB*
Apr 06 2008	31" 17mmT4		PB,MS,ELONG,SMALL BNUC,* OFF NUC,HISB MIDDLE,BM,R=G	
H40-5	NGC 3513	Crt	Galaxy SB(rs)c	VF,VL,ME
Nov 24 2006	12.5" 12mmT4		DIF,PF,VL,OVAL,PATCH,UB,NND,SOMEWHAT HISB,PAIR=3511,R=F	
H40-6	NGC 6171	Oph M107	Globular	GCL,L,VRI,VMC,R,RRR
Apr 16 1980	6" 24mm			
Aug 13 1982	12.5" 16mm		MB,PL,SBM,R,3B*S AROUND OBJECT,SOME F* SCATTERED	
Jul 11 1980	12.5" 24mm			
Jul 21 1984	12.5" 16mm		SAME	
Jun 10 1980	6" 24mm			
Jun 18 1980	12.5" 24mm			
Mar 22 2004	12.5" 12mmT4		MESSIER MARATHON 2004	
Mar 27 1981	12.5" 24mm		MESSIER MARATHON 1981	
May 07 1980	5" 9mm			
May 09 2010	31" 17mmT4		VB,VL,TYPE VI,RESOLVED TO CORE,LARGE OUTER HALO SCATTERED *S VARIOUS	

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H40-6	NGC 6171	Oph M107 Globular	GCL,L,VRI,VMC,R,RRR
May 09 2010	31" 17mmT4	VB,VL,TYPE VI,RESOLVED TO CORE,LARGE OUTER HALO SCATTERED *S VARIOUS MAG,R=E	
Sep 10 1980	12.5" 24mm		
H40-7	NGC 7128	Cyg Open Cluster 11.5 I 3 m	CL,S,PRI,HASARUBY*9
Aug 11 1982	12.5" 24mm	MB,PS,5 OR 6 B*S CIRCLING FAINTER *S,STANDS OUT WELL,APPROX 40 *S	
H40-8	NGC 2331	Gem Open Cluster 9.0 IV 2 m	CL,L,VLC,S CL INV
Oct 05 2002	12.5" 32mm	VF,EL,LOOSE OPEN CLUSTER,APPROX 20*S,SAME MAG	
H41-2	NGC 3389	Leo Galaxy SA(s)c	F,L,E PF,VGLBM,3RD-3
Dec 03 1980	12.5" 24mm		
Feb 25 1984	12.5" 16mm	DIF,MF,ML,ELONG,PATCHY,UB,NND,PAIR/3379/3384	
Jan 30 1981	12.5" 24mm	DIF,PF,PL,FAINT HALO,PAIR/3379/3384	
Mar 27 1981	12.5" 24mm		
H41-4	NGC 6514	Sgr M20 Nebula EN+OC	VB,VL,TRIFID,D*INV
Aug 13 1982	12.5" 24mm	MB,VL,DUST LANES EASILY DET,BRT DOUBLE * IN CENTER,BOTH PARTS DET	
Jul 15 1980	12.5" 32mm	GREAT!!,DOUBLE * IS IN CENTER OF NEB	
Jul 17 1980	12.5" 24mm		
Jun 10 1980	6" 24mm		
Jun 18 1980	12.5" 24mm		
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
May 07 1980	5" 9mm		
Sep 10 1980	12.5" 24mm		
Sep 11 2012	36" 31mmT5	EB,EL W/OIII NICE D* IN CLUSTER,BROKEN PARTS,DARK LANES,BLUEISH GREEN ONE HALF,OTHER REDDISH AND FAINTER,NEB FILLS FOV,OIII GIVES MORE DETAIL IN NEB,WO/OIII NEB FAINTER,D* APPEARS BLUEISH,R=EE	
Sep 20 1981	12.5" 24mm		
Sep 20 1984	12.5" 24mm	SAME,TRIFID NEBULA	
H41-5	NGC 4244	CVn Galaxy SA(s)cd: sp	PB,VL,EE43,VGBM
Jan 26 1982	12.5" 24mm	PB,VL,EDGE ON,* ON N TIP,NND,HISB,UB,TAPPED AT BOTH ENDS	
Oct 31 1980	12.5" 24mm		
H41-6	NGC 6412	Dra Galaxy SA(s)c	GCL,CL,R,VGBM,RR
Jul 22 1981	12.5" 16mm	R,DIF,SPR STR SUSP,F* 14TH MAG N SIDE,B* FARTHER N	
Jun 24 2003	12.5" 9mmT6	PB,VL,OVAl,R,FNUC,MOD HISB,F* IN GAL,PATCHY AREAS DET,R=G	
H41-7	NGC 7296	Lac Open Cluster 10.0 II 2 p	CL,IR,LC,ST VS
Aug 11 1982	12.5" 24mm	MF,VS,1B*W EDGE,R,FOV FULL OF *S WITH HINT OF MANY MORE!!	
Sep 20 1984	12.5" 24mm	MB,PS,APPROX 20*S SCATTERED	
H41-8	NGC 1802	Tau Open Cluster 9.2 asterism?	CL,ST C SC
Jan 24 2004	31" 17mmT4	MF,EL,APPROX 20*S SAME MAG,LOOSLY SCATTERED. 2 FOV'S,R=P	
H42-1	NGC 4995	Vir Galaxy SAB(rs)b	PB,PL,R,VGPMBM,*8NP
Feb 12 1983	12.5" 16mm	MB,ML,MOD HISB,UB,NND,PATCHY	
H42-2	NGC 3547	Leo Galaxy Sb:	F,S,LE,VLBM
Mar 03 1984	12.5" 12mm	VDIF,VF,MS,PATCH-OVAL,NND,UB,NO *S	
H42-4	NGC 676	Psc Galaxy S0/a: sp	VF,E161,SBM*9
Sep 04 2002	12.5" 9mmT6	VB,VL,EDGE ON,TAPPED ENDS,SMALL VB STELLAR NUC,HISB ARMS	
H42-5	NGC 4631	CVn Galaxy SB(s)d sp	VB,VL,EE70,BMN,*ATTN
Jan 28 1982	12.5" 12mm	VB,VL,EDGE ON,* N OF NUC,F* W TIP,MOD HISB,PATCHES DET IN EQ PLANE	
Mar 17 2007	31" 17mmT4	EB,EL,ELONG,HISB,ONE SIDE THICKER,MILKY,BRT H2 REGIONS,DUST,F* OFF NUC/TIP,R=E	
H42-6	NGC 6939	Cep Open Cluster 11.9 II 1 r	CL,PL,ERI,PCM,*11.16

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H42-6	NGC 6939	Cep	Open Cluster 11.9 II 1 r	CL,PL,ERI,PCM,*11.16
Aug 19 1980	12.5" 32mm	LOC THIS FIRST BEFORE 6946		
Jul 09 1983	12.5" 24mm	MB,PL,APPROX 100"S,SOMEWHAT V SHAPED,CLUSTER HAS DEFINITE EDGE,PAIR/6946		
Jun 06 1981	12.5" 16mm	PF,PL		
H42-7	NGC 457	Cas	Open Cluster 8.6 II 3 r	CL,B,L,PRI,*7,8,10
Jul 17 1980	12.5" 24mm			
Jul 31 1981	12.5" 16mm	B*S,FEW *S APPROX 20.LARGE SCATTERED THROUGHOUT EYEPIECE		
H43-1	NGC 4594	Vir M104	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
Apr 11 2015	36" 17mmT4	EB,EL,EDGE ON,DUST LANE CUTS OFF 1/2 NUC,SM SOFT HISB GBM NUC,GRANULAR HISB ARMS,CENTRAL BULGE,TAPPERED ENDS,INCREDIBLE,R=EE		
Feb 12 1983	12.5" 16mm	VB,ML,EDGE ON,BNUC,DUST LANE EASILY DET,BRT CENTRAL BULGE,CUT IN TWO		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
May 01 1981	12.5" 24mm	VB,PL,EDGE ON,BUC,BRT HALO,DUST LANE SEEN THROUGH GAL		
May 07 1980	5" 9mm	EXCELLENT!!,DUST LANE DET,SHAPE DET		
H43-2	NGC 3162	Leo	Galaxy SAB(rs)bc	PF,CL,R,VGLBM,R,*INV
Dec 03 1980	12.5" 24mm			
Feb 25 1984	12.5" 12mm	DIF,MF,MS,FACE ON,PATCHY,UB,F* TO E SIDE,NND		
Jan 30 1981	12.5" 24mm	DIF,VB,PS,FAINT HALO		
H43-4	NGC 1186	Per	Galaxy SB	F*W/NEB APPENDAGES
Aug 17 1982	12.5" 16mm	DIF,MF,PS,ELONG,BNUC,4F*S OFF E SIDE,1*IN E TIP,B* OR STELL NUC		
Dec 06 2002	12.5" 9mmT6	PB,PL,ELONG,SEVERAL F*S ON EDGE.BRT STELLER NUC,FARMS		
Feb 04 2005	31" 17mmT4	MB,PL,EDGE ON,LARGE VFNUC,B* BY NUC,F* IN TIP,CENTRAL BULGE,SBM,PAIR=MAC,R=G		
H43-5	NGC 4258	CVn M106	Galaxy Sb	VB,VL,VME0,SBMBN
Jan 26 1982	12.5" 16mm	VB,VL,BNUC,FAINT HALO,* ON NW EDGE,OVAL,4217 TO W 1 GAL DIA		
Jul 05 1980	12.5" 24mm			
Mar 02 1984	10" 20mm	SAME		
Mar 08 2010	31" 17mmT4	VB,VL,OVAL,HISB MIDDLE,ELONG NUC,GMBM,SPRIAL ARMS,SPR STRUCTURE,DUST DET,R=EE		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
May 07 1980	5" 9mm			
Oct 31 1980	12.5" 24mm			
H43-7	NGC 7419	Cep	Open Cluster 10.0 I 2 m	CL,PRI,CC
Sep 04 2002	12.5" 32mm	PB,ML,FEW B*S WITH GLOW IN BACKGROUND		
H43-8	NGC 1750	Tau	Open Cluster OCL	CL,ST L,VCSC
Mar 22 2004	12.5" 25mm	VB,EL,FEW BRT *S LOOSLY SCATTERED,NOT WELL PLACED,OTHER CLUSTERS DET,R=F		
H44-1	NGC 6401	Oph	Globular	PB,PL,R,*12F INV
Jun 04 1981	12.5" 24mm	DIF		
H44-2	NGC 3190	Leo	Galaxy SA(s)a pec sp	B,PS,E,PSBMN
Dec 03 1980	12.5" 24mm			
Feb 25 1984	12.5" 12mm	MB,PL,ELONG,MOD HISB,CLOSE PAIR/3193/3185		
Jan 30 1981	12.5" 24mm	DIF,PB,PL,EDGE ON,DIM NUC,PAIR/3185/3193		
Mar 06 2010	31" 17mmT4	VB,VL,ELONG,SMALL BNUC,TIGHT,R VB NUC,HISB MIDDLE,MOD HISB REGION FROM NUC,PAIRS=3183/31878,R=E		
H44-3	NGC 4647	Vir	Galaxy SAB(rs)c	PF,PL,LE115,NPOFDNEB
Mar 22 2004	12.5" 12mmT4	MF,ML,OVAL,PATCH,UB,CLOSE PAIR=M60,VERY SMALL FNUC,R=F		
Mar 27 1981	12.5" 24mm			
Mar 27 1982	12.5" 12mm			

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H44-3	NGC 4647	Vir	Galaxy SAB(rs)c	PF,PL,LE115,NPOFDNEB
Mar 27 1982	12.5"	12mm		
May 09 2010	31"	17mmT4	MB,PL,PATCHY,LBNUC,CLOSE COMP=4649,PAIR=PGC42846,R=G	
H44-5	NGC 2403	Cam	Galaxy Sc	CB,EL,VME,VGMBMN
Dec 21 1981	12.5"	16mm	SPR STR DET,BEAUTIFUL!!!	
Dec 21 1981	12.5"	24mm	PB,PL,HISB,SMALL BNUC,LARGE OVAL PATCH,SOME STR SUSP,B*S IN GAL	
Sep 18 1980	12.5"	24mm	2*S IN GAL PRESENT	
H44-7	NGC 7510	Cep	Open Cluster 10.0 II 3 r n	CL,PRI,PC,FAN-SH,B*P
Aug 11 1982	12.5"	24mm	MB,VS,B*S RESEMBLE TRI,F*S NW,APPROX 30*S,STANDS OUT WELL	
Jul 09 1983	12.5"	16mm	MB,MS,ARROW HEAD SHAPE,APPROX 40*S,SIMILAR TO M103	
H45-1	NGC 6316	Oph	Globular	GCL,CB,PS,R,GVMBM
Jun 04 1981	12.5"	24mm	DIF,MF,MS	
H45-2	NGC 3193	Leo	Galaxy E2	B,S,VLE,PSLBM,*9NF
Dec 03 1980	12.5"	24mm		
Feb 25 1984	12.5"	12mm	MB,ML,R,BM,F* TO W,MOD HISB,CLOSE PAIR/3190/3185	
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,DIM HALO,PAIR/3185/3190	
Jun 10 1980	6"	24mm	JUST BARELY VISIBLE,DID NOT FIND OTHERS IN AREA	
Mar 06 2010	31"	17mmT4	EF,VL,R,LARGE BNUC,HISB,GRANULAR HALO AROUND NUC,PARIS=3190/3187,R=E	
H45-4	NGC 2392	Gem	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
Dec 04 2004	31"	17mmT4	VB,VL,WITH OIII,CENTRAL * EASY,RINGS AROUND CENTRAL *,DARK RINGS BETWEEN,OUTTER NEBULA LOOKS MATTED,BRIGHT BLUE,BEST EVER SEEN TO DATE,R=E	
Feb 21 1984	12.5"	12mm	MB,PS,ESKIMO NUBULA,CENTRAL * EASILY DET,PATCHED IN NEB DET,FORMS TRI W2*S	
Nov 22 2006	12.5"	12mmT4	EB,VL,BRT CENTRAL * GOES AWAY WITH AV,BRT BLUE BALL,PATCHY AREAS DET OUTER,R=E	
Oct 16 1982	12.5"	12mm	BLUE,MF,VS,R,UB,NO CENTRAL *	
Oct 23 1982	12.5"	12mm	CENTRAL * DET,SOME DARK AREAS IN GAS DET	
Oct 31 1980	12.5"	24mm	ESKIMO NEBULA,NON STELL,GREAT!!	
H45-5	NGC 3953	UMa	Galaxy SB(r)bc	CB,L,E0,VSBLRN
Feb 12 1983	12.5"	16mm	MB,PL,DNUC,F*W EDGE,OVAL,SOFT DIM NUC,VMBM,FACE ON,HALO	
Mar 15 1985	12.5"	16mm	SAME,PB,PL,BNUC,F* JUST W OF NUC,FACE ON,SPR STR DET	
H45-7	NGC 436	Cas	Open Cluster 10.0 I 2 m	CL,S,IF,PC
Aug 13 1982	12.5"	24mm	MF,MS,20-30 *S,LOOSE,SCATTERED	
H46-1	NGC 6355	Oph	Globular	CF,L,R,GBM,RRR
Jun 04 1981	12.5"	24mm	DIF,PF,PS	
H46-2	NGC 3301	Leo	Galaxy SB0-a	CB,S,LE53,PSBM,R
Dec 03 1980	12.5"	24mm		
Feb 25 1984	12.5"	12mm	VDIF,MB,ML,EDGE ON,BNUC,MOD HISB	
Jan 30 1981	12.5"	24mm	PB,PL,ELONG,BNUC,DIM HALO	
H46-4	NGC 5493	Vir	Galaxy S0 pec sp	PB,VS,R,PSMBM*,*18IN
Apr 26 2003	12.5"	9mmT6	VB,MS,ELONG,BNUC,VERY HISB MIDDLE,VMBM,R=E	
H46-5	NGC 3556	UMa M108	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
Apr 16 1980	6"	24mm	IN SAME FOV WITH M97	
Dec 26 2003	31"	17mmT4	VB,EL,EDGE ON,NND,MOD HISB,3*S IN GAL,H2 REGIONS DET,DUST DET,PATCHY ARMS DET,E	
Mar 02 1984	10"	20mm	SAME	
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
Mar 15 1985	12.5"	12mm	MB,PL,VERY EDGE ON,F*N EDGE,B*CENTER,MOD HISB,KNTY STR SUSP,EXCELLENT!!!	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	

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H46-5	NGC 3556	UMa M108	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
May 07 1980	5"	9mm		
Oct 22 1982	12.5"	16mm	DIF,MB,VL,F*N EDGE,EDGE ON,UB,LARGE,NND	
Oct 31 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm		
Sep 18 1980	12.5"	24mm		
H46-7	NGC 654	Cas	Open Cluster 10.0 II 2 r	CL,IF,RI,1*6.7,
Jul 31 1981	12.5"	24mm	SMALL,LITTLE DIFFUSENESS SEEN IN CLUSTER,FEW *S	
H46-8	NGC 2430	Pup	Open Cluster asterism?	CL,VL,VLC
Nov 24 2006	12.5"	12mmT4	MB,ML,APPROX 10*S,VERY LITTLE CLUSTERING,PAIR=2428,LOOSLY SCATTERED,R=P	
H47-1	NGC 6712	Sct	Globular	GCL,PB,VL,IRR,RRR
Aug 13 1982	12.5"	16mm	MB,VL,OVAL,PATCHY,SBM,OUTTER *S STARTING TO RESOLVE	
Aug 13 2007	31"	31mmT5	VB,VL,RESOLVED,17MM *S IN CORE DET,R=E	
Sep 05 2007	31"	17mmT4	PB,VL,OVAL,HUNDREDS *S,RESOLVED TO CORE,*S MOSTLY SAME MAG,R=E	
H47-2	NGC 3437	Leo	Galaxy SAB(rs)c:	PB,PL,LE120,GBM
Feb 25 1984	12.5"	16mm	DIF,MF,MS,EDGE ON,UB	
Jan 30 1981	12.5"	24mm	PB,PL,ELONG TO EDGE ON,FNUC,FAINT HALO	
H47-4	NGC 4915	Vir	Galaxy E0	PB,S,R,BM
Mar 22 2004	12.5"	12mmT4	PB,PS,R,SMALL BNUC,HISB MIDDLE,PAIRS=4918/4890,R=G	
H47-5	NGC 3079	UMa	Galaxy SB(s)c sp	VB,L,ME135
Dec 03 1980	12.5"	24mm	LOOKS LIKE MINATURE M82	
Jan 08 2003	12.5"	9mmT6	VB,BL,EDGE ON,DUST DET,SLIGHTLY BULGE IN MIDDLE,F* IN TIP,MOD HISB,PAIR/3073	
Mar 06 2003	12.5"	9mmT6	VB,EL,EDGE ON,MOD HISB,CENTRAL BULGE,SBM,DUST LANE SUSP,PAIR=3073,R=E	
Mar 15 1985	12.5"	12mm	PB,PL,F* IN N TIP,SAME *S PRESENT,S PART THICKER THAN N	
Oct 22 1982	12.5"	16mm	MF,ML,EDGE ON,F*N TIP,F*E SIDE,UB,TAPPED,NND	
H47-7	NGC 1502	Cam	Open Cluster 7.0 I 3 m	CL,PRI,CC,IF
Oct 03 1981	12.5"	24mm	MB,ML,BRT DOUBLE * IN CENTER,APPROX 20*S,NICE IN 24MM	
H47-8	NGC 2428	Pup	Open Cluster cluster?	CL,VL,VLC
Nov 24 2006	12.5"	12mmT4	PB,ML,APPROX 20*S,VERY LITTLE CLUSTERING,PAIR=2430,LOOSLY SCATTERED,R=P	
H48-1	NGC 6356	Oph	Globular	GCL,VB,CL,VGVM,RRR
Jul 21 1984	12.5"	12mm	MB,ML,BNUC,R,HISB MIDDLE,*S NOT RESOLVED	
Jun 04 1981	12.5"	24mm	MB,ML,BNUC	
Jun 10 1980	6"	24mm		
Jun 18 1980	12.5"	24mm		
H48-2	NGC 2672	Cnc	Galaxy E1-2	PB,PL,IR,MBM
Dec 03 1980	12.5"	24mm		
Feb 21 1984	12.5"	12mm	SAME,ANOTHER VF* TO E 1 GAL DIA,SBM,DIF,MF,PS,ELONG,SN?	
Mar 26 2006	31"	17mmT4	VB,VL,R,LBNUC,F* OFF EDGE,CLOSE COMP=2673,MOD HISB ARMS,BM,HISB MID,MINI M51,R=E	
Oct 24 1981	12.5"	16mm	EDIF,PF,VS,F*N 1 GAL DIA,SOMEWHAT BM	
H48-4	NGC 3104	LMi	Galaxy IAB(s)m	EF,PL,E,VF* INV
Dec 26 2003	31"	17mmT4	VDIF,VF,ML,OVAL,PATCH,UB,F* IN GAL,R=P	
H48-5	NGC 1097	For	Galaxy SB(s)b	VB,L,VME151,VBMN
Sep 09 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm		
Sep 16 2009	31"	17mmT4	EB,EL,OVAL,EXT LARGE BNUC,SUDDENLY MBM,CENTRAL REG UB,LARGE HALO OF ARMS,INTER=1097A,R=E	

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H48-7	NGC 559	Cas	Open Cluster 9.0 I 1 m	CL,B,PL,PRI
Jul 31 1981	12.5" 24mm	FEW B*S, MOSTLY FAINTER *S APPROX 10-11 MAG, APPROX 50*S IN ALL		
H48-8	NGC 2260	Mon	Open Cluster 8.0 cluster?	CL,VL,P,VLC,ST L\$S
Mar 18 2007	31" 31mmT5	VB,EL, APPROX 15*S, FEW B*, MOST SAME MAG, VERY LITTLE CLUSTERING, LOOSE, R=P		
H49-1	NGC 6522	Sgr	Globular	GCL,B,PL,R,GVMBM,RRR
Aug 13 1982	12.5" 16mm	MF,VS,F*NE EDGE,R,MBM, OUTER *S JUST RESOLVABLE, PAIR/6538		
Sep 20 1984	12.5" 12mm	PF,PS,2F*S BOTH SIDES,EF* ON W EDGE,SBM,PATCHY-R,PAIR/6528 TO W		
H49-2	NGC 3599	Leo	Galaxy SA0:	B,PS,R,PGMBM
Jan 08 2003	12.5" 9mmT6	DIF,MF,MS,DNUC,R,FACE ON,GMBM,MOD HISB IN MIDDLE,SMALL NUC REGION		
H49-3	NGC 2648	Cnc	Galaxy Sa	F,S,VLE135,PSBM
Mar 26 2006	31" 17mmT4	VB,VL,ELONG,LBNUC,FAINT OUTER ARMS,MBM,HISB MIDDLE,LARGE CENTRAL BULGE,PAIR,R=E		
H49-4	NGC 5507	Vir	Galaxy SAB(r)0^	CF,S,R,STELLAR
Apr 26 2003	12.5" 9mmT6	PB,ML,ELONG,FNUC,SOMEWHAT HISB,ROUND SOFT NUC,GBM,PAIR=5506,R=G		
H49-5	NGC 1624	Per	Open Cluster II 1 p n	F,CL,IF,60R7*+NEB
Aug 10 2002	12.5" 24mm	MS,PF,TIGHT GROUPING,STANDS OUT WELL,20*S,RESOLVED		
H49-7	NGC 637	Cas	Open Cluster 8.0 I 2 m	CL,PS,B\$VF ST
Jul 31 1981	12.5" 24mm	SMALL IN SOMEWHAT BARREN * FIELD,FEW F*S SEEN		
H49-8	NGC 2240	Aur	Open Cluster sparse gr	CL,PL,P,VLC,*7,10.15
Feb 17 2004	31" 17mmT4	VB,VL,APPROX 15 *S LOOSE AND SCATTERED,VARIOUS MAGNITUDES,R=P		
H50-1	NGC 6624	Sgr	Globular	GCL,VB,PL,R,RRR,ST16
Aug 13 1982	12.5" 16mm	VB,MS,BNUC,R,VMBM		
H50-2	NGC 3607	Leo	Galaxy SA(s)0^:	VB,L,R,VMBM,2ND OF 3
Jan 30 1981	12.5" 24mm	PB,PL,BNUC,PAIR/3605/3608		
Jun 10 1980	6" 24mm	VERY DIFFICULT TO FIND. NO GUIDE *S		
Mar 03 1984	12.5" 12mm	VB,ML,BNUC,R,BM,PAIRS/3608/3605		
Mar 06 2010	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,PAIRS=3606/3605/PGC34407,R=E		
H50-4	NGC 6229	Her	Globular	GCL,VB,L,R,DISC,R
Apr 18 1980	6" 24mm	LOOKS LIKE 3RD * IN A TRI		
Feb 25 1982	12.5" 16mm	MB,MS,BNUC,MOD HISB,ALMOST RESOLVED,R		
Jul 11 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm			
H50-7	NGC 7067	Cyg	Open Cluster 11.2 II 1 p	CL,P,(NEB)
Sep 04 2002	12.5" 32mm	PB,PS,APPROX 20*S,FAINT PATCH IN CLUSTER		
H50-8	NGC 2252	Mon	Open Cluster 9.0 III 2 m n	CL,VL,PRI,LC,STS
Oct 05 2002	12.5" 24mm	PB,PL,APPROX 50*S SCATTERED AND LOOSE,DIFFERENT MAG		
H51-1	NGC 6638	Sgr	Globular	GCL,B,S,R,RR
Jun 17 1980	12.5" 24mm			
Jun 18 1980	12.5" 24mm			
H51-2	NGC 3608	Leo	Galaxy E2	B,PL,R,PSBM,3RD OF 3
Jan 30 1981	12.5" 24mm	DIF,PF,PL,ELONG,FAINT NUC AND HALO,PAIR/3605/3607		
Mar 03 1984	12.5" 12mm	MB,ML,BNUC,SLIGHTLY ELONG,BM,SEVERAL *S NE AND NW,PAIR/3607/3605		
Mar 10 2007	31" 17mmT4	MF,MS,OVAL,LARGE FNUC,PAIRS=MAC'S,R=F		
H51-4	NGC 6818	Sgr	Planetary Neb 4	PLN,B,VS,R
Jul 15 1980	12.5" 24mm			
Jul 30 2002	12.5" 16mm	MB,ML,BRT BLUE GREEN,VERY ROUND		

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H51-4	NGC 6818	Sgr	Planetary Neb 4	PLN,B,VS,R
Jul 30 2002	12.5" 16mm	MB,ML,BRT BLUE GREEN,VERY ROUND		
Jun 17 1980	12.5" 9mm	GREAT,LOOKS LIKE 6210		
Jun 18 1980	12.5" 24mm			
Sep 02 2008	31" 17mmT4	VB,ML,R,OIII HELPS MUCH,BRT BLUEISH GREEN,CENTRAL REGION DARK,NO C* DET,R=E		
Sep 20 1981	12.5" 24mm			
Sep 20 1984	12.5" 12mm	PB,PS,F* JUST TO W,UB,R		
H51-5	NGC 4236	Dra	Galaxy SB(s)dm	VF,EL,ME160,VGBM
Apr 23 2003	12.5" 9mmT6	DIF,MF,EL,ELONG,PATCH,LARGE,PATCHES DET,H2 REGIONS SUSP,R=G		
H51-7	NGC 7062	Cyg	Open Cluster 10.1 II 2 m	CL,PS,PRI,PC,ST13...
Aug 11 1982	12.5" 24mm	MB,ML,UNIFORM DIST,FEW B*S WITH F*S,R,APPROX 50*S		
H51-8	NGC 2306	Mon	Open Cluster 8.0 cluster?	CL,P,VLC
Mar 18 2007	31" 31mmT5	VB,EL,NO CLUSTERING DET,RICH * FOV,SCATTERED,VARIOUS MAG,R=P		
H52-1	NGC 7006	Del	Globular	B,PL,R,GBM
Jul 08 1983	12.5" 12mm	DIF,MF,MS,FNUC,R,SBM,SOFT GLOW		
Jul 30 1981	12.5" 24mm	BNUC,NO *S IN HALO SEEN,R,SMALL VERY DIF		
Jul 31 2002	12.5" 12mm	SAME		
H52-2	NGC 3626	Leo	Galaxy S0-a	B,S,VLE,SBM
Jan 30 1981	12.5" 24mm	VB,PS,BNUC,PAIR/M65/M66/3628		
Mar 03 1984	12.5" 12mm	MB,PS,BNUC,R,BM		
H52-4	NGC 7635	Cas	Nebula E	VF,*8INV L EXCENTRIC
Jul 31 1981	12.5" 16mm	VDIF,IRR IN SHAPE,NEB AROUND B*,BUBBLE NEBULA		
H52-5	NGC 3359	UMa	Galaxy SB(rs)c	PB,L,E0,GLBM
Mar 15 1985	12.5" 16mm	OVAL,PATCH,UB,STELL NUC DET		
Mar 15 1985	12.5" 24mm	DIF,MF,PL,LARGE DISFUSE PATCH IN BARREN AREA		
H52-7	NGC 7082	Cyg	Open Cluster 9.9 IV 2 p	CL,L,CRI,LC,ST10..13
Sep 04 2002	12.5" 32mm	PB,VL,APROX 20-30 *S,LOC IN RICH * FIELD,DOES NOT STAND OUT WELL		
H53-1	NGC 7331	Peg	Galaxy SA(s)b	B,PL,PME163,SMBM
Jul 06 1983	12.5" 16mm	MB,PL,EDGE ON,LARGE BNUC,TAPPERED ENDS,DUST LANE SUSP IN 12MM		
Jul 07 1981	12.5" 24mm	PB,PL,EDGE ON,BRT NUC,DIM AREA		
Jul 11 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
Jul 29 1981	12.5" 24mm	SAME,3 COMP GAL SEEN,7335/7336/7340		
Jun 17 1980	12.5" 24mm	TWLIGHT STARTING,OBJECT WASHED OUT		
Jun 20 1980	12.5" 24mm			
Jun 27 2003	12.5" 9mmT6	EB,EL,BNUC,VERY HISB,DUST DET,LARGE BRT NUC,FAINT HALO & ARMS,OTHERS PRESENT,R=E		
Sep 01 2002	12.5" 12mm	SAME		
Sep 07 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 17 2003	31" 25mm	EB,EL,EDGE ON,BNUC,HISB,TIGHT BRT NUC,DUST LANE,COMP DET,7331 CLUSTER,R=E		
Sep 18 1980	12.5" 24mm			
Sep 18 1982	12.5" 16mm	MB,ML,EDGE ON,BNUC,DUST LANE SUSP,TAPPERED ENDS,7335 CLOSE BY		
Sep 21 1984	12.5" 12mm	MB,ML,EDGE ON,SAME,COMP CLOSE BY		
H53-2	NGC 3659	Leo	Galaxy SB(s)m?	CF,S,LE,R
Mar 03 1984	12.5" 12mm	VDIF,MF,MS,PATCHY,OVAL,NND,UB,NO *S		

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H53-2	NGC 3659	Leo	Galaxy SB(s)m?	CF,S,LE,R
Mar 03 1984	12.5" 12mm	VDIF,MF,MS,PATCHY,OVAL,NND,UB,NO *S		
H53-4	NGC 1501	Cam	Planetary Neb 3	PLN,PB,PS,VLE,1'DIAM
Oct 03 1981	12.5" 12mm	VERY R,UB,F CENTRAL * 14TH MAG DET,GREEN,DIF,MF,MS		
Oct 09 2010	31" 17mmT4	MB,ML,R,C* 13TH MAG,GRAYISH GREEN COLOR,VERY R,SHARP EDGES,DARKER INNER RING,OIII HELPS LITTLE,C* GOES AWAY,R=E		
H53-7	NGC 7209	Lac	Open Cluster 9.0 III 1 m	CL,L,CRI,PC,ST9...12
Jul 15 1980	12.5" 24mm	CLUSTER WELL PLACED		
Sep 20 1984	12.5" 24mm	VB,VL,APPROX 40-50*S,SCATTERED,NICE,*S APPROX SAME MAG		
H53-8	NGC 6507	Sgr	Open Cluster 12.0 IV 3 m	CL,PS,LRI,LC
Sep 04 2002	12.5" 24mm	MF,PL,APPROX 20-30*S SAME MAG,SOMEWHAT FAINT BACKGROUND GLOW		
H54-1	NGC 393	And	Galaxy S0-:	F,VS,VLE,GBM,4S*NR
Sep 10 2004	31" 17mmT4	VB,PL,R,LARGE BNUC,HISB MIDDLE,SMBM,PAIR=389,R=G		
H54-2	NGC 3691	Leo	Galaxy SBb?	F,PS,LE,R
Jan 30 1981	12.5" 24mm	DIF,EF,PS,EF HALO DET,SEVERAL COMP		
Mar 03 1984	12.5" 12mm	VDIF,VF,MS,OVAL,PATCHY,UB,NND,F*E 1 GAL DIA		
H54-4	NGC 4143	CVn	Galaxy SAB(s)0^	CB,R,VG,VSBMN
Feb 12 1983	12.5" 16mm	MB,PS,ELONG,BNUC,SBM,TAPPERED		
Jan 26 1982	12.5" 16mm	PB,ML,BNUC,NUC DET,VMBM		
Jul 05 1980	12.5" 24mm			
H54-7	NGC 2253	Cam	Open Cluster	VF,ST ES
Feb 05 2005	31" 17mmT4	MF,VL,APPROX 20-40*S SAME MAG,LOOSLY SCATTERED,LITTLE CLUSTERING,R=P		
H55-1	NGC 7479	Peg	Galaxy SB(s)c	PB,CL,ME12,BET2ST
Jul 07 1981	12.5" 24mm	DIF,MF,PL,DIM ARMS,F* (15MAG) ON N SIDE		
Jul 11 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	EF,PL		
Oct 07 2010	31" 17mmT4	PB,PL,SMALL BNUC,SCORPIN TAIL,BARRED SPIRAL,ONE SIDE,BRTER ARM THAN OTHER,ARMS,R=E		
Sep 21 1984	12.5" 16mm	SAME,MB,PL,VF* ON N TIP,FACE ON,SPR SHAPE DET,S ARM BRT THAN N		
H55-2	NGC 4394	Com	Galaxy (R)SB(r)b	PB,LE,BM
Feb 12 1983	12.5" 16mm	MF,MS,DNUC,R,SBM,PAIR/4382		
Mar 08 2010	31" 17mmT4	MB,MS,ELONG,LARGE BNUC,MOD HISB MIDDLE,GMB,PAIR=4382,R=G		
Mar 27 1981	12.5" 24mm			
H55-3	NGC 3300	Leo	Galaxy SAB(r)0^:?	CF,CS,R,PMBM,R,AMBST
Feb 25 1984	12.5" 16mm	VDIF,VF,MS,PATCHY,OVAL,SBM		
H55-4	NGC 2537	Lyn	Galaxy SB(s)m pec	GCL,PB,PL,R,RRR,ST20
Nov 24 2003	31" 17mmT4	MB,VL,R,NND,SHISB,VF* ON EDGE,BAR SUSP,DUST SUSP,KNT IN GAL DET,PAIR=2537A,R=E		
H55-7	NGC 7762	Cep	Open Cluster 11.0 II 2 m	CL,PRI,PC,*11...15
Jul 09 1983	12.5" 24mm	MF,ML,DOESNOT STAND OUT WELL,LOOSE		
H55-8	NGC 6596	Sgr	Open Cluster II 2 m n	CL,LC
Sep 04 2002	12.5" 24mm	MB,ML,LOOSE,SCATTERED,APPROX 30*S, SAME MAG,DOESNOT STAND OUT WELL		
Sep 12 2007	31" 31mmT5	VB,VL,APPROX 20*S VAR MAG,LITTLE CLUSTERING,LOOSE,SCATTERED,R=P		
H56-1	NGC 2903	Leo	Galaxy SAB(rs)b	CB,VL,E,GMBM,R,SPOF2
Apr 16 1980	6" 24mm	SPR STR SUSP,DIF		
Dec 03 1980	12.5" 24mm			
Feb 25 1984	12.5" 12mm	MB,PL,ELONG,BNUC,3*S OFF TO ONE SIDE,SBM,MOD BRT EQ PLANE		
Jan 20 2004	31" 17mmT4	EB,EL,OVAL,VERY LARGE BNUC,HISB,BAR DET,BRT H2 REGION ONE SIDE,ARMS DET,BRT H2 REGION IS NGC 2905, AWSOME,R=E		
Jan 30 1981	12.5" 24mm	VB,VL,BNUC,DIF HALO,GREAT!!		

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H56-1	NGC 2903	Leo	Galaxy SAB(rs)bc	CB,VL,E,GMBM,R,SPOF2
Jan 30 1981	12.5" 24mm	VB,VL,BNUC,DIF HALO,GREAT!!		
Jun 10 1980	6" 24mm			
Oct 31 1980	12.5" 24mm			
H56-2	NGC 4450	Com	Galaxy SA(s)ab	B,L,R,GVMBM*,R,B*SP
Feb 12 1983	12.5" 16mm	MB,ML,FNUC,R,LARGE NUC,HALO DET		
Jun 10 1980	6" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,ELONG,SMALL BNUC,SMBM,HISB MIDDLE,GRANULAR OVAL ARMS,R=E		
H56-4	NGC 4051	UMa	Galaxy SAB(rs)bc	B,VL,E,VGVSMBM*11
Feb 12 1983	12.5" 16mm	MB,PL,FAINT NUC,F*W EDGE,BRT * E,STELL NUC,KNTS SUSP,FACE ON,OVAL		
H56-7	NGC 7790	Cas	Open Cluster 10.0 II 2 m	CL,PRI,PC
Jul 31 1981	12.5" 24mm	FEW *S,SCATTERED IN FIELD *S		
H56-8	NGC 6910	Cyg	Open Cluster 9.6 I 3 m n	CL,PB,PS,P,PC,*20.12
Aug 13 1982	12.5" 24mm	VERY LOOSE,APPROX 20 *S,PB,PL		
H57-1	NGC 2905	Leo	Knot in Galaxy	VF,CL,R,PSBM,R,NFOF2
Jan 20 2004	31" 17mmT4	MF,MS,PATCH,BRT AREA IN NGC2903,R=F		
H57-2	NGC 2872	Leo	Galaxy E2	PF,PS,R,BM
Mar 10 2007	31" 17mmT4	PB,ML,ELONG,LARGE BNUC,MOD HISB,MBM,PAIRS=2875/2873,R=G		
H57-7	NGC 2192	Aur	Open Cluster 14.0 II 2 m	CL,CL,C,IF,ST VS
Oct 20 2006	31" 17mmT4	VB,VL,APPROX 50*S SIMILAR MAG,FEW BRTER *S,WELL PLACED,CLUSTERING GOOD,R=G		
H58-1	NGC 1395	Eri	Galaxy E2	B,PS,E,PSMBM
Oct 24 1981	12.5" 12mm	MB,ML,BNUC,R,GMBM		
Sep 09 1980	12.5" 24mm			
H58-2	NGC 2875	Leo	Knot in Galaxy SB(r)bc	EF,NF 2874
Mar 10 2007	31" 17mmT4	PB,ML,ELONG,SMALL BNUC,SHISB,ELONG WITH PATCH OR BUMP OFF NUC,PAIRS=NGC'S,R=G		
H58-4	NGC 40	Cep	Planetary Neb 3b+3	F,VS,R,VSMBM,*12SP
Aug 13 1982	12.5" 16mm	BG COLOR,MF,PS,R,BRT CENTRAL *(10TH MAG),SIM TO BLINKING PL,F*W SIDE		
Aug 13 1982	12.5" 7mm	ELONGATION STARTING TO SHOW UP		
Jul 09 1983	12.5" 12mm	MB,PS,BNEC,BRT CENTRAL *,SHARP EDGES,R		
Sep 02 2008	31" 17mmT4	PB,ML,OVAL,LAYERS OF RINGS DET,BRT C*,GREENISH,F* ON EDGE,OIII NO HELP,R=E		
H58-7	NGC 2479	Pup	Open Cluster III 1 m	CL,PL,PRI,PC,ST S
Oct 16 1982	12.5" 24mm	MF,VL,40-50*S,SCATTERED,APPROX SAME MAG		
H58-8	NGC 6997	Cyg	Open Cluster III 2 m n	CL,P,LC,ST L
Sep 04 2002	12.5" 32mm	VB,EL,APPROX 40*S VARYING IN BRIGHTNESS,WELL PLACED IN 32MM		
H59-1	NGC 2784	Hya	Galaxy SA(s)0^:	B,L,ME64,GMBM
Mar 29 2006	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,HISB MIDDLE,GMBM,PAIRS=MAC'S,R=G		
H59-7	NGC 6866	Cyg	Open Cluster 10.0 II 2 r	CL,L,VRI,CC
Jun 06 1981	12.5" 16mm	MB,MS		
H59-8	NGC 1664	Aur	Open Cluster 10.0 III 1 p	CL,LRI,LC,PL
Apr 16 1980	6" 24mm	VERY DISPERSE,FILLS FOV,SOMEWHAT DETECTABLE		
Aug 21 1982	12.5" 24mm	MB,PL,B* OUTSIDE CLUSTER,*S SAME MAG,APPROX 50*S,SCATTERED,NICE IN 24MM		
Feb 09 2013	36" 31mmT5	EB,EL,APPROX 100*S SCATTERED VARIOUS MAG'S,MOD CLUSTERING,FILLS FOV,R=G		
H60-1	NGC 1332	Eri	Galaxy S(s)0-: sp	VB,S,E114,SMBMN
Oct 24 1981	12.5" 12mm	MB,ML,BNUC,F* OFF W SIDE,OVAL		
Oct 31 1980	12.5" 24mm	PAIR/1325		
Sep 09 1980	12.5" 24mm			
H60-4	NGC 3310	UMa	Galaxy SAB(r)bc pec	CB,PL,R,VG,VSMBMN

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H60-4	NGC 3310	UMa	Galaxy SAB(r)bc pec	CB,PL,R,VG,VSMBMN
Dec 03 1980	12.5"	24mm		
Mar 15 1985	12.5"	12mm	SAME	
Oct 22 1982	12.5"	12mm	SAME	
Oct 22 1982	12.5"	16mm	MB,MS,HISB,R,SBM,FORMS TRI WITH 2F*S,B* IN FIELD	
H60-7	NGC 1513	Per	Open Cluster 11.0 II 1 m	CL,L,VRI,PC,ST VL
Oct 03 1981	12.5"	24mm	MB,ML,APPROX 40*S,DARK PATCH IN CENTER,U SHAPED	
Sep 03 1980	12.5"	24mm		
H60-8	NGC 2311	Mon	Open Cluster 12.0 III 2 m	CL,LC,NOT RI
Oct 16 1982	12.5"	24mm	MF,ML,APPROX 40*S SAME MAG,R	
H61-1	NGC 2974	Sex	Galaxy E4	B,CS,IR,BM,*9SP43"
Jan 29 2014	36"	17mmT4	MB,ML,OVAL,LARGE BNUC,* OFF EDGE,MOD HISB MIDDLE,R=G	
Oct 22 1982	12.5"	12mm	MF,VS,SLIGHTLY ELONG,B* ON W TIP,HISB,GMBM	
H61-2	NGC 4294	Vir	Galaxy SB(s)cd	F,L,ME135,BIN,P OF 2
Apr 25 1981	12.5"	24mm	DIF,EF,PS,FARM,PAIR/4299	
H61-4	NGC 3992	UMa M109	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
Dec 26 2003	31"	17mmT4	EB,EL,ELONG,VERY LARGE BNUC,HISB NUC,FARMS DET,PATCHY AREAS DET,M109,R=E	
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Sep 18 1980	12.5"	24mm		
H61-7	NGC 1528	Per	Open Cluster 10.0 II 2 m	CL,B,VRI,CC
Jul 17 1980	12.5"	24mm		
Oct 03 1981	12.5"	24mm	VB,VL,ONE HALF CLUSTER BRT THAN OTHER,APPROX 50*S	
Sep 03 1980	12.5"	24mm		
H61-8	NGC 1778	Aur	Open Cluster 10.1 III 2 p	CL,PC,LRI,IF,ST L
Sep 06 2002	12.5"	24mm	PB,ML,APPROX 20*S,LOOSLY SCATTERED,*S SIMILAR MAG	
H62-1	NGC 701	Cet	Galaxy SB(rs)c	F,PL,E,VGVLBM,R
Nov 22 2006	12.5"	12mmT4	MF,PS,ELONG,PATCH,UB,NND,R=F	
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	EDIF,PF,PS,SOMEWHAT OVAL,UB,NND	
H62-2	NGC 4299	Vir	Galaxy SAB(s)dm:	F,L,LE,VGBM,F OF 2
Apr 25 1981	12.5"	24mm	DIF,EF,ES,FARM,PAIR/4294	
H62-4	NGC 3982	UMa	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
Feb 12 1983	12.5"	16mm	MB,MS,DNUC,R,SBM,SAME 24MM FIELD WITH 3998	
H62-7	NGC 6756	Aql	Open Cluster 13.0 I 1 m	CL,S,RI,LC,*11...12
Aug 31 1984	12.5"	16mm	SAME	
Jul 10 1981	12.5"	16mm	INDIVIDUAL *S JUST BARELY VISIBLE,VERY DIF,RESEMBLES A LARGE GAL OR GLOBULAR X	
H62-8	NGC 7708	Cep	Open Cluster 7.3 asterism?	CL,L,P,LC,*8,10...15
Sep 18 2004	31"	25mm	VB,EL,APPROX 50*S,SEVERAL FOV'S,VAR MAG,SCATTERED,R=P	
H63-1	NGC 1052	Cet	Galaxy E4	B,PL,R,MBM*12
Sep 07 1980	12.5"	24mm		
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	PB,MS,BNUC,MBM,R,F*NW 1 GAL DIA SUSP,PAIR/1048	
H63-2	NGC 4313	Vir	Galaxy SA(rs)ab: sp	VF,L,E135,R
Apr 26 2003	12.5"	9mmT6	VB,VL,EDGE ON,UB,NND,MOD HISB,R=E	
H63-4	NGC 5204	UMa	Galaxy SA(s)m	PB,CL,IR,GMBM,R

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H63-4	NGC 5204	UMa	Galaxy SA(s)m	PB,CL,IR,GMBM,R
Apr 03 2005	31"	17mmT4	PB,VL,OVAL,UB,NND,SHISB,CLOSE COMP=MAC,PAIRS=MAC,R=G	
H63-7	NGC 2627	Pyx	Open Cluster 11.0 II 2 r	CL,CL,PRI,PC,*11..13
Oct 22 1982	12.5"	16mm	MF,MS,FEW B*S WITH FAINTER BACKGROUND *S,CLUSTER TO S SUSP	
H63-8	NGC 7234	Cep	Open Cluster cluster?	CL,S,P,LC
Jun 20 2004	31"	17mmT4	MF,PS,APPROX 7 *S SIMILAR MAGNITUDE,R=F	
Sep 12 2002	12.5"	32mm	PF,VS,APPROX 10*S SIMILAR MAG,FAINT GLOW PRESENT	
Sep 18 1982	12.5"	16mm	DIF,VF,PS,R,SBM,CLOSE PAIR/7235	
H64-1	NGC 1084	Eri	Galaxy SA(s)c	VB,PL,E,GPMBM
Oct 24 1981	12.5"	12mm	MB,ML,ELONG,HISB,PATCHY,NND,VMBM	
Oct 31 1980	12.5"	24mm		
Sep 09 1980	12.5"	24mm		
H64-4	NGC 2440	Pup	Planetary Neb 5+3	PLN,CB,NOT VWELL DEF
Dec 03 1980	12.5"	24mm	SIM TO SATURN NEBULA,BRT BLUE,SLIGHT DIF NEB AROUND OBJECT	
Dec 28 2008	31"	17mmT4	VB,PL,EL,NO C*,IRR,2 HALVES/LOBS,HISB MIDDLE,F OUT SHELL,OIII HELP DETAIL,R=E	
H64-7	NGC 2567	Pup	Open Cluster 11.0 II 2 m	CL,PL,PRI,LC,IR,*11.
Oct 16 1982	12.5"	24mm	VF,ML,APPROX 40*S,SCATTERED,APPROX SAME MAG *S	
H64-8	NGC 381	Cas	Open Cluster 10.0 III 1 m	CL,PC
Jul 31 1981	12.5"	24mm	BLENDS IN WITH FIELD OF *S OF APPROX SAME MAG	
Sep 03 1980	12.5"	24mm		
Sep 28 2013	36"	17mmT4	VB,BL,~30*S,LOOSLY SCATTERED,FILLS FOV,R=F	
H65-1	NGC 4361	Crv	Planetary Neb 3a+2	VB,L,R,VSMBMN,R
Mar 16 2009	31"	17mmT4	VB,EL,BRT C*,SQUARE SHAPE NEB,GREENISH,W/OIII,NEB MORE PRONOUNCED,HELPS A LITTLE,NEB MORE SQUARE LIKE,R=E	
May 03 1981	12.5"	16mm	BLUE GREEN,PB,PL,CENTRAL * APPROX 11MAG DET	
H65-2	NGC 4429	Vir	Galaxy SA(r)0+	B,L,CE,PSBM,*10NF
Apr 25 1981	12.5"	24mm	DIF,PB,PL,FNUC,DARM	
H65-4	NGC 2346	Mon	Planetary Neb 3b+4	*10AFF W/ S,VF,NEB
Dec 28 2008	31"	17mmT4	VB,PL,R,HISB,BRT C*11,BRT GREENISH,MORE NEB WITH AV,OIII DOESN'T HELP MUCH,R=E	
Oct 05 2002	12.5"	9mmT6	PB,PS,BNUC,VBM,CENTRAL * APPROX 8 MAG,R,HISB,BLUE GREEN CENTRAL REGION	
H65-7	NGC 2401	Pup	Open Cluster I 1 p	CL,S,CRI,CC,ST VS
Nov 24 2006	12.5"	12mmT4	MF,MS,APPROX 30-40*S,FAINT GLOW,GOOD CLUSTERING,SIMILAR MAG,WELL PLACED,R=G	
H65-8	NGC 659	Cas	Open Cluster 10.0 I 2 m	CL,LRI,ST B
Aug 13 1982	12.5"	24mm	MF,MS,SCATTERED,APPEARS TO BE BROKEN IN CENTER,CLOSE TO 663	
H66-1	NGC 2781	Hya	Galaxy SAB(r)0+	B,S,VLE,PSMBM
Mar 29 2006	31"	17mmT4	PB,VL,ELONG,LARGE BNUC,HISB MIDDLE,BM,R=G	
H66-2	NGC 4503	Vir	Galaxy SB0-	PB,S,R,GBM
May 01 1981	12.5"	24mm	PF,PS,FNUC	
H66-3	NGC 3303	Leo	Galaxy Pec	VF,VS,VLE,GLBM,R
Mar 26 2006	31"	17mmT4	PB,PL,PATCH,LBNUC,MHISB,PATCHY,BRT H2 AREAS,ARM STRUCTURE,PAIR=PGC31558,R=G	
H66-4	NGC 2701	UMa	Galaxy SAB(rs)c:	PB,FANSHAPED,*11ATT
Mar 15 1985	12.5"	12mm	EDIF,VF,MS,OVAL PATCH,UB,B* IN S PART,NND,SN?	
H66-7	NGC 7142	Cep	Open Cluster 11.0 I 2 r	CL,CL,CRI,PC,*11..14
Aug 11 1982	12.5"	24mm	MF,VL 3OR 4 B*S WITH HUNDREDS OF F*S SCATTERED,PAIR/7129	
Jul 09 1983	12.5"	24mm	MB,ML,LOOSE-SCATTERED,APPROX 40*S SAME MAG	
H66-8	NGC 1027	Cas	Open Cluster 9.0 II 3 m n	CL,L,SC ST,ONE10M
Aug 13 1982	12.5"	24mm	VB,VL,BRT * IN CLUSTER,15*S	

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H66-8	NGC 1027	Cas	Open Cluster 9.0 II 3 m n	CL,L,SC ST,ONE10M
Aug 13 1982	12.5" 24mm	VB,VL,BRT *	IN CLUSTER,15"S	
H67-1	NGC 3962	Crt	Galaxy E1	CB,PL,IR,GMBM,TRI2*
Feb 12 1983	12.5" 16mm	MB,VS,BNUC,R,HISB,BM		
H67-4	NGC 3963	UMa	Galaxy SAB(rs)bc	PF,CL,R,VG,SBM
Mar 15 1985	12.5" 16mm	DIF,PF,PS,OVAL,UB,NND,COMP TO SW = 3958		
H67-7	NGC 2421	Pup	Open Cluster 11.0 I 2 r	CL,L,CRI,*11...13
Dec 03 1980	12.5" 24mm			
Oct 16 1982	12.5" 24mm	MF,ML,LOOSE AND SCATTERED,APPROX 30"S SAME MAG		
H67-8	NGC 7160	Cep	Open Cluster 7.0 I 3 p	CL,P,VLC
Aug 11 1982	12.5" 24mm	VB,MS,2B"S IN CENTER,20-30 "S,DOES NOT STAND OUT WELL IN FOV		
Jul 09 1983	12.5" 24mm	MB,ML,COUPLE OF B"S IN CLUSTER WITH FAINTER "S,APPROX 50"S,LOOSE		
H68-1	NGC 4856	Vir	Galaxy SB(s)0/a	B,R,PSMBM,*13NP
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,R,BM,VF* ON N EDGE		
H68-2	NGC 4564	Vir	Galaxy E	PB,S,LE,PSBM
Jun 04 1981	12.5" 24mm	VB,VS,BNUC,PAIR/4567/4568		
May 09 2010	31" 17mmT4	PB,ML,ELONG,SBNUC,GMBM,MOD HISB,HISB MIDDLE,R=G		
H68-4	NGC 2950	UMa	Galaxy (R)SB(r)0^a	B,PS,R,VGVMBMN
Apr 14 2004	31" 17mmT4	MF,PS,R,LARGE BNUC,SEVERAL F"S ON EDGE OF HALO,HISB MIDDLE,GMBM,R=G		
Aug 22 1980	12.5" 24mm			
Dec 03 1980	12.5" 24mm			
Mar 15 1985	12.5" 12mm	SAME,PF,VS,BNUC,R,BM,NO "S CLOSE IN		
Oct 16 1982	12.5" 12mm	MF,PS,BNUC,* OFF NW SEVERAL GAL DIA,GMBM,OVAL		
H68-8	NGC 2126	Aur	Open Cluster 13.0 III 2 m	CL,NOT RI,*7M NORTH
Aug 21 1982	12.5" 24mm	MF,PL,B* IN CLUSTER,TRI SHAPE,APPROX 20-30"S,NICE IN 24MM		
H69-1	NGC 4902	Vir	Galaxy SB(r)b	PB,PL,IR,ST NR
Mar 22 2004	12.5" 12mmT4	MB,PL,OVAL,LARGE FNUC,SHISB,PAIR=4887,R=G		
H69-2	NGC 4608	Vir	Galaxy SB(r)0^a	PB,PL,R,PSBM,R,*NP1'
Jun 04 1981	12.5" 24mm	DIF,MF,PS,DIM HALO,PAIR/4596		
H69-4	NGC 1514	Tau	Planetary Neb 3+2	*9IN NEB3'DIAM
Dec 25 1984	12.5" 16mm	PB,ML,BRT CENTRAL *,LOC BETWEEN 2B"S.LARGE BALL OF NEBULA,R,MOD HISB		
Oct 09 2010	31" 17mmT4	PB,PL,OVAL,OIII HELPS BRING OUT MORE DETAIL IN NEB,DARK PATCHES IN NEB,R=E		
Oct 09 2010	31" 17mmT4	PB,PL,OVAL,R,C* APPROX 9TH MAG,LARGE NEB,SPRIAL IN STR,DARK INNER RING BROKEN,R=E		
H69-8	NGC 7686	And	Open Cluster 7.0 III 2 p	CL,P,LC,*7...11
Aug 11 1982	12.5" 24mm	MB,PL,B ORANGE * IN CENTER,LOOSE,LITTLE CLUSTERING EFFECT,APPROX 40"S		
Aug 31 1984	12.5" 24mm	SAME		
Sep 10 1980	12.5" 24mm			
H70-1	NGC 5634	Vir	Globular	GCL,VB,CL,R,GBM,RRR
Apr 11 2015	36" 17mmT4	PB,MS,SPEC FOV,BRT FOREGROUND * CLOSE BY,SEVERAL B"S AROUND NUC,MOD HISB MID,RESOLVED CORE,LITTLE OR NO HALO,~TYPE II,R=E		
Jun 11 1983	12.5" 20mm	VB,PL,BNUC,TRI OF B"S AROUND OBJECT,HISB,BM		
H70-2	NGC 4638	Vir	Galaxy S0- sp	F,R,GBM
Jun 04 1981	12.5" 24mm	DIF,MB,PL,BNUC,DIM HALO,PAIR/M60		
Mar 27 1982	12.5" 12mm	MF,PS,ELONG,BNUC,OVAL,VMBM		
H70-4	NGC 5144	UMi	Galaxy SAc? pec	(PLN),CB,S,R,G,SLBM
Apr 14 2004	31" 17mmT4	MF,ML,R,SHISB,PATCHY ARMS DETECTED,R=F		
H70-8	NGC 1582	Per	Open Cluster 9.0 IV 2 p	CL,VL,PRI,LC,ST L

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H70-8	NGC 1582	Per	Open Cluster 9.0 IV 2 p	CL,VL,PRI,LC,ST L
Aug 10 2002	12.5" 25mm	EL,VB,30-40*S,LOOSLY SCATTERED,MAG 7-9		
H71-1	NGC 5812	Lib	Galaxy E0	CB,S,R,SVMBM
May 02 1981	12.5" 16mm	VB,VS,BNUC		
H71-2	NGC 4660	Vir	Galaxy E:	VB,S,VSVMBMN
Jun 04 1981	12.5" 24mm	PF,PS,DNUC,DIM HALO,PAIR/M59		
H71-8	NGC 2281	Aur	Open Cluster 8.0 I 3 m	CL,PRI,VLC,ST PL
Oct 16 1982	12.5" 24mm	MB,VL,APPROX 30*S,STANDS OUT WELL,HOUR GLASS SHAPE,LOOSE		
H72-1	NGC 3254	LMi	Galaxy SA(s)bc	CB,L,ME45,PSMBMN
Dec 03 1980	12.5" 24mm	DIF,MB,PL,ELONG,BNUC,F*SW SEVERAL GAL DIA,GMBM,TAPPERED,KNTY STR SUSP,DIF HALO		
Feb 25 1982	12.5" 16mm			
H72-3	NGC 5249	Boo	Galaxy S0?	VF,S,R,BM
May 14 2010	31" 17mmT4	MF,PS,OVAL,SMALL BNUC,PAIR=MAC,R=F		
H72-4	NGC 6888	Cyg	Nebula E	F,VL,VME,**ATT
Sep 04 2002	12.5" 25mm	PB,PL,BRT NEBULA,2B*S WITH GLOW OF NEB BETWEEN AND AROUND *S		
Sep 04 2002	12.5" 32mm	NEB EASILY DETECTED		
Sep 19 2012	36" 31mmT5	VB,W/OIII,WELL PLACED IN FOV,2 DISTINCT HALVES,ONE BRT THAN OTHER,LARGE LOBS,EXCELLENT DETAIL,AMAZING,R=EE		
H72-8	NGC 6633	Oph	Open Cluster 8.0 III 2 m	CL,LC,ST L
Jun 04 1981	12.5" 32mm	EB,EL		
H73-1	NGC 4150	Com	Galaxy SA(r)0^?	B,S,R,PGMBM
Feb 27 1982	12.5" 16mm	MF,MS,BNUC,GMBM,R		
H73-3	NGC 6021	Ser	Galaxy E+	EF,VS,LE,F OF 2
Jun 01 2008	31" 17mmT4	MB,MS,R,LBNUC,HISB MIDDLE,PAIR=6018,R=G		
H73-4	NGC 6826	Cyg	Planetary Neb 3a+2	PLN,B,PL,R,*11M
Jul 24 1981	12.5" 16mm	GREENISH,BLINKING PLANTARY,CENT * EASILY BLINKS WHEN LOOKING AT CENTER		
Jul 24 1981	12.5" 7mm	CENTRAL * NO LONGER BLINKS		
Jun 17 1980	12.5" 16mm	GREAT,GREENISH BLUE COLOR,USE BARLOW AND 16MM		
Jun 20 1980	12.5" 9mm	BRT CENTRAL * EASILY SEEN		
Sep 02 2008	31" 17mmT4	VB,VL,R,GREENISH TECTURE BRT BALL,C* VERY BRT 10TH MAG,OIII NOT MUCH HELP,R=E		
H74-1	NGC 4245	Com	Galaxy SB(r)0/a:	CB,PL,VLE,SMBM,R
Feb 27 1982	12.5" 16mm	MB,ML,BNUC,R,SMALL NUC		
H74-4	NGC 7023	Cep	Nebula R	*7IN EF,EL,NEBY
Jul 09 1983	12.5" 12mm	DIF,MB,MS,GAS AROUND B*,SOME DETAIL IN GAS DET		
Sep 12 2012	36" 17mmT4	PB,VL,3*S WITH NEB,FINE DETAIL IN WISP OF NEB,GREENISH,OIII NO HELP,PATCHES,DRK AREAS,PAIR=CR 427,R=G		
H74-8	NGC 7031	Cyg	Open Cluster 11.3 III 2 m	CL OF TRIP ST,LC
Sep 04 2002	12.5" 32mm	PB,PL,FEW B*S WITH MANY F*S,ELONG IN SHAPE		
H75-1	NGC 4274	Com	Galaxy (R)SB(r)ab	VB,VL,E90,MBMN
Feb 12 1983	12.5" 24mm	MB,PL,ELONG,BNUC,TAPPERED ENDS,PAIR/4278/4283		
Feb 27 1982	12.5" 16mm	MB,VL,ELONG,BNUC,FAINT HALO,SMALL NUC,DIF HALO AROUND NUC		
H75-2	NGC 4762	Vir	Galaxy SB(r)0^? sp	PB,VME31,3B*S,F OF 2
Feb 12 1983	12.5" 16mm	MB,MS,3B*S OFF TO A SIDE,APPEARS LIKE M104,PAIR/4754		
H75-4	NGC 7129	Cep	Nebula IV 2 p n	CF,PL,GBM***
Aug 11 1982	12.5" 24mm	MF,PS,R-OVAL,4*S ON OUTSIDE EDGE,1F* IN CENTER OF OBJECT,SAME FOV AS 7142		
Jun 20 2004	31" 17mmT4	PB,PL,LOOSLY SCATTERED,APPROX 10 *S,PAIR=7133,R=F		
Sep 12 2012	36" 17mmT4	MB,ML,15*S LITTLE CLUSTERING,VAR MAG,SCATTERED,PAIR=7133,R=P		
H75-8	NGC 7243	Lac	Open Cluster 8.0 II 2 m	CL,L,P,LC,ST VL

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H75-8	NGC 7243	Lac	Open Cluster 8.0 II 2 m	CL,L,P,LC,ST VL
Jul 15 1980	12.5" 24mm	CLUSTER WELL PLACED		
Sep 20 1984	12.5" 24mm	VB,VL,RICH * FIELD,PPEARS TO BE 2 CLUSTERS SIDE BY SIDE,APPROX 40"S		
H76-1	NGC 4314	Com	Galaxy SB(rs)a	CB,L,E150,SBM,*NP
Feb 12 1983	12.5" 24mm	PB,ML,EDGE ON,BNUC,F*N TIP,BM,TAPPERED		
H76-2	NGC 5970	Ser	Galaxy SB(r)c	PF,PL,R,RR
Jun 01 2008	31" 17mmT4	VB,VL,ELONG,OVAL,LBNUC,HISB,MBM,BRT BAR ACCROSS NUC,PAIR=PGC55664,R=G		
May 31 1981	12.5" 16mm	DIF,MB,PS,FAINT HALO		
H76-4	NGC 6946	Cep	Galaxy SAB(rs)cd	VF,VL,VG,VSBM,RR
Aug 14 1982	12.5" 16mm	EDIF,MF,PL,PATCHY,OVAL,NND,STARS IN GAL,SEE CARD FOR DRAWING		
Aug 19 1980	12.5" 32mm	VF,COULD NOT FIND IN 24MM		
Jul 09 1983	12.5" 24mm	MF,VL,OVAL,3B"S TO ONE SIDE,SEVERAL F"S IN GAL,SPR STR SUSP,PAIR/6939		
Jun 06 1981	12.5" 16mm	DIF,VL,MB,SOME SPR STR DET,FACE ON,SEVEAL "S IN GAL,RESEMBLES M33		
Jun 22 2003	12.5" 9mmT6	VB,EL,R,NND,SHISB,AREAS OF PATCHES DET,SEVERAL "S IN GAL,R=E		
Sep 12 2012	36" 17mmT4	PB,VL,SMALL BNUC,SPIRAL ARMS,KNOTS IN ARMS DET,H2 REGIONS DET,R=E		
H76-8	NGC 6991	Cyg	Open Cluster 5.7 III 2 n	CL,L,P,VLC
Sep 04 2002	12.5" 32mm	VB,EL,APROX 50"S,*S SIMILAR IN BRIGHTNESS,RICH * FIELD		
H77-1	NGC 4414	Com	Galaxy SA(rs)c?	VB,L,E,G,VSBM*
Feb 12 1983	12.5" 16mm	VB,ML,BNUC,BM,DIF HALO,SLIGHTLY ELONG,NO "S ON EDGE LIKE PHOTO		
H77-2	NGC 3338	Leo	Galaxy SA(s)c	F,CL,E,VGBM,*7P10S
Dec 03 1980	12.5" 24mm			
Feb 25 1984	12.5" 12mm	DIF,MF,PL,B* CLOSE BY,FACE ON,UB,R		
Jan 30 1981	12.5" 24mm	DIF,PB,VL,DIM HALO,PAIR/3346		
H77-4	NGC 1325	Eri	Galaxy SA(s)bc	F,ME239,COM,*9.5ATT
Oct 24 1981	12.5" 12mm	DIF,MF,PS,ELONG,B*W EDGE,NND,UB,F* TO S		
Oct 31 1980	12.5" 24mm	PAIR/1332		
H77-8	NGC 7380	Cep	Open Cluster 10.0 III 2 m n	CL,PL,PRI,LC,*9...13
Aug 11 1982	12.5" 24mm	MB,PL,50-70"S,FAINT GLOW BETWEEN "S,TRI SHAPE CLUSTER,GRT > 10 ARC MIN		
Jul 09 1983	12.5" 24mm	MB,PL,SAME DEC AS 7261,LARGE TRI SHAPE,LOOSE,SCATTERED,APPROX 50"S		
H78-1	NGC 2985	UMa	Galaxy (R')SA(rs)ab	VB,CL,R,PSMBM,*INV F
Apr 14 2004	31" 17mmT4	VB,PL,R,LARGE BNUC,MOD HISB,HISB MIDDLE,R=E		
Aug 22 1980	12.5" 24mm			
Dec 03 1980	12.5" 24mm	F* IN ARM REGION		
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,F*E SIDE,R,VMBM		
H78-2	NGC 3367	Leo	Galaxy SB(rs)c	PB,CL,IR,VGLBM,R,1-3
Feb 25 1984	12.5" 12mm	VDIF,MF,PS,PATCH,UB,2F"S TO W,NND		
Jan 30 1981	12.5" 24mm	DIF,PF,VL,FAINT HALO,PAIR/3377		
H78-4	NGC 4750	Dra	Galaxy (R)SA(rs)ab	PB,L,R,VG,VSBM
Feb 23 2006	31" 17mmT4	PB,PL,R,SMALL BNUC,HISB,SUDDENLY MBM,DARK PATCHES,FARMS,F HALO AROUND NUC,R=E		
H78-8	NGC 225	Cas	Open Cluster 9.3 III 1 p n	CL,L,LC,*9...10
Aug 13 1982	12.5" 24mm	MB,PL,18-21 "S,SPREADS OUT WELL,"S APPROX SAME MAGNITUDE		
Sep 28 2013	36" 17mmT4	PB,EL,~15"S,LOOSLY SCATTERED,SIM MAG,DOESNOT STAND OUT WELL,R=PF		
H79-1	NGC 3147	Dra	Galaxy SA(rs)bc	VB,L,R,VGVSBM
Apr 23 2003	12.5" 9mmT6	VB,VL,OVAL,BNUC,MHISB,ARMS SUSP,BRT AREAS IN HALO,GMBM,R=E		
Oct 22 1982	12.5" 16mm	MB,ML,BNUC,INSIDE 4"S,R,SMBM,SMALL BRT NUC		
H79-2	NGC 5669	Boo	Galaxy SAB(rs)cd	F,L,R,LBM,R
May 06 1981	12.5" 24mm	DIF,MB,ML,DIM HALO		

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H79-2	NGC 5669	Boo	Galaxy SAB(rs)cd	F,L,R,LBM,R
May 06 1981	12.5" 24mm	DIF,MB,ML,DIM HALO		
H79-4	NGC 3034	UMa M82	Galaxy I0 sp	VB,VL,VME(RAY)
Apr 14 2004	31" 17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BROKEN PARTS,R=E		
Aug 22 1980	12.5" 24mm			
Dec 03 1980	12.5" 24mm			
Feb 04 2005	31" 17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BROKEN,BEST TO DATE,R=E		
Jan 29 2014	36" 17mmT4	M82,EB,EL,EDGE ON,HISB,PATCHES,NUC REG FRAGMENTED,DUST,DETAIL IN ARMS,SN IN ARM ~ 10.5MAG,R=EE		
Mar 02 1984	10" 20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES		
Mar 08 2013	36" 17mmT4	MESSIER MARATHON 2013		
Mar 15 1985	12.5" 12mm	SAME,IRR		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Oct 22 1982	12.5" 12mm	VB,VL,EDGE ON,VERY HISB,2 DUST LANES DET,BRT REGIONS DET,TAPPERED,KNTY		
Oct 29 1980	8" 24mm			
Oct 31 1980	12.5" 24mm			
Sep 09 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 18 1980	12.5" 24mm			
H79-8	NGC 129	Cas	Open Cluster 11.0 III 2 m	CL,VL,PR,LC,*9...13
Aug 13 1982	12.5" 24mm	MB,BL,SCATTERED,BLENDS WITH FIELD *S		
Sep 28 2013	36" 17mmT4	VF,EL,~40"S,LOOSLY SCATTERED,LITTLE CLUSTERING,FILLS FOV,R=F		
H80-1	NGC 3348	UMa	Galaxy E0	B,S,ILE,PSBM,*11F21S
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,DOUBLE NUC,F* NEXT TO STELL NUC,R,BM		
H80-3	NGC 3731	Leo	Galaxy E	VF,VS,R
Mar 16 2010	31" 17mmT4	MF,MS,OVAL,SMALL BNUC,SOMEWHAT HISB MIDDLE,R=F		
H80-8	NGC 1444	Per	Open Cluster 6.8 IV 1 p	CL OF AB30*12...14
Oct 03 1981	12.5" 24mm	MF,VS,SURROUNDS B DOUBLE *,APPROX 10"S,SMALL		
Sep 03 1980	12.5" 24mm	POOR		
H81-1	NGC 3344	LMi	Galaxy (R)SAB(r)bc	CB,L,GBM,*INV,2ST F
Dec 03 1980	12.5" 24mm	BNUC,2F*S ON EDGE		
H81-2	NGC 3370	Leo	Galaxy SA(s)c	CB,PL,VLE,GBM,R
Feb 25 1984	12.5" 16mm	DIF,MF,MS,PATCHY,UB,NND		
Jan 30 1981	12.5" 24mm	DIF,PF,PS,FAINT HALO		
H81-3	NGC 3773	Leo	Galaxy S0	CF,CS,R,PSBM
Mar 03 1984	12.5" 12mm	VF,ES,STELL WITH FAINT GLOW,NOT SURE OF FIND		
H81-8	NGC 6793	Vul	Open Cluster III 2 p	CL,P,LC
Sep 04 2002	12.5" 24mm	PB,PL,LOOSELY SCATTERED,*S APPROX SAME MAG		
H82-1	NGC 3900	Leo	Galaxy SA(r)0+	B,PL,VLE0,BMN
Feb 12 1983	12.5" 16mm	MF,ML,DNUC,OVAL,BM,TRI OF *S AROUND GAL		
Jan 30 1981	12.5" 24mm	PF,PL,ELONG,FNUC,FAINT HALO		
Mar 03 1984	12.5" 12mm	MB,PL,ELONG,BNUC,SBM,BETWEEN 2B*S		
H82-2	NGC 3455	Leo	Galaxy (R')SAB(rs)b	PF,S,E,GBM,R,SF OF 2
Jan 29 2014	36" 17mmT4	PB,PL,OVAL,UB,NND,B* BETWEEN PAIR,PAIR=3454,R=FG		
Mar 03 1984	12.5" 12mm	EDIF,EF,MS,F* TO N 1 GAL DIA,PATCHY,NND,UB,OVAL		
H83-1	NGC 4494	Com	Galaxy E1-2	VB,PL,R,VSMBMN

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H83-1	NGC 4494	Com	Galaxy E1-2	VB,PL,R,VSMBMN
Feb 12 1983	12.5" 16mm	VB,VL,BNUC,R,BM		
H83-2	NGC 4152	Com	Galaxy SAB(rs)c	PB,PL,R,PGMBM,R
Feb 27 1982	12.5" 16mm	VDIF,VF,VS,PATCHY,OVAL,SBM		
H83-3	NGC 4880	Vir	Galaxy SA(r)0+:	CF,PL,R,VGLBM,R
Mar 22 2004	12.5" 12mmT4	MF,MS,OVAL,PATCH,LARGE VFNUC,SBM,R=F		
H84-2	NGC 4328	Com	Galaxy SA0-:	F,S,R,R
Mar 08 2010	31" 17mmT4	PF,PS,OVAL,UB,NND,R=F		
H84-8	NGC 1348	Per	Open Cluster 8.5 III 2 m	CL,LRI,ST L
Aug 10 2002	12.5" 25mm	PB,PL,* VARYING IN MAGNITUDE,GROUPED NICELY		
H85-1	NGC 5012	Com	Galaxy SAB(rs)c	PF,CL,E17,BIN,*9F
Mar 22 2004	12.5" 12mmT4	MF,MS,ELONG,PATCH,UB,SHISB,R=F		
H85-2	NGC 4340	Com	Galaxy SB(r)0+	PB,S,R,PSBM
Feb 12 1983	12.5" 24mm	MB,PS,DNUC,SBM,OVAL,PAIR/4350		
H85-3	NGC 5222	Vir	Galaxy E	CF,S,R,BM,2ND OF 3
May 18 2007	31" 17mmT4	MB,MS,OVAL,LBNUC,CLOSE COMP=MAC,SOMEWHAT HISB,F* OFF ONE SIDE,R=G		
H85-8	NGC 1545	Per	Open Cluster 9.0 IV 2 p	CL,PRI,LC,ST L
Oct 03 1981	12.5" 24mm	MB,ML,TRI OF B*S IN CENTER,APPROX 20*S,SPREAD OUT THIN		
Sep 03 1980	12.5" 24mm			
H86-1	NGC 3245	LMi	Galaxy SA(r)0^:?	VB,PL,E0, SMBMEN
Dec 03 1980	12.5" 24mm			
Feb 25 1982	12.5" 16mm	MB,MS,BNUC,TAPPERED,NUC DET,HISB TOWARDS MIDDLE		
Jan 24 2004	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,MOD HISB,GMBM,PAIR=3245A,R=E		
H86-2	NGC 4350	Com	Galaxy SA0 sp	CB,VS,ME,VSBM
Feb 12 1983	12.5" 24mm	MB,PS,BNUC,SBM,OVAL,CLOSE PAIR/4340		
Mar 27 1981	12.5" 24mm			
H86-3	NGC 5221	Vir	Galaxy Sb:	VF,S,VLE,1ST OF 3
May 18 2007	31" 17mmT4	MB,ML,EL,EDGE ON,SFNUC,THICK NUC REGION,R=G		
H87-1	NGC 3486	LMi	Galaxy SAB(r)c	CB,CL,R,GMBM
Dec 03 1980	12.5" 24mm			
Oct 22 1982	12.5" 24mm	MF,MS,VDIF,PATCH,SBM		
H87-2	NGC 4379	Com	Galaxy S0- pec:	PS,R,PSBMN
Mar 22 2004	12.5" 12mmT4	PF,MS,R,LARGE BNUC,SHISB,HISB MIDDLE,GMBM,R=G		
H87-8	NGC 2425	Pup	Open Cluster 14.0 II 1 m	CL,P,S,ST VS
Nov 24 2006	12.5" 12mmT4	MF,MS,APPROX 20*S,SIMILAR MAG,GOOD CLUSTERING,IRR IN SHAPE,R=G		
H88-1	NGC 3504	LMi	Galaxy (R)SAB(s)ab	B,L,E,MBMN,RR,P OF 2
Dec 03 1980	12.5" 24mm			
Oct 22 1982	12.5" 16mm	MB,MS,DNUC,LOC IN BARREN AREA,OVAL,SMBM		
H88-8	NGC 1342	Per	Open Cluster 8.0 III 2 m	CL,VL,AB60*
Oct 03 1981	12.5" 24mm	VB,VL,APPROX 20*S,DISPURSED		
Sep 03 1980	12.5" 24mm	NOT SO GOOD,DOES NOT LIVE UP TO ASTRO CARD DESCRIPTION		
H89-1	NGC 4251	Com	Galaxy SB0? sp	VB,S,E,VSMBMN,*F90S
Feb 27 1982	12.5" 16mm	ELONG,BNUC,GMBM		
H90-1	NGC 4278	Com	Galaxy E1-2	VB,PL,R,MBM,R,1STOF3
Feb 12 1983	12.5" 16mm	MB,ML,BNUC,R,VMBM,COMP TO E = 4283		
H91-1	NGC 4448	Com	Galaxy SB(r)ab	B,L,E90,SBM
Feb 12 1983	12.5" 16mm	MF,MS,FNUC,SLIGHTLY ELONG,MOD HISB,SBM		
H92-1	NGC 4559	Com	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F

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H92-1	NGC 4559	Com	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Feb 12 1983	12.5" 24mm	VB,VL,3F*S IN S EDGE,SLIGHTLY ELONG,HISB,NND		
H93-1	NGC 4793	Com	Galaxy SAB(rs)c	PB,PS,LE,*8NF1'
May 17 2009	31" 17mmT4	PF,PL,ELONG,SMALL BNUC,HISB,COMP=MAC,AGC1656,R=E		
H94-1	NGC 3813	UMa	Galaxy SA(rs)b:	CB,PL,PME90,BM
Feb 12 1983	12.5" 16mm	MF,PS,ELONG,F*E TIP,UB,NND,VF*W TIP SUSP		
Mar 15 1985	12.5" 16mm	PF,PS,ELONG,EDGE ON,E-W,F*S AT BOTH TIPS,UB,NND,TAPERED ENDS		
H94-3	NGC 4343	Vir	Galaxy SA(rs)b:	PF,S,E,(D)
Apr 26 2003	12.5" 9mmT6	MB,ML,OVAL,SOMEWHAT HISB,LARGE BRT CENTRAL AREA,R=G		
H95-1	NGC 4214	CVn	Galaxy IBm	CB,CL,IE,BIN
Jan 26 1982	12.5" 16mm	PB,PL,ELONG,2F*S OFF TO NE,1*(14MAG)N 1 GAL DIA,VERY HISB ALONG EQ,OVAL		
Jul 05 1980	12.5" 24mm			
H96-1	NGC 5005	CVn	Galaxy SAB(rs)bc	VB,VL,VME66,VSBMN
Jan 28 1982	12.5" 16mm	MB,ML,BNUC,SLENDER SHAPE,DIF HALO		
H96-2	NGC 5962	Ser	Galaxy SA(r)c	PF,PL,ILE,GBM
May 31 1981	12.5" 16mm	DIF,PB,MS,FAINT HALO		
H96-3	NGC 4342	Vir	Galaxy S0- sp	EF,VS,R
Apr 25 1981	12.5" 24mm	DIF,EF,PS,FARM,PAIR/4365		
H97-1	NGC 5033	CVn	Galaxy SA(s)c	VB,PL,E167,SMBMVBN
Jan 28 1982	12.5" 16mm	PF,PS,BNUC,F* IN NW TIP,MUCH BM		
H97-2	NGC 5996	Ser	Galaxy S?	PF,CS,R,R,BET 2D*
Apr 06 2008	31" 17mmT4	MB,MS,OVAL,SMALL BNUC,BAR LIKE NUC,PAIR=5994,R=G		
Apr 26 2006	31" 17mmT4	MF,MS,OVAL,SMALL FNUC,SMALL COMPACT NUC,BAR DET,F ARMS FROM END OF BAR,R=G		
H97-3	NGC 4366	Vir	Galaxy E	EF
Mar 08 2010	31" 17mmT4	MF,MS,ELONG,UB,NND,PAIR=4370,R=F		
H98-1	NGC 5273	CVn	Galaxy SA(s)0^	CB,PL,R,G,PSMBM
Jan 28 1982	12.5" 16mm	DIF,MF,MS,R,SMALL DIM NUC,DIF HALO,PAIR/5276		
H98-2	NGC 3041	Leo	Galaxy SAB(rs)c	GCL,F,L,R,VGLBM,RR
Feb 25 1984	12.5" 12mm	VDIF,MF,PS,ELONG,UB,NND,F*N EDGE,ANOTHER F*N SIDE SUSP		
Jan 30 1981	12.5" 24mm	DIF,PF,PL,FNUC AND HALO,12 MAG * IN GAL		
H99-1	NGC 5557	Boo	Galaxy E1	CB,S,R,VSBM*
Mar 29 2006	31" 17mmT4	VB,PL,R,LARGE BNUC,HISB,GMBM,VF* IN GAL OUTSIDE NUC,SN? 15 MAG,R=E		
May 06 1981	12.5" 24mm	MB,ML,BNUC WITH DIM HALO		
H99-2	NGC 3377	Leo	Galaxy E5-6	VB,CL,LE,SVMBMBN
Feb 25 1984	12.5" 12mm	MB,PS,PATCHY,UB IN MIDDLE,R		
Jan 30 1981	12.5" 24mm	PB,PL,BNUC,PAIR/3367		
H100-1	NGC 584	Cet	Galaxy E4	VB,PL,R,MBM,P OF 2
Sep 07 1980	12.5" 24mm	PAIR/596,GREAT!!		
Sep 10 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm	MB,PS,BNUC,VMBM,R		
H100-2	NGC 3485	Leo	Galaxy SB(r)b:	F,L,R,GLBM,R
Feb 25 1984	12.5" 12mm	VDIF,VF,MS,ELONG,F* E EDGE,NND,PATCHY		
Jan 30 1981	12.5" 24mm	DIF,EF,PS,EXTREMELY FAINT HALO,PAIR/3489		
H101-1	NGC 779	Cet	Galaxy SAB(r)b	CB,L,ME162,MBM
Sep 07 1980	12.5" 24mm	ELONG		
Sep 18 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm	MB,ML,VERY EDGE ON,FNUC,CENTRAL BULGE,DUST PATCHES,KNTY STR SUSP,GBM		

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H101-1	NGC 779	Cet	Galaxy SAB(r)b	CB,L,ME162,MBM
Sep 27 1981	12.5" 16mm	MB,ML,VERY EDGE ON,FNUC,CENTRAL BULGE,DUST PATCHES,KNTY STR SUSP,GBM		
H101-2	NGC 3489	Leo	Galaxy SAB(rs)0+	VB,PL,LE80,SMBMN
Feb 25 1984	12.5" 12mm	MB,PS,BNUC,F* OFF ON EDGE,BM		
Jan 30 1981	12.5" 24mm	VB,PL,BNUC,PAIR/3485		
H101-3	NGC 5239	Boo	Galaxy SB(rs)bc	VF,PL,R,ER
May 14 2010	31" 17mmT4	PF,MS,OVAL,NND,PATCHY,PATCHY AREAS,ARMS DET,R=F		
H102-1	NGC 1022	Cet	Galaxy (R')SB(s)a	CB,PL,R,MBM,*11NF 2'
Sep 07 1980	12.5" 24mm	FAIR AND FAINT		
Sep 27 1981	12.5" 16mm	MB,ML,NUC SUSP,FARMS,F*W 1 GAL DIA,BAR SUSP,FAINT CIRCULAR ARMS SUSP,SNS		
H102-2	NGC 3596	Leo	Galaxy SAB(rs)c	PF,L,R,GLBM
Jan 30 1981	12.5" 24mm	DIF,PF,PL,DIM OUTER HALO,PAIR/3593		
Mar 03 1984	12.5" 12mm	DIF,MB,PL,FNUC,SMALL FAINT NUC,R,TRI OF *S AROUND OBJECT,SBM		
H102-3	NGC 3833	Vir	Galaxy Sc	EF,PS
May 18 2007	31" 17mmT4	MF,PL,PATCH,UB,NND,VF* OFF ONE EDGE,R=F		
H103-1	NGC 6934	Del	Globular	GCL,B,L,R,RRR,*16...
Aug 20 2003	31" 25mm	VB,VL,RESOLVED TO CORE,HUNDRED'S OF *S,MANY *S DETECTED IN CORE,R=E		
Jul 08 1983	12.5" 12mm	MB,MS,BNUC,B* TO W,RESOLVED OUTER *S,GBM		
Jul 11 1980	12.5" 24mm			
Jul 30 1981	12.5" 16mm	DNUC,GMBM,SOFT HALO OF *S RESOLVED,R		
Jul 31 2002	12.5" 12mm	SAME		
Jun 17 1980	12.5" 24mm			
Jun 18 1980	12.5" 24mm			
Jun 20 1980	12.5" 24mm			
H103-2	NGC 3800	Leo	Galaxy SAB(rs)b: pec	F,PS,E,PGLBM,R,FOF 2
Mar 29 2006	31" 17mmT4	VB,VL,ELONG,PATCH,UB,NND,HISB,COMP=3799,IRR IN SHAPE,R=E		
H104-1	NGC 7606	Aqr	Galaxy SA(s)b	PF,CL,PME0
Jul 10 1981	12.5" 16mm	BRT PART N SIDE,HALO VIS,RESEMBLES M104,MB,ML,EDGE ON,FAINT ARMS		
Sep 09 1980	12.5" 32mm	BRIGHT,LARGE		
H104-2	NGC 3872	Leo	Galaxy E5	B,S,R,SMBM*
Mar 03 1984	12.5" 12mm	MF,PS,BNUC,R,BM,NO *S		
H105-1	NGC 720	Cet	Galaxy E5	CB,PL,LE,PSMBM
Oct 29 1980	8" 24mm			
Sep 07 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm	MB,MS,BNUC,GBM		
H105-2	NGC 4168	Vir	Galaxy E2	PB,PL,IF,PSBM,R,*INV
Apr 26 2003	12.5" 9mmT6	VB,PL,R,BNUC,VERY HISB,LARGE NUC AREA,R=E		
H106-1	NGC 1309	Eri	Galaxy SA(s)bc:	CB,CL,IR,GBM,*8SP4'
Oct 24 1981	12.5" 12mm	MB,ML,HISB,SBM,CLOSE TO B*		
Oct 31 1980	12.5" 24mm	PAIR/1297		
Sep 09 1980	12.5" 24mm			
H106-2	NGC 4189	Com	Galaxy SAB(rs)cd?	F,L,LE,VGLBM,R
Apr 25 1981	12.5" 24mm	PB,PS,DNUC,2F*S TO W		
H107-1	NGC 1407	Eri	Galaxy E0	VB,L,R,SVMBMN
Oct 24 1981	12.5" 12mm	MB,ML,B NUC,R,PAIR/1400		
Oct 31 1980	12.5" 24mm	PAIR/1400		
Sep 09 1980	12.5" 24mm			

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H107-1	NGC 1407	Eri	Galaxy E0	VB,L,R,SVMBMN
Sep 09 1980	12.5"	24mm		
H108-2	NGC 4212	Com	Galaxy SAc:	B,L,E107,G,SBM,R
Feb 27 1982	12.5"	16mm	DIF,MF,PL,B*S,PATCH-OVAL,NND,UB	
H109-2	NGC 4222	Com	Galaxy Sd: sp	VF,PS,R
Mar 08 2010	31"	17mmT4	MF,ML,EDGE ON,UB,NND,TAPPERED ENDS,R=FG	
H109-3	NGC 3790	Leo	Galaxy S0/a	CF,VS,PME,SBM,1STOF3
Mar 06 2010	31"	17mmT4	MF,PS,ELONG,SBNUC,PAIRS=3801/3802/PGC36189,R=F	
Mar 17 2010	31"	17mmT4	MF,MS,ELONG,SMALL BNUC,SHISB,PAIRS=3801/3801/PGC36189,R=F	
May 14 2010	31"	17mmT4	MF,PS,OVAL,SMALL BNUC,BM,PAIR=PGC36189,R=F	
H110-1	NGC 7723	Aqr	Galaxy SB(r)b	CB,CL,E,GMBM,R
Jul 10 1981	12.5"	16mm	DIF,MBM,FNUC,MB,ML,FAINT ARMS	
Sep 09 1980	12.5"	24mm		
H111-1	NGC 7727	Aqr	Galaxy SAB(s)a pec	PB,PL,IR,MBM
Jul 10 1981	12.5"	16mm	MB,ML,VMBM,DIF HALO AROUND GAL	
Oct 07 2010	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,GRANULAR NUC,HISB MIDDLE,GBM,R=G	
Sep 09 1980	12.5"	24mm	BNUC,SPIRAL ARM STR DET	
H111-2	NGC 4298	Com	Galaxy SA(rs)c	F,L,E,VGBM,P OF 2
Apr 26 2003	12.5"	9mmT6	VB,VL,R,UB,NND,MOD HISB,BRT * ON EDGE,PAIR=4302,R=E	
H112-1	NGC 772	Ari	Galaxy SA(s)b	B,CL,R,GBM,R
Oct 23 1982	12.5"	16mm	SAME	
Oct 29 1980	8"	24mm		
Oct 31 1980	12.5"	24mm		
Sep 07 1980	12.5"	24mm	NICE!!,VL,PF,SIMILAR TO M33	
Sep 10 1980	12.5"	24mm		
Sep 24 1981	12.5"	16mm	PB,PL,SMBM,ELONG,* E SIDE,FAINT 15TH MAG COMP W/770 1 GAL DIA,BNUC,FARMS	
H112-2	NGC 4302	Com	Galaxy Sc	L,VME177,F OF 2
Apr 26 2003	12.5"	9mmT6	PB,PL,EDGE ON,PATCH,UB,NND,SOMEWHAT HISB,PAIR=4298,R=E	
H113-1	NGC 2832	Lyn	Galaxy E+2:	F,VS,R,3RD OF 3
Dec 07 2005	31"	17mmT4	VB,PL,R,LARGE BNUC,HISB,VERY CLOSE COMP,PAIRS=2831/2830,EXCELLENT PAIRS,R=E	
Dec 26 2003	31"	17mmT4	VB,VL,R,LARGE BNUC,MOD HISB,INTERACTING=2831,FACE ON,ARMS DET,PATCHY AREAS,R=G	
Mar 17 2009	31"	17mmT4	PB,PL,R,LARGE BNUC,MHISB,HISB MIDDLE,SMBM,INTER=2831,TOUCHING=2830,AGC,R=E	
H113-2	NGC 4419	Com	Galaxy SB(s)a sp	B,PME135,SBM
Feb 12 1983	12.5"	16mm	MB,PS,EDGE ON,FNUC,SBM,TAPPERED	
Mar 27 1981	12.5"	24mm		
H114-1	NGC 2964	Leo	Galaxy SAB(r)bc:	B,VL,LE,VGBM,SP OF 3
Dec 03 1980	12.5"	24mm		
Feb 25 1984	12.5"	12mm	DIF,MF,MS,PATCHY,OVAL,SBM,NO **S,PAIR/2968	
Jan 29 2014	36"	17mmT4	VB,VL,OVAL,BNUC,HISB,DUST,ARMS DET,PATCHY AREAS,R=E	
Jan 30 1981	12.5"	24mm	DIF,VF,VS,FAINT NUC AND HALO	
H114-2	NGC 4473	Com	Galaxy E5	PB
Feb 12 1983	12.5"	16mm	MF,PS,DNUC,R,BM,PAIR/4477	
Jun 10 1980	6"	24mm		
Mar 16 2010	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,HISB MIDDLE,GRANULAR HALO,GMBM,R=E	
Mar 27 1981	12.5"	24mm		
May 01 1981	12.5"	24mm	PB,PL,BNUC,FARM,PAIR/4461	
H115-1	NGC 3021	LMi	Galaxy SA(rs)bc:	PB,PS,VLE,MBM,*10SP

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H115-1	NGC 3021	LMi	Galaxy SA(rs)bc:	PB,PS,VLE,MBM,*10SP
Dec 03 1980	12.5"	24mm		
Dec 20 2003	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,SHISB,F* ON EDGE,HISB MIDDLE,R=F	
Feb 25 1982	12.5"	16mm	MF,PS,B* OFF E SIDE,HISB,STELL NUC SUSP,R,PAIR/3003	
H115-2	NGC 4477	Com	Galaxy SB(s)0?:	PB,CL
Feb 12 1983	12.5"	16mm	MF,PS,BNUC,R,BM,CLOSE COMP 4479,PAIR/4473	
Jun 10 1980	6"	24mm		
Mar 16 2010	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,GRAD MBM,HISB MIDDLE,PAIR=4479,R=E	
Mar 27 1981	12.5"	24mm		
H116-1	NGC 3395	LMi	Galaxy SAB(rs)cd pec:	CB,PS,ILE,1ST OF 2
Dec 03 1980	12.5"	24mm	PAIR/3396	
Feb 15 2004	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,GMBM,INTERACTING 3396,R=E	
Jan 08 2003	12.5"	9mmT6	MB,PL,BNUC,OVAL,SMALL BRT NUC,HISB,COMP=3396	
Oct 22 1982	12.5"	24mm	DIF,VF,MS,ELONG,2 PARTS OR INTERACTING GAL,N PART STELL NUC OR *	
H116-2	NGC 4479	Com	Galaxy SB(s)0^?:	PB,PL
Feb 12 1983	12.5"	16mm	VDIF,VF,MS,ELONG,UB,NND,CLOSE COMP 4477	
Mar 16 2010	31"	17mmT4	MB,MS,OVAL,LARGE FNUC,PAIR=4477,R=F	
H116-3	NGC 5885	Lib	Galaxy SAB(r)c	F,CL,R,VGBM
May 02 1981	12.5"	16mm	DIF,PF,EL,FAINT HALO,10TH MAG * IN GAL	
H117-1	NGC 3396	LMi	Galaxy IBm pec	PB,PS,ILE,2ND OF 2
Dec 03 1980	12.5"	24mm	PAIR/3395	
Feb 15 2004	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,HISB,GMBM,INTERACTING 3395,R=E	
Jan 08 2003	12.5"	9mmT6	MB,PL,OVAL,HISB,NND,UB,COMP=3395	
H117-3	NGC 5076	Vir	Galaxy SB(rs)0+	VF,CS,R,1ST OF 3
Apr 26 2006	31"	17mmT4	MF,MS,R,BNUC,MOD HISB MIDDLE,PAIRS=5079/5077/MAC,R=G	
H118-1	NGC 3430	LMi	Galaxy SAB(rs)c	PB,L,IE,GBM,2ND OF 3
Jan 08 2003	12.5"	9mmT6	PB,PL,OVAL,HISB,UB,NND,PAIR/3424/3413	
H118-3	NGC 5079	Vir	Galaxy SB(rs)bc pec:	CF,PS,VLE,3RD OF 3
Apr 26 2006	31"	17mmT4	DIF,PF,PL,OVAL,PATCH,UB,NND,PAIRS=5077/5076/MAC,R=G	
H120-1	NGC 3887	Crt	Galaxy SB(r)bc	PB,L,IR,VGPMBM
Apr 26 2006	31"	17mmT4	MB,VL,OVAL.LARGE FNUC,PATCHY AREAS,DARK AREAS,MINATURE M33,R=E	
H120-2	NGC 4548	Com M91	Galaxy SB(rs)b	B,L,LE,LBM
Apr 11 2015	36"	17mmT4	PB,PL,S SOFT GRAD BM,FT HALO,BRTER PATCH-BAR DET,R=G	
Feb 12 1983	12.5"	24mm	MB,PL,BNUC,R,LARGE NUC,DIF HALO	
Jun 10 1980	6"	24mm		
Mar 02 1984	10"	20mm	SAME	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
May 09 2010	31"	17mmT4	EB,EL,SBNUC,BRT BAR ACROSS NUC,SUDDENLY MBM,HISB MIDDLE,FT HALO ARMS,VF OUTTER LOOP ONE SIDE,R=E	
H120-3	NGC 5605	Lib	Galaxy (R')SAB(rs)c p:	VF,PL,R,VGBM
May 02 1981	12.5"	16mm	DIF,VF,PL,DIM HALO	
H121-1	NGC 4030	Vir	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR
Apr 25 1981	12.5"	24mm	VB,VL,BNUC,BRT HALO	
H121-3	NGC 5595	Lib	Galaxy SAB(rs)c	F,PL,R,VGBM,P OF 2
May 02 1981	12.5"	16mm	DIF,PF,PL,ELONG,FNUC,PAIR/5597	
H122-1	NGC 1637	Eri	Galaxy SAB(rs)c	CB,L,R,VGBM
Oct 30 1981	12.5"	12mm	MB,PL,F*NE EDGE,SPR STR SUSP,STELL NUC,R,FACE ON	

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H122-1	NGC 1637	Eri	Galaxy SAB(rs)c	CB,L,R,VGBM
Oct 30 1981	12.5" 12mm	MB,PL,F*NE EDGE,SPR STR SUSP,STELL NUC,R,FACE ON		
Oct 31 1980	12.5" 24mm	LARGE,FAINT		
H122-2	NGC 4461	Vir	Galaxy SB(s)0+:	PF,S,R,BM,F OF 2
Mar 27 1981	12.5" 24mm			
May 01 1981	12.5" 24mm	DIF,PF,PS,FNUC,FARM,PAIR/4473		
H122-3	NGC 5597	Lib	Galaxy SAB(s)cd	VF,L,VLE,VGLBM,F OF2
May 02 1981	12.5" 16mm	DIF,VF,PS,FAINT HALO,PAIR/5595		
H123-1	NGC 4378	Vir	Galaxy (R)SA(s)a	B,S,*8,9SF3'
Apr 25 1981	12.5" 24mm	PF,PS,FNUC		
H123-2	NGC 4476	Vir	Galaxy SA(r)0-:	F,S,R,BM,1ST OF 3
May 01 1981	12.5" 24mm	DIF,EF,PS,FARM,PAIR/M87/4478		
H123-3	NGC 6267	Her	Galaxy SB(r)bc	VF,PL,R,LBM
Mar 27 1982	12.5" 16mm	DIF,VF,MS,B*NW EDGE,MOD HISB,NND,OVAL		
H124-1	NGC 4580	Vir	Galaxy SAB(rs)a pec	PB,L,VGBM
Jun 04 1981	12.5" 24mm	DIF,PF,VL,DIM HALO		
H124-2	NGC 4478	Vir	Galaxy E2	PB,S,R,PSBM,2ND OF 3
May 01 1981	12.5" 24mm	PF,PS,ELONG,FNUC,FARM,PAIR/4476/M87		
H125-1	NGC 4586	Vir	Galaxy SA(s)a: sp	PB,L,E,PSBM
Jun 04 1981	12.5" 24mm	DIF,PF,PL,ELONG,FAINT HALO		
H125-2	NGC 4639	Vir	Galaxy SAB(rs)bc	PB,S,E,R,*12SF1'
Mar 27 1982	12.5" 12mm	DIF,MB,PS,CLOSE TO 4654,R,SBM,F*N EDGE		
H126-1	NGC 5746	Vir	Galaxy SAB(rs)b? sp	B,L,VME170,BMBN
Jun 11 1983	12.5" 20mm	MB,PL,EDGE ON,DUST LANE SUSP,BRT NUC BULGE,TAPPERED ENDS,MINATURE 4565		
H126-2	NGC 4654	Vir	Galaxy SAB(rs)cd	F,VL,PME,(D),3*NR
Mar 27 1982	12.5" 12mm	DIF,MB,PL,2F*S TO N,B* TO W,STELL NUC,OVAL,UB,MOD HISB		
H126-3	NGC 5642	Boo	Galaxy E	CF,S,*INV,*12NF
Mar 26 2006	31" 17mmT4	PB,MS,OVAL,LARGE BNUC,HISB,* IN EDGE,PAIR=PGC51748,R=G		
H127-1	NGC 5813	Vir	Galaxy E1-2	B,PS,R,PSMBM
Mar 19 2004	12.5" 12mmT4	PF,MS,OVAL,SMALL FNUC,SBM,PAIR=5814,R=F		
H128-1	NGC 5846	Vir	Galaxy E0-1	VB,PL,R,PSBMN,F*INVS
Jun 11 1983	12.5" 20mm	MB,PL,FNUC,F*W 1 GAL DIA,COMP TO E,R,SBM,SEVERAL FIELD *S		
Mar 16 2010	31" 17mmT4	VB,VL,LARGE BNUC,GRAD BM,GRANULAR HALO,F* OFF SIDE,VERY CLOSE COMP=5846A,R=G		
Mar 19 2004	12.5" 12mmT4	MB,ML,ELONG,NND,SHISB,R=G		
Mar 19 2004	12.5" 12mmT4	MB,ML,OVAL,LARGE BNUC,SHISB,CLOSE COMP=5846A,R=G		
H128-2	NGC 4689	Com	Galaxy SA(rs)bc	PB,VL,E,VGLBM,R
Mar 27 1982	12.5" 12mm	EDIF,MF,PL,R,2F*S N,NND,UB,SOME STR SUSP		
H129-1	NGC 4699	Vir	Galaxy SAB(rs)b	VB,R,VMBMRN,R
Mar 27 1982	12.5" 12mm	MB,MS,BNUC,R,SBM,F*S SEVERAL GAL DIA		
H129-2	NGC 5020	Vir	Galaxy SAB(rs)bc	CF,CL,VLE,LBM
Mar 22 2004	12.5" 12mmT4	VF,ML,OVAL,R,VERY FAINT SMALL NUC OR * NUC,R=F		
H130-1	NGC 4958	Vir	Galaxy SB(r)0? sp	VB,PS,E,BMBN
Feb 12 1983	12.5" 16mm	MF,PS,BNUC,F* OFF TO W,TAPPERED,SBM		
H130-2	NGC 5936	Ser	Galaxy SB(rs)b	F,PL,IR,VGBM,R
May 31 1981	12.5" 16mm	DIF,MF,MS,DIM HALO		
H131-1	NGC 3672	Crt	Galaxy SA(s)c	PB,L,E0,GBM
Apr 26 2006	31" 17mmT4	MB,PL,OVAL,PATCH,UB,SOMEWHAT PATCHY IN MIDDLE,MOD HISB,ONESIDE		

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H131-1	NGC 3672	Crt	Galaxy SA(s)c	PB,L,E0,GBM
Apr 26 2006	31"	17mmT4	MB,PL,OVAL,PATCH,UB,SOMEWHAT PATCHY IN MIDDLE,MOD HISB,ONESIDE TAPPERED,R=E	
H132-1	NGC 2855	Hya	Galaxy (R)SA(rs)0/a	PB,PL,R,GMBMN
Mar 29 2006	31"	17mmT4	VB,VL,R,LARGE BNUC,FAINT HALO,SOMEWHAT HISB MIDDLE,R=G	
H133-1	NGC 4742	Vir	Galaxy E4:	PB,VS,VBMN=*11,*10SF
Mar 22 2004	12.5"	12mmT4	MF,PS,R,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,R=G	
H134-1	NGC 4781	Vir	Galaxy SB(rs)d	CB,VL,ME
Feb 12 1983	12.5"	24mm	DIF,MF,ML,3 OR 4 F*S GOING OFF TO THE W,NND,UB,OVAL	
H134-2	NGC 4197	Vir	Galaxy Sd	PF,PME,VGBM
Apr 19 2014	36"	17mmT4	MF,ML,EDGE ON,NND,TAPPERED/SHARP ENDS,SOMEWHAT HISB,R=FG	
H134-3	NGC 5523	Boo	Galaxy SA(s)cd:	F,PL,PME90,*10NP
May 06 1981	12.5"	24mm	DIF,VF,ML,EDGE ON,FAINT HALO	
H135-1	NGC 4782	Crv	Galaxy E0 pec	PF,PS,R,MBM,P OFDNEB
Apr 06 2008	31"	17mmT4	VB,VL,R,PATCH,LG BNUC,HISB,FAINT NEB AROUND NUC,GMBM,COMP=4783,VF* BETWEEN,R=E	
May 03 1981	12.5"	16mm	DIF,PF,VS,FAINT HALO,PAIR/4783	
H136-1	NGC 4783	Crv	Galaxy E0 pec	PF,PS,R,MBM,F OFDNEB
Apr 06 2008	31"	17mmT4	VB,VL,R,PATCH,LG BNUC,HISB,FAINT NEB AROUND NUC,GMBM,COMP=4783,VF* BETWEEN,R=E	
May 03 1981	12.5"	16mm	DIF,PF,PS,FAINT HALO,12MAG * NEAR OR IN GAL,PAIR/4782	
H136-2	NGC 4224	Vir	Galaxy SA(s)a: sp	PB,PS,LE,GBM,R
Apr 25 1981	12.5"	24mm	DIF,PF,PS,FNUC,F HALO,PAIR/4233/4235	
H137-1	NGC 2859	LMi	Galaxy (R)SB(r)0+	VB,PL,R,SMBM
Dec 03 1980	12.5"	24mm		
Feb 25 1984	12.5"	16mm	MB,ML,BNUC,DIM HALO,STELL BRT NUC,R,GMBM,F*NE SEVERAL GAL DIA	
H138-1	NGC 5061	Hya	Galaxy E0	VB,S,R,VSMBM,*10F
Apr 26 2006	31"	17mmT4	VB,ML,R,LARGE BNUC,HISB,GMBM,BM,PAIR=MAC,R=E	
H138-2	NGC 4260	Vir	Galaxy SB(s)a	PB,E,PSBM
Apr 25 1981	12.5"	24mm	DIF,PF,PS,FNUC,DIM HALO,PAIR/4261	
Mar 08 2010	31"	17mmT4	MB,ML,ELONG,LARGE FNUC,SOMEWHAT HISB MIDDLE,R=G	
H138-3	NGC 5898	Lib	Galaxy E0	F,S,R,GBM
May 02 1981	12.5"	16mm	PF,PS,FNUC,PAIR/5903	
H139-1	NGC 4303	Vir M61	Galaxy SAB(rs)bc	VB,VL,VSBM*,BIN
Apr 11 2015	36"	17mmT4	PB,VL,FACE ON,SM VB NUC HISB WELL DEFINED,BRT BAR WITH ARMS AT ENDS,* OFF ONE ARM,BRT PATCHES IN ARMS,OUTSTANDING,R=E	
Apr 25 1981	12.5"	24mm	DIF,VB,VL,DNUC,FARM	
Feb 12 1983	12.5"	24mm	PB,VL,STELL NUC,ARMS DET,FACE ON,KNTS DET	
Jun 10 1980	6"	24mm		
Mar 08 2010	31"	17mmT4	PB,PL,SMALL BNUC,MOD HISB MIDDLE,FACE ON,F* IN OUTER ARM,SPIRAL STR DET,DUST,PATCHY AREAS IN ARMS,FAINT BAR DET,R=EE	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
H139-2	NGC 4261	Vir	Galaxy E2-3	PB,PS,R,GBM
Apr 25 1981	12.5"	24mm	DIF,PF,PS,FNUC,DIM HALO,PAIR/4260	
Apr 26 2003	12.5"	9mmT6	VB,PL,R,BNUC,HISB MIDDLE,VMBM,LARGE BRT NUC,PAIR/4264/4257,R=E	
Mar 08 2010	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,GRANULAR HALO,HISB MIDDLE,PAIRS=NGC/PGC'S,R=G	
H139-3	NGC 5903	Lib	Galaxy E2	CF,S,R,GPMBM
May 02 1981	12.5"	16mm	PF,PS,FNUC,PAIR/5898	
H140-2	NGC 4264	Vir	Galaxy SB(rs)0+	F,PS,R,GBM

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H140-2	NGC 4264	Vir	Galaxy SB(rs)0+	F,PS,R,GBM
Apr 26 2003	12.5" 9mmT6	MF,MS,OVAL,PATCH,UB,NND,PAIR/4261/4257,R=F		
Mar 08 2010	31" 17mmT4	MB,ML,R,LARGE FNUC,PARIS=NGC/PGC'S,R=G		
H140-3	NGC 6064	Her	Galaxy Sc	VF,VS,PB*SF,(=6052)
Apr 26 2006	31" 17mmT4	MB,MS,NND,MHISB,INTERACTING=MAC,FUNNY SHAPE,PATCHY,OVAL WITH LOBS,R=G		
Feb 27 1982	12.5" 16mm	EDIF,MF,ES,FNUC,SBM,EF*E EDGE		
H141-3	NGC 6907	Cap	Galaxy SBbc	CF,CL,VLE,VGLBM,3STP
Jul 08 1983	12.5" 16mm	EDIF,PF,MS,F* TO E 1 GAL DIA,UB,NND,OVAL		
Jul 10 1981	12.5" 16mm	DIF,ELONG,S BAR BRT THAN ANY PART OF GAL		
H142-1	NGC 4664	Vir	Galaxy SB(s)0/a	PB,2S*IN M,(=4665)
Mar 27 1982	12.5" 12mm	MB,MS,BNUC,F* TOWARDS S TIP,B* TO W,VMBM,OVAL		
H142-3	NGC 6926	Aql	Galaxy SB(s)bc pec	VF,PL,E176,P OF 2
Jun 25 2003	12.5" 9mmT6	MF,VL,ELONG,UB,NND,PAIR=6929,R=G		
H143-1	NGC 4900	Vir	Galaxy SB(rs)c	CB,CE,*10ATT POS135
Feb 12 1983	12.5" 16mm	MB,ML,F* IN E EDGE,MOD HISB,UB,OVAL		
H143-2	NGC 4339	Vir	Galaxy E0	B,PL,R,BM,3RD OF 3
Apr 25 1981	12.5" 24mm	DIF,PF,PS,FNUC		
H143-3	NGC 6717	Sgr	Globular	F,S,RR,CL+NEB
Sep 04 2002	12.5" 9mmT6	PB,ML,B* CLOSE BY,VF* IN EDGE OF GAL,HISB,2 HALVES OR PARTS DETECTED		
H144-1	NGC 5566	Vir	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
Apr 26 2003	12.5" 9mmT6	VB,PL,R,BNUC,VERY HISB,ARMS DET,LARGE NUC,VMBM,PAIR/5560/5569,R=E		
Jun 11 1983	12.5" 20mm	MB,PL,ELONG,BNUC,B*SW 1 GAL DIS.LARGE BRT NUC,HISB TOWARDS MID,PAIR/5576		
H144-2	NGC 4370	Vir	Galaxy Sa sp	PF,PS,LE,BM
Mar 08 2010	31" 17mmT4	MB,ML,OVAL,R,UB,NND,SHISB,PAIR=4366,R=F		
H144-3	NGC 6857	Cyg	Nebula III	F,AM MILKY WAY ST
Jul 24 1981	12.5" 12mm	DIF,3 OR 4 F*S IN NEB,PATCHY		
H145-3	NGC 7052	Vul	Galaxy E	F,S,VLE,R
Jun 27 2003	12.5" 9mmT6	BP,PL,ELONG,FNUC,SHISB,F*S EDGE OF GAL,CENTRAL REGION BRTER,R=G		
Sep 14 2012	36" 17mmT4	MB,ML,OVAL,LARGE BNUC,VF* IN EDGE,HISB MIDDLE,OVAL HALO AROUND NUC,R=G		
H146-1	NGC 5576	Vir	Galaxy E3	B,S,R,VSMBM,F OF 2
Jun 11 1983	12.5" 20mm	PB,ML,BNUC,CLOSE COMP TO W 1 GAL DIA,F*N 1 GAL DIA,R-OVAL,SMBM,PAIR/5566		
H146-3	NGC 7720	Peg	Galaxy E+ pec:	F,S,LE,BM,AM ST
Sep 25 2003	31" 17mmT4	PB,ML,ELONG,LARGE BNUC,SHISB,2 MAC COMP,ABELL 2634,R=G		
H147-1	NGC 6304	Oph	Globular	GCL,B,CL,R,LBM,RRR
Jun 04 1981	12.5" 24mm	DIF,MF,PS		
Jun 18 1980	12.5" 24mm			
H147-2	NGC 4532	Vir	Galaxy IBm	PB,PL,PME,VGBM,R
May 03 1981	12.5" 24mm	PB,PL,ELONG,DARM		
H147-3	NGC 23	Peg	Galaxy SB(s)a	3S*+NEB
Jul 07 1981	12.5" 24mm	DIF,EF,MS,FARMS		
Sep 10 1980	12.5" 24mm			
Sep 12 2002	12.5" 9mmT6	PB,PL,VERY BM,LARGE NUC,F* IN GAL, HISB,PAIR/26		
Sep 21 1984	12.5" 12mm	DIF,VF,MS,ELONG,VF* IN SOUTH ARM,SBM		
H148-1	NGC 5921	Ser	Galaxy SB(r)bc	CB,CL,IR,VSBM*12,AM*
May 31 1981	12.5" 16mm	DIF,MB,ML,ELONG,DNUC,DIM HALO,13* IN GAL		
H148-2	NGC 4612	Vir	Galaxy (R)SAB0^	PB,S,R,PSMBM
Jun 04 1981	12.5" 16mm	PF,PS,BNUC,FAINT HALO,BY 12 MAG *,PAIR/4623		
Jun 04 1981	12.5" 24mm	PB,PL,BNUC,BRT HALO,PAIR/4660		

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H148-2	NGC 4612	Vir	Galaxy (R)SAB0^	PB,S,R,PSMBM
Jun 04 1981	12.5" 24mm	PB,PL,BNUC,BRT HALO,PAIR/4660		
Mar 27 1982	12.5" 12mm	MB,ML,BNUC,F* TO N,VMBM,BRT HALO,OVAL		
H148-3	NGC 108	And	Galaxy (R)SB(r)0+	PF,PL,R,PSLBM
Sep 12 2002	12.5" 9mmT6	PB,PL,OVAL-ROUND,GMBM,FARMS		
H149-1	NGC 6342	Oph	Globular	CB,PS,LE,ER
Jul 21 1984	12.5" 12mm	VF,VS,VF* ON S EDGE,PATCH-UB,NO I'S RESOLVED		
Jun 04 1981	12.5" 24mm	DIF,PF,PS		
Jun 10 1980	6" 24mm	VF,HARD TO SEE		
Jun 18 1980	12.5" 24mm	VS,LOOKS LIKE NEB		
H149-2	NGC 4623	Vir	Galaxy SB0+: sp	CF,PL,E,PSLBM,R
Jun 04 1981	12.5" 24mm	DIF,EF,ES,FAINT HALO,PAIR/4612		
H149-3	NGC 233	And	Galaxy E?	F,VS,R,LBM
Oct 05 2002	12.5" 9mmT6	PB,ML,BNUC,R,MOD HISB		
H150-1	NGC 6440	Sgr	Globular	PB,PL,R,BM
Aug 13 1982	12.5" 16mm	MF,VS,F*N,R,SBM,VF*W,PAIR/6445		
Sep 20 1984	12.5" 12mm	DIF,MF,PS,BETWEEN A LINE OF *S,6440 TO N 1/2 DEGREE,R,BM		
H150-3	NGC 604	Tri	Knot in Galaxy	B,VS,R,VVLBM
Aug 10 2002	12.5" 25mm	VP,PL,BRT NEBULA IN M33,CLOSE TO F*		
Aug 10 2002	12.5" 9mmT6	EB,VL,HISB,PATCH,UB		
H151-1	NGC 524	Psc	Galaxy SA(rs)0+	VB,PL,MBM,4S*NR
Oct 31 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Sep 24 1981	12.5" 16mm	MB,PS,BNUC,F(13TH)*NW EDGE,F*N&S (4*S IN ALL),HISB IN NUC,VR,DIM DIF HALO		
H151-2	NGC 6106	Her	Galaxy SA(s)c	F,PL,LE,VGBM,R
Feb 27 1982	12.5" 16mm	EDIF,VF,MS,NND,PATCHY-OVAL,SOMEWHAT HISB		
H151-3	NGC 807	Tri	Galaxy E	VF,VS,IR,BET2*N\$SP
Oct 25 2006	31" 17mmT4	PB,MS,R,LARGE BNUC,MOD HISB MIDDLE,GMBM,R=G		
H152-1	NGC 821	Ari	Galaxy E6?	PB,VS,VLE,SVMBM,*NP
Oct 22 1982	12.5" 24mm	SAME		
Sep 10 1980	12.5" 24mm			
Sep 24 1981	12.5" 24mm	F*S 3 GAL DIA,11 MAG * N BORDER,HISB,MBM,MF,PS		
H152-3	NGC 1012	Ari	Galaxy S0/a?	F,PS,IR,BM,ST INV
Oct 23 1982	12.5" 16mm	DIF,MF,MS,OVAL,F* IN S PART,12MM: ELONG N TO S,NND,UB,MOD HISB		
H153-1	NGC 908	Cet	Galaxy SA(s)c	CB,VL,E
Sep 09 1980	12.5" 16mm	SIZE EASILY DET		
Sep 27 1981	12.5" 16mm	DIF,HISB,PB,PL,EF* COMES AND GOES W ARM,NND,OVAL,BETTER IN 24MM,KNTS & DUST SUSP		
H153-2	NGC 3822	Vir	Galaxy S0?	PF,PS,3RD OF 4
May 18 2007	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,HISB,R=E		
H154-1	NGC 949	Tri	Galaxy SA(rs)b:?	CB,L,E,VGBM
Aug 25 1982	12.5" 16mm	F*W,FAINTER*S 1 GAL DIA THAT COMES AND GOES		
Sep 18 1980	12.5" 24mm			
Sep 23 1981	12.5" 16mm	DIF,MF,PS,ELONG,F* OFF TO W 1 GAL DIA		
H154-2	NGC 3825	Vir	Galaxy SBa	PF,PS,4TH OF 4
May 18 2007	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,VMBM,HISB,R=E		
H155-1	NGC 1453	Eri	Galaxy E2-3	PB,S,R,*17M
Oct 30 1981	12.5" 12mm	MB,MS,BNUC,SMBM,OVAL,STELL NUC		

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H155-1	NGC 1453	Eri	Galaxy E2-3	PB,S,R,*17M
Oct 30 1981	12.5" 12mm	MB,MS,BNUC,SMBM,OVAL,STELL NUC		
H155-2	NGC 4417	Vir	Galaxy SB0: sp	F,PL,E,LBP
Apr 25 1981	12.5" 24mm	DIF,PF,PL,EDGE ON,FNUC,FARM,PAIR/4424		
H156-1	NGC 1023	Per	Galaxy SB(rs)0-	VB,VL,VME,VVMBM
Aug 17 1982	12.5" 16mm	EDGE ON,MF,ML,LINE OF 3 *S OFF TO E,VMBM,DIF ARMS		
Aug 19 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
Feb 04 2005	31" 17mmT4	VF,EL,ELONG,LARGE BNUC,FARMS,GMBM,SEVERAL *S IN GAL,COMP=1023A,R=E		
Jul 11 1980	12.5" 24mm			
Jul 24 1980	12.5" 24mm	BNUC,GREAT!!!		
Jun 20 1980	12.5" 24mm	GOOD LOOKING GAL		
Oct 03 1981	12.5" 12mm	MB,ML,ELONG,F* OR PART OF GAL W SIDE,LOOKS LIKE SB GAL,VMBM,BRT NUC DET		
Sep 03 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
H156-2	NGC 4442	Vir	Galaxy SB(s)0^	VB,PL,R,SMBM
May 01 1981	12.5" 24mm	PB,PS,BNUC,FARM		
H156-3	NGC 495	Psc	Galaxy (R')SB(s)0/a p:	VF,S,1ST OF3
Sep 04 2002	12.5" 9mmT6	DIF,PF,PS,R,PATCH,AVERTED VISION,LOCATION GOOD,OTHERS PRESENT		
H157-1	NGC 672	Tri	Galaxy SB(s)cd	F,PL,ME80
Aug 22 1980	12.5" 24mm			
Aug 25 1982	12.5" 16mm	SAME		
Dec 04 2004	31" 17mmT4	PB,EL,EDGE ON,SHISB,VF* OFF NUC,BRT BAR THROUGHOUT,DUST & PATCH AREAS DET,R=E		
Jul 24 1980	12.5" 32mm	EL,GREAT!!		
Sep 07 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 18 1980	12.5" 24mm			
Sep 23 1981	12.5" 16mm	DIF,MB,MS,DARM,2*S OPPOSITE SIDE,UB,NND,PAIR/670		
H157-2	NGC 4469	Vir	Galaxy SB(s)0/a? sp	PF,PL,ME,BM,R
May 01 1981	12.5" 24mm	DIF,PF,PL,ELONG,FNUC,DARM,F* 15 MAG		
H157-3	NGC 496	Psc	Galaxy Sbc	VF,VS,2ND OF 3
Sep 04 2002	12.5" 9mmT6	EDIF,EF,PL,OVAL PATCH,NND,UB,OTHERS PRESENT		
H158-1	NGC 1600	Eri	Galaxy E3	PB,PL,R,GMBM
Oct 30 1981	12.5" 12mm	MB,ML,BNUC,FAINT COMP NE 1 GAL DIA,R,GMBM,PAIR/1601		
Oct 31 1980	12.5" 24mm	DIF,UB,RESEMBLES CRAB NEBULA		
Sep 09 1980	12.5" 12mm	RESEMBLES * IN SMALL TRI		
H158-2	NGC 4519	Vir	Galaxy SB(rs)d	F,PL,R,BM,R
May 03 1981	12.5" 24mm	DIF,PF,PL,FARM		
H158-3	NGC 499	Psc	Galaxy S0-	PB,PL,R,3RD OF 3
Sep 04 2002	12.5" 9mmT6	PB,ML,OVAL,GBM,MOD HISB,OTHER GALAXIES PRESENT		
H159-1	NGC 278	Cas	Galaxy SAB(rs)b	CB,PL,R,2*10NR
Aug 19 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	GREAT!!!		
Jul 17 1980	12.5" 24mm			
Jul 24 1980	12.5" 24mm			
Jul 31 1981	12.5" 12mm	GMBM,DIF HALO SEEN,SOMEWHAT OVAL,HISB		

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H159-1	NGC 278	Cas	Galaxy SAB(rs)b	CB,PL,R,2*10NR
Jul 31 1981	12.5"	12mm	GMBM,DIF HALO SEEN,SOMEWHAT OVAL,HISB	
Jun 18 1980	12.5"	24mm		
Sep 18 1980	12.5"	20mm	GREAT	
Sep 28 2013	36"	17mmT4	VB,VL,R,SMALL BNUC,SMBM,MOD HISB,SOME GRANULAR AROUND NUC,NICE FOV,R=GE	
H159-2	NGC 3681	Leo	Galaxy SAB(r)bc	B,PS,R,BM
Jan 30 1981	12.5"	24mm	DIF,PF,PS,DIM HALO,SEVERAL COMP	
Mar 03 1984	12.5"	12mm	DIF,MF,MS,FNUC,OVAL,SBM,FIRST IN A LINE OF OTHERS	
H159-3	NGC 507	Psc	Galaxy SA(r)0⁺	VF,PL,R,BM,S OF 2
Sep 04 2002	12.5"	9mmT6	MB,ML,R,OVAL,GBM,COMP=508	
Sep 12 2012	36"	17mmT4	PB,PL,R,LARGE BNUC,LARGE HALO,HISB MIDDLE,PAIRS=OTHERS,NICE FOV,R=G	
H160-1	NGC 4546	Vir	Galaxy SB(s)0-	VB,CL,PME78,VSMBMN
Feb 12 1983	12.5"	16mm	MB,PS,BNUC,F*E SEVERAL GAL DIA,TAPPED ENDS	
H160-2	NGC 3686	Leo	Galaxy SB(s)bc	PB,L,VLE,VGBM,R
Jan 30 1981	12.5"	24mm	DIF,PF,PL,DIM HALO,SEVERAL COMP	
Mar 03 1984	12.5"	12mm	DIF,MF,ML,F* IN S ARM,BRT * TO N,UB,OVAL,NND,VF*SW SIDE,SEVERAL COMP	
H160-3	NGC 508	Psc	Galaxy E0:	VF,S,N OF 2
Sep 04 2002	12.5"	9mmT6	VDIF,PF,MS,PATCH,UB,COMP=507	
Sep 12 2012	36"	17mmT4	MB,ML,OVAL,SMALL BNUC,HISB MIDDLE,PAIRS=OTHERS,NICE FOV,R=G	
H161-1	NGC 4459	Com	Galaxy SA(r)0⁺	PB,PL,IR,BM,R,*8SF2'
Feb 12 1983	12.5"	16mm	MB,PS,BNUC,SMBM,STELL NUC,CLOSE TO B*	
Jun 10 1980	6"	24mm		
Mar 27 1981	12.5"	24mm		
May 09 2010	31"	17mmT4	EB,VL,R,LBNUC,GRANULAR HALO,SUDDENLY MBM,HISB,R=E	
H161-2	NGC 3801	Leo	Galaxy S0?	PF,PL,R,BM,R,2ND OF3
Mar 06 2010	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,MOD HISB MIDDLE,PAIRS=3802/3790/PGC36189,R=G	
Mar 17 2010	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,CLOSE COMP=3802,PAIRS=3790/PGC36189,R=G	
May 14 2010	31"	17mmT4	M,PL,OVAL.LARGE FNUC,MOD HISB MIDDLE,PAIRS=3802/3803,R=G	
H161-3	NGC 987	Tri	Galaxy SB0/a	F,S,VLE,BM,R,2*14 NP
Dec 19 2006	31"	17mmT4	VB,ML,OVAL,R,LARGE BNUC,F* OFF SIDE,R=G	
H162-1	NGC 4866	Vir	Galaxy SA(r)0⁺: sp	B,PL,ME90,SBMN,S*INV
Feb 12 1983	12.5"	16mm	DIF,MF,PS,EDGE ON,FNUC,F* IN W TIP,SMALL STELL NUC,SLIGHTLY TAPPED	
H162-2	NGC 3968	Leo	Galaxy SAB(rs)bc	PB,L,IR,BM,*10 3'NP
Mar 17 2010	31"	17mmT4	MF,ML,OVAL,SMALL FNUC,SOFT NUC,PATCHY ARMS,SPR STR,PAIRS=PGC37426/3973,R=G	
H162-3	NGC 1060	Tri	Galaxy S0-:	F,PL,R,LBM,*F46S,3'S
Aug 10 2002	12.5"	9mmT6	MF,ML,PATCHY,OVAL,VF* ON EDGE OF GAL,SBM,COMP,1 OF 3	
H163-1	NGC 3115	Sex	Galaxy S0- sp	VB,L,VME46,VGSMBMEN
Mar 27 1982	12.5"	16mm	MB,ML,EDGE ON,BNUC,F HALO,F*S BORDER,F* FARTHER SW,CENTRAL BULGE	
H163-3	NGC 1066	Tri	Galaxy E:	VF,PL,R,LBM,S OF 2
Aug 10 2002	12.5"	9mmT6	PF,ML,BNUC,R,GBM,CLOSE COMP,1 OF 3	
H164-1	NGC 3294	LMi	Galaxy SA(s)c	CB,L,ME135,GLBM
Dec 03 1980	12.5"	24mm		
Feb 15 2004	31"	17mmT4	VB,EL,OVAL,PATCH,UB,NND,PATCHY AREAS DET,KNOTS AND DUST DET,R=E	
Jan 24 2004	31"	17mmT4	VB,VL,ELONG,EDGE ON,PATCH,UB,NND,R=G	
Oct 22 1982	12.5"	16mm	DIF,MF,ML,ELONG,UB,SLIGHTLY ELONG,NND	
H165-1	NGC 4151	CVn	Galaxy (R')SAB(rs)ab:	VB,S,R,VSMBMBN,P OF2
Feb 25 2004	31"	17mmT4	VB,VL,OVAL,SMALL VERY BNUC,2*'S IN ARMS,HISB MIDDLE,GMBM,LARGE AREA OF ARMS,R=E	

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H165-1	NGC 4151	CVn	Galaxy (R')SAB(rs)ab:	VB,S,R,VSMBMBN,P OF2
Jan 26 1982	12.5" 16mm		DIF,MB,PS,BNUC,*NW SIDE,VMBM,R HALO AROUND NUC	
H165-2	NGC 4206	Vir	Galaxy SA(s)bc:	F,VME
Mar 08 2010	31" 17mmT4		MF,PL,EDGE ON,UB,NND,SOME CENTRAL BULGING,PAIR=IC771,R=G	
H166-1	NGC 4369	CVn	Galaxy (R)SA(rs)a	CB,S,R,MBMN,R
Jan 26 1982	12.5" 16mm		DIF,MF,PS,DNUC,*S SEVERAL GAL DIA,R,MBM,NUC DET,DIF HALO AROUND NUC	
H166-2	NGC 4267	Vir	Galaxy SB(s)0-?	PB,VS,R,VSMBM
Apr 25 1981	12.5" 24mm		PF,PS,FNUC,DIM HALO	
H166-3	NGC 7335	Peg	Galaxy SA(rs)0+	VF,VS
Jul 29 1981	12.5" 24mm		DIF,VF,VS,SOMEWHAT ELONG,UB THROUGHOUT GAL,PAIR/7331 AND OTHERS	
Sep 01 2002	12.5" 12mm		VDIF,VF,PS,PATCH-OVAL,UB,CLOSE TO 7331	
Sep 17 2003	31" 25mm		MB,ML,UB,NND,7331 CLUSTER,R=F	
Sep 18 1982	12.5" 16mm		VDIF,VF,VS,OVAL,PATCH,NND	
H167-1	NGC 2782	Lyn	Galaxy SAB(rs)a pec	CB,R,MBMBN
Oct 16 1982	12.5" 24mm		DIF,MF,MS,DNUC,2F*S OFF TO S,SBM,STELL NUC,16MM-SAME	
H167-2	NGC 4387	Vir	Galaxy E	PF,VS,R,*13NP90,NP-2
Mar 08 2010	31" 17mmT4		PB,MS,OVAL,LARGE BNUC,HISB MIDDLE,R=G	
H168-1	NGC 3184	UMa	Galaxy SBc	PB,VL,R,VGBM
Mar 15 1985	12.5" 16mm		SAME	
Oct 22 1982	12.5" 16mm		DIF,MF,ML,R,PATCHY,B* IN N PART,UB,KNTY STR SUSP,NND	
H168-2	NGC 4388	Vir	Galaxy SA(s)b: sp	VF,E,SF OF2
Apr 11 2015	36" 17mmT4		VB,VL,EL-EDGE ON,LFNUC,GBRTER MIDDLE,SOFT NUC,DUST,BROKEN PARTS IN ARMS,R=E	
Apr 25 1981	12.5" 24mm		DIF,PB,EL,EDGE ON,FNUC,DARM,PAIR/M86	
Mar 27 1981	12.5" 24mm			
H169-1	NGC 4145	CVn	Galaxy SAB(rs)d	B,VL,VGLBM
Jan 26 1982	12.5" 24mm		VDIF,NND,PATCHY,UB,SOME *S IN GAL SUSP	
H169-3	NGC 513	And	Galaxy S?	F,S,STELLAR
Aug 10 2002	12.5" 9mmT6		PF,PS,EDGE ON,BNUC,MOD HISB,BM,B* CLOSE BY	
H170-1	NGC 5290	CVn	Galaxy Sbc: sp	CB,PL,E90,BMN
Jan 28 1982	12.5" 16mm		DIF,MF,MS,ELONG,2B*S TO N,MOD HISB,CENTRAL BULGE DET,NND,PAIR/5289	
H170-2	NGC 4425	Vir	Galaxy SB0+: sp	PF,S,R,BM
Apr 25 1981	12.5" 24mm		DIF,PF,PS,EDGE ON,FNUC,FARM	
H170-3	NGC 523	And	Galaxy Pec	DNEB,VF,VS,DIST30"
Aug 10 2002	12.5" 9mmT6		DIF,MF,PL,ELONG,SBM,MOD HISB	
H171-1	NGC 5739	Boo	Galaxy SAB(r)0+:	PB,S,R,SMBM,R,*NR
May 06 1981	12.5" 24mm		DIF,MF,MS,DNUC,FAINT HALO	
H171-3	NGC 536	And	Galaxy SB(r)b	PB,PL,GBM,F OF 2
Dec 20 2003	31" 17mmT4		PF,ML,EDGE ON,SMALL FNUC,MHISB,B* IN GAL,PAIR=531,542,R=G	
H172-1	NGC 3432	LMi	Galaxy SB(s)m sp	PB,PL,VME40,**NR SP
Apr 09 2008	31" 17mmT4		VB,VL,EDGE ON,UB,NND,HISB,2F*S A TIP,2F*S BOTH SIDES,SLIGHTLY BOWED,OTHERS,R=E	
Dec 03 1980	12.5" 24mm			
Oct 22 1982	12.5" 12mm		SAME,2*S AT S TIP	
Oct 22 1982	12.5" 16mm		DIF,MF,MS,ELONG,UB,2*S AT BOTH ENDS	
H173-1	NGC 3941	UMa	Galaxy SB(s)0^	VB,PL,R,SMBM*9
Feb 12 1983	12.5" 16mm		PB,MS,ELONG,VERY BRIGHT NUC,LOOKS LIKE AN E6 GAL	
Mar 15 1985	12.5" 12mm		PB,ML,BNUC,R,BM,HISB	

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H173-1	NGC 3941	UMa	Galaxy SB(s)0[^]	VB,PL,R,SMBM*9
Mar 15 1985	12.5" 12mm	PB,ML,BNUC,R,BM,HISB		
H174-1	NGC 4062	UMa	Galaxy SA(s)c	PB,VL,ME97,VGBM
Apr 26 2003	12.5" 9mmT6	VB,VL,ELONG TO OVAL,UB,VERY HISB,VF* OFF NUC,R=E		
H174-3	NGC 614	Tri	Galaxy S0?	PF,PSBM,STELLAR
Dec 04 2004	31" 17mmT4	PB,MS,SMALL BNUC,BM,PAIR=608,R=G		
H175-1	NGC 4203	Com	Galaxy SAB0-:	VB,S,R,PSMBM
Feb 27 1982	12.5" 16mm	MB,PS,BNUC,R,GBM		
H175-3	NGC 679	And	Galaxy S0-:	F,STELLAR
Oct 31 1980	12.5" 24mm			
H176-1	NGC 4656	CVn	Galaxy SB(s)m pec	PB,L,VME34,SP OF 2
Jan 28 1982	12.5" 16mm	MF,PL,EDGE ON,*S AROUND N TIP,S ARM SLIGHTLY BULKIER AND BIGGER,MOD HISB		
H176-3	NGC 735	Tri	Galaxy Sb	EEF,STELLAR
Dec 04 2004	31" 17mmT4	PB,MS,OVAL,PATCH,UB,* ON EDGE,SOMEWHAT HISB,PAIR=PGC7293,R=G		
H177-2	NGC 5600	Boo	Galaxy Sc pec	PB,PS,GBM
May 06 1981	12.5" 24mm	DIF,MB,PS,NND,BRT HALO		
H177-3	NGC 925	Tri	Galaxy SAB(s)d	CF,CL,E,VGBM,2*13NP
Aug 22 1980	12.5" 24mm			
Aug 25 1982	12.5" 16mm	SAME,2F*S N, 1F* IN SOUTHERN PART		
Jul 24 1980	12.5" 24mm	EDIF,EF		
Sep 10 1980	12.5" 24mm	B*S IN GAL		
Sep 18 1980	12.5" 24mm			
Sep 23 1981	12.5" 16mm	BAR SEEN,2F*S N&S,DIF,MF,PL,KNTY STR SUSP,R,SLIGHTLY BRIGHTER WHERE BAR IS		
H178-1	NGC 4618	CVn	Galaxy SB(rs)m	B,L,E,MBM,CVDBRANCHN
Feb 17 2004	31" 17mmT4	PB,VL,SHISB,IRR,2 HALVES,APP AS 2 GAL SIDE BY SIDE,ONE HALF BRTER,PAIR=4625,R=E		
Jan 28 1982	12.5" 16mm	MF,PL,OVAL-R,COMP TO N (4625),SBM,B* TO S,APPEARS TO BE 2 GAL OR DARK LANE		
Mar 27 1981	12.5" 24mm			
H178-2	NGC 5953	Ser	Galaxy SAa: pec	PB,CS,P OF D NEB
Apr 26 2006	31" 17mmT4	MB,MS,R,SMALL BNUC,F* OFF ONE SIDE,MOD HISB MIDDLE,BM,PAIR=5954,R=G		
May 28 2008	31" 17mmT4	PB,ML,R,LARGE BNUC,GBMB,HISB MIDDLE,F* OFF EDGE,COMP=5954,EXCELLENT PAIR,R=G		
H178-3	NGC 1167	Per	Galaxy SA0-	VF,PL,R,SPMBM
Aug 17 1982	12.5" 16mm	MF,PS,GBM,R		
H179-2	NGC 5954	Ser	Galaxy SAB(rs)cd: pec	PB,CS,F OF D NEB
Apr 26 2006	31" 17mmT4	MF,MS,PATCH,UB,NND,MOD HISB,PAIR=5953,R=G		
May 28 2008	31" 17mmT4	MB,PL,ELONG,PATCH,UB,MHISB,COMP=5953,EXCELLENT PAIR,R=G		
H179-3	NGC 697	Ari	Galaxy SAB(r)c:	F,CL,E,MBM
Oct 22 1982	12.5" 16mm	SAME		
Sep 10 1980	12.5" 24mm			
Sep 24 1981	12.5" 16mm	CLOSE DOUBLE * OFF TO E,KNTY STR SUSP,SBM,DIF,PF,MS		
H180-1	NGC 5297	CVn	Galaxy SAB(s)c: sp	CB,L,PME142,GBM
Jan 28 1982	12.5" 16mm	DIF,MF,MS,MOD HISB,*NE AND NW,NND		
H180-2	NGC 4454	Vir	Galaxy (R)SB(r)0/a	F,L,R,GBM,ER
May 01 1981	12.5" 24mm	PF,PL,EDGE ON,DNUC,DARM		
H180-3	NGC 7316	Peg	Galaxy S	F,S,R,*8SP
Jul 06 1983	12.5" 16mm	DIF,VF,VS,ELONG,* OFF STELL NUC SUSP,CIGAR SHAPE		
Sep 14 2012	36" 17mmT4	MB,MS,OVAL,VERY SMALL NUC,SHISB,VF * ON OUTER EDGE,B* IN FOV,R=FG		
Sep 18 1982	12.5" 16mm	DIF,MF,MS,OVAL,SBM,B* CLOSE BY		
H181-1	NGC 5383	CVn	Galaxy (R')SB(rs)b: p	CB,CL,R,GBM

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H181-1	NGC 5383	CVn	Galaxy (R')SB(rs)b: p	CB,CL,R,GBM
Jan 28 1982	12.5" 16mm		DIF,MB,ML,FNUC,F*NE SIDE,SBM,R,SPR STR SUSP	
H181-2	NGC 4684	Vir	Galaxy SB(r)0+	B,PL,PME25
Mar 27 1982	12.5" 12mm		MB,PS,ELONG,BNUC,F* OFF TIP,GMBM	
H181-3	NGC 7550	Peg	Galaxy SA0-	CF,S,R
Sep 27 2005	31" 17mmT4		VB,VL,OVAL,LARGE BNUC,GMBM,HISB,EXCELLENT HICKSON CLUSTER,R=E	
H182-2	NGC 4691	Vir	Galaxy (R)SB(s)0/a pec	PB,PL,E90,MBM
Mar 27 1982	12.5" 12mm		MF,MS,ELONG,BRT BAR WITH DIF HALO,NND,HISB ALONG EQ PLANE	
H183-1	NGC 5750	Vir	Galaxy SB(r)0/a	PF,PS,VLE,R
Apr 26 2006	31" 17mmT4		MB,PL,OVAL,R,SMALL BNUC,SPRIAL ARMS DET,PATCHY AREAS,BM,SHISB MIDDLE,R=E	
H183-2	NGC 4593	Vir	Galaxy (R)SB(rs)b	PB,CL,E,SBMN=*
Jun 04 1981	12.5" 24mm		DIF,MF,PL,EDGE ON,DNUC,FAINT HALO,PAIR/4597	
H183-3	NGC 52	Peg	Galaxy S?	VF,S,E
Sep 12 2002	12.5" 9mmT6		DIF,PF,PL,EDGE ON,UB,NND,VF* EDGE OF GAL	
H184-1	NGC 5728	Lib	Galaxy SAB(r)a:	PF,PL,PME45,MBM,*10S
May 02 1981	12.5" 16mm		PB,PL,ELONG ,BNUC,DIM HALO	
H184-2	NGC 4602	Vir	Galaxy SAB(rs)bc	F,L,E,VGLBM
Jun 04 1981	12.5" 24mm		DIF,MF,PS,EDGE ON,FAINT HALO,CLOSE COMP	
H184-3	NGC 7506	Psc	Galaxy (R')SB(r)0+:	CF,VS,R,SBM*15
Sep 17 2009	31" 17mmT4		MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,R=G	
H185-1	NGC 5633	Boo	Galaxy (R)SA(rs)b	CB,PS,R,PGLBM
May 06 1981	12.5" 24mm		DIF,PF,VS,FAINT HALO	
H185-3	NGC 7566	Psc	Galaxy (R')SB(rs)a pec	VF,PS,E,ER,3F*INV
Sep 17 2009	31" 17mmT4		MF,MS,OVAL,LARGE FNUC,F* BOTH ENDS,IRR,SOMEWHAT HISB MIDDLE,R=F	
H186-1	NGC 5195	CVn	Galaxy I0 pec	B,PS,LE,VGBM,INV-M51
Apr 16 1980	6" 24mm			
Apr 19 2014	36" 17mmT4		EB,EL,LBNUC,HISB,HALF ARMS APPEAR BRTER THAN OTHER HALF,INTERACT=5194,R=E	
Apr 19 2014	36" 31mmT5		JUST ABSOLUTELY STUNNING	
Jan 28 1982	12.5" 24mm		MB,ML,BNUC,OVAL,BM,INTERACTING WITH M51	
Mar 16 2010	31" 17mmT4		VB,VL,OVAL,SMALL VERY BNUC,HISB MIDDLE,SUDDENLY MBM,COMP=M51,SPIRAL ARMS,BRIDGE CONNECTS TO M51,FAINT BAR ACROSS NUC,R=E	
H186-3	NGC 7592	Aqr	Galaxy S0+ pec:	EF,VS
Nov 11 2009	31" 17mmT4		MB,MS,PATCH,UB,NND,SHISB,R=G	
H187-1	NGC 5377	CVn	Galaxy (R)SB(s)a	B,L,ME42,SMBMN
Jan 28 1982	12.5" 16mm		DIF,MB,ML,ELONG,DNUC,BM,CIGAR SHAPE,DIF HALO	
H188-1	NGC 5689	Boo	Galaxy SB(s)0/a:	CB,PL,E87,PSMBM
May 06 1981	12.5" 24mm		PB,VS,BNUC	
H188-3	NGC 7701	Psc	Galaxy	VF,S,R,MBM,*11SP
Sep 19 2012	36" 17mmT4		MB,MS,ELONG,LARGE BNUC,MHISB,PAIRS=NGC'S,R=G	
H189-1	NGC 5676	Boo	Galaxy SA(rs)bc	B,L,E45,PGBM,R
Jul 14 1980	12.5" 24mm		GET B* OUT OF FOV TO SEE	
May 06 1981	12.5" 24mm		VB,VL,BNUC,BRT HALO	
H189-2	NGC 4981	Vir	Galaxy SAB(r)bc	B,PL,R,*10SF1'
Mar 22 2004	12.5" 12mmT4		MF,ML,SMALL BNUC,B* ON EDGE,HISB MIDDLE,GMBM,R=G	
H189-3	NGC 7725	Aqr	Galaxy S0	EEF
Sep 06 2002	12.5" 9mmT6		DIF,PB,PL,ELONG,UB,MOD HISB,NND	
H190-1	NGC 5395	CVn	Galaxy SA(s)b pec	CF,CL,E15,LBM,SF OF2
Jan 28 1982	12.5" 16mm		DIF,PB,PL,ELONG,GBM	

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H190-1	NGC 5395	CVn	Galaxy SA(s)b pec	CF,CL,E15,LBM,SF OF2
Jan 28 1982	12.5"	16mm	DIF,PB,PL,ELONG,GBM	
Mar 17 2007	31"	17mmT4	VF,VL,ELONG,OVAL,LARGE FNUC,MHISB,SPIRAL ARMS DET,PATCH AREAS,PAIR=5394,R=E	
H190-2	NGC 4928	Vir	Galaxy SA(s)bc pec	F,PS,VLE,GLBM
Mar 22 2004	12.5"	12mmT4	MF,MS,R,UB,SHISB,R=F	
H190-3	NGC 7832	Psc	Galaxy E+	VF,VS,R,VGPSMBM,2*SF
Oct 12 2012	36"	17mmT4	MB,MS,OVAL,LARGE FNUC,MHISB,VF* OFF EDGE,R=FG	
Sep 04 2002	12.5"	16mm	DIF,PF,PS,OVAL,GMBM,MOD HISB,PAIR/PGC 535	
H191-1	NGC 5394	CVn	Galaxy SB(s)b pec	CF,S,NP OF 2
Mar 17 2007	31"	17mmT4	PB,ML,OVAL,*NUC,SHISB,SUDDENLY MBM,PAIR=5395,R=G	
H192-1	NGC 7008	Cyg	Planetary Neb 3	CB,L,E45,R,**ATT
Aug 11 1982	12.5"	16mm	MF,PL,BG COLOR,NW PART BRT,PATCHY-R,CENTRAL 14* DET,LOC E OF A FEW *S	
Aug 15 2009	31"	17mmT4	MB,PL,PATCH,C* 13TH,2 HALVES,BROKEN,ANOTHER 13TH * IN NEB,BLOBS BOTH ENDS,OIII,HELPS,MORE NEB,BRT BLOBS BOTH ENDS,C* STILL VISIBLE,R=E	
H192-2	NGC 5861	Lib	Galaxy SAB(rs)c	F,L,E,R
May 02 1981	12.5"	16mm	DIF,PF,VL,DIM HALO,FAINT GAL TO S	
H192-3	NGC 702	Cet	Galaxy SB(s)bc pec	EF,VLE0,*13S90"
Nov 17 2012	36"	17mmT4	MF,MS,OVAL,LFNUC,F* OFF EDGE,PAIRS=MAC'S,R=F	
H193-1	NGC 650	Per M76	Planetary Neb 3+6	VB,P OF DNEB
Aug 19 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
Aug 25 1982	12.5"	16mm	HOUR GLASS SHAPE,WHIPHS OF NEB AROUND TIPS,SAME AS BEFORE	
Dec 06 2002	12.5"	9mmT6	PB,PL,2 LOBES EASILY DETECTED,MHISB,BRT REGION IN ONE LOBE. M76	
Jul 11 1980	12.5"	24mm		
Jul 17 1980	12.5"	24mm		
Jul 24 1980	12.5"	24mm		
Mar 02 1984	10"	20mm	SAME	
Mar 19 2004	12.5"	12mmT4	W/OIII. VB,PL,HOUR GLASS SHAPE,BAR,TWO HALVES,MESSIER MARATHON 2004,R=E	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Oct 03 1981	12.5"	24mm	BLUE GREEN,MB,PS,S PART BRTER,HISB,2 PARTS DET,DARK PATCH	
Sep 02 2008	31"	17mmT4	VB,VL,BRT HOUR GLASS CENTRAL REGION,FT WHISPS OF NEB SIDES,OIII NO HELP,F* EDGE OF HOUR GLASS,NO C* DET,R=E	
H193-2	NGC 5077	Vir	Galaxy E3-4	PB,S,VLE,SBM,2ND OF3
Apr 26 2006	31"	17mmT4	VB,MS,R,LARGE BNUC,HISB,COMP=MAC,BM,F* OFF NUC,PAIRS=5079/5076/MAC,R=G	
H193-3	NGC 748	Cet	Galaxy (R')SA(r)b?	PF,*9NP
Nov 22 2006	12.5"	12mmT4	MB,ML,OVAL,PATCH,UB,SOMEWHAT HISB,PATCHY,R=G	
H194-1	NGC 3675	UMa	Galaxy SA(s)b	VB,CL,VME0,VSMBMN
Mar 15 1985	12.5"	16mm	SAME,PB,ML,BNUC,F*N TIP,CIGAR SHAPE,MOD HISB,BM	
Oct 22 1982	12.5"	16mm	MB,ML,ELONG,BNUC,F* IN N TIP,BIG BRT NUC,GMBM	
H194-2	NGC 5548	Boo	Galaxy (R')SA(s)0/a	CF,PS,R,VSVMBM*
May 06 1981	12.5"	24mm	MF,ES,DNUC,ONLY CENTRAL PART OF GAL SEEN	
H195-1	NGC 4111	CVn	Galaxy SA(r)0+: sp	VB,PS,ME151
Feb 12 1983	12.5"	24mm	PB,VS,EDGE ON,BNUC,B* CLOSE BY,F* BET GAL AND B*,TAPPERED ENDS	
Feb 25 2004	31"	17mmT4	VB,PL,EDGE ON,BNUC,HISB MIDDLE,CENTRAL BULGE,TAPPERED ENDS,PAIR=4109,R=E	
H195-2	NGC 6287	Oph	Globular	GCL,CB,L,R,GPMCM,RRR
Jul 21 1984	12.5"	16mm	VDIF,VF,MS,OVAL,UB,NO *S RESOLVED	
Jun 04 1981	12.5"	24mm	DIF,PF,MS	
Jun 18 1980	12.5"	24mm	EF,NND,LOC IN BARREN * FIELD	

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H195-2	NGC 6287	Oph	Globular	GCL,CB,L,R,GPMC,M,RRR
Jun 18 1980	12.5" 24mm	EF,NND,LOC IN BARREN * FIELD		
H196-1	NGC 4138	CVn	Galaxy SA(r)0+	B,PL,E,VGBM,*NP
Feb 25 2004	31" 17mmT4	VB,PL,OVAL,SMALL BNUC,SHISB,SPR STR SUSP,HISB MIDDLE,GMBM,R=E		
Mar 22 2004	12.5" 12mmT4	PB,ML,ELONG,LARGE BNUC,SHISB,GMBM,HISB MIDDLE,R=E		
H196-2	NGC 5694	Hya	Globular	CB,CS,R,PSBM,R,*9SP
Apr 11 2015	36" 17mmT4	PB,MS,SM BRT NUC WITH HISB,HALO OF RESOLVED *S CLOSE TO NUC,19 DEG ALT,~TYPE III,R=G		
Jun 11 1983	12.5" 20mm	MF,PS,BNUC,R,2*S SE,1*SW 1 GAL DIA,1F* SW 2 GAL DIA,MOD HISB		
H197-1	NGC 4485	CVn	Galaxy IB(s)m pec	B,PS,IR,NP OF 2
Jan 28 1982	12.5" 16mm	EDIF,PF,PS,EDGE ON,UB,INTERACTING WITH 4490		
Mar 27 1981	12.5" 24mm			
H197-2	NGC 6544	Sgr	Globular	CF,PL,IR,R
Aug 13 1982	12.5" 16mm	MF,MS,FNUC,SMALL NUC,GBM,SOME *S RESOLVED,R		
Sep 20 1984	12.5" 16mm	VF,MS,F* VERY CLOSE BY,R,BM,SOME *S RESOLVED		
H198-1	NGC 4490	CVn	Galaxy SB(s)d pec	VB,VL,ME130,R,SF OF2
Jan 28 1982	12.5" 16mm	DIF,PB,PL,ELONG,BNUC,GBM,INTERACTING WITH 4485,SN DISCOVERED 8/10/82		
Mar 27 1981	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
H198-2	NGC 6540	Sgr	Globular	PF,S,IE,ER OR CL
Aug 13 1982	12.5" 16mm	DIF,VF,VS,ELONG PATCH,APPEARS AS A GAL,LOCATE FROM 6520,FEW *S RESOLVED		
Sep 20 1984	12.5" 16mm	VDIF,VF,VS,*S APPROX SAME MAG(11.5),SCATTERED,FIND 6520 FIRST		
H199-1	NGC 3198	UMa	Galaxy SB(rs)c	PB,VL,ME45,VGBM
Dec 03 1980	12.5" 24mm			
Mar 15 1985	12.5" 16mm	SAME		
Oct 22 1982	12.5" 16mm	DIF,MF,PL,EDGE ON,F*NW EDGE,UB,NND,TAPPERED TOWARDS ENDS		
H199-2	NGC 6517	Oph	Globular	PB,PL,R,RR
Jun 04 1981	12.5" 24mm	DIF,PF,PS		
H199-3	NGC 1160	Per	Galaxy Scd:	F,E
Aug 17 1982	12.5" 16mm	VDIF,MF,MS,F*S EDGE,PATCHY,NND,NO *S N OR E,PAIR/1161		
H200-1	NGC 2683	Lyn	Galaxy SA(rs)b	VB,VL,VME39,GMBM
Oct 16 1982	12.5" 16mm	MB,ML,EDGE ON,FNUC,F* IN N TIP,B* OFF TO E,DUST LANES SUSP,TAPPERED ENDS,HISB		
H200-2	NGC 6528	Sgr	Globular	GCL,PF,CS,R,GBM,RRR
Aug 13 1982	12.5" 16mm	VDIF,PF,VS,SBM,NO *S RESOLVED,PAIR/6522		
Sep 20 1984	12.5" 16mm	DIF,VF,VS,6522 SAME FIELD TO E,IN BARREN * AREA,R,SBM		
H200-3	NGC 213	Psc	Galaxy SB(rs)a	F,S,BET2S*
Sep 28 2013	36" 17mmT4	PB,MS,OVAL,R,SMALL BNUC,MOD HISB,* OTTTER EDGE,SMBM,FINE GRANULAR HALO AROUND NUC,R=FG		
H201-1	NGC 3877	UMa	Galaxy SA(s)c:	B,L,ME37
Feb 12 1983	12.5" 16mm	MB,PL,EDGE ON,KNTS DET,DUST LANES		
Mar 15 1985	12.5" 16mm	SAME,PB,ML		
H201-2	NGC 6569	Sgr	Globular	GCL,CB,L,R,RRR,*15..
Aug 13 1982	12.5" 16mm	DIF,MF,MS,R,GBM,UB		
Sep 21 1984	12.5" 24mm	PF,PS,R,SBM,2F*S TO S IN A LINE POINTING TO A BRT DOUBLE *,F* ON S EDGE		
H201-3	NGC 871	Ari	Galaxy SB(s)c:	VF,VS,E,*10SF5'
Oct 22 1982	12.5" 16mm	MF,PS,R,MOD HISB,PAIR/877		
Sep 23 2003	31" 17mmT4	PB,ML,OVAL,HISB THROUGHOUT,F* OFF NUC,LARGE BRT NUC,GMBM,R=E		
H202-1	NGC 3949	UMa	Galaxy SA(s)bc:	CB,PL,PME,VGBM

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H202-1	NGC 3949	UMa	Galaxy SA(s)bc:	CB,PL,PME,VGBM
Feb 12 1983	12.5" 16mm	MF,PL,MOD HISB,OVAL,STELL NUC,KNTS SUSP,FACE ON		
Mar 15 1985	12.5" 12mm	MB,ML,RECT SHAPE,UB,MOD HISB,NO *S		
H202-3	NGC 7468	Peg	Galaxy E3: pec	EF,VS
Jul 29 2003	31" 25mm	PB,PL,BNUC,VHISB,LARGE BRT NUC,R=G		
H203-1	NGC 3938	UMa	Galaxy SA(s)c	B,VL,R,BMPBN,ER
Feb 12 1983	12.5" 16mm	MB,VL,FACE ON,R,KNTS DET		
Mar 15 1985	12.5" 16mm	MF,PL,LARGE OVAL,FACE ON,SBM,SOME KNTY STR SUSP,NO *S		
H203-2	NGC 7013	Cyg	Galaxy SA(r)0/a	PB,CS,R,PSBM,PB*NP
Sep 18 2004	31" 17mmT4	PB,PL,ELONG,LARGE BNUC,MOD HISB,LARGE FARMS,HISB MIDDLE,VF* OFF NUC,SBM,R=G		
H203-3	NGC 7497	Peg	Galaxy SB(s)d	VF,L,PME45,LBM
Sep 25 2003	31" 17mmT4	PB,EL,EDGE ON,UB,NND,SHISB,F* IN EDGE,CENTRAL BULGE,R=E		
H204-1	NGC 2639	UMa	Galaxy (R)SA(r)a:?	CB,S,E130,PSMBM
Dec 03 1980	12.5" 24mm			
Mar 15 1985	12.5" 16mm	PF,PS,ELONG,SBM,NO *S,FORMS TRI WITH 2 OTHER *S		
H204-2	NGC 6629	Sgr	Planetary Neb 2a	PLNORGCL,PB,EES,R
Aug 13 1982	12.5" 7mm	MF,VS,BETWEEN 2*S IN FIELD OF VIEW,HARD TO LOC,R,BLUE GREEN COLOR		
May 19 2009	31" 12mmT4	MB,PS,R,C* APPROX 13TH MAG,BLUEISH-GREEN,BRT TOWARDS MIDDLE,OIII DNH,R=G		
H204-3	NGC 251	Psc	Galaxy Sc	VF,S,R,LBM,*INV,2S*F
Sep 28 2013	36" 17mmT4	MF,ML,OVAL,LARGE FNUC,R=F		
H205-1	NGC 2841	UMa	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
Apr 14 2004	31" 17mmT4	VB,EL,ELONG,LARGE BNUC,HISB,LARGE AREA OF ARMS,DUST SUSP,* IN TIP,R=E		
Dec 03 1980	12.5" 24mm			
Mar 15 1985	12.5" 12mm	SAME,ALL *S PRESENT		
Oct 16 1982	12.5" 12mm	FAINTER * OFF NE,SAME		
Oct 16 1982	12.5" 16mm	VB,ML,ELONG,BNUC,F* IN N TIP,F*NW,GMBM,DIF HALO,VF*N		
H205-2	NGC 6642	Sgr	Globular	GCL,PB,PL,IR,GPMBM
Aug 13 1982	12.5" 16mm	MF,PS,VMBM,R		
H206-1	NGC 4088	UMa	Galaxy SAB(rs)bc	B,CL,E55,LBM
Feb 12 1983	12.5" 24mm	DIF,PB,PL,ELONG,HISB,NND,UB,W SIDE WIDER THAN E,PAIR/4085		
Mar 06 2003	12.5" 9mmT6	MB,EL,OVAL,PATCH,UB,NND,SOMEWHAT HISB,PAIR=4085,R=E		
H206-3	NGC 473	Psc	Galaxy SAB(r)0/a:	EF,S
Sep 24 1981	12.5" 16mm	DIF,MF,VS,DNUC,SBM,R,SOMEWHAT HISB,NO *S NEAR GALAXY		
H207-1	NGC 4096	UMa	Galaxy SAB(rs)c	PB,VL,ME32
Mar 22 2004	12.5" 12mmT4	MF,PL,EDGE ON,PATCH,NND,SOMEWHAT BM,CENTRAL REGION PATCHY,BROKEN,R=G		
Mar 27 1981	12.5" 24mm			
H207-2	NGC 7217	Peg	Galaxy (R)SA(r)ab	B,PL,GBM,ER
Aug 25 1982	12.5" 16mm	MB,PL,R,VMBM		
Jul 07 1981	12.5" 24mm	MB,PB,ELONG,DIM NUC,FAINT HALO		
Jul 11 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 14 2012	36" 17mmT4	PB,PL,OVAL,R,LARGE BNUC,HISB,GMBM,F* OFF SIDE,R=G		
Sep 21 1984	12.5" 12mm	PB,PL,BNUC,R,VMBM,LARGE SOFT NUC		
H207-3	NGC 794	Ari	Galaxy S0-:	VF,CS,STELLAR
Sep 23 2003	31" 17mmT4	PB,ML,OVAL,R,LARGE BNUC,GMBM,MOD HISB,R=G		
H208-1	NGC 4157	UMa	Galaxy SAB(s)b? sp	PF,CL,VME60,(DOUBLE)

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H208-1	NGC 4157	UMa	Galaxy SAB(s)b? sp	PF,CL,VME60,(DOUBLE)
Apr 23 2003	12.5" 9mmT6	VF,EL,EDGE ON,BNUC,MOD HISB,DUST LANE SUSP,RES 7331,CENTRAL BULGE,R=E		
H208-2	NGC 7741	Peg	Galaxy SB(s)cd	CF,CL,IR,D*10,12NP2'
Jul 07 1981	12.5" 24mm	DIF,VF,ML,FAINT HALO,LOC BY BRT DOUBLE *		
Sep 10 1980	12.5" 24mm	B* IN EDGE OF GAL		
Sep 21 1984	12.5" 16mm	SAME		
H208-3	NGC 803	Ari	Galaxy SA(s)c: sp	VF,S,IR,GLBM,*10P3S
Oct 23 1982	12.5" 16mm	MF,MS,SLIGHTLY ELONG,MOD HISB,NND,B*W SIDE,12MM SBM		
H209-1	NGC 4220	CVn	Galaxy SA(r)0+	CB,PL,PME134,PSBM
Jan 26 1982	12.5" 16mm	MB,VL,BNUC,FAINT HALO,F*NE EDGE,SOMEWHAT OVAL,BM,		
Jan 26 1982	12.5" 24mm	NICE!!,PAIR/4217		
H209-2	NGC 214	And	Galaxy SAB(r)c	PF,PS,GVLBM,R
Aug 31 1984	12.5" 16mm	DIF,MF,PS,IN BARREN * FIELD,VF * DETECTED TO W SEVERAL GAL DIA,PATCHY,VB		
Sep 10 1980	12.5" 24mm			
Sep 23 1981	12.5" 16mm	BARREN * FIELD,DIF WITH V LITTLE BRIGHTNESS IN MIDDLE,PF,PS		
H209-3	NGC 7042	Peg	Galaxy Sb	VF,S,R
Aug 10 2002	12.5" 12mm	DIF,MF,PL,OVAL,PATCHY,UB,COMP=7043		
Aug 10 2002	12.5" 9mmT6	DIF,MF,MS,ELONG,MOD HISB,MBM		
H210-1	NGC 4346	CVn	Galaxy S0 sp	VF,S,ME100,VSMBMBN
Jan 26 1982	12.5" 16mm	DIF,MF,VS,DIM NUC,OVAL,VMBM		
Mar 27 1981	12.5" 24mm			
H210-2	NGC 315	Psc	Galaxy E+:	PB,PL,R,GBM,*9NF3'
Sep 04 2002	12.5" 9mmT6	PB,PL,OVAL,F* IN GAL EDGE,GMBM,HISP,PAIR/311/318		
H210-3	NGC 7463	Peg	Galaxy SABb: pec	VF,S,LE,P OF 2
Aug 10 2002	12.5" 9mmT6	DIF,MF,PL,EDGE ON,COMP=7465,SBM		
Aug 20 2003	31" 25mm	PB,PL,PATCH,UB,NND,SHISB,COMP=7464,PAIRS=7465/7464,R=G		
Jul 29 2003	12.5" 9mmT6	PB,PL,ELONG,PATCH,UB,PAIR/7464/7465,R=G		
H211-1	NGC 4800	CVn	Galaxy SA(rs)b	PB,CS,R,PSBM,*14P
Jan 28 1982	12.5" 16mm	DIF,MF,PS,FNUC,* ON W SIDE,OVAL,MOD BM		
H211-2	NGC 972	Ari	Galaxy Sab	PB,CL,LE,GMBM,3*S
Oct 23 1982	12.5" 16mm	SAME		
Oct 31 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 24 1981	12.5" 16mm	ELONG,HISB,GBM,5F**S LOOP AROUND GAL,SE **S VERY FAINT,MB,PL		
H211-3	NGC 7465	Peg	Galaxy (R')SB(s)0^:	VF,VS,FOF 2
Aug 10 2002	12.5" 9mmT6	PB,ML,BNUC,GMBM,OVAL,COMP=7463		
Aug 20 2003	31" 25mm	PB,PL,BNUC,MOD HISB,LARGE BRT NUC,PAIRS=7464/7463,R=E		
Jul 29 2003	12.5" 9mmT6	MB,ML,R,BNUC,HISB,GMBM,LARGE NUC,PAIR/7484/7463,R=G		
H212-1	NGC 4460	CVn	Galaxy SB(s)0+? sp	B,PL,E123,PSBM
Jan 28 1982	12.5" 16mm	DIF,PF,MS,ELONG,FNUC,SBM		
Mar 17 2007	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,HISB MIDDLE,CENTRAL THICKNESS,R=E		
H212-2	NGC 7457	Peg	Galaxy SA(rs)0-?	CB,CL,LE,GMBM,R,2S*N
Aug 10 2002	12.5" 12mm	MF,ML,OVAL,PATCHY,GMBM,MOD HISB,SPR STR SUSP		
Jul 07 1981	12.5" 24mm	DIF,MF,PS,FNUC		
Sep 10 1980	12.5" 24mm			
Sep 21 1984	12.5" 16mm	MF,MS,STELL NUC,SLIGHTLY ELONG,2**S SAME MAG SW CLOSE BY		
H212-3	NGC 7659	Peg	Galaxy S0/a	VF,VS,R,PSBM
Nov 24 2006	12.5" 12mmT4	MF,MS,ELONG,LARGE BNUC,SMBM,R=F		

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H212-3	NGC 7659	Peg	Galaxy S0/a	VF,VS,R,PSBM
Nov 24 2006	12.5"	12mmT4	MF,MS,ELONG,LARGE BNUC,SMBM,R=F	
H213-1	NGC 4449	CVn	Galaxy IBm	VB,CL,ME,DORBIFID,*F
Jan 28 1982	12.5"	16mm	DIF,PB,PL,ELONG,FNUC,F* IN W EDGE NEAR NUC,HISB,GMBM,F* FARTHER W	
Jan 28 1982	12.5"	7mm	STELL NUC,ANOTHER F* JUST W OF NUC	
H213-2	NGC 7753	Peg	Galaxy SAB(rs)bc	CF,CL,VLE,VGLBM,R
Sep 05 2007	31"	17mmT4	MF,ML,NND,MOD HISB,PAIR=7752,R=F	
H213-3	NGC 7691	Peg	Galaxy SAB(rs)bc	EF,PL,TRI W/2*10
Sep 05 2007	31"	17mmT4	DIF,VF,PL,OVAL,PATCH,UB,NND, 3 *S IN TRIANGLE AROUND GAL,R=F	
H214-1	NGC 5474	UMa	Galaxy S(c)	PB,L,BM
Jun 11 1983	12.5"	20mm	DIF,MB,PL,FNUC,F*NW 1 GAL DIA,OVAL,SMALL BRT NUC,SOUTH OF M101	
Mar 06 2003	12.5"	9mmT6	PF,PL,R,PATCH,NND,PATCHY,F* IN GAL DET,R=G	
Mar 27 1981	12.5"	24mm		
H214-3	NGC 774	Ari	Galaxy S0	VF,STELLAR
Oct 22 1982	12.5"	16mm	VDIF,MF,PS,S OF F*,UB,OVAL	
H215-1	NGC 5866	Dra M102	Galaxy SA0+ sp	VB,CL,PME146,GBM
Apr 23 2003	12.5"	9mmT6	EB,,VL,OVAL,BNUC,HISB,AWSOME,BEAUTIFUL,TAPPERED ENDS,LARGE NUC AREA,GMBM,R=E	
Jul 09 1983	12.5"	12mm	MB,ML,BNUC,2F*S ON BOTH SIDES,LARGE BRT NUC,TAPPERED ENDS	
Jul 11 1980	12.5"	24mm		
Jul 14 1980	12.5"	24mm		
Jul 22 1981	12.5"	16mm	VB,ML,ELONG,BNUC,BRT HALO AROUND NUC	
Jun 20 1980	12.5"	24mm		
Mar 02 1984	10"	20mm	SAME	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
H215-2	NGC 379	Psc	Galaxy S0	PF,S,R,BM
Sep 18 2009	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB MIDDLE,PAIRS=OTHER NGC'S,R=G	
H215-3	NGC 781	Ari	Galaxy S?	EF,STELLAR
Oct 22 1982	12.5"	16mm	DIF,EF,VS,R,STELL NUC	
H216-1	NGC 2787	UMa	Galaxy SB(r)0+	B,PL,LE90,MBM,R,*INV
Mar 15 1985	12.5"	12mm	SAME,F* IN E SIDE NOT DET	
Mar 26 2003	12.5"	9mmT6	PB,ML,R,MHISB,FACE ON,F* IN GAL ARMS,GBM,SPR STR SUSP,R=E	
Oct 16 1982	12.5"	12mm	R,GMBM,ANOTHER F* IN EASTERN PART	
Oct 16 1982	12.5"	16mm	MB,MS,BNUC,OVAL,F* IN S PART,HISB MIDDLE	
H216-2	NGC 380	Psc	Galaxy E2	PF,S,R,SBM
Sep 18 2009	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,HISB MIDDLE,PAIRS=OTHER NGC'S,R=G	
H216-3	NGC 7385	Peg	Galaxy E pec:	CF,S,R,GLBM,*11NP
Sep 20 2003	31"	25mm	PB,PL,OVAL,PATCH,BNUC,MOD HISB,LARGE NUC AREA,9 GAL IN CLUSTER,R=G	
H217-1	NGC 1579	Per	Nebula R	PB,VL,IR,MBM,*8 2'NF
Aug 10 2002	12.5"	16mm	PB,PL,BRT NEBULA,MOD HISB,NO *S,UB	
Aug 10 2002	12.5"	9mmT6	PATCH,UB	
Sep 27 2005	31"	17mmT4	VB,VL,PATCH,UB,MOD HISB,EM NEB,PATCHY,BRT PATCHES DET,IRR IN SHAPE,R=G	
H217-2	NGC 383	Psc	Galaxy SA0-:	PF,PL,R,GBM,NF D NEB
Sep 18 2009	31"	17mmT4	VB,VL,R,LARGE BNUC,HISB,GRANULAR HALO AROUND NUC,PAIRS=OTHER NGC'S,R=E	
H217-3	NGC 7386	Peg	Galaxy SA0:	CF,S,R,PGBM,F OF 2
Sep 20 2003	31"	25mm	PB,PL,ELONG,BNUC,SMALL NUC AREA,MOD HISB,7386 CLUSTER OF 9,R=G	
H218-1	NGC 2419	Lyn	Globular	PB,PL,LE90,VGBM,*4'F

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H218-1	NGC 2419	Lyn	Globular	PB,PL,LE90,VGBM,*4'F
Oct 16 1982	12.5" 16mm	MF,PL,R,UB,SBM,2 B*S POINT TO IT,COUPLE OF F*S SCATTERED AROUND OBJECT		
H218-3	NGC 7648	Peg	Galaxy S0	VF,PS,LE,BM
Oct 25 2006	31" 17mmT4	PB,ML,OVAL,LARGE BNUC,F*S BOTH ENDS,MOD HISB MIDDLE,BAR SUSP,PAIR=MAC,R=G		
H219-1	NGC 3665	Leo	Galaxy SA(s)0^	CB,CL,IR,PGMBM
Mar 15 1985	12.5" 16mm	MF,MS,FNUC,SMALL BRT NUC,F* TO N,MOD HISB,LARGE NUC REGION		
Oct 22 1982	12.5" 16mm	MB,ML,DNUC,OVAL,MOD HISB TOWARDS CENTER,LARGE NUC AREA		
H219-2	NGC 407	Psc	Galaxy S0/a: sp	VF,VS,SP OF 2
Sep 04 2002	12.5" 9mmT6	DIF,PF,MS,ELONG,SBM,OVAL PATCH,PAIR/410/414		
H219-3	NGC 6956	Del	Galaxy SBb	VF,S,STELL,**ATT
Jul 08 1983	12.5" 12mm	DIF,MF,MS,FACE ON,B* IN GAL,MOD HISB,DARK PATCHES SUSP,VF*E EDGE		
Jul 30 2002	12.5" 12mm	SAME		
Jul 31 2002	12.5" 12mm	SAME,WHISPY,SLIGHTLY ELONG		
Sep 19 2012	36" 17mmT4	MB,MS,OVAL,SMALL BNUC,GMBM,MOD HISB MIDDLE,BAR,2 SPR ARMS OFF ENDS OF BAR,* CLOSE TO NUC,R=FG		
H220-1	NGC 3549	UMa	Galaxy SA(s)c:	CB,CL,CE160
Mar 15 1985	12.5" 16mm	DIF,MF,PL,ELONG,PATCH,UB,NND		
H220-2	NGC 410	Psc	Galaxy E+:	PB,PL,NF OF 2
Sep 04 2002	12.5" 9mmT6	PB,PL,OVAL,GBM,MOD HISB,PAIR/407/414		
H220-3	NGC 7515	Peg	Galaxy S?	F,CS,R,VGLBM,R
Sep 25 2003	31" 17mmT4	VB,VL,OVAL,PATCH,SMALL BNUC,GMBM,MOD HISB ARMS,MOD HISB,R=G		
H221-1	NGC 3718	UMa	Galaxy SB(s)a pec	PB,VL,R,VGLBM
Feb 23 2006	31" 17mmT4	VB,EF,LARGE BNUC,F* CLOSE TO NUC IN GAL,PATCHY,ARMS SUSP,H2 REGIONS,PAIR=MAC,R=E		
Mar 15 1985	12.5" 16mm	PF,VL,SPR ARMS DET,BRT BAR,VERY R,FACE ON,2B*S TO S,PAIR/3729		
Oct 22 1982	12.5" 24mm	MB,ML,2F*S IN S PART,OVAL,NND,PAIR/3729		
H221-2	NGC 736	Tri	Galaxy E+:	PB,R,BM
Aug 25 1982	12.5" 16mm	DIF,MF,MS,F*S N EDGE (2 OR 3),CLOSE PAIR/750		
Dec 04 2004	31" 17mmT4	PB,MS,LARGE BNUC,* OFF ONE SIDE,HISB MIDDLE,PAIRS=733/738/740,R=G		
H221-2	NGC 740	Tri	Galaxy SBb?	F,L,CE
Dec 04 2004	31" 17mmT4	PF,MS,ELONG,UB,NND,CIGAR SHAPE,PAIRS=733/736/738,R=F		
H221-3	NGC 7559B	Peg	Galaxy S0-:	
Oct 25 2006	31" 17mmT4	EF,VS,PATCH,UB,NND,INTERACTING=7559A,R=P		
Sep 20 2003	31" 25mm	PB,PL,OVAL,BNUC,MOD HISB,LARGE BRT NUC,F* OFF EDGE,PAIRS/7563/7559A,R=G		
H222-1	NGC 3729	UMa	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
Feb 23 2006	31" 17mmT4	VB,VL,OVAL,SMALL BNUC,HISB,ARMS,PATCHY AREAS,BRT BAR LIKE NUC W/BULGE,COMP=MAC,* ON EDGE,R=E		
Mar 15 1985	12.5" 16mm	MB,ML,BRT THAN 3718,MOD HISB,B* ON S EDGE,UB,PAIR/3718		
Oct 22 1982	12.5" 24mm	VF,ML,OVAL,NND,MOD HISB,F* IN S PART,PAIR/3718		
H222-2	NGC 750	Tri	Galaxy E pec	CB,PL,R,DW/751,25"
Aug 25 1982	12.5" 16mm	PAIR/736		
Dec 04 2004	31" 17mmT4	PB,ML,R,BNUC,HISB,COMP OR INTERACTING WITH 751,R=G		
Oct 31 1980	12.5" 24mm	PAIR/777		
Sep 18 1980	12.5" 24mm			
Sep 23 1981	12.5" 16mm	DIF,PF,PS,ELONG,SIM TO 670,FNUC SUSP,NO *S		
H222-3	NGC 7563	Peg	Galaxy SBa	PF,CS,R,SBM*16,SFOF2
Oct 25 2006	31" 17mmT4	PB,ML,ELONG,LARGE BNUC,MOD HISB MIDDLE,GMBM,PAIRS=7559A/B,R=G		
Sep 20 2003	31" 25mm	PB,PL,OVAL,BNUC,LARGE NUC,F* OFF ON EDGE 1 GAL DIA,MOD HISB,PAIRS/7559/7559A,R=G		

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H223-1	NGC 4026	UMa	Galaxy S0 sp	VB,CL,ME176,VSVMBMBN
Feb 12 1983	12.5" 16mm	MB,PS,EDGE ON,DUST LANE SUSP,VBM,CENTRAL BULGE		
H223-2	NGC 777	Tri	Galaxy E1	PB,PL,R,GLBM
Aug 25 1982	12.5" 16mm	SAME		
Oct 22 1982	12.5" 16mm	SEEMS LIKE AN E2 GAL,MB,MS,HISB TOWARDS MID,PAIR/778		
Oct 31 1980	12.5" 24mm	PAIR/750		
Sep 23 1981	12.5" 16mm	DIF,R,SMBM,DIF HALO		
H223-3	NGC 171	Cet	Galaxy SB(r)ab	VF,PL,LE,2PB*SF
Sep 24 1981	12.5" 16mm	EXT DIF,EF,VS,BLURR,FORMS EQ TRIANGLE WITH *S SAME MAGNITUDE		
H224-1	NGC 4085	UMa	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
Feb 12 1983	12.5" 24mm	DIF,PF,ML,EDGE ON,UB,NND,PAIR/4088		
Mar 06 2003	12.5" 9mmT6	MB,VL,EDGE ON,UB,NND,PAIR=4088,R=G		
H224-2	NGC 404	And	Galaxy SA(s)0-:	PB,CL,R,GBM,
Aug 19 1980	12.5" 24mm			
Aug 31 1984	12.5" 12mm	VF,MS,FNUC,F*NW 1 GAL DIA,OVAL-R,SBM,KEEP BETA OUT OF FIELD		
Jul 11 1980	12.5" 24mm	VERY CLOSE TO B*		
Sep 10 1980	12.5" 24mm			
Sep 20 1981	12.5" 24mm			
Sep 23 1981	12.5" 16mm	F* TO NE 2 GAL DIA AWAY,BM,KEEP BETA OUT OF FIELD,DIM NUC,MF,MS		
H225-1	NGC 4102	UMa	Galaxy SAB(s)b?	B,PS,R,BMBN,*12SPVNR
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,R,BM,F* (13 MAG) W EDGE,F* FARTHER E		
Mar 06 2003	12.5" 9mmT6	PB,ML,OVAL,BNUC,HISB,LARGE HISB NUC,F* OFF ONE EDGE,R=G		
H225-2	NGC 890	Tri	Galaxy SAB(r)0-?	B,S,R,BM,3F*SP
Aug 25 1982	12.5" 16mm	APPEARS AS E2 GALAXY,MOD HISB TOWARDS CENTER		
Sep 18 1980	12.5" 24mm			
Sep 23 1981	12.5" 16mm	MF,PS,F*W SIDE,SBM,R		
H225-3	NGC 2124	Lep	Galaxy SA(s)b?	EEF,PS,E,R
Nov 22 2006	12.5" 12mmT4	MF,ML,EDGE ON,UB,NND,THIN SLIVER,R=G		
H226-1	NGC 3631	UMa	Galaxy SA(s)c	PB,L,R,SVMBMRN
Mar 15 1985	12.5" 16mm	MB,ML,FNUC,FACE ON,SBM,SMALL NUC,SPR STR DET,2 *S OUTER ARMS		
Oct 22 1982	12.5" 16mm	DIF,VF,MS,PATCHY,OVAL,STELL NUC		
H226-2	NGC 7678	Peg	Galaxy SAB(rs)c	VF,PL,VLE,LBM,AM4ST
Jul 29 1981	12.5" 12mm	DIF,MF,PS,FAINT HALO,3*S APPROX 11TH MAG		
Sep 10 1980	12.5" 24mm	3B*S IN GAL		
Sep 21 1984	12.5" 16mm	SAME,DIF,PF,MS,UB,NND		
H226-3	NGC 7671	Peg	Galaxy SA0:	PB,S,R,VSMBM,*9P
Nov 24 2006	12.5" 12mmT4	MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIR=7672,R=G		
H227-1	NGC 3780	UMa	Galaxy SA(s)c:	PF,L,VLE,VGBM,R
Mar 15 1985	12.5" 16mm	DIF,MF,PL,F* E TIP,NND,UB,OVAL,PATCH		
H227-2	NGC 7817	Peg	Galaxy SAbc: sp	PF,CL,ME45,LBM
Sep 25 2003	31" 17mmT4	EF,EL,EDGE ON,UB,NND,HISB,F* IN GAL BY NUC,KNTS SUSP,R=E		
H227-3	NGC 827	Cet	Galaxy S?	VF,S,E,BM, AM ST
Sep 25 2003	31" 17mmT4	PB,PL,ELONG,EDGE ON,UB,NND,SHISB,R=G		
H228-1	NGC 3898	UMa	Galaxy SA(s)ab	B,PL,LE,SVMBM
Feb 12 1983	12.5" 16mm	MB,PL,ELONG,BNUC,VMBM		
Mar 15 1985	12.5" 12mm	PB,ML,BNUC,HISB,BM,R-OVAL,PAIR/3888		
H228-2	NGC 678	Ari	Galaxy SB(s)b: sp	PB,S,IR,MBM,P OF 2
Oct 22 1982	12.5" 16mm	DIF,MF,PS,EDGE ON,GBM,CLOSE PAIR/680		

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H228-2	NGC 678	Ari	Galaxy SB(s)b: sp	PB,S,IR,MBM,P OF 2
Oct 22 1982	12.5" 16mm	DIF,MF,PS,EDGE ON,GBM,CLOSE PAIR/680		
Sep 23 2003	31" 17mmT4	VF,VL,ELONG TO EDGE ON,LARGE BRT NUC,DUST LANE SUSP,HISB,PAIR=680,R=E		
H229-1	NGC 3998	UMa	Galaxy SA(r)0⁺?	CB,PS,R,VG,SMBM
Feb 12 1983	12.5" 16mm	MB,MS,BNUC,R,VMBM,FAINT COMP (3990),FORMS TRI WITH 3982		
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,R,COMP TO W = 3990		
H229-2	NGC 680	Ari	Galaxy E+ pec:	PB,S,IR,MBM,F OF 2
Oct 22 1982	12.5" 16mm	MF,PS,VMBM,R,CLOSE PAIR/678		
Sep 23 2003	31" 17mmT4	VB,PL,R,LARGE BRT NUC,GMBM,FAINT ARMS,HISB,PAIR=680,COMP DET NOT ID,R=G		
H230-1	NGC 5422	UMa	Galaxy S0 sp	PB,S,PME45,VSVMBMN
Mar 06 2003	12.5" 9mmT6	PB,ML,EDGE ON,BNUC,HISB,LARGE BRT NUC,MOD HISB MIDDLE,R=G		
H230-2	NGC 7769	Peg	Galaxy (R)SA(rs)b	PF,PS,R,MBM
Sep 10 1980	12.5" 32mm	NICE PAIR OF GAL		
Sep 21 1984	12.5" 16mm	DIF,MF,MS,SBM,F* SW 1 GAL DIA,MOD HISB,PAIR/7771/7770		
H230-3	NGC 7469	Peg	Galaxy (R')SAB(rs)a	VF,VS,VSMBM *12
Jul 07 1981	12.5" 24mm	DIF,EF,ES,EXT FAINT HALO		
Oct 06 2004	31" 17mmT4	MF,PS,OVAL,SMALL BNUC,F* AND B* IN GAL,SMBM,PAIR=IC5283,R=F		
Sep 21 1984	12.5" 16mm	DIF,VF,VS,R,SLIGHT PATCH,VMBM,VERY FAINT HALO		
H231-1	NGC 5473	UMa	Galaxy SAB(s)0-:	PB,S,R,GBM
Jun 11 1983	12.5" 20mm	MB,PS,BNUC,BETWEEN 2 F*S E&W,R,SBM,CLOSE TO M101 (NORTH)		
Mar 06 2003	12.5" 9mmT6	PB,ML,R,BNUC,MOD HISB,R=G		
Mar 27 1981	12.5" 24mm			
H231-2	NGC 7771	Peg	Galaxy SB(s)a	PB,PL,E84,BM,N OF 2
Sep 21 1984	12.5" 16mm	DIF,MF,MS,ELONG,SBM,NO *S,PAIR/7769/7770		
H231-3	NGC 7778	Psc	Galaxy E	CF,S,R,PSBM,1ST OF 4
Sep 27 1981	12.5" 16mm	CLOSE PAIR/7782,2 OF 4 COMP		
H232-1	NGC 5485	UMa	Galaxy SA0 pec	CB,R,VGBM,F OF 2
Mar 06 2003	12.5" 9mmT6	PB,PL,PATCH,MOD HISB,SGBM,PAIR/5486/5484,R=G		
Mar 27 1981	12.5" 24mm			
H232-2	NGC 7798	Peg	Galaxy S	PF,S,R,SBM,*10SP
Oct 01 2005	31" 17mmT4	VB,PL,R,HISB,SPR STR DET,VERY SMALL STELLAR BNUC,SN?,R=E		
H232-3	NGC 7779	Psc	Galaxy (R')SA0/a:	PF,S,R,PSBM,2ND OF 4
Sep 27 1981	12.5" 16mm	CLOSE PAIR/7782,3 OF 4 COMP		
H233-1	NGC 3448	UMa	Galaxy I0	B,PL,ME67,GBM
Apr 07 2008	31" 17mmT4	VF,VL,ELONG,LARGE BNUC,HISB,GOOD DEF,DUST AREA DET,CENTRAL BULGE,BROKEN,R=E		
Mar 15 1985	12.5" 16mm	DIF,VF,MS,EDGE ON,UB,SLIGHTLY ELONG,NND,BETWEEN A TRI OF VERY F*S		
H233-2	NGC 7332	Peg	Galaxy S0 pec sp	CB,S,ME156,SMBMN,P-2
Aug 10 2002	12.5" 12mm	SAME		
Jul 06 1983	12.5" 16mm	MF,MS,EDGE ON,BNUC,CLOSE PAIR/7339,MINATURE M104,BRT BULGE,TAPPED ENDS		
Jul 07 1981	12.5" 16mm	DIF,MB,ML,FAINT HALO,FAINT COMP CLOSE BY		
Jul 11 1980	12.5" 24mm	LOC BETWEEN 2B*S		
Jul 12 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Jul 29 1981	12.5" 16mm	EDGE ON,GMBM		
Sep 07 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 14 2012	36" 17mmT4	VB,VL,EDGE ON,SMALL BNUC,EXCELLENT PAIR,CENTRAL BULGE,GMBM,HISB		

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H233-2	NGC 7332	Peg	Galaxy S0 pec sp	CB,S,ME156,SMBMN,P-2
Sep 14 2012	36"	17mmT4	VB,VL,EDGE ON,SMALL BNUC,EXCELLENT PAIR,CENTRAL BULGE,GMBM,HISB MIDDLE,PAIR=7339,R=E	
Sep 18 1982	12.5"	16mm	MB,ML,EDGE ON,BNUC,GMBM,TAPPERED,PAIR/7339	
Sep 21 1984	12.5"	12mm	SAME,NO *S	
H233-3	NGC 7782	Psc	Galaxy SA(s)b	PF,PL,LE,GLBM,4THOF4
Sep 27 1981	12.5"	16mm	DIF,MF,MS,ELONG,NUC SUSP,SBM,1 OF 4 COMP	
H234-1	NGC 4500	UMa	Galaxy SB(s)a	B,CS,E,PGBM,*9F50"
Feb 04 2005	31"	17mmT4	PB,MS,ELONG,SMALL BNUC,HISB MIDDLE,BM,TAPPERED ENDS,R=G	
H234-2	NGC 7339	Peg	Galaxy SAB(s)bc:?	F,PS,ME89,VGLBM,FOF2
Aug 10 2002	12.5"	12mm	SAME	
Jul 06 1983	12.5"	16mm	DIF,MF,PS,EDGE ON,CLOSE PAIR/7332,UB,NND,MOD HISB	
Jul 12 1980	12.5"	24mm	CLOSE TO 7332,FAINT	
Jul 29 1981	12.5"	16mm	GOOD PAIR/7332,DIF,EDGE ON,SOMEWHAT BM,	
Sep 14 2012	36"	17mmT4	PB,VL,EDGE ON,UB,NND,EXCELLENT PAIR,SOMEWHAT IRR EDGE ON,PAIR=7332,R=E	
Sep 18 1982	12.5"	16mm	DIF,PF,ML,EDGE ON,NND,UB,PAIR/7332	
Sep 21 1984	12.5"	12mm	SAME,NO *S	
H235-1	NGC 5585	UMa	Galaxy SAB(s)d	PF,L,IR,VGMBM,R
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VL,OVAL,PATCH,NND,PATCH AREA'S IN VARIOUS PARTS DETECTED,R=F	
H235-2	NGC 7556	Psc	Galaxy S0-	CF,PL,R,B** F
Sep 17 2009	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIRS=7544/MAC'S,R=G	
H236-1	NGC 5631	UMa	Galaxy SA(s)0^	B,S,R,PSBMN
Jun 01 2003	12.5"	9mmT6	PB,ML,ELONG,BNUC,SHISB,HALO-ARMS,SMALL BRFT NUC,STELLAR LIKE,GMBM,R=G	
Jun 11 1983	12.5"	20mm	MF,VS,BNUC,SEVERAL F*S TO N,R,GBM,BARREN AREA TO SOUTH	
H236-2	NGC 7585	Aqr	Galaxy (R')SA(s)0+ pec	PB,PS,IR,GBM
Nov 11 2009	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,MOD HISB,SMALL TIGHT VB NUC,GRADUALLY BM,R=E	
Sep 10 1980	12.5"	24mm		
H236-3	NGC 2764	Cnc	Galaxy S0:	CF,VS,R,ER,BET2PB*
Feb 21 1984	12.5"	12mm	SAME,LOC BET 2F*S,VDIF,VF,VS	
Oct 24 1981	12.5"	12mm	EEDIF,EF,VS,NND,PATCHY,POORLY DEFINED,ROUND OVAL SHAPE	
H237-1	NGC 5678	Dra	Galaxy SAB(rs)b	B,L,LE0,VGMBM
Apr 14 2004	31"	17mmT4	VB,VL,OVAL,SHISB,GRADUALLY BM,MOD HISB MIDDLE,PAIR=PGC51922,R=G	
Jul 22 1981	12.5"	16mm	OBLONG,SMBM,DIF,DNUC,FAINT HALO	
H237-2	NGC 958	Cet	Galaxy SB(rs)c:	PF,ILE,BM
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	DIF,ELONG,NND,F*1 GAL DIA TO N,UB	
H237-3	NGC 7321	Peg	Galaxy SB(r)b	F,S,IR,VGLVLM
Sep 17 2003	31"	25mm	PB,PL,ELONG,BNUC,MHISB,LARGE CENTRAL NUC,F*ON EDGE,CLOSE PAIR=69282,R=G	
H238-2	NGC 1003	Per	Galaxy SA(s)cd	PF,L,E90,MBM,R
Aug 17 1982	12.5"	16mm	DIF,PF,MS,ELONG,F* IN EASTERN PART,NND,PATCHY	
H238-3	NGC 7570	Peg	Galaxy SBa	EF,ES
Oct 01 2005	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,SOMEWHAT HISB MIDDLE,R=F	
H239-1	NGC 5379	UMa	Galaxy S0	PB,PS,E,MBM
May 16 2004	31"	17mmT4	DIF,MF,ML,OVAL,PATCH,NND,SOMEWHAT BM,PAIRS=5389/5376/P49512,R=F	
H239-2	NGC 1161	Per	Galaxy S0	F,PS,LE,SBM
Aug 17 1982	12.5"	16mm	MF,PS,BNUC,2B*S JUST OFF TO W TIP,R,GBM,MOD HISB,PAIR/1160	
H240-1	NGC 5389	UMa	Galaxy SAB(r)0/a:?	PB,PL,E,MBMN
May 16 2004	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,MOD HISB,GMBM,TAPPERED	

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H240-1	NGC 5389	UMa	Galaxy SAB(r)0/a:?	PB,PL,E,MBMN
May 16 2004	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,MOD HISB,GMBM,TAPPERED ARMS,PAIRS=5379/5376/P49512,R=E	
H240-2	NGC 7814	Peg	Galaxy SA(s)ab: sp	CB,CL,E,VGBM
Jul 07 1981	12.5"	24mm	DIF,MF,ML,VERY FAINT HALO	
Sep 10 1980	12.5"	24mm		
Sep 21 1984	12.5"	16mm	MB,PL,ELONG,LARGE SOFT NUC,HISB,NO *S	
H240-3	NGC 1979	Lep	Galaxy SA0:	VF,VS,STELLAR
Nov 22 2006	12.5"	12mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,R=G	
H241-1	NGC 3621	Hya	Galaxy SA(s)d	CB,VL,E160,AM4*
Feb 12 1983	12.5"	24mm	VDIF,VF,ML,3B*S AROUND GAL,SBM,KNTS SUSP,OVAL-PATCHY	
H241-2	NGC 57	Psc	Galaxy E	F,S,R,SBM
Sep 27 2013	36"	17mmT4	PB,ML,R,LARGE BNUC,FAINT HALO,GMBM,HISB,R=G	
H241-3	NGC 2073	Lep	Galaxy SA(rs)0-:	EF,VS,R,GBM
Nov 22 2006	12.5"	12mmT4	MF,MS,R,LARGE FNUC,R=F	
H242-1	NGC 2681	UMa	Galaxy (R')SAB(rs)0/a	VB,VL,VG,VSMBM*10
Dec 03 1980	12.5"	24mm		
Mar 15 1985	12.5"	16mm	SAME	
Oct 16 1982	12.5"	16mm	MB,MS,R,GMBM,BNUC,2F*S W,1F* E	
H242-2	NGC 7681	Peg	Galaxy S0^: sp	VF,S,IR,R,**F
Sep 05 2007	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
H243-1	NGC 4814	UMa	Galaxy SA(s)b	B,PS,VLE,VGBM
Mar 26 2006	31"	17mmT4	MB,ML,OVAL,SBNUC,MHISB,GMBM,SMALL R NUC,HISB MIDDLE,R=G	
H243-3	NGC 7436	Peg	Galaxy E	F,PS,F*ATT P,GBM
Sep 23 2003	31"	17mmT4	VF,PL,R,BRT STELL NUC,GMBM,5 GALAXIES INTERACTING,R=G	
H244-1	NGC 3619	UMa	Galaxy (R)SA(s)0+:	CB,CL,R,VGMBM
Mar 15 1985	12.5"	12mm	PF,MS,PATCHY,SMALL NUC,FAINTER THAN 3613,PAIR/3613	
Oct 22 1982	12.5"	16mm	R,DIF,MF,PS,FUZZY,SBM	
H244-2	NGC 7711	Peg	Galaxy S0	F,S,R,PSBM,STELLAR
Dec 03 2004	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,HISB MIDDLE,R=G	
H245-1	NGC 3642	UMa	Galaxy SA(r)bc:	PB,PL,R,VGBM
Mar 15 1985	12.5"	16mm	DIF,PF,PS,OVAL-PATCHY,SBM	
H245-2	NGC 234	Psc	Galaxy SAB(rs)c	F,PS,ILE,BM
Sep 28 2013	36"	17mmT4	MF,ML,OVAL,R,SMALL FNUC,GRANULAR AROUND HALO,SOMEWHAT HISB,MOD HISB MIDDLE,R=FG	
H245-3	NGC 1187	Eri	Galaxy SB(r)c	PF,CL,PME,GBM*16,R
Oct 24 1981	12.5"	12mm	DIF,MF,PL,F*IN GAL SUSP,L PATCH,OVAL,NNS IN 16MM	
Oct 31 1980	12.5"	24mm		
Sep 09 1980	12.5"	24mm		
H246-1	NGC 3683	UMa	Galaxy SB(s)c?	CB,PL,E
Mar 15 1985	12.5"	16mm	DIF,PF,PS,ELONG,UB,NND,NO *S,COMP TO NW = 3674	
H246-2	NGC 877	Ari	Galaxy SAB(rs)bc	PF,PL,LE,PGBM,
Oct 23 1982	12.5"	16mm	SAME	
Sep 10 1980	12.5"	24mm	N OF B* IN FOV	
Sep 23 2003	31"	17mmT4	VF,VL,OVAL,SMALL FNUC,SPR STR DET,PAIR=876,R=E	
Sep 24 1981	12.5"	24mm	NND,MF,MS,KNTY STR SUSP,13 MAG * IN S ARM	
H246-3	NGC 1353	Eri	Galaxy SB(rs)b:	PB,CL,IE,MBM
Oct 24 1981	12.5"	12mm	DIF,MF,PL,EDGE ON,F*N EDGE,UB,NND	

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H246-3	NGC 1353	Eri	Galaxy SB(rs)b:	PB,CL,IE,MBM
Oct 24 1981	12.5" 12mm	DIF,MF,PL,EDGE ON,F*N EDGE,UB,NND		
Oct 31 1980	12.5" 24mm	* AT EDGE OF GAL		
H247-1	NGC 3690	UMa	Galaxy IBm pec	PB,PS,VLE80,PGBM
Apr 03 2005	31" 17mmT4	VB,ML,OVAL,R,UB,NND,HISB,INTERACTING=IC694,PAIRS=PGC/MAC,R=G		
Apr 07 2008	31" 17mmT4	VB,PL,OVAL,UB,NND,HISB,PAIRS-IC694/PGC35345,R=G		
Mar 15 1985	12.5" 16mm	PF,PS,SLIGHTLY ELONG,2 NUC DET,INTERACTING GAL = IC 694,MOD HISB!!		
H247-2	NGC 7177	Peg	Galaxy SAB(r)b	PB,PS,R,BMN,R,*SP
Aug 10 2002	12.5" 9mmT6	VDIF,VF,PS,PATCHY,SLIGHTLY ELONG		
Aug 25 1982	12.5" 16mm	MB,PL,MOD HISB,F*S 1 GAL DIA,R,VMBM		
Jul 07 1981	12.5" 16mm	DIF,MF,PS,DIM HALO		
Jul 11 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 21 1984	12.5" 16mm	MB,PL,BNUC,R,BM,4F*S IN A LOOP STARTING TOWARDS S,MOD HISB		
H248-1	NGC 3894	UMa	Galaxy E4-5	B,PL,IR,PGMBM,P OF 2
Mar 15 1985	12.5" 12mm	PF,MS,OVAL,SBM,PAIR/3895		
H248-2	NGC 7280	Peg	Galaxy SAB(r)0+	F,CS,R,GBMS*,3*N,NF
Sep 18 1982	12.5" 16mm	DIF,MF,PS,BNUC,TRI OF *S TO N,GMBM,DIF HALO		
H248-3	NGC 1426	Eri	Galaxy E4	PF,S,LE,BM
Oct 24 1981	12.5" 12mm	MF,MS,FNUC,SBM,R,PAIR/1439		
H249-1	NGC 2742	UMa	Galaxy SA(s)c:	CB,CL,E90,ER
Mar 06 2003	12.5" 9mmT6	VB,VL,OVAL,NND,MOD HISB,PATCHY,SPR STR SUSP,R=E		
Mar 15 1985	12.5" 16mm	DIF,PF,PS,PATCHY-OVAL,NND,UB,3F*S TO S 1 GAL DIA		
Oct 16 1982	12.5" 16mm	TRI OF 3F*S OFF TO E		
Oct 16 1982	12.5" 24mm	DIF,MF,ML,UB,OVAL,SAME 24MM FIELD W/2768		
H249-2	NGC 7454	Peg	Galaxy E4	F,CS,LE,LBM,*11P1'
Aug 20 2003	31" 25mm	VB,VL,BNUC,VERY HISB,LARGE SOFT NUC,R=E		
Jul 29 2003	31" 25mm	VB,VL,ELONG,BNUC,VHISB,SMALL BRT NUC,R=E		
Sep 21 1984	12.5" 16mm	DIF,VF,VS,2F*S ON OUTER EDGES TO NW,PATCH-OVAL,SBM,SN?		
H249-3	NGC 1439	Eri	Galaxy E1	F,PS,GPMBM
Oct 24 1981	12.5" 12mm	DIF,PF,PS,SBM,R,STELL NUC,PAIR/1426		
H250-1	NGC 2768	UMa	Galaxy E6:	CB,CL,LE,PSBMLBN
Dec 03 1980	12.5" 24mm			
Mar 06 2003	12.5" 9mmT6	VB,VL,OVAL,BNUC,HISB,DUST EXPECTED,GMBM,STELL NUC,HISB MIDDLE,MOD HISB ARMS,R=E		
Mar 15 1985	12.5" 16mm	MB,PL,OVAL,PATCHY,MOD HISB TOWARDS MIDDLE,NO *S		
Oct 16 1982	12.5" 12mm	MB,ML,2F*S OFF TO S,2B*S ON BOTH SIDES,ELONG,MBM,TAPPERED,BNUC		
H250-2	NGC 7625	Peg	Galaxy SA(rs)a pec	PB,CS,R,SMBM
Jul 07 1981	12.5" 16mm	DIF,PF,ES,FAINT HALO,3*S 11 MAG SURROUND GAL		
Sep 10 1980	12.5" 24mm	FAINT,W OF B* IN FOV		
Sep 21 1984	12.5" 16mm	MB,PS,MOD HISB,PATCHY,UB		
H250-3	NGC 470	Psc	Galaxy SA(rs)b	PB,L,IR
Sep 07 1980	12.5" 24mm	EF,AVERTED VISION,COMP SUSP		
Sep 24 1981	12.5" 16mm	VDIF,MF,PS,PATCHY-OVAL,F*S TO N&S ON EDGE,F*S TO E,GAL TO E BY B*,PAIR/474		
H251-1	NGC 3945	UMa	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,2F*S N,1*W,HISB,R,SBM		
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,3F*S SURROUND OBJECT,R,VMBM,HISB MIDDLE		

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H251-1	NGC 3945	UMa	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,3F*S SURROUND OBJECT,R,VMBM,HISB MIDDLE		
H251-2	NGC 7448	Peg	Galaxy SA(rs)bc	PB,L,E173,VGBM,*F2'
Jul 07 1981	12.5" 24mm	DIF,MF,ML,FAINT ARM		
Jul 12 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	PF,LOC BETWEEN 2F*S		
Sep 10 1980	12.5" 24mm			
Sep 21 1984	12.5" 12mm	MF,PL,ELONG,MOD HISB,BETWEEN 2*S,SBM,NO *S		
H251-3	NGC 474	Psc	Galaxy SA(s)0^	PB,S,SMBM,F OF 2
Sep 24 1981	12.5" 16mm	MF,VS,DNUC,SMBM,LINE OF 3*S TO E,PAIR/470 AND ANOTHER		
H252-1	NGC 4041	UMa	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN
Feb 12 1983	12.5" 16mm	MF,MS,DNUC,R,SBM,PAIR/4036		
Mar 06 2003	12.5" 9mmT6	VB,PL,R,HISB,VERY LARGE NUC,VF* SUSP IN GAL,SMALL AREA (RING),FAINT ARMS,R=E		
H252-2	NGC 514	Psc	Galaxy SAB(rs)c	F,L,LE,VGLBM,**F
Oct 31 1980	12.5" 24mm	VDIF,SIMILAR TO M33		
Sep 24 1981	12.5" 16mm	PDIF,VF,VL,E OF B*,F* W SIDE,F* TO S SEVERAL GAL DIA,PATCHY,NND,UB		
H252-3	NGC 488	Psc	Galaxy SA(r)b	PB,L,R,SVMBM,*8F10'
Oct 29 1980	8" 24mm			
Oct 31 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm	B* CLOSE		
Sep 24 1981	12.5" 16mm	MB,ML,BNUC,VMBM,R,HISB,LINE OF 5*S TO S		
H253-1	NGC 4036	UMa	Galaxy S0-	VB,VL,E
Feb 12 1983	12.5" 16mm	MB,PL,EDGE ON,BNUC,CENTRAL BULGE,DUST LANE SUSP,BM,PAIR/4041		
Mar 06 2003	12.5" 9mmT6	VB,VL,BNUC,VBM,LARGE BRT NUC,HISB MIDDLE,TAPERED ENDS,R=E		
H253-2	NGC 660	Psc	Galaxy SB(s)a pec	PB,PL,E,BM,R
Sep 04 2002	12.5" 9mmT6	DIF,MF,PL,IRR IN SHAPE,KNTS SUSP,NND,PATCH		
H253-3	NGC 520	Psc	Galaxy Pec	F,CL,E137
Oct 29 1980	8" 24mm			
Oct 31 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm	EF,AVERTED VISION		
Sep 24 1981	12.5" 16mm	DIF,MF,ML,ELONG,NNS,UB,PATCHY AND KNTY STR SUSP,BRIGHTER IN 24MM		
H254-1	NGC 4605	UMa	Galaxy SB(s)c pec	B,L,VME118,GLBM
Mar 26 2006	31" 17mmT4	EB,VL,ELONG,UB,HISB PATCHES DET,* OFF ONE SIDE,CENTRAL BULGE,R=E		
H254-2	NGC 1134	Ari	Galaxy S?	F,S,IR,R
Oct 23 1982	12.5" 16mm	MV,MS,F*E EDGE,HISB,OVAL		
Sep 25 2003	31" 17mmT4	VB,VL,ELONG,VERY LARGE BNUC,GMBM,SHISB,PAIRS/10907/IC267,R=G		
H254-3	NGC 3044	Sex	Galaxy SB(s)c? sp	VF,VL,VME122
Feb 09 2013	36" 17mmT4	VF,VL,EDGE ON,NND,PA~110,SLIGHTLY TAPERED ENDS,HISB BUILDS TOWARDS MIDDLE,R=E		
H255-1	NGC 5308	UMa	Galaxy S0- sp	B,PL,ME57,PSMBMEN
Apr 03 2005	31" 17mmT4	PF,PL,EDGE ON,LARGE BNUC,HISB MIDDLE,DUST SUSP,TAPERED ENDS,BULGE,R=E		
H255-2	NGC 7742	Peg	Galaxy SA(r)b	CB,CS,GMBM,*12F72"
Jul 07 1981	12.5" 24mm	DIF,VF,MS,FAINT HALO		
Sep 10 1980	12.5" 24mm			
Sep 21 1984	12.5" 16mm	DIF,PF,MS,F* TO W SIDE,R,PATCHY,SBM		
H255-3	NGC 3156	Sex	Galaxy S0:	F,CS,R,PSBM,*9,10SF2
Nov 24 2006	12.5" 12mmT4	PB,ML,ELONG,OVAL,SMALL BNUC,MOD HISB,R=G		
H256-1	NGC 5322	UMa	Galaxy E3-4	VB,PL,IR,PSMBM

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H256-1	NGC 5322	UMa	Galaxy E3-4	VB,PL,IR,PSMBM
Apr 03 2005	31"	17mmT4	VB,VL,ELONG,OVAL,LARGE BNUC,HISB MIDDLE,* OR COMP OFF NUC,F* ON EDGE,SN?,R=E	
Feb 12 1983	12.5"	16mm	VB,ML,BNUC,R,BM,2F*S OFF IN A LINE	
H256-2	NGC 7743	Peg	Galaxy (R)SB(s)0+	PF,S,R,*14SF
Jul 07 1981	12.5"	24mm	DIF,VF,MS,FAINT HALO, A F* IS BY THE GAL	
Sep 10 1980	12.5"	24mm		
Sep 21 1984	12.5"	16mm	DIF,PF,PS,F* IN S ARM,R,SBM,SMALL NUC	
H256-3	NGC 2555	Hya	Galaxy SB(rs)ab	VF,CS,IF(35*INV)
Mar 08 2013	36"	17mmT4	MB,MS,OVAL,LARGE FNUC,F* OFF NUC,GMBB,R=FG	
H257-2	NGC 95	Psc	Galaxy SAB(rs)c pec	F,PL,R,GBM
Sep 24 1981	12.5"	16mm	VDIF,VF,VS,F* TO E 1 GAL DIA,NEC SUSPECTED,PATCHY	
H258-1	NGC 1491	Per	Nebula E	VB,S,IF,BM,R,*INV
Aug 10 2002	12.5"	25mm	PB,PL,MOD HISB,IRR IN SHAPE,BRT NEBULA,LARGE PATCH	
H258-2	NGC 1232	Eri	Galaxy SAB(rs)c	PB,CL,R,GBM,R
Oct 24 1981	12.5"	12mm	DIF,MF,PL,VF* W 1 GAL DIA,R,SPR STR SUSP,NND	
Oct 31 1980	12.5"	24mm		
Sep 09 1980	12.5"	24mm		
H260-1	NGC 2880	UMa	Galaxy SB0-	B,CS,R,MBM,AM ST
Apr 14 2004	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB,GRADUADLY MBM,PAIR=PGC26940,R=G	
Mar 15 1985	12.5"	12mm	DIF,PF,VS,OVAL-R,BM,LINE OF F*S TO N,B* OFF TO E	
H260-2	NGC 2916	Leo	Galaxy SA(rs)b?	F,S,VLE
Jan 20 2004	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,MOD HISB,BRT REGION OR * IN GAL,ARMS,PATCHY AREAS,R=E	
H260-3	NGC 863	Cet	Galaxy Sa	VF,R,BM,STELLAR
Oct 12 2007	31"	17mmT4	MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,F* OFF SIDE,R=G	
H261-1	NGC 1931	Aur	Open Cluster I 3 p n	VB,L,R,B***IN M
Aug 21 1982	12.5"	16mm	MF,PS,3F*S IN CENTER,GBM,OVAL,BRIGHT CENTRAL REGION	
H261-2	NGC 7137	Peg	Galaxy SAB(rs)c	F,PS,R,VGLBM,R
Aug 25 1982	12.5"	16mm	VF,MS,MOD HISB,OVAL-PATCH	
Jul 07 1981	12.5"	16mm	DIF,PF,ES,VERY FAINT HALO	
Sep 10 1980	12.5"	24mm		
Sep 21 1984	12.5"	16mm	DIF,MF,MS,R-OVAL,UB,MAYBE SMB,NO *S	
H261-3	NGC 941	Cet	Galaxy SAB(rs)c	VF,CL,R,F OF 2
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	DIF,PF,PL	
Sep 27 1981	12.5"	24mm	VDIF,OVAL,SBM,NND,PAIR/936	
H262-1	NGC 3682	Dra	Galaxy SA(s)0/a:?	CB,S,IR,SPMBMN
Apr 03 2005	31"	17mmT4	PB,MS,ELONG,LARGE BNUC,HISB MIDDLE,R=G	
H263-1	NGC 4128	Dra	Galaxy SA0: sp	CB,LE,BM
Mar 06 2003	12.5"	9mmT6	MB,MS,ELONG,FNUC,SMALL BRT NUC,MOD HISB MIDDLE,R=F	
H263-3	NGC 1409	Tau	Galaxy SAB0: pec	EF,STELLAR OR LE
Nov 20 2003	31"	17mmT4	DIF,MF,PS,OVAL,PATCH,UB,NND,ATTACHED TO NGC1410,R=F	
H264-1	NGC 4250	Dra	Galaxy SAB(r)0+	PB,S,R,PGBM
Feb 04 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
H264-2	NGC 2139	Lep	Galaxy SAB(rs)cd	F,S
Nov 22 2006	12.5"	12mmT4	MF,MS,OVAL,PATCH,UB,NND,SOMEWHAT HISB,R=G	
Oct 05 2002	12.5"	9mmT6	VDIF,MF,PL,PATCH,OVAL,F* OFF ONE SIDE	
H265-1	NGC 3182	UMa	Galaxy SA(r)a?	CB,CL,IR,VGBM

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H265-1	NGC 3182	UMa	Galaxy SA(r)a?	CB,CL,IR,VGBM
Apr 23 2003	12.5" 9mmT6	MB,PL,OVAL,BNUC,SHISB,LARGE BRT NUC AREA,R=G		
H265-2	NGC 2196	Lep	Galaxy (R')SA(s)a	PF,PS,VLE,PMBM,ST NR
Dec 03 1980	12.5" 24mm			
Oct 05 2002	12.5" 9mmT6	DIF,PF,PL,FNUC,OVAL,SBM		
H265-3	NGC 755	Cet	Galaxy SB(rs)b?	VF,PS,VLE
Nov 22 2006	12.5" 12mmT4	MB,ML,ELONG,PATCH,UB,NND,R=G		
H266-1	NGC 3206	UMa	Galaxy SB(s)cd	PB,CL,E,VGLBM
Apr 23 2003	12.5" 9mmT6	DIF,VF,FL,OVAL,R,PATHC,UB,NND,R=G		
Mar 15 1985	12.5" 16mm	NO FIND,CIRCLES HOT		
H266-2	NGC 2613	Pyx	Galaxy SA(s)b	CB,L,VME110
Oct 22 1982	12.5" 16mm	VDIF,VF,MS,ELONG,F FIELD *S AROUND OBJECT,NND,UB		
H266-3	NGC 731	Cet	Galaxy E+:	EF,STELLAR
Nov 22 2006	12.5" 12mmT4	MB,MS,R,LARGE BNUC,HISB MIDDLE,BM,R=G		
H267-1	NGC 3445	UMa	Galaxy SAB(s)m	CB,PL,IR,VGLBM,*NF2'
Feb 05 2005	31" 17mmT4	PB,ML,OVAL,PATCH,UB,NND,MOD HISB,PAIR=PGC32784,R=G		
Mar 15 1985	12.5" 16mm	DIF,PF,MS,BNUC,MOD HISB,OVAL-R,F* CLOSE BY,UB,3458 IN SAME FOV		
H267-2	NGC 1415	Eri	Galaxy (R)SAB(s)0/a	PB,S,LE,PGLBM,*SF
Oct 24 1981	12.5" 12mm	DIF,MF,MS,R,GBM,MOD HISB		
H267-3	NGC 2076	Lep	Galaxy S0+: sp	VF,PS,IE,BM
Nov 22 2006	12.5" 12mmT4	PF,ML,OVAL,PATCH,UB,NND,R=F		
H268-1	NGC 3458	UMa	Galaxy SAB0:	VB,VS,R,STELLAR
Mar 15 1985	12.5" 16mm	MF,PS,BNUC,R,BM,STELL NUC,3445 IN SAME FOV		
H268-2	NGC 3078	Hya	Galaxy E2-3	PB,S,R,MBM
Mar 29 2006	31" 17mmT4	MB,MS,OVAL,LARGE BNUC,* OFF NUC,GMBM,HISB MIDDLE,R=G		
H269-1	NGC 3488	UMa	Galaxy SB(s)c:	EF OR CB,VLE,PS,*13S
Apr 03 2005	31" 17mmT4	PB,ML,OVAL,LARGE FNUC SUSP,SOMEWHAT BM,R=G		
H269-2	NGC 3585	Hya	Galaxy E6	B,PL,E,VSMBMN,2B*TRI
Mar 29 2006	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,MHISB,GMBM,HISB MIDDLE,R=G		
H269-3	NGC 1993	Lep	Galaxy SA(rs)0-:	EF,VS,STELLAR
Nov 22 2006	12.5" 12mmT4	MB,MS,R,LARGE FNUC,GBM,MOD HISB MIDDLE,R=G		
H270-1	NGC 3610	UMa	Galaxy E5:	VB,PS,LE90,VSMBMSN
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,R,BM,SLIGHT TAPPERING DET		
Oct 22 1982	12.5" 16mm	PB,MS,BNUC,R,GMBM		
H270-2	NGC 718	Psc	Galaxy SAB(s)a	PB,S,IR,PSMBM
Oct 31 1980	12.5" 24mm			
Sep 24 1981	12.5" 16mm	MF,PS,DNUC,EF* SEVERAL GAL DIA TO W,SUDDENLY MBM,R,DIM HALO		
H270-3	NGC 2089	Lep	Galaxy SAB0-:	VF,ES,STELLAR
Nov 22 2006	12.5" 12mmT4	MB,MS,ELONG,LARGE FNUC,R=G		
H271-1	NGC 3613	UMa	Galaxy E6	VB,CL,ME305,SMBMN
Mar 15 1985	12.5" 12mm	PB,PS,BNUC,OVAL,SMBM,PAIR/3619		
Oct 22 1982	12.5" 16mm	MB,PS,BNUC,R,SMALL BNUC,GBM,PAIR/3619		
H271-2	NGC 741	Psc	Galaxy E0:	PF,S,R,POF2,POS102
Sep 24 1981	12.5" 16mm	DIF,MF,PS,COMP TO N SUSP,JUST W OF B * 3 GAL DIA,BARELY BM,CLASS E1		
H271-3	NGC 2283	CMa	Galaxy SB(s)cd	3OR4S*+NEB
Oct 05 2002	12.5" 9mmT6	DIF,PB,ML,F* ON BOTH ENDS,STELL NUC, OVAL,PATCH		
H273-1	NGC 4589	Dra	Galaxy E2	CB,L,LE,PGMBM
Feb 23 2006	31" 17mmT4	EB,VL,OVAL,LARGE BNUC,HISB,SEVERAL *S AROUND NUC ON EDGE,SMBM,R=E		

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H273-1	NGC 4589	Dra	Galaxy E2	CB,L,LE,PGMBM
Feb 23 2006	31"	17mmT4	EB,VL,OVAL,LARGE BNUC,HISB,SEVERAL *S AROUND NUC ON EDGE,SMBM,R=E	
H273-2	NGC 1070	Cet	Galaxy Sb	PF,S,IR,GBM
Sep 06 2002	12.5"	9mmT6	PB,PL,LARGE CENTRAL BULGE,GBM,MOD HISB	
H274-1	NGC 4648	Dra	Galaxy E3	PB,CS,R,GBM,**P
Feb 23 2006	31"	17mmT4	PB,PL,R,LARGE BNUC,HISB MIDDLE,GRADUALLY MBM,R=G	
H274-2	NGC 1153	Cet	Galaxy S0+?	F,VS,ILE,SBM,ER
Nov 22 2006	12.5"	12mmT4	MF,MS,OVAL,LARGE FNUC,R=F	
H274-3	NGC 3981	Crt	Galaxy SA(rs)bc	VF,PL,IF
Mar 16 2009	31"	17mmT4	MB,ML,IRR,NND,UB,CENTRAL BULGE,F* OFF ONE TIP,R=G	
H275-1	NGC 4291	Dra	Galaxy E	PB,VS,R,LBM,3*F
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,SMALL BNUC,MOD HISB,2*S 90 DEG ON EDGE,PAIRS=4319/PGC39763/MAC,R=G	
H276-1	NGC 4319	Dra	Galaxy SB(r)ab	PB,PS,VLE,SBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,SMALL FNUC,SHISB,* OFF EDGE,GMBM,PAIRS=4291/PGC39763/MAC,R=G	
H276-2	NGC 4045	Vir	Galaxy SBa	PF,L,R,SBM,*SF
Apr 26 2003	12.5"	9mmT6	MB,ML,OVAL,BNUC,MOD HISB,LARGE BRT NUC,R=G	
H277-1	NGC 4386	Dra	Galaxy SAB0^:	PB,CL,LE,PSMBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,MOD HISB,BM,R=G	
H277-2	NGC 4073	Vir	Galaxy E+	F,PS,R,PGBM,NP OF 2
Apr 26 2003	12.5"	9mmT6	PB,ML,OVAL,BNUC,MOD HISB,SMALL BRT NUC,MANY COMP,FOV RICH IN GAL,R=G	
H277-3	NGC 2992	Hya	Galaxy Sa pec	CF,S,R,BM,STEL,P OF2
Mar 29 2006	31"	17mmT4	PB,PL,ELONG,LARGE SOFT NUC,SOMEWHAT HISB MIDDLE,R=G	
H278-1	NGC 4133	Dra	Galaxy SABb:	PB,CL,R,GMBM
Mar 06 2003	12.5"	9mmT6	DIF,R,PATCH,UB,R=F	
H278-2	NGC 955	Cet	Galaxy Sab: sp	PB,S,E,PSBM
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	ELONG,BNUC,BRT EQ REGION,CENTRAL BULGE,MINATURE M104,GBM,SOMEWHAT EDGE ON	
H278-3	NGC 2993	Hya	Galaxy Sa pec	CF,S,R,BM,STEL,F OF2
Mar 29 2006	31"	17mmT4	MB,ML,OVAL,SMALL BNUC,BM,R=G	
H279-1	NGC 4127	Cam	Galaxy SAc?	F,PL,VLE,GLBM
Mar 06 2003	12.5"	9mmT6	DIF,PF,MS,R,PATCH,UB,NND,R=F	
H279-2	NGC 1507	Eri	Galaxy SB(s)m pec?	VF,PL,ME,VLBM,ER
Oct 30 1981	12.5"	12mm	DIF,PF,ML,EDGE ON,SLIGHTLY HISB,NND,F*E,2*S W 1 GAL DIA,EDGES TAPPED	
H279-3	NGC 4035	Crv	Galaxy (R')SAB(rs)bc p	EF,PL,*9M NR
Apr 06 2008	31"	17mmT4	DIF,PF,MS,OVAL,PATCH,UB,NND,R=F	
H280-1	NGC 6217	UMi	Galaxy (R)SB(rs)bc	B,CL,LE,SLBM
Aug 13 1982	12.5"	16mm	PF,PS,DIF,STELL NUC,OVAL,SBM,NO *S	
Jun 22 2003	12.5"	9mmT6	PB,VL,R,FNUC,SHISB,FACE ON,SMALL FAINT NUC,DUST SUSP,FARMS,R=E	
H280-3	NGC 4724	Crv	Galaxy SB0-:	F,VS,R,STELLAR,NPOF2
Apr 06 2008	31"	17mmT4	MB,PS,OVAL,SMALL BNUC,VERY CLOSE COMP=4727,R=G	
H281-1	NGC 613	ScI	Galaxy SB(rs)bc	VB,VL,VME118,SBM,*NF
Oct 29 1980	8"	24mm		
Sep 09 1980	12.5"	32mm		
Sep 27 1981	12.5"	16mm	DIF,MF,ML,ELONG,DNUC,FARMS,11 MAG * NW,SBM,NUC DET,OBLONG IN SHAPE	
H281-3	NGC 4756	Crv	Galaxy SAB(s)0^?	VF,PS,RESOLVABLE
Apr 06 2008	31"	17mmT4	PB,VL,OVAL,LARGE BNUC,HISB MIDDLE,OTHERS CLOSE BY,R=G	

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H281-3	NGC 4756	Crv	Galaxy SAB(s)0⁺?	VF,PS,RESOLVABLE
Apr 06 2008	31"	17mmT4	PB,VL,OVAL,LARGE BNUC,HISB MIDDLE,OTHERS CLOSE BY,R=G	
May 03 1981	12.5"	16mm	DIF,PF,PS,FAINT HALO AROUND NUC	
H282-1	NGC 2977	Dra	Galaxy Sb:	CB,PL,IF,
Apr 14 2004	31"	17mmT4	MF,ML,OVAL,PATCH,LARGE FNUC REGION,SHISB MIDDLE,R=G	
H282-2	NGC 615	Cet	Galaxy SA(rs)b	PB,PL,ILE,GBM,*8NP10
Sep 10 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	DIF,MF,MS,ELONG,FNUC,STELL NUC,BRIGHTER IN EQ PLANE	
H282-3	NGC 5073	Vir	Galaxy SB(s)c? sp	VF,PL,PME135
May 30 2014	36"	17mmT4	MB,ML,EDGE ON,UB,NND,PA~130,R=FG	
H283-1	NGC 3218	Dra	Galaxy SB(s)bc:	CB,CL,ER,
Mar 06 2003	12.5"	9mmT6	MB,VL,ELONG,PATCH,NND,SOMEWHAT HISB,MANY F*S IN GAL,R=E	
H283-2	NGC 636	Cet	Galaxy E3	PB,VS,R,MBM,R
Sep 07 1980	12.5"	24mm	FAINT,ASSOC IN SMALL CLUSTER	
Sep 10 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	PF,PS,DNUC,GRAD MB,SMALL DIFFUSE NUC	
H284-1	NGC 3397	Dra	Galaxy (R)SA(r)b:	CB,VS,IF
Feb 05 2005	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,HISB MIDDLE,R=G	
H284-2	NGC 1035	Cet	Galaxy SA(s)c?	PF,L,ME,R,*17ATT SF
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	DIF,MF,MS,EDGE ON,14* S ARM,NND,OBLONG,UB	
H285-1	NGC 2976	UMa	Galaxy SAc pec	B,VL,ME152,ST INV
Apr 14 2004	31"	17mmT4	MB,VL,PATCH,UB,MOD HISB,VERY UNIQUE IN APPEARANCE,3*S AROUND EDGE,RECT,R=E	
Aug 22 1980	12.5"	24mm		
Dec 03 1980	12.5"	24mm	F* IN OUTER ARM REGION	
Mar 15 1985	12.5"	16mm	IRR,DIF,PF,VL,ELONG,PATCH,F* S EDGE BY NUC,UB	
Mar 27 1981	12.5"	24mm		
H285-2	NGC 1208	Eri	Galaxy SA(r)0/a?	PB,S,LE80,LBM
Sep 19 2012	36"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB,PAIRS=MAC'S,R=G	
H286-1	NGC 3077	UMa	Galaxy I0 pec	CB,CL,MBM,R WITH RAY
Aug 22 1980	12.5"	24mm		
Dec 03 1980	12.5"	24mm		
Mar 06 2003	12.5"	9mmT6	EB,EL,OVAL,BNUC,HISB,LARGE NUC AREA,MUCH HISB MIDDLE,R=E	
Mar 15 1985	12.5"	16mm	SAME	
Mar 27 1981	12.5"	24mm		
Oct 22 1982	12.5"	12mm	SAME	
Oct 22 1982	12.5"	16mm	MB,ML,BNUC,R-OVAL,HISB,GMBM,LARGE NUC AREA,	
H286-2	NGC 1241	Eri	Galaxy SB(rs)b	F,PL,R,VGLBM,*9N
Nov 17 2012	36"	17mmT4	PB,ML,ELONG,OVAL,LBNUC,MHISB,HALO,GRAD MBM,PAIR=1242,R=G	
Oct 24 1981	12.5"	12mm	VDIF,MF,PS,S OF 2B*S,R,NND,PATCHY,MOD HISB,OBLONG	
H287-1	NGC 3735	Dra	Galaxy SAc: sp	PB,L,ME130,MBM
Apr 04 2005	31"	17mmT4	PB,VL,EDGE ON,LARGE BNUC,DUST LANE,CENTRAL BULGE,GMBM,HISB MIDDLE,PAIR=MAC,R=E	
H288-1	NGC 2655	Cam	Galaxy SAB(s)0/a	VB,CL,LE90,GSVMBM
Dec 21 1981	12.5"	16mm	PB,ML,R,BM,HISB	
Oct 16 1982	12.5"	12mm	F*E 1 GAL DIA,ARMS MORE PRODOMENANT	
Oct 16 1982	12.5"	16mm	MB,MS,BNUC,GMBM,OBLONG,DIM HALO	
Sep 18 1980	12.5"	24mm		

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H288-1	NGC 2655	Cam	Galaxy SAB(s)0/a	VB,CL,LE90,GSVMBM
Sep 18 1980	12.5"	24mm		
H288-2	NGC 1376	Eri	Galaxy SA(s)cd	EF,PL,IR,BM,R
Oct 24 1981	12.5"	12mm	PF,ES,S OF *,VERY STELL,SLIGHTLY DIF AROUND EDGES,BRT CENTRAL REGION	
H288-3	NGC 2566	Pup	Galaxy (R')SB(rs)ab p:	VF,CL,ER
Nov 24 2006	12.5"	12mmT4	MF,ML,OVAL,UB,SMALL BNUC,PAIRS=IC2311/PGC23291,SOMEWHAT HISB,R=G	
H289-2	NGC 1888	Lep	Galaxy SB(s)c pec	PB,PL,R,R
Nov 21 2006	12.5"	12mmT4	MF,ML,ELONG,UB,NND,INTERACTING=1889,R=F	
H290-2	NGC 1357	Eri	Galaxy SA(s)ab	PF,PL,R,LBM,*9NF
Oct 24 1981	12.5"	12mm	MF,ML,16MM-PATCHY,SBM,BETWEEN 2*S,OVAL SHAPE	
Oct 31 1980	12.5"	24mm	BETWEEN 2*S APPROX 10-11TH MAG	
H291-2	NGC 1421	Eri	Galaxy SAB(rs)bc:	F,CL,ME0,R
Oct 24 1981	12.5"	12mm	DIF,MF,ML,EDGE ON,UB,NND	
Oct 31 1980	12.5"	24mm	EDGE ON,IMPRESSIVE!!	
Sep 09 1980	12.5"	24mm		
H292-2	NGC 1832	Lep	Galaxy SB(r)bc	PB,IR,MBM,C*NF1'
Oct 24 1981	12.5"	12mm	DIF,MF,ML,W OF B*,NND,OVAL,UB,24MM-SBM,MOD HISB	
Oct 31 1980	12.5"	24mm		
H293-2	NGC 3091	Hya	Galaxy E3:	PB,PS,IR,BM,P OF 2
Mar 16 2009	31"	17mmT4	PB,ML,ELONG,LBNUC,GMBM,HISB MIDDLE,CLOSE COMP OFF ONE EDGE=PGC28922,R=G	
H293-3	NGC 3068	Leo	Galaxy S0-: pec	EEF,ES,STELLAR,()
Mar 20 2007	31"	17mmT4	MB,MS,R,LARGE BNUC,VERY CLOSE COMP=MAC,SOMEWHAT HISB MIDDLE,R=F	
H295-2	NGC 4024	Crv	Galaxy SAB0-	F,VS,IF,BM
Mar 22 2004	12.5"	12mmT4	MF,MS,OVAL,LARGE BNUC,HOD HISB MIDDLE,R=G	
May 03 1981	12.5"	24mm	PB,PS,BNUC	
H295-3	NGC 2783	Cnc	Galaxy E	VF,VS,R,2PB* SP
Dec 28 2008	31"	17mmT4	MB,MS,LF NUC,ALMOST TOUCHING PGC26004,HICKSON GROUP R=F	
H296-2	NGC 4027	Crv	Galaxy SB(s)dm	GCL,PF,PL,R,RR,ST16
Apr 06 2008	31"	17mmT4	MB,ML,OVAL,MOD HISB,V*OUTTER EDGE,LG CENTRAL REGI,PATCHY	
May 03 1981	12.5"	16mm	NUC,MBM,PAIR=4027A,R=G	
			DIF,PB,PL,DNUC,FAINT HALO	
H297-3	NGC 2893	Leo	Galaxy (R)SB0/a	VF,S,R,VSBM*12
Jan 20 2004	31"	17mmT4	PB,PS,OVAL,SMALL BNUC,HISB MIDDLE,GMBM,R=G	
H298-2	NGC 4727	Crv	Galaxy SAB(r)bc pec:	F,PL,R,LBM,SF OF 2
Apr 06 2008	31"	17mmT4	MB,ML,OVAL,MOD HISB,VERY CLOSE COMP=4724,VERY LARGE FAINT NUC,R=G	
H298-3	NGC 2918	Leo	Galaxy E	VF,CS,R,SBMN
Jan 20 2004	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,MOD HISB,GMBM,R=G	
H301-2	NGC 4984	Vir	Galaxy (R)SAB(rs)0+	B,PL,R,PSMBM
Mar 22 2004	12.5"	12mmT4	MB,ML,R,LARGE BNUC,SHISB,HISB MIDDLE,GMBM,R=G	
H302-2	NGC 2481	Gem	Galaxy S?	F,S,LE,BM,ER
Dec 06 2002	12.5"	9mmT6	MF,PL,ELONG,BM,MOD HISB,CLOSE PAIR/2480	
H304-2	NGC 2316	Mon	Nebula E+R	PF,S,R,R,S ST INV
Oct 05 2002	12.5"	9mmT6	ELONG,MOD HISB,DIF NEBULA,APPEARS AS AN IRR GALAXY	
H306-2	NGC 5306	Vir	Galaxy S0 pec?	VF,VS,R,R
May 18 2007	31"	17mmT4	VB,ML,VLBNUC,2 VERY CLOSE COMP=PGC'S OPPOSITE SIDES,MOD HISB MIDDLE,R=G	
H306-3	NGC 5056	Com	Galaxy Scd:	CF,CS,R,SP OF 2
Mar 22 2004	12.5"	12mmT4	VF,MS,PATCH,UB,NND,PAIR=5057,R=P	
H307-3	NGC 5057	Com	Galaxy S0	CF,CS,R,NF OF 2

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H307-3	NGC 5057	Com	Galaxy S0	CF,CS,R,NF OF 2
Mar 22 2004	12.5"	12mmT4	VF,MS,PATCH,UB,NND,PAIR=5056,R=P	
H308-3	NGC 5065	Com	Galaxy Sd	VF,CS
Mar 22 2004	12.5"	12mmT4	VF,PS,PATCH,NND,R=P	
H309-2	NGC 5426	Vir	Galaxy SA(s)c pec	PF,CL,R,GMBM,SP OF 2
Apr 26 2006	31"	17mmT4	MF,MS,ELONG,LARGE FNUC,PATCHY,IRR IN SHAPE,FAINT HALO,PAIR=5427,R=G	
H309-3	NGC 5074	CVn	Galaxy SAb pec?	EF,VS
Jan 28 1982	12.5"	16mm	NO FIND	
H310-2	NGC 5427	Vir	Galaxy SA(s)c pec	PF,CL,R,NF OF 2
Apr 26 2006	31"	17mmT4	PB,VL,R,LFNUC,FAINT HALO,SPRIAL ARMS DET,PATCHY AREAS,MOD HISB MID,PAIR=5426,R=E	
H311-2	NGC 2986	Hya	Galaxy E2	PB,PS,IR,MBM
Mar 29 2006	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,* IN EDGE,MOD HISB MIDDLE,GMBM,PAIR=PGC27873/MAC,R=G	
H311-3	NGC 5819	UMi	Galaxy SAB(rs)bc	F,PL,TRI 2*
Apr 14 2004	31"	17mmT4	MF,PL,OVAL,PATCH,UB,NND,R=F	
H312-2	NGC 5068	Vir	Galaxy SAB(rs)cd	F,L,IR,BM
Apr 26 2006	31"	17mmT4	DIF,MF,PL,PATCH,NND,H2 REGION FROM NUC,PATCHY ARMS,LARGE AREA OF FAINT HALO,R=F	
H312-3	NGC 5836	UMi	Galaxy SB(rs)b	EF,VS,LE,2*INV
Jun 21 2003	12.5"	9mmT6	MF,ML,R,STELL NUC,SOMEWHAT HISB,F* IN CENTRAL NUC,PAIRS/5821/PGC53476,R=G	
H313-2	NGC 5084	Vir	Galaxy S0 sp	CB,CS,VLE90,BF
Apr 26 2006	31"	17mmT4	MB,ML,EDGE ON,LG BNUC,TAPPERED ENDS,MOD HISB MID,CENTRAL BULGE,PAIR=PGC46489,R=E	
H313-3	NGC 6011	UMi	Galaxy Sb	VF,S,E90,VS*F
Apr 23 2003	12.5"	9mmT6	MF,MS,FNUC,PATCH,F* EDGE OF GAL,R=F	
H314-2	NGC 5134	Vir	Galaxy SA(s)b?	F,PS,LE,VGBM
Apr 26 2006	31"	17mmT4	MB,MS,ELONG,LARGE BNUC,SOMEWHAT HISB MIDDLE,R=G	
H314-3	NGC 6094	UMi	Galaxy S0	VF,VS,LE
Apr 14 2004	31"	17mmT4	MF,MS,R,LARGE FNUC,R=F	
H315-3	NGC 2963	Dra	Galaxy SBab	VF,VS,R,BM
Apr 14 2004	31"	17mmT4	PAIRS/2957A/2957B/PGC28177	
H316-2	NGC 2371	Gem	Planetary Neb 3a+2	B,S,R,BMN,P OF DNEB
Dec 03 1980	12.5"	24mm		
Dec 28 2008	31"	17mmT4	PB,PL,C*15,2 HALVES,LOBS BOTH SIDES,SHISB,HOUR GLASS SH,OIII HELPS V LITTLE,R=E	
Feb 21 1984	12.5"	12mm	SAME	
Feb 21 1984	12.5"	12mm	SAME,SOUTH PART BRT THAN N,CENTRAL * DET,VF,VS	
Oct 23 1982	12.5"	12mm	MF,MS,2 PARTS EASILY DET,W SIDE BRT,BOTH MOD HISB,NSS	
Oct 23 1982	12.5"	12mm	SEE 2371	
Oct 31 1980	12.5"	16mm	DOUBLE NEBULA,2 NEB ON TOP OF EACH OTHER,NICE!!	
H316-3	NGC 3252	Dra	Galaxy SBd? sp	EF,PS,ME,R
Feb 04 2005	31"	17mmT4	MF,PL,EDGE ON,PATCH,UB,NND,R=G	
H317-3	NGC 3343	Dra	Galaxy E	PF,S,R,GBM
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,GMBM,R=G	
H318-2	NGC 2608	Cnc	Galaxy SB(s)b:	F,VLE,MBM,R
Dec 03 1980	12.5"	24mm		
Feb 21 1984	12.5"	12mm	SAME	
Oct 24 1981	12.5"	12mm	EDIF,VF,PS,PATCHY,UB,NND	
H318-3	NGC 3364	UMa	Galaxy SAB(rs)c	VF,L,R,VGBM,R,D*SF
Feb 05 2005	31"	17mmT4	PF,VL,OVAL,UB,NND,SHISB,PAIRS=PGC32218/MAC'S,R=G	

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H318-3	NGC 3364	UMa	Galaxy SAB(rs)c	VF,L,R,VGBM,R,D*SF
Feb 05 2005	31"	17mmT4	PF,VL,OVAL,UB,NND,SHISB,PAIRS=PGC32218/MAC'S,R=G	
H319-3	NGC 5620	UMi	Galaxy	EF,VS
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,UB,F* JUST TO THE NORTH,R=P	
H320-2	NGC 3106	LMi	Galaxy S0	F,S,R,SBM
Dec 26 2003	31"	17mmT4	MF,MS,R,SMALL BNUC,GMBM,R=F	
H320-3	NGC 3812	Leo	Galaxy E	CF,VS,R,1STOF3,*6SF
Mar 17 2010	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,HISB,GRAD BRTER MIDDLE,FAINT GRANULAR HALO,R=G	
H321-2	NGC 4136	Com	Galaxy SAB(r)c	F,VL,VGMBM
Feb 27 1982	12.5"	16mm	DIF,MF,PL,PATCHY,FACE ON,ARMS SUSP,UB,OVAL	
Jan 26 1982	12.5"	16mm	MB,ML,FNUC,CLOSE TO B*,STELL NUC,HISB,OVAL	
H321-3	NGC 3902	Leo	Galaxy SAB(s)bc:	F,PS,LE,VGLBM
May 09 2010	31"	17mmT4	MB,PL,OVAL,VERY LARGE FNUC,PATCHY,ALMOST UB,R=G	
H322-3	NGC 3944	Leo	Galaxy S0-:	PF,PS,R,PSBM
Mar 16 2010	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,GMBM,MOD HISB MIDDLE,R=FG	
H323-2	NGC 4283	Com	Galaxy E0	B,S,R,BM,2ND OF 3
Feb 12 1983	12.5"	16mm	VDIF,VF,VS,R,NND,UB,COMP TO W = 4278	
H323-3	NGC 4015	Com	Galaxy Double System	F,VS,E,MBM
Dec 28 2008	31"	17mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,BM,R=G	
Mar 17 2009	31"	17mmT4	VB,VL,R,LARGE BNUC,INTER=PGC37702,SMBM,MOD HISB MIDDLE,R=G	
H327-2	NGC 5089	Com	Galaxy S?	PF,PL,GBM
Jan 28 1982	12.5"	16mm	EEDIF,EF,ES,JUST VISIBLE	
Jan 28 1982	12.5"	24mm	MUCH EASIER TO IDENTIFY THAN IN 16MM	
H328-3	NGC 4670	Com	Galaxy SB(s)0/a pec:	PF,CS,R,BM,R,P OF 2
Mar 20 2009	31"	17mmT4	MB,MS,OVAL,BNUC,BRT BAR LIKE NUC,SOMEWHAT HISB MIDDLE,PAIR=4673,R=G	
H329-3	NGC 4673	Com	Galaxy E1-2	F,VS,R,SBM*10,F OF 2
Mar 20 2009	31"	17mmT4	MB,MS,OVAL,SM BNUC,SMBM,SOMEWHAT HISB MIDDLE,PAIR=4670,R=G	
H330-2	NGC 5653	Boo	Galaxy (R')SA(rs)b	PF,PS,R,BM
May 06 1981	12.5"	24mm	MF,VS,DIM HALO	
H330-3	NGC 3216	Leo	Galaxy E:	VF,PS,R,BM
Feb 25 2004	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,GMBM,HISB MIDDLE,PAIRS/SEVERAL MAC'S,R=G	
H331-2	NGC 5607	UMi	Galaxy Pec	PF,CS,IR,BM,ER
Jun 01 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,NND,R=P	
H332-2	NGC 5832	UMi	Galaxy SB(rs)b?	PB,CL,IR,BP,R
Apr 14 2004	31"	17mmT4	DIF,PF,VL,OVAL,PATCH,UB,NND,R=G	
H333-2	NGC 3065	UMa	Galaxy SA(r)0^	PF,VS,R,BM,*11NR
Mar 06 2003	12.5"	9mmT6	PB,ML,R,BNUC,LARGE BRT NUC,HISB MIDDLE,PAIR=3066,R=G	
Mar 15 1985	12.5"	12mm	VF,MS,OVAL,BM,3066 CLOSE BY,F*NE SEVERAL GAL DIA	
H333-3	NGC 3615	Leo	Galaxy E	CF,VS,SMBM,STEL,POF2
Feb 15 2004	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,BMBM,MOD HISB MIDDLE,PAIRS=3618/PGC34547,R=G	
H334-2	NGC 3066	UMa	Galaxy (R')SAB(s)bc p	VF,VS,VGLBM
Mar 06 2003	12.5"	9mmT6	MF,ML,PATCH,UB,NND,PAIR=3065,R=G	
Mar 15 1985	12.5"	12mm	EDIF,VF,MS,PATCHY,UB,NND,SLIGHTLY BIGGER THAN 3065,PAIR/3065	
H334-3	NGC 3618	Leo	Galaxy SABb:	VF,S,F OF 2
Feb 15 2004	31"	17mmT4	MF,ML,OVAL,PATCH,UB,NND,PAIRS=3615/PGC34547,R=F	
H335-2	NGC 3403	Dra	Galaxy SAbc:	PF,L,IE,VGBM
Dec 07 2005	31"	17mmT4	MB,PL,ELONG,PATCH,UB,NND,SHISB,F* OFF TIP,R=G	
Feb 23 2006	31"	17mmT4	PF,PL,ELONG,UB,NND,SHISB,D*S POINT TO GAL,R=G	

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H335-2	NGC 3403	Dra	Galaxy SAbc:	PF,L,IE,VGBM
Feb 23 2006	31"	17mmT4	PF,PL,ELONG,UB,NND,SHISB,D*S POINT TO GAL,R=G	
H335-3	NGC 3651	Leo	Galaxy E	CF,VS,R,BM,NP OF 2
Apr 26 2008	31"	17mmT4	MF,MS,ELONG,LARGE BNUC,GMBM,HICKSON 51 CLUSTER,R=F	
H336-2	NGC 3516	UMa	Galaxy (R)SB(s)0⁺:	PB,VS,IR,PSMBM*
Mar 15 1985	12.5"	12mm	PF,PS,R,BM,F* CLOSE BY SEVERAL GAL DIA	
H336-3	NGC 3653	Leo	Galaxy S0?	VF,VS,SF OF 2
Apr 26 2008	31"	17mmT4	MB,MS,ELONG,LARGE BNUC,SLIGHTLY MBM,MOD HISB MIDDLE,HICKSON 51 CLUSTER,R=F	
H337-2	NGC 3562	Dra	Galaxy E	PF,PS,LE,GBM,*70"NP
Apr 03 2005	31"	17mmT4	MB,PL,OVAL,LARGE BNUC,MUCH BM,MOD HISB MIDDLE,PAIRS=PGC'S/MAC,R=F	
H338-2	NGC 3629	Leo	Galaxy SA(s)cd:	CF,L,R,VGVLBM
Mar 03 1984	12.5"	12mm	VDIF,VF,MS,F* S EGDE,OVAL,UB,NND	
H338-3	NGC 3808	Leo	Galaxy SAB(rs)c: pec	VF,VS
Mar 29 2006	31"	17mmT4	MF,ML,OVAL,UB,NND,SHISB,PAIR=3808A/MAC,R=G	
H339-2	NGC 3689	Leo	Galaxy SAB(rs)c	PB,PL,LE,BM
Mar 03 1984	12.5"	12mm	MF,MS,ELONG,SBM,CIGAR SHAPE	
H339-3	NGC 3815	Leo	Galaxy Sab	CF,S,3RD OF 3
Mar 17 2010	31"	17mmT4	MB,ML,ELONG,LARGE FNUC,SHISB,R=G	
H340-3	NGC 3798	Leo	Galaxy SB0	F,CS,LE,STELLAR,R
Mar 17 2010	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,HISB,GRAD BRTER MIDDLE,FAINT GRANULAR HALO,R=G	
H340-3	NGC 3832	Leo	Galaxy SB(rs)bc	VF,PL,2SUSP NEB NR
Mar 17 2010	31"	17mmT4	PF,ML,OVAL,UB,NND,PATCHY,FACE ON,R=F	
H341-2	NGC 3826	Leo	Galaxy E	PF,S,R,PSBM,STELLAR
Mar 17 2010	31"	17mmT4	MF,MS,ELONG,OVAL,LARGE BNUC,GRAD BM,R=F	
H341-3	NGC 3911	Leo	Galaxy SB?	VF,S,P OF 2
May 09 2010	31"	17mmT4	PF,MS,PATCH,UB,NND,B* ON EDGE,R=F	
H342-2	NGC 3912	Leo	Galaxy SAB(s)b? pec	F,PL,R,PGBM
Feb 12 1983	12.5"	16mm	VDIF,VF,VS,UB,PATCHY,SAME 24MM FIELD WITH 3900	
Mar 03 1984	12.5"	12mm	SAME,NO *S	
H342-3	NGC 3951	Leo	Galaxy S?	VF,CS,VLE
Mar 16 2010	31"	17mmT4	MB,MS,OVAL,UB,NND,R=F	
H343-2	NGC 3983	Leo	Galaxy S0/a	CF,CS,R,PSBM
Mar 08 2010	31"	17mmT4	MF,MS.OVAL,LARGE BNUC,MOD HISB MIDDLE,R=F	
H344-2	NGC 4747	Com	Galaxy SBcd? sp pec	F,PL,LE
Mar 20 2009	31"	17mmT4	MB,PL,ELONG,ALMOST UB,LG F CENTRAL REGION W/FAINTER EXTENSIONS BOTH ENDS,R=G	
H344-3	NGC 4002	Leo	Galaxy S0?	VF,VS,R,N OF 2
Mar 08 2010	31"	17mmT4	MB,MS,ELONG,OVAL,LARGE FNUC,PAIR=4007,R=FG	
Mar 17 2010	31"	17mmT4	MB,ML,ELONG,OVAL,LARGE BNUC,GRAD BM,PAIR=4007,R=G	
May 14 2010	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,BM,SOMEWHAT HISB MIDDLE,PAIR=4007,R=FG	
H345-2	NGC 4789	Com	Galaxy SA0:	F,R,*9ATT1'N
May 17 2009	31"	17mmT4	MB,ML,LARGE BNUC,* OFF SIDE,MOD HISB MIDDLE,AGC1656,R=G	
H345-3	NGC 4003	Leo	Galaxy SB0	VF,VS,R,S OF 2
Mar 08 2010	31"	17mmT4	MB,MS,ELONG,OVAL,LARGE NUC,SHISB MIDDLE,PAIR=4002,R=FG	
Mar 17 2010	31"	17mmT4	MB,ML,ELONG,OVAL,LARGE BNUC,GRAD BM,PAIR=4002,R=G	
May 14 2010	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,BM,SOMEWHAT HISB MIDDLE,PAIR=4002,R=FG	
H346-2	NGC 4819	Com	Galaxy (R')SAB(r)a:	VF,PL,IF
May 19 2009	31"	17mmT4	PB,PL,R,LARGE BNUC,MOD HISB MIDDLE,BMBM,AGC 1656,R=G	

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H346-2	NGC 4819	Com	Galaxy (R')SAB(r)a:	VF,PL,IF
May 19 2009	31"	17mmT4	PB,PL,R,LARGE BNUC,MOD HISB MIDDLE,BMBM,AGC 1656,R=G	
H348-2	NGC 3327	LMi	Galaxy SA(r)b:	VF,S,R,GBM,VS*ATT
Feb 15 2004	31"	17mmT4	PB,ML,R,LARGE BNUC,SHISB,B* OFF ONE SIDE,R=G	
H349-3	NGC 3265	LMi	Galaxy E:	PF,S,R,PSBM,*SF
Feb 25 1982	12.5"	16mm	VDIF,VF,ES,FNUC,ALMOST STELL,STELL NUC DET,R	
H350-2	NGC 3710	Leo	Galaxy E	F,S,*7,8NF 5'
May 14 2010	31"	17mmT4	MF,MS,R,SBNUC,GMBM,R=F	
H351-2	NGC 3728	Leo	Galaxy Sb	F,S,R,BM
Mar 16 2010	31"	17mmT4	PF,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,R=G	
H351-3	NGC 3550	UMa	Galaxy Pec	F(VAR),S,R,BM,10F4
Apr 09 2008	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,GMBM,MOD HISB MIDDLE,PAIRS=AGC1185,R=F	
Mar 16 2009	31"	17mmT4	MF,PL,R,LARGE BNUC,GRAD BM,HISB MIDDLE,AGC,R=F	
H352-2	NGC 3772	Leo	Galaxy SBa	VF,S,E,R
Mar 16 2010	31"	17mmT4	MF,ML,ELONG,LARGE FNUC,SOMEWHAT HISB MIDDLE,R=F	
H352-3	NGC 3552	UMa	Galaxy E	EF,VS,2ND OF 4
Apr 09 2008	31"	17mmT4	PF,PS,OVAL.LARGE FNUC,SOMEWHAT HISB MIDDLE,PAIRS=AGC1185,R=F	
Mar 16 2009	31"	17mmT4	MF,PS,R,LARGE BNUC,MOD HISB MIDDLE,AGC,R=F	
H353-2	NGC 4162	Com	Galaxy (R)SA(rs)bc	B,L,IE,BM
Feb 27 1982	12.5"	16mm	DIF,MF,PS,B*S,F*N,MOD HISB,NNS,R	
H354-2	NGC 4213	Com	Galaxy E	CF,VS,R
Feb 27 1982	12.5"	16mm	VDIF,VF,ES,FNUC,STELL NUC,B* IN FIELD	
H354-3	NGC 4004	Leo	Galaxy Pec	F,VS,R,*12 NEAR
Mar 08 2010	31"	17mmT4	MB,ML,OVAL,UB,NND,SHISB,R=G	
H358-2	NGC 3274	Leo	Galaxy SABd?	F,PL,R,GLBM,D* F
Feb 25 1984	12.5"	12mm	VDIF,VF,MS,PATCHY,WIDE TRI OF *S AROUND OBJECT,UB,NND	
Jan 30 1981	12.5"	24mm	DIF,PF,PL,FNUC,FAINT HALO	
H358-3	NGC 4169	Com	Galaxy S0	F,S,1ST OF 4
Feb 27 1982	12.5"	16mm	PF,VS,BNUC,F*S 1 GAL DIA,SBM,R,CLOSE PAIR/4170/4175 IN TRI SHAPE	
Mar 17 2009	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,HISB MIDDLE,OTHERS PRESENT,EXCELLENT GROUP,R=E	
May 30 2014	36"	17mmT4	PB,ML,OVAL,LBNUC,GMBM,GRANULAR CORE,PAIRS=4171,4175,4174,R=GE	
H359-2	NGC 3277	LMi	Galaxy SA(r)ab	CB,CS,R,PGMBM
Dec 03 1980	12.5"	24mm		
Feb 25 1982	12.5"	16mm	DIF,MF,MS,FNUC,SBM,R	
H359-3	NGC 4174	Com	Galaxy S?	F,S,3RD OF 4
Mar 17 2009	31"	17mmT4	PB,PL,ELONG,BNUC,TIGHT NUC REGION,OTHERS PRESENT,EXCELLENT GROUP,R=G	
May 30 2014	36"	17mmT4	PB,PL,OVAL,SBNUC,PAIRS=4171,4175,4169,R=G	
H360-2	NGC 3380	LMi	Galaxy (R')SBa?	PB,PS,R,SBM
Feb 15 2004	31"	17mmT4	PB,ML,ELONG,SMALL BNUC,SOMEWHAT HISB MIDDLE,R=F	
H360-3	NGC 4175	Com	Galaxy S	F,ES,4TH OF 4
Feb 27 1982	12.5"	16mm	VF,VS,ELONG,FNUC,F*S,UB,SBM,COMP FORM TRI	
Mar 17 2009	31"	17mmT4	MB,ML,EDGE ON,LARGE FNUC,CENTRAL BULGE,OTHERS,EXCELLENT GROUP,R=G	
May 30 2014	36"	17mmT4	MB,PL,EDGE ON,SFNUC,SOMEWHAT SLIGHT CENTRAL BULGE,PAIRS=4171,4174,4169,R=G	
H361-2	NGC 3400	LMi	Galaxy SB(s)a:	PF,S,R,BM
Feb 15 2004	31"	17mmT4	MF,MS,ELONG,SMALL BNUC,GMBM,PAIR=MAC,R=F	
H362-2	NGC 3414	LMi	Galaxy S0 pec	B,PL,R,MBM
Dec 03 1980	12.5"	24mm		
Feb 15 2004	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,HISB,PAIRS=3418/MAC,R=E	

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H362-2	NGC 3414	LMi	Galaxy S0 pec	B,PL,R,MBM
Feb 15 2004	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,HISB,PAIRS=3418/MAC,R=E	
Oct 22 1982	12.5"	16mm	MF,MS,BNUC,R,SMBM,SMALL STELL BNUC	
H363-2	NGC 3418	LMi	Galaxy SAB(s)0/a:	CF,S,R,BM
Feb 15 2004	31"	17mmT4	MB,MS,ELONG,OVAL,SMALL BNUC,GBM,PAIRS=3414/MAC,R=F	
H364-2	NGC 3451	LMi	Galaxy Sd	F,PL,VLE,VLBM
Feb 15 2004	31"	17mmT4	MB,ML,OVAL,UB,NND,SHISB,R=F	
H365-2	NGC 3510	LMi	Galaxy SB(s)m sp	F,L,CE,*7NF8'
Feb 15 2004	31"	17mmT4	MB,PL,EDGE ON,UB,NND,CENTRAL BULGE,TAPPERED,UB NUC,R=G	
H366-2	NGC 3512	LMi	Galaxy SAB(rs)c	F,PS,R,PGBM,F OF 2
Dec 03 1980	12.5"	24mm		
H367-2	NGC 3713	Leo	Galaxy S0-:	F,CS,R,SBMN
May 14 2010	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,SOMEWHAT HISB MIDDLE,GBM,R=F	
H368-2	NGC 4008	Leo	Galaxy E5	PB,PS,E,PSBM,*INV N
Jan 30 1981	12.5"	24mm	DIF,PF,PS,FNUC,FAINT HALO	
Mar 03 1984	12.5"	12mm	VF,VS,FNUC,SMALL FAINT NUC,SLIGHTLY ELONG,F*N SEVERAL GAL DIA	
H369-2	NGC 4017	Com	Galaxy SABbc	F,L,E,GBFM
Dec 28 2008	31"	17mmT4	PB,PL,ELONG,OVAL,UB,NND,PATCHY,PAIR=4016,R=G	
H369-3	NGC 5251	Boo	Galaxy S?	VF,S,VLE
May 14 2010	31"	17mmT4	MF,PS,OVAL,R,SMALL FNUC,SOMEWHAT HISB MIDDLE,R=F	
H370-3	NGC 5263	CVn	Galaxy S?	CF,S,ME0,*9SP
Jun 01 2003	12.5"	9mmT6	PB,ML,ELONG,UB,NND,MHISB,R=F	
H371-3	NGC 6001	CrB	Galaxy Sc	VF,S,R
Jun 19 2004	31"	17mmT4	PB,ML,OVAL,VERY SMALL FNUC,MHISB,R=G	
H372-3	NGC 3883	Leo	Galaxy SA(rs)b	VF,CL
May 09 2010	31"	17mmT4	MF,ML,OVAL,R,SMALL FNUC,GRAD BM,LARGE FAINT HALO,R=F	
H373-2	NGC 4185	Com	Galaxy Sbc	CF,L,R,GBM
Feb 27 1982	12.5"	16mm	VDIF,VF,ML,F*SW EDGE,NND,UB,R,FACE ON	
H373-3	NGC 5768	Lib	Galaxy SA(rs)c:	F,R,BMFN,S*S
May 02 1981	12.5"	16mm	DIF,MF,VS,DNUC,MOD FAINT HALO,13TH MAG * WITHIN GAL BOUNDRIES	
H374-2	NGC 4196	Com	Galaxy S0?	PB,S,R,VSBM*
Feb 27 1982	12.5"	16mm	EDIF,VF,ML,F*W SIDE,OVAL,NND	
H374-3	NGC 5913	Ser	Galaxy SB(r)a	VF,PL,VLE,R
Apr 07 2008	31"	17mmT4	EDIF,EF,PL,PATCH,UB,NND,LOC IN BARRON FOV,R=P	
H375-3	NGC 3805	Leo	Galaxy S0-:	CB,CS,R,BM,R
Mar 17 2010	31"	17mmT4	PF,ML,OVAL,LARGE BNUC,GRAN BM,HISB MIDDLE,R=G	
H376-3	NGC 3821	Leo	Galaxy (R)SAB(s)ab	VF,CS,R,BM,BET2ST
Mar 29 2006	31"	17mmT4	MB,MS,R,SMALL BNUC,GMBM,MOD HISB MIDDLE,AGC 1367,R=G	
H377-3	NGC 3842	Leo	Galaxy E	F,S,R,VGLBM,3RD OF 5
Mar 29 2006	31"	17mmT4	MB,MS,R,LARGE BNUC,MHISB,GMBM,AGC 1367,R=G	
H378-2	NGC 4310	Com	Galaxy SB0	F,CL,LE,N OF 2
Apr 26 2003	12.5"	9mmT6	MB,ML,OVAL,PATCH,UB,SOMEWHAT HISB,R=G	
H378-3	NGC 3851	Leo	Galaxy E	EF,VS,R,5TH OF 5
May 09 2010	31"	17mmT4	MB,PS,R,SMALL BNUC,SUDDENLY MBM,R=F	
H379-3	NGC 3926A	Leo	Galaxy E/S0	EF,ES,VLE,ER,ST NR
May 09 2010	31"	17mmT4	PF,PS,SMALL FNUC,INTERACTING=3926B,SUDDENLY BM,CAN SEPERATE,PAIR=PGC37096,R=F	
H379-3	NGC 3926B	Leo	Galaxy E/S0	EF,ES,VLE,ER,ST NR

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H379-3	NGC 3926B	Leo	Galaxy E/S0	EF,ES,VLE,ER,ST NR
May 09 2010	31"	17mmT4	PF,PS,SMALL FNUC,INTERACTING=3926A,CAN SEPERATE,PAIR=PGC37096,R=F	
H380-3	NGC 3940	Leo	Galaxy E	VF,CS,R
Mar 16 2010	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,GRAD MBM,SHISB MIDDLE,R=F	
H381-3	NGC 3954	Leo	Galaxy E?	EF,R
Mar 16 2010	31"	17mmT4	MF,MS,R,SMALL BNUC,GMBM,HALO,R=F	
H382-2	NGC 4798	Com	Galaxy S0-:	PF,PS,GBM
May 17 2009	31"	17mmT4	MB,PL,R,LARGE FNUC,SOMEWHAT HISB MIDDLE,AGC1656,R=G	
H383-2	NGC 4816	Com	Galaxy S0-:	VF,PL
May 17 2009	31"	17mmT4	MB,ML,SMALL BNUC,F* OFF SIDE,SMBM,MOD HISB CENTRAL AREA,AGC1656,R=F	
May 18 2009	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,* OF SIDE,AGC 1656,R=G	
H384-2	NGC 4827	Com	Galaxy S0-	F,CL
May 19 2009	31"	17mmT4	MB,ML,R,LARGE BNUC,GMBM,SMALL BRT TIGHT CORE,AGC 1656,R=F	
H385-3	NGC 3862	Leo	Galaxy E	VF,VS,R,*17N
Mar 29 2006	31"	17mmT4	MB,ML,R,LARGE BNUC,BM,AGC 1367,R=G	
H386-2	NGC 4839	Com	Galaxy E+	F,PL,R
May 19 2009	31"	17mmT4	MB,ML,ELONG,OVAL,LARGE BNUC,MOD HISB MIDDLE,GRANULAR AREAS,AGC 1656,R=G	
H386-3	NGC 3860	Leo	Galaxy S?	VF,VS,RESOLVABLE
Mar 29 2006	31"	17mmT4	MB,ML,ELONG,OVAL,LARGE FNUC,SOMEWHAT HISB MIDDLE,AGC1367,R=G	
May 09 2010	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,GRAD BM,PAIRS=PGC'S/MAC'S,R=G	
H387-3	NGC 3875	Leo	Galaxy S0/a	VF,VS,RESOLVABLE
May 09 2010	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,GRAD MBM,HISB MIDDLE,CLOSE COMP=3873,R=G	
H388-2	NGC 4869	Com	Galaxy E3	CF,S,R,*7N
May 14 2009	31"	17mmT4	MF,MSR,F* JUST OFF SIDE,SMALL BNUC,AGC 1656,R=F	
H388-3	NGC 3884	Leo	Galaxy SA(r)0/a	CF,S,IR,GBM,R,*7SP6'
May 09 2010	31"	17mmT4	MB,ML,OVAL,R,LARGE FNUC,KEEP B* OUT OF FOV,GRAD MB,LARGE HALO AROUND NUC,PAIRS=OTHERS,R=G	
H389-2	NGC 4874	Com	Galaxy E+0	F,4869\$72 P
May 14 2009	31"	17mmT4	PB,PL,OVAL,MOD HISB MIDDLE,SMBM,LARGE BNUC,AGC 1656,R=G	
H389-3	NGC 3937	Leo	Galaxy S0-:	EF, VS, 3937 F 12S
Mar 16 2010	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,GRANULAR HALO,HISB MIDDLE,PAIRS=PGC37192/MAC'S,R=G	
H391-2	NGC 4884	Com	Galaxy E+4	CHIEF OF MULT NEB
May 14 2009	31"	17mmT4	VB,VL,OVAL,GMBM,LARGE BNUC,HISB,AGC 1656,R=G	
H392-3	NGC 4069	Com	Galaxy	VF,VS
Mar 08 2010	31"	17mmT4	VF,VS,OVAL,VF* IN GAL,PARIS=NGC'S,MAC,R=P	
H393-3	NGC 4074	Com	Galaxy S0: pec	EF,VS
Mar 08 2010	31"	17mmT4	MB,MS,R,SMALL BNUC,PAIRS=NGC'S/MAC,R=F	
H395-2	NGC 4944	Com	Galaxy S0/a? sp	F,S,R,BM,*9NF1'
Apr 07 2008	31"	17mmT4	MF,MS,ELONG,LARGE FNUC,SOMEWHAT HISB MIDDLE,PAIRS=PGC45162/MAC'S,R=F	
H395-3	NGC 4065	Com	Galaxy E	PF,R,F OF DNEB
Mar 08 2010	31"	17mmT4	MB,ML,OVAL,R,SMALL BNUC,GMBM,HISB MIDDLE,PAIRS=NGC'S/PGC/MAC,R=G	
H396-3	NGC 4076	Com	Galaxy S?	VF,VS
Mar 08 2010	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,SOMEWHAT BM,SLIGHTLY HISB MIDDLE,PAIR=MAC,R=F	
H399-2	NGC 5958	CrB	Galaxy S?	PF,PL,IR,BM,R
Jun 19 2004	31"	17mmT4	MF,MS,R,LARGE FNUC,MOD HISB MIDDLE,R=G	
H400-2	NGC 5910	Ser	Galaxy E?	VF,S,ER
Apr 07 2008	31"	17mmT4	PF,PS,OVAL,SMALL FNUC,HICKSON 74,R=F	
H401-2	NGC 5937	Ser	Galaxy (R')SAB(rs)b p	PB,PS,R,VGBM,3ST F

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H401-2	NGC 5937	Ser	Galaxy (R')SAB(rs)b p	PB,PS,R,VGBM,3ST F
Jun 01 2008	31"	17mmT4	MB,PL,OVAL,PATCH,UB,NND,SOMEWHAT HISB,VF* OFF NUC,R=G	
H402-2	NGC 6118	Ser	Galaxy SA(s)cd	VF,CL,CE45,R
May 31 1981	12.5"	16mm	DIF,VB,ML,FAINT HALO	
H403-2	NGC 3947	Leo	Galaxy (R)SB(rs)b	F,PS,IE,LBM,**P
Mar 16 2010	31"	17mmT4	MF,PL,LARGE FNUC,IRR,PATCHY,SOME SPIRAL STR SUSP,PAIR=MAC,R=G	
H404-2	NGC 4032	Com	Galaxy Im:	PF,PL,R,GBM,*12NF
Feb 27 1982	12.5"	16mm	VDIF,MF,MS,OVAL-PATCHY,SBM,F*W OF GAL	
H405-2	NGC 4158	Com	Galaxy SA(r)b:	F,PS,LE,BM,PB*SF
Feb 27 1982	12.5"	16mm	MF,PS,BNUC,HISB,GMBM,*W 1 GAL DIA	
H406-2	NGC 4336	Com	Galaxy SB0/a	VF,PL,IR,(BIN)
Apr 26 2003	12.5"	9mmT6	VB,PL,OVAL,UB,VERY HISB,R=E	
H407-3	NGC 5223	CVn	Galaxy E	F,CS,R,*10P,P OF 2
Feb 15 2004	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,HISB,GMBM,PAIRS=MACS,R=G	
H408-3	NGC 5228	CVn	Galaxy S0-:	VF,VS,R,F OF 2
Feb 15 2004	31"	17mmT4	PB,ML,R,LARGE BNUC,MOD HISB,R=G	
H409-2	NGC 4190	CVn	Galaxy Im pec	CF,PS,R,VGLBM,R
Jan 26 1982	12.5"	16mm	VDIF,VF,PL,EDGE ON,NND,UB	
H409-3	NGC 5240	CVn	Galaxy SB(s)cd?	VF,PL,R,LBM
Feb 15 2004	31"	17mmT4	PF,VL,OVAL,PATCH,UB,NND,R=G	
H410-3	NGC 5265	CVn	Galaxy Irr	F,CS,VLE,ER
Feb 15 2004	31"	17mmT4	MF,MS,R,UB,NND,SHISB,* OFF EDGE,R=G	
H412-2	NGC 4711	CVn	Galaxy Sb:	F,S,E,GLBM,ER
Feb 25 2004	31"	17mmT4	MF,PL,PATCH,UB,NND,IRR,R=G	
H413-2	NGC 4956	CVn	Galaxy S0	PB,CS,R,SMBM
Mar 22 2004	12.5"	12mmT4	R,LARGE BNUC,SBM,SOMEWHAT HISB MIDDLE,R=F	
H413-3	NGC 5445	CVn	Galaxy S0?	F,*13P
Feb 25 1982	12.5"	16mm	VDIF,VF,VS,ELONG,F*S EDGE,NND,CIGAR SHAPE,B* OFF NE,PAIR/5444	
H414-3	NGC 5529	Boo	Galaxy Sc: sp	CF,PL,VME110,VGVMBM
Mar 26 2006	31"	17mmT4	PB,VL,EDGE ON,UB,NND,LARGE CENTRAL REG,SLIGHT BULGE IN MIDDLE,PAIR=P50952,R=E	
H415-3	NGC 5579	Boo	Galaxy Sc	VF,CL,P OF 2
Mar 29 2006	31"	17mmT4	DIF,PF,VL,R,UB,NND,R=F	
H416-2	NGC 5440	CVn	Galaxy Sa	PF,CS,LE,BM,*11SP
Feb 25 1982	12.5"	16mm	VDIF,PS,MF,ELONG,FNUC,NND,F*S TIP,UB,SMBM	
H416-3	NGC 5589	Boo	Galaxy SBa	VF,S,R,NP OF 2
Mar 26 2006	31"	17mmT4	MB,ML,R,SBNUC,FAINT HALO,SOMEWHAT HISB MIDDLE,BM,PAIR=5590/PGC51285,R=F	
H417-2	NGC 5444	CVn	Galaxy E+:	PB,PL,IVLE,VSMBM
Jan 28 1982	12.5"	16mm	MF,PS,BNUC,R,GBM,F* OFF TO S,PAIR/5445	
H417-3	NGC 5590	Boo	Galaxy S0	CF,S,R,BM*,SF OF 2
Mar 26 2006	31"	17mmT4	PB,ML,R,LBNUC,FAINT HALO,SMBM,HISB MIDDLE,MOD HISB,PAIR=5589/PGC51285,R=G	
H418-2	NGC 5533	Boo	Galaxy SA(rs)ab	PB,R,VSMBM,20R3*INV
May 06 1981	12.5"	24mm	DIF,VF,PL,FAINT HALO	
H419-2	NGC 5544	Boo	Galaxy (R)SB(rs)0/a	F,PS,E80,DW/45 ORBIN
Mar 29 2006	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,VF* IN GAL,INTERACTING=5545,R=G	
H420-2	NGC 5614	Boo	Galaxy SA(r)ab pec	PB,S,R,SMBM
Mar 29 2006	31"	17mmT4	PB,PL,R,LARGE BNUC,HISB MIDDLE,COMP=5615/PAIRS=5613/5609,R=G	
May 06 1981	12.5"	24mm	MF,PS,DIM HALO	

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H420-2	NGC 5614	Boo	Galaxy SA(r)ab pec	PB,S,R,SMBM
May 06 1981	12.5" 24mm	MF,PS,DIM HALO		
H424-2	NGC 5347	CVn	Galaxy (R')SB(rs)ab	PF,CL,R,LBM
Jan 28 1982	12.5" 16mm	EDIF,PF,PS,ELONG,S OF * IN FIELD,NND		
Jan 28 1982	12.5" 24mm	EASIER TO DET THAN IN 16MM		
H425-2	NGC 5990	Ser	Galaxy (R')Sa pec?	VF,VS,R,GBM
Apr 06 2008	31" 17mmT4	MB,ML,LARGE BNUC,HISB MIDDLE,GRADUALLY BM,,PAIR=PGC55992,R=G		
H425-3	NGC 5233	CVn	Galaxy Sab	F,S,R,VS*NR
Feb 15 2004	31" 17mmT4	MB,MS,OVAL,SMALL BNUC,HISB MIDDLE,R=G		
H426-2	NGC 6962	Aqr	Galaxy SAB(r)ab	CF,S,R,BM
Aug 03 2002	12.5" 12mm	MB,PL,MOD HISB,LARGEST OF GROUP,PATCHY,OVAL,2 OF 6		
Sep 13 2009	31" 17mmT4	PB,PL,OVAL,LARGE BNUC,HISB MIDDLE,PAIRS=MANY OTHERS,R=G		
H426-3	NGC 7685	Psc	Galaxy SAB(s)c:	EF,CL,R,GBM,**NR
Sep 12 2012	36" 17mmT4	PF,ML,PATCH,UB,NND,R=F		
Sep 12 2012	36" 17mmT4	VF,PL,PATCH,UB,NND,PAIR=PGC71630,R=F		
H427-2	NGC 6964	Aqr	Galaxy E+ pec:	F,VS,R,BM,*14SF1/2'
Aug 03 2002	12.5" 12mm	DIF,PF,ML,F* OFF ONE SIDE,PATCH,UB,GALAXY GROUP, 1 OF 6		
Sep 13 2009	31" 17mmT4	PB,PL,OVAL,LARGE BNUC,HISB MIDDLE,PAIRS=MANY OTHERS,R=G		
H428-2	NGC 7311	Peg	Galaxy Sab	PF,S,R,PSBM,R
Sep 17 2003	31" 25mm	PB,PL,ELONG,BNUC,HISB,LARGE NUC AREA,GMBM,FAINT ARMS,R=E		
Sep 18 1982	12.5" 16mm	DIF,PF,MS,BNUC,R,GBM		
H429-2	NGC 7537	Psc	Galaxy SABc:	VF,CS,R,BM,SP OF 2
Sep 17 2009	31" 17mmT4	PB,ML,OVAL,UB,NND,MOD HISB,ENDS TAPPERED,PAIR=7541,EXCELLENT PAIR,R=G		
H429-3	NGC 274	Cet	Galaxy SAB(r)0- pec	PB,PS,SMBM,NP OF 2
Oct 13 2007	31" 17mmT4	VB,PL,R,LARGE BNUC,HISB,HALO AROUND NUC,PAIR=275,GMBM,R=G		
Sep 24 1981	12.5" 16mm	PF,VS,INTERACTING W/ 275,NUC BRTER THAN 275,CAN JUST BARELY SPLIT THE TWO		
H430-2	NGC 7541	Psc	Galaxy SB(rs)bc: pec	B,L,ME97,MBM,NF OF 2
Oct 30 1981	12.5" 24mm	FAINT,E1 GAL CLOSE BY		
Oct 31 1980	12.5" 24mm	FAINT ELIPTICAL COMP BESIDE OBJECT		
Sep 17 2009	31" 17mmT4	VB,EL,ELONG,UB,NND,HISB,IRR,ONE END THICKER THAN OTHER,PAIR=7537,EXCELLENT PAIR,R=E		
H430-3	NGC 273	Cet	Galaxy S0 sp	VF,VS
Oct 13 2007	31" 17mmT4	PB,PL,OVAL,LARGE BNUC,HISB,* OFF EDGE,R=G		
H431-2	NGC 7600	Aqr	Galaxy S0- sp	CF,S,R,PSMBM
Jul 10 1981	12.5" 16mm	SOMEWHAT EDGE ON,DIF,PF,PS,FAINT HALO		
H432-2	NGC 7721	Aqr	Galaxy SA(s)c	PF,CL,E12,VGBM
Jul 10 1981	12.5" 16mm	NO SPR STR,UB,DIF,PF,ML,ELONG		
Sep 09 1980	12.5" 24mm	SIMILAR IN APPEARANCE TO 7184,SHOWS SHAPE WELL		
H433-2	NGC 337	Cet	Galaxy SB(s)d	PF,L,E,GLBM,*10F21S
Sep 09 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm	DIF,MB,ML,HISB,NND,PATCHY,OVAL		
H433-3	NGC 790	Cet	Galaxy SA(r)0^?	CF,CS,R,BM
Nov 22 2006	12.5" 12mmT4	VF,PS,OVAL,PATCH,UB,LARGE FNUC,R=P		
H434-2	NGC 357	Cet	Galaxy SB(r)0/a:	F,S,IR,SBM,*14NF20"
Sep 27 1981	12.5" 16mm	DIF,MF,PS,OVAL,SBM,BRT H-2 REGIONS SUSP,PATCHY-DUSTY,F* SE		
H434-3	NGC 991	Cet	Galaxy SAB(rs)c	VF,CL,IF,VLBM
Sep 18 1980	12.5" 24mm			

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H434-3	NGC 991	Cet	Galaxy SAB(rs)c	VF,CL,IF,VLBM
Sep 18 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	VDIF,VF,PL.12 MAG * S ARM,FACE ON?,NND,UB,BETTER IN 24MM	
H435-2	NGC 788	Cet	Galaxy SA(s)0/a:	PF,PS,R,BM
Nov 22 2006	12.5"	12mmT4	MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,R=G	
Sep 09 1980	12.5"	32mm	EF	
Sep 27 1981	12.5"	16mm	DIF,PF,PS,GBM,OVAL,24MM DIF OVAL PATCH	
H435-3	NGC 7623	Peg	Galaxy SA0^:	F,VS,R,PSBM
Sep 27 1981	12.5"	16mm	VDIF,MF,PS,NNS,R,DIF HALO,4 COMP GAL	
H436-2	NGC 881	Cet	Galaxy SAB(r)c	F,PS,E,BM,2OR3*NR
Oct 12 2007	31"	17mmT4	MB,VL,PATCH,UB,NND,BRT * IN FOV,R=F	
H436-3	NGC 7816	Psc	Galaxy Sbc	VF,PL,R,GBM
Oct 12 2012	36"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,GMBM,PAIR=7818,R=FG	
H437-2	NGC 883	Cet	Galaxy SA(s)0-:	PF,PS,VLE,BM,D*NR
Oct 12 2007	31"	17mmT4	PB,ML,R,LARGE BNUC,MOD HISB,HALO AROUND NUC AREA,R=G	
H438-2	NGC 895	Cet	Galaxy Sc	F,VL,IR,GBM,DNEBW894
Sep 18 1980	12.5"	24mm		
H438-3	NGC 7665	Aqr	Galaxy Sm	EF,S,STELLAR
Oct 07 2010	31"	17mmT4	MF,MS,OVAL,R,UB,MOD HISB,R=F	
H439-2	NGC 7619	Peg	Galaxy E	CB,PS,R,PSBM
Oct 04 2005	31"	17mmT4	VB,VL,R,LARGE BNUC,HISB,GMBM,PAIR=7619,R=E	
Oct 31 1980	12.5"	24mm	PAIR/7626	
Sep 07 1980	12.5"	24mm	COMP PRESENT,BOTH HAVE BNUC	
Sep 21 1984	12.5"	12mm	PF,PS,3 COMP DET,FORMS A TRI WITH A B* IN MIDDLE,R,BM,NO *S	
Sep 24 1981	12.5"	16mm	MF,PS,DNUC,R,GBM	
H440-2	NGC 7626	Peg	Galaxy E pec:	CB,PS,R,PSBM
Oct 31 1980	12.5"	24mm	PAIR/7619	
Sep 21 1984	12.5"	12mm	PF,PS,F* CLOSE BY,R-OVAL,SBM,PAIR/7619	
Sep 24 1981	12.5"	16mm	MF,PS,DNUC,COMP SUSP SE BY B*,SAME VIS APPAREANCE AS 7619,PAIR/7319	
H440-3	NGC 450	Cet	Galaxy SAB(s)cd:	VF,L
Sep 27 1981	12.5"	16mm	VDIF,MF,ML,ELONG,JUST N OF SMALL TRIANGLE,KEEP B* OUT OF FIELD,NND,UB	
H441-2	NGC 7634	Peg	Galaxy SB0	F,S,F**ATT
Oct 20 2006	31"	17mmT4	MF,MS,ELONG,LARGE BNUC,MOD HISB,F* OFF EDGE,R=F	
H441-3	NGC 560	Cet	Galaxy S0^ sp	VF,VS,IE,P OF 2
Sep 19 2009	31"	17mmT4	MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,PAIR=564,R=G	
H442-2	NGC 7364	Aqr	Galaxy S0/a pec:	F,S,R,PSBM
Sep 02 2005	31"	17mmT4	MF,MS,ELONG,LARGE BNUC,GMBM,BM,MOD HISB MIDDLE,R=G	
H442-3	NGC 564	Cet	Galaxy E	VF,VS,IF,F OF 2
Sep 19 2009	31"	17mmT4	MB,ML,LARGE BNUC,MOD HISB MIDDLE,PAIR=560,R=G	
H443-2	NGC 7391	Aqr	Galaxy E:	CF,CS,R,SBM*13,*NP
Sep 04 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,FAINT HALO,R=G	
H444-2	NGC 227	Cet	Galaxy S0- pec:	F,PL,LBM
Sep 10 1980	12.5"	24mm		
Sep 24 1981	12.5"	16mm	VF,ES,B * LIKE NUC,NO *S ASSOCIATED	
Sep 24 1981	12.5"	16mm	VF,ES,B* LIKE NUC,NO *S ASSOCIATED	
H445-2	NGC 245	Cet	Galaxy SA(rs)b pec?	F,PS,IF,ER
Oct 31 1980	12.5"	24mm		
Sep 24 1981	12.5"	16mm	VDIF,PF,BS,2 F*S TO S 1 GAL DIA,NND,UNIFORM BRIGHNESS,PATCHY	

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H445-2	NGC 245	Cet	Galaxy SA(rs)b pec?	F,PS,IF,ER
Sep 24 1981	12.5" 16mm		VDIF,PF,BS,2 F*S TO S 1 GAL DIA,NND,UNIFORM BRIGHTNESS,PATCHY	
H446-2	NGC 271	Cet	Galaxy (R')SB(rs)ab	PF,S,LE,PSBM,*8F5S
Oct 13 2007	31" 17mmT4		PB,PL,OVAL,LARGE BNUC,HISB,B* CLOSE BY,SOME BAR SUSP,R=G	
H446-3	NGC 1358	Eri	Galaxy SAB(r)0/a	VF,S,BET2*
Oct 24 1981	12.5" 12mm		DIF,PF,PS,R,SBM	
Oct 31 1980	12.5" 24mm			
H447-3	NGC 1924	Ori	Galaxy SB(r)bc	VF,PL,IR,ST NR
Oct 01 2005	31" 17mmT4		DIF,PF,ML,PATCH,NND,VF* ON EDGE,R=F	
H448-2	NGC 545	Cet	Galaxy SA0-	STELLAR,P OF DNEB
Sep 18 2009	31" 17mmT4		MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,AGC 194,R=G	
H448-3	NGC 2110	Ori	Galaxy SAB0-	EF,CS,LE,PSLBM,ER
Dec 07 2005	31" 17mmT4		PB,MS,OVAL.LARGE BNUC,MOD HISB MIDDLE,R=G	
H449-2	NGC 547	Cet	Galaxy E1	STELLAR,F OF DNEB
Sep 18 2009	31" 17mmT4		MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,AGC 194,R=G	
H449-3	NGC 1114	Eri	Galaxy SA(r)c	PF,PL,PME,GLBM
Sep 06 2002	12.5" 9mmT6		EDIF,PF,PL,ELONG,UB,NND	
H450-2	NGC 7443	Aqr	Galaxy SB(s)0+: sp	F,VS,VLE,SMBM,ER,N-2
Sep 04 2005	31" 17mmT4		PB,PL,ELONG,LARGE BNUC,HISB MIDDLE,PAIR=7444,R=G	
H451-2	NGC 7444	Aqr	Galaxy SB(r)0^? sp	F,VS,VLE,SMBM,ER,S-2
Sep 04 2005	31" 17mmT4		PB,VL,ELONG,LARGE BNUC,HISB MIDDLE,PAIR=7443,R=G	
H452-2	NGC 210	Cet	Galaxy SAB(s)b	B,PS,R,PSBM,R,*11P2'
Sep 09 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 24 1981	12.5" 16mm		MB.PL,DNUC,GBM,F * W 1 GAL DIA,S OVAL,PAIR W 178 IN 24 MM	
H452-3	NGC 7156	Peg	Galaxy SAB(rs)cd:	F,PL,R,BM,R
Aug 10 2002	12.5" 9mmT6		VDIF,VF,PL,OVAL,UB,NND	
H453-2	NGC 7393	Aqr	Galaxy SB(rs)c pec	VF,PL,LE,VGBM,R
Sep 04 2005	31" 17mmT4		MB,PL,PATCH,UB,NND,MOD HISB,R=G	
H453-3	NGC 1762	Ori	Galaxy SA(rs)c:	VF,VS
Sep 06 2002	12.5" 9mmT6		DIF,PF,MS,OVAL,STELL NUC,SBM,MOD HISB	
H454-2	NGC 7576	Aqr	Galaxy SA(r)0+	F,S,SMBM
Nov 11 2009	31" 17mmT4		MB,ML,OVAL,LARGE BNUC,GRANULAR HALO AROUND NUC,R=G	
H455-2	NGC 1417	Eri	Galaxy SAB(rs)b	PF,PL,LE,LBM,*SF
Oct 24 1981	12.5" 12mm		VDIF,MF,PS,N OF F*,UB,FNUC DET	
H455-3	NGC 1073	Cet	Galaxy SB(rs)c	VF,L,LBM,ER
Sep 09 1980	12.5" 32mm		EL,PF,JUST BELOW SMALL TRI OF *S	
Sep 18 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm		VDIF,MF,VL,SBM,R-OVAL,UB,NND,BETTER IN 24MM	
H456-3	NGC 36	Psc	Galaxy SAB(rs)b	VF,PS,IF
Dec 12 2012	36" 17mmT4		MF,MS,OVAL,R,SMALL FNUC,TOUCHING=PGC797,GRANULAR,R=F	
H457-3	NGC 864	Cet	Galaxy SAB(rs)c	EF,CL,R,GBM,*12SFATT
Oct 12 2007	31" 17mmT4		MB,ML,R,SMALL BNUC,B* OFF ONE EDGE,MOD HISB,BM,R=G	
Sep 18 1980	12.5" 24mm		B* IN CENTER	
Sep 27 1981	12.5" 16mm		MB,MS,OVAL,HISB,12 MAG * NE PART FOLLOWED BY 2F*S NE & N 1 GAL DIA,NND	
H458-2	NGC 1440	Eri	Galaxy SB0	PB,PS,R,SMBM*13
Oct 24 1981	12.5" 12mm		DIF,MF,MS,PATCHY,FNUC DET,OVAL,PAIR/1452	
H458-3	NGC 7252	Aqr	Galaxy (R)SA(r)0^:	F,S,R,ER

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H458-3	NGC 7252	Aqr	Galaxy (R)SA(r)0[^]:	F,S,R,ER
Jul 10 1981	12.5" 24mm	DIF,EF,VS,GBM,F* APPEARS TO BE IN THE GAL		
Sep 10 1980	12.5" 16mm			
H459-2	NGC 1452	Eri	Galaxy (R')SB(r)0/a	F,R,LBM
Oct 24 1981	12.5" 12mm	DIF,MF,PS,SAME DESC AS 1440,PAIR/1440		
H460-2	NGC 1461	Eri	Galaxy SA(r)0[^]	PB,S,LE,MBMN
Oct 30 1981	12.5" 12mm	DIF,MB,PS,BNUC,SLIGHTLY ELONG,UB IN NUC,MBM		
H461-2	NGC 521	Cet	Galaxy SB(r)bc	F,PL,R,GBM
Sep 27 1981	12.5" 16mm	DIF,MF,MS,DNUC,F*E SIDE,SMALL NUC,R,FACE ON,SLIGHTLY BM,PAIR/533		
H461-3	NGC 24	ScI	Galaxy SA(s)c	VF,CL,ME,GBM
Sep 04 2002	12.5" 16mm	PB,PL,EDGE ON,UB,MOD HISB,F* IN EDGE OF GAL		
H462-2	NGC 533	Cet	Galaxy E3:	PB,PL,R,GBM
Sep 27 1981	12.5" 16mm	MB,MS,BNUC,MBM,R,HISB IN NUC,PAIR/521		
H463-3	NGC 268	Cet	Galaxy SB(s)bc:	VF,PS,ILE,R
Oct 03 1981	12.5" 16mm	VDIF,VF,PS,NND,PATCHY,UB,F* SE SEVERAL GAL DIA		
Oct 03 1981	12.5" 24mm	SEEN BEST IN 24MM FOV		
H464-2	NGC 1550	Tau	Galaxy E-S0	VF,S,R,*13NR
Nov 20 2003	31" 17mmT4	VB,VL,R,LARGE BNUC,GMBM,HISB MIDDLE,MOD HISB,PAIR=IC366,R=E		
Oct 20 2006	31" 17mmT4	MB,PL,ELONG,LARGE BNUC,MOD HISB MIDDLE,PAIR=IC366,R=G		
H464-3	NGC 762	Cet	Galaxy (R')SB(rs)a	VF,S,LE,VGLBM
Nov 22 2006	12.5" 12mmT4	MF,PS,R,LARGE FNUC,R=F		
H465-2	NGC 1090	Cet	Galaxy SB(rs)bc	VF,PL,IR,BM
Sep 09 1980	12.5" 16mm	SAME FOV WITH 1087		
Sep 27 1981	12.5" 16mm	MDIF,MF,PL,FACE ON,NND,UB,OVAL SHAPE,PAIR/1087 AND ANOTHER		
H465-3	NGC 7432	Peg	Galaxy E	EF,S,R
Sep 23 2003	31" 17mmT4	PB,PL,R,LARGE BRT NUC,GMBM,MOD HISB,R=G		
H466-2	NGC 1087	Cet	Galaxy SAB(rs)c	PB,CL,LE,MBM
Oct 29 1980	8" 24mm			
Sep 09 1980	12.5" 24mm	PAIR/1090		
Sep 18 1980	12.5" 24mm			
Sep 27 1981	12.5" 16mm	MB,PL,OVAL,HISB,SBM,PAIR/1090 AND ANOTHER		
H466-3	NGC 7794	Peg	Galaxy S?	VF,PS,IR
Oct 01 2005	31" 17mmT4	PB,ML,OVAL,VERY FAINT SNUC,MOD HISB,R=G		
H467-2	NGC 7562	Psc	Galaxy E2-3	CB,PS,IR,PSBM
Sep 04 2002	12.5" 16mm	PF,PS,OVAL,GMBM,LARGE NEC AREA,PAIR/7562A/7557		
H468-2	NGC 7785	Psc	Galaxy E5-6	PB,PS,IR,PSBM,R,*8P
Sep 27 1981	12.5" 16mm	MF,MS,BNUC,NE OF 1 B*,HISB,GMBM		
H468-3	NGC 773	Cet	Galaxy SAB(r)a pec	CF,PL,E0,GLBM
Nov 22 2006	12.5" 12mmT4	PF,PS,OVAL,PATCH,UB,NND,R=F		
H469-2	NGC 7284	Aqr	Galaxy SB(s)0[^] pec	CF,CS,LE,R,D*INV
Sep 02 2005	31" 17mmT4	PB,ML,ELONG,LARGE BNUC,GMBM,HISB MIDDLE,INTERACTING=7285,R=G		
H469-3	NGC 1162	Eri	Galaxy E:	F,R,GLBM,STELLAR
Sep 06 2002	12.5" 9mmT6	PB,PL,OVAL,BM,LARGE BRT NUC,SMBM		
Sep 06 2002	12.5" 9mmT6	PF,PS,R,SEVERAL VF*S IN ARMS OF GAL,SMALL NUC REGION		
H470-2	NGC 1140	Eri	Galaxy IBm pec:	PB,S,R,STELLAR
Oct 24 1981	12.5" 12mm	VDIF,PF,VS,R,BETTER IN 16MM,NND,SMBM		
H471-2	NGC 137	Psc	Galaxy S0	F,IF,LBM
Sep 27 2013	36" 17mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,R=FG		

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H471-2	NGC 137	Psc	Galaxy S0	F,IF,LBM
Sep 27 2013	36"	17mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,R=FG	
H472-2	NGC 255	Cet	Galaxy SAB(rs)bc	F,PS,R,GBM
Sep 09 1980	12.5"	32mm	EDIF,BARELY VISIBLE	
Sep 10 1980	12.5"	24mm		
Sep 24 1981	12.5"	16mm	DIF,PF,PL,PATCHY,NND,NO *S	
H473-2	NGC 601	Cet	Galaxy SAB0- pec:	VF,VS,R,4'SF599
Nov 17 2012	36"	17mmT4	MB,MS,R,SBNUC,SHISB,CANNOT DETECT INTERACTING MAC0132-1210,R=F	
H473-3	NGC 7647	Peg	Galaxy E	EF,(CL),P A ROW OF ST
Oct 25 2006	31"	17mmT4	PB,ML,OVAL,LARGE FNUC,MOD HISB MIDDLE,ABELL CLUSTER 2589,R=G	
H474-2	NGC 873	Cet	Galaxy Sc pec:	F,PL,R,VGLBM
Oct 12 2007	31"	17mmT4	MB,PL,OVAL,R,UB,NND,HISB,R=G	
H474-3	NGC 924	Ari	Galaxy S0	EF,VS,IR
Oct 23 1982	12.5"	16mm	VF,VS,SBM,R,* IN GAL SUSP	
Sep 25 2003	31"	17mmT4	VB,PL,ELONG,LARGE BNUC,HISB MIDDLE,PAIR=PGC9313,R=G	
H475-3	NGC 1036	Ari	Galaxy Pec?	F,S,R,LBM
Oct 23 1982	12.5"	16mm	DIF,VF,PS,R,SBM	
Oct 30 2005	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,BAR LIKE NUC,HISB MIDDLE,R=G	
H476-2	NGC 7309	Aqr	Galaxy SAB(rs)c	VF,PL,R,GLBM,R
Jul 10 1981	12.5"	24mm	NO SHAPE DET,DIF,EF,MS	
H476-3	NGC 160	And	Galaxy (R)SA0+ pec	VF,VS,STELL,*8NP4'
Oct 05 2002	12.5"	9mmT6	PB,PL,FNUC,SBM,OVAL,SMALL NUC	
H477-2	NGC 7371	Aqr	Galaxy (R)SA(r)0/a:	VF,PL,R,LBM
Jul 10 1981	12.5"	16mm	R,NO ARMS,APPEARS SOMEWHAT BM	
H477-3	NGC 280	And	Galaxy SB?	EF,S,R,
Oct 05 2002	12.5"	9mmT6	EDIF,VF,VS,F* OFF TO ONE SIDE,PATCH,OVAL,UB,NND	
Sep 14 2012	36"	17mmT4	PF,PS,SMALL FNUC,IRR IN SHAPE,SOMEWHAT HISB,PAIRS=MAC'S,R=F	
H478-2	NGC 151	Cet	Galaxy SBbc	PF,PL,LE90,VGLBM
Sep 07 1980	12.5"	24mm	FAINT,LOC 157 FIRST	
Sep 10 1980	12.5"	24mm		
Sep 24 1981	12.5"	16mm	DIF,MB,ML,ELONG,F* OFF E SIDE,SBM	
H478-3	NGC 3099	LMi	Galaxy S	EF,S
Dec 26 2003	31"	17mmT4	VF,PS,PATCH,UB,NND,PAIR WITH OTHERS,R=P	
H479-2	NGC 191	Cet	Galaxy SAB(rs)c: pec	PB,PL,IE0,
Sep 17 2009	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,F* BETWEEN GALAXIES,PAIR=IC1563,R=G	
H480-2	NGC 217	Cet	Galaxy S0/a: sp	F,S,LE90,GLBM
Sep 04 2002	12.5"	9mmT6	MB,PL,EDGE ON,TAPPERED,UB,LARGE CENTRAL BULGE	
H480-3	NGC 4241	Vir	Galaxy SA(s)0+:	VF,L,VGBM,*7S
Apr 26 2003	12.5"	9mmT6	PB,PL,ELONG TO OVAL,BNUC,MOD HISB,PAIR/4165/4164,R=E	
H481-2	NGC 681	Cet	Galaxy SAB(s)ab sp	PF,CL,R,GLBM,S*P90"
Nov 22 2006	12.5"	12mmT4	MF,MS,OVAL,PATCH,UB,NND,VF* IN GAL,R=F	
Sep 27 1981	12.5"	16mm	EDIF,VF,VS,F*(14TH) MAG N ARM OF GAL,STELL NUC SUSP,VERY DIF-OVAL	
H481-3	NGC 4356	Vir	Galaxy Scd:	VF
May 30 2014	36"	17mmT4	MB,ML,EDGE ON,NND,PA~45,SOMEWHAT HISB,* JUST OF NUC,TAPPERED ENDS,R=FG	
H482-2	NGC 833	Cet	Galaxy (R')Sa: pec	F,S,R,1ST OF 4
Sep 12 2007	31"	17mmT4	MP,ML,ELONG,SMALL BNUC,SOMEWHAT HISB MIDDLE,HICKSON 16,R=G	
H483-2	NGC 835	Cet	Galaxy SAB(r)ab: pec	F,S,R,2ND OF 4
Sep 12 2007	31"	17mmT4	PB,ML,R,MBM,MOD HISB MIDDLE,MOD HISB MIDDLE,HICKSON 16,R=G	

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H483-2	NGC 835	Cet	Galaxy SAB(r)ab: pec	F,S,R,2ND OF 4
Sep 12 2007	31"	17mmT4	PB,ML,R,MBM,MOD HISB MIDDLE,MOD HISB MIDDLE,HICKSON 16,R=G	
H483-3	NGC 4464	Vir	Galaxy S?	F,VS,R,PGBM
Mar 16 2010	31"	17mmT4	MB,MS,R,SMALL BNUC,PAIR=4472,R=G	
H484-2	NGC 838	Cet	Galaxy SA(rs)0^ pec:	VF,VS,R,3RD OF 4
Sep 12 2007	31"	17mmT4	PB,ML,R,LARGE BNUC,MBM,MOD HISB MIDDLE,HICKSON 16,R=G	
H485-2	NGC 839	Cet	Galaxy S0: pec sp	VF,PS,R,4TH OF 4
Sep 12 2007	31"	17mmT4	MB,ML,ELONG,PATCH,UB,NND,SHISB,HICKSON 16,R=G	
H487-2	NGC 945	Cet	Galaxy SB(rs)c	VF,L,IR,GLBM
Oct 12 2007	31"	17mmT4	DIF,VF,PL,OVAL,PATCH,NND,SHAPE CHANGES,PAIR=948,R=F	
Sep 12 2007	31"	17mmT4	MF,PL,OVAL,LARGE FNUC,BAR LIKE NUC,PAIR=948,R=G	
H488-2	NGC 1045	Cet	Galaxy SA0- pec?	F,S,R,BM
Sep 06 2002	12.5"	9mmT6	DIF,PB,PL,OVAL PATCH,SBM,SOMEWHAT HISB	
H489-2	NGC 932	Ari	Galaxy SAa	F,S,LE,3*INV
Oct 04 2005	31"	17mmT4	MB,MS,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
Oct 23 1982	12.5"	16mm	MF,PS,F* OFF E SIDE,CLOSE TO 924,SMBM,R,PAIR/938	
Sep 25 2003	31"	17mmT4	VB,PL,R,LARGE BNUC,HISB MIDDLE,SAME FOV WITH 938,R=G	
H489-3	NGC 4763	Crv	Galaxy SB(r)a:	VF,S,LBM
May 03 1981	12.5"	16mm	NO FIND	
H490-2	NGC 2770	Lyn	Galaxy SA(s)c:	F,L,ME150,R,2*N
Dec 07 2005	31"	17mmT4	VB,EL,EDGE ON,PATCH,UB,NND,SOMEWHAT HISB,SOME PATCHY ARMS SUSP,PAIR=PGC,R=E	
H490-3	NGC 1552	Eri	Galaxy SAB(r)0+?	CF,PS,LE,VGBM,*11SP
Nov 21 2006	12.5"	9mmT6	MF,PS,OVAL,LARGE FNUC,R=F	
H491-2	NGC 2968	Leo	Galaxy I0	PB,PL,LE,VGLBM,2ND-3
Dec 03 1980	12.5"	24mm		
Feb 25 1984	12.5"	12mm	DIF,PF,PS,PATCHY,OVAL,UB,NO *S,PAIR/2964	
Jan 29 2014	36"	17mmT4	PB,ML,OVAL,SMALL BNUC,MHISB,BRT BAR IN NUC SUSP,R=G	
Jan 30 1981	12.5"	24mm	DIF,VF,VS,FAINT NUC AND HALO	
H492-2	NGC 3067	Leo	Galaxy SAB(s)ab?	PB,PL,E106,GBM,*94'P
Feb 25 1984	12.5"	12mm	DIF,VF,VS,ELONG,NND,UB,PATCHY,NO *S	
Jan 30 1981	12.5"	24mm	PF,DIF,VS,FAINT HALO	
H493-2	NGC 3413	LMi	Galaxy S0 sp	F,S
Jan 08 2003	12.5"	9mmT6	PB,MS,BNUC,R,SLIGHTLY HISB,PAIR/3430/3424	
H494-2	NGC 3424	LMi	Galaxy SB(s)b:?	PF,PL,LE,SP OF 3
Jan 08 2003	12.5"	9mmT6	PB,ML,EDGE ON,STRUCTURE SUSP,DUST,F* IN EDGE,HISP,PAIR/3430/3413	
H494-3	NGC 4642	Vir	Galaxy SAB(rs)bc p sp	VF,CS,E
Mar 27 1982	12.5"	12mm	EDIF,VF,MS,SLIGHTLY BM,OVAL,UB	
H495-2	NGC 2906	Leo	Galaxy Scd:	F,PS,LE,GBM
Jan 20 2004	31"	17mmT4	VB,VL,ELONG,VERY BNUC,HISB,ARMS DET,PATCHY AREAS DET,R=E	
H496-2	NGC 4233	Vir	Galaxy S0^	PF,R,VSBSMN
Apr 25 1981	12.5"	24mm	DIF,PS,PS,FNUC,F HALO,PAIR/4224/4235	
H498-3	NGC 3495	Leo	Galaxy Sd:	VF,PL,ME
Mar 03 1984	12.5"	12mm	EDIF,EF,MS,ELONG,PATCHY,UB,NND,TRI OF *S AROUND GAL,F*E 1 GAL DIA	
H500-2	NGC 4535	Vir	Galaxy SAB(s)c	PF,VL,R
May 03 1981	12.5"	24mm	DIF,PB,EF,DARM,F* APPROX 11 MAG	
H500-3	NGC 1779	Eri	Galaxy (R')SAB(r)0/a?	PB,S,R,GPMBM
Sep 06 2002	12.5"	9mmT6	PB,ML,MOD HISB IN MIDDLE,OVAL PATCH,LARGE NUC	

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H500-3	NGC 1779	Eri	Galaxy (R')SAB(r)0/a?	PB,S,R,GPMBM
Sep 06 2002	12.5" 9mmT6	PB,ML,MOD HISB IN MIDDLE,OVAL PATCH,LARGE NUC		
H501-2	NGC 682	Cet	Galaxy SA0-	CF,S,R,GVLBM
Nov 22 2006	12.5" 12mmT4	MF,PS,OVAL,PATCH,LARGE FNUC,R=F		
H501-3	NGC 1670	Ori	Galaxy SA0^:	VF,VS
Sep 30 2005	31" 17mmT4	MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,R=G		
H502-2	NGC 1172	Eri	Galaxy E+:	PF,PL,R,PSBM
Oct 24 1981	12.5" 12mm	VDIF,PF,VS,BARELY VISIBLE IN 24MM,SMALL,R-OVAL,SMBM,NUC SUSP		
H502-3	NGC 1678	Ori	Galaxy SA0^ pec?	VF,S
Sep 30 2005	31" 17mmT4	MB,MS,ELONG,LARGE BNUC,PAIRS=PGG/MAC,R=G		
H503-2	NGC 1199	Eri	Galaxy E3:	CB,PS,IR,SMBM
Oct 24 1981	12.5" 12mm	DIF,MF,MS,BNUC,GBM,R		
Sep 16 2009	31" 17mmT4	EB,EL,R,LARGE BNUC,HISB,OTHERS,R=E		
H503-3	NGC 1729	Ori	Galaxy SA(s)c	VF,PL,2B*V NR
Oct 01 2005	31" 17mmT4	MB,PL,OVAL,SOME SPR STR SUSP,PATCHY,NND,MOD HISB,R=G		
H504-2	NGC 1209	Eri	Galaxy E6:	B,S,CE,PSBM
Oct 24 1981	12.5" 12mm	DIF,MF,PS,NEC DET,R,SIM TO 1199		
H505-2	NGC 2811	Hya	Galaxy SB(rs)a	PB,PS,E,PSMBM
Feb 12 1983	12.5" 16mm	DIF,PF,PS,ELONG,F*W,NND,TAPPERED ENDS,FIELD OF B*S		
Oct 22 1982	12.5" 16mm	MF,PS,SLIGHTLY ELONG,SBM,F* W SEVERAL GAL DIA		
H508-2	NGC 4033	Crv	Galaxy E6	PB,S,LE,BM
May 03 1981	12.5" 24mm	PF,PS,DNUC		
H509-2	NGC 4050	Crv	Galaxy SB(r)ab	F,CL,IR,LBM
May 03 1981	12.5" 24mm	DIF,VF,VL,DIM HALO		
H510-2	NGC 5037	Vir	Galaxy SA(s)a:	CF,PS,VLE,BM
Mar 22 2004	12.5" 12mmT4	MF,MS,ELONG,SMALL FNUC,F* IN TIP,SBM,PAIR=5044 AND OTHERS,R=F		
May 09 2010	31" 17mmT4	MB,ML,ELONG,EDGE ON,LFNUC,F* OFF TIP,ANOTHER VF* OPPOSITE TIP,MANY OTHERS,R=G		
H511-2	NGC 5044	Vir	Galaxy E0	PB,PL,R,BM
Mar 22 2004	12.5" 12mmT4	MB,ML,OVAL,PATCH,LARGE FNUC,SHISB MIDDLE,PAIR=OTHERS,R=G		
May 09 2010	31" 17mmT4	MB,ML,OVAL,VERY LARGE FNUC,SM HALO AROUND NUC,SMBM,NUC UB,SOMEWHAT HISB MIDDLE,MANY OTHERS,R=G		
H511-3	NGC 5845	Vir	Galaxy E:	VF,R
Mar 16 2010	31" 17mmT4	MB,MS,R,LARGE BNUC,SUDDENLY MBM,FAINT THIN OUTER HALO AROUND NUC,R=G		
H512-2	NGC 5049	Vir	Galaxy S0 sp	CF,S
Mar 22 2004	12.5" 12mmT4	MF,MS,SMALL FNUC,SOMEWHAT HISB MIDDLE,PAIR=5044 AND OTHERS,R=F		
May 09 2010	31" 17mmT4	MF,PS,LARGE BNUC,RECT SHAPE,SUDDENLY BM,MANY OTHERS,R=F		
H512-3	NGC 2513	Cnc	Galaxy E	F,S,R,PSMBM,R
Jan 24 2004	31" 17mmT4	MB,PL,LARGE BNUC,MOD HISB MIDDLE,PAIRS=2511/2510 AND MAC'S,R=G		
H513-2	NGC 5054	Vir	Galaxy SA(s)bc	F,PS,IR
Feb 12 1983	12.5" 24mm	EDIF,EF,VL,PATCH-OVAL,UB,NND		
H513-3	NGC 2914	Leo	Galaxy SB(s)ab	VF,S,R,BMN,F OF 2
Jan 20 2004	31" 17mmT4	MB,ML,R,LARGE BNUC,SHISB,GBM,PAIRS=2911,PGC27175,R=G		
H514-3	NGC 4703	Vir	Galaxy Sb sp	EF,CS,PME
Mar 27 1982	12.5" 12mm	EDIF,VF,VS,ELONG,STELL NUC SUSP,NO *S		
H516-2	NGC 1713	Ori	Galaxy E+:	F,S,R,BM
Oct 01 2005	31" 17mmT4	MB,PL,OVAL,LARGE FNUC,MOD HISB MIDDLE,PAIR=PGC'S/1709,R=G		
H517-2	NGC 4904	Vir	Galaxy SB(s)cd	PB,PS,R,BM
Mar 22 2004	12.5" 12mmT4	PF,MS,OVAL,PATCH,LARGE FNUC,SBM,R=F		

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H517-2	NGC 4904	Vir	Galaxy SB(s)cd	PB,PS,R,BM
Mar 22 2004	12.5"	12mmT4	PF,MS,OVAL,PATCH,LARGE FNUC,SBM,R=F	
H518-2	NGC 4227	CVn	Galaxy SAB0^:	F,VS,VLE,PSBM,SP OF2
Feb 27 1982	12.5"	16mm	VF,VS,FNUC,F*N EDGE,R,SBM,CLOSE PAIR/4229	
H518-3	NGC 3145	Hya	Galaxy SB(rs)bc	F,PL,R,VGSLBM
Mar 29 2006	31"	17mmT4	MB,PL,ELONG,OVAL,LARGE SOFT NUC,GMBM,R=G	
H519-2	NGC 4229	CVn	Galaxy S?	CF,VS,LE,PSBM,NF OF2
Feb 27 1982	12.5"	16mm	EDIF,EF,VS,STELL NUC SUSP,OVAL,CLOSE PAIR/4227	
H519-3	NGC 2948	Leo	Galaxy SBbc	VF,PL,VGBM
Feb 25 2004	31"	17mmT4	MB,ML,OVAL,SMALL FNUC,MOD HISB,SLIGHTLY BM,R=G	
H520-2	NGC 2765	Hya	Galaxy S0	VF,PL,E,GBM,ER
Mar 29 2006	31"	17mmT4	PB,PL,ELONG,SMALL BNUC,SHISB,DUST LANE SUSP,R=G	
H520-3	NGC 2863	Hya	Galaxy Sm	CF,S,E,BET2*12,16
Mar 29 2006	31"	17mmT4	MF,MS,OVAL,UB,NND,* ONE EDGE,FAINTER * OTHER SIDE,PAIRS=2868/IC2482,R=F	
H521-2	NGC 3611	Leo	Galaxy SA(s)a pec	PF,CS,IR,PSMBM,*NP3'
Mar 03 1984	12.5"	12mm	DIF,VF,VS,FNUC,R,BM,B* TO W	
H524-2	NGC 1618	Eri	Galaxy SB(r)b:	F,S,IF,LBM,2*SF
Sep 06 2002	12.5"	9mmT6	VDIF,BF,PL,ELONG,PATCH,KEEP B* OUT OF FOV,UB,PAIR/1622/1625	
H524-3	NGC 4700	Vir	Galaxy SB(s)c? sp	F,L,ME40,VLBM,B*P
Mar 27 1982	12.5"	12mm	DIF,MF,PL,EDGE ON,B* TO W,NND,UB	
H525-2	NGC 1638	Psc	Galaxy SAB(rs)0^?	F,PL,LE
Oct 30 1981	12.5"	12mm	DIF,MF,PS,BNUC,R,BM	
Oct 31 1980	12.5"	24mm		
H527-2	NGC 1682	Ori	Galaxy E/S0	VF,VS,1684F12S,*9S4'
Sep 30 2005	31"	17mmT4	PF,PS,R,LARGE BNUC,MOD HISB MIDDLE,PAIRS=NGC'S,R=F	
H528-2	NGC 1684	Ori	Galaxy E+ pec:	PF,PS,R,BM,*9SF
Sep 30 2005	31"	17mmT4	MB,ML,ELONG,BNUC,ELONG NUC OR BAR,HISB MIDDLE,PAIRS=NGC'S,R=G	
H532-3	NGC 3693	Crt	Galaxy (R')SA(r)b:	CF,S,E,GBM
Apr 26 2006	31"	17mmT4	MF,ML,EDGE ON,LARGE BNUC,MBM,FAINT TOWARDS ENDS,R=G	
H533-3	NGC 4114	Crv	Galaxy (R')SAB(rs)a:	CF,S,IR,GBM
Apr 06 2008	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,PAIR=MAC,R=F	
H534-2	NGC 5364	Vir	Galaxy SA(rs)bc pec	CF,L,R,GBM
Feb 12 1983	12.5"	16mm	DIF,VF,VL,R-OVAL,UB,B* CLOSE BY,PAIR/5363	
H534-3	NGC 4177	Crv	Galaxy SA(rs)c pec:	VF,PL,R,VGBM
Apr 06 2008	31"	17mmT4	VDIF,VF,PL,OVAL,PATCH,UB,NND,R=P	
H535-3	NGC 4265	Crv	Galaxy Sb	VF,PS,R
Apr 06 2008	31"	17mmT4	MF,MS,OVAL,UB,NND,R=F	
H536-2	NGC 4845	Vir	Galaxy SA(s)ab sp	PF,PL,PME,VGBM,*NF
Feb 12 1983	12.5"	16mm	DIF,MF,MS,ELONG,BETWEEN 2F*S,UB,NND	
H536-3	NGC 4714	Crv	Galaxy SAB(rs)0-?	F,PS,R,GBM
Apr 06 2008	31"	17mmT4	VB,ML,OVAL,LARGE BNUC,MOD HISB,R=G	
H537-2	NGC 4999	Vir	Galaxy SB(r)b	CF,PL,R,LBM,ER
Mar 22 2004	12.5"	12mmT4	MF,MS,OVAL,PATCH,NND,LOCATED IN BARRON FOV,VF* IN GAL,SOMEWHAT BM,R=F	
H537-3	NGC 4748	Crv	Galaxy Sa	F,VS,IR,GBM
Apr 06 2008	31"	17mmT4	PB,MS,OVAL,SMALL BNUC,VF BULGE OFF ONE SIDE,R=F	
H538-2	NGC 4794	Crv	Galaxy SB(rs)a	VF,S,2OR3*NR
Apr 06 2008	31"	17mmT4	PB,MS,OVAL,PATCH,LARGE BNUC,*S BOTH SIDES,HISB,R=G	
H539-2	NGC 5806	Vir	Galaxy SAB(s)b	CB,CL,E165,SBMN

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H539-2	NGC 5806	Vir	Galaxy SAB(s)b	CB,CL,E165,SBMN
Mar 19 2004	12.5"	12mmT4	DIF,VF,MS,ELONG,UB,NND,R=F	
H540-2	NGC 5831	Vir	Galaxy E3	PB,S,MBM
Mar 19 2004	12.5"	12mmT4	MF,MS,OVAL,LARGE BNUC,SMBM,SHISB MIDDLE,R=F	
H540-3	NGC 2719	Lyn	Galaxy Im pec?	VF,S,E110,2VF* INV
Nov 24 2003	31"	17mmT4	MF,MS,EDGE ON,PATCH,UB,NND,SHISB,SLIGHTLY CENTRAL BULGE,COMP=2719A,R=G	
H541-2	NGC 5839	Vir	Galaxy SAB(rs)0^:	PF,PS
Mar 16 2010	31"	17mmT4	PF,ML,R,LARGE BNUC,HISB MIDDLE,SUDDENLY MBM,R=G	
H541-3	NGC 2955	LMi	Galaxy (R')SA(r)b	CF,PS,IR,GLBM,R
Dec 20 2003	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,F* BOTH SIDES,MOD HISB MIDDLE,R=G	
H542-2	NGC 5838	Vir	Galaxy SA0-	PB,PS
Mar 19 2004	12.5"	12mmT4	MF,MS,OVAL,LARGE BNUC,HISB MIDDLE,R=G	
H542-3	NGC 3074	LMi	Galaxy SAB(rs)c	VF,PL,IR,VGV LBM
Dec 26 2003	31"	17mmT4	VDIF,VF,VL,PATCH,UB,NND,R=F	
H543-2	NGC 5850	Vir	Galaxy SB(r)b	CF,S,LE,PSBM
Mar 16 2010	31"	17mmT4	MB,PL,OVAL,LARGE BNUC,LARGE SOFT NUC,GRAD BM,MOD HISB MIDDLE,FAINT BAR ACROSS NUC,FAINT HALO ARMS,R=G	
Mar 19 2004	12.5"	12mmT4	MF,MS,OVAL,NND,PAIRS=5846,R=F	
H544-2	NGC 5854	Vir	Galaxy SB(s)0+ sp	PB,S,VLE,LBM,AM ST
Mar 19 2004	12.5"	12mmT4	MF,MS,ELONG,LARGE FNUC,SBM,R=F	
H550-2	NGC 3636	Crt	Galaxy E0	F,VS,R,LBM,*7F,P OF2
Nov 24 2006	12.5"	12mmT4	MB,MS,R,LARGE BNUC,B* IN FOV,GBM,MOD HISB MIDDLE,PAIR=3637,R=G	
H550-3	NGC 5718	Vir	Galaxy S0-:	VF,S,R,VGLBM,*8,9NF
May 18 2007	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,PAIR=IC1042,R=G	
H551-2	NGC 3637	Crt	Galaxy (R)SB(r)0^	F,VS,R,PSBM,*7P,FOF2
Nov 24 2006	12.5"	12mmT4	MB,MS,R,LARGE BNUC,B* IN FOV,BGM,MOD HISB MIDDLE,PAIR=3636,R=G	
H552-2	NGC 3732	Crt	Galaxy SB0-a	F,S,R,PSBM,*14SP
Apr 26 2006	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,BMBM,R=G	
H553-2	NGC 3892	Crt	Galaxy SB(rs)0+	PB,PL,R,GBM,R
Apr 26 2006	31"	17mmT4	PB,ML,R,LARGE BNUC,BRT INNER REGION,HISB MIDDLE,GMBM,PAIRS=MAC'S,R=G	
H553-3	NGC 6070	Ser	Galaxy SA(s)cd	F,L,PME,VGBM,R
May 31 1981	12.5"	16mm	DIF,PB,PL,ELONG,BRT HALO	
H554-2	NGC 2507	Cnc	Galaxy S0/a pec	PB,PL,IR,VGBM,ER,*S
Jan 24 2004	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,2VF**S BOTH SIDES OF GAL,MOD HISB MIDDLE,R=G	
H554-3	NGC 5775	Vir	Galaxy SBc? sp	F,PS,VME148,GVLBM
Apr 26 2006	31"	17mmT4	VB,EL,EDGE ON,NND,1/2 BRT THAN OTHER,DUST LANE SUSP,PATCHY,BROKEN AREAS,PAIR,R=E	
H555-2	NGC 2889	Hya	Galaxy SAB(rs)c	PF,PS,VLE,VGLBM,R
Mar 29 2006	31"	17mmT4	MB,ML,R,LARGE FNUC,GMBM,SOMEWHAT HISB,R=G	
H555-3	NGC 6548	Her	Galaxy SB0	CF,S,LE,R
Jul 03 2003	12.5"	9mmT6	PB,VL,R,BNUC,SHISB,HISB MIDDLE,LARGE SOFT NUC,PAIR=6549,R=G	
Sep 04 2002	12.5"	9mmT6	PB,ML,OVAL,GMBM,MOD HISB,PAIR/6549	
H557-2	NGC 2718	Hya	Galaxy (R')SAB(s)ab	F,PL,E,AM3*
Oct 24 1981	12.5"	12mm	PATCHY,PF,MS,STELL NUC SUSP,SBM	
H557-3	NGC 990	Ari	Galaxy E	F,S,R,PSBM
Oct 23 1982	12.5"	16mm	VF,VS,FNUC,R,SBM,SMALL BRT NEC	
H558-2	NGC 4658	Vir	Galaxy SB(s)bc	VF,L,E,*16ATT,*9P
Mar 27 1982	12.5"	12mm	VDIF,VF,MS,F*N EDGE,B* CLOSE BY,OVAL,PATCHY,NND,UB,PAIR/4663	

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H558-2	NGC 4658	Vir	Galaxy SB(s)bc	VF,L,E,*16ATT,*9P
Mar 27 1982	12.5" 12mm		VDIF,VF,MS,F*N EDGE,B* CLOSE BY,OVAL,PATCHY,NND,UB,PAIR/4663	
H558-3	NGC 7492	Aqr	Globular	EF,L,BET2D*
Jul 10 1981	12.5" 16mm		DIF,PF,VL,FAINT DIF *S	
Sep 10 1980	12.5" 32mm		BARELY VISIBLE	
H559-2	NGC 4759	Vir	Galaxy S0[^] pec	PL,D,*10SP2'
May 18 2007	31" 17mmT4		PB,ML,R,SBNUC,CLOSE COMP=4778,HISB,EXCELLENT HICKSON GROUP,R=G	
H560-3	NGC 551	And	Galaxy SBbc	VF,S,E,VGLBM,*13NR
Dec 20 2003	31" 17mmT4		PF,VL,OVAL,PATCH,LARGE FNUC,R=G	
H561-2	NGC 4939	Vir	Galaxy SA(s)bc	PB,L,R,GMBM
Mar 22 2004	12.5" 12mmT4		MF,MS,PATCH.LARGE FNUC,SBM,R=F	
H561-3	NGC 687	And	Galaxy S0	VF,STELLAR
Dec 20 2003	31" 17mmT4		MF,ML,OVAL,R,LARGE BNUC,MOD HISB,R=G	
Oct 09 2010	31" 17mmT4		MB,ML,R,LARGE BNUC,WELL DEFINED NUC,SUDDENLY MBM,HISB,MIDDLE,AGC 262,R=G	
H562-3	NGC 703	And	Galaxy S0-:	VF,VS,R,1ST OF 4
Nov 20 2003	31" 17mmT4		MF,MS,ELONG,SMALL FNUC,MOD HISB,NGC 708 CLUSTER OF 8,R=G	
H563-3	NGC 704	And	Galaxy S0	VF,VS,R,2ND OF 4
Nov 20 2003	31" 17mmT4		MF,MS,PATCH,UB,NND,SHISB,NGC 708 CLUSTER OF 8,R=G	
H564-2	NGC 2778	Lyn	Galaxy E	PB,S,R,PSMBM
Dec 26 2003	31" 17mmT4		MB,PL,LARGE BNUC,MOD HISB MIDDLE,PAIR=2779,R=G	
H564-3	NGC 705	And	Galaxy S0/a	VF,VS,R,3RD OF 4
Nov 20 2003	31" 17mmT4		MF,MS,EDGE ON, OVAL,SMALL FNUC,CENTRAL BULGE,MOD HISB,NGC 708 CLUSTER OF 8,R=G	
H565-2	NGC 3381	LMI	Galaxy SB pec	PF,CL,IR,VGLBM,1ST-3
Feb 15 2004	31" 17mmT4		DIF,MF,VL,OVAL,PATCH,UB,NND,R=G	
H565-3	NGC 708	And	Galaxy E	F,PL,BM,4TH OF 4
Aug 31 1984	12.5" 12mm		VDIF,VF,VS,OVAL-UB PATCH,3 OTHER GAL PRESENT,SMALL CLUSTER, NO *S	
Nov 20 2003	31" 17mmT4		MF,MS,FNUC,GMBM,F* IN GAL,MOD HISB,NGC 708 CLUSTER OF 8,R=G	
H566-2	NGC 5078	Hya	Galaxy SA(s)a: sp	PB,PS,CE,PSBM,*7,8F
Apr 26 2006	31" 17mmT4		PB,ML,EDGE ON,LARGE BNUC,SHARP ENDS,CENTRAL BULGE,HISB MIDDLE,PAIR=IC879,R=G	
H566-3	NGC 797	And	Galaxy SAB(s)a	VF,S,IR,SBM,*NR
Sep 10 2004	31" 17mmT4		MF,PS,R,LARGE BNUC,R=F	
H567-3	NGC 834	And	Galaxy S?	VF,S,LE
Sep 10 2004	31" 17mmT4		MB,ML,OVAL,PATCH,SHISB,R=G	
H568-2	NGC 4270	Vir	Galaxy S0	PB,S,R
Apr 25 1981	12.5" 24mm		DIF,PF,PS,DARM,PAIR/4273/4281	
Apr 26 2003	12.5" 9mmT6		PB,PL,ELONG,OVAL,FNUC,SOMEWHAT HISB,SBM,CLUSTER,6 OF 9,R=G	
H569-2	NGC 4273	Vir	Galaxy SB(s)c	PB,L,E,GBM
Apr 25 1981	12.5" 24mm		DIF,PF,PS,DARM,PAIR/4270/4281	
Apr 26 2003	12.5" 9mmT6		MB,PL,OVAL,UB,STELL NUC,MOD HISB,CLUSTER,4 OF 9,R=G	
H570-3	NGC 898	And	Galaxy Sab sp	EF,VS,LE
Sep 10 2004	31" 17mmT4		MF,MS,EDGE ON,LARGE BNUC,MOD HISB MIDDLE,R=G	
Sep 14 2012	36" 17mmT4		MF,MS,EDGE ON,LARGE FNUC,CENTRAL BULGE,AGC 347,R=F	
H571-2	NGC 4277	Vir	Galaxy SAB(rs)0/a:	VF,ES
Apr 26 2003	12.5" 9mmT6		DIF,VF,MS,PATCH,UB,NND,CLUSTER,3 OF 9,R=F	
H571-3	NGC 910	And	Galaxy E+	VF,PS,STELLAR
Dec 20 2003	31" 17mmT4		MF,MS,OVAL,SMALL FNUC,SHISB MIDDLE,R=F	

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H571-3	NGC 910	And	Galaxy E+	VF,PS,STELLAR
Dec 20 2003	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,SHISB MIDDLE,R=F	
Oct 30 2005	31"	17mmT4	VB,VL,R,LARGE BNUC,HISB,LARGE HISB NUC AREA,R=E	
Sep 14 2012	36"	17mmT4	MB,PS,R,LARGE BNUC,SHISB,AGC 347,R=F	
H572-3	NGC 980	And	Galaxy S0	VF,PS,SP OF 2
Sep 11 2004	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,HISB,LARGE NUC AREA,GMBM,PAIRS=982,PGC'S,MAC,R=G	
H573-2	NGC 4281	Vir	Galaxy S0+: sp	B,VL,R,PGBM
Apr 26 2003	12.5"	9mmT6	MP,PL,ELONG,BNUC,MOD HISB,GBM,LARGE NUC AREA,CLUSTER,1 OF 9,R=E	
H573-3	NGC 982	And	Galaxy Sa	F,S,NF OF 2
Sep 11 2004	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,HISB,LARGE NUC AREA,GMBM,PAIRS=980,PGC'S,MAC,R=G	
H574-2	NGC 5668	Vir	Galaxy SA(s)d	F,PS,VLE,*14INV
Apr 26 2006	31"	17mmT4	PB,PL,R,UB,NND,SHISB,R=G	
H574-3	NGC 1293	Per	Galaxy E0	VF,R,BM,NP OF 2
Sep 12 2002	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,ABELL426	
H575-3	NGC 1294	Per	Galaxy SA0-?	VF,R,BM, SF OF 2
Sep 12 2002	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,ABELL426	
H576-3	NGC 7426	Lac	Galaxy E	VF,CS,R,STELLAR,D*P
Sep 11 2004	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
H577-3	NGC 477	And	Galaxy SAB(s)c	VF,PS,VLE,VGLBM
Dec 20 2003	31"	17mmT4	DIF,PF,MS,PATCH,NND,VF* IN GAL,PATCHY DARK AREA'S DET,PAIR WITH PGC'S,R=F	
Oct 30 2005	31"	17mmT4	PB,VL,OVAL,PATCH,VLFNUC,SEVERAL F*S IN AND AROUND GAL,PATCHY,PAIRS=PGC'S,R=G	
H578-2	NGC 4701	Vir	Galaxy SA(s)cd	F,S
Mar 27 1982	12.5"	12mm	VDIF,VF,MS,R-PATCHY,NND,SMBM	
H578-3	NGC 1207	Per	Galaxy SA(rs)b	CF,VS,R,PSB INNPPEND
Aug 17 1982	12.5"	16mm	DIF,PF,PS,FNUC,STELL NUC SUSP,PATCH	
Aug 21 1982	12.5"	16mm	CLASS AS E2,MF,PS,BNUC,F*N EDGE,F*W EDGE,LOC IN TRI OF B*S,R,GMBM	
H579-2	NGC 5560	Vir	Galaxy SB(s)b pec	PF,CL,E,GBM
Apr 26 2003	12.5"	9mmT6	DIF,PF,VL,ELONG,UB,PATCH,NND,PAIR/5566/5569,R=F	
H579-3	NGC 7707	And	Galaxy S0-:	EF,S,R,*9,10P VNR
Sep 18 2004	31"	17mmT4	MB,ML,LARGE FNUC,VF* IN EDGE,MOD HISB MIDDLE,GMBM,R=G	
H580-2	NGC 5636	Vir	Galaxy SAB(r)0+	EF,CL,R,NP OF 2
Apr 26 2003	12.5"	9mmT6	EDIF,EF,ML,PATCH,UB,NND,PAIR=5638,R=P	
H580-3	NGC 1138	Per	Galaxy SB0	VF,VS,R,GBM,2S* TRI
Aug 17 1982	12.5"	16mm	DIF,VF,VS,BNUC,FORMS TRI WITH 2F*S,R,GBM	
H581-2	NGC 5638	Vir	Galaxy E1	CB,PL,R,SF OF 2
Apr 26 2003	12.5"	9mmT6	VB,ML,R,BNUC,MOD HISB,SOFT NUC,GBM,PAIR=5636,R=G	
H581-3	NGC 1030	Ari	Galaxy S?	VF,IE
Oct 23 1982	12.5"	16mm	DIF,MF,MS,ELONG,UB,NND,F*N TIP	
H582-3	NGC 1088	Ari	Galaxy S0/a	VF,S,IF
Sep 25 2003	31"	17mmT4	MB,PS,OVAL,SMALL FNUC,PAIR=IC255,R=F	
H583-2	NGC 6010	Ser	Galaxy S0/a: sp	PF,S,E90,GBM,R
Jun 01 2008	31"	17mmT4	MB,ML,EDGE ON,LBNUC,TAPPERED ENDS,MOD HISB MIDDLE,SMBM,CENTRAL BULGE,R=G	
H583-3	NGC 780	Tri	Galaxy Sb	VF,VS,E,3*P
Oct 25 2006	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,F* IN EDGE,MOD HISB MIDDLE,R=G	
H584-2	NGC 6235	Oph	Globular	PB,CL,IR,RRR,*14..16
Jul 21 1984	12.5"	16mm	VDIF,VF,MS,FAINT PATCH,FAINT TRI OF *S AROUND OBJECT	
Jun 04 1981	12.5"	24mm	DIF,MB,ML,10 MAG *S	

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H584-2	NGC 6235	Oph	Globular	PB,CL,IR,RRR,*14..16
Jun 04 1981	12.5"	24mm	DIF,MB,ML,10 MAG *S	
Jun 18 1980	12.5"	24mm	VF,FAINT TRI OF *S SURROUND OBJECT	
H584-3	NGC 1056	Ari	Galaxy Sa:	F,S,R,PSBM
Sep 25 2003	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,TAPPERED ENDS,MOD HISB,R=G	
H585-2	NGC 5864	Vir	Galaxy SB(s)0⁺? sp	PF,CS,ILE,GBM,*14F
Apr 26 2006	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,MHISB,* OFF EDGE,CENTRAL BULGE,HISB MIDDLE,BM,GMBM,R=G	
H586-2	NGC 6445	Sgr	Planetary Neb 3b+3	PB,PS,R,GBM,R,*15NP
Aug 13 1982	12.5"	16mm	PF,VS,BLUE GREEN,F* ON NW EDGE,OVAL-PATCHY,SBM,PAIR/6440	
May 18 2009	31"	17mmT4	VB,PL,HISB,LOOKS LIKE A BIG MAC SANDWITCH,2 HAMBURGER BUNS,NO C*,SEPERATED IN 2 HALVES,BOX-SQUARE SHAPE,OIII, OUTER SIDES OF NEB BRTER,R=E	
Sep 20 1984	12.5"	12mm	DIF,MF,PS,F* NW EDGE,B* TO W,PATCHY	
H587-2	NGC 6426	Oph	Globular	VF,CL,E,VLBM
Jun 04 1981	12.5"	24mm	DIF,MF,PS	
H588-2	NGC 665	Psc	Galaxy (R)S0⁺?	F,S,LE,BM,R
Sep 04 2002	12.5"	9mmT6	PB,PL,GBM,MOD HISB,OVAL	
H589-2	NGC 673	Ari	Galaxy SAB(s)c	PF,PL,E,LBM,*11NF3'
Oct 22 1982	12.5"	16mm	VDIF,VF,VS,B* TO E SEVERAL GAL DIA,PATCH-OVAL,STELL NUC	
H589-3	NGC 1659	Eri	Galaxy SA(r)bc pec	PF,PS,IE90,BM
Oct 30 1981	12.5"	12mm	VDIF,MF,MS,R,PATCHY,SBM	
H590-2	NGC 7458	Psc	Galaxy E	CF,CS,PSBM
Sep 16 2009	31"	17mmT4	PB,PL,R,LARGE BNUC,HISB MIDDLE,GMBM,PAIR=PGC70289,R=G	
H590-3	NGC 1954	Lep	Galaxy SA(rs)bc pec:	VF,S,R,SMBM
Nov 22 2006	12.5"	12mmT4	MF,MS,PATCH,SMALL BNUC,PATCHY AREAS,NOT WELL DEFINED,F*S IN AND AROUND GAL,R=F	
H591-2	NGC 14	Peg	Galaxy (R)IB(s)m pec	VF,PS,R,GLBM
Sep 12 2002	12.5"	9mmT6	DIF,PF,PL,FACE ON,UB,NND,VF* OFF ONE SIDE,R	
H591-3	NGC 1242	Eri	Galaxy SB(rs)c:	VF,S
Nov 17 2012	36"	17mmT4	MV,ML,OVAL,PATCH,NND,PAIR=1241,R=F	
H592-2	NGC 1024	Ari	Galaxy (R')SA(r)ab	PF,S,LE,BM,*11NF 1'
Oct 23 1982	12.5"	16mm	MF,ML,FNUC,F* TO N,GBM,ROUND-OVAL,PAIR/1029	
Sep 25 2003	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,GMBM,HISB,PAIRS/1028/1029,R=G	
H593-2	NGC 1400	Eri	Galaxy SA0-	CB,PS,R,PSMBM
Oct 24 1981	12.5"	12mm	MB,ML,BNUC,R,PAIT/1407	
Oct 31 1980	12.5"	24mm	PAIR/1407	
Sep 09 1980	12.5"	24mm		
H595-2	NGC 7183	Aqr	Galaxy S0⁺ pec sp	VF,PL,E90,LBM
Sep 06 2002	12.5"	9mmT6	DIF,PF,VL,ELONG,NND,PATCH,UB,SOMEWHAT HISB	
H595-3	NGC 193	Psc	Galaxy SAB(s)0-:	F,L,P OF2,*15CLOSESP
Sep 04 2002	12.5"	9mmT6	MB,PL,MOD HISB,OVAL,2F*S OFF TO ONE SIDE	
H596-2	NGC 706	Psc	Galaxy Sbc?	F,S,BM,*13N1'
Sep 04 2002	12.5"	9mmT6	DIF,PB,PL,PATCH,UB,F* OFF ONE SIDE	
H598-2	NGC 7377	Aqr	Galaxy SA(s)0⁺	PB,S,VLE,VGMBM,*12P
Jul 10 1981	12.5"	16mm	R,BM,DIF HALO	
H598-3	NGC 3509	Leo	Galaxy SA(s)bc pec	EF,S,(LE)
Mar 26 2006	31"	17mmT4	MF,VL,UB,NND,IRR, S-SHAPED,PATCHY AREAS,R=G	
H599-2	NGC 7197	Lac	Galaxy Sa	F,CS,CE,VGLBM,ER
Sep 11 2004	31"	17mmT4	MF,MS,ELONG,SMALL FNUC,F*S BOTH ENDS,SHISB MIDDLE,R=F	

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H599-2	NGC 7197	Lac	Galaxy Sa	F,CS,CE,VGLBM,ER
Sep 11 2004	31"	17mmT4	MF,MS,ELONG,SMALL FNUC,F*S BOTH ENDS,SHISB MIDDLE,R=F	
H600-2	NGC 7640	And	Galaxy SB(s)c	CF,L,ME164,VLBM,R
Aug 31 1984	12.5"	16mm	DIF,PF,ML,ELONG,UB,B* ON W TIP,B* ON E SIDE,STRETCHES BET 2*S,PREVIOUS * THERE	
Sep 10 1980	12.5"	24mm		
Sep 23 1981	12.5"	16mm	ELONG,3B*S AROUND GAL,F 14* ON SE ARM,DIF ARMS,SBM,MB,PS	
H601-2	NGC 1122	Per	Galaxy SBb	VF,PS,R,*NR N
Aug 17 1982	12.5"	16mm	VDIF,VF,VS,F*E SIDE(POSSIBLE 2*S),SOME BRT AREAS IN GAL SUSP,OVAL,MOD HISB	
H602-2	NGC 1129	Per	Galaxy E	CF,PS,IR,VGLBM, F*SP
Aug 17 1982	12.5"	16mm	DIF,MF,MS,OVAL,UB-SBM,COMPANION TO N(1130),PAIR/1131	
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,LARGE FNUC,COMP=PGC10953,NGC1129 CLUSTER,R=G	
H602-3	NGC 4571	Com	Galaxy SA(r)d	VF,L,E,VGBM,*9NF NR
Mar 22 2004	12.5"	12mmT4	DIF,VF,VL,OVAL,PATCH,UB,NND,SOMEWHAT BM,R=F	
H603-2	NGC 1275	Per	Galaxy Pec	F,S
Aug 25 1982	12.5"	16mm	MB,ML,FNUC,F*N AND W,GMBM,R-OVAL,2 OTHER GAL CLOSE BY/1272 AND 1278	
Sep 12 2002	12.5"	9mmT6	PB,PL,BNUC,GMBM,OVAL,LARGE NUC,HISB,ABELL426	
H604-2	NGC 818	And	Galaxy SABc:	PB,CL,LE,MBM
Sep 10 2004	31"	17mmT4	MF,PL,OVAL,PATCH,LARGE VFNUC,SOMEWHAT BM,R=F	
H604-3	NGC 845	And	Galaxy Sb	VF,IF,STELLAR
Sep 10 2004	31"	17mmT4	PF,ML,EDGE ON,SMALL FNUC,F* ON TIP,CENTRAL BULGE,R=F	
H605-2	NGC 828	And	Galaxy Sa: pec	PB,S,IR,D*F15S
Sep 10 2004	31"	17mmT4	PF,ML,OVAL,LARGE FNUC,SHISB MIDDLE,R=F	
H605-3	NGC 2512	Cnc	Galaxy SBb	VF,S,IR
Jan 24 2004	31"	17mmT4	MF,PL,OVAL,SMALL FNUC,R=F	
H606-2	NGC 7231	Lac	Galaxy SBa	EF,S,ER
Sep 11 2004	31"	17mmT4	MB,MS,ELONG,PATCH,SHISB,SBM,R=G	
H606-3	NGC 2558	Cnc	Galaxy SAB(rs)ab	VF,S,R,SBM,STELLAR
Mar 17 2010	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,GRAD BM,SOMEWHAT HISB MIDDLE,R=F	
H607-2	NGC 1175	Per	Galaxy SA(r)0+	F,CL,E
Aug 17 1982	12.5"	16mm	DIF,MF,VS,SLIGHTLY ELONG,SBM,PATCHY,F*S SUSP,COMPANION/1177	
Oct 03 1981	12.5"	12mm	EDIF,VF,ES,ELONG,STELL NUC SUSP,OBLONG IN SHAPE	
H608-2	NGC 1193	Per	Open Cluster 14.0 I 2 m	F,CL,ER
Aug 10 2002	12.5"	9mmT6	PF,PS,TIGHT GROUPING,*S SIMILAR MAGNITUDE	
H609-2	NGC 252	And	Galaxy (R)SA(r)0+:	PB,S,R,PMBM,R,**P
Oct 05 2002	12.5"	9mmT6	PB,PL,BNUC,R,SMBM,MOD HISB	
Sep 14 2012	36"	17mmT4	MB,ML,OVAL,R,LARGE BNUC,HISB,LARGE HALO,PAIR=258,R=G	
H610-2	NGC 661	Tri	Galaxy E+:	F,S,R,BM,R
Dec 04 2004	31"	17mmT4	MF,MS,R,LARGE BNUC,MOD HISB,R=G	
H610-3	NGC 4705	Vir	Galaxy SAB(s)bc: sp	CF,PL,LE
Mar 27 1982	12.5"	12mm	EDIF,VF,MS,ELONG,UB,NND	
H611-2	NGC 670	Tri	Galaxy SA0	F,S,LE
Aug 25 1982	12.5"	16mm	SEEN AS AN E4 GALAXY,SBM,DIM,NEC SUSP	
Sep 14 2012	36"	17mmT4	MB,ML,ELONG,LARGE BNUC,MHISB,CIGAR SHAPE,R=FG	
Sep 18 1980	12.5"	24mm		
Sep 23 1981	12.5"	16mm	DIF,MF,PS,FARM,NO *S,NND,OBLONG,PAIR/672	
H611-3	NGC 4725	Com	Galaxy SAB(r)ab pec	VB,VL,E,VG,VSVMBMEBN
Feb 12 1983	12.5"	24mm	VB,EL,BNUC,LARGE BRT NUC,OVAL,SLIGHTLY ELONG	
H612-2	NGC 684	Tri	Galaxy Sb sp	F,VLE,*13F100"

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H612-2	NGC 684	Tri	Galaxy Sb sp	F,VLE,*13F100"
Dec 04 2004	31"	17mmT4	MB,ML,EDGE ON,BRT NUC,CENTRAL BULGE,DUST SUSP,TAPPERED ENDS,SHISB MIDDLE,R=E	
H613-2	NGC 855	Tri	Galaxy E	F,S,LE90,BM
Oct 22 1982	12.5"	16mm	DIF,MF,PS,PATCH,F*S SIDE,UB,NND,12MM SLIGHTLY ELONG,SBM	
H614-2	NGC 2275	Gem	Galaxy S?	EF,VS
Oct 05 2002	12.5"	9mmT6	PB,VL,PATCH,MOD HISB,NND,PAIR/2274	
H614-3	NGC 4890	Vir	Galaxy Sm	CF,S,IR,BM
Mar 22 2004	12.5"	12mmT4	PF,MS,OVAL,PATCH,NND,SOMEWHAT BM,PAIRS=4915/4918,R=F	
H615-2	NGC 2274	Gem	Galaxy E	F,S,BM
Oct 05 2002	12.5"	9mmT6	PB,PL,BNUC,R-OVAL,LARGE NUC,MOD HISB,PAIR/2275	
H615-3	NGC 3304	LMi	Galaxy SB(s)a?	VF,CS,PSBM,ER
Jan 24 2004	31"	17mmT4	MF,MS,ELONG,LARGE FNUC,GBM,R=F	
H616-2	NGC 2435	Gem	Galaxy Sa	F,S,LBM
Dec 06 2002	12.5"	9mmT6	PB,ML,ELONG,BNUC,MBM,MOD HISB CENTER,STELLER NUC SUSP,DUST SUSP	
H617-2	NGC 691	Ari	Galaxy SA(rs)bc	F,CL,VGLBM
Oct 22 1982	12.5"	16mm	DIF,MF,MS,BRIGHT KNT IN E PART,CLOSE DOUBLE IN W SIDE,OVAL,PAIR/694	
Sep 23 2003	31"	17mmT4	MB,VL,OVAL,R,FNUC,DOUBLE * IN FOV,F*S AROUND GAL,SPR STR DET,ARMS,HISB MID,R=E	
H618-2	NGC 695	Ari	Galaxy S0? pec	VS,STELLAR
Oct 22 1982	12.5"	16mm	VF,ES,STRAIGHT N OF 697,F* ON W SIDE,R,STELL NUC	
H619-2	NGC 1156	Ari	Galaxy IB(s)m	PB,CL,PME0,BET2*
Oct 23 1982	12.5"	16mm	HISB,SAME	
Oct 31 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm	B*N PART	
Sep 24 1981	12.5"	16mm	* IN GAL N SIDE(13MAG),PATCHY DIFF,UB,2-3F*S AROUND GAL	
H619-3	NGC 5107	CVn	Galaxy SB(s)d? sp	VF,S,CE0
Jan 28 1982	12.5"	16mm	VDIF,EF,ES,ELONG,NND	
Jan 28 1982	12.5"	24mm	EASIER TO DETECT THAN IN 16MM	
H620-2	NGC 1169	Per	Galaxy SAB(r)b	PF,PS,IF,SBM
Aug 17 1982	12.5"	16mm	DIF,MF,MS,FNUC,F*S AND E 1 OR 2 GAL DIA,SBM,CLASS E3	
Oct 03 1981	12.5"	16mm	DIF,VF,PS,DNUC,F*W PART OF GAL,SMBM,NUC DET	
H620-3	NGC 5243	CVn	Galaxy S	CF,PL,E65,(BIN)
Feb 15 2004	31"	17mmT4	MF,PL,EDGE ON,PATCH,UB,NND,SHISB,R=G	
H621-2	NGC 259	Cet	Galaxy Sbc: sp	F,S,E135,LBM
Oct 13 2007	31"	17mmT4	MB,PL,EDGE ON,NND,SOME STR SUSP,SMALL CENTRAL BULGE,R=F	
H622-2	NGC 428	Cet	Galaxy SAB(s)m	F,L,R,BM,ER
Sep 09 1980	12.5"	32mm	BETWEEN 2 BRT *S	
Sep 10 1980	12.5"	24mm		
Sep 27 1981	12.5"	16mm	VDIF,MF,PL,BETWEEN 2F*S ON OPPOSITE SIDES,NNS,UB,PATCHY-OVAL	
H622-3	NGC 6038	CrB	Galaxy Sc	VF,S,R,*10SF
Jun 19 2004	31"	17mmT4	MV,PL,OVAL,SMALL FNUC,SHISB,R=G	
H623-3	NGC 6120	CrB	Galaxy Pec	VF,VS,R,D*NF
Apr 04 2005	31"	17mmT4	MF,PL,OVAL,PATCH,UB,NND,SHISB,PAIRS=6119/6122/MAC,R=G	
H624-3	NGC 6137	CrB	Galaxy E	F,S,IR,BM
Apr 04 2005	31"	17mmT4	MF,PS,OVAL,NND,MHISB,F* BETWEEN,CLOSE COMP=PGC57964,R=G	
H625-3	NGC 2704	Lyn	Galaxy SB(r)ab	VF,VS
Nov 24 2003	31"	17mmT4	MF,MS,OVAL,UB,STELL NUC,SBM,R=F	

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H625-3	NGC 2704	Lyn	Galaxy SB(r)ab	VF,VS
Nov 24 2003	31"	17mmT4	MF,MS,OVAL,UB,STELL NUC,SBM,R=F	
H626-3	NGC 2755	Lyn	Galaxy S?	VF,S,IF,LBM,R
Apr 03 2005	31"	17mmT4	MF,ML,ELONG,OVAL,PATCH,UB,R=G	
H627-2	NGC 2545	Cnc	Galaxy (R)SB(r)ab	F,S,LE45,*8NP4'
Feb 21 1984	12.5"	12mm	SAME,VDIF,MF,PS,F*N	
Oct 24 1981	12.5"	12mm	EDIF,VF,ES,F*N 1 GAL DIA,PATCHY,NUC DET,STELL NUC	
H627-3	NGC 2838	Lyn	Galaxy E/S0	VF,VS,R
Dec 26 2003	31"	17mmT4	MB,MS,R,SMALL BNUC,HISB MIDDLE,PAIRS=MAC'S,R=G	
H628-2	NGC 4312	Com	Galaxy SA(rs)ab: sp	PB,CL,E,GBM
Apr 26 2003	12.5"	9mmT6	MB,PL,EDGE ON,UB,SOMEWHAT HISB,CENTRAL PART OF GAL HISB,TIPS FAINTER,R=G	
H628-3	NGC 2844	Lyn	Galaxy SA(r)a:	CF,CS
Dec 26 2003	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,BRT BAR,GMBM,MOD HISB MIDDLE,R=G	
H629-3	NGC 2852	Lyn	Galaxy SAB(r)a?	VF,CS,R,*10P2',1ST-2
Dec 26 2003	31"	17mmT4	MF,MS,SMALL BNUC,HOD HISB MIDDLE,GMBM,PAIR=2853,R=G	
H630-3	NGC 2853	Lyn	Galaxy SB0:	VF,S,VGBM,2ND OF 2
Dec 26 2003	31"	17mmT4	MF,PS,PATCH,UB,NND,VF* ON EDGE,PAIR=2852,R=F	
H631-3	NGC 3237	UMa	Galaxy (R)SAB0^	VF,VS,R,PGBM
Feb 25 1982	12.5"	16mm	DIF,MF,MS,FNUC,R,SBM,NUC DET,SEVERAL *S SCATTERED N TO S	
H633-2	NGC 1058	Per	Galaxy SA(rs)c	PF,CL,R,GLBM
Aug 17 1982	12.5"	16mm	F* IN NE PART,B*S AROUND GAL,ROUND-OVAL,NND,HISB	
Aug 19 1980	12.5"	24mm	EXTREMELY FAINT AND DIF	
Jul 24 1980	12.5"	24mm	LOW SURFACE BRIGHTNESS,STELL NUC	
Oct 03 1981	12.5"	16mm	DIF,MB,ML,VERY R,F* SURROUNDS GAL,NND,UB	
H636-2	NGC 4597	Vir	Galaxy SB(rs)m	F,VL,BM
Jun 04 1981	12.5"	24mm	DIF,PF,PL,EDGE ON,FAINT HALO,PAIR/4593	
H637-3	NGC 6058	Her	Planetary Neb 3+2	PF,VS,R,STELLAR
Mar 20 2009	31"	17mmT4	MF,MS,R.B C* 12TH MAG,GRANULAR NEB,OIII KNOCKS OUT C*,DOESNOT HELP MUCH,R=F	
Sep 06 2002	12.5"	16mm	PB,ML,R,DIF HALO,BM	
Sep 06 2002	12.5"	9mmT6	BM,MOD HISB,CENTRAL *	
H638-3	NGC 6146	Her	Galaxy E?	CF,VS,R,BM
Feb 27 1982	12.5"	16mm	PF,VS,DNUC,F*NW 1 GAL DIA,SMALL NUC,R,CLOSE PAIR/6145	
H639-2	NGC 3158	LMi	Galaxy E3:	CB,CS,R,PSBM,R
Dec 26 2003	31"	17mmT4	MF,ML,R,LARGE BNUC,MOD HISB MIDDLE,R=G	
Feb 25 1982	12.5"	16mm	MF,MS,BNUC,BET 3*S SAME MAG,R,SMBM,NUC DET,1 OF 5 COMP	
H640-2	NGC 3163	LMi	Galaxy SA0-:	F,S,R,GBM
Dec 26 2003	31"	17mmT4	MF,PL,SMALL FNUC,SBM,MOD HISB MIDDLE,R=G	
Feb 25 1982	12.5"	16mm	DIF,VF,VS,FNUC,R,GMBM,5 OF 5 COMP	
H640-3	NGC 6173	Her	Galaxy E	CF,VS,R,BM
Feb 27 1982	12.5"	16mm	B* IN FIELD,R,GMBM	
H641-2	NGC 3334	LMi	Galaxy S0?	CF,VS,R,BM
Feb 15 2004	31"	17mmT4	MB,PL,R,LARGE BNUC,MOD HISB,GMBM,PAIR=MAC,R=G	
H642-2	NGC 4156	CVn	Galaxy SB(rs)b	PF,S,E,VGBM,F OF 2
Feb 25 2004	31"	17mmT4	MF,ML,OVAL,SMALL FNUC,PAIR=4151,R=F	
H644-2	NGC 4868	CVn	Galaxy SAab?	PB,S,R,MBM
Jan 28 1982	12.5"	16mm	EDIF,PF,VS,* ON N BORDER,* IN S PART SUSP,OVAL,NND	
H645-2	NGC 4914	CVn	Galaxy E	PB,CS,R,SMBM,*17NP
Jan 28 1982	12.5"	16mm	EEDIF,VF,PS,OVAL,SMB	

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H645-2	NGC 4914	CVn	Galaxy E	PB,CS,R,SMBM,*17NP
Jan 28 1982	12.5" 16mm	EEDIF,VF,PS,OVAL,SMB		
H646-2	NGC 5112	CVn	Galaxy SB(rs)cd	F,L,IR,VGLBM
Jan 28 1982	12.5" 16mm	EDIF,VF,MS,* ON E EDGE,OVAL,BRT BAR OR PART SUSP,PAIR/5107		
H646-3	NGC 6018	Ser	Galaxy (R)SAB(s)0+:	VF,S,LE,P OF 2
Jun 01 2008	31" 17mmT4	MB,MS,ELONG,OVAL,SHISB,B* IN GAL,PAIR=6021,R=F		
H647-3	NGC 2759	Lyn	Galaxy S0-:	VF,CS,R
Dec 07 2005	31" 17mmT4	PB,MS,OVAL,SMALL BNUC,VERY MUCH BM,PAIRS=PGC'S,R=G		
H648-3	NGC 4359	Com	Galaxy SB(rs)c? sp	CF,PME90,VLBM
Mar 22 2004	12.5" 12mmT4	PF,ML,ELONG,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,R=E		
H650-2	NGC 5899	Boo	Galaxy SAB(rs)c	CB,PL,PME,SMBMN
May 06 1981	12.5" 24mm	MB,VL,DNUC,DIM HALO		
May 14 2010	31" 17mmT4	PB,ML,ELONG,SMALL BNUC,MOD HISB,GRANULAR ARMS,SMBM,HISB MIDDLE,R=G		
H651-2	NGC 5930	Boo	Galaxy Sa	PF,PS,R,NF OF DNEB
Mar 29 2006	31" 17mmT4	PB,PL,OVAL,SBNUC,CLOSE COMP=5929,BM,SMBM,PAIR=PGC55095,R=G		
May 14 2010	31" 17mmT4	MB,ML,VERY SMALL FNUC,GBM,MHISB,TOUCHING=5929,NICE PAIR,R=G		
H652-3	NGC 5187	CVn	Galaxy S?	VF,VS,R,GLBM
Mar 17 2007	31" 17mmT4	PB,MS,R,LARGE NUC,SOMEWHAT HISB MIDDLE,R=F		
H653-2	NGC 5129	Vir	Galaxy E	PB,VS,R,GMBM,**F
Apr 26 2006	31" 17mmT4	MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIRS=PGC'S,R=G		
H654-2	NGC 5951	Ser	Galaxy SBc: sp	F,PS,E150
May 28 2008	31" 17mmT4	MB,VL,EDGE ON,UB,NND,NO CENTRAL BULGE,TAPPED ENDS,R=G		
H655-2	NGC 5980	Ser	Galaxy S	F,PS,E0
Apr 06 2008	31" 17mmT4	MB,ML,ELONG,MOD HISB,PATCHY AREAS DET,R=G		
H656-2	NGC 5984	Ser	Galaxy SB(rs)d:	PB,S,E135,BM
May 31 1981	12.5" 16mm	DIF,VF,ML,ELONG,FAINT HALO		
H657-2	NGC 6012	Ser	Galaxy (R)SB(r)ab:	F,BET 2B ST
Jun 01 2008	31" 17mmT4	PB,PL,PATCH,NND,SHISB,PATCHY ARMS,R=G		
H658-2	NGC 2691	Lyn	Galaxy Sa?	PF,VS,MBM
Nov 24 2003	31" 17mmT4	MF,MS,OVAL,SMALL FNUC,R=F		
H659-2	NGC 4627	CVn	Galaxy E4 pec	F,S,R,NP OF 2
Mar 17 2007	31" 17mmT4	VB,PL,OVAL,R,LARGE NUC,SHISB,LARGE PATCHY NUC,PAIR=4631,R=G		
H660-2	NGC 4625	CVn	Galaxy SAB(rs)m pec	PF,S,R
Feb 17 2004	31" 17mmT4	PB,PL,R,LARGE BNUC,MOD HISB MIDDLE.PAIR=4618,R=E		
Jan 28 1982	12.5" 16mm	EDIF,VF,VS,* TO S,PATCHY,NND,PAIR/4618		
H660-3	NGC 5900	Boo	Galaxy Sb: sp	VF,S,VLE,GBM
May 14 2010	31" 17mmT4	MF,MS,EDGE ON,UB,NND,SLIGHT CENTRAL BULDGING,R=F		
H661-2	NGC 4655	CVn	Galaxy S	VF,VS,STELLAR,*15F
Feb 17 2004	31" 17mmT4	MF,MS,OVAL,LARGE FNUC,PAIR=MAC,R=F		
H662-3	NGC 4653	Vir	Galaxy SAB(rs)cd	VF,PL
Mar 27 1982	12.5" 12mm	DIF,VERY EDGE ON,DOUBLE * CLOSE BY,BRT MIDDLE,STELL NUC,DUST SUSP,CLOSE COMP?		
H664-2	NGC 5023	CVn	Galaxy Scd: sp	PF,L,ME20,VLBM
Jan 28 1982	12.5" 16mm	VDIF,VF,MS,VERY EDGE ON,SPIKE LIKE		
H664-3	NGC 4690	Vir	Galaxy (R')SA0-?	VF,S
Feb 27 1982	12.5" 12mm	MARS TOO CLOSE, CANNOT SEE GAL		
H665-2	NGC 5103	CVn	Galaxy S?	PB,CS,E
Jan 28 1982	12.5" 16mm	DIF,PF,PS,B*N,F*NE,SBM,MOD HISB		

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H665-2	NGC 5103	CVn	Galaxy S?	PB,CS,E
Jan 28 1982	12.5" 16mm	DIF,PF,PS,B*N,F*NE,SBM,MOD HISB		
H666-2	NGC 5123	CVn	Galaxy Scd:	PF,S,R,GMBM
Jan 28 1982	12.5" 16mm	VDIF,VF,VS,VF* OFF TO E,PATCHY,R,NND		
H667-2	NGC 5145	CVn	Galaxy S?	PB,VS,VLE,GLBM
Jan 28 1982	12.5" 16mm	VDIF,VF,VS,PATCHY,OVAL,F*NE SEVERAL GAL DIA		
H668-2	NGC 5289	CVn	Galaxy (R)SABab: sp	VF,VS,LE90,SBM
Jan 28 1982	12.5" 16mm	DIF,PF,PS,ELONG,*S N S E,SBM,PAIR/5290		
H669-2	NGC 5320	CVn	Galaxy SAB(rs)c:	CF,PL,R,GBM
Jan 28 1982	12.5" 16mm	EDIF,MF,MS,OVAL,NND,UB		
H670-2	NGC 5336	CVn	Galaxy Scd:	CF,PL,R,PSBM
Jan 28 1982	12.5" 16mm	VDIF,VF,VS,SMALL BLURR,OVAL,SBM		
H670-3	NGC 5047	Vir	Galaxy S0 sp	VF
Mar 22 2004	12.5" 12mmT4	MF,MS,ELONG,PATCH,SBM,PAIR=5044 AND OTHERS,R=F		
May 09 2010	31" 17mmT4	MF,MS,EDGE ON,UB,NND,SLIGHT CENTRAL BULGE,MANY OTHERS,R=F		
H671-2	NGC 5362	CVn	Galaxy Sb? pec	PB,PL,E
Jan 28 1982	12.5" 16mm	VDIF,PF,PS,* OFF E SIDE,OVAL,NND		
H671-3	NGC 5716	Lib	Galaxy SB(rs)c?	VF,PL,R
Apr 14 2004	31" 17mmT4	DIF,VF,ML,OVAL,PATCH,UB,NND,R=F		
H672-3	NGC 5173	CVn	Galaxy E0:	F,VS,R,STELLAR
Jan 28 1982	12.5" 16mm	EDIF,PS,VS,NUC COMES AND GOES,R,F*N AND S		
H675-3	NGC 5714	Boo	Galaxy Scd:	VF,PS,E PF,D*N,1 OF6
Mar 16 2010	31" 17mmT4	MB,ML,EDGE ON,UB,NND,GRAD CENTRAL BULGE,SOMEWHAT HISB,SHARP ENDS,PAIRS=NGC'S,R=G		
H676-3	NGC 5520	Boo	Galaxy Sb	F,S,LE,STELLAR
Jun 01 2003	12.5" 9mmT6	DIF,PF,PL,OVAL,PATCH,FNUC,SHISB,SMALL NUC AREA,SBM,R=F		
Mar 06 2003	12.5" 9mmT6	MB,MS,ELONG,BNUC,SMALL BRT NUC,SLIGHTLY HISB,R=F		
H680-3	NGC 6154	Her	Galaxy SB(r)a	VF,S,R,LBM,ER
Feb 27 1982	12.5" 16mm	NND,EDIF,EF,MS,2F*S W SIDE IN A LINE		
H683-2	NGC 5792	Lib	Galaxy SB(rs)b	PB,PL,R,MBM,*8,9NP1'
May 02 1981	12.5" 16mm	DIF,PB,PL,ELONG,DIM HALO,14TH MAG * N SIDE OF GAL		
H687-2	NGC 5506	Vir	Galaxy Sa pec sp	PB,L,E20,LBM
Apr 26 2003	12.5" 9mmT6	MB,PL,ELONG TO EDGE ON,UB,NND,PAIR=5507,R=G		
H687-3	NGC 5754	Boo	Galaxy SB(rs)b	CF,CS,R,BM
Mar 29 2006	31" 17mmT4	MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,PAIR=5752,R=G		
H688-2	NGC 5301	CVn	Galaxy SA(s)bc: sp	CF,L,VME
Jan 28 1982	12.5" 16mm	DIF,MF,ML,EDGE ON,2*S AT EACH TIP,NND,UB		
H688-3	NGC 6104	CrB	Galaxy S?	VF,S,IR
Apr 04 2005	31" 17mmT4	MB,ML,OVAL,UB,NND,SHISB,PAIR=PGC57698,R=G		
H689-2	NGC 5198	CVn	Galaxy E1-2:	PF,PS,R,MBM
Jan 28 1982	12.5" 16mm	PF,MS,BNUC,2*S N AND W EDGE OF GAL,R,GBM		
H690-2	NGC 6155	Her	Galaxy S?	F,PS,IF,GBM
Feb 27 1982	12.5" 16mm	DIF,VF,MS,OVAL,MOD HISB,NND		
H690-3	NGC 5757	Lib	Galaxy (R)SB(r)b	VF,S,IR,LBM
May 02 1981	12.5" 16mm	DIF,PF,VS,FAINT HALO		
H691-2	NGC 5448	UMa	Galaxy (R)SAB(r)a	PB,CL,VME90,SMBMN
Nov 24 2006	12.5" 12mmT4	MB,PL,ELONG,PATCH,UB,NND,SOMEWHAT HISB,R=G		
H691-3	NGC 5791	Lib	Galaxy E6:	PF,S,R,STELLAR

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H691-3	NGC 5791	Lib	Galaxy E6:	PF,S,R,STELLAR
May 02 1981	12.5" 16mm	DIF,VF,PS,FAINT HALO		
H692-2	NGC 5480	UMa	Galaxy SA(s)c:	F,PS,VGBM,NP OF 2
Mar 06 2003	12.5" 9mmT6	DIF,MB,PL,R,PATCH,SBM,LARGER THAN COMP,PAIR/5481,R=F		
H692-3	NGC 7171	Aqr	Galaxy SB(rs)b	VF,CL,E124,VGBM
Jul 10 1981	12.5" 16mm	DIF,PF,MS,ELONG,FAINT HALO		
Oct 04 2005	31" 17mmT4	MF,VL,OVAL,UB,PATCHY NUC,VF* IN EDGE OF GAL,R=G		
Sep 10 1980	12.5" 16mm			
H693-2	NGC 5481	UMa	Galaxy E+	F,VS,SMBM,STELL,SF-2
Mar 06 2003	12.5" 9mmT6	DIF,MB,ML,R,PATCH,*NUC,PAIR/5480,R=F		
H693-3	NGC 7180	Aqr	Galaxy S0^?	VF,S,R,LBM,P OF 2
Oct 07 2010	31" 17mmT4	MB,ML,ELONG,LARGE BNUC,HISB MIDDLE,SUDDENLY MBM,R=G		
Sep 06 2002	12.5" 9mmT6	DIF,PF,PL,PATCH,UB,NND		
H694-2	NGC 5602	Boo	Galaxy Sa	PF,PS,LE,MBM
Jun 01 2003	12.5" 9mmT6	MF,MS,OVAL,FNUC,SHISB,SMALL NUC,R=F		
H694-3	NGC 1343	Cas	Galaxy SAB(s)b: pec	F,VS,IR,GBM,D*V NR
Jan 30 2003	12.5" 9mmT6	MB,PL,R,FNUC,S HISB,F* OFF TO ONE SIDE,FACE ON,R=G		
H695-2	NGC 5660	Boo	Galaxy SAB(rs)c	PB,L,IR,VGBM
May 06 1981	12.5" 24mm	DIF,PB,PL,BRT HALO		
H695-3	NGC 896	Cas	Nebula E	EF,PL,IF
Sep 06 2002	12.5" 9mmT6	PF,EL,BRT NEBULA,FAINT HINT OF BRIGHT AREA COMPARED TO BACKGROUND,LOCATION GOOD		
H696-3	NGC 7139	Cep	Planetary Neb 3b	VF,CS,R,R
Aug 25 1982	12.5" 24mm	VDIF,VF,ML,R,BARELY VISIBLE IN 24MM,F* IN S PART OF NEBULA,UB		
Sep 12 2012	36" 17mmT4	MB,ML,R,UB,W/OIII,SOME PATCHY DARK AREAS,OIII HELPS BRING OUT MORE DETAIL,R=G		
H697-3	NGC 4183	CVn	Galaxy SA(s)cd? sp	VF,CL,ME170
Jan 26 1982	12.5" 16mm	DIF,PF,ML,EDGE ON,13* S EDGE,NND,UB		
H698-2	NGC 5380	CVn	Galaxy SA0-	F,CS,R,SMBM
Jan 28 1982	12.5" 16mm	DIF,MF,MS,FNUC,*NE,OVAL,SBM		
H698-3	NGC 5337	CVn	Galaxy S?	VF,S,IR,*7P
Jan 28 1982	12.5" 16mm	EDIF,VF,MS,INSIDE SMALL TRI OF *'S,NND		
H699-2	NGC 5406	CVn	Galaxy SAB(rs)bc	F,PS,R,LBM
Jan 28 1982	12.5" 16mm	DIF,MF,MS,OVAL,UB,STELL NUC,B* CLOSE BY		
H699-3	NGC 5355	CVn	Galaxy S0?	VF,PS,4TH OF 4
Jun 01 2008	31" 17mmT4	MB,MS,R,LBNUC,MB,PAIRS=5353/5354/5450,R=F		
H700-3	NGC 3319	UMa	Galaxy SB(rs)cd	CF,L,IE,MB,S OF M
Mar 15 1985	12.5" 24mm	EDIF,EF,MS,OVAL,UB,*'S OFF TO ONE SIDE		
H701-2	NGC 6207	Her	Galaxy SA(s)c	PB,PL,E45,VGMBM
Feb 25 1982	12.5" 16mm	DIF,MF,PS,ELONG,FNUC,BY M13,4F*'S W SIDE,STELL NUC		
Jul 05 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm	WITH BARLOW THERE IS A B* IN GAL CENTER		
Jun 17 1980	12.5" 24mm	GREAT,FIRST SIGHTING OF THIS OBJECT,SAME 24MM FOV AS M13		
Jun 20 1980	12.5" 24mm			
Mar 27 1981	12.5" 24mm			
H702-2	NGC 7392	Aqr	Galaxy SA(s)bc	PB,PS,LE120,MBM
Jul 10 1981	12.5" 24mm	NO BRT TOWARDS CENTER,SEEMS TO BE A WHISP IN THE S ARM,MF,MS,DIF		

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H702-2	NGC 7392	Aqr	Galaxy SA(s)bc	PB,PS,LE120,MBM
Jul 10 1981	12.5" 24mm		NO BRT TOWARDS CENTER,SEEMS TO BE A WHISP IN THE S ARM,MF,MS,DIF	
H703-3	NGC 2385	Gem	Galaxy Sb	VF,VS,R,BM
Dec 06 2002	12.5" 9mmT6		EDIF,EF,ES,COMES AND GOES WITH AVERTED VISION	
H704-2	NGC 1184	Cep	Galaxy S0/a	F,PL,ME
Jan 30 2003	12.5" 9mmT6		MB,PL,EDGE ON,FNUC,SBM,CENTRAL BULGE,R=G	
Sep 06 2002	12.5" 9mmT6		MB,ML,ELONG,SOMEWHAT EDGE ON,HISB MIDDLE,GMBM,CENTRAL BULGE	
H705-2	NGC 7354	Cep	Planetary Neb 4+3b	PLN,B,S,R,PGVLBM
Jul 09 1983	12.5" 12mm		VF,PS,2F*S ON EDGE,VERY R,SOFT UB GLOW	
Sep 02 2008	31" 17mmT4		PB,ML,R,UB,GREENISH,NO C*,SOFT,OIII DOESNOT HELP MUCH,R=E	
Sep 12 2012	36" 17mmT4		PB,ML,R,UB,MHISB,BLUEISH GREEN,NO C*,OIII DARKENS NEB AND BRINGS OUT MORE DET,PATCHY,DARK AREAS,R=E	
H705-3	NGC 3478	UMa	Galaxy SB(rs)bc	EF,S,R
Mar 15 1985	12.5" 16mm		EEDIF,EF,MS,2F*S TO S,PATCY,UB,NND	
H706-2	NGC 7538	Cep	Nebula E	VF,L,2PB*INV
Sep 18 2004	31" 17mmT4		W/OIII,PB,PL,UB,SHISB,2 B*S IN CTR,WHISPS OF NEB,SPIRAL SHAPE,GREENISH,R=E	
H707-2	NGC 185	Cas	Galaxy E3 pec	PB,VL,IR,VGMBM,R
Aug 19 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm		DIF,EF,PL,AVERTED VISION	
Jul 17 1980	12.5" 24mm			
Jul 31 1981	12.5" 24mm		DIF,SETLLAR NUC,DIF HALO,R TO OVAL IN SHAPE	
Sep 18 1980	12.5" 24mm			
Sep 28 2013	36" 17mmT4		PB,PL,OVAL,UB,MOD HISB,SEVERAL VF* IN GAL AREA,R=G	
H708-2	NGC 2798	Lyn	Galaxy SB(s)a pec	PB,S,STELLAR
Dec 26 2003	31" 17mmT4		PB,PL,R,LARGE BNUC,MHISB,PAIR=2799,R=G	
H708-3	NGC 4117	CVn	Galaxy S0^:	VF,VS
Feb 25 2004	31" 17mmT4		MB,MS,OVAL,SMALL BNUC,MOD HISB MIDDLE,PAIRS/4118/MAC,R=G	
H709-3	NGC 2500	Lyn	Galaxy SB(rs)d	F,L,R,VGBM,R,AM ST
Jan 08 2003	12.5" 9mmT6		MB,VL,FARMS,STELL NUC,F* IN EDGE OF ARM,R-OVAL,SPR STR SUSP	
H710-2	NGC 5311	CVn	Galaxy S0/a	CF,CS,R,SBM,P OF 2
Jan 28 1982	12.5" 16mm		MF,PS,DNUC,SBM,PAIR/5313	
H710-3	NGC 2541	Lyn	Galaxy SA(s)cd	F,L,E,VGBM
Jan 08 2003	12.5" 9mmT6		EDIF,VF,VL,LARGE OVAL PATCH UB,F* IN GAL EDGE,STELL NUC SUSP	
H711-2	NGC 5313	CVn	Galaxy Sb?	PB,PS,VLE,GLBM,F OF2
Jan 28 1982	12.5" 16mm		DIF,MF,MS,MOD HISB,OVAL-PATCH,NND,PAIR/5311	
H711-3	NGC 2552	Lyn	Galaxy SA(s)m?	EF,CL,LE45
Feb 01 2005	31" 17mmT4		DIF,VF,EL,PATCH,UB,BROKEN PATCHES,SEVERAL F*S IN GAL,R=F	
H712-2	NGC 5326	CVn	Galaxy SAa:	CF,S,VLE,SBM
Jan 26 1982	12.5" 16mm		DIF,MF,MS,BM,NUC DET	
H712-3	NGC 2684	UMa	Galaxy S?	F,PL,R,GBM,45*NR
Apr 07 2008	31" 17mmT4		MF,PL,R,LARGE FNUC,MOD HISB,PAIRS=NGC'S,R=G	
H713-2	NGC 5350	CVn	Galaxy SB(r)b	CF,PL,BM,*7P,1ST OF4
Jan 28 1982	12.5" 16mm		DIF,MF,PL,R,UB,NND,PAIR/5353/5354	
Jun 01 2008	31" 17mmT4		PB,VL,R,,LBNUC,FAINT HALO,ARMS SUSP,PAIRS=5353/5354/5355,R=F	
H713-3	NGC 2856	UMa	Galaxy S?	CF,CS,LE,BM
Apr 07 2008	31" 17mmT4		PB,PL,OVAL,UB,NND,HISB,PAIR=2854,R=G	
H714-2	NGC 5353	CVn	Galaxy S0 sp	PB,S,R,2ND OF 4

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H714-2	NGC 5353	CVn	Galaxy S0 sp	PB,S,R,2ND OF 4
Jan 28 1982	12.5"	16mm	MB,ML,ELONG,BNUC,GBM,NUC DET,PAIR/5350/5354	
Jun 01 2008	31"	17mmT4	VB,VL,ELONG,LBNUC,HISB MIDDLE,MBM,CLOSE PAIR=5354,OTHER NGC'S,R=E	
H714-3	NGC 2854	UMa	Galaxy SB(s)b	CF,CS,VLE,PGLBM
Apr 07 2008	31"	17mmT4	PB,PL,ELONG,UB,NND,HISB,PAIR=2856,R=G	
H715-2	NGC 5354	CVn	Galaxy S0 sp	PF,S,R,3RD OF 4
Jan 28 1982	12.5"	16mm	DIF,PF,PS,DNUC,SBM,PAIR/5350/5353	
Jun 01 2008	31"	17mmT4	VF,VL,ELONG,LBNUC,HISB MIDDLE,MBM,CLOSE PAIR=5353,OTHER NGC'S,R=G	
H716-2	NGC 5371	CVn	Galaxy SBbc	PB,L,R,BMFn
Jan 28 1982	12.5"	16mm	DIF,MB,PL,DNUC,2*S OFF W SIDE,1*NE,SMALL NUC,SOME KNTY STR SUSP,R,FACE ON	
H716-3	NGC 3922	UMa	Galaxy S0/a	VF,VS
Mar 04 2006	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,HISB,GMBM,* OFF NUC,R=G	
H717-2	NGC 2998	UMa	Galaxy SAB(rs)c	PF,PL,E51,BMN,R
Mar 06 2010	31"	17mmT4	PB,PL,ELONG,UB,NND,HISB,PAIRS=NGC'S,R=G	
Mar 15 1985	12.5"	16mm	NO FIND,CIRCLES GOOD	
H717-3	NGC 4100	UMa	Galaxy (R')SA(rs)bc	PB,VL,VME161,VGVLBM
Apr 26 2006	31"	17mmT4	PB,PL,SBNUC,MHISB,VERY SMALL BRT STELLAR LIKE NUC,UB THROUGHOUT,R=E	
H718-2	NGC 3415	UMa	Galaxy SA0+:	PB,S,VLE,STELL,3S*NR
Mar 15 1985	12.5"	16mm	NO FIND,CIRCLES HOT	
H719-2	NGC 2543	Lyn	Galaxy SB(s)b	F,PL,IR,VGBM,D*NR
Nov 24 2003	31"	17mmT4	MF,ML,R,SMALL FNUC,BAR DET,KNTS DET,DUST SUSP,R=G	
H719-3	NGC 4231	CVn	Galaxy SA0+ pec?	VF,VS,N OF DNEB
Mar 22 2004	12.5"	12mmT4	DIF,VF,MS,PATCH,UB,NND,COMP=4232,PAIRS=4248/M106,R=F	
H720-2	NGC 3202	UMa	Galaxy SB(r)a	CF,S,R,VGBM,1ST OF 3
Jan 29 2014	36"	17mmT4	PB,VL,OVVAL,SMALL BNUC,F* OFF EDGE,EXCELLENT TRIO,PAIRS=3205/3207,R=E	
H720-3	NGC 4232	CVn	Galaxy SBb pec:	VF,VS,S OF DNEB
Mar 22 2004	12.5"	12mmT4	DIF,VF,MS,PATCH,UB,NND,COMP=4231,PAIRS=4248/M106,R=F	
H721-2	NGC 3205	UMa	Galaxy S?	CF,S,R,VGBM,2ND OF 3
Jan 29 2014	36"	17mmT4	PB,VL,OVVAL,LARGE BNUC,F* JUST OFF EDGE,EXCELLENT TRIO,PAIRS=3202/3207,R=E	
H721-3	NGC 4741	CVn	Galaxy Scd:	VF,S,R,PSBM
Mar 17 2007	31"	17mmT4	MB,MS,OVVAL,VERY SFNUC,PAIR=MAC,R=G	
H722-2	NGC 3207	UMa	Galaxy S?	CF,S,R,STELLAR,3 OF3
Jan 29 2014	36"	17mmT4	VB,PL,OVVAL,BNUC,MBM,EXCELLENT TRIO,PAIRS=3202/3205,R=E	
H724-3	NGC 5087	Vir	Galaxy SA0:	CF,VS,IF
Apr 26 2006	31"	17mmT4	PB,ML,ELONG,OVVAL,LARGE BNUC,HISB MIDDLE,R=G	
H725-3	NGC 4242	CVn	Galaxy SAB(s)dm	VF,CL,IR,VGBM,R
Jan 26 1982	12.5"	24mm	VDIF,MF,VL,OVVAL,NND,* IN E SIDE APPROX 11MAG,PATCHY	
H726-2	NGC 2532	Lyn	Galaxy SAB(rs)c	PB,PL,R,VGLBM,R,2*NF
Nov 24 2003	31"	17mmT4	MB,PL,R,SMALL FNUC,SPR STR SUSP,PATCHY ARMS DET,R=G	
H727-2	NGC 2649	Lyn	Galaxy SAB(rs)bc:	F,L,R,R
Nov 24 2003	31"	17mmT4	PF,PL,OVVAL,PATCH,UB,NND,* IN EDGE,FACE ON,F* OFF EDGE,R=G	
H727-3	NGC 6239	Her	Galaxy SB(s)b pec?	VF,E,BIN,NPSF
Feb 25 1982	12.5"	16mm	EDIF,MF,MS,F*N SEVERAL GAL DIA,SBM,OVVAL,NUC SUSP	
Mar 27 1982	12.5"	16mm	VDIF,VF,MS,PATCHY,UB,NND	
H728-2	NGC 3583	UMa	Galaxy SB(s)b	PB,PL,R,VGMBM
Mar 15 1985	12.5"	12mm	PB,MS,R,SBM,MOD HISB,B*S AROUND OBJECT	
H729-2	NGC 3614	UMa	Galaxy SAB(r)c	F,PL,LE90,GLBM,R
Mar 15 1985	12.5"	16mm	DIF,PF,PL,OVVAL-PATCHY,B* TO N,TRI F*S SURROUNDS OBJECT	

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H729-2	NGC 3614	UMa	Galaxy SAB(r)c	F,PL,LE90,GLBM,R
Mar 15 1985	12.5" 16mm	DIF,PF,PL,OVAL-PATCHY,B* TO N,TRI F*S SURROUNDS OBJECT		
H730-2	NGC 3726	UMa	Galaxy SAB(r)c	PB,VL,LE0,VSMBM,*11N
Mar 15 1985	12.5" 16mm	DIF,MF,VL,F* ON N EDGE,UB,SOME KNTY STR SUSP		
Oct 22 1982	12.5" 24mm	MB,PL,UB,OBLONG,F* IN N TIP,NND		
H730-3	NGC 6186	Her	Galaxy (R')SB(s)a	EF,VS,E
Mar 27 1982	12.5" 16mm	VDIF,EF,MS,ELONG,F*S SEVERAL GAL DIA,SLIGHTLY ELONG,NND,UB		
H731-2	NGC 3769	UMa	Galaxy SB(r)b:	PB,S,PME
Apr 09 2008	31" 17mmT4	VB,VL,ELONG,EDGE ON,UB,NND,MOD HISB,INTERACT=3769A,TIPS TOUCHING,R=E		
Mar 15 1985	12.5" 16mm	PF,MS,ELONG,UB		
H732-2	NGC 3782	UMa	Galaxy SAB(s)cd:	F,S,ATT TO*15,*INV
Mar 15 1985	12.5" 16mm	EDIF,VF,VS,EMBEDDED IN 2F*S,UB,PATCHY,CAN BARELY DET GLOW BETWEEN *S		
H733-2	NGC 4013	UMa	Galaxy S_b sp	B,CL,ME62,VSMBM*10
Apr 26 2006	31" 17mmT4	VB,EL,ELONG,PATCH,VB* CENTER OF NUC,12TH MAG,SS?,LARGE CENTRAL BULGE,SHISB,R=E		
H734-2	NGC 2326	Lyn	Galaxy SB(rs)b	VF,PL,IR,PSMBM,ST P
Feb 17 2004	31" 17mmT4	PF,PL,OVAL,LARGE FNUC,SLIGHTLY BM,PAIR=2326A,R=F		
H735-2	NGC 2329	Lyn	Galaxy S₀:	VF,VS,STELLAR
Dec 07 2005	31" 17mmT4	PB,PL,R,LARGE BNUC,MOD HISB MIDDLE,ABELL 569,R=G		
H735-3	NGC 6241	Her	Galaxy Sc	EF,PS
Mar 27 1982	12.5" 16mm	EDIF,EF,VS,NND,OVAL-PATCHY,UB		
H736-2	NGC 2340	Lyn	Galaxy E	PF,S,R,GLBM,R
Feb 01 2005	31" 17mmT4	MF,ML,ELONG,LARGE FNUC,MOD HISB MIDDLE,NGC2340 CLUSTER,R=G		
Jan 30 2005	31" 17mmT4	MB,VL,ELONG,PATCH,UB,NND,NGC2340 CLUSTER,R=G		
H736-3	NGC 5878	Lib	Galaxy SA(s)b	PB,PL,PME0,PSMBM
May 02 1981	12.5" 16mm	DIF,PF,VL,EDGE ON,FNUC,MOD FAINT HALO		
H737-3	NGC 5902	Boo	Galaxy S	VF,VS,STELLAR
Apr 23 2003	12.5" 9mmT6	MF,MS,R,BNUC,MOD HISB,GMBM,R=F		
H738-2	NGC 3893	UMa	Galaxy SAB(rs)c:	B,PL,R,MBM
Feb 12 1983	12.5" 16mm	MB,PL,BNUC,B* IN W SIDE,SBM,OVAL		
Mar 15 1985	12.5" 16mm	MB,ML,FNUC,R,F* ON EDGE,SBM,HISB		
H738-3	NGC 5989	Dra	Galaxy Scd?	VF,VS
Apr 23 2003	12.5" 9mmT6	DIF,MF,ML,PATCH,NND,SOMEWHAT HISB,R=F		
Jul 09 1983	12.5" 16mm	EDIF,VF,MS,PATCH,NND,SOMEWHAT HISB		
Jun 01 2003	12.5" 9mmT6	SAME		
H739-3	NGC 6015	Dra	Galaxy SA(s)cd	VF,PL,R,VGBM
Jul 09 1983	12.5" 16mm	MB,PL,OVAL,MOD HISB,3F*S OFF TO N,B*NW CLOSE BY,NND		
Jul 11 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm	LOOKS LIKE A SMALL CLUSTER,APPROX 4 *S?		
Jul 22 1981	12.5" 16mm	DIF,OVAL,F* TO N SIDE,SPR STR SUPS,14MAG *		
Jun 01 2003	12.5" 9mmT6	MB,VL,ELONG,OVAL,NND,SHISB,F*S IN TIP,CIGAR SHAPE,CENTRAL BULGE,R=G		
Jun 20 1980	12.5" 24mm			
H740-3	NGC 6140	Dra	Galaxy SB(s)cd pec	CF,PL,IR
Jul 09 1983	12.5" 16mm	DIF,MF,PL,ELONG,OVAL,NND		
Jun 21 2003	12.5" 9mmT6	MF,VL,OVAL,PATCH,UB,NND,MOD HISB,B* OFF ONE SIDE,R=G		
Jun 22 2003	12.5" 9mmT6	MB,VL,OVAL,UB,NND,R=G		
H741-2	NGC 4047	UMa	Galaxy (R)SA(rs)b:	PB,PS,R
Apr 26 2003	12.5" 9mmT6	MB,ML,OVAL,BNUC,MOD HISB,R=G		

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H741-2	NGC 4047	UMa	Galaxy (R)SA(rs)b:	PB,PS,R
Apr 26 2003	12.5"	9mmT6	MB,ML,OVAL,BNUC,MOD HISB,R=G	
H741-3	NGC 6434	Dra	Galaxy SBbc:	VF,VS,R,STELLAR,*8S
Jun 24 2003	12.5"	9mmT6	MF,MS,ELONG,*NUC,SHISB,B* CLOSE BY,R=F	
H742-2	NGC 4248	CVn	Galaxy I0? sp	VF,S,PME,PSBM
Mar 08 2010	31"	17mmT4	MB,ML,PATCH,UB,NND,IRR IN SHAPE,* IN EDGE,R=G	
Mar 22 2004	12.5"	12mmT4	PF,MS,OVAL,PATCH,UB,NND,F* IN GAL BY NUC,PAIRS=M106/4231/4232,R=F	
H742-3	NGC 6742	Dra	Planetary Neb 2c	VF,STELLAR
Aug 23 2009	31"	12mmT4	MF,MS,R,UB,GREENISH-GREY,NO C*,VF* IN EDGE OF NEB,OIII HELP A LITTLE,UB,R=G	
Mar 26 2006	31"	17mmT4	MB,ML,OVAL,MHISB,2F*S IN NEB,PALE GREENISH,DARK AREA SUSP/WOIII,NEB BRTER,R=E	
H743-3	NGC 6781	Aql	Planetary Neb 3+3	PLN,F,L,R,VSBM DISC
Aug 31 1984	12.5"	12mm	MF,PL,R,PATCHY,RESEMBLES HELIX NEB	
Jul 10 1981	12.5"	12mm	VL,DIF,R,DARK PATCHES SEEN IN CENTRAL AREA,GRAYISH COLOR DIF NEB	
Sep 02 2008	31"	17mmT4	MB,VL,OVAL,NO C*,ONE SIDE BROKEN,OIII HELPS SOMEWHAT,LG CENT DK AREA BK SIDE,R=E	
H744-2	NGC 4617	CVn	Galaxy Sb	PF,S,IR,ER
Mar 04 2006	31"	17mmT4	MB,MS,EDGE ON,UB,NND,MOD HISB,CIGAR SHAPE,* OFF NUC,R=G	
H744-3	NGC 6814	Aql	Galaxy SAB(rs)bc	PF,PL,R,BM,R
Aug 31 1984	12.5"	16mm	VDIF,PF,MS,SAME	
Jul 10 1981	12.5"	12mm	DIF,NO STR DET,F* ON W EDGE	
Jul 30 2002	12.5"	12mm	PF,PS,FACE ON,3 F*S AROUND OBJECT,SOME SPR STR SUSP,BM	
H745-2	NGC 3320	UMa	Galaxy Scd:	F,PS,ME,*10NF
Mar 15 1985	12.5"	12mm	EDIF,VF,VS,ELONG,PATCHY,NND,VF* IN S TIP,ELONG N TO S,B* TO N SEVERAL GAL DIA,SN	
H745-3	NGC 7423	Cep	Open Cluster 15.0 II 2 m	VF,PL,IF,ER
Jun 20 2004	31"	17mmT4	MF,PL,APPROX 50 *S SAME MAGNITUDE,SOME B*S FOREGROUND,R=G	
H746-2	NGC 5018	Vir	Galaxy E3:	CB,S,R,MBMPBN
Mar 22 2004	12.5"	12mmT4	PB,ML,OVAL,LARGE BNUC,SHISB,HISB MIDDLE,GMBM,PAIR=5022,R=G	
H746-3	NGC 2347	Cam	Galaxy (R')SA(r)b:	VF,S,R,LBM
Feb 01 2005	31"	17mmT4	PB,VL,OVAL,LARGE FNUC,SOFT GLOW,R=G	
Sep 18 1980	12.5"	24mm		
H747-2	NGC 4144	UMa	Galaxy SAB(s)cd? sp	PF,CL,VME109,VGBM
Mar 22 2004	12.5"	12mmT4	MF,PL,EDGE ON,SHISB,SB TOWARDS BAR,CENTRAL BULDGE,R=E	
H747-3	NGC 1961	Cam	Galaxy SAB(rs)c	CF,PL,IF,MBM,ER,*INV
Dec 21 1981	12.5"	16mm	DIF,VF,PS,PATCHY,SBM,F* JUST BESIDE NUC,LINE OF 2F*S TO S	
Jan 30 2003	12.5"	9mmT6	MF,VL,OVAL,PATCH,UB,SHISB,F* IN GAL,CLUSTER 1 OF 8,R=G	
Oct 03 1981	12.5"	16mm	MF,PL,F*E SIDE,NNS,PATCHY,SLIGHTLY OVAL,F* S PART OF GAL	
Sep 18 1980	12.5"	24mm		
H748-2	NGC 4217	CVn	Galaxy Sb sp	PF,L,ME45,**N,P OF 2
Jan 26 1982	12.5"	16mm	VDIF,MF,MS,EDGE ON,HISB,3*S IN PLANE OF GAL,SEEMS TO BE A HOOK IN S ARM	
Mar 27 1981	12.5"	24mm		
H748-3	NGC 2366	Cam	Galaxy Irr	VF,PL,MBM,CVEDTAILS
Dec 21 1981	12.5"	24mm	EDIF,EF,ML,ELONG,SMALL BNUC	
Feb 01 2005	31"	17mmT4	MF,EL,SMALL BNUC,IRR,FARM'S OFF ONE SIDE,2 NUC DET,SMALL B,SMALL F,COMP=2363,R=F	
Sep 18 1980	12.5"	24mm		
H749-2	NGC 4389	CVn	Galaxy SB(rs)bc pec:	PB,PL,IE,VGLBM
Jan 26 1982	12.5"	16mm	DIF,F*SE,MOD HISB,OVAL,MF,PS,ELONG,NND	
H749-3	NGC 2810	UMa	Galaxy E	F,CS,BM

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H749-3	NGC 2810	UMa	Galaxy E	F,CS,BM
Apr 14 2004	31"	17mmT4	MB,ML,R,LARG BNUC,HISB MIDDLE,R=G	
H750-3	NGC 2493	Lyn	Galaxy SB0	CB,S,R,SBM
Feb 17 2004	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,HISB MIDDLE,PAIRS=2495/PGC22463.R=E	
Jan 08 2003	12.5"	9mmT6	MB,ML,FNUC,R,GSBM,F* OFF ONE SIDE	
H751-3	NGC 2965	LMi	Galaxy S0	EF,VS,R,BM,R
Dec 20 2003	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,SHISB,R=G	
H752-3	NGC 2529	Cnc	Galaxy SB(s)d	EF,(SUSPECTED)
Mar 17 2010	31"	17mmT4	MF,ML,OVAL,FNUC,PATCHY AREAS,R=F	
H753-2	NGC 6181	Her	Galaxy SAB(rs)c	PB,PL,VLE,PGMBM
Feb 27 1982	12.5"	16mm	DIF,MF,PS,F*S CLOSE,MOD HISB	
Jul 05 1980	12.5"	24mm		
Jul 14 1980	12.5"	24mm		
H754-2	NGC 5582	Boo	Galaxy E	PB,PS,R,BMFN,*SP
Mar 29 2006	31"	17mmT4	PB,PL,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
H755-2	NGC 5875	Boo	Galaxy SAb:	PB,PL,LE
Apr 23 2003	12.5"	9mmT6	ELONG,PATCH,UB,NND,R=G	
H756-2	NGC 5820	Boo	Galaxy S0 sp	B,E90,SBM,B D*F8'
Jun 21 2003	12.5"	9mmT6	PB,ML,OVAL,BNUC,MOD HISB,LARGE BRT NUC AREA,B** IN FOV,R=G	
May 06 1981	12.5"	24mm	DIF,VF,VS,FAINT HALO,JUST W OF A NICE DOUBLE *	
H757-2	NGC 5879	Dra	Galaxy SA(rs)bc:?	CB,S,E,MBMRN,R
Apr 23 2003	12.5"	9mmT6	ELONG,OVAL,BNUC,MOD HISB,LARGE NUC AREA,HISB MIDDLE,R=G	
Jul 09 1983	12.5"	16mm	MB,ML,ELONG,BNUC,SBM,NO *S,LARGE NUC AREA	
Jul 22 1981	12.5"	16mm	DIF,MF,ML,ELONG TO EDGE ON,GBM,FAINT HALO	
H758-2	NGC 5905	Dra	Galaxy SB(r)b	PF,PS,IR
Apr 23 2003	12.5"	9mmT6	PB,PL,FNUC,MOD HISB,PATCH AREA DET,PAIR=5908,R=G	
Jul 09 1983	12.5"	16mm	DIF,MF,PS,EDGE ON,BNUC,PAIR/5907,BM,TAPPERED ENDS,2F**S AROUND GAL	
Jul 22 1981	12.5"	16mm	PF,MS,EDGE ON,FAINT HALO,PAIR/5908	
Jun 20 1980	12.5"	24mm		
H759-2	NGC 5907	Dra	Galaxy SA(s)c: sp	CB,VL,VME155,VGPSBMN
Apr 23 2003	12.5"	9mmT6	VF,VL,EDGE ON,BNUC,MOD HISB,BEAUTIFUL,DUST LANE,CENTRAL BULGE,R=E	
Jul 09 1983	12.5"	16mm	MB,PS,ELONG,VERY EDGE ON,FNUC,PAIR/5905	
Jul 11 1980	12.5"	24mm		
Jul 14 1980	12.5"	24mm		
Jul 22 1981	12.5"	16mm	EXT EDGE ON,UB,EQ DUST LANE SEEN	
Jun 20 1980	12.5"	24mm	VERY IMPRESSIVE,VB,ELONG	
Mar 27 1981	12.5"	24mm		
H760-2	NGC 5908	Dra	Galaxy SA(s)b: sp	PF,PS,R
Apr 23 2003	12.5"	9mmT6	PB,PL,EDGE ON,FNUC,SOMEWHAT HISB,LARGE NUC AREA,DARK LANE SUSP,PAIR=5905,R=G	
Jul 09 1983	12.5"	16mm	MB,PL,ELONG,EGDE ON,BNUC,DUST LANES SUSP,TAPPERED ENDS	
Jul 22 1981	12.5"	16mm	SOMEWHAT BRT THAN COMP 5905,EDGE ON,DNUC,FAINT HALO	
Jun 20 1980	12.5"	24mm		
H761-2	NGC 5963	Dra	Galaxy S pec	PF,PS,IF
Apr 23 2003	12.5"	9mmT6	PB,PL,OVAL,PATCH,UB,MOD HISB,PAIR=5965,R=G	
Jul 09 1983	12.5"	16mm	MB,PS,BNUC,F* CLOSE BY,R,SBM,PAIR/5965	
H762-2	NGC 5965	Dra	Galaxy Sb	CF,CL,LE
Apr 23 2003	12.5"	9mmT6	PB,PL,ELONG,PATCH,UB,NND,SOMEWHAT HISB,PAIR=5963,R=G	

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H762-2	NGC 5965	Dra	Galaxy Sb	CF,CL,LE
Apr 23 2003	12.5" 9mmT6	PB,PL,ELONG,PATCH,UB,NND,SOMEWHAT HISB,PAIR=5963,R=G		
Jul 09 1983	12.5" 12mm	MOD HISB IN MIDDLE		
Jul 09 1983	12.5" 16mm	MF,PL,EDGE ON,FNUC,SBM,TAPPERED ENDS,PAIR/5963		
H763-2	NGC 5894	Dra	Galaxy SBdm?	PF,PS,E0
Apr 23 2003	12.5" 9mmT6	PB,PL,ELONG,EDGE ON,UB,NND,SOME DUST SUSP,R=G		
Jul 09 1983	12.5" 16mm	EDIF,VF,MS,EDGE ON,SBM,TAPPERED		
H764-2	NGC 5982	Dra	Galaxy E3	CB,S,R,PSBM,R
Apr 23 2003	12.5" 9mmT6	VF,ML,BNUC,R,MOD HISB,GMBM,LARGE NUC,PAIR=5981/5985,R=G		
Jul 09 1983	12.5" 16mm	MB,ML,BNUC,R,BM,SEVERAL OTHER PAIRS		
Jul 11 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm			
Jul 22 1981	12.5" 24mm	VMBM,FAINT HALO,COMP CLOSE 5985		
Jun 20 1980	12.5" 24mm			
H764-3	NGC 4462	Crv	Galaxy SB(r)ab	PB,PS,E130,SBM
May 03 1981	12.5" 16mm	DIF,VF,PS,FAINT HALO		
H765-2	NGC 5987	Dra	Galaxy Sb	PF,CS
Apr 23 2003	12.5" 9mmT6	PB,MS,R,BNUC,MOD HISB,B* CLOSE BY,LARGE NUC,GMBM,R=G		
Jul 09 1983	12.5" 16mm	MB,PS,ELONG,B*W SIDE,MOD HISB,SBM,OTHER PAIRS PRESENT		
H766-2	NGC 5985	Dra	Galaxy SAB(r)b	PB,CL,IE,R
Apr 23 2003	12.5" 9mmT6	MB,VL,OVAL,PATCH,UB,NND,PATCHY KNTS SUSP,PAIR=5981/5982,R=G		
Jul 09 1983	12.5" 12mm	STELL NUC OR *,OTHERS PRESENT		
Jul 09 1983	12.5" 16mm	MF,PL,ELONG,UB,SPR STR SUSP,OTHER COMP		
Jul 11 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm			
Jul 22 1981	12.5" 16mm	DIF,R,SPR STR SUSP,OTHER GAL PRESENT		
Jun 20 1980	12.5" 24mm			
H767-2	NGC 6340	Dra	Galaxy SA(s)0/a	CF,PL,R,VGMBM
Jul 22 1981	12.5" 16mm	ALMOST STELL NUC,DIF HALO,F* SUSP N SIDE		
Jun 22 2003	12.5" 9mmT6	PB,PL,R,BNUC,MOD HISB,SMALL BRT NUC,FACE ON,SPR STR SUSP,PAIR=IC1251/IC1254,R=G		
H767-3	NGC 3298	UMa	Galaxy E/S0	VF,PS,IE
Feb 05 2005	31" 17mmT4	MB,MS,OVAL,LARGE BNUC,SLIGHTLY HISB MIDDLE,R=G		
H768-2	NGC 1569	Cam	Galaxy IBm	PB,S,LE,BNM,*9.5N1'
Jan 30 2003	12.5" 9mmT6	VB,PL,OVAL,BNUC,MOD HISB,TAD POLE SHAPE,F*IN EDGE,DUST LANE SUSP,R=G		
Oct 03 1981	12.5" 16mm	MF,PS,ELONG,SOUTH OF B*,HISB,NND		
Sep 18 1980	12.5" 24mm			
H768-3	NGC 3657	UMa	Galaxy SAB(rs)c pec	CF,VS,R,STELLAR
Apr 03 2005	31" 17mmT4	MF,PS,R,SMALL BNUC,MOD HISB MIDDLE,GMBM,R=G		
H769-2	NGC 2339	Gem	Galaxy SAB(rs)bc	PB,PL,R,GLBM
Feb 21 1984	12.5" 16mm	SAME		
Oct 30 1981	12.5" 12mm	DIF,PF,ML,14* IN GAL E SIDE,MOD HISB,NND		
Oct 31 1980	12.5" 24mm	AMONG FIELD OF RICH **S,UB		
H769-3	NGC 3931	UMa	Galaxy SA0-:	EF,S
Mar 04 2006	31" 17mmT4	PB,PL,R,LARGE FNUC,SMBM,MOD HISB MIDDLE,PAIR=MAC,R=G		
H770-2	NGC 3687	UMa	Galaxy (R')SAB(r)bc?	PB,PS,R,LBM,R
Mar 15 1985	12.5" 16mm	DIF,PF,PS,OVAL,PATCH,NND		
H770-3	NGC 3594	UMa	Galaxy SB0:	VF,VS,STELLAR

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H770-3	NGC 3594	UMa	Galaxy SB0:	VF,VS,STELLAR
Apr 03 2005	31"	17mmT4	PF,ML,OVAL,LARGE FNUC,SOMEWHAT BM,PAIR=PGC34356,R=G	
H771-2	NGC 4504	Vir	Galaxy SA(s)cd	PB,CL,IE,GVLBM,ER
May 01 1981	12.5"	24mm	DIF,PF,PL,FARM	
H771-3	NGC 3733	UMa	Galaxy SAB(s)cd:	EF,S,IR,*6MSF
Apr 04 2005	31"	17mmT4	PF,VL,OVAL,PATCH,UB,NND,B* IN FOV CLOSE BY,SEVERAL OTHERS PRESENT,R=F	
H772-3	NGC 3737	UMa	Galaxy SB0	VF,STELLAR
Apr 04 2005	31"	17mmT4	PB,MS,ELONG,SMALL BNUC,PAIRS=PGC35811/MAC'S,R=G	
H774-2	NGC 4671	Vir	Galaxy E+ pec:	PF,S,R,PSMBM
Mar 27 1982	12.5"	12mm	DIF,VF,VS,FNUC,FORMS TRI OF F*S,R,SBM	
H774-3	NGC 3824	UMa	Galaxy SA(s)a? sp	VF,CS,PME
Dec 07 2005	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB MIDDLE,BM,R=G	
H775-2	NGC 3652	UMa	Galaxy Scd?	PF,CL,LE,VGBM
Apr 26 2006	31"	17mmT4	MF,PL,OVAL,LARGE FNUC,MOD HISB MIDDLE,SOME PATCHY AREAS DET,PAIR=MAC,R=G	
H775-3	NGC 3829	UMa	Galaxy SB(s)b:	VF,VS
Dec 07 2005	31"	17mmT4	PF,MS,R,PATCH,UB,NND,R=P	
H776-2	NGC 4487	Vir	Galaxy SAB(rs)cd	F,VL,ER
May 01 1981	12.5"	24mm	DIF,EF,PL,FARM	
H776-3	NGC 3850	UMa	Galaxy SB(s)c:	EF,PL,LE
Feb 23 2006	31"	17mmT4	MB,VL,OVAL,PATCH,UB,NND,SOMEWHAT HISB,PAIR=MAC,R=G	
H777-3	NGC 4181	CVn	Galaxy E	EF,S,STELLAR
Apr 23 2003	12.5"	9mmT6	PF,MS,PATCH,NND,CLOSE TO *,R=F	
H778-3	NGC 4675	UMa	Galaxy SBb:	CF,S,LE
Mar 26 2006	31"	17mmT4	MF,MS,ELONG,UB,NND,SHISB,PAIR=PGC43028,R=F	
H779-3	NGC 4964	UMa	Galaxy S?	EF,S,LE
Apr 14 2004	31"	17mmT4	MF,MS,PATCH,UB,NND,SHISB,F* ON EDGE,R=F	
H780-3	NGC 4977	UMa	Galaxy SA(r)b	CF,S
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,LARGE FNUC,R=F	
H781-2	NGC 4068	UMa	Galaxy IAm	PF,S,STELLAR
Mar 06 2003	12.5"	9mmT6	DIF,MF,VL,OVAL,R,NND,BRT * IN CENTER,F* OFF ONE SIDE,FACE ON,SPR STR SUSP,R=G	
H781-3	NGC 4973	UMa	Galaxy E/S0	VF,S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,R,SMALL BNUC,BM,PAIRS/MANY,R=F	
H782-2	NGC 3656	UMa	Galaxy (R')I0: pec	PB,S,R,VGBM,*12P
Apr 03 2005	31"	17mmT4	PB,ML,R,UB,NND,MOD HISB,CLOSE COMP=PGC34985,PAIRS=PGC'S/MAC,R=G	
H782-3	NGC 4974	UMa	Galaxy E/S0	VF,S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,R,SMALL BNUC,BM,PAIRS=4973 GROUP,R=F	
H783-2	NGC 3738	UMa	Galaxy Im	PB,PL,BM
Mar 15 1985	12.5"	16mm	PF,PL,OVAL,MOD HISB,UB,PAIR/3756	
H783-3	NGC 4967	UMa	Galaxy E	VF,S,E,*ATT
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,SMALL FNUC,R=F	
H784-2	NGC 3756	UMa	Galaxy SAB(rs)bc	PF,L,LE
Mar 15 1985	12.5"	16mm	PF,PL,OVAL,MOD HISB,UB,PAIR/3738	
H784-3	NGC 5164	UMa	Galaxy SBb	CF,S,IR
Apr 03 2005	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,PAIR=MAC,R=F	
H785-2	NGC 3888	UMa	Galaxy SAB(rs)c	PB,S,LE,PGBM
Feb 23 2006	31"	17mmT4	VF,PL,OVAL,SMALL BNUC,HISB,PAIRS=3889/PGC/MAC,R=G	
Mar 15 1985	12.5"	16mm	MB,MS,OVAL,UB,NND,MOD HISB,PAIR/3898	
H785-3	NGC 5294	UMa	Galaxy	EF,2ST ATT OR INV

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H785-3	NGC 5294	UMa	Galaxy	EF,2ST ATT OR INV
Apr 03 2005	31"	17mmT4	PF,VS,R,UB,NND,F* OFF EDGE,R=F	
H786-2	NGC 3913	UMa	Galaxy (R')SA(rs)d:	F,E
Feb 23 2006	31"	17mmT4	MF,ML,OVAL,LARGE FNUC,PATCHY,R=F	
H786-3	NGC 5368	UMa	Galaxy (R')SABab:	F,CS,R,STELL,*16NF
May 16 2004	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,HISB MIDDLE,GMBM,PAIR=MAC,R=G	
H787-2	NGC 3916	UMa	Galaxy SAb: sp	EF,R,GBM
Feb 23 2006	31"	17mmT4	PF,MS,ELONG TO EDGE ON,PATCH,UB,NND,SOMEWHAT HISB,PAIRS=3921/PGC37013,R=F	
H787-3	NGC 5447	UMa	Knot in Galaxy	PB,S,R,GMBM,CONNM101
Mar 08 2010	31"	17mmT4	MF,MS,PATCH,2 PARTS ONE WITH VF* IN IT,KNOT IN GAL,SQUARE IN SHAPE,PAIRS=NGC'S,R=F	
Nov 24 2006	12.5"	12mmT4	PF,PS,PATCH,UB,VF* ON SIDE/EDGE,KNOT IN M101,R=F	
H788-2	NGC 3921	UMa	Galaxy (R')SA(s)0/a p	PF,S,R,PSPMBM
Feb 23 2006	31"	17mmT4	PB,PL,OVAL,LARGE BNUC,MOD HISB,SMBM,HISB MIDDLE,PAIRS=3916,PGC37013,R=G	
H788-3	NGC 5461	UMa	Knot in Galaxy	B,PS,R,PSBM,CONNM101
Mar 08 2010	31"	17mmT4	MB,PS,BNUC,BRT AREA WITH ELONG ENDS,KNOT IN GAL,PAIRS=NGC'S,R=F	
Nov 24 2006	12.5"	12mmT4	VF,VS,PATCH,KNOT IN M101,R=F	
H789-2	NGC 3972	UMa	Galaxy SA(s)bc	PB,E
Feb 12 1983	12.5"	16mm	VDIF,VF,ML,EDGE ON,UB,TAPERED ENDS,NND,PAIR/3977	
H789-3	NGC 5462	UMa	Knot in Galaxy	PB,PL,IR,GBM,CONNM101
Mar 08 2010	31"	17mmT4	MB,MS,ELONG,UB,KNOT IN GAL,RECTANGULAR SHAPE,UB PATCH,PAIRS=NGC'S,R=F	
Nov 24 2006	12.5"	12mmT4	VF,VS,PATCH,UB,AV FIRST THEN HOLDS,KNOT IN M101,R=F	
H790-2	NGC 3977	UMa	Galaxy Sab	F,S
Feb 12 1983	12.5"	16mm	MB,ML,BNUC,F*N SIDE,OVAL,F*E EDGE,KNTS SUSP,ARMS SHOW GOOD,PAIR/3972	
Mar 02 1984	10"	20mm	MB,VL,FACE ON,SMALL NUC,F* SUSP CLOSE TO NUC,SBM,SOME SPR STR SUSP	
H790-3	NGC 5477	UMa	Galaxy SA(s)m	VF,PL
Mar 06 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,SUSP ONLY,LOCATION,GOOD,PAIR/5451,R=P	
May 16 2004	31"	17mmT4	DIF,PF,VL,OVAL,UB,NND, 2VF*S IN GAL,R=F	
Nov 24 2006	12.5"	12mmT4	VF,MS,OVAL,PATCH,UB,CLOSE TO M101,R=P	
H791-2	NGC 3990	UMa	Galaxy S0-: sp	PF,S,LE,PSLBM
Mar 15 1985	12.5"	12mm	CLOSE COMP TO 3998	
H791-3	NGC 5484	UMa	Galaxy E2	VF,S,R,4'FROM 5485
Mar 06 2003	12.5"	9mmT6	AV,SUSP ONLY,LOCATION GOOD,PAIR/5486/5485,R=P	
H792-2	NGC 4172	UMa	Galaxy S?	F,S,LE,GBM
Apr 23 2003	12.5"	9mmT6	DIF,PF,ML,OVAL,PATCH,FNUC,R=F	
H792-3	NGC 3398	UMa	Galaxy Sa?	VF,S,E,ER
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,PAIRS=IC644/OTHERS,R=F	
H793-2	NGC 4198	UMa	Galaxy S0/a	PF,PS,LE,GBM
Apr 23 2003	12.5"	9mmT6	MB,MS,OVAL,R,PATCH,FNUC,BETWEEN 2*S,R=F	
H793-3	NGC 3499	UMa	Galaxy I0?	VF,VS,STELLAR
Apr 03 2005	31"	17mmT4	MB,PS,R,SMALL BNUC,MOD HISB MIDDLE,R=G	
H794-2	NGC 4644	UMa	Galaxy SAb:	VF,S,R,GBM
Mar 26 2006	31"	17mmT4	MF,MS,ELONG,LFNUC,SOMEWHAT HISB MIDDLE,CLOSE COMP=PGC42725,R=F	
H794-2	NGC 4646	UMa	Galaxy S0?	F,S,4VS*SP
Mar 26 2006	31"	17mmT4	MB,MS,OVAL,LBNUC,* OFF EDGE,GMBM,HISB MIDDLE,PAIR=MAC,R=G	
H794-3	NGC 4054	UMa	Galaxy S	EF,S
Mar 06 2003	12.5"	9mmT6	EDIF,EF,VS,PATCH,AV,COMES AND GOES THEN HOLDS,R=P	
H795-2	NGC 4686	UMa	Galaxy Sa	PF,VS,VME,VSMBM

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H795-2	NGC 4686	UMa	Galaxy Sa	PF,VS,VME,VSMBM
Mar 26 2006	31"	17mmT4	MB,ML,ELONG,LBNUC,FAINT HALO,ARMS,HISB MIDDLE,GMBM,BM,R=G	
H795-3	NGC 4141	UMa	Galaxy SBcd:	VF,PS,LE,GBM,R
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,R=P	
H796-2	NGC 4695	UMa	Galaxy S	EF,PS,VLE,MBMN
Mar 26 2006	31"	17mmT4	MF,MS,ELONG,PATCH,UB,NND,VF* IN TIP,CLOSE COMP NOT DET,R=F	
H796-3	NGC 4195	UMa	Galaxy SB(s)cd	EF
Apr 23 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,SUSP,R=P	
H797-2	NGC 5201	UMa	Galaxy S?	PF,CS,R,VGLBM
Apr 03 2005	31"	17mmT4	MB,ML,OVAL,SMALL BNUC,KEEP B* OUT OF FOV,R=F	
H797-3	NGC 4199	UMa	Galaxy Sb	VF,S
Apr 23 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,R=P	
H798-2	NGC 5278	UMa	Galaxy SA(s)b? pec	PF,R,VS NEB40"F,*N
Apr 03 2005	31"	17mmT4	MF,MS,OVAL,UB,NND,CLOSE COMP=5279,PAIRS=PGC'S,R=F	
H798-3	NGC 4284	UMa	Galaxy Sbc	CF,LE,P OF 2
Feb 04 2005	31"	17mmT4	MB,PS,ELONG,VERY SMALL FNUC,* OFF ONE EDGE,R=F,PAIR=4290,R=F	
H799-2	NGC 5443	UMa	Galaxy SB(s)b?	PF,L,E
Mar 06 2003	12.5"	9mmT6	PB,ML,OVAL,PATCH,SOMEWHAT HISB,F* IN EDGE,SBM,R=G	
H799-3	NGC 4358	UMa	Galaxy S0	CF,CS,LE
Feb 04 2005	31"	17mmT4	VF,ES,R,* NUC OR VF* IN GAL,INTERACT=4364,PAIRS=4362/MAC,R=P	
H800-2	NGC 5475	UMa	Galaxy Sa? sp	PB,S,PME,BM
Mar 06 2003	12.5"	9mmT6	MB,PL,ELONG,FNUC,SBM,R=G	
H800-3	NGC 4362	UMa	Galaxy S?	VF,CS,R,R
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,GRADUALLY BM,PAIRS=4364/4358,R=F	
H801-2	NGC 5486	UMa	Galaxy SA(s)m:	F,PL
Mar 06 2003	12.5"	9mmT6	VDIF,VF,ML,PATCH,NND,PAIR/5485/5484,R=P	
H801-3	NGC 4364	UMa	Galaxy S0	CF,CS,R
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,SLIGHTLY HISB MIDDLE,INTERACT=4358,PAIR=4362,R=G	
H802-2	NGC 4149	UMa	Galaxy S?	F,S,E
Mar 06 2003	12.5"	9mmT6	MF,MS,ELONG,UB,NND,R=F	
H802-3	NGC 4547	UMa	Galaxy E/S0	VF,PS,E,VGBM,*9F,PO2
Mar 26 2006	31"	17mmT4	PF,MS,R,SMALL BNUC,VERY CLOSE COMP=PGC41897,OTHER PAIRS,R=F	
H803-2	NGC 4161	UMa	Galaxy S?	F,S,R
Apr 23 2003	12.5"	9mmT6	PB,ML,ELONG,PATCH,SOMEWHAT HISB,B* SURROUNDS OBJECT,GBM,R=G	
H803-3	NGC 5255	UMa	Galaxy Sb	VF,VS
Apr 03 2005	31"	17mmT4	MF,VS,SMALL BNUC,R=G	
H804-2	NGC 4271	UMa	Galaxy S0-:	PB,PL,IF
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,F* OFF ONE SIDE,ANOTHER OFF END,MOD HISB MID,PAIR=MAC,R=G	
H804-3	NGC 5526	UMa	Galaxy Sbc	VF,S,E,R
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PS,ELONG,PATCH,NND,CLOSE COMP NOT DET,R=P	
H805-2	NGC 4290	UMa	Galaxy SB(rs)ab:	PB,L,R,GMBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,SMALL BNUC,SHISB,HISB MIDDLE,BM,PAIR=4284,R=G	
H805-3	NGC 5540	UMa	Galaxy	EF,VS,R,STELLAR
Mar 06 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,UB,R=P	
H806-2	NGC 4335	UMa	Galaxy E	PB,S,E,GBM
Feb 04 2005	31"	17mmT4	MB,PL,OVAL,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
H806-3	NGC 5777	Dra	Galaxy Sb	VF,VS,LE

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H806-3	NGC 5777	Dra	Galaxy Sb	VF,VS,LE
Apr 14 2004	31"	17mmT4	MF,MS,EDGE ON,LARGE FNUC,CENTRAL BULDGE,DUST SUSP,PAIR=PGC53057,R=F	
H807-2	NGC 5667	Dra	Galaxy Scd: pec	PB,PS,E0
Apr 14 2004	31"	17mmT4	MB,ML,ELONG,SHISB,PATCHY AND DARK AREAS IN CENTRAL REGION DETECTED,R=G	
H807-3	NGC 4549	UMa	Galaxy	EF,PS,E,F OF 2
Mar 26 2006	31"	17mmT4	VF,PS,ELONG,PATCH,UB,NND,OTHER PAIRS,R=P	
H808-2	NGC 5687	Boo	Galaxy S0-?	PF,S,IF,RESOLVA,*10F
Apr 14 2004	31"	17mmT4	MF,MS,ELONG,* BOTH TIPS,LARGE SOFT BNUC,MOD HISB MIDDLE,PAIR=PGC52098,R=F	
May 06 1981	12.5"	24mm	MB,MS,BNUC,DIM HALO,*13 MAG EDGE OF GAL	
H808-3	NGC 5113	UMa	Galaxy Sbc	CF,S,E,(=5109)
Apr 14 2004	31"	17mmT4	VDIF,VF,PS,ELONG,PATCH,UB,NND,PAIR=5109,R=P	
H809-2	NGC 5751	Boo	Galaxy Scd:	F,S,VLE,TRI2*10,11
Apr 14 2004	31"	17mmT4	PF,ML,OVAL,UB,NND,EGG SHAPE,R-F	
H809-3	NGC 5372	UMa	Galaxy S?	CF,S,E,(**INV)
May 16 2004	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB MIDDLE,R=G	
H810-3	NGC 5402	UMa	Galaxy S?	VF,VS,R
May 16 2004	31"	17mmT4	MF,ML,EDGE ON,NND,F* OFF TIP,SLIGHTLY BRTER ALONG BAR,NO NUC BULGE DET,R=F	
H811-2	NGC 6143	Dra	Galaxy SAB(rs)bc:	PB,IR,VGVLBM
Jun 22 2003	12.5"	9mmT6	PB,ML,PATCH,UB,NND,SHISB,LARGE PATCH,BETWEEN 2F*S,R=G	
H811-3	NGC 5821	Boo	Galaxy S?	VF,S
Jun 21 2003	12.5"	9mmT6	VF,MS,PATCH,UB,NND,GET B* OUT OF FOV,PAIRS/5836/OGC53476,R=F	
H812-2	NGC 6338	Dra	Galaxy S0	F,S,R,VGLBM
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL,R,BNUC,SHISB,GMBM,CLOSE COMP=PGC59943,CLUSTER 1 OF 5,R=G	
Mar 04 2006	31"	17mmT4	MB,ML,R,LARGE BNUC,MHISB,PAIRS=6345/OTHERS,R=G	
H812-3	NGC 6088	Dra	Galaxy	VF,VS,LE
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,SHISB,CAN SEPERATE FROM PGC'S,PAIRS=PGC'S,R=G	
H813-2	NGC 4187	CVn	Galaxy E	PB,S,LE
Apr 23 2003	12.5"	9mmT6	PF,PS,OVAL,R,PATCH,FNUC,1 OF 4 COMP,R=F	
H813-3	NGC 6182	Dra	Galaxy Sa	VF,VS,IR
Jun 22 2003	12.5"	9mmT6	PB,ML,OVAL,FNUC,SHISB,SMALL FAINT NUC,SBM,CLOSE COMP=PGC58331,R=F	
H814-2	NGC 4732	UMa	Galaxy E	F,S,VSMBM
Mar 26 2006	31"	17mmT4	MB,MS,ELONG,LARGE BNUC,SOMEWHAT HISB MIDDLE,R=G	
H814-3	NGC 4142	UMa	Galaxy SB(s)d:	VF,S,IF,VGLBM,ER
Mar 06 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,AV,R=P	
H815-2	NGC 4987	CVn	Galaxy E	VF,VS,STELLAR
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,BM,PAIRS=PGC45564/PGC45520,R=F	
H815-3	NGC 4707	CVn	Galaxy Sm:	S,STELLAR
Mar 04 2006	31"	17mmT4	DIF,VF,ML,OVAL,R,VERY SMALL BNUC,BM,STELLAR LIKE NUC,F PATCH AROUND NUC,R=F	
H816-2	NGC 5040	CVn	Galaxy S	F,S,IR,VGMBM
Apr 14 2004	31"	17mmT4	MF,PS,R,SMALL BNUC,PAIR=MAC,R=F	
H816-3	NGC 4801	UMa	Galaxy L	EF,S,LE
Mar 26 2006	31"	17mmT4	MF,PS,OVAL,SMALL BNUC,R=F	
H817-2	NGC 5250	UMa	Galaxy S0	PB,S,R,VGBM
Apr 03 2005	31"	17mmT4	PB,MS,R,SMALL BNUC,SOMEWHAT HISB MIDDLE,R=G	
H817-3	NGC 4834	CVn	Galaxy Sbc	VF,S,IR,BM
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,LARGE NUC,MOD HISB MIDDLE,SMBM,R=F	
Mar 17 2007	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,SOMEWHAT HISB,GMBM,R=F	
H818-2	NGC 5881	Dra	Galaxy SB(s)dm	PF,CS,R,VGBM

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H818-2	NGC 5881	Dra	Galaxy SB(s)dm	PF,CS,R,VGBM
Apr 23 2003	12.5"	9mmT6	DIF,VF,VS,PATCH,UB,NND,R=P	
Apr 23 2003	12.5"	9mmT6	PF,PS,PATCH,UB,NND,R=F	
H818-3	NGC 4932	CVn	Galaxy SA(r)c	CF,S,R,VGLBM
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,SHISB,R=F	
H819-3	NGC 4998	CVn	Galaxy Sc	VF
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,UNKNOWN COMP 3.6' TO S,R=F	
H820-2	NGC 2387	Aur	Galaxy	PB,S,STELLAR
Feb 17 2004	31"	17mmT4	VF,MS,PATCH,NND,R=P	
H820-3	NGC 5009	CVn	Galaxy SBb	VF,R,BET2VS*
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,PATCH,UB,NND,R=F	
H821-2	NGC 2415	Lyn	Galaxy Im?	PB,CS,R,VGVLBM,R,
Jan 08 2003	12.5"	9mmT6	PB,ML,BNUC,MOD HISB,ROUND,2F**S BOTH SIDES,GMBM	
Nov 24 2003	31"	17mmT4	VF,PL,OVAL,VERY LARGE BNUC,HISB MIDDLE,FAINTER HALO DET,HISB,R=E	
H821-3	NGC 5163	UMa	Galaxy E	CF,STELLAR
Apr 03 2005	31"	17mmT4	MB,PS,OVAL,R,SMALL BNUC,R=F	
H822-2	NGC 2426	Lyn	Galaxy E	CF,R,VGBM,R,*8P
Feb 01 2005	31"	17mmT4	VB,ML,R,BNUC,HISB,GMB,BRT CORE WELL DEFINED,PAIRS=2429/2429B,R=E	
H822-3	NGC 5225	CVn	Galaxy S?	CF,PS,IR,LBM
Feb 15 2004	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,R=F	
H823-2	NGC 2693	UMa	Galaxy E3:	PB,LE,PSMBM
Dec 03 1980	12.5"	24mm		
Feb 04 2005	31"	17mmT4	VB,PL,LARGE BNUC,MOD HISB,PAIR=2694,R=G	
Mar 15 1985	12.5"	12mm	DIF,VF,VS,SMALL OVAL PATCH,NO *S	
H823-3	NGC 5238	CVn	Galaxy SAB(s)dm	CF,PL,R,VLBM
Feb 15 2004	31"	17mmT4	DIF,PF,VL,OVAL,UB,NND,R=F	
H824-2	NGC 3917	UMa	Galaxy SAccd:	F,L,VME,VGBM
Jan 29 2014	36"	17mmT4	MB,VL,ELONG,UB,NND,SHISB,CIGAR SHAPE,PAIR=PGC36973,R=GE	
Mar 04 2006	31"	17mmT4	PB,VL,EDGE ON,UB,NND,CENTRAL BULGE,2**S OFF ONE SIDE,R=G	
Mar 15 1985	12.5"	16mm	DIF,MP,MS,EDGE ON,2VF**S S SIDE,UB,NND	
H825-2	NGC 3924	UMa	Galaxy Sm:	PB,S,IF,BM
Mar 04 2006	31"	17mmT4	DIF,VF,PS,PTACH,UB,NND,R=P	
H825-3	NGC 2746	Lyn	Galaxy SB(rs)a	EF,S,R,VGLBM,*12NP1'
Nov 24 2003	31"	17mmT4	MF,PL,OVAL,SMALL FNUC,SBM,LARGE AREA OF ARMS,R=G	
H826-2	NGC 5109	UMa	Galaxy S	CF,S,CE
Apr 14 2004	31"	17mmT4	DIF,PF,MS,ELONG,UB,CENTRAL BULDGE,PAIR=5113,R=F	
H826-3	NGC 2780	Lyn	Galaxy SB?	VF,S,R,S D*P
Dec 26 2003	31"	17mmT4	DIF,VF,PL,OVAL,UB,NND,R=G	
H827-2	NGC 5430	UMa	Galaxy SB(s)b	PB,S,IE,MBM
Mar 06 2003	12.5"	9mmT6	MB,PL,OVAL,PATCH,*NUC,R=F	
H827-3	NGC 2840	Lyn	Galaxy SB(rs)bc	CF,S,R,*10NP2'
Dec 26 2003	31"	17mmT4	MF,MS,OVAL,PATCH,LARGE FNUC,R=G	
H828-2	NGC 2756	UMa	Galaxy Sb	PB,PS,E,VGBM
Jan 08 2003	12.5"	9mmT6	MB,ML,SMOD HISB,PATCH,OVAL,UB,COMP SUSP	
Mar 06 2003	12.5"	9mmT6	MB,ML,R,BNUC,LARGE NUC AREA,MOD HISB MIDDLE,PAIR=PGC25755,R=G	
H829-2	NGC 3669	UMa	Galaxy SBcd: sp	VF,PL,PME135,ER
Apr 03 2005	31"	17mmT4	MF,PL,EDGE ON,UB,NND,NO NUC,NO CENTRAL BULGE,R=E	
H829-3	NGC 2431	Lyn	Galaxy (R')SB(s)a:	EF,VS,R,BM

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H829-3	NGC 2431	Lyn	Galaxy (R')SB(s)a:	EF,VS,R,BM
Feb 01 2005	31"	17mmT4	MF,MS,R,SMALL FNUC,GRAD BM,SOMEWHAT HISB MIDDLE,R=F	
H830-2	NGC 3804	UMa	Galaxy SAB	PB,E
Apr 04 2005	31"	17mmT4	MF,PL,OVAL,UB,NND,SHISB,* ON EDGE,PATCHY AREAS,R=F	
H830-3	NGC 2474	Lyn	Galaxy E0	F,PS,(E),(BMVS*)L*NF
Feb 17 2004	31"	17mmT4	MB,PS,OVAL,SMALL BNUC,COMP=2474,MOD HISB MIDDLE,R=G	
H831-2	NGC 3838	UMa	Galaxy SA0/a?	PB,CS,E,PSBM*12
Dec 07 2005	31"	17mmT4	VB,ML,ELONG,LARGE BNUC,HISB MIDDLE,BM,R=G	
H831-3	NGC 2692	UMa	Galaxy SBab:	VF,S,R,PSBM
Feb 04 2005	31"	17mmT4	MB,PS,OVAL,R,LARGE BNUC,SHISB,*S OFF TO SIDE,PAIR=PGC25130,R=G	
H832-2	NGC 3895	UMa	Galaxy SB(rs)a:	PF,PL,VLE,GBM,F OF 2
Mar 15 1985	12.5"	12mm	PF,PS,OVAL,PATCHY,STELL NUC SUSP,PAIR/3894	
H832-3	NGC 2800	UMa	Galaxy E	VF,S,LE,*ATT,*INV
Mar 26 2003	12.5"	9mmT6	PB,MS,OVAL,NND,BRT * IN GAL,R=G	
H833-2	NGC 3958	UMa	Galaxy SB(s)a	PF,PS,PME,VGBM
Mar 15 1985	12.5"	16mm	CLOSE PAIR/3963	
H833-3	NGC 3870	UMa	Galaxy S0?	CF,CS,R,PSBM
Feb 23 2006	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,HISB MIDDLE,GMBM,R=G	
H834-2	NGC 2726	UMa	Galaxy Sa?	CF,PS,IR,ER
Mar 06 2003	12.5"	9mmT6	MF,ML,EL,UB,NND,MOD HISB,VF* IN GAL,SOMEWHAT BROKEN,R=G	
H834-3	NGC 4511	UMa	Galaxy Sbc	PF,VS,IR,VGBM
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,UB,NND,PATCHY,R=F	
H835-2	NGC 3043	UMa	Galaxy Sb: sp	CF,PS,LE,VGBM,*10N7'
Apr 14 2004	31"	17mmT4	MB,ML,OVAL,PATCH,UB,MHISB,R=G	
Mar 15 1985	12.5"	16mm	NO FIND,CIRCLES HOT	
H836-2	NGC 3725	UMa	Galaxy SBc	CF,S,R,GVLBM,R
Apr 04 2005	31"	17mmT4	MB,ML,OVAL,SMALL BNUC,SLIGHTLY HISB MIDDLE,PAIR=PGC35626,R=G	
H836-3	NGC 2469	Lyn	Galaxy Sbc pec:	F,VS,R,*9SF
Feb 01 2005	31"	17mmT4	MB,PL,OVAL,LARGE FNUC,MOD HISB,PAIR=2473,R=G	
Feb 17 2004	31"	17mmT4	MB,MS,OVAL,HISB MIDDLE,LARGE BNUC AREA THAT IS ELONGATED,BAR?,R=G	
H837-2	NGC 3762	UMa	Galaxy Sa	F,VLE,GBM
Apr 04 2005	31"	17mmT4	PB,MS,EDGE ON,LARGE BNUC,CENTRAL BULGE,HISB MIDDLE,SMBM,R=G	
H837-3	NGC 2488	Lyn	Galaxy S0-:	VF,VS,R,GLBM
Feb 17 2004	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIR=PGC22533,R=G	
H838-2	NGC 3770	UMa	Galaxy SBa	PF,S,R,GBM,R
Apr 04 2005	31"	17mmT4	MB,PS,R,SMALL BNUC,SMBM,MOD HISB MIDDLE,R=G	
H838-3	NGC 2497	Lyn	Galaxy E?	EF,VS
Feb 17 2004	31"	17mmT4	MB,ML,LARGE BNUC,MOD HISB MIDDLE,4 OTHERS PRESENT,R=G	
H839-2	NGC 3796	UMa	Galaxy S?	F,CS,R,MBM
Apr 04 2005	31"	17mmT4	MB,MS,ELONG,OVAL,LARGE BNUC,HISB MIDDLE,R=G	
H839-3	NGC 2505	Lyn	Galaxy SBa	EF,VS
Feb 17 2004	31"	17mmT4	MF,ML,OVAL,SMALL FNUC,FAINT HALO OF ARMS,R=F	
H840-2	NGC 3978	UMa	Galaxy SABbc:	CF,S,LE,BM,*8P6'
Mar 04 2006	31"	17mmT4	PB,PL,R,SMALL FNUC,MOD HISB,SBM,PAIRS=3975/PGC'S,R=G	
H840-3	NGC 2534	Lyn	Galaxy E1? pec	PF,PL,R,PSBM,*8S
Feb 01 2005	31"	17mmT4	MB,MS,LARGE BNUC,SHISB MIDDLE,HALO AROUND NUC,R=G	
H841-2	NGC 5216	UMa	Galaxy E0 pec	PB,S,VLE
Apr 03 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,SMBM,MOD HISB MIDDLE,R=G	

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H841-2	NGC 5216	UMa	Galaxy E0 pec	PB,S,VLE
Apr 03 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,SMBM,MOD HISB MIDDLE,R=G	
H841-3	NGC 2710	UMa	Galaxy SB(rs)b	VF,S
Feb 04 2005	31"	17mmT4	PB,PL,ELONG,PATCH,UB,NND,R=G	
H842-2	NGC 5218	UMa	Galaxy SB(s)b? pec	PB,PL,R,GBM
Apr 03 2005	31"	17mmT4	PB,ML,OVAL,UB,NND,SHISB,PAIR=5216,R=G	
H842-3	NGC 3353	UMa	Galaxy Sb? pec	F,CS,R,PGBM,*S90"
Mar 15 1985	12.5"	12mm	MF,PS,BNUC,R,GBM,F* CLOSE BY,LOC IN BARREN * FIELD	
H843-2	NGC 5370	UMa	Galaxy SB(r)0^	F,S
May 16 2004	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,GMBM,SHISB MIDDLE,R=G	
H843-3	NGC 3757	UMa	Galaxy S0?	VF,R,STELLAR,VS*1DSF
Apr 04 2005	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,HISB MIDDLE,R=G	
H844-2	NGC 5376	UMa	Galaxy SAB(r)b?	CB,PL,VLE,VGMBM
May 16 2004	31"	17mmT4	MB,PL,OVAL,PATCH,SHISB,BRT PATCH IN GAL DET CLOSE TO NUC,PAIRS=5389/5379,R=G	
H844-3	NGC 3795	UMa	Galaxy S	VF,S,ME
Apr 04 2005	31"	17mmT4	MF,MS,EDGE ON,UB,NND,CIGAR SHAPE,R=G	
H845-2	NGC 3668	UMa	Galaxy Sbc	F,PS,IR,GBM,*9NP
Apr 03 2005	31"	17mmT4	PB,PL,OVAL,R,SMALL BNUC,COMP NOT DET,VF* IN EDGE,GBM,HISB MIDDLE,FARM SUSP,R=G	
H846-2	NGC 4256	Dra	Galaxy SA(s)b: sp	PB,L,CE38,BMBN
Feb 04 2005	31"	17mmT4	PB,ML,EDGE ON,SMALL BNUC,CENTRAL BULGE,HISB MIDDLE,BM,DUST SUSP,R=E	
H846-3	NGC 2870	UMa	Galaxy Sbc	CF,S,E,VGLBM
Apr 14 2004	31"	17mmT4	MF,ML,ELONG,UB,F* IN TIP,SLIGHTLY BM,R=G	
H847-2	NGC 4332	Dra	Galaxy SB(s)a	PF,S,VLE,VGBM
Feb 04 2005	31"	17mmT4	MB,PL,ELONG,EDGE ON,LARGE BNUC,ALMOST EDGE ON,MOD HISB MIDDLE,BM,R=G	
H847-3	NGC 3740	UMa	Galaxy S	VF,VS,R,VGBM
Apr 04 2005	31"	17mmT4	MF,ML,OVAL,UB,NND,SHISB,R=G	
H848-2	NGC 4441	Dra	Galaxy SAB0+ pec	PB,S,IR,BM
Feb 04 2005	31"	17mmT4	MB,MS,OVAL,LARGE FNUC,SHISB,R=G	
H848-3	NGC 5007	UMa	Galaxy S0-:	VF,VS
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,R,SMALL BNUC,PAIR=PGC45617,R=F	
H849-2	NGC 4521	Dra	Galaxy S0/a	PB,S,PME,PGBM,*P12S
Feb 04 2005	31"	17mmT4	PB,ML,EDGE ON,LARGE BNUC,HISB,CENTRAL BULGE,HISB MIDDLE,GMBM,PAIR=4512,R=G	
H849-3	NGC 5342	UMa	Galaxy S0	EF,VS
May 16 2004	31"	17mmT4	PB,MS,ELONG,LARGE BNUC,R=F	
H850-2	NGC 4545	Dra	Galaxy SB(s)cd:	F,L,IR,VGBM,S*NF
Feb 23 2006	31"	17mmT4	VF,VL,OVAL,R,UB,NND,* OTTER EDGE,PATCHY AREAS DET,HISB,R=E	
H850-3	NGC 4210	Dra	Galaxy SB(r)b	PF,PS,R,VGBM
Apr 23 2003	12.5"	9mmT6	MF,PL,OVAL,R,PATCH,MOD HISB,PAIR=4221/PGC39058,R=G	
H851-2	NGC 7773	Peg	Galaxy SBbc	PF,CS,R,*13NF NR
Nov 20 2003	31"	17mmT4	MF,ML,R,SMALL FNUC,SHISB,B* OFF EDGE,FARMS,R=G	
H851-3	NGC 4238	Dra	Galaxy Sd	VF,PS,IR,VGLBM
Apr 23 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,UB,NND,R=P	
H852-3	NGC 4391	Dra	Galaxy SA0-:	CF,S,R,SBM,***SP
Feb 04 2005	31"	17mmT4	MB,PS,OVAL,SMALL BNUC,MOD HISB,R=G	
H853-2	NGC 29	And	Galaxy SAB(s)bc:	PB,PL,E0
Sep 12 2002	12.5"	9mmT6	DIF,PF,PL,VF* OR STELL NUC,UB,OVAL,SOMEWHAT HISB	
Sep 14 2012	36"	17mmT4	MB,MS,ELONG,LARGE FNUC,F* CLOSE IN BY NUC REGION,MHISB,R=FG	

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H853-2	NGC 29	And	Galaxy SAB(s)bc:	PB,PL,E0
Sep 14 2012	36"	17mmT4	MB,MS,ELONG,LARGE FNUC,F* CLOSE IN BY NUC REGION,MHISB,R=FG	
H853-3	NGC 3073	UMa	Galaxy SAB0-	VF,S,VGLBM
Jan 08 2003	12.5"	9mmT6	MF,MS,BNUC,OVAL,GMBM,BRT CENTRAL BULGE,PAIR/3079/PGC28990	
Mar 06 2003	12.5"	9mmT6	PF,PS,OVAL,PATCH,FNUC,PAIR=3079,R=P	
H854-2	NGC 128	Psc	Galaxy S0 pec sp	PB,PS,LE2,BM
Sep 04 2002	12.5"	16mm	MF,ML,ELONG,HISB,LARGE NEC BULGE,TAPPERED,GROUP OF GALAXIES	
Sep 24 1981	12.5"	16mm	DIF,MF,VS,FNUC,SOME F*S IN AREA,SBM	
H854-3	NGC 7760	Peg	Galaxy E?	CB,VS,R,PSBM,*12ATT
Sep 05 2007	31"	17mmT4	PB,PS,R,UB,NND,SHISB,B* IN EDGE OF GAL,R=F	
H855-3	NGC 7805	Peg	Galaxy SAB0^: pec	EF,S,R,SBM,SP OF 2
Oct 06 2004	31"	17mmT4	PB,MS,R,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,PAIRS=7806,PGC111,MAC,R=G	
H856-2	NGC 194	Psc	Galaxy E	PB,S,R,VGBM
Sep 04 2002	12.5"	9mmT6	MF,VL,OVAL,BRIGHT NUC,MOD HISB,PAIR/198/200	
H856-3	NGC 7806	Peg	Galaxy SA(rs)bc? pec	EF,S,R,NF OF 2,STELL
Oct 06 2004	31"	17mmT4	PB,MS,R,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,PAIRS=7805,PGC111,MAC,R=G	
H857-2	NGC 198	Psc	Galaxy SA(r)c	F,S,VGBM
Sep 04 2002	12.5"	9mmT6	DIF,PF,VL,OVAL PATCH,PAIR/200/194	
H858-2	NGC 200	Psc	Galaxy SB(s)bc	PB,S,VGBM
Sep 04 2002	12.5"	9mmT6	DIF,PF,VL,OVAL PATCH,PAIR/198/194	
H858-3	NGC 7046	Equ	Galaxy SB(rs)cd	EF,PL,R,LBM
Aug 03 2002	12.5"	12mm	EEDIF,EF,PS,OVAL PATCH WITH AVERTED VISION	
Sep 23 2003	31"	17mmT4	PB,PL,OVAL,PATCH,FNUC,LARGE NUC AREA,SOMEWHAT HISB,R=G	
H859-2	NGC 693	Psc	Galaxy S0/a?	PF,S,E90,VGLBM,*10NF
Sep 04 2002	12.5"	9mmT6	PB,PL,MOD HISB,* OF EDGE,PATCH,ELONG,UB,NND	
H859-3	NGC 7081	Aqr	Galaxy Sb pec?	F,S,R,MBM,*14S
Aug 03 2002	12.5"	12mm	EDIF,VF,PS,OVAL PATCH,UB,F* OFF ONE SIDE	
Sep 14 2012	36"	17mmT4	MF,MS,OVAL,LARGE NUC,HISB,PAIRS=PGC66904/MAC,R=F	
H860-2	NGC 196	Cet	Galaxy SB0 pec:	F,PS,R,PSMBM
Sep 04 2005	31"	17mmT4	PB,PL,SMALL BNUC,GMBM,HISB MIDDLE,PAIRS=NGC'S,EXCELLENT HICKSON GROUP,R=E	
H860-3	NGC 7680	Peg	Galaxy S0-:	VF,S,R,LBM,R
Sep 05 2007	31"	17mmT4	MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,GMBM,R=G	
H861-2	NGC 2320	Lyn	Galaxy E	PB,S,IR,GBM,*8SP
Feb 17 2004	31"	17mmT4	MF,PL,OVAL,LARGE BNUC,HISB MIDDLE,GMBM,PAIR=2322,R=G	
H861-3	NGC 39	And	Galaxy SA(rs)c	VF,PS,R
Sep 12 2002	12.5"	9mmT6	VDIF,VF,PS,OVAL-ROUND,F* IN GAL,UB,NND,PAIR/43	
Sep 14 2012	36"	17mmT4	MF,MS,R,NND,* IN GAL,DARK AREAS SUSP,FACE ON,R=FG	
H862-2	NGC 2332	Lyn	Galaxy S0:	F,S,R,PSBM
Jan 30 2005	31"	17mmT4	MF,MS,ELONG,LARGE BNUC,MOD HISB,PAIR=2330,R=G	
H862-3	NGC 7223	Lac	Galaxy SB(rs)bc	EF,PS,LE,R,AM3ST
Sep 11 2004	31"	17mmT4	DIF,PF,PS,OVAL,UB,NND,SHISB,VERY F* IN GAL,CLOSE MAC COMP,R=F	
H863-2	NGC 257	Psc	Galaxy Scd:	PL,LE,GBM,R
Sep 28 2013	36"	17mmT4	MF,ML,OVAL,LARGE FNUC,GBM,F* OUTER EDGE,R=FG	
H863-3	NGC 7248	Lac	Galaxy SA0-:	VF,VS,MBM
Sep 11 2004	31"	17mmT4	MB,MS,ELONG,LARGE BNUC,HISB MIDDLE,SMBM,R=G	
H864-3	NGC 7250	Lac	Galaxy Sdm?	VF,S,ME165
Sep 11 2004	31"	17mmT4	MB,MS,ELONG,LARGE FNUC,B* ON TIP,SBM,R=G	
H865-2	NGC 4105	Hya	Galaxy E3	PF,PS,R,PSBM,R,P OF2

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H865-2	NGC 4105	Hya	Galaxy E3	PF,PS,R,PSBM,R,P OF2
Mar 29 2006	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,GMBM,HISB,PAIR=4106,R=G	
H865-3	NGC 1985	Aur	Nebula R	CF,S,R,PSBM
Dec 20 2003	31"	25mm	MB,MS,BRT CENTRAL *.SOMEWHAT MOD HISB NEBULOUSITY,PATCHY,R=E	
H866-2	NGC 4106	Hya	Galaxy SB(s)0+	PF,PS,R,PGBM, F OF 2
Mar 29 2006	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,GMBM,HISB,PAIR=4105,R=G	
H866-3	NGC 13	And	Galaxy (R)Sab:	VF,VS,S ST+NEB
Sep 12 2002	12.5"	9mmT6	MB,PL,ELONG,SBM,F* IN TIP	
Sep 14 2012	36"	17mmT4	MB,ML,EDGE ON,SMALL BNUC,HISB MIDDLE,SOMEWHAT CENTRAL BULGE,VF* TOUCHING NUC,R=G	
H867-2	NGC 4194	UMa	Galaxy IBm pec	PB,VS,VSBM*12
Apr 23 2003	12.5"	9mmT6	PB,ML,OVAL,R,BNUC,MOD HISB,GMBM,R=G	
H868-2	NGC 2814	UMa	Galaxy Sb:	F,S,IF,1ST OF 2
Apr 14 2004	31"	17mmT4	MB,ML,ELONG,LARGE FNUC,SHISB,PAIRS/IC2458/2820,R=G	
Jan 08 2003	12.5"	9mmT6	MF,PL,ELONG,OVAL,NND,SLIGHTLY HISB,PAIR/2820/IC2458	
H868-3	NGC 12	Psc	Galaxy SAB(rs)c:	EF,PL,VGLBM
Dec 12 2012	36"	17mmT4	DIFF,PF,MS,R,NND,VF* OFF WEST SIDE,R=F	
H869-2	NGC 2820	UMa	Galaxy SB(s)c pec sp	F,S,E,2ND OF 2
Apr 14 2004	31"	17mmT4	MB,VL,EDGE ON,UB,NND,SHISB,PAIRS/IC2458/2814,R=E	
Jan 08 2003	12.5"	9mmT6	MB,ML,NICE EDGE ON,DUST SUSP,AREAS BROKEN,NND,SOMEWHAT HISB,PAIR/IC2458/2814	
H869-3	NGC 125	Psc	Galaxy (R)SA0+ pec:	VF,S,BM,D*SP
Sep 04 2002	12.5"	16mm	DIF,PF,PS,PATCH,NND,2F*S ONE EDGE,GROUP OF GALAXIES	
Sep 04 2002	12.5"	9mmT6	HISB,BRIGHT CENTRAL BULGE,R	
H870-2	NGC 3259	UMa	Galaxy SAB(rs)bc:	F,S,R,GBM
Feb 04 2005	31"	17mmT4	MB,ML,LARGE FNUC,SHISB,SOFT NUC,R=G	
Mar 15 1985	12.5"	16mm	EDIF,VF,VS,PATCHY,UB,NND,NO *S	
H870-3	NGC 182	Psc	Galaxy (R')SAB(rs)a p:	VF,S,IR,VGBM
Sep 04 2002	12.5"	9mmT6	GMBM,MOD HISB,B* IN FOV	
H871-2	NGC 3266	UMa	Galaxy SAB0^?	CF,VS,R,PSMBM*
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,R=G	
H872-2	NGC 3394	UMa	Galaxy SA(rs)c	CF,S,LE,VGBM
Feb 05 2005	31"	17mmT4	MB,VL,OVAL,UB,NND,SHISB,PAIR=3392,R=G	
H872-3	NGC 192	Cet	Galaxy (R')SB(r)a:	F,PS,PME,BM
Sep 04 2005	31"	17mmT4	PB,PL,SMALL BNUC,GMBM,HISB MIDDLE,PAIRS=NGC'S,EXCELLENT HICKSON GROUP,R=E	
H873-2	NGC 6048	UMi	Galaxy E	F,R,BM
Jun 01 2003	12.5"	9mmT6	DIF,MF,MS,OVAL,PATCH,UB,SHISB,R=F	
H873-3	NGC 201	Cet	Galaxy SAB(r)c	VF,CL,E,VGLBM
Sep 04 2005	31"	17mmT4	DIF,MB,VL,PATCH,UB,NND,PAIRS=NGC'S,EXCELLENT HICKSON GROUP,R=G	
H874-2	NGC 5928	Ser	Galaxy S0	PB,CS,R,PSBM,*7N
May 28 2008	31"	17mmT4	PB,ML,R,LARGE BNUC,GMBM,HISB MIDDLE,R=G	
H874-3	NGC 2322	Lyn	Galaxy SBa:	VF,VS,LE
Feb 17 2004	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,MOD HISB MIDDLE,PAIR=2320,R=F	
H875-2	NGC 6166	Her	Galaxy E+2 pec	PF,S,VLE,VGMBM
Feb 27 1982	12.5"	16mm	VDIF,VF,MS,R,PATCHY,SBM,OVAL	
H876-3	NGC 180	Psc	Galaxy SB(rs)bc	VF,PL,IR,*NP INV
Sep 27 2013	36"	17mmT4	MB,MS,OVAL,PATCH,SMALL BNUC,SHISB,KEEP B* OUT OF FOV,GMB,* OFF SIDE,R=F	
H877-3	NGC 2525	Pup	Galaxy SB(s)c	CF,PL,R,VGLBM,AM ST

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H877-3	NGC 2525	Pup	Galaxy SB(s)c	CF,PL,R,VGV LBM,AM ST
Dec 03 1980	12.5"	24mm		
H878-2	NGC 6824	Cyg	Galaxy SA(s)b:	PB,IF,BM
Jul 06 2002	12.5"	16mm	DIF,PF,MS,OVAL PATCH,UB,12MAG * CLOSE BY	
Jun 21 2003	12.5"	9mmT6	VB,VL,BNUC,VERY HISB,F* OFF TO EDGE,LARGE BRT NUC,GMBM,R=E	
Oct 12 2012	36"	17mmT4	MB,ML,OVAL.LARGE NUC,MHISB,VF* OUTER EDGE IN GAL,GRADUALLY BRT IN MIDDLE,R=FG	
H878-3	NGC 2805	UMa	Galaxy SAB(rs)d	VF,L,R,MBM
Apr 14 2004	31"	17mmT4	DIF,PF,VL,PATCH,UB,NND,R=F	
Jan 08 2003	12.5"	9mmT6	DIF,PF,PL,FNUC,R,UB WITH FAINT NUC,OVAL	
H879-2	NGC 3622	UMa	Galaxy S?	PB,S,R,GBM
Apr 03 2005	31"	17mmT4	MF,MS,OVAL,UB,NND,SHISB,R=G	
H879-3	NGC 4384	UMa	Galaxy Sa	CF,S,IR
Feb 04 2005	31"	17mmT4	MB,MS,OVAL,LARGE NUC,SHISB,GRADUALLY BM,R=G	
H880-2	NGC 3654	UMa	Galaxy S?	F,S,LE15
Apr 03 2005	31"	17mmT4	MB,PS,OVAL,SOMEWHAT HISB,SOMEWHAT BM,R=G	
H880-3	NGC 4566	UMa	Galaxy S	PF,S,IR,GBM
Mar 26 2006	31"	17mmT4	MB,MS,OVAL,R,SBNUC,FAINT HALO AROUND NUC,SMBM,MOD HISB MIDDLE,R=G	
H881-2	NGC 3879	Dra	Galaxy Sdm:	F,PL,ME105
Feb 23 2006	31"	17mmT4	MF,MS,EDGE ON,UB,NND,SHISB,VF* OFF SIDE OF NUC,R=G	
H881-3	NGC 3392	UMa	Galaxy E?	VF,S,PSBM,ST NR
Feb 05 2005	31"	17mmT4	PB,MS,R,SMALL BNUC,MOD HISB MIDDLE,PAIR=3394,R=G	
H882-2	NGC 3225	UMa	Galaxy Scd:	CF,PL,LE,VGBM
Apr 23 2003	12.5"	9mmT6	DIF,MF,PL,ELONG,PATCH,NND,SHISB,F* OFF ONE SIDE,R=F	
Jan 08 2003	12.5"	9mmT6	DIF,PF,MS,FNUC,OVAL,SBM,F* ON EDGE,LARGE CENTRAL REGION	
H882-3	NGC 5671	UMi	Galaxy SB(r)b	VF,PL,R,BM
Jun 01 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,UB,AV HOLDS,R=P	
H883-2	NGC 3238	UMa	Galaxy SA(r)0⁺:	F,S,R,PSLBM
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,SMALL BNUC,SHISB,BAR SUSP,PAIR=PGC30649,R=G	
H883-3	NGC 6071	UMi	Galaxy SB(s)b	EF,VS
Jun 01 2003	12.5"	9mmT6	EDIF,VF,VS,PATCH,AV HOLDS,R=P	
H884-2	NGC 3517	UMa	Galaxy SAB:	EF,S,R,VGBM
Apr 03 2005	31"	17mmT4	MF,PS,R,SMALL BNUC,COMP=PGC33526,R=F	
H884-3	NGC 6079	UMi	Galaxy E	VF,VS
Jun 01 2003	12.5"	9mmT6	PF,PS,R,BNUC,R=F	
H885-2	NGC 3625	UMa	Galaxy SAB(s)b:	F,S,LE135
Apr 03 2005	31"	17mmT4	MB,PL,OVAL,UB,SHISB,PAIRS=PGC/MAC,R=G	
H886-2	NGC 3674	UMa	Galaxy S0 sp	PF,IF
Apr 03 2005	31"	17mmT4	MB,MS,ELONG,EDGE ON,SMALL BNUC,GMBM,MOD HISB MIDDLE,PAIR=MAC,R=G	
Mar 15 1985	12.5"	16mm	COMP TO SE = 3683,NO DESC GIVEN	
H887-2	NGC 3435	UMa	Galaxy Sb	CF,PS,LE,VGBM
Feb 05 2005	31"	17mmT4	MF,MS,PATCH,SMALL FNUC,R=F	
H888-2	NGC 3470	UMa	Galaxy SA(r)ab:	VF,S,R,VGBM
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,PAIR=PGC33043,R=F	
H888-3	NGC 6103	CrB	Galaxy S?	VF,S,R,VGLBM
Apr 04 2005	31"	17mmT4	MF,MS,R,UB,NND,MOD HISB,R=G	
H889-3	NGC 6089	CrB	Galaxy Compact	VF,S,R,BM
Apr 04 2005	31"	17mmT4	MF,MS,SMALL FNUC,CLOSE COMP=MAC,R=F	

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H889-3	NGC 6089	CrB	Galaxy Compact	VF,S,R,BM
Apr 04 2005	31"	17mmT4	MF,MS,SMALL FNUC,CLOSE COMP=MAC,R=F	
H891-3	NGC 6129	CrB	Galaxy S0	EF,VS,R,LBM
Apr 04 2005	31"	17mmT4	MF,MS,OVAL,LAGE FNUC,PAIR=PGC57915,R=F	
H892-3	NGC 6142	CrB	Galaxy Sb	EF,S,BM
Apr 04 2005	31"	17mmT4	MF,PS,ELONG,SMALL FNUC,PAIR=PGC57979,R=F	
H893-3	NGC 6195	Her	Galaxy Sb	VF,S,R,GBM,BET2*
Feb 27 1982	12.5"	16mm	EDIF,EF,ES,F*N AND S EDGE,OVAL,NND	
H894-2	NGC 5679	Vir	Galaxy Sb	VF,S,R,*12ATT
May 18 2007	31"	17mmT4	MF,PATCH,UB,SOMEWHAT BM,PATCHY,INTERACTING=5679A,R=F	
H895-2	NGC 5257	Vir	Galaxy SAB(s)b pec	VF,S,R,BM,P OF DNEB
May 18 2007	31"	17mmT4	VF,VL,OVAL,R,PATCH,UB,NND,HISB,BROKEN OR PATCHY OUTER EDGE,PAIR=5258,R=E	
H896-2	NGC 5258	Vir	Galaxy SA(s)b: pec	F,S,IR,F OF DNEB
May 18 2007	31"	17mmT4	VF,VL,EL,EON,UB,NND,HISB,VF* IN TIP,FWHISP OF ARMS OUTER EDGE,HOOK SHAPE,R=E	
H897-2	NGC 7218	Aqr	Galaxy SB(rs)cd	PB,LE,R
Jul 10 1981	12.5"	16mm	SOMEWHAT EDGE ON,**S N AND S,NO STR SUSP,DIF,PF,MS	
Sep 10 1980	12.5"	24mm		
H897-3	NGC 2290	Gem	Galaxy (R)SAa:	F,S,GBM
Dec 06 2002	12.5"	9mmT6	VDIF,VF,MS,FNUC,SBM,OVAL,CLUSTER OF 6 GAL	
Nov 17 2012	36"	17mmT4	MB,ML,LBNUC,HISB MIDDLE,HALO,OTHERS,EXCELLENT FOV,R=G	
H898-2	NGC 3107	Leo	Galaxy Sbc:	PF,PL,IR,*8NP 112"
Jan 08 2003	12.5"	9mmT6	MB,MS,OVAL,MOD HISB,B*CLOSE BY,UB	
H898-3	NGC 2289	Gem	Galaxy S0	EF,VS
Dec 06 2002	12.5"	9mmT6	VDIF,VF,MS,PATCH,OVAL,UB,CLUSTER OF 6 GAL	
Nov 17 2012	36"	17mmT4	MB,ML,LBNUC,HISB MIDDLE,HALO,OTHERS,EXCELLENT FOV,R=G	
H899-2	NGC 5323	UMi	Galaxy Sab	VF,PS,LE0
Feb 05 2005	31"	17mmT4	MF,MS,ELONG,EDGE ON,UB,NND,CENTRAL BULGE,R=F	
H899-3	NGC 2333	Gem	Galaxy Sa	VF,S,R,BM
Dec 06 2002	12.5"	9mmT6	PF,MS,MOD HISB,OVAL-PATCH,SBM	
H900-2	NGC 1247	Eri	Galaxy Sbc sp	F,PL,E80
Dec 12 2012	36"	17mmT4	MF,ML,EDGE ON,PA~70,LARGE FNUC,VF* CLOSE TO NUC,SLIGHT CENTRAL BULGE,R=F	
H900-3	NGC 2388	Gem	Galaxy S?	VF,S,R,BM
Dec 06 2002	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,OVAL,PAIR/2389	
H901-3	NGC 2389	Gem	Galaxy SAB(rs)c	VF,S,R,PSBM
Dec 06 2002	12.5"	9mmT6	DIF,PF,MS,PATCH,SBM,OVAL,PAIR/2388	
H902-2	NGC 6555	Her	Galaxy SAB(rs)c	F,L,R,VGLBM
Jul 03 2003	12.5"	9mmT6	PB,PL,PATCH,NND,MOD HISB,R=G	
H902-3	NGC 2578	Pup	Galaxy SB(r)0/a pec	F,VLE,GBM,R,AM50*
Nov 24 2006	12.5"	12mmT4	MF,MS,OVAL,PATCH,UB,SMALL FNUC,SOMEWHAT HISB,PAIR=PGC23449,R=F	
H903-2	NGC 3061	Dra	Galaxy (R')SB(rs)c	VF,PL,RESOLVABLE
Apr 14 2004	31"	17mmT4	DIF,MF,VL,OVAL,PATCH,UB,NND,R=F	
H903-3	NGC 4034	Dra	Galaxy Scd:	EF,S,IF,GVLBM
Mar 06 2003	12.5"	9mmT6	SUSP ONLY,LOCATION GOOD,R=P	
H904-2	NGC 3523	Dra	Galaxy Sbc	F,PL,LBM,
Apr 03 2005	31"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,PAIR=PGC33277,R=F	
Feb 23 2006	31"	17mmT4	MB,ML,R,UB,NND,MOD HISB,PAIR=PGC33277,R=G	
H904-3	NGC 4120	Dra	Galaxy SA(rs)cd:	EF,VS,E
Mar 06 2003	12.5"	9mmT6	DIF,PF,PS,OVAL,PATCH,*NUC,R=F	

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H904-3	NGC 4120	Dra	Galaxy SA(rs)cd:	EF,VS,E
Mar 06 2003	12.5" 9mmT6	DIF,PF,PS,OVAL,PATCH,*NUC,R=F		
H905-2	NGC 3752	Dra	Galaxy Sab	PB,PL
Apr 03 2005	31" 17mmT4	MB,ML,ELONG,EDGE ON,PATCH,UB,NND,R=G		
H905-3	NGC 3961	Dra	Galaxy (R)SB(r)a:	EF,VS
Feb 23 2006	31" 17mmT4	MB,MS,R,BNUC,MUCH BM,MOD HISB MIDDLE,R=G		
H906-2	NGC 5949	Dra	Galaxy SA(r)bc?	F,S,LE45,VGLBM
Apr 23 2003	12.5" 9mmT6	DIF,PB,ML,PATCH,UB,NND,MOD HISB,R=G		
Jul 09 1983	12.5" 16mm	MB,PS,PATCH,MOD HISB		
Jul 22 1981	12.5" 16mm	VDIF,NO SPR STR SEEN,SBM		
H906-3	NGC 4693	Dra	Galaxy Sd	VF,PLE
Feb 23 2006	31" 17mmT4	MF,ML,EDGE ON,UB,NND,CIGAR SHAPE,R=G		
H907-2	NGC 6646	Lyr	Galaxy Sa	F,S,IF
Jun 20 2004	31" 17mmT4	MB,ML,OVAL,LARGE FNUC,SLIGHTLY HISB MIDDLE,R=G		
H907-3	NGC 4749	Dra	Galaxy Sb? sp	VF,CL,E135
Feb 23 2006	31" 17mmT4	MF,MS,EDGO ON,PATCH,UB,NND,MOD HISB,CIGAR SHAPE,R=G		
H908-2	NGC 2650	UMa	Galaxy SB(rs)b:	PB,PL,IF,ER
Feb 04 2005	31" 17mmT4	MB,MS,R,LARGE BNUC,LOC IN TRI OF *S,HISB MIDDLE,BM,R=G		
H908-3	NGC 4857	Dra	Galaxy SABb	EF,VS,IR,VLBM
Feb 23 2006	31" 17mmT4	PF,PS,R,LARGE BNUC,MOD HISB MIDDLE,BM,R=G		
H909-3	NGC 5034	UMi	Galaxy S?	VF,VS,R
Apr 14 2004	31" 17mmT4	MF,MS,OVAL,PATCH,UB,NND,R=F		
H910-3	NGC 3188	UMa	Galaxy (R)SB(r)ab	VF,PL,R
Apr 23 2003	12.5" 9mmT6	DIF,VF,VS,FNUC,SLIGHT ELONG DET,HINT OF COMPANION,R=P		
Apr 23 2003	12.5" 9mmT6	VDIF,EF,ES,PATCH,AV,R=P		
Dec 07 2005	31" 17mmT4	MF,MS,OVAL,PATCH,UB,NND,VF* OFF ONE SIDE,PAIR=3188A,R=F		
H911-3	NGC 3220	UMa	Galaxy Sb: sp	PF,CL,E92,*9F9.5'
Apr 23 2003	12.5" 9mmT6	DIF,VF,ML,EDGE ON,VFNUC,AV,BLINKING GAL,*NUC,COMES AND GOES,R=F		
H913-3	NGC 3408	UMa	Galaxy Sc:	VF,CS,R,2PB*S
Feb 05 2005	31" 17mmT4	PF,ML,OVAL,R,SHISB,LARGE PATCHY NUC,SLIGHTLY BM,R=G		
H914-3	NGC 3440	UMa	Galaxy SBb? sp	VF,S,LE
Feb 05 2005	31" 17mmT4	MF,MS,ELONG,LARGE FNUC,R=F		
H915-3	NGC 3530	UMa	Galaxy S?	VF,S,R,PGBM
Apr 03 2005	31" 17mmT4	MF,PS,ELONG,EDGE ON,SMALL BNUC,SUDDENDLY MBM,PAIR=MAC,R=F		
H916-3	NGC 3102	UMa	Galaxy S0-:	VF,VS,R,BM,*11 SP
Mar 06 2003	12.5" 9mmT6	DIF,PF,PS,PATCH,*NUC,STELL NUC OR F* DETECTED,R=F		
H917-3	NGC 3286	UMa	Galaxy E?	VF,PS,R,PSLBM
Feb 04 2005	31" 17mmT4	MF,MS,SMALL BNUC,GMBM,SOMEWHAT HISB MIDDLE,PAIR=3288,R=G		
H918-3	NGC 3288	UMa	Galaxy SABbc:	EF,CS,R,VGLBM
Feb 04 2005	31" 17mmT4	MF,MS,OVAL,PATCH,UB,NND,PAIR=3286,R=F		
H919-3	NGC 3407	UMa	Galaxy S0-:	VF,VS,R,VS*NR
Feb 05 2005	31" 17mmT4	MF,PS,ELONG,LARGE FNUC,BM,SOMEWHAT HISB MIDDLE,R=F		
H920-3	NGC 3543	UMa	Galaxy S	EF,VS,E0,R
Apr 03 2005	31" 17mmT4	PF,PS,EDGE ON,UB,NND,CENTRAL BULGE,R=F		
H921-3	NGC 3589	UMa	Galaxy Sd:	VF,L,E,VGBM,INTRILST
Apr 03 2005	31" 17mmT4	PF,VL,ELONG,EDGE ON,UB,NND,LARGE EDGE ON PATCH BESIDE TRI OF B*S,R=G		
H922-3	NGC 3671	UMa	Galaxy C	VF,VS,2VS*INV
Dec 07 2005	31" 17mmT4	PF,PS,OVAL,UB,NND,VF* IN EDGE OF GAL,R=F		

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H922-3	NGC 3671	UMa	Galaxy C	VF,VS,2VS*INV
Dec 07 2005	31"	17mmT4	PF,PS,OVAL,UB,NND,VF* IN EDGE OF GAL,R=F	
H930-3	NGC 7165	Aqr	Galaxy SB(r)ab	EF
Sep 06 2002	12.5"	9mmT6	DIF,BF,PS,OVAL PATCH,UB,STREIGHT N OF F* ON FIELD	
H931-3	NGC 7230	Aqr	Galaxy SA(s)bc	VF,S,R,BM
Sep 06 2002	12.5"	9mmT6	DIF,PF,PS,PATCH,UB	
H932-3	NGC 7246	Aqr	Galaxy (R)SA(r)a:	VF,S,VLE,VGBM,*13N
Sep 02 2005	31"	17mmT4	MF,PL,PATCH,NND,MOD HISB,BRT AREAS DET,IRR IN SHAPE,CHUNKY,R=G	
H933-3	NGC 7251	Aqr	Galaxy (R')SA(rs)a?	F,PS,R,GPMBM
Sep 02 2005	31"	17mmT4	MB,PL,R,UB,NND,SOMEWHAT HISB,PAIR=MAC,R=G	
H934-3	NGC 3080	Leo	Galaxy Sa	VF
Mar 08 2010	31"	17mmT4	MF,ML,OVAL,R,LARGE FNUC,SHISB MIDDLE,PAIR=IC585,R=G	
H936-3	NGC 7076	Cep	Planetary Neb 3b	VF,ER
Jun 20 2004	31"	17mmT4	W/OIII,PF,ML,R,ONE SIDE BRIGHTER THAN OTHER,R=F	
H937-3	NGC 4972	UMi	Galaxy S0?	VF,S,IR,BM
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,UNIDENTIFIED COMP CLOSE BY,R=F	
H938-3	NGC 4363	Dra	Galaxy SAB:	EF,PL,IF
Feb 04 2005	31"	17mmT4	PF,ML,OVAL,PATCH,UB,NND,F* OFF ONE EDGE,R=F	
H939-3	NGC 4572	Dra	Galaxy S	EF,S
Feb 23 2006	31"	17mmT4	PF,MS,EDGE ON,PATCH,UB,NND,TAPPERED ENDS,CENTRAL BULGE,PAIR=MAC,R=F	
H940-3	NGC 3890	Dra	Galaxy S?	VF,S,R,BM
Feb 23 2006	31"	17mmT4	PF,MS,R,LARGE BNUC,MOD HISB,SUDDENLY MBM,LARGE NUC AREA,R=G	
H941-3	NGC 4159	Dra	Galaxy S?	EF,PS,R,TRI2*
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,AV,SUSP ONLY,LOCATION GOOD,R=P	
H942-3	NGC 4331	Dra	Galaxy Im?	EF,E0
Feb 04 2005	31"	17mmT4	PF,MS,EDGE ON,UB,NND,F* IN TIP,R=F	
H943-3	NGC 5909	UMi	Galaxy S?	VF,VS
Apr 23 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,SMALL NUC,COMP=5912,R=F	
H944-3	NGC 5912	UMi	Galaxy E?	VF,VS
Apr 23 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,FNUC,COMP=5909,SLIGHTLY BM,R=F	
H945-3	NGC 6324	UMi	Galaxy S?	VF,S,E,S*S
Jun 21 2003	12.5"	9mmT6	MF,MS,PATCH,UB,NND,SHISB,R=G	
H946-3	NGC 5295	Cam	Galaxy	VF,VS,R
Apr 03 2005	31"	17mmT4	PF,PS,OVAL,SMALL FNUC,R=F	
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,R=F	
H947-3	NGC 5452	UMi	Galaxy SAB(s)d	VF,PL,IR,VGV LBM
May 16 2004	31"	17mmT4	VDIF,VF,PL,OVAL,PATCH,UB,NND,R=P	
H948-3	NGC 5547	UMi	Galaxy Double System	EF,VS,E0
Mar 06 2003	12.5"	9mmT6	EDIF,EF,PS,PATCH,AV,R=P	
H949-3	NGC 5640	Cam	Galaxy Ia	EF,S,LE
Jun 01 2003	12.5"	9mmT6	EDIF,EF,VS,PATCH,AV,SUSP,R=P	
H950-3	NGC 5712	UMi	Galaxy	VF,S,R,S CL P
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,AV HOLDS,PAIR=IC4470,R=P	
H951-3	NGC 6331	UMi	Galaxy E	EF,S
Jun 21 2003	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,OTHERS PRESENT,R=P	
May 31 2014	36"	17mmT4	MF,MS,OVAL,LFNUC,VERY CLOSE COMP=MAC,CAN SEPERATE,AGC 2256,R=F	
H952-3	NGC 1633	Tau	Galaxy SAB(s)ab	EF,S,R,*8SP,P OFDNEB
Dec 26 2003	31"	17mmT4	MF,PL,PATCH,UB,NND,CLOSE COMP=1634,R=G	

Herschel 2500 Observations

H952-3	NGC 1633	Tau	Galaxy SAB(s)ab	EF,S,R,*8SP,P OFDNEB
Dec 26 2003	31"	17mmT4	MF,PL,PATCH,UB,NND,CLOSE COMP=1634,R=G	
H953-3	NGC 1634	Tau	Galaxy E	EF,VS,F OF DNEB
Dec 26 2003	31"	17mmT4	MB,MS,LARGE BNUC,SHISB,CLOSE COMP=1633,R=G	
H955-3	NGC 270	Cet	Galaxy S0+	PF,VS,IR,PGBM
Oct 13 2007	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,BM,SOMEWHAT HISB MIDDLE,R=F	
H957-3	NGC 6500	Her	Galaxy SAab:	VF,VS,SP OF 2
Jul 03 2003	12.5"	9mmT6	PB,ML,BNUC,SHISB,SBM,SMALL NUC,SLIGHTLY ELONG,PAIR=6501,R=G	
H958-3	NGC 6501	Her	Galaxy SA0+:	VF,VS,NF OF 2
Jul 03 2003	12.5"	9mmT6	PB,ML,BNUC,SHISB,SMALL NUC,PAIR=6500,R=G	
H963-3	NGC 2938	Dra	Galaxy SB(rs)cd	EF,S,IF,D*F3'
Apr 14 2004	31"	17mmT4	DIF,PF,ML,OVAL,PATCH,UB,NND,R=F	
H964-3	NGC 3174	Dra	Galaxy SB(s)ab pec:	CF,S,STELLAR,S*F NR
Mar 06 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,NND,F* OFF TO EDGE,R=P	
H965-3	NGC 3194	Dra	Galaxy S?	VF,VS
Mar 06 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,AV,JUMPS OUT WITH AV THEN HOLDS,R=P	
H966-3	NGC 3197	Dra	Galaxy Sbc	VF,VS
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,NND,R=P	
H968-3	NGC 3500	Dra	Galaxy Sb	VF\$EF,DNEB,V NEAR
Dec 07 2005	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,F* OFF EDGE,R=F	
Feb 05 2005	31"	17mmT4	PF,MS,OVAL,FNUC,F* OFF EDGE,R=F	
Feb 23 2006	31"	17mmT4	MB,ML,R,LARGE FNUC,F* OUTER EDGE,MOD HISB MIDDLE,PAIR=PGC33277,R=G	
H970-3	NGC 3901	Cam	Galaxy Scd:	PF,PL,RESOLVABLE
Feb 04 2005	31"	17mmT4	PF,ML,OVAL,PATCH,UB,NND,F* IN EDGE,R=F	
H972-3	NGC 3471	UMa	Galaxy Sa	VF,S,R,BM
Feb 04 2005	31"	17mmT4	MB,PL,ELONG,LARGE FNUC,MOD HISB MIDDLE,PAIR=PGC33071,R=G	
H973-3	NGC 6068	UMi	Galaxy SBbc?	VF,VS,LE0,R
Jun 01 2003	12.5"	9mmT6	DIF,VF,MS,OVAL,UB,NND,PAIR=6068A,R=F	
H974-3	NGC 6251	UMi	Galaxy E	CF,S,BM,P OF 2
Jun 22 2003	12.5"	9mmT6	PF,MS,PATCH,FNUC,SHISB TOWARDS MIDDLE,SMBM,PAIR=6252,R=F	
H975-3	NGC 6252	UMi	Galaxy S R	VF,VS,F OF 2
Jun 22 2003	12.5"	9mmT6	EDIF,VF,VS,PATCH,NND,AV,PAIR=6251,R=P	
H977-3	NGC 2908	Dra	Galaxy S	EF,VS
Apr 14 2004	31"	17mmT4	DIF,MF,MS,R,UB,NND,F* IN GAL,R=F	
H978-3	NGC 3057	Dra	Galaxy SB(s)dm	EF,PL,VLBM,2S* S
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,R=P	
H980-3	NGC 3212	Dra	Galaxy SB?	VF,S,2ND OF 3
Feb 04 2005	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,VF* OFF ONE EDGE,PAIR=3125/MAC,R=F	
H981-3	NGC 3215	Dra	Galaxy S?	VF,S,3RD OF 3
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,PATCH,UB,SOMEWHAT BM,F* ON EDGE,PAIR=3212/MAC,R=F	
H982-3	NGC 2629	UMa	Galaxy SA(r)0^:	VF,S,STELLAR
Feb 01 2005	31"	17mmT4	MB,MS,R,LARGE BNUC,HISB,PAIR=2641,R=G	
H983-3	NGC 2641	UMa	Galaxy S0:	VF,S,STELLAR
Feb 01 2005	31"	17mmT4	MF,MS,R,LARGE FNUC,PAIR=2629,R=F	
H984-3	NGC 7810	Peg	Galaxy S0	PF,STELL,2*NP INLINE
Oct 06 2004	31"	17mmT4	MF,PS,R,SMALL BNUC,F* ON OFF EDGE,PAIR=MAC,R=F	