

# Herschel 400 (I) Observations

<b>H1-1</b>	<b>NGC 1055</b>	<b>Cet</b>	<b>Galaxy SBb: sp</b>	<b>PF,CL,IE80,BM,*11N1'</b>
Sep 27 1981	12.5" 16mm	PB,PL,EDGE ON,FNUC,DIM ARMS,3* IN TRI TO N,DUST LANE E TO W,SBM		
Sep 07 1980	12.5" 24mm	FAINT AND LARGE,SAME FOV AS M77		
Nov 24 2006	12.5" 12mmT4	PB,PL,OVAL,HISB,R=G		
<b>H1-4</b>	<b>NGC 7009</b>	<b>Aqr</b>	<b>Planetary Neb 4+6</b>	<b>PLN,VB,S,ELLIPTIC</b>
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		
Sep 10 1980	12.5" 24mm			
Sep 01 2002	31" 9mmT6	BRT BLUE,RING SEEN,DETAIL IN NEB DETECTED,BEST VIEW TO DATE		
Oct 31 1980	12.5" 24mm			
Jun 18 1980	12.5" 9mm	DISK SHOWN WELL		
Jul 17 1980	12.5" 24mm			
Jul 10 1981	12.5" 16mm	SATURN NEB,RING EASILY SEEN,BRT BLUE,MB,MS		
Aug 31 1984	12.5" 12mm	VB,MS,R BRT BLUEISH NEB,SLIGHTLY ELONG,UB		
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		
<b>H1-6</b>	<b>NGC 2420</b>	<b>Gem</b>	<b>Open Cluster 11.0 I 1 r</b>	<b>CL,CL,RI,C,ST11...18</b>
Oct 30 1981	12.5" 16mm	MB,ML,WELL DISPERSED IN 16MM		
Feb 21 1984	12.5" 16mm	SAME,APPROX 50-100*S,MB,ML		
<b>H1-8</b>	<b>NGC 2509</b>	<b>Pup</b>	<b>Open Cluster I 1 r</b>	<b>CL,B,PRI,LC,ST S</b>
Oct 16 1982	12.5" 24mm	MF,ML,APPROX 50*S,LOOSE,FEW B*S IN CLUSTER		
<b>H2-1</b>	<b>NGC 2775</b>	<b>Cnc</b>	<b>Galaxy SA(r)ab</b>	<b>CB,CL,R,VGVSMBM,R</b>
Oct 24 1981	12.5" 12mm	DIF,MF,ML,BRT CENTRAL REGION,UB,GOOD DEFINITION WHERE ARMS WIND AROUND NUC		
Feb 21 1984	12.5" 16mm	SAME		
Dec 03 1980	12.5" 24mm			
<b>H2-5</b>	<b>NGC 4536</b>	<b>Vir</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,VL,ME110,SBM,ER</b>
May 03 1981	12.5" 24mm	DIF,PB,EL,ELONG,DARM,PAIR/4527		
<b>H2-6</b>	<b>NGC 2304</b>	<b>Gem</b>	<b>Open Cluster II 1 m</b>	<b>CL,PL,RI,MC,ST VS</b>
Oct 31 1980	12.5" 24mm	VERY COMPACT,LOOKS LIKE A GAL,MANY F*S GIVES APPEAR OF NEB		
Oct 30 1981	12.5" 16mm	MF,ML,WEDGE SHAPE,F*S SAME MAG,APPROX 50*S		
Feb 21 1984	12.5" 16mm	SAME		
<b>H2-7</b>	<b>NGC 2244</b>	<b>Mon</b>	<b>Open Cluster 7.0 II 3 r n</b>	<b>CL,BEAUTIFUL,STSC</b>
Sep 10 1980	12.5" 24mm			
Mar 18 2007	31" 31mmT5	EB,EEL,SEVERAL FOV'S,NICE,FEW B*S WITH VARIOUS MAGNITUDES,LOOSLY SCATTERED,R=G		
Feb 25 1984	12.5" 24mm	SAME		
Aug 21 1982	12.5" 24mm	MB,VL,SCATTERED,7..9 MAG *S,APPROX 20*S,ALMOST FILLS 24MM FOV		
<b>H3-1</b>	<b>NGC 3166</b>	<b>Sex</b>	<b>Galaxy SAB(rs)0/a</b>	<b>B,PS,R,PSMBM,2ND OF3</b>
Oct 22 1982	12.5" 16mm	MB,PS,BNUC,R,GBM,HISB TOWARDS CENTER,PAIR/3169		
Nov 24 2006	12.5" 12mmT4	VF,PL,OVAL,R,LARGE BNUC,GMBM,HISB MIDDLE,HISB,PAIR=3169/3165,R=E		
<b>H3-2</b>	<b>NGC 157</b>	<b>Cet</b>	<b>Galaxy SAB(rs)bc</b>	<b>PB,L,E,BET2CB*</b>
Sep 21 1984	12.5" 16mm	DIF,PB,BL,12TH MAG * IN E SIDE,HISB,R,KNOTS SUSP,UNIFORM BRIGHTNESS		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm	LARGE,FAINT,BETWEEN 2*S		
<b>H3-8</b>	<b>NGC 2251</b>	<b>Mon</b>	<b>Open Cluster 9.1 III 2 m</b>	<b>CL,VL,E,RI,LC</b>
Oct 16 1982	12.5" 24mm	LOOSE AND SCATTERED,RECTANGLE SHAPE,APPROX 40*S,ALMOST FILLS 24MM FOV		
Feb 25 1984	12.5" 24mm	SAME		
<b>H4-1</b>	<b>NGC 3169</b>	<b>Sex</b>	<b>Galaxy SA(s)a pec</b>	<b>B,PL,VLE,PGMBM,3RD-3</b>

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<b>H4-1</b>	<b>NGC 3169</b>	<b>Sex</b>	<b>Galaxy SA(s)a pec</b>	<b>B,PL,VLE,PGMBM,3RD-3</b>
Oct 22 1982	12.5" 16mm	MB,PS,DNUC,R,SBM,MOD HISB,B*NW,PAIR/3166		
Nov 24 2006	12.5" 12mmT4	VB,PL,OVAL,LARGE BNUC,HISB,GMBM,PAIRS=3166/3165,R=E		
<b>H4-2</b>	<b>NGC 596</b>	<b>Cet</b>	<b>Galaxy E+ pec:</b>	<b>PB,R,BM,R,*6F12'</b>
Sep 27 1981	12.5" 16mm	MF,PS,BNUC,B TOWARDS MIDDLE,SMALL NUC		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm	PAIR/584		
<b>H4-7</b>	<b>NGC 1817</b>	<b>Tau</b>	<b>Open Cluster 9.0 IV 2 r</b>	<b>CL,L,RI,LC,ST11...14</b>
Dec 25 1984	12.5" 48mm	SAME		
Aug 21 1982	12.5" 24mm	MB,SL,3B*S IN W PART,WELL PLACED IN 24MM,APPROX 50*S,SCATTERED		
<b>H5-1</b>	<b>NGC 3655</b>	<b>Leo</b>	<b>Galaxy SA(s)c:</b>	<b>PB,PS,IR,BM,R</b>
Mar 03 1984	12.5" 12mm	DIF,MB,PS,MOD HISB,OVAL,UB		
Jan 30 1981	12.5" 24mm	DIF,PB,VS,DNUC,FAINT HALO		
<b>H5-4</b>	<b>NGC 4437</b>	<b>Vir</b>	<b>Galaxy SA(s)cd: sp</b>	<b>F,EE75,*10NF</b>
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 PF,EL,EDGE ON,FARM		
May 01 1981	12.5" 24mm			
<b>H5-5</b>	<b>NGC 4293</b>	<b>Com</b>	<b>Galaxy (R)SB(s)0/a</b>	<b>F,VL,E,LBM,R</b>
Mar 08 2010	31" 17mmT4	MB,PL,ELOIG,EDGE ON,LARGE FNUC,SOME GRANULAR AREAS DET,R=G		
Jun 10 1980	6" 24mm			
Feb 12 1983	12.5" 16mm	DIF,PF,ML,F*E TIP,NND,KNTS SUSP,UB,SEVERAL *S OFF ONE SIDE		
<b>H5-6</b>	<b>NGC 2194</b>	<b>Ori</b>	<b>Open Cluster 13.0 II 2 r</b>	<b>CL,L,RI,GVMCM</b>
Dec 30 1983	12.5" 24mm	SAME		
Aug 21 1982	12.5" 24mm	MF,PS,40-50*S,FAINT GLOW BETWEEN *S,SLIGHTLY OVAL		
<b>H5-8</b>	<b>NGC 2264</b>	<b>Mon</b>	<b>Open Cluster 5.0 III 3 m n</b>	<b>15MON,CL,**,(NEB)</b>
Sep 10 1980	12.5" 24mm			
Oct 16 1982	12.5" 24mm	MF,ML,11 FAINT*S AROUND A BRT * WITH AN OVAL PATCH OF NEB		
Feb 25 1984	12.5" 24mm	SAME		
<b>H6-1</b>	<b>NGC 5363</b>	<b>Vir</b>	<b>Galaxy I0?</b>	<b>B,PL,R,PSBM,*8NF</b>
Feb 12 1983	12.5" 16mm	VB,ML,BNUC,R,BM,PAIR/5364		
<b>H6-6</b>	<b>NGC 2355</b>	<b>Gem</b>	<b>Open Cluster 13.0 II 2 m</b>	<b>CL,PS,PRI,MC,*15..16</b>
Oct 30 1981	12.5" 24mm	B* SURR BY SEVERAL F*S,DIF HALO OF FAINTER *S IN BACKGROUND		
Oct 16 1982	12.5" 24mm	MF,ML,B* N 1 OBJECT DIA,FEW B*S WITH 50 FAINTER *S,SCATTERED		
Feb 21 1984	12.5" 16mm	SAME		
<b>H8-1</b>	<b>NGC 4698</b>	<b>Vir</b>	<b>Galaxy SA(s)ab</b>	<b>CB,PL,IR,BM,R</b>
Mar 27 1982	12.5" 12mm	MF,MS,DNUC,DIF HALO,SMBM,R,BETWEEN 2F*S		
<b>H8-5</b>	<b>NGC 3628</b>	<b>Leo</b>	<b>Galaxy Sb pec sp</b>	<b>PB,VL,VME102</b>
Mar 27 1981	12.5" 24mm			
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 03 1984	12.5" 12mm	DIF,MF,PL,EDGE ON,VF*S S OF EAST ARM,DARK LANES DET,UB,NND		
Jun 10 1980	6" 24mm	BETWEEN 2 F*S,SAME FOV AS M65/M66		
Jan 30 1981	12.5" 24mm	DIF,PF,EL,EDGE ON,FAINT HALO,PAIR/M66/M65/3626		
Dec 03 1980	12.5" 24mm			
<b>H8-7</b>	<b>NGC 6940</b>	<b>Vul</b>	<b>Open Cluster 11.0 III 2 r</b>	<b>CL,VB,VL,VRI,CC,STPL</b>
Sep 19 1984	12.5" 16mm	VB,VL,*S SCATTERED AND APPROX SAME MAG,FILLS FOV		
Jun 20 1980	12.5" 24mm	GREAT,VL,FILLS FOV,PB		
Jul 30 1981	12.5" 12mm	PB,PL,LARGE IN B* FIELD		

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<b>H8-7</b>	<b>NGC 6940</b>	<b>Vul</b>	<b>Open Cluster 11.0 III 2 r</b>	<b>CL,VB,VL,VRI,CC,STPL</b>
Jul 30 1981	12.5" 12mm	PB,PL,LARGE IN B* FIELD		
<b>H8-8</b>	<b>NGC 1647</b>	<b>Tau</b>	<b>Open Cluster 9.0 II 2 r</b>	<b>CL,VL,ST L,SC</b>
Aug 21 1982	12.5" 24mm	MB,EL,APPROX 20*S,FILLS 24MM,LOOSE,SCATTERED		
<b>H9-1</b>	<b>NGC 4179</b>	<b>Vir</b>	<b>Galaxy S0 sp</b>	<b>PB,PS,PME135,BMN</b>
Apr 25 1981	12.5" 24mm	DIF,PF,PS,ELONG,BNUC,F HALO		
<b>H9-6</b>	<b>NGC 5466</b>	<b>Boo</b>	<b>Globular</b>	<b>CL,L,VRI,VMC,ST11...</b>
May 06 1981	12.5" 16mm	VB,EL		
Jul 14 1980	12.5" 24mm			
Apr 11 2015	36" 17mmT4	MB,ML,BRT 'S LOOSLY SCATTERED,FT SOFT BACKGROUND AROUND NUC AREA,-TYPE XI,R=G		
<b>H9-7</b>	<b>NGC 6830</b>	<b>Vul</b>	<b>Open Cluster 10.0 II 2 p</b>	<b>CL,L,PRI,PC,*11...12</b>
Sep 19 1984	12.5" 16mm	SAME,MB,ML,*S SCATTERED,DARK AREA DET IN NORTH REGION		
Jul 30 1981	12.5" 16mm	APPROX 20*S,8..9 MAG,MB,ML		
Jul 30 1981	12.5" 24mm	EASILY DET		
<b>H10-1</b>	<b>NGC 4643</b>	<b>Vir</b>	<b>Galaxy SB(rs)0/a</b>	<b>CB,PS,LE,MBM</b>
Mar 27 1982	12.5" 12mm	MB,MS,ELONG,BNUC,VMBM,HISB TOWARDS MIDDLE,B* OFF TO SIDE		
Jun 04 1981	12.5" 24mm	DIF,BNUC,DIM HALO		
<b>H10-7</b>	<b>NGC 2482</b>	<b>Pup</b>	<b>Open Cluster 10.0 IV 1 m</b>	<b>CL,L,CRI,VLC</b>
Dec 03 1980	12.5" 24mm	BLENDS IN WITH FIELD *S,DOESNOT STAND OUT WELL		
<b>H11-4</b>	<b>NGC 6369</b>	<b>Oph</b>	<b>Planetary Neb 4+2</b>	<b>RINGNEB,PB,S,R</b>
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		
Jun 18 1980	12.5" 9mm	GOOD,LOC BESIDE F*,DISK DET		
Jun 04 1981	12.5" 24mm	GREEN,MF,MS,NO CENTRAL * DET		
<b>H11-6</b>	<b>NGC 6284</b>	<b>Oph</b>	<b>Globular</b>	<b>GCL,B,L,R,CM,ST16...</b>
Jun 18 1980	12.5" 24mm	BETTER THAN 6287,BNUC		
Jun 18 1980	12.5" 24mm			
Jun 04 1981	12.5" 24mm	MB,PL,BNUC		
Jul 21 1984	12.5" 16mm	PF,PS,FNUC,NOT RESOLVED,SBM,PATCHY		
<b>H11-7</b>	<b>NGC 2539</b>	<b>Pup</b>	<b>Open Cluster 9.0 III 2 m</b>	<b>CL,VL,RI,LC,*11...13</b>
Dec 03 1980	12.5" 24mm	DOUBLE * IN CLUSTER (YELLOW & BLUE),BEAUTIFUL!!!		
<b>H11-8</b>	<b>NGC 2395</b>	<b>Gem</b>	<b>Open Cluster 10.0 IV 2 m</b>	<b>CL,PRI,C</b>
Oct 30 1981	12.5" 24mm	MB,PL,SOME B*S WITH FAINTER *S		
Feb 21 1984	12.5" 24mm	SAME		
<b>H12-7</b>	<b>NGC 2360</b>	<b>CMa</b>	<b>Open Cluster 10.4 I 3 r</b>	<b>CL,VL,RI,PC,ST9...12</b>
Oct 31 1980	12.5" 24mm	LOOKS LIKE SMALL BEE HIVE		
Oct 16 1982	12.5" 24mm	MB,ML,APPROX 50*S SAME MAG,RESEMBLES WILD DUCK CLUSTER		
<b>H12-8</b>	<b>NGC 6664</b>	<b>Sct</b>	<b>Open Cluster 9.0 III 2 m</b>	<b>CL,L,PRI,VLC</b>
Aug 13 2007	31" 31mmT5	VB,EEL,APPROX 40*S,SOME CLUSTERING,LOOSLY SCATTERED,FILLS FOV,R=P		
Aug 13 1982	12.5" 24mm	MB,VL,APPROX 20*S,SCATTERED,B* IN FIELD,SOMEWHAT V SHAPED		
<b>H13-1</b>	<b>NGC 3521</b>	<b>Leo</b>	<b>Galaxy SAB(rs)bc</b>	<b>CB,CL,ME140,VSMBMN</b>
Jan 30 1981	12.5" 24mm	VB,PL,ELONG,BNUC,DIM HALO		
Feb 25 1984	12.5" 12mm	MB,PL,ELONG,BNUC,VERY MBM,SMALL BRT NUC		
<b>H13-7</b>	<b>NGC 2204</b>	<b>CMa</b>	<b>Open Cluster 13.0 II 2 r</b>	<b>CL,L,PRI,LC</b>
Oct 16 1982	12.5" 24mm	VF,ML,LOOSE-SCATTERED,APPROX 50*S,BRT * OUTSIDE CLUSTER		
<b>H14-5</b>	<b>NGC 6992</b>	<b>Cyg</b>	<b>Nebula E</b>	<b>EF,EL,EE,EIF,BIFID</b>
Sep 04 2002	12.5" 32mm	VB,EEL,SNR,HISB,ARC GOES 2 FOV'S		

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<b>H14-5</b>	<b>NGC 6992</b>	<b>Cyg</b>	<b>Nebula E</b>	<b>EF,EL,EE,EIF,BIFID</b>
Sep 04 2002	12.5" 32mm	VB,EEL,SNR,HISB,ARC GOES 2 FOV'S		
<b>H14-6</b>	<b>NGC 6802</b>	<b>Vul</b>	<b>Open Cluster 14.0 I 1 m</b>	<b>CL,L,VC,E0,ST14...18</b>
Sep 19 1984	12.5" 16mm	MF,ML,ELONG-REC SHAPE,MANY *S APPROX SAME MAG,MANY *S RESOLVED		
Jul 30 1981	12.5" 16mm	ELONG,*S 10..12 MAG,MF,ML		
<b>H15-1</b>	<b>NGC 4666</b>	<b>Vir</b>	<b>Galaxy SABc:</b>	<b>B,VL,ME45,PSBM</b>
Mar 27 1982	12.5" 12mm	DIF,MF,PL,EDGE ON,FNUC,STELL NUC,SBM,TAPPED ENDS		
<b>H16-1</b>	<b>NGC 4753</b>	<b>Vir</b>	<b>Galaxy I0</b>	<b>CB,L,VLE,VGLBM</b>
Feb 12 1983	12.5" 16mm	MB,ML,ELONG,DNUC,SMB,STELL NUC		
<b>H16-4</b>	<b>NGC 6905</b>	<b>Del</b>	<b>Planetary Neb 3+3</b>	<b>PLN,B,PS,R,4S*NR</b>
Jul 30 1981	12.5" 12mm	BLUEISH GREEN COLOR,R,EDGES WELL DEF,CENTRAL * VERY FAINT,UB		
Jul 08 1983	12.5" 12mm	MF,PS,R,TRI OF *S AROUND OBJECT,OUTER EDGES FAINTER THAN MIDDLE		
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		
<b>H16-8</b>	<b>NGC 6834</b>	<b>Cyg</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,P,LC,*11...12</b>
Sep 19 1984	12.5" 16mm	SAME,MB,MS,LARGE DARK NEB NORTH SEVERAL DEGREES,STANDS OUT WELL		
Jul 30 1981	12.5" 24mm	MB,ML,EASILY DET,B* IN CENTER,SMALL CLUSTERING TO N SIDE		
<b>H17-1</b>	<b>NGC 3379</b>	<b>Leo M105</b>	<b>Galaxy E1</b>	<b>VB,CL,R,PSBM,R</b>
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 08 2013	36" 17mmT4	MESSIER MARATHON 2013		
Mar 02 1984	10" 20mm	SAME		
Jan 30 1981	12.5" 24mm	EB,VL,BNUC,PAIR/3384/3389		
Feb 25 1984	12.5" 16mm	MB,ML,BNUC,R,PAIR/3384/3389		
Dec 03 1980	12.5" 24mm			
<b>H17-5</b>	<b>NGC 598</b>	<b>Tri M33</b>	<b>Galaxy SA(s)cd</b>	<b>EB,EL,R,VGBMN 6</b>
Sep 23 1981	12.5" 16mm	MB,EL,BARM,SPIRAL STR DETECTED,H2 REGIONS DET,2-3 MAJOR ARMS SEEN		
Sep 20 1981	12.5" 24mm			
Sep 18 1980	12.5" 24mm			
Sep 14 2012	36" 17mmT4	EB,EEL,BNUC,SEVERAL FOV'S,KNOTS,SPR STR,H2 REGIONS,DUST,ARMS,TONS OF DETAIL,R=E		
Sep 10 1980	12.5" 32mm	GREAT!!,SEVERAL ARMS,STR SEEN		
Sep 07 1980	12.5" 24mm			
Sep 03 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Jul 24 1980	12.5" 32mm	BEST I'VE EVER SEEN,GREAT!!!		
Jul 15 1980	12.5" 24mm	EF,EL,LOOKS LIKE DIF NEB,NO SPR STR DET		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 32mm			
<b>H17-6</b>	<b>NGC 2158</b>	<b>Gem</b>	<b>Open Cluster 15.0 II 3 r</b>	<b>CL,PS,MC,VRI,IRRTRI</b>
Sep 10 1980	12.5" 24mm			
Oct 30 1981	12.5" 12mm	RESOLVED,DOZEN OR SO B*S IN FRONT OF FAINT HALO OF *S		
Mar 27 1981	12.5" 24mm			
<b>H17-7</b>	<b>NGC 2362</b>	<b>CMa</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,PL,RI,30CMA</b>
Oct 31 1980	12.5" 24mm	6TH MAG CENTRAL * SURROUNDED BY 9TH *S,EXCELLENT		

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<b>H17-7</b>	<b>NGC 2362</b>	<b>CMa</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,PL,RI,30CMA</b>
Oct 31 1980	12.5" 24mm	6TH MAG CENTRAL * SURROUNDED BY 9TH *S,EXCELLENT		
Oct 16 1982	12.5" 24mm	APPROX 30*S,VB,VL,B* IN CENTER,TRI SHAPE,*S APPROX SAME MAG		
<b>H18-1</b>	<b>NGC 3384</b>	<b>Leo</b>	<b>Galaxy SB(s)0-:</b>	<b>VB,L,R,PSMBM,2ND OF3</b>
Mar 27 1981	12.5" 24mm			
Jan 30 1981	12.5" 24mm	VB,PL,BNUC,FAINT HALO,PAIR/3379/3389		
Feb 25 1984	12.5" 16mm	MB,ML,ELONG,BNUC,BM,PAIR/3379/3389		
Dec 03 1980	12.5" 24mm			
<b>H18-4</b>	<b>NGC 7662</b>	<b>And</b>	<b>Planetary Neb 4+3</b>	<b>PLN ORRING,VB,PS,R</b>
Sep 23 1981	12.5" 16mm	BRT BLUEISH GREEN,UB,R WITH FUZZY EDGES,NO CENTRAL *,MB,PS,15* SW		
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		
Jul 15 1980	12.5" 24mm			
Aug 31 1984	12.5" 12mm	MB,VS,VERY R,UNIFORM BLUEISH COLOR,* CLOSE BY		
<b>H18-5</b>	<b>NGC 205</b>	<b>And M110</b>	<b>Galaxy E5 pec</b>	<b>VB,VL,ME165,VGVMBM</b>
Sep 24 1981	12.5" 16mm	SMBM,SLIGHTLY OVAL,FAINT ARMS,DIF,MB,PL,ELONGATED		
Sep 20 1981	12.5" 24mm	F* IN S ARM IN EQ PLANE		
Sep 10 1980	12.5" 24mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Jul 24 1980	12.5" 24mm	BEST OBSERVED TO DATE		
Jul 17 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Aug 31 1984	12.5" 24mm	MB,PL,FNUC,COMP TO M31,ELONG,F* IN EASTERN PART,SOFT DIF NUCLEUS		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
<b>H18-7</b>	<b>NGC 6823</b>	<b>Vul</b>	<b>Open Cluster 8.8 I 3 m n</b>	<b>CL,CRI,E,ST11...12</b>
Sep 19 1984	12.5" 16mm	SAME,MB,PL,APPROX 20*S		
Jun 27 2003	12.5" 24mm	VB,VL,APPROX 30*,3B*S WITH MANY FAINTER *S,LOOSE,SCATTERED,PAIR=6820,R=F		
Jul 30 1981	12.5" 16mm	R,B*S RESOLVED,4B*S IN CLUSTER,MB,ML,*S 8..9 MAG		
<b>H19-1</b>	<b>NGC 4147</b>	<b>Com</b>	<b>Globular</b>	<b>GCL,VB,PL,R,GBM,RRR</b>
Mar 08 2010	31" 17mmT4	PB,ML,TYPE APPROX VI,RESOLVED TO CORE,SBNUC,MOD HISB MIDDLE,F HALO OF *S RESOLVED,R=G		
Jun 10 1980	6" 24mm	VF,LOOKS LIKE FAINT GAL		
Feb 12 1983	12.5" 12mm	MB,PL,RESOLVED TO CORE,OUTER *S CLOSELY GROUPED,BM		
<b>H19-5</b>	<b>NGC 891</b>	<b>And</b>	<b>Galaxy SA(s)b? sp</b>	<b>B,VL,VME22</b>
Sep 23 1981	12.5" 24mm	F* 13MAG NW SIDE,FAINTER * TO S TIP OF ARM,BULGE DET,ML,MB, EDGE ON		
Sep 20 1981	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Jul 24 1980	12.5" 32mm	BEAUTIFUL!!!,DUST LANE VISIBLE		
Jul 17 1980	12.5" 24mm			
Jul 11 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		
Aug 22 1980	12.5" 24mm			
<b>H19-6</b>	<b>NGC 5897</b>	<b>Lib</b>	<b>Globular</b>	<b>GCL,PF,L,VIR,VGBM,</b>
May 02 1981	12.5" 16mm	PB,EL		
<b>H19-7</b>	<b>NGC 6755</b>	<b>Aql</b>	<b>Open Cluster 11.0 II 2 r</b>	<b>CL,VL,VRI,PC,,*12.14</b>

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<b>H19-7</b>	<b>NGC 6755</b>	<b>Aql</b>	<b>Open Cluster 11.0 II 2 r</b>	<b>CL,VL,VRI,PC,,*12.14</b>
Jul 15 1980	12.5" 24mm			
Jul 10 1981	12.5" 24mm		SOMEWHAT GROUPED TOGETHER,APPEARS TO BE A DOUBLE CLUSTER	
Aug 31 1984	12.5" 24mm		SAME,MB,PL	
<b>H20-4</b>	<b>NGC 2185</b>	<b>Mon</b>	<b>Nebula R</b>	<b>*11\$4S*IN VF,L,NEB</b>
Nov 24 2006	12.5" 17mmT4		DIF,MF,VS,SMALL PTCH OF NEB AROUND *,PAIR=2183OIII DOES NOT HELP,R=F	
Aug 21 1982	12.5" 24mm		MB,PS,B* JUST TO S,R,GBM,BRT CENTRAL REGION	
<b>H20-5</b>	<b>NGC 247</b>	<b>Cet</b>	<b>Galaxy SAB(s)d</b>	<b>F,EL,VME172</b>
Sep 24 1981	12.5" 16mm		DIF,MF,VL,B* S EQ PLANE,* OFF E SIDE,NND,PATCHY,ELONG,SIM TO 253	
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 32mm		EL,SEEN BY SWEEPING AREA,LARGE	
<b>H20-7</b>	<b>NGC 2215</b>	<b>Mon</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,CL,PRI,PC,ST11.15</b>
Oct 16 1982	12.5" 24mm		MF,PL,LOOSE AND SCATTERED,APPROX 20*S,WELL DEFINED	
Feb 25 1984	12.5" 24mm		SAME	
<b>H20-8</b>	<b>NGC 6885</b>	<b>Vul</b>	<b>Open Cluster 5.9 III 2 m</b>	<b>CL,VB,VL,RI,LC,*6.11</b>
Sep 19 1984	12.5" 16mm		SAME,MB,PL,B* CLOSE TO CENTER	
Jul 30 1981	12.5" 12mm		VB,VL,B* IN CENTER OF CLUSTER,APPROX 15-20*S	
<b>H21-1</b>	<b>NGC 3810</b>	<b>Leo</b>	<b>Galaxy SA(rs)c</b>	<b>B,L,VLE</b>
Mar 03 1984	12.5" 12mm		DIF,MB,ML,OVAL,SBM,NO *S	
Jun 10 1980	6" 24mm		PB,STAR HOP FROM BETA	
Jan 30 1981	12.5" 24mm		DIF,PB,PL,FNUC,FAINT HALO	
<b>H21-4</b>	<b>NGC 1964</b>	<b>Lep</b>	<b>Galaxy SAB(s)b</b>	<b>F,VS,R,VSVMBM,3*INV</b>
Oct 24 1981	12.5" 16mm		DIF,MF,PS,F*W SIDE,GBM,NUC DET,SMALL AND ROUND,APPEARS LIKE E GAL	
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	
<b>H21-6</b>	<b>NGC 2266</b>	<b>Gem</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PS,EC,RI,ST11..15</b>
Oct 30 1981	12.5" 12mm		PB,ML,30*S,1BRT * E SIDE	
Feb 21 1984	12.5" 16mm		SAME,APPROX 50-100*S,FORMS SOMEWHAT A TRI,MB,ML	
<b>H22-1</b>	<b>NGC 4371</b>	<b>Vir</b>	<b>Galaxy SB(r)0+</b>	<b>B,PS,R,GBM</b>
Apr 25 1981	12.5" 24mm		PB,PS,BNUC,F HALO	
<b>H22-6</b>	<b>NGC 2548</b>	<b>Hya M48</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,VL,PRI,PMC,*9..13</b>
Oct 24 1981	12.5" 24mm		VB,EL,BETTER IN FINDER,FILLS UP 24MM	
Mar 27 1982	12.5" 24mm		MB,EL,FILLS 24MM,BETTER IN FINDER	
Mar 27 1981	12.5" 24mm		MESSIER MARATHON 1981	
Mar 19 2004	12.5" 12mmT4		MESSIER MARATHON 2004	
Mar 08 2013	36" 17mmT4		MESSIER MARATHON 2013	
Mar 02 1984	10" 20mm		SAME	
Dec 03 1980	12.5" 24mm			
<b>H22-8</b>	<b>NGC 6882</b>	<b>Vul</b>	<b>Open Cluster</b>	<b>CL,P,LC</b>
Jul 06 1983	12.5" 24mm		MB,VS,JUST N OF 6885,B* IN OBJECT,APPROX 15 *S,OBLONG IN SHAPE	
Aug 13 1982	12.5" 24mm		EB,EL,OVERFILLS EYEPIECE FOV,SEVERAL B*S	
<b>H23-4</b>	<b>NGC 936</b>	<b>Cet</b>	<b>Galaxy SB(rs)0+</b>	<b>VB,VL,R,MBMN,P OF 2</b>
Sep 27 1981	12.5" 16mm		MF,PL,BNUC,DARM,SMBM,OUTER ARMS SUSP,BRT BAR TOWARDS NUC,R,FACE ON,PAIR/941	
Sep 18 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
<b>H24-1</b>	<b>NGC 4596</b>	<b>Vir</b>	<b>Galaxy SB(r)0+</b>	<b>B,PS,R,GMBM,R,3*F</b>
Jun 04 1981	12.5" 24mm		MB,PL,BNUC,BRT HALO,PAIR/4608	

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<b>H24-1</b>	<b>NGC 4596</b>	<b>Vir</b>	<b>Galaxy SB(r)0+</b>	<b>B,PS,R,GMBM,R,3*F</b>
Jun 04 1981	12.5" 24mm	MB,PL,BNUC,BRT HALO,PAIR/4608		
<b>H24-5</b>	<b>NGC 4565</b>	<b>Com</b>	<b>Galaxy SA(s)b? sp</b>	<b>B,EL,EE135,VSBMN=*10</b>
Mar 27 1981	12.5" 24mm			
Mar 17 2018	36" 17mmT4	EB,EEL,EDGE ON,BNUC,HISB,ABSOLUTELY AMAZING,DUST LANE THROUGH NUC REGION AND BEYOND,S BRT NUC ONE SIDE OF DUST, EDGE TO EDGE,R=EE		
Feb 27 1982	12.5" 16mm	MB,PL,VERY EDGE ON,BNUC,DIM HALO,F*N OF NUC,DUST LANES,CENTRAL BULGE,!!!		
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		
<b>H24-6</b>	<b>NGC 7044</b>	<b>Cyg</b>	<b>Open Cluster 15.0 I 1 r</b>	<b>CL,VF,PL,VRI,VC</b>
Aug 11 1982	12.5" 24mm	DIF,MF,VL,ELONG,10-20 B*S SURROUNDED BY HUNDREDS F*S,FAINT GLOW W/AVERTED VIS		
<b>H24-8</b>	<b>NGC 2169</b>	<b>Ori</b>	<b>Open Cluster 6.9 III 3 m</b>	<b>CL,S,LRI,PMC,**</b>
Dec 30 1983	12.5" 24mm	SAME		
Aug 21 1982	12.5" 24mm	MB,MS,20*S COUNTED,SPLIT THROUGH CENTER,ON SIDE RESEMBLES HOUR GLASS		
<b>H25-1</b>	<b>NGC 4754</b>	<b>Vir</b>	<b>Galaxy SB(r)0-</b>	<b>B,PL,R,PSBM,P OF 2</b>
Feb 12 1983	12.5" 16mm	MF,MS,SBM,R,PAIR/4762		
<b>H25-4</b>	<b>NGC 2327</b>	<b>CMa</b>	<b>Nebula</b>	<b>PB**INV INS,VF,NEB</b>
Nov 21 2006	12.5" 12mmT4	DIF,PB,PS,B* WITH FAINT NEB AROUND. BRT INNER REGION,R=G		
<b>H25-5</b>	<b>NGC 246</b>	<b>Psc</b>	<b>Planetary Neb 3b</b>	<b>VF,L,4*IN DIF NEB</b>
Sep 27 1981	12.5" 16mm	DIF,BLUE GREEN,MB,BL,SOURROUNDS 4 *S, 1 * S,PATCHY OVALNESS		
Sep 18 1980	12.5" 24mm	3*S IN NEB,ONE MOST LIKELY CENTRAL *		
Sep 02 2008	31" 17mmT4	VF,ML,OVAL,OIII HELPS GRTLY,TRANSLUCENT BUBLE,C*13MAG,BRT RINGS IN EDGE,R=G		
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
<b>H25-6</b>	<b>NGC 1245</b>	<b>Per</b>	<b>Open Cluster 12.0 II 2 r</b>	<b>CL,PL,RI,C,IR,*12.15</b>
Sep 03 1980	12.5" 24mm	GREAT!!,LOOKS LIKE MINATURE BEEHIVE		
Oct 03 1981	12.5" 24mm	MF,ML,50-80*S		
<b>H25-7</b>	<b>NGC 2186</b>	<b>Ori</b>	<b>Open Cluster 12.0 II 2 m</b>	<b>CL,PL,PRI,PC,ST L\$\$</b>
Dec 30 1983	12.5" 24mm	NO FIND		
Aug 21 1982	12.5" 24mm	MF,PS,APPROX 25*S,FAINT *S WITH BRT *S,CLUSTER SLIGHTLY ELONG		
<b>H25-8</b>	<b>NGC 2232</b>	<b>Mon</b>	<b>Open Cluster 5.0 III 2 p</b>	<b>B* 10MON +CL</b>
Oct 16 1982	12.5" 24mm	VB,VL,BROKEN IN 2 HALVES,12*S LOOSE AND SCATTERED,USE FINDER		
<b>H26-4</b>	<b>NGC 1535</b>	<b>Eri</b>	<b>Planetary Neb 4+2c</b>	<b>PLN,VB,S,R,PS,VSBM,R</b>
Oct 31 1980	12.5" 24mm	SIM IN COLOR TO SATURN NEBULA,FIND 1537 FIRST,GREAT!!!		
Oct 30 1981	12.5" 12mm	BLUE,MB,PL,BRT MIDDLE,12MAG CENTRAL *		
Dec 28 2008	31" 17mmT4	VB,ML,R,C*12M,OIII BRT INNER RING,R HALO,HISB MIDDLE, OIII HELPS SOMEWHAT,R=E		
<b>H26-8</b>	<b>NGC 2129</b>	<b>Gem</b>	<b>Open Cluster 10.0 I 3 m</b>	<b>CL,PL,40OR50ST8...15</b>
Oct 30 1981	12.5" 16mm	MB,ML,2B*S IN CLUSTER SURR BY 10-15*S		
<b>H27-1</b>	<b>NGC 3412</b>	<b>Leo</b>	<b>Galaxy SB(s)0^</b>	<b>B,S,LE135,SMBMN</b>
Jan 30 1981	12.5" 24mm	PB,PS,BNUC		
Feb 25 1984	12.5" 12mm	MB,PS,ELONG,BNUC		
<b>H27-4</b>	<b>NGC 3242</b>	<b>Hya</b>	<b>Planetary Neb 4+3b</b>	<b>PLN,VB,LE147,45"D</b>
Feb 12 1983	12.5" 16mm	MB,PS,R,BLUE FUZZY EDGES,UB,NO CENTRAL *		
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		
Dec 03 1980	12.5" 24mm	GHOST OF JUPITER,PAIL GREENISH COLOR,GREAT!!		
<b>H27-6</b>	<b>NGC 2301</b>	<b>Mon</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,RI,L,IF,ST L\$\$</b>
Oct 16 1982	12.5" 24mm	MB,VL,APPROX 50*S,LOOSE SCATTERED,V SHAPE,SOME PARTS CLUSTER BY		

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<b>H27-6</b>	<b>NGC 2301</b>	<b>Mon</b>	<b>Open Cluster 8.0 I 3 r</b>	<b>CL,RI,L,IF,ST L\$\$</b>
Oct 16 1982	12.5" 24mm	MB,VL,APPROX 50"S,LOOSE SCATTERED,V SHAPE,SOME PARTS CLUSTER BY THEMSELVES		
Feb 25 1984	12.5" 24mm	SAME		
<b>H28-1</b>	<b>NGC 4435</b>	<b>Vir</b>	<b>Galaxy SB(s)0^</b>	<b>VB,CL,R,NP OF 2</b>
May 01 1981	12.5" 24mm	PB,PS,BNUC		
Mar 27 1981	12.5" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,PAIR=4438,R=E		
Jun 10 1980	6" 24mm			
<b>H28-1</b>	<b>NGC 4438</b>	<b>Vir</b>	<b>Galaxy SA(s)0/a pec:</b>	<b>B,CL,VLE,R,SF OF 2</b>
May 01 1981	12.5" 24mm	DIF,PB,PL,BNUC,DARM		
Mar 27 1981	12.5" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,HISB MIDDLE,GRANULAR HALO,SPR STR SUSP,PAIR=4435,R=E		
Jun 10 1980	6" 24mm			
<b>H28-2</b>	<b>NGC 3226</b>	<b>Leo</b>	<b>Galaxy E2: pec</b>	<b>PB,CL,R,DW/3227</b>
Jan 30 1981	12.5" 24mm	DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3227		
Feb 25 1984	12.5" 12mm	MB,PS,BNUC,BM,R,CLOSE PAIR/3227		
Dec 03 1980	12.5" 24mm	COMP CLOSE,PAIR/3227		
Apr 19 2014	36" 17mmT4	MB,ML,R,SBNUC,F GLOW OF ARMS,PAIR=3227,R=G		
<b>H28-5</b>	<b>NGC 2024</b>	<b>Ori</b>	<b>Nebula E</b>	<b>IRR,B,VVL,BLACKSPINC</b>
Sep 18 1980	12.5" 24mm	CRACKS IN NEB DET,GREAT!!		
Oct 31 1980	12.5" 24mm			
Jan 24 2004	31" 24mmTP	DIF,MF,EL,SEVERAL FOV'S,WITH OIII,PATCHY AREAS,R=F		
Dec 03 1980	12.5" 24mm			
Aug 21 1982	12.5" 24mm	PF,EL,DARK DUST LANES DET,BREAKS H2 REGIONS APART,APPROX SAME SIZE AS HELIX		
<b>H28-7</b>	<b>NGC 2423</b>	<b>Pup</b>	<b>Open Cluster 9.0 II 2 m</b>	<b>CL,VL,RI,PC,ST VS</b>
Oct 16 1982	12.5" 24mm	VF,VL,APPROX 50"S,OUTSIDE FIELD OF M47,APPROX SAME MAG *S,LOOSE AND SCATTERED		
Dec 03 1980	12.5" 24mm			
<b>H28.1-4</b>	<b>NGC 4038</b>	<b>Crv</b>	<b>Galaxy SB(s)m pec</b>	<b>PB,CL,R,VGBM</b>
May 03 1981	12.5" 24mm	DIF,PB,VL,ELONG,BOTH NUC OF BOTH GAL SEEN,RING TAIL GAL,ARMS DET,PAIR/4039		
Mar 22 2004	12.5" 12mmT4	MF,PL,OVAL,PATCH,UB,NND,CLOSE COMP=4039,R=G		
Mar 16 2009	31" 17mmT4	VB,VL,ELONG,PATCHY AREAS IN GAL,SHISB,NND,DARK AREA SPLITS TWO,INTER=4039,R=G		
<b>H29-1</b>	<b>NGC 3593</b>	<b>Leo</b>	<b>Galaxy SA(s)0/a:</b>	<b>B,CL,E90,PSMBM</b>
Mar 27 1981	12.5" 24mm			
Mar 03 1984	12.5" 12mm	MB,PL,EDGE ON,BNUC,TAPPERED ENDS,NO *S,BM		
Jan 30 1981	12.5" 24mm	PB,PL,EDGE ON,BNUC,DIM HALO,PAIR/3596		
<b>H29-2</b>	<b>NGC 3227</b>	<b>Leo</b>	<b>Galaxy SAB(s)a pec</b>	<b>PB,CL,R,DW/3226</b>
Jan 30 1981	12.5" 24mm	DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3226		
Feb 25 1984	12.5" 12mm	MB,MS,ELONG,BNUC,SBM,CLOSE PAIR/3226,NO *S		
Dec 03 1980	12.5" 24mm	COMP CLOSE,PAIR/3226		
Apr 19 2014	36" 17mmT4	MB,ML,OVAL,R,LFNUC,SHISB,F ARMS DET,SOME SPR STR SUSP,PAIR=3226,R=G		
<b>H30-1</b>	<b>NGC 4365</b>	<b>Vir</b>	<b>Galaxy E3</b>	<b>CB,PL,VLE,GL,SMBM</b>
Mar 08 2010	31" 17mmT4	PB,PL,OVAL,LARGE BNUC,GRANULAR AREA AROUND NUC,HISB MIDDLE,R=G		
Jun 10 1980	6" 24mm	SMALL FUZZY PATCH		
Apr 25 1981	12.5" 24mm	PB,PL,BNUC,FARM,PAIR/4342		
<b>H30-6</b>	<b>NGC 7789</b>	<b>Cas</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,VL,VRI,VMC,*11.18</b>
Jun 20 1980	12.5" 24mm			



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<b>H30-6</b>	<b>NGC 7789</b>	<b>Cas</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,VL,VRI,VMC,*11.18</b>
Jun 20 1980	12.5"	24mm		
Jul 31 1981	12.5"	24mm	APPROX 50-100*S,A LOT OF F*S ASSOC WITH CLUSTER	
<b>H31-1</b>	<b>NGC 4526</b>	<b>Vir</b>	<b>Galaxy SAB(s)0^A:</b>	<b>VB,VL,ME120,PSMBM</b>
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	
May 03 1981	12.5"	24mm	VB,PL,ELONG,BNUC,BARM	
Jun 10 1980	6"	24mm		
<b>H31-5</b>	<b>NGC 1980</b>	<b>Ori</b>	<b>Nebula III 3 m n</b>	<b>VF,VVL,44ORIONIS INV</b>
Sep 09 1980	12.5"	24mm	NEB AROUND A NICE DOUBLE STAR	
Oct 16 1982	12.5"	24mm	MB,ML,B* IN CENTER,2F*S CLOSE TO B*,LARGE OVAL AREA SURR B*,CLOSE TO M42	
<b>H31-6</b>	<b>NGC 663</b>	<b>Cas</b>	<b>Open Cluster 9.0 II 3 r</b>	<b>CL,B,L,ERI,ST PL</b>
Jul 31 1981	12.5"	16mm	PL,CLUSTER BROKEN IN HALF,DARK PATCH THROUGH CLUSTER	
<b>H31-8</b>	<b>NGC 2286</b>	<b>Mon</b>	<b>Open Cluster 9.0 III 2 m</b>	<b>CL,L,C,AB100*9...15</b>
Oct 16 1982	12.5"	24mm	MF,EL,VERY POOR,NO CLUSTERING DET	
Feb 25 1984	12.5"	24mm	SAME	
<b>H32-1</b>	<b>NGC 4570</b>	<b>Vir</b>	<b>Galaxy S0 sp</b>	<b>CB,PS,ME0,SBMRN</b>
May 09 2010	31"	17mmT4	VB,VL,ELONG,EDGE ON,SBNUC,HISB,SUDDENLY MBM,TAPERED ENDS,SLIGHT CENTRAL BULGE,R=G	
Jun 10 1980	6"	24mm	JUST BARELY VISIBLE	
Jun 04 1981	12.5"	24mm	PB,VS,ELONG,BNUC	
<b>H32-5</b>	<b>NGC 1788</b>	<b>Ori</b>	<b>Nebula R</b>	<b>B,CL,R,BM,***15,*1'F</b>
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	
<b>H32-6</b>	<b>NGC 7086</b>	<b>Cyg</b>	<b>Open Cluster 10.2 II 2 m</b>	<b>CL,CL,VRI,PC,*11..16</b>
Aug 11 1982	12.5"	24mm	MB,PL,APPROX 80*S,SOMEWHAT DIVIDED IN CENTER,9...11 MAG *S	
<b>H32-7</b>	<b>NGC 752</b>	<b>And</b>	<b>Open Cluster 8.0 II 2 r</b>	<b>CL,VVL,RI,*L\$SC</b>
Sep 10 1980	12.5"	24mm		
Aug 31 1984	12.5"	24mm	SAME	
Aug 13 1982	12.5"	24mm	VB,EL,MANY *S,OVERFILLS 24MM FIELD,BEST IN 8X50 FINDER,R,SCATTERED	
<b>H32-8</b>	<b>NGC 2335</b>	<b>Mon</b>	<b>Open Cluster 10.0 III 2 m n</b>	<b>CL,L,LC</b>
Oct 16 1982	12.5"	24mm	MF,MS,APPROX 30*S,LOOSE AND SCATTERED,CLOSE TO 2343	
Feb 25 1984	12.5"	24mm	SAME	
<b>H33-2</b>	<b>NGC 3640</b>	<b>Leo</b>	<b>Galaxy E3</b>	<b>B,PL,R,PSBM</b>
Mar 03 1984	12.5"	12mm	MB,PL,BNUC,R,BM,CLOSE COMP SW	
Jan 30 1981	12.5"	24mm	PB,PS,DNUC	
<b>H33-4</b>	<b>NGC 1999</b>	<b>Ori</b>	<b>Nebula E</b>	<b>*10,11INV IN NEB</b>
Oct 16 1982	12.5"	24mm	MB,PS,BNUC,VMBM,R,12MM-EYE APPEARANCE,TAPERED ENDS,SOME DARK AREA IN NEB	
Feb 20 2006	31"	31mmT5	W/OIII,DIF,MB,VL,NEB DETAIL DET AROUND *,R=G	
<b>H33-6</b>	<b>NGC 869</b>	<b>Per</b>	<b>Open Cluster 6.6 I 3 r</b>	<b>CL,VVL,VRI,*7...14</b>
Sep 20 1981	12.5"	24mm		
Sep 18 1980	12.5"	24mm	H & CHI DOUBLE CLUSTER	
Oct 31 1980	12.5"	24mm		
Oct 03 1981	12.5"	32mm	VB,EL,BRIGHT DIAMOND SHAPE *S IN CENTER,PAIR/884	
Jun 20 1980	12.5"	24mm		
<b>H33-7</b>	<b>NGC 1857</b>	<b>Aur</b>	<b>Open Cluster 11.0 I 3 m</b>	<b>CL,PRI,PC,ST7...</b>
Dec 03 1980	12.5"	24mm	* APROX 7TH MAG IN CLUSTER	
<b>H33-8</b>	<b>NGC 2343</b>	<b>Mon</b>	<b>Open Cluster 8.0 II 2 p n</b>	<b>CL,CL,P,LC</b>

## Herschel 400 (I) Observations

<b>H33-8</b>	<b>NGC 2343</b>	<b>Mon</b>	<b>Open Cluster 8.0 II 2 p n</b>	<b>CL,CL,P,LC</b>
Oct 16 1982	12.5" 24mm		MB,ML,APPROX 15*S,LOOSE,SCATTERED	
Feb 25 1984	12.5" 24mm		SAME	
<b>H34-1</b>	<b>NGC 5248</b>	<b>Boo</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,L,E150,PSBMRN</b>
May 06 1981	12.5" 24mm		VB,VL,BNUC,DIM HALO	
<b>H34-4</b>	<b>NGC 2022</b>	<b>Ori</b>	<b>Planetary Neb 4+2</b>	<b>PLN,PB,VS,VLE</b>
Sep 10 1980	12.5" 24mm			
Sep 10 1980	12.5" 32mm		EASILY DET,NICE	
Oct 31 1980	12.5" 24mm		LOOKS LIKE PALE GREY *	
Dec 30 1983	12.5" 12mm		MF,PS,NO CENTRAL * DET,R,UB,LINE OF F*S OFF TO BOTH SIDES	
Dec 28 2008	31" 17mmT4		MB,ML,R,PATCH,VF C* WITH AV,EDGES FRAILED,OIII DOESN'T HELP MUCH,R=G	
<b>H34-6</b>	<b>NGC 884</b>	<b>Per</b>	<b>Open Cluster 6.4 I 3 r</b>	<b>CL,VL,VRI,RUBY*M</b>
Sep 20 1981	12.5" 24mm			
Sep 18 1980	12.5" 24mm		H & CHI DOUBLE CLUSTER	
Oct 31 1980	12.5" 24mm			
Oct 03 1981	12.5" 32mm		VB,EL,PAIR/869,BEST IN 2" EYEPIECE	
Jun 20 1980	12.5" 24mm			
<b>H34-8</b>	<b>NGC 2353</b>	<b>Mon</b>	<b>Open Cluster 9.0 III 3 p</b>	<b>CL,L,LC,ONEVB*</b>
Oct 16 1982	12.5" 24mm		MB,ML,OVAL,SCATTERED,1 B* IN EDGE OF CLUSTER,WELL PLACED	
Feb 25 1984	12.5" 24mm		SAME	
<b>H35-1</b>	<b>NGC 4216</b>	<b>Vir</b>	<b>Galaxy SAB(s)b:</b>	<b>VB,VL,VME17,SBMN</b>
Mar 08 2010	31" 17mmT4		VB,VL,EDGE ON,SMALL VERY BNUC,F* OFF NUC,SOMEWHAT HISB,GMBM,PAIRS=PGC/MAC,R=E	
Jun 10 1980	6" 24mm			
Apr 25 1981	12.5" 24mm		VB,EL,ELONG,EDGE ON,BNUC,BARM	
<b>H35-6</b>	<b>NGC 136</b>	<b>Cas</b>	<b>Open Cluster 13.0 II 1 p</b>	<b>GCL,VF,S,EC</b>
Sep 28 2013	36" 17mmT4		MB,ML,~20*S SIM MAG,GOOD CLUSTERING,FEW BRTER*S, GOOD FOV,R=G	
Aug 13 1982	12.5" 16mm		MF,VS,R,STARS RESOLVED,20*S,FAINT PATCH IN 24MM	
<b>H36-1</b>	<b>NGC 4550</b>	<b>Vir</b>	<b>Galaxy SB0^: sp</b>	<b>PB,S,VLE,SP OF 2</b>
Jun 04 1981	12.5" 24mm		DIF,PF,PS,ELONG,DARM,NGC 4551 CLOSE BY,PAIR/M89	
<b>H37-2</b>	<b>NGC 4527</b>	<b>Vir</b>	<b>Galaxy SAB(s)bc</b>	<b>PB,L,PME69,MBM</b>
May 03 1981	12.5" 24mm		PB,PL,ELONG,DNUC,FARM,PAIR/4536	
<b>H37-4</b>	<b>NGC 6543</b>	<b>Dra</b>	<b>Planetary Neb 3a+2</b>	<b>PLN,VB,PS,SBMVSN</b>
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	
Mar 26 2006	31" 17mmT4		VF,PL,BRT BLUE,CENTRAL *,DETAIL IN NEB,DARK INNER RING,PAIR=IC4677,R=E	
Jun 23 2003	12.5" 9mmT6		VB,ML,ELONG,OVAL,VERY HISB,BRT NUC,SLIGHTLY ELONG,FAINT HALO AROUND GAL,R=E	
Jun 20 1980	12.5" 24mm			
Jul 22 1981	12.5" 16mm		BLUEISH IN COLOR,PB,MS,NO CENTRAL * DET	
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
<b>H37-5</b>	<b>NGC 7000</b>	<b>Cyg</b>	<b>Nebula E</b>	<b>F,EEL,DIF NEBULOSITY</b>
Sep 19 2012	36" 31mmT5		VB,W/OIII,ABLE TO SLEW ENTIRE OUTLINE OF NA NEB,NUMEROUS AREAS OF FINE NEB DETAIL,GULF AND S END OF MEX BEST CONTRAST,NICE D* IN MEX TIP - PINK & BLUEISH,R=EE	
Aug 13 1982	12.5" 32mm		FITS WELL IN EYEPIECE,FIRST TIME SEEN THIS WELL, IMPRESSIVE!!!	
Aug 11 1982	12.5" 32mm		EL,ONLY CERTAIN OUTLINES DET,HUNDREDS OF *S WITH COSTAL LINE EFFECT	
<b>H37-6</b>	<b>NGC 2506</b>	<b>Mon</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,PL,VRI,C,*11...20</b>
Oct 16 1982	12.5" 24mm		MF,ML,SCATTERED 'S AROUND CLUSTER,DENSE CLUSTERING TOWARDS CENTER,APPROX 60*S	

## Herschel 400 (I) Observations

<b>H37-6</b>	<b>NGC 2506</b>	<b>Mon</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,PL,VRI,C,*11...20</b>
Oct 16 1982	12.5" 24mm	MF,ML,SCATTERED 'S AROUND CLUSTER,DENSE CLUSTERING TOWARDS CENTER,APPROX 60*'S		
<b>H38-2</b>	<b>NGC 4636</b>	<b>Vir</b>	<b>Galaxy E</b>	<b>B,L,IR,VGVMBM,R</b>
Mar 27 1982	12.5" 12mm	DIF,MB,PS,BNUC,COMP SUSP N TIP,B* TO W,MOD HISB,MBM		
Jun 04 1981	12.5" 16mm	MB,ML,BNUC,DIM HALO		
<b>H38-7</b>	<b>NGC 2324</b>	<b>Mon</b>	<b>Open Cluster 12.0 II 2 r</b>	<b>CL,L,RI,CC,ST12...16</b>
Oct 16 1982	12.5" 24mm	VF,ML,APPROX 100*'S,BACKGROUND GLOW,SOME BRT *S IN CLUSTER,WELL PLACED		
Feb 25 1984	12.5" 24mm	SAME		
<b>H38-8</b>	<b>NGC 2422</b>	<b>Pup M47</b>	<b>Open Cluster 5.0 I 3 m</b>	<b>CL,B,VL,PRI,ST L\$S</b>
Oct 16 1982	12.5" 24mm	VB,VL,FILLS 24MM,B*'S,LOOSE AND SCATTERED,APPROX 50*'S DIFF MAG		
Nov 24 2006	12.5" 12mmT4	VB,EL,NOT WELL PLACED,APPROX 20*'S,LOOSLY SCATTERED,M47,R=F		
Mar 27 1982	12.5" 24mm	VB,VL,BRT DOUBLE * IN CENTER,APPROX 25*'S,NO CLUSTERING DET,JUST B*'S		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Dec 03 1980	12.5" 24mm			
<b>H39-1</b>	<b>NGC 4697</b>	<b>Vir</b>	<b>Galaxy E6</b>	<b>VB,L,LE45,SMBMN</b>
Mar 27 1982	12.5" 12mm	MB,ML,ELONG,OVAL,F* TO W,GMBM,TAPPERED ENDS		
<b>H39-4</b>	<b>NGC 2438</b>	<b>Pup</b>	<b>Planetary Neb 4+2</b>	<b>PLN,PB,PS,VLE,R</b>
Mar 27 1982	12.5" 12mm	MF,PS,24MM-NO CENTRAL * DET,R,UB,12MM-CENTRAL * DET,UB,R,SOME DARK PATCHES SUSP		
Mar 19 2004	12.5" 12mmT4	W/OIII. PLANETARY IN M46,RING SHAPE,CENTRAL DARKNESS,DONUT APPEARANCE,R=E		
Dec 28 2008	31" 17mmT4	VB,ML,R,2*'S INSIDE CENT RING,INNER AREA DKER,MOD HISB INNER RING,OIII HELPS,R=E		
Dec 03 1980	12.5" 24mm	PLANETARY IN M46,GREAT!!		
<b>H39-7</b>	<b>NGC 1907</b>	<b>Aur</b>	<b>Open Cluster 11.0 I 1 m n</b>	<b>CL,PRI,PC,R,ST9...12</b>
Mar 27 1981	12.5" 24mm			
<b>H40-6</b>	<b>NGC 6171</b>	<b>Oph M107</b>	<b>Globular</b>	<b>GCL,L,VRI,VMC,R,RRR</b>
Sep 10 1980	12.5" 24mm			
May 09 2010	31" 17mmT4	VB,VL,TYPE VI,RESOLVED TO CORE,LARGE OUTER HALO SCATTERED *S VARIOUS MAG,R=E		
May 07 1980	5" 9mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Jun 18 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
Jul 21 1984	12.5" 16mm	SAME		
Jul 11 1980	12.5" 24mm			
Aug 13 1982	12.5" 16mm	MB,PL,SBM,R,3B*'S AROUND OBJECT,SOME F* SCATTERED		
Apr 16 1980	6" 24mm			
<b>H40-7</b>	<b>NGC 7128</b>	<b>Cyg</b>	<b>Open Cluster 11.5 I 3 m</b>	<b>CL,S,PRI,HASARUBY*9</b>
Aug 11 1982	12.5" 24mm	MB,PS,5 OR 6 B*'S CIRCLING FAINTER *S,STANDS OUT WELL,APPROX 40 *S		
<b>H41-5</b>	<b>NGC 4244</b>	<b>CVn</b>	<b>Galaxy SA(s)cd: sp</b>	<b>PB,VL,EE43,VGBM</b>
Oct 31 1980	12.5" 24mm			
Jan 26 1982	12.5" 24mm	PB,VL,EDGE ON,* ON N TIP,NND,HISB,UB,TAPPERED AT BOTH ENDS		
<b>H41-7</b>	<b>NGC 7296</b>	<b>Lac</b>	<b>Open Cluster 10.0 II 2 p</b>	<b>CL,IR,LC,ST VS</b>
Sep 20 1984	12.5" 24mm	MB,PS,APPROX 20*'S SCATTERED		
Aug 11 1982	12.5" 24mm	MF,VS,1B*W EDGE,R,FOV FULL OF *S WITH HINT OF MANY MORE!!		
<b>H42-1</b>	<b>NGC 4995</b>	<b>Vir</b>	<b>Galaxy SAB(rs)b</b>	<b>PB,PL,R,VGPMBM,*8NP</b>

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<b>H42-1</b>	<b>NGC 4995</b>	<b>Vir</b>	<b>Galaxy SAB(rs)b</b>	<b>PB,PL,R,VGPMBM,*8NP</b>
Feb 12 1983	12.5" 16mm	MB,ML,MOD HISB,UB,NND,PATCHY		
<b>H42-5</b>	<b>NGC 4631</b>	<b>CVn</b>	<b>Galaxy SB(s)d sp</b>	<b>VB,VL,EE70,BMN,*ATTN</b>
Mar 17 2007	31" 17mmT4	EB,EL,ELONG,HISB,ONE SIDE THICKER,MILKY,BRT H2 REGIONS,DUST,F* OFF NUC/TIP,R=E		
Jan 28 1982	12.5" 12mm	VB,VL,EDGE ON,* N OF NUC,F* W TIP,MOD HISB,PATCHES DET IN EQ PLANE		
<b>H42-6</b>	<b>NGC 6939</b>	<b>Cep</b>	<b>Open Cluster 11.9 II 1 r</b>	<b>CL,PL,ERI,PCM,*11.16</b>
Jun 06 1981	12.5" 16mm	PF,PL		
Jul 09 1983	12.5" 24mm	MB,PL,APPROX 100"S,SOMEWHAT V SHAPED,CLUSTER HAS DEFINITE EDGE,PAIR/6946		
Aug 19 1980	12.5" 32mm	LOC THIS FIRST BEFORE 6946		
<b>H42-7</b>	<b>NGC 457</b>	<b>Cas</b>	<b>Open Cluster 8.6 II 3 r</b>	<b>CL,B,L,PRI,*7,8,10</b>
Jul 31 1981	12.5" 16mm	B*S,FEW *S APPROX 20.LARGE SCATTERED THROUGHOUT EYEPIECE		
Jul 17 1980	12.5" 24mm			
<b>H43-1</b>	<b>NGC 4594</b>	<b>Vir M104</b>	<b>Galaxy SA(s)a sp</b>	<b>VB,VL,EE92,VSMBMN</b>
May 07 1980	5" 9mm	EXCELLENT!!,DUST LANE DET,SHAPE DET		
May 01 1981	12.5" 24mm	VB,PL,EDGE ON,BUC,BRT HALO,DUST LANE SEEN THROUGH GAL		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Feb 12 1983	12.5" 16mm	VB,ML,EDGE ON,BNUC,DUST LANE EASILY DET,BRT CENTRAL BULGE,CUT IN TWO		
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		
<b>H43-5</b>	<b>NGC 4258</b>	<b>CVn M106</b>	<b>Galaxy Sb</b>	<b>VB,VL,VME0,SBMBN</b>
Oct 31 1980	12.5" 24mm			
May 07 1980	5" 9mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 08 2010	31" 17mmT4	VB,VL,OVVAL,HISB MIDDLE,ELONG NUC,GMBM,SPRIAL ARMS,SPR STRUCTURE,DUST DET,R=EE		
Mar 02 1984	10" 20mm	SAME		
Jul 05 1980	12.5" 24mm			
Jan 26 1982	12.5" 16mm	VB,VL,BNUC,FAINT HALO,* ON NW EDGE,OVVAL,4217 TO W 1 GAL DIA		
<b>H43-7</b>	<b>NGC 7419</b>	<b>Cep</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,PRI,CC</b>
Sep 04 2002	12.5" 32mm	PB,ML,FEW B*S WITH GLOW IN BACKGROUND		
<b>H43-8</b>	<b>NGC 1750</b>	<b>Tau</b>	<b>Open Cluster OCL</b>	<b>CL,ST L,VCSC</b>
Mar 22 2004	12.5" 25mm	VB,EL,FEW BRT *S LOOSLY SCATTERED,NOT WELL PLACED,OTHER CLUSTERS DET,R=F		
<b>H44-1</b>	<b>NGC 6401</b>	<b>Oph</b>	<b>Globular</b>	<b>PB,PL,R,*12F INV</b>
Jun 04 1981	12.5" 24mm	DIF		
<b>H44-2</b>	<b>NGC 3190</b>	<b>Leo</b>	<b>Galaxy SA(s)a pec sp</b>	<b>B,PS,E,PSBMN</b>
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		
Jan 30 1981	12.5" 24mm	DIF,PB,PL,EDGE ON,DIM NUC,PAIR/3185/3193		
Feb 25 1984	12.5" 12mm	MB,PL,ELONG,MOD HISB,CLOSE PAIR/3193/3185		
Dec 03 1980	12.5" 24mm			
<b>H44-5</b>	<b>NGC 2403</b>	<b>Cam</b>	<b>Galaxy Sc</b>	<b>CB,EL,VME,VGMBMN</b>
Sep 18 1980	12.5" 24mm	2"S IN GAL PRESENT		
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		
<b>H44-7</b>	<b>NGC 7510</b>	<b>Cep</b>	<b>Open Cluster 10.0 II 3 r n</b>	<b>CL,PRI,PC,FAN-SH,B*P</b>
Jul 09 1983	12.5" 16mm	MB,MS,ARROW HEAD SHAPE,APPROX 40"S,SIMILAR TO M103		
Aug 11 1982	12.5" 24mm	MB,VS,B*S RESEMBLE TRI,F*S NW,APPROX 30"S,STANDS OUT WELL		

## Herschel 400 (I) Observations

<b>H44-7</b>	<b>NGC 7510</b>	<b>Cep</b>	<b>Open Cluster 10.0 II 3 r n</b>	<b>CL,PRI,PC,FAN-SH,B*P</b>
Aug 11 1982	12.5" 24mm	MB,VS,B*S RESEMBLE TRI,F*S NW,APPROX 30*S,STANDS OUT WELL		
<b>H45-2</b>	<b>NGC 3193</b>	<b>Leo</b>	<b>Galaxy E2</b>	<b>B,S,VLE,PSLBM,*9NF</b>
Mar 06 2010	31" 17mmT4	EF,VL,R,LARGE BNUC,HISB,GRANULAR HALO AROUND NUC,PARIS=3190/3187,R=E		
Jun 10 1980	6" 24mm	JUST BARELY VISIBLE,DID NOT FIND OTHERS IN AREA		
Jan 30 1981	12.5" 24mm	PB,PL,BNUC,DIM HALO,PAIR/3185/3190		
Feb 25 1984	12.5" 12mm	MB,ML,R,BM,F* TO W,MOD HISB,CLOSE PAIR/3190/3185		
Dec 03 1980	12.5" 24mm			
<b>H45-4</b>	<b>NGC 2392</b>	<b>Gem</b>	<b>Planetary Neb 3b+3b</b>	<b>B,S,R,*9M,*8NF100"</b>
Oct 31 1980	12.5" 24mm	ESKIMO NEBULA,NON STELL,GREAT!!		
Oct 23 1982	12.5" 12mm	CENTRAL * DET,SOME DARK AREAS IN GAS DET		
Oct 16 1982	12.5" 12mm	BLUE,MF,VS,R,UB,NO CENTRAL *		
Nov 22 2006	12.5" 12mmT4	EB,VL,BRT CENTRAL * GOES AWAY WITH AV,BRT BLUE BALL,PATCHY AREAS DET OUTER,R=E		
Feb 21 1984	12.5" 12mm	MB,PS,ESKIMO NUBULA,CENTRAL * EASILY DET,PATCHED IN NEB DET,FORMS TRI W2*S		
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		
<b>H45-5</b>	<b>NGC 3953</b>	<b>UMa</b>	<b>Galaxy SB(r)bc</b>	<b>CB,L,E0,VSMBLRN</b>
Mar 15 1985	12.5" 16mm	SAME,PB,PL,BNUC,F* JUST W OF NUC,FACE ON,SPR STR DET		
Feb 12 1983	12.5" 16mm	MB,PL,DNUC,F*W EDGE,OVAL,SOFT DIM NUC,VMBM,FACE ON,HALO		
<b>H45-7</b>	<b>NGC 436</b>	<b>Cas</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,S,IF,PC</b>
Aug 13 1982	12.5" 24mm	MF,MS,20-30 *S,LOOSE,SCATTERED		
<b>H46-5</b>	<b>NGC 3556</b>	<b>UMa M108</b>	<b>Galaxy SB(s)cd sp</b>	<b>CB,VL,VME79,PBM,R</b>
Sep 18 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
Oct 22 1982	12.5" 16mm	DIF,MB,VL,F*N EDGE,EDGE ON,UB,LARGE,NND		
May 07 1980	5" 9mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 15 1985	12.5" 12mm	MB,PL,VERY EDGE ON,F*N EDGE,B*CENTER,MOD HISB,KNTY STR SUSP,EXCELLENT!!!		
Mar 08 2013	36" 17mmT4	MESSIER MARATHON 2013		
Mar 02 1984	10" 20mm	SAME		
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		
Apr 16 1980	6" 24mm	IN SAME FOV WITH M97		
<b>H46-7</b>	<b>NGC 654</b>	<b>Cas</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,IF,RI,1*6.7,</b>
Jul 31 1981	12.5" 24mm	SMALL,LITTLE DIFFUSENESS SEEN IN CLUSTER,FEW *S		
<b>H47-1</b>	<b>NGC 6712</b>	<b>Sct</b>	<b>Globular</b>	<b>GCL,PB,VL,IRR,RRR</b>
Sep 05 2007	31" 17mmT4	PB,VL,OVAL,HUNDREDS *S,RESOLVED TO CORE,*S MOSTLY SAME MAG,R=E		
Aug 13 2007	31" 31mmT5	VB,VL,RESOLVED,17MM *S IN CORE DET,R=E		
Aug 13 1982	12.5" 16mm	MB,VL,OVAL,PATCHY,SBM,OUTTER *S STARTING TO RESOLVE		
<b>H47-5</b>	<b>NGC 3079</b>	<b>UMa</b>	<b>Galaxy SB(s)c sp</b>	<b>VB,L,ME135</b>
Oct 22 1982	12.5" 16mm	MF,ML,EDGE ON,F*N TIP,F*E SIDE,UB,TAPPED,NND		
Mar 15 1985	12.5" 12mm	PB,PL,F* IN N TIP,SAME *S PRESENT,S PART THICKER THAN N		
Mar 06 2003	12.5" 9mmT6	VB,EL,EDGE ON,MOD HISB,CENTRAL BULGE,SBM,DUST LANE SUSP,PAIR=3073,R=E		
Jan 08 2003	12.5" 9mmT6	VB,BL,EDGE ON,DUST DET,SLIGHTLY BULGE IN MIDDLE,F* IN TIP,MOD HISB,PAIR/3073		
Dec 03 1980	12.5" 24mm	LOOKS LIKE MINATURE M82		
<b>H47-7</b>	<b>NGC 1502</b>	<b>Cam</b>	<b>Open Cluster 7.0 I 3 m</b>	<b>CL,PRI,CC,IF</b>

## Herschel 400 (I) Observations

<b>H47-7</b>	<b>NGC 1502</b>	<b>Cam</b>	<b>Open Cluster 7.0 I 3 m</b>	<b>CL,PRI,CC,IF</b>
Oct 03 1981	12.5" 24mm	MB,ML,BRT DOUBLE * IN CENTER,APPROX 20*S,NICE IN 24MM		
<b>H48-1</b>	<b>NGC 6356</b>	<b>Oph</b>	<b>Globular</b>	<b>GCL,VB,CL,VGVM,RRR</b>
Jun 18 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
Jun 04 1981	12.5" 24mm	MB,ML,BNUC		
Jul 21 1984	12.5" 12mm	MB,ML,BNUC,R,HISB MIDDLE,*S NOT RESOLVED		
<b>H48-7</b>	<b>NGC 559</b>	<b>Cas</b>	<b>Open Cluster 9.0 I 1 m</b>	<b>CL,B,PL,PRI</b>
Jul 31 1981	12.5" 24mm	FEW B*S, MOSTLY FAINTER *S APPROX 10-11 MAG,APPROX 50*S IN ALL		
<b>H49-7</b>	<b>NGC 637</b>	<b>Cas</b>	<b>Open Cluster 8.0 I 2 m</b>	<b>CL,PS,B\$VF ST</b>
Jul 31 1981	12.5" 24mm	SMALL IN SOMEWHAT BARREN * FIELD,FEW F*S SEEN		
<b>H50-2</b>	<b>NGC 3607</b>	<b>Leo</b>	<b>Galaxy SA(s)0^:</b>	<b>VB,L,R,VMBM,2ND OF 3</b>
Mar 06 2010	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,PAIRS=3606/3605/PGC34407,R=E		
Mar 03 1984	12.5" 12mm	VB,ML,BNUC,R,BM,PAIRS/3608/3605		
Jun 10 1980	6" 24mm	VERY DIFFICULT TO FIND. NO GUIDE *S		
Jan 30 1981	12.5" 24mm	PB,PL,BNUC,PAIR/3605/3608		
<b>H50-4</b>	<b>NGC 6229</b>	<b>Her</b>	<b>Globular</b>	<b>GCL,VB,L,R,DISC,R</b>
Jun 17 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Feb 25 1982	12.5" 16mm	MB,MS,BNUC,MOD HISB,ALMOST RESOLVED,R		
Apr 18 1980	6" 24mm	LOOKS LIKE 3RD * IN A TRI		
<b>H51-2</b>	<b>NGC 3608</b>	<b>Leo</b>	<b>Galaxy E2</b>	<b>B,PL,R,PSBM,3RD OF 3</b>
Mar 10 2007	31" 17mmT4	MF,MS,OVAL,LARGE FNUC,PAIRS=MAC'S,R=F		
Mar 03 1984	12.5" 12mm	MB,ML,BNUC,SLIGHTLY ELONG,BM,SEVERAL *S NE AND NW,PAIR/3607/3605		
Jan 30 1981	12.5" 24mm	DIF,PF,PL,ELONG,FAINT NUC AND HALO,PAIR/3605/3607		
<b>H51-4</b>	<b>NGC 6818</b>	<b>Sgr</b>	<b>Planetary Neb 4</b>	<b>PLN,B,VS,R</b>
Sep 20 1984	12.5" 12mm	PB,PS,F* JUST TO W,UB,R		
Sep 20 1981	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		
Jun 18 1980	12.5" 24mm			
Jun 17 1980	12.5" 9mm	GREAT,LOOKS LIKE 6210		
Jul 30 2002	12.5" 16mm	MB,ML,BRT BLUE GREEN,VERY ROUND		
Jul 15 1980	12.5" 24mm			
<b>H51-7</b>	<b>NGC 7062</b>	<b>Cyg</b>	<b>Open Cluster 10.1 II 2 m</b>	<b>CL,PS,PRI,PC,ST13...</b>
Aug 11 1982	12.5" 24mm	MB,ML,UNIFORM DIST,FEW B*S WITH F*S,R,APPROX 50*S		
<b>H52-1</b>	<b>NGC 7006</b>	<b>Del</b>	<b>Globular</b>	<b>B,PL,R,GBM</b>
Jul 31 2002	12.5" 12mm	SAME		
Jul 30 1981	12.5" 24mm	BNUC,NO *S IN HALO SEEN,R,SMALL VERY DIF		
Jul 08 1983	12.5" 12mm	DIF,MF,MS,FNUC,R,SBM,SOFT GLOW		
<b>H52-2</b>	<b>NGC 3626</b>	<b>Leo</b>	<b>Galaxy S0-a</b>	<b>B,S,VLE,SBM</b>
Mar 03 1984	12.5" 12mm	MB,PS,BNUC,R,BM		
Jan 30 1981	12.5" 24mm	VB,PS,BNUC,PAIR/M65/M66/3628		
<b>H52-5</b>	<b>NGC 3359</b>	<b>UMa</b>	<b>Galaxy SB(rs)c</b>	<b>PB,L,E0,GLBM</b>
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		
<b>H53-1</b>	<b>NGC 7331</b>	<b>Peg</b>	<b>Galaxy SA(s)b</b>	<b>B,PL,PME163,SMBM</b>

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<b>H53-1</b>	<b>NGC 7331</b>	<b>Peg</b>	<b>Galaxy SA(s)b</b>	<b>B,PL,PME163,SMBM</b>
Sep 21 1984	12.5" 12mm		MB,ML,EDGE ON,SAME,COMP CLOSE BY	
Sep 18 1982	12.5" 16mm		MB,ML,EDGE ON,BNUC,DUST LANE SUSP,TAPPERED ENDS,7335 CLOSE BY	
Sep 18 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 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Sep 01 2002	12.5" 12mm		SAME	
Jun 27 2003	12.5" 9mmT6		EB,EL,BNUC,VERY HISB,DUST DET,LARGE BRT NUC,FAINT HALO & ARMS,OTHERS PRESENT,R=E	
Jun 20 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm		TWILIGHT STARTING,OBJECT WASHED OUT	
Jul 29 1981	12.5" 24mm		SAME,3 COMP GAL SEEN,7335/7336/7340	
Jul 17 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 07 1981	12.5" 24mm		PB,PL,EDGE ON,BRT NUC,DIM AREA	
Jul 06 1983	12.5" 16mm		MB,PL,EDGE ON,LARGE BNUC,TAPPERED ENDS,DUST LANE SUSP IN 12MM	
<b>H53-4</b>	<b>NGC 1501</b>	<b>Cam</b>	<b>Planetary Neb 3</b>	<b>PLN,PB,PS,VLE,1'DIAM</b>
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	
Oct 03 1981	12.5" 12mm		VERY R,UB,F CENTRAL * 14TH MAG DET,GREEN,DIF,MF,MS	
<b>H53-7</b>	<b>NGC 7209</b>	<b>Lac</b>	<b>Open Cluster 9.0 III 1 m</b>	<b>CL,L,CRI,PC,ST9...12</b>
Sep 20 1984	12.5" 24mm		VB,VL,APPROX 40-50*S,SCATTERED,NICE,*S APPROX SAME MAG	
Jul 15 1980	12.5" 24mm		CLUSTER WELL PLACED	
<b>H54-4</b>	<b>NGC 4143</b>	<b>CVn</b>	<b>Galaxy SAB(s)0^</b>	<b>CB,R,VG,VSBMN</b>
Jul 05 1980	12.5" 24mm			
Jan 26 1982	12.5" 16mm		PB,ML,BNUC,NUC DET,VMBM	
Feb 12 1983	12.5" 16mm		MB,PS,ELONG,BNUC,SBM,TAPPERED	
<b>H55-1</b>	<b>NGC 7479</b>	<b>Peg</b>	<b>Galaxy SB(s)c</b>	<b>PB,CL,ME12,BET2ST</b>
Sep 21 1984	12.5" 16mm		SAME,MB,PL,VF* ON N TIP,FACE ON,SPR SHAPE DET,S ARM BRT THAN N	
Oct 07 2010	31" 17mmT4		PB,PL,SMALL BNUC,SCORPIN TAIL,BARRED SPIRAL,ONE SIDE,BRTER ARM THAN OTHER,ARMS,R=E	
Jul 15 1980	12.5" 24mm		EF,PL	
Jul 11 1980	12.5" 24mm			
Jul 07 1981	12.5" 24mm		DIF,MF,PL,DIM ARMS,F* (15MAG) ON N SIDE	
<b>H55-2</b>	<b>NGC 4394</b>	<b>Com</b>	<b>Galaxy (R)SB(r)b</b>	<b>PB,LE,BM</b>
Mar 27 1981	12.5" 24mm			
Mar 08 2010	31" 17mmT4		MB,MS,ELONG,LARGE BNUC,MOD HISB MIDDLE,GMB,PAIR=4382,R=G	
Feb 12 1983	12.5" 16mm		MF,MS,DNUC,R,SBM,PAIR/4382	
<b>H55-7</b>	<b>NGC 7762</b>	<b>Cep</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,PRI,PC,*11...15</b>
Jul 09 1983	12.5" 24mm		MF,ML,DOESNOT STAND OUT WELL,LOOSE	
<b>H56-1</b>	<b>NGC 2903</b>	<b>Leo</b>	<b>Galaxy SAB(rs)b</b>	<b>CB,VL,E,GMBM,R,SPOF2</b>
Oct 31 1980	12.5" 24mm			
Mar 17 2018	36" 17mmT4		VB,VL,GRANULAR HAZE,BRT PATCHY REGIONS,S SOFT NUC,GMBM,BAR DET,ARMS ATTACHED BOTH ENDS,SHARP HOOK,R=E	
Jun 10 1980	6" 24mm			
Jan 30 1981	12.5" 24mm		VB,VL,BNUC,DIF HALO,GREAT!!	

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<b>H56-1</b>	<b>NGC 2903</b>	<b>Leo</b>	<b>Galaxy SAB(rs)bc</b>	<b>CB,VL,E,GMBM,R,SPOF2</b>
Jan 30 1981	12.5"	24mm	VB,VL,BNUC,DIF HALO,GREAT!!	
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, AWESOME,R=E	
Feb 25 1984	12.5"	12mm	MB,PL,ELONG,BNUC,3*S OFF TO ONE SIDE,SBM,MOD BRT EQ PLANE	
Dec 03 1980	12.5"	24mm		
Apr 16 1980	6"	24mm	SPR STR SUSP,DIF	
<b>H56-2</b>	<b>NGC 4450</b>	<b>Com</b>	<b>Galaxy SA(s)ab</b>	<b>B,L,R,GVMBM*,R,B*SP</b>
Mar 16 2010	31"	17mmT4	VB,VL,ELONG,SMALL BNUC,SMBM,HISB MIDDLE,GRANULAR OVAL ARMS,R=E	
Jun 10 1980	6"	24mm		
Feb 12 1983	12.5"	16mm	MB,ML,FNUC,R,LARGE NUC,HALO DET	
<b>H56-4</b>	<b>NGC 4051</b>	<b>UMa</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,VL,E,VGVSMBM*11</b>
Feb 12 1983	12.5"	16mm	MB,PL,FAINT NUC,F*W EDGE,BRT * E,STELL NUC,KNTS SUSP,FACE ON,OVAL	
<b>H56-7</b>	<b>NGC 7790</b>	<b>Cas</b>	<b>Open Cluster 10.0 II 2 m</b>	<b>CL,PRI,PC</b>
Jul 31 1981	12.5"	24mm	FEW *S,SCATTERED IN FIELD *S	
<b>H56-8</b>	<b>NGC 6910</b>	<b>Cyg</b>	<b>Open Cluster 9.6 I 3 m n</b>	<b>CL,PB,PS,P,PC,*20.12</b>
Aug 13 1982	12.5"	24mm	VERY LOOSE,APPROX 20 *S,PB,PL	
<b>H57-7</b>	<b>NGC 2192</b>	<b>Aur</b>	<b>Open Cluster 14.0 II 2 m</b>	<b>CL,CL,C,IF,ST VS</b>
Oct 20 2006	31"	17mmT4	VB,VL,APPROX 50*S SIMILAR MAG,FEW BRTER *S,WELL PLACED,CLUSTERING GOOD,R=G	
<b>H58-4</b>	<b>NGC 40</b>	<b>Cep</b>	<b>Planetary Neb 3b+3</b>	<b>F,VS,R,VSMBM,*12SP</b>
Sep 02 2008	31"	17mmT4	PB,ML,OVAL,LAYERS OF RINGS DET,BRT C*,GREENISH,F* ON EDGE,OIII NO HELP,R=E	
Jul 09 1983	12.5"	12mm	MB,PS,BNEC,BRT CENTRAL *,SHARP EDGES,R	
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	
<b>H58-7</b>	<b>NGC 2479</b>	<b>Pup</b>	<b>Open Cluster III 1 m</b>	<b>CL,PL,PRI,PC,ST S</b>
Oct 16 1982	12.5"	24mm	MF,VL,40-50*S,SCATTERED,APPROX SAME MAG	
<b>H58-8</b>	<b>NGC 6997</b>	<b>Cyg</b>	<b>Open Cluster III 2 m n</b>	<b>CL,P,LC,ST L</b>
Sep 04 2002	12.5"	32mm	VB,EL,APPROX 40*S VARYING IN BRIGHTNESS,WELL PLACED IN 32MM	
<b>H59-7</b>	<b>NGC 6866</b>	<b>Cyg</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,L,VRI,CC</b>
Jun 06 1981	12.5"	16mm	MB,MS	
<b>H59-8</b>	<b>NGC 1664</b>	<b>Aur</b>	<b>Open Cluster 10.0 III 1 p</b>	<b>CL,LRI,LC,PL</b>
Feb 09 2013	36"	31mmT5	EB,EL,APPROX 100*S SCATTERED VARIOUS MAG'S,MOD CLUSTERING,FILLS FOV,R=G	
Aug 21 1982	12.5"	24mm	MB,PL,B* OUTSIDE CLUSTER,*S SAME MAG,APPROX 50*S,SCATTERED,NICE IN 24MM	
Apr 16 1980	6"	24mm	VERY DISPERSE,FILLS FOV,SOMEWHAT DETECTABLE	
<b>H60-4</b>	<b>NGC 3310</b>	<b>UMa</b>	<b>Galaxy SAB(r)bc pec</b>	<b>CB,PL,R,VG,VSMBMN</b>
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	
Mar 15 1985	12.5"	12mm	SAME	
Dec 03 1980	12.5"	24mm		
<b>H60-7</b>	<b>NGC 1513</b>	<b>Per</b>	<b>Open Cluster 11.0 II 1 m</b>	<b>CL,L,VRI,PC,ST VL</b>
Sep 03 1980	12.5"	24mm		
Oct 03 1981	12.5"	24mm	MB,ML,APPROX 40*S,DARK PATCH IN CENTER,U SHAPED	
<b>H60-8</b>	<b>NGC 2311</b>	<b>Mon</b>	<b>Open Cluster 12.0 III 2 m</b>	<b>CL,LC,NOT RI</b>
Oct 16 1982	12.5"	24mm	MF,ML,APPROX 40*S SAME MAG,R	
<b>H61-1</b>	<b>NGC 2974</b>	<b>Sex</b>	<b>Galaxy E4</b>	<b>B,CS,IR,BM,*9SP43"</b>
Oct 22 1982	12.5"	12mm	MF,VS,SLIGHTLY ELONG,B* ON W TIP,HISB,GMBM	
Jan 29 2014	36"	17mmT4	MB,ML,OVAL,LARGE BNUC,* OFF EDGE,MOD HISB MIDDLE,R=G	
<b>H61-4</b>	<b>NGC 3992</b>	<b>UMa M109</b>	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SBMBRN</b>



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<b>H61-4</b>	<b>NGC 3992</b>	<b>UMa M109</b>	<b>Galaxy SB(rs)bc</b>	<b>CB,VL,PME,SBMBRN</b>
Sep 18 1980	12.5"	24mm		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
Dec 26 2003	31"	17mmT4	EB,EL,ELONG,VERY LARGE BNUC,HISB NUC,FARMS DET,PATCHY AREAS DET,M109,R=E	
<b>H61-7</b>	<b>NGC 1528</b>	<b>Per</b>	<b>Open Cluster 10.0 II 2 m</b>	<b>CL,B,VRI,CC</b>
Sep 03 1980	12.5"	24mm		
Oct 03 1981	12.5"	24mm	VB,VL,ONE HALF CLUSTER BRT THAN OTHER,APPROX 50*S	
Jul 17 1980	12.5"	24mm		
<b>H61-8</b>	<b>NGC 1778</b>	<b>Aur</b>	<b>Open Cluster 10.1 III 2 p</b>	<b>CL,PC,LRI,IF,ST L</b>
Sep 06 2002	12.5"	24mm	PB,ML,APPROX 20*S,LOOSLY SCATTERED,*S SIMILAR MAG	
<b>H62-4</b>	<b>NGC 3982</b>	<b>UMa</b>	<b>Galaxy SAB(r)b:</b>	<b>B,PL,R,G,SBM,DISC</b>
Feb 12 1983	12.5"	16mm	MB,MS,DNUC,R,SBM,SAME 24MM FIELD WITH 3998	
<b>H62-7</b>	<b>NGC 6756</b>	<b>Aql</b>	<b>Open Cluster 13.0 I 1 m</b>	<b>CL,S,RI,LC,*11..12</b>
Jul 10 1981	12.5"	16mm	INDIVIDUAL *S JUST BARELY VISIBLE,VERY DIF,RESEMBLES A LARGE GAL OR GLOBULAR X	
Aug 31 1984	12.5"	16mm	SAME	
<b>H63-1</b>	<b>NGC 1052</b>	<b>Cet</b>	<b>Galaxy E4</b>	<b>B,PL,R,MBM*12</b>
Sep 27 1981	12.5"	16mm	PB,MS,BNUC,MBM,R,F*NW 1 GAL DIA SUSP,PAIR/1048	
Sep 18 1980	12.5"	24mm		
Sep 07 1980	12.5"	24mm		
<b>H64-1</b>	<b>NGC 1084</b>	<b>Eri</b>	<b>Galaxy SA(s)c</b>	<b>VB,PL,E,GPMBM</b>
Sep 09 1980	12.5"	24mm		
Oct 31 1980	12.5"	24mm		
Oct 24 1981	12.5"	12mm	MB,ML,ELONG,HISB,PATCHY,NND,VMBM	
<b>H64-4</b>	<b>NGC 2440</b>	<b>Pup</b>	<b>Planetary Neb 5+3</b>	<b>PLN,CB,NOT VWELL DEF</b>
Dec 28 2008	31"	17mmT4	VB,PL,EL,NO C*,IRR,2 HALVES/LOBS,HISB MIDDLE,F OUT SHELL,OIII HELP DETAIL,R=E	
Dec 03 1980	12.5"	24mm	SIM TO SATURN NEBULA,BRT BLUE,SLIGHT DIF NEB AROUND OBJECT	
<b>H64-8</b>	<b>NGC 381</b>	<b>Cas</b>	<b>Open Cluster 10.0 III 1 m</b>	<b>CL,PC</b>
Sep 28 2013	36"	17mmT4	VB,BL,~30*S,LOOSLY SCATTERED,FILLS FOV,R=F	
Sep 03 1980	12.5"	24mm		
Jul 31 1981	12.5"	24mm	BLENDS IN WITH FIELD OF *S OF APPROX SAME MAG	
<b>H65-1</b>	<b>NGC 4361</b>	<b>Crv</b>	<b>Planetary Neb 3a+2</b>	<b>VB,L,R,VSMBMN,R</b>
May 03 1981	12.5"	16mm	BLUE GREEN,PB,PL,CENTRAL * APPROX 11MAG DET	
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	
<b>H65-2</b>	<b>NGC 4429</b>	<b>Vir</b>	<b>Galaxy SA(r)0+</b>	<b>B,L,CE,PSBM,*10NF</b>
Apr 25 1981	12.5"	24mm	DIF,PB,PL,FNUC,DARM	
<b>H65-8</b>	<b>NGC 659</b>	<b>Cas</b>	<b>Open Cluster 10.0 I 2 m</b>	<b>CL,LRI,ST B</b>
Aug 13 1982	12.5"	24mm	MF,MS,SCATTERED,APPEARS TO BE BROKEN IN CENTER,CLOSE TO 663	
<b>H66-7</b>	<b>NGC 7142</b>	<b>Cep</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,CL,CRI,PC,*11..14</b>
Jul 09 1983	12.5"	24mm	MB,ML,LOOSE-SCATTERED,APPROX 40*S SAME MAG	
Aug 11 1982	12.5"	24mm	MF,VL 3OR 4 B*S WITH HUNDREDS OF F*S SCATTERED,PAIR/7129	
<b>H66-8</b>	<b>NGC 1027</b>	<b>Cas</b>	<b>Open Cluster 9.0 II 3 m n</b>	<b>CL,L,SC ST,ONE10M</b>
Aug 13 1982	12.5"	24mm	VB,VL,BRT * IN CLUSTER,15*S	
<b>H67-1</b>	<b>NGC 3962</b>	<b>Crt</b>	<b>Galaxy E1</b>	<b>CB,PL,IR,GMBM,TRI2*</b>
Feb 12 1983	12.5"	16mm	MB,VS,BNUC,R,HISB,BM	

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<b>H67-1</b>	<b>NGC 3962</b>	<b>Crt</b>	<b>Galaxy E1</b>	<b>CB,PL,IR,GMBM,TRI2*</b>
Feb 12 1983	12.5" 16mm	MB,VS,BNUC,R,HISB,BM		
<b>H67-7</b>	<b>NGC 2421</b>	<b>Pup</b>	<b>Open Cluster 11.0 I 2 r</b>	<b>CL,L,CRI,*11...13</b>
Oct 16 1982	12.5" 24mm	MF,ML,LOOSE AND SCATTERED,APPROX 30"S SAME MAG		
Dec 03 1980	12.5" 24mm			
<b>H67-8</b>	<b>NGC 7160</b>	<b>Cep</b>	<b>Open Cluster 7.0 I 3 p</b>	<b>CL,P,VLC</b>
Jul 09 1983	12.5" 24mm	MB,ML,COUPLE OF B"S IN CLUSTER WITH FAINTER "S,APPROX 50"S,LOOSE		
Aug 11 1982	12.5" 24mm	VB,MS,2B"S IN CENTER,20-30 "S,DOES NOT STAND OUT WELL IN FOV		
<b>H68-1</b>	<b>NGC 4856</b>	<b>Vir</b>	<b>Galaxy SB(s)0/a</b>	<b>B,R,PSMBM,*13NP</b>
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,R,BM,VF* ON N EDGE		
<b>H68-4</b>	<b>NGC 2950</b>	<b>UMa</b>	<b>Galaxy (R)SB(r)0^</b>	<b>B,PS,R,VGVMBMN</b>
Oct 16 1982	12.5" 12mm	MF,PS,BNUC,* OFF NW SEVERAL GAL DIA,GMBM,OVAL		
Mar 15 1985	12.5" 12mm	SAME,PF,VS,BNUC,R,BM,NO "S CLOSE IN		
Dec 03 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
Apr 14 2004	31" 17mmT4	MF,PS,R,LARGE BNUC,SEVERAL F"S ON EDGE OF HALO,HISB MIDDLE,GMBM,R=G		
<b>H68-8</b>	<b>NGC 2126</b>	<b>Aur</b>	<b>Open Cluster 13.0 III 2 m</b>	<b>CL,NOT RI,*7M NORTH</b>
Aug 21 1982	12.5" 24mm	MF,PL,B* IN CLUSTER,TRI SHAPE,APPROX 20-30"S,NICE IN 24MM		
<b>H69-8</b>	<b>NGC 7686</b>	<b>And</b>	<b>Open Cluster 7.0 III 2 p</b>	<b>CL,P,LC,*7...11</b>
Sep 10 1980	12.5" 24mm			
Aug 31 1984	12.5" 24mm	SAME		
Aug 11 1982	12.5" 24mm	MB,PL,B ORANGE * IN CENTER,LOOSE,LITTLE CLUSTERING EFFECT,APPROX 40"S		
<b>H70-1</b>	<b>NGC 5634</b>	<b>Vir</b>	<b>Globular</b>	<b>GCL,VB,CL,R,GBM,RRR</b>
Jun 11 1983	12.5" 20mm	VB,PL,BNUC,TRI OF B"S AROUND OBJECT,HISB,BM		
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		
<b>H71-2</b>	<b>NGC 4660</b>	<b>Vir</b>	<b>Galaxy E:</b>	<b>VB,S,VSVMBMN</b>
Jun 04 1981	12.5" 24mm	PF,PS,DNUC,DIM HALO,PAIR/M59		
<b>H71-8</b>	<b>NGC 2281</b>	<b>Aur</b>	<b>Open Cluster 8.0 I 3 m</b>	<b>CL,PRI,VLC,ST PL</b>
Oct 16 1982	12.5" 24mm	MB,VL,APPROX 30"S,STANDS OUT WELL,HOUR GLASS SHAPE,LOOSE		
<b>H72-8</b>	<b>NGC 6633</b>	<b>Oph</b>	<b>Open Cluster 8.0 III 2 m</b>	<b>CL,LC,ST L</b>
Jun 04 1981	12.5" 32mm	EB,EL		
<b>H73-1</b>	<b>NGC 4150</b>	<b>Com</b>	<b>Galaxy SA(r)0^?</b>	<b>B,S,R,PGMBM</b>
Feb 27 1982	12.5" 16mm	MF,MS,BNUC,GMBM,R		
<b>H73-4</b>	<b>NGC 6826</b>	<b>Cyg</b>	<b>Planetary Neb 3a+2</b>	<b>PLN,B,PL,R,*11M</b>
Sep 02 2008	31" 17mmT4	VB,VL,R,GREENISH TECTURE BRT BALL,C* VERY BRT 10TH MAG,OIII NOT MUCH HELP,R=E		
Jun 20 1980	12.5" 9mm	BRT CENTRAL * EASILY SEEN		
Jun 17 1980	12.5" 16mm	GREAT,GREENISH BLUE COLOR,USE BARLOW AND 16MM		
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		
<b>H74-1</b>	<b>NGC 4245</b>	<b>Com</b>	<b>Galaxy SB(r)0/a:</b>	<b>CB,PL,VLE,SMBM,R</b>
Feb 27 1982	12.5" 16mm	MB,ML,BNUC,R,SMALL NUC		
<b>H74-4</b>	<b>NGC 7023</b>	<b>Cep</b>	<b>Nebula R</b>	<b>*7IN EF,EL,NEBY</b>
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		
Jul 09 1983	12.5" 12mm	DIF,MB,MS,GAS AROUND B*,SOME DETAIL IN GAS DET		
<b>H75-1</b>	<b>NGC 4274</b>	<b>Com</b>	<b>Galaxy (R)SB(r)ab</b>	<b>VB,VL,E90,MBMN</b>
Feb 27 1982	12.5" 16mm	MB,VL,ELONG,BNUC,FAINT HALO,SMALL NUC,DIF HALO AROUND NUC		

## Herschel 400 (I) Observations

<b>H75-1</b>	<b>NGC 4274</b>	<b>Com</b>	<b>Galaxy (R)SB(r)ab</b>	<b>VB,VL,E90,MBMN</b>
Feb 27 1982	12.5" 16mm	MB,VL,ELONG,BNUC,FAINT HALO,SMALL NUC,DIF HALO AROUND NUC		
Feb 12 1983	12.5" 24mm	MB,PL,ELONG,BNUC,TAPPERED ENDS,PAIR/4278/4283		
<b>H75-2</b>	<b>NGC 4762</b>	<b>Vir</b>	<b>Galaxy SB(r)0<sup>+</sup>? sp</b>	<b>PB,VME31,3B*S,F OF 2</b>
Feb 12 1983	12.5" 16mm	MB,MS,3B*S OFF TO A SIDE,APPEARS LIKE M104,PAIR/4754		
<b>H75-8</b>	<b>NGC 7243</b>	<b>Lac</b>	<b>Open Cluster 8.0 II 2 m</b>	<b>CL,L,P,LC,ST VL</b>
Sep 20 1984	12.5" 24mm	VB,VL,RICH * FIELD,PPEARS TO BE 2 CLUSTERS SIDE BY SIDE,APPROX 40*S		
Jul 15 1980	12.5" 24mm	CLUSTER WELL PLACED		
<b>H76-1</b>	<b>NGC 4314</b>	<b>Com</b>	<b>Galaxy SB(rs)a</b>	<b>CB,L,E150,SBM,*NP</b>
Feb 12 1983	12.5" 24mm	PB,ML,EDGE ON,BNUC,F*N TIP,BM,TAPPERED		
<b>H76-4</b>	<b>NGC 6946</b>	<b>Cep</b>	<b>Galaxy SAB(rs)cd</b>	<b>VF,VL,VG,VSBM,RR</b>
Sep 12 2012	36" 17mmT4	PB,VL,SMALL BNUC,SPIRAL ARMS,KNOTS IN ARMS DET,H2 REGIONS DET,R=E		
Jun 22 2003	12.5" 9mmT6	VB,EL,R,NND,SHISB,AREAS OF PATCHES DET,SEVERAL *S IN GAL,R=E		
Jun 06 1981	12.5" 16mm	DIF,VL,MB,SOME SPR STR DET,FACE ON,SEVEAL *S IN GAL,RESEMBLES M33		
Jul 09 1983	12.5" 24mm	MF,VL,OVVAL,3B*S TO ONE SIDE,SEVERAL F*S IN GAL,SPR STR SUSP,PAIR/6939		
Aug 19 1980	12.5" 32mm	VF,COULD NOT FIND IN 24MM		
Aug 14 1982	12.5" 16mm	EDIF,MF,PL,PATCHY,OVVAL,NND,STARS IN GAL,SEE CARD FOR DRAWING		
<b>H77-1</b>	<b>NGC 4414</b>	<b>Com</b>	<b>Galaxy SA(rs)c?</b>	<b>VB,L,E,G,VSBM*</b>
Feb 12 1983	12.5" 16mm	VB,ML,BNUC,BM,DIF HALO,SLIGHTLY ELONG,NO *S ON EDGE LIKE PHOTO		
<b>H77-8</b>	<b>NGC 7380</b>	<b>Cep</b>	<b>Open Cluster 10.0 III 2 m n</b>	<b>CL,PL,PRI,LC,*9...13</b>
Jul 09 1983	12.5" 24mm	MB,PL,SAME DEC AS 7261,LARGE TRI SHAPE,LOOSE,SCATTERED,APPROX 50*S		
Aug 11 1982	12.5" 24mm	MB,PL,50-70*;S,FAINT GLOW BETWEEN *S,TRI SHAPE CLUSTER,GRT > 10 ARC MIN		
<b>H78-1</b>	<b>NGC 2985</b>	<b>UMa</b>	<b>Galaxy (R')SA(rs)ab</b>	<b>VB,CL,R,PSBMB,*INV F</b>
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,F*E SIDE,R,VMBM		
Dec 03 1980	12.5" 24mm	F* IN ARM REGION		
Aug 22 1980	12.5" 24mm			
Apr 14 2004	31" 17mmT4	VB,PL,R,LARGE BNUC,MOD HISB,HISB MIDDLE,R=E		
<b>H78-8</b>	<b>NGC 225</b>	<b>Cas</b>	<b>Open Cluster 9.3 III 1 p n</b>	<b>CL,L,LC,*9...10</b>
Sep 28 2013	36" 17mmT4	PB,EL,~15*S,LOOSLY SCATTERED,SIM MAG,DOESNOT STAND OUT WELL,R=PF		
Aug 13 1982	12.5" 24mm	MB,PL,18-21 *S,SPREADS OUT WELL,*S APPROX SAME MAGNITUDE		
<b>H79-1</b>	<b>NGC 3147</b>	<b>Dra</b>	<b>Galaxy SA(rs)bc</b>	<b>VB,L,R,VGVSVMBM</b>
Oct 22 1982	12.5" 16mm	MB,ML,BNUC,INSIDE 4*S,R,SMBM,SMALL BRT NUC		
Apr 23 2003	12.5" 9mmT6	VB,VL,OVVAL,BNUC,MHISB,ARMS SUSP,BRT AREAS IN HALO,GMBM,R=E		
<b>H79-4</b>	<b>NGC 3034</b>	<b>UMa M82</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
Sep 18 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 09 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
Oct 22 1982	12.5" 12mm	VB,VL,EDGE ON,VERY HISB,2 DUST LANES DET,BRT REGIONS DET,TAPPERED,KNTY		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 15 1985	12.5" 12mm	SAME,IRR		
Mar 08 2013	36" 17mmT4	MESSIER MARATHON 2013		
Mar 02 1984	10" 20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES		
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		
Feb 04 2005	31" 17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BROKEN,BEST TO		

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<b>H79-4</b>	<b>NGC 3034</b>	<b>UMa M82</b>	<b>Galaxy I0 sp</b>	<b>VB,VL,VME(RAY)</b>
Feb 04 2005	31"	17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BROKEN,BEST TO DATE,R=E	
Dec 03 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
Apr 14 2004	31"	17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BROKEN PARTS,R=E	
<b>H79-8</b>	<b>NGC 129</b>	<b>Cas</b>	<b>Open Cluster 11.0 III 2 m</b>	<b>CL,VL,PR,LC,*9...13</b>
Sep 28 2013	36"	17mmT4	VF,EL,~40*S,LOOSLY SCATTERED,LITTLE CLUSTERING,FILLS FOV,R=F	
Aug 13 1982	12.5"	24mm	MB,BL,SCATTERED,BLENDS WITH FIELD *S	
<b>H80-8</b>	<b>NGC 1444</b>	<b>Per</b>	<b>Open Cluster 6.8 IV 1 p</b>	<b>CL OF AB30*12...14</b>
Sep 03 1980	12.5"	24mm	POOR	
Oct 03 1981	12.5"	24mm	MF,VS,SURROUNDS B DOUBLE *,APPROX 10*S,SMALL	
<b>H81-1</b>	<b>NGC 3344</b>	<b>LMi</b>	<b>Galaxy (R)SAB(r)bc</b>	<b>CB,L,GBM,*INV,2ST F</b>
Dec 03 1980	12.5"	24mm	BNUC,2F*S ON EDGE	
<b>H82-1</b>	<b>NGC 3900</b>	<b>Leo</b>	<b>Galaxy SA(r)0+</b>	<b>B,PL,VLE0,BMN</b>
Mar 03 1984	12.5"	12mm	MB,PL,ELONG,BNUC,SBM,BETWEEN 2B*S	
Jan 30 1981	12.5"	24mm	PF,PL,ELONG,FNUC,FAINT HALO	
Feb 12 1983	12.5"	16mm	MF,ML,DNUC,OVAL,BM,TRI OF *S AROUND GAL	
<b>H83-1</b>	<b>NGC 4494</b>	<b>Com</b>	<b>Galaxy E1-2</b>	<b>VB,PL,R,VSMBMN</b>
Mar 17 2018	36"	17mmT4	VB,VL,OVAL,S BRT NUC,HISB,F* OUTER EDGE,GRANULAR HISB OVAL ARMS AROUND NUC,MBM,R=E	
Feb 12 1983	12.5"	16mm	VB,VL,BNUC,R,BM	
<b>H85-8</b>	<b>NGC 1545</b>	<b>Per</b>	<b>Open Cluster 9.0 IV 2 p</b>	<b>CL,PRI,LC,ST L</b>
Sep 03 1980	12.5"	24mm		
Oct 03 1981	12.5"	24mm	MB,ML,TRI OF B*S IN CENTER,APPROX 20*S,SPREAD OUT THIN	
<b>H86-1</b>	<b>NGC 3245</b>	<b>LMi</b>	<b>Galaxy SA(r)0^:?</b>	<b>VB,PL,E0, SMBMEN</b>
Jan 24 2004	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,MOD HISB,GMBM,PAIR=3245A,R=E	
Feb 25 1982	12.5"	16mm	MB,MS,BNUC,TAPPERED,NUC DET,HISB TOWARDS MIDDLE	
Dec 03 1980	12.5"	24mm		
<b>H86-2</b>	<b>NGC 4350</b>	<b>Com</b>	<b>Galaxy SA0 sp</b>	<b>CB,VS,ME,VSBM</b>
Mar 27 1981	12.5"	24mm		
Feb 12 1983	12.5"	24mm	MB,PS,BNUC,SBM,OVAL,CLOSE PAIR/4340	
<b>H87-1</b>	<b>NGC 3486</b>	<b>LMi</b>	<b>Galaxy SAB(r)c</b>	<b>CB,CL,R,GMBM</b>
Oct 22 1982	12.5"	24mm	MF,MS,VDIF,PATCH,SBM	
Dec 03 1980	12.5"	24mm		
<b>H88-1</b>	<b>NGC 3504</b>	<b>LMi</b>	<b>Galaxy (R)SAB(s)ab</b>	<b>B,L,E,MBMN,RR,P OF 2</b>
Oct 22 1982	12.5"	16mm	MB,MS,DNUC,LOC IN BARREN AREA,OVAL,SMBM	
Dec 03 1980	12.5"	24mm		
<b>H88-8</b>	<b>NGC 1342</b>	<b>Per</b>	<b>Open Cluster 8.0 III 2 m</b>	<b>CL,VL,AB60*</b>
Sep 03 1980	12.5"	24mm	NOT SO GOOD,DOES NOT LIVE UP TO ASTRO CARD DESCRIPTION	
Oct 03 1981	12.5"	24mm	VB,VL,APPROX 20*S,DISPURSED	
<b>H89-1</b>	<b>NGC 4251</b>	<b>Com</b>	<b>Galaxy SB0? sp</b>	<b>VB,S,E,VSVMBMN,*F90S</b>
Feb 27 1982	12.5"	16mm	ELONG,BNUC,GMBM	
<b>H90-1</b>	<b>NGC 4278</b>	<b>Com</b>	<b>Galaxy E1-2</b>	<b>VB,PL,R,MBM,R,1STOF3</b>
Feb 12 1983	12.5"	16mm	MB,ML,BNUC,R,VMBM,COMP TO E = 4283	
<b>H91-1</b>	<b>NGC 4448</b>	<b>Com</b>	<b>Galaxy SB(r)ab</b>	<b>B,L,E90,SBM</b>
Feb 12 1983	12.5"	16mm	MF,MS,FNUC,SLIGHTLY ELONG,MOD HISB,SBM	
<b>H92-1</b>	<b>NGC 4559</b>	<b>Com</b>	<b>Galaxy SAB(rs)cd</b>	<b>VB,VL,ME150,GBM,3*F</b>

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<b>H92-1</b>	<b>NGC 4559</b>	<b>Com</b>	<b>Galaxy SAB(rs)cd</b>	<b>VB,VL,ME150,GBM,3*F</b>
Mar 17 2018	36"	17mmT4	VB,VL,OVAL,PATCH,NND,BROKEN PATCHES,MHISB IN ARMS,3**S TRIANGLE OUTER EDGE,R=E	
Feb 12 1983	12.5"	24mm	VB,VL,3F**S IN S EDGE,SLIGHTLY ELONG,HISB,NND	
<b>H94-1</b>	<b>NGC 3813</b>	<b>UMa</b>	<b>Galaxy SA(rs)b:</b>	<b>CB,PL,PME90,BM</b>
Mar 15 1985	12.5"	16mm	PF,PS,ELONG,EDGE ON,E-W,F**S AT BOTH TIPS,UB,NND,TAPPERED ENDS	
Feb 12 1983	12.5"	16mm	MF,PS,ELONG,F*E TIP,UB,NND,VF*W TIP SUSP	
<b>H95-1</b>	<b>NGC 4214</b>	<b>CVn</b>	<b>Galaxy IBm</b>	<b>CB,CL,IE,BIN</b>
Jul 05 1980	12.5"	24mm		
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	
<b>H96-1</b>	<b>NGC 5005</b>	<b>CVn</b>	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VME66,VSBMN</b>
Jan 28 1982	12.5"	16mm	MB,ML,BNUC,SLENDER SHAPE,DIF HALO	
<b>H97-1</b>	<b>NGC 5033</b>	<b>CVn</b>	<b>Galaxy SA(s)c</b>	<b>VB,PL,E167,SMBMVBN</b>
Jan 28 1982	12.5"	16mm	PF,PS,BNUC,F* IN NW TIP,MUCH BM	
<b>H98-1</b>	<b>NGC 5273</b>	<b>CVn</b>	<b>Galaxy SA(s)0^</b>	<b>CB,PL,R,G,PSMBM</b>
Jan 28 1982	12.5"	16mm	DIF,MF,MS,R,SMALL DIM NUC,DIF HALO,PAIR/5276	
<b>H99-1</b>	<b>NGC 5557</b>	<b>Boo</b>	<b>Galaxy E1</b>	<b>CB,S,R,VSBM*</b>
May 06 1981	12.5"	24mm	MB,ML,BNUC WITH DIM HALO	
Mar 29 2006	31"	17mmT4	VB,PL,R,LARGE BNUC,HISB,GMBM,VF* IN GAL OUTSIDE NUC,SN? 15 MAG,R=E	
<b>H99-2</b>	<b>NGC 3377</b>	<b>Leo</b>	<b>Galaxy E5-6</b>	<b>VB,CL,LE,SVMBMBN</b>
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,PAIR/3367	
Feb 25 1984	12.5"	12mm	MB,PS,PATCHY,UB IN MIDDLE,R	
<b>H100-1</b>	<b>NGC 584</b>	<b>Cet</b>	<b>Galaxy E4</b>	<b>VB,PL,R,MBM,P OF 2</b>
Sep 27 1981	12.5"	16mm	MB,PS,BNUC,VMBM,R	
Sep 10 1980	12.5"	24mm		
Sep 07 1980	12.5"	24mm	PAIR/596,GREAT!!	
<b>H101-1</b>	<b>NGC 779</b>	<b>Cet</b>	<b>Galaxy SAB(r)b</b>	<b>CB,L,ME162,MBM</b>
Sep 27 1981	12.5"	16mm	MB,ML,VERY EDGE ON,FNUC,CENTRAL BULGE,DUST PATCHES,KNTY STR SUSP,GBM	
Sep 18 1980	12.5"	24mm		
Sep 07 1980	12.5"	24mm	ELONG	
<b>H101-2</b>	<b>NGC 3489</b>	<b>Leo</b>	<b>Galaxy SAB(rs)0+</b>	<b>VB,PL,LE80,SMBMN</b>
Jan 30 1981	12.5"	24mm	VB,PL,BNUC,PAIR/3485	
Feb 25 1984	12.5"	12mm	MB,PS,BNUC,F* OFF ON EDGE,BM	
<b>H102-1</b>	<b>NGC 1022</b>	<b>Cet</b>	<b>Galaxy (R')SB(s)a</b>	<b>CB,PL,R,MBM,*11NF 2'</b>
Sep 27 1981	12.5"	16mm	MB,ML,NUC SUSP,FARMS,F*W 1 GAL DIA,BAR SUSP,FAINT CIRCULAR ARMS SUSP,SNS	
Sep 07 1980	12.5"	24mm	FAIR AND FAINT	
<b>H103-1</b>	<b>NGC 6934</b>	<b>Del</b>	<b>Globular</b>	<b>GCL,B,L,R,RRR,*16...</b>
Jun 20 1980	12.5"	24mm		
Jun 18 1980	12.5"	24mm		
Jun 17 1980	12.5"	24mm		
Jul 31 2002	12.5"	12mm	SAME	
Jul 30 1981	12.5"	16mm	DNUC,GMBM,SOFT HALO OF **S RESOLVED,R	
Jul 11 1980	12.5"	24mm		
Jul 08 1983	12.5"	12mm	MB,MS,BNUC,B* TO W,RESOLVED OUTER **S,GBM	
Aug 20 2003	31"	25mm	VB,VL,RESOLVED TO CORE,HUNDRED'S OF **S,MANY **S DETECTED IN CORE,R=E	
<b>H104-1</b>	<b>NGC 7606</b>	<b>Aqr</b>	<b>Galaxy SA(s)b</b>	<b>PF,CL,PME0</b>
Sep 09 1980	12.5"	32mm	BRIGHT,LARGE	
Jul 10 1981	12.5"	16mm	BRT PART N SIDE,HALO VIS,RESEMBLES M104,MB,ML,EDGE ON,FAINT ARMS	

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<b>H104-1</b>	<b>NGC 7606</b>	<b>Aqr</b>	<b>Galaxy SA(s)b</b>	<b>PF,CL,PME0</b>
Jul 10 1981	12.5" 16mm	BRT PART N SIDE,HALO VIS,RESEMBLES M104,MB,ML,EDGE ON,FAINT ARMS		
<b>H105-1</b>	<b>NGC 720</b>	<b>Cet</b>	<b>Galaxy E5</b>	<b>CB,PL,LE,PSMBM</b>
Sep 27 1981	12.5" 16mm	MB,MS,BNUC,GBM		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
<b>H107-1</b>	<b>NGC 1407</b>	<b>Eri</b>	<b>Galaxy E0</b>	<b>VB,L,R,SVMBMN</b>
Sep 09 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm	PAIR/1400		
Oct 24 1981	12.5" 12mm	MB,ML,B NUC,R,PAIR/1400		
<b>H110-1</b>	<b>NGC 7723</b>	<b>Aqr</b>	<b>Galaxy SB(r)b</b>	<b>CB,CL,E,GMBM,R</b>
Sep 09 1980	12.5" 24mm			
Jul 10 1981	12.5" 16mm	DIF,MBM,FNUC,MB,ML,FAINT ARMS		
<b>H111-1</b>	<b>NGC 7727</b>	<b>Aqr</b>	<b>Galaxy SAB(s)a pec</b>	<b>PB,PL,IR,MBM</b>
Sep 09 1980	12.5" 24mm	BNUC,SPIRAL ARM STR DET		
Oct 07 2010	31" 17mmT4	PB,PL,OVAL,LARGE BNUC,GRANULAR NUC,HISB MIDDLE,GBM,R=G		
Jul 10 1981	12.5" 16mm	MB,ML,VMBM,DIF HALO AROUND GAL		
<b>H112-1</b>	<b>NGC 772</b>	<b>Ari</b>	<b>Galaxy SA(s)b</b>	<b>B,CL,R,GBM,R</b>
Sep 24 1981	12.5" 16mm	PB,PL,SMBM,ELONG,* E SIDE,FAINT 15TH MAG COMP W/770 1 GAL DIA,BNUC,FARMS		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm	NICE!!,VL,PF,SIMILAR TO M33		
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
Oct 23 1982	12.5" 16mm	SAME		
<b>H113-2</b>	<b>NGC 4419</b>	<b>Com</b>	<b>Galaxy SB(s)a sp</b>	<b>B,PME135,SBM</b>
Mar 27 1981	12.5" 24mm			
Feb 12 1983	12.5" 16mm	MB,PS,EDGE ON,FNUC,SBM,TAPPED		
<b>H114-1</b>	<b>NGC 2964</b>	<b>Leo</b>	<b>Galaxy SAB(r)bc:</b>	<b>B,VL,LE,VGBM,SP OF 3</b>
Jan 30 1981	12.5" 24mm	DIF,VF,VS,FAINT NUC AND HALO		
Jan 29 2014	36" 17mmT4	VB,VL,OVAL,BNUC,HISB,DUST,ARMS DET,PATCHY AREAS,R=E		
Feb 25 1984	12.5" 12mm	DIF,MF,MS,PATCHY,OVAL,SBM,NO *S,PAIR/2968		
Dec 03 1980	12.5" 24mm			
<b>H114-2</b>	<b>NGC 4473</b>	<b>Com</b>	<b>Galaxy E5</b>	<b>PB</b>
May 01 1981	12.5" 24mm	PB,PL,BNUC,FARM,PAIR/4461		
Mar 27 1981	12.5" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,HISB MIDDLE,GRANULAR HALO,GMBM,R=E		
Jun 10 1980	6" 24mm			
Feb 12 1983	12.5" 16mm	MF,PS,DNUC,R,BM,PAIR/4477		
<b>H115-2</b>	<b>NGC 4477</b>	<b>Com</b>	<b>Galaxy SB(s)0:?</b>	<b>PB,CL</b>
Mar 27 1981	12.5" 24mm			
Mar 16 2010	31" 17mmT4	VB,VL,ELONG,LARGE BNUC,GRAD MBM,HISB MIDDLE,PAIR=4479,R=E		
Jun 10 1980	6" 24mm			
Feb 12 1983	12.5" 16mm	MF,PS,BNUC,R,BM,CLOSE COMP 4479,PAIR/4473		
<b>H116-1</b>	<b>NGC 3395</b>	<b>LMI</b>	<b>Galaxy SAB(rs)cd pec:</b>	<b>CB,PS,ILE,1ST OF 2</b>
Oct 22 1982	12.5" 24mm	DIF,VF,MS,ELONG,2 PARTS OR INTERACTING GAL,N PART STELL NUC OR *		
Jan 08 2003	12.5" 9mmT6	MB,PL,BNUC,OVAL,SMALL BRT NUC,HISB,COMP=3396		
Feb 15 2004	31" 17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,GMBM,INTERACTING 3396,R=E		

## Herschel 400 (I) Observations

<b>H116-1</b>	<b>NGC 3395</b>	<b>LMi</b>	<b>Galaxy SAB(rs)cd pec:</b>	<b>CB,PS,ILE,1ST OF 2</b>
Feb 15 2004	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,GMBM,INTERACTING	3396,R=E
Dec 03 1980	12.5"	24mm	PAIR/3396	
<b>H120-2</b>	<b>NGC 4548</b>	<b>Com M91</b>	<b>Galaxy SB(rs)b</b>	<b>B,L,LE,LBM</b>
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
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 17 2018	36"	17mmT4	VB,EL,ELONG,BNUC,MHISB,L SOFT NUC,BGM,FT HALO AROUND NUC,ARMS NOT DET,R=GE	
Mar 02 1984	10"	20mm	SAME	
Jun 10 1980	6"	24mm		
Feb 12 1983	12.5"	24mm	MB,PL,BNUC,R,LARGE NUC,DIF HALO	
Apr 11 2015	36"	17mmT4	PB,PL,S SOFT GRAD BM,FT HALO,BRTER PATCH-BAR DET,R=G	
<b>H121-1</b>	<b>NGC 4030</b>	<b>Vir</b>	<b>Galaxy SA(s)bc</b>	<b>CB,L,VLE,PSMBM,BSTNR</b>
Apr 25 1981	12.5"	24mm	VB,VL,BNUC,BRT HALO	
<b>H124-2</b>	<b>NGC 4478</b>	<b>Vir</b>	<b>Galaxy E2</b>	<b>PB,S,R,PSBM,2ND OF 3</b>
May 01 1981	12.5"	24mm	PF,PS,ELONG,FNUC,FARM,PAIR/4476/M87	
<b>H126-1</b>	<b>NGC 5746</b>	<b>Vir</b>	<b>Galaxy SAB(rs)b? sp</b>	<b>B,L,VME170,BMBN</b>
Jun 11 1983	12.5"	20mm	MB,PL,EDGE ON,DUST LANE SUSP,BRT NUC BULGE,TAPPERED ENDS,MINATURE 4565	
<b>H126-2</b>	<b>NGC 4654</b>	<b>Vir</b>	<b>Galaxy SAB(rs)cd</b>	<b>F,VL,PME,(D),3*NR</b>
Mar 27 1982	12.5"	12mm	DIF,MB,PL,2F*S TO N,B* TO W,STELL NUC,OVAL,UB,MOD HISB	
<b>H128-1</b>	<b>NGC 5846</b>	<b>Vir</b>	<b>Galaxy E0-1</b>	<b>VB,PL,R,PSBMN,F*INVS</b>
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	
Mar 16 2010	31"	17mmT4	VB,VL,LARGE BNUC,GRAD BM,GRANULAR HALO,F* OFF SIDE,VERY CLOSE	COMP=5846A,R=G
Jun 11 1983	12.5"	20mm	MB,PL,FNUC,F*W 1 GAL DIA,COMP TO E,R,SBM,SEVERAL FIELD *S	
<b>H128-2</b>	<b>NGC 4689</b>	<b>Com</b>	<b>Galaxy SA(rs)bc</b>	<b>PB,VL,E,VGLBM,R</b>
Mar 27 1982	12.5"	12mm	EDIF,MF,PL,R,2F*S N,NND,UB,SOME STR SUSP	
<b>H129-1</b>	<b>NGC 4699</b>	<b>Vir</b>	<b>Galaxy SAB(rs)b</b>	<b>VB,R,VMBMRN,R</b>
Mar 27 1982	12.5"	12mm	MB,MS,BNUC,R,SBM,F*S SEVERAL GAL DIA	
<b>H130-1</b>	<b>NGC 4958</b>	<b>Vir</b>	<b>Galaxy SB(r)0? sp</b>	<b>VB,PS,E,BMBN</b>
Feb 12 1983	12.5"	16mm	MF,PS,BNUC,F* OFF TO W,TAPPERED,SBM	
<b>H134-1</b>	<b>NGC 4781</b>	<b>Vir</b>	<b>Galaxy SB(rs)d</b>	<b>CB,VL,ME</b>
Feb 12 1983	12.5"	24mm	DIF,MF,ML,3 OR 4 F*S GOING OFF TO THE W,NND,UB,OVAL	
<b>H137-1</b>	<b>NGC 2859</b>	<b>LMi</b>	<b>Galaxy (R)SB(r)0+</b>	<b>VB,PL,R,SMBM</b>
Feb 25 1984	12.5"	16mm	MB,ML,BNUC,DIM HALO,STELL BRT NUC,R,GMBM,F*NE SEVERAL GAL DIA	
Dec 03 1980	12.5"	24mm		
<b>H139-1</b>	<b>NGC 4303</b>	<b>Vir M61</b>	<b>Galaxy SAB(rs)bc</b>	<b>VB,VL,VSBM*,BIN</b>
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 08 2010	31"	17mmT4	PB,PL,SMALL BNUC,MOD HISB MIDDLE,FACE ON,F* IN OUTTER ARM,SPIRAL STR	DET,DUST,PATCHY AREAS IN ARMS,FAINT BAR DET,R=EE
Jun 10 1980	6"	24mm		
Feb 12 1983	12.5"	24mm	PB,VL,STELL NUC,ARMS DET,FACE ON,KNTS DET	
Apr 25 1981	12.5"	24mm	DIF,VB,VL,DNUC,FARM	
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
<b>H139-2</b>	<b>NGC 4261</b>	<b>Vir</b>	<b>Galaxy E2-3</b>	<b>PB,PS,R,GBM</b>

## Herschel 400 (I) Observations

<b>H139-2</b>	<b>NGC 4261</b>	<b>Vir</b>	<b>Galaxy E2-3</b>	<b>PB,PS,R,GBM</b>
Mar 08 2010	31" 17mmT4	PB,ML,OVAL,LARGE BNUC,GRANULAR HALO,HISB MIDDLE,PAIRS=NGC/PGC'S,R=G		
Apr 26 2003	12.5" 9mmT6	VB,PL,R,BNUC,HISB MIDDLE,VMBM,LARGE BRT NUC,PAIR/4264/4257,R=E		
Apr 25 1981	12.5" 24mm	DIF,PF,PS,FNUC,DIM HALO,PAIR/4260		
<b>H142-1</b>	<b>NGC 4664</b>	<b>Vir</b>	<b>Galaxy SB(s)0/a</b>	<b>PB,2S*IN M,(=4665)</b>
Mar 27 1982	12.5" 12mm	MB,MS,BNUC,F* TOWARDS S TIP,B* TO W,VMBM,OVAL		
<b>H143-1</b>	<b>NGC 4900</b>	<b>Vir</b>	<b>Galaxy SB(rs)c</b>	<b>CB,CE,*10ATT POS135</b>
Feb 12 1983	12.5" 16mm	MB,ML,F* IN E EDGE,MOD HISB,UB,OVAL		
<b>H144-1</b>	<b>NGC 5566</b>	<b>Vir</b>	<b>Galaxy SB(r)ab</b>	<b>B,PL,R,PSBM,R,*F1.5'</b>
Jun 11 1983	12.5" 20mm	MB,PL,ELONG,BNUC,B*SW 1 GAL DIS.LARGE BRT NUC,HISB TOWARDS MID,PAIR/5576		
Apr 26 2003	12.5" 9mmT6	VB,PL,R,BNUC,VERY HISB,ARMS DET,LARGE NUC,VMBM,PAIR/5560/5569,R=E		
<b>H146-1</b>	<b>NGC 5576</b>	<b>Vir</b>	<b>Galaxy E3</b>	<b>B,S,R,VSMBM,F OF 2</b>
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		
<b>H149-1</b>	<b>NGC 6342</b>	<b>Oph</b>	<b>Globular</b>	<b>CB,PS,LE,ER</b>
Jun 18 1980	12.5" 24mm	VS,LOOKS LIKE NEB		
Jun 10 1980	6" 24mm	VF,HARD TO SEE		
Jun 04 1981	12.5" 24mm	DIF,PF,PS		
Jul 21 1984	12.5" 12mm	VF,VS,VF* ON S EDGE,PATCH-UB,NO I'S RESOLVED		
<b>H151-1</b>	<b>NGC 524</b>	<b>Psc</b>	<b>Galaxy SA(rs)0+</b>	<b>VB,PL,MBM,4S*NR</b>
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		
Sep 07 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
<b>H153-1</b>	<b>NGC 908</b>	<b>Cet</b>	<b>Galaxy SA(s)c</b>	<b>CB,VL,E</b>
Sep 27 1981	12.5" 16mm	DIF,HISB,PB,PL,EF* COMES AND GOES W ARM,NND,OVAL,BETTER IN 24MM,KNTS & DUST SUSP		
Sep 09 1980	12.5" 16mm	SIZE EASILY DET		
<b>H156-1</b>	<b>NGC 1023</b>	<b>Per</b>	<b>Galaxy SB(rs)0-</b>	<b>VB,VL,VME,VVMBM</b>
Sep 07 1980	12.5" 24mm			
Sep 03 1980	12.5" 24mm			
Oct 03 1981	12.5" 12mm	MB,ML,ELONG,F* OR PART OF GAL W SIDE,LOOKS LIKE SB GAL,VMBM,BRT NUC DET		
Jun 20 1980	12.5" 24mm	GOOD LOOKING GAL		
Jul 24 1980	12.5" 24mm	BNUC,GREAT!!!		
Jul 11 1980	12.5" 24mm			
Feb 04 2005	31" 17mmT4	VF,EL,ELONG,LARGE BNUC,FARMS,GMBM,SEVERAL *S IN GAL,COMP=1023A,R=E		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
Aug 17 1982	12.5" 16mm	EDGE ON,MF,ML,LINE OF 3 *S OFF TO E,VMBM,DIF ARMS		
<b>H156-2</b>	<b>NGC 4442</b>	<b>Vir</b>	<b>Galaxy SB(s)0^</b>	<b>VB,PL,R,SMBM</b>
May 01 1981	12.5" 24mm	PB,PS,BNUC,FARM		
<b>H157-1</b>	<b>NGC 672</b>	<b>Tri</b>	<b>Galaxy SB(s)cd</b>	<b>F,PL,ME80</b>
Sep 23 1981	12.5" 16mm	DIF,MB,MS,DARM,2*S OPPOSITE SIDE,UB,NND,PAIR/670		
Sep 18 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Jul 24 1980	12.5" 32mm	EL,GREAT!!		
Dec 04 2004	31" 17mmT4	PB,EL,EDGE ON,SHISB,VF* OFF NUC,BRT BAR THROUGHOUT,DUST & PATCH AREAS DET,R=E		
Aug 25 1982	12.5" 16mm	SAME		



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<b>H157-1</b>	<b>NGC 672</b>	<b>Tri</b>	<b>Galaxy SB(s)cd</b>	<b>F,PL,ME80</b>
Aug 25 1982	12.5" 16mm	SAME		
Aug 22 1980	12.5" 24mm			
<b>H159-1</b>	<b>NGC 278</b>	<b>Cas</b>	<b>Galaxy SAB(rs)b</b>	<b>CB,PL,R,2*10NR</b>
Sep 28 2013	36" 17mmT4	VB,VL,R,SMALL	BNUC,SMBM,MOD HISB,SOME GRANULAR AROUND NUC,NICE FOV,R=GE	
Sep 18 1980	12.5" 20mm	GREAT		
Jun 18 1980	12.5" 24mm			
Jul 31 1981	12.5" 12mm	GMBM,DIF	HALO SEEN,SOMEWHAT OVAL,HISB	
Jul 24 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	GREAT!!!		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
<b>H160-1</b>	<b>NGC 4546</b>	<b>Vir</b>	<b>Galaxy SB(s)0-:</b>	<b>VB,CL,PME78,VSMBMM</b>
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,F*E	SEVERAL GAL DIA,TAPPERED ENDS	
<b>H160-2</b>	<b>NGC 3686</b>	<b>Leo</b>	<b>Galaxy SB(s)bc</b>	<b>PB,L,VLE,VGBM,R</b>
Mar 03 1984	12.5" 12mm	DIF,MF,ML,F* IN S ARM,BRT * TO N,UB,OVAL,NND,VF*SW	SIDE,SEVERAL COMP	
Jan 30 1981	12.5" 24mm	DIF,PF,PL,DIM HALO,SEVERAL COMP		
<b>H161-1</b>	<b>NGC 4459</b>	<b>Com</b>	<b>Galaxy SA(r)0+</b>	<b>PB,PL,IR,BM,R,*8SF2'</b>
May 09 2010	31" 17mmT4	EB,VL,R,LBNUC,GRANULAR HALO,SUDDENLY MBM,HISB,R=E		
Mar 27 1981	12.5" 24mm			
Jun 10 1980	6" 24mm			
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,SMBM,STELL NUC,CLOSE TO B*		
<b>H162-1</b>	<b>NGC 4866</b>	<b>Vir</b>	<b>Galaxy SA(r)0+: sp</b>	<b>B,PL,ME90,SBMM,S*INV</b>
Feb 12 1983	12.5" 16mm	DIF,MF,PS,EDGE ON,FNUC,F* IN W TIP,SMALL STELL NUC,SLIGHTLY TAPPERED		
<b>H163-1</b>	<b>NGC 3115</b>	<b>Sex</b>	<b>Galaxy S0- sp</b>	<b>VB,L,VME46,VGSMBMMEN</b>
Mar 27 1982	12.5" 16mm	MB,ML,EDGE ON,BNUC,F HALO,F*S BORDER,F* FARTHER SW,CENTRAL BULGE		
<b>H164-1</b>	<b>NGC 3294</b>	<b>LMi</b>	<b>Galaxy SA(s)c</b>	<b>CB,L,ME135,GLBM</b>
Oct 22 1982	12.5" 16mm	DIF,MF,ML,ELONG,UB,SLIGHTLY ELONG,NND		
Jan 24 2004	31" 17mmT4	VB,VL,ELONG,EDGE ON,PATCH,UB,NND,R=G		
Feb 15 2004	31" 17mmT4	VB,EL,OVAL,PATCH,UB,NND,PATCHY AREAS DET,KNOTS AND DUST DET,R=E		
Dec 03 1980	12.5" 24mm			
<b>H165-1</b>	<b>NGC 4151</b>	<b>CVn</b>	<b>Galaxy (R')SAB(rs)ab:</b>	<b>VB,S,R,VSMBMMB,P OF2</b>
Jan 26 1982	12.5" 16mm	DIF,MB,PS,BNUC,*NW SIDE,VMBM,R HALO AROUND NUC		
Feb 25 2004	31" 17mmT4	VB,VL,OVAL,SMALL VERY BNUC,2*S IN ARMS,HISB MIDDLE,GMBM,LARGE AREA OF ARMS,R=E		
<b>H167-1</b>	<b>NGC 2782</b>	<b>Lyn</b>	<b>Galaxy SAB(rs)a pec</b>	<b>CB,R,MBMMB</b>
Oct 16 1982	12.5" 24mm	DIF,MF,MS,DNUC,2F*S OFF TO S,SBM,STELL NUC,16MM-SAME		
<b>H168-1</b>	<b>NGC 3184</b>	<b>UMa</b>	<b>Galaxy SBc</b>	<b>PB,VL,R,VGBM</b>
Oct 22 1982	12.5" 16mm	DIF,MF,ML,R,PATCHY,B* IN N PART,UB,KNTY STR SUSP,NND		
Mar 15 1985	12.5" 16mm	SAME		
<b>H172-1</b>	<b>NGC 3432</b>	<b>LMi</b>	<b>Galaxy SB(s)m sp</b>	<b>PB,PL,VME40,**NR SP</b>
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		
Dec 03 1980	12.5" 24mm			
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		
<b>H173-1</b>	<b>NGC 3941</b>	<b>UMa</b>	<b>Galaxy SB(s)0^</b>	<b>VB,PL,R,SMBM*9</b>

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<b>H173-1</b>	<b>NGC 3941</b>	<b>UMa</b>	<b>Galaxy SB(s)0<sup>^</sup></b>	<b>VB,PL,R,SMBM*9</b>
Mar 15 1985	12.5" 12mm	PB,ML,BNUC,R,BM,HISB		
Feb 12 1983	12.5" 16mm	PB,MS,ELONG,VERY BRIGHT NUC,LOOKS LIKE AN E6 GAL		
<b>H175-1</b>	<b>NGC 4203</b>	<b>Com</b>	<b>Galaxy SAB0-:</b>	<b>VB,S,R,PSMBM</b>
Feb 27 1982	12.5" 16mm	MB,PS,BNUC,R,GBM		
<b>H176-1</b>	<b>NGC 4656</b>	<b>CVn</b>	<b>Galaxy SB(s)m pec</b>	<b>PB,L,VME34,SP OF 2</b>
Jan 28 1982	12.5" 16mm	MF,PL,EDGE ON,**S AROUND N TIP,S ARM SLIGHTLY BULKIER AND BIGGER,MOD HISB		
<b>H177-2</b>	<b>NGC 5600</b>	<b>Boo</b>	<b>Galaxy Sc pec</b>	<b>PB,PS,GBM</b>
May 06 1981	12.5" 24mm	DIF,MB,PS,NND,BRT HALO		
<b>H178-1</b>	<b>NGC 4618</b>	<b>CVn</b>	<b>Galaxy SB(rs)m</b>	<b>B,L,E,MBM,CVDBRANCHN</b>
Mar 27 1981	12.5" 24mm			
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		
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		
<b>H186-1</b>	<b>NGC 5195</b>	<b>CVn</b>	<b>Galaxy I0 pec</b>	<b>B,PS,LE,VGBM,INV-M51</b>
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		
Jan 28 1982	12.5" 24mm	MB,ML,BNUC,OVAL,BM,INTERACTING WITH M51		
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		
Apr 16 1980	6" 24mm			
<b>H188-1</b>	<b>NGC 5689</b>	<b>Boo</b>	<b>Galaxy SB(s)0/a:</b>	<b>CB,PL,E87,PSMBM</b>
May 06 1981	12.5" 24mm	PB,VS,BNUC		
<b>H189-1</b>	<b>NGC 5676</b>	<b>Boo</b>	<b>Galaxy SA(rs)bc</b>	<b>B,L,E45,PGBM,R</b>
May 06 1981	12.5" 24mm	VB,VL,BNUC,BRT HALO		
Jul 14 1980	12.5" 24mm	GET B* OUT OF FOV TO SEE		
<b>H192-1</b>	<b>NGC 7008</b>	<b>Cyg</b>	<b>Planetary Neb 3</b>	<b>CB,L,E45,R,**ATT</b>
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		
Aug 11 1982	12.5" 16mm	MF,PL,BG COLOR,NW PART BRT,PATCHY-R,CENTRAL 14* DET,LOC E OF A FEW **S		
<b>H193-1</b>	<b>NGC 650</b>	<b>Per M76</b>	<b>Planetary Neb 3+6</b>	<b>VB,P OF DNEB</b>
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		
Oct 03 1981	12.5" 24mm	BLUE GREEN,MB,PS,S PART BRTER,HISB,2 PARTS DET,DARK PATCH		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	W/OIII. VB,PL,HOUR GLASS SHAPE,BAR,TWO HALVES,MESSIER MARATHON 2004,R=E		
Mar 02 1984	10" 20mm	SAME		
Jul 24 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Dec 06 2002	12.5" 9mmT6	PB,PL,2 LOBES EASILY DETECTED,MHISB,BRT REGION IN ONE LOBE. M76		
Aug 25 1982	12.5" 16mm	HOUR GLASS SHAPE,WHIPHS OF NEB AROUND TIPS,SAME AS BEFORE		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
<b>H194-1</b>	<b>NGC 3675</b>	<b>UMa</b>	<b>Galaxy SA(s)b</b>	<b>VB,CL,VME0,VSMBMN</b>
Oct 22 1982	12.5" 16mm	MB,ML,ELONG,BNUC,F* IN N TIP,BIG BRT NUC,GMBM		
Mar 15 1985	12.5" 16mm	SAME,PB,ML,BNUC,F*N TIP,CIGAR SHAPE,MOD HISB,BM		
<b>H195-1</b>	<b>NGC 4111</b>	<b>CVn</b>	<b>Galaxy SA(r)0+: sp</b>	<b>VB,PS,ME151</b>
Feb 25 2004	31" 17mmT4	VB,PL,EDGE ON,BNUC,HISB MIDDLE,CENTRAL BULGE,TAPPERED ENDS,PAIR=4109,R=E		
Feb 12 1983	12.5" 24mm	PB,VS,EDGE ON,BNUC,B* CLOSE BY,F* BET GAL AND B*,TAPPERED ENDS		

## Herschel 400 (I) Observations

<b>H195-1</b>	<b>NGC 4111</b>	<b>CVn</b>	<b>Galaxy SA(r)0+ : sp</b>	<b>VB,PS,ME151</b>
Feb 12 1983	12.5" 24mm		PB,VS,EDGE ON,BNUC,B* CLOSE BY,F* BET GAL AND B*,TAPPED ENDS	
<b>H195-2</b>	<b>NGC 6287</b>	<b>Oph</b>	<b>Globular</b>	<b>GCL,CB,L,R,GPMCM,RRR</b>
Jun 18 1980	12.5" 24mm		EF,NND,LOC IN BARREN * FIELD	
Jun 04 1981	12.5" 24mm		DIF,PF,MS	
Jul 21 1984	12.5" 16mm		VDIF,VF,MS,OVAL,UB,NO *S RESOLVED	
<b>H196-1</b>	<b>NGC 4138</b>	<b>CVn</b>	<b>Galaxy SA(r)0+</b>	<b>B,PL,E,VGBM,*NP</b>
Mar 22 2004	12.5" 12mmT4		PB,ML,ELONG,LARGE BNUC,SHISB,GMBM,HISB MIDDLE,R=E	
Feb 25 2004	31" 17mmT4		VB,PL,OVAL,SMALL BNUC,SHISB,SPR STR SUSP,HISB MIDDLE,GMBM,R=E	
<b>H197-1</b>	<b>NGC 4485</b>	<b>CVn</b>	<b>Galaxy IB(s)m pec</b>	<b>B,PS,IR,NP OF 2</b>
Mar 27 1981	12.5" 24mm			
Jan 28 1982	12.5" 16mm		EDIF,PF,PS,EDGE ON,UB,INTERACTING WITH 4490	
<b>H198-1</b>	<b>NGC 4490</b>	<b>CVn</b>	<b>Galaxy SB(s)d pec</b>	<b>VB,VL,ME130,R,SF OF2</b>
Oct 31 1980	12.5" 24mm			
Mar 27 1981	12.5" 24mm			
Jan 28 1982	12.5" 16mm		DIF,PB,PL,ELONG,BNUC,GBM,INTERACTING WITH 4485,SN DISCOVERED 8/10/82	
<b>H199-1</b>	<b>NGC 3198</b>	<b>UMa</b>	<b>Galaxy SB(rs)c</b>	<b>PB,VL,ME45,VGBM</b>
Oct 22 1982	12.5" 16mm		DIF,MF,PL,EDGE ON,F*NW EDGE,UB,NND,TAPPED TOWARDS ENDS	
Mar 15 1985	12.5" 16mm		SAME	
Dec 03 1980	12.5" 24mm			
<b>H199-2</b>	<b>NGC 6517</b>	<b>Oph</b>	<b>Globular</b>	<b>PB,PL,R,RR</b>
Jun 04 1981	12.5" 24mm		DIF,PF,PS	
<b>H200-1</b>	<b>NGC 2683</b>	<b>Lyn</b>	<b>Galaxy SA(rs)b</b>	<b>VB,VL,VME39,GMBM</b>
Oct 16 1982	12.5" 16mm		MB,ML,EDGE ON,FNUC,F* IN N TIP,B* OFF TO E,DUST LANES SUSP,TAPPED ENDS,HISB	
<b>H201-1</b>	<b>NGC 3877</b>	<b>UMa</b>	<b>Galaxy SA(s)c:</b>	<b>B,L,ME37</b>
Mar 15 1985	12.5" 16mm		SAME,PB,ML	
Feb 12 1983	12.5" 16mm		MB,PL,EDGE ON,KNTS DET,DUST LANES	
<b>H202-1</b>	<b>NGC 3949</b>	<b>UMa</b>	<b>Galaxy SA(s)bc:</b>	<b>CB,PL,PME,VGBM</b>
Mar 15 1985	12.5" 12mm		MB,ML,RECT SHAPE,UB,MOD HISB,NO *S	
Feb 12 1983	12.5" 16mm		MF,PL,MOD HISB,OVAL,STELL NUC,KNTS SUSP,FACE ON	
<b>H203-1</b>	<b>NGC 3938</b>	<b>UMa</b>	<b>Galaxy SA(s)c</b>	<b>B,VL,R,BMPBN,ER</b>
Mar 15 1985	12.5" 16mm		MF,PL,LARGE OVAL,FACE ON,SBM,SOME KNTY STR SUSP,NO *S	
Feb 12 1983	12.5" 16mm		MB,VL,FACE ON,R,KNTS DET	
<b>H205-1</b>	<b>NGC 2841</b>	<b>UMa</b>	<b>Galaxy SA(r)b:</b>	<b>VB,L,VME151,VSMBM*10</b>
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	
Mar 15 1985	12.5" 12mm		SAME,ALL *S PRESENT	
Dec 03 1980	12.5" 24mm			
Apr 14 2004	31" 17mmT4		VB,EL,ELONG,LARGE BNUC,HISB,LARGE AREA OF ARMS,DUST SUSP,* IN TIP,R=E	
<b>H206-1</b>	<b>NGC 4088</b>	<b>UMa</b>	<b>Galaxy SAB(rs)bc</b>	<b>B,CL,E55,LBM</b>
Mar 06 2003	12.5" 9mmT6		MB,EL,OVAL,PATCH,UB,NND,SOMEWHAT HISB,PAIR=4085,R=E	
Feb 12 1983	12.5" 24mm		DIF,PB,PL,ELONG,HISB,NND,UB,W SIDE WIDER THAN E,PAIR/4085	
<b>H207-2</b>	<b>NGC 7217</b>	<b>Peg</b>	<b>Galaxy (R)SA(r)ab</b>	<b>B,PL,GBM,ER</b>
Sep 21 1984	12.5" 12mm		PB,PL,BNUC,R,VMBM,LARGE SOFT NUC	
Sep 14 2012	36" 17mmT4		PB,PL,OVAL,R,LARGE BNUC,HISB,GMBM,F* OFF SIDE,R=G	
Sep 10 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			

## Herschel 400 (I) Observations

<b>H207-2</b>	<b>NGC 7217</b>	<b>Peg</b>	<b>Galaxy (R)SA(r)ab</b>	<b>B,PL,GBM,ER</b>
Jul 12 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 07 1981	12.5" 24mm	MB,PB,ELONG,DIM NUC,FAINT HALO		
Aug 25 1982	12.5" 16mm	MB,PL,R,VMBM		
<b>H210-1</b>	<b>NGC 4346</b>	<b>CVn</b>	<b>Galaxy S0 sp</b>	<b>VF,S,ME100,VSMBMBN</b>
Mar 27 1981	12.5" 24mm			
Jan 26 1982	12.5" 16mm	DIF,MF,VS,DIM NUC,OVAL,VMBM		
<b>H211-1</b>	<b>NGC 4800</b>	<b>CVn</b>	<b>Galaxy SA(rs)b</b>	<b>PB,CS,R,PSBM,*14P</b>
Jan 28 1982	12.5" 16mm	DIF,MF,PS,FNUC,* ON W SIDE,OVAL,MOD BM		
<b>H213-1</b>	<b>NGC 4449</b>	<b>CVn</b>	<b>Galaxy IBm</b>	<b>VB,CL,ME,DORBIFID,*F</b>
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		
<b>H214-1</b>	<b>NGC 5474</b>	<b>UMa</b>	<b>Galaxy S(c)</b>	<b>PB,L,BM</b>
Mar 27 1981	12.5" 24mm			
Mar 06 2003	12.5" 9mmT6	PF,PL,R,PATCH,NND,PATCHY,F* IN GAL DET,R=G		
Jun 11 1983	12.5" 20mm	DIF,MB,PL,FNUC,F*NW 1 GAL DIA,OVAL,SMALL BRT NUC,SOUTH OF M101		
<b>H215-1</b>	<b>NGC 5866</b>	<b>Dra M102</b>	<b>Galaxy SA0+ sp</b>	<b>VB,CL,PME146,GBM</b>
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Jun 20 1980	12.5" 24mm			
Jul 22 1981	12.5" 16mm	VB,ML,ELONG,BNUC,BRT HALO AROUND NUC		
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 09 1983	12.5" 12mm	MB,ML,BNUC,2F**S ON BOTH SIDES,LARGE BRT NUC,TAPPERED ENDS		
Apr 23 2003	12.5" 9mmT6	EB,,VL,OVAL,BNUC,HISB,AWSOME,BEAUTIFUL,TAPPERED ENDS,LARGE NUC AREA,GMBM,R=E		
<b>H216-1</b>	<b>NGC 2787</b>	<b>UMa</b>	<b>Galaxy SB(r)0+</b>	<b>B,PL,LE90,MBM,R,*INV</b>
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		
Mar 26 2003	12.5" 9mmT6	PB,ML,R,MHISB,FACE ON,F* IN GAL ARMS,GBM,SPR STR SUSP,R=E		
Mar 15 1985	12.5" 12mm	SAME,F* IN E SIDE NOT DET		
<b>H217-1</b>	<b>NGC 1579</b>	<b>Per</b>	<b>Nebula R</b>	<b>PB,VL,IR,MBM,*8 2'NF</b>
Sep 27 2005	31" 17mmT4	VB,VL,PATCH,UB,MOD HISB,EM NEB,PATCHY,BRT PATCHES DET,IRR IN SHAPE,R=G		
Aug 10 2002	12.5" 16mm	PB,PL,BRT NEBULA,MOD HISB,NO **S,UB		
Aug 10 2002	12.5" 9mmT6	PATCH,UB		
<b>H218-1</b>	<b>NGC 2419</b>	<b>Lyn</b>	<b>Globular</b>	<b>PB,PL,LE90,VGBM,*4'F</b>
Oct 16 1982	12.5" 16mm	MF,PL,R,UB,SBM,2 B**S POINT TO IT,COUPLE OF F**S SCATTERED AROUND OBJECT		
<b>H219-1</b>	<b>NGC 3665</b>	<b>Leo</b>	<b>Galaxy SA(s)0^</b>	<b>CB,CL,IR,PGMBM</b>
Oct 22 1982	12.5" 16mm	MB,ML,DNUC,OVAL,MOD HISB TOWARDS CENTER,LARGE NUC AREA		
Mar 15 1985	12.5" 16mm	MF,MS,FNUC,SMALL BRT NUC,F* TO N,MOD HISB,LARGE NUC REGION		
<b>H221-1</b>	<b>NGC 3718</b>	<b>UMa</b>	<b>Galaxy SB(s)a pec</b>	<b>PB,VL,R,VGLBM</b>
Oct 22 1982	12.5" 24mm	MB,ML,2F**S IN S PART,OVAL,NND,PAIR/3729		
Mar 15 1985	12.5" 16mm	PF,VL,SPR ARMS DET,BRT BAR,VERY R,FACE ON,2B**S TO S,PAIR/3729		
Feb 23 2006	31" 17mmT4	VB,EF,LARGE BNUC,F* CLOSE TO NUC IN GAL,PATCHY,ARMS SUSP,H2 REGIONS,PAIR=MAC,R=E		
<b>H222-1</b>	<b>NGC 3729</b>	<b>UMa</b>	<b>Galaxy SB(r)a pec</b>	<b>PB,PL,LE0,GBM,*12NR</b>

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<b>H222-1</b>	<b>NGC 3729</b>	<b>UMa</b>	<b>Galaxy SB(r)a pec</b>	<b>PB,PL,LE0,GBM,*12NR</b>
Oct 22 1982	12.5" 24mm	VF,ML,OVAL,NND,MOD HISB,F* IN S PART,PAIR/3718		
Mar 15 1985	12.5" 16mm	MB,ML,BRT THAN 3718,MOD HISB,B* ON S EDGE,UB,PAIR/3718		
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		
<b>H223-1</b>	<b>NGC 4026</b>	<b>UMa</b>	<b>Galaxy S0 sp</b>	<b>VB,CL,ME176,VSVMBMN</b>
Feb 12 1983	12.5" 16mm	MB,PS,EDGE ON,DUST LANE SUSP,VBM,CENTRAL BULGE		
<b>H224-1</b>	<b>NGC 4085</b>	<b>UMa</b>	<b>Galaxy SAB(s)c:?</b>	<b>B,PL,ME78,VSMB</b>
Mar 06 2003	12.5" 9mmT6	MB,VL,EDGE ON,UB,NND,PAIR=4088,R=G		
Feb 12 1983	12.5" 24mm	DIF,PF,ML,EDGE ON,UB,NND,PAIR/4088		
<b>H224-2</b>	<b>NGC 404</b>	<b>And</b>	<b>Galaxy SA(s)0-:</b>	<b>PB,CL,R,GBM,</b>
Sep 23 1981	12.5" 16mm	F* TO NE 2 GAL DIA AWAY,BM,KEEP BETA OUT OF FIELD,DIM NUC,MF,MS		
Sep 20 1981	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm	VERY CLOSE TO B*		
Aug 31 1984	12.5" 12mm	VF,MS,FNUC,F*NW 1 GAL DIA,OVAL-R,SBM,KEEP BETA OUT OF FIELD		
Aug 19 1980	12.5" 24mm			
<b>H225-1</b>	<b>NGC 4102</b>	<b>UMa</b>	<b>Galaxy SAB(s)b?</b>	<b>B,PS,R,BMBN,*12SPVNR</b>
Mar 06 2003	12.5" 9mmT6	PB,ML,OVAL,BNUC,HISB,LARGE HISB NUC,F* OFF ONE EDGE,R=G		
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,R,BM,F* (13 MAG) W EDGE,F* FARTHER E		
<b>H226-1</b>	<b>NGC 3631</b>	<b>UMa</b>	<b>Galaxy SA(s)c</b>	<b>PB,L,R,SVMBMRN</b>
Oct 22 1982	12.5" 16mm	DIF,VF,MS,PATCHY,OVAL,STELL NUC		
Mar 15 1985	12.5" 16mm	MB,ML,FNUC,FACE ON,SBM,SMALL NUC,SPR STR DET,2 *S OUTER ARMS		
<b>H228-1</b>	<b>NGC 3898</b>	<b>UMa</b>	<b>Galaxy SA(s)ab</b>	<b>B,PL,LE,SVMBM</b>
Mar 15 1985	12.5" 12mm	PB,ML,BNUC,HISB,BM,R-OVAL,PAIR/3888		
Feb 12 1983	12.5" 16mm	MB,PL,ELONG,BNUC,VMBM		
<b>H229-1</b>	<b>NGC 3998</b>	<b>UMa</b>	<b>Galaxy SA(r)0^?</b>	<b>CB,PS,R,VG,SMBM</b>
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,R,COMP TO W = 3990		
Feb 12 1983	12.5" 16mm	MB,MS,BNUC,R,VMBM,FAINT COMP (3990),FORMS TRI WITH 3982		
<b>H231-1</b>	<b>NGC 5473</b>	<b>UMa</b>	<b>Galaxy SAB(s)0-:</b>	<b>PB,S,R,GBM</b>
Mar 27 1981	12.5" 24mm			
Mar 06 2003	12.5" 9mmT6	PB,ML,R,BNUC,MOD HISB,R=G		
Jun 11 1983	12.5" 20mm	MB,PS,BNUC,BETWEEN 2 F*S E&W,R,SBM,CLOSE TO M101 (NORTH)		
<b>H233-2</b>	<b>NGC 7332</b>	<b>Peg</b>	<b>Galaxy S0 pec sp</b>	<b>CB,S,ME156,SMBMN,P-2</b>
Sep 21 1984	12.5" 12mm	SAME,NO *S		
Sep 18 1982	12.5" 16mm	MB,ML,EDGE ON,BNUC,GMBM,TAPPERED,PAIR/7339		
Sep 14 2012	36" 17mmT4	VB,VL,EDGE ON,SMALL BNUC,EXCELLENT PAIR,CENTRAL BULGE,GMBM,HISB MIDDLE,PAIR=7339,R=E		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Jul 29 1981	12.5" 16mm	EDGE ON,GMBM		
Jul 15 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm	LOC BETWEEN 2B*S		
Jul 07 1981	12.5" 16mm	DIF,MB,ML,FAINT HALO,FAINT COMP CLOSE BY		
Jul 06 1983	12.5" 16mm	MF,MS,EDGE ON,BNUC,CLOSE PAIR/7339,MINATURE M104,BRT BULGE,TAPPERED ENDS		
Aug 10 2002	12.5" 12mm	SAME		
<b>H236-1</b>	<b>NGC 5631</b>	<b>UMa</b>	<b>Galaxy SA(s)0^</b>	<b>B,S,R,PSBMN</b>

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<b>H236-1</b>	<b>NGC 5631</b>	<b>UMa</b>	<b>Galaxy SA(s)0<sup>^</sup></b>	<b>B,S,R,PSBMN</b>
Jun 11 1983	12.5" 20mm	MF,VS,BNUC,SEVERAL F*S TO N,R,GBM,BARREN AREA TO SOUTH		
Jun 01 2003	12.5" 9mmT6	PB,ML,ELONG,BNUC,SHISB,HALO-ARMS,SMALL BRFT NUC,STELLAR LIKE,GMBM,R=G		
<b>H240-2</b>	<b>NGC 7814</b>	<b>Peg</b>	<b>Galaxy SA(s)ab: sp</b>	<b>CB,CL,E,VGBM</b>
Sep 21 1984	12.5" 16mm	MB,PL,ELONG,LARGE SOFT NUC,HISB,NO *S		
Sep 10 1980	12.5" 24mm			
Jul 07 1981	12.5" 24mm	DIF,MF,ML,VERY FAINT HALO		
<b>H242-1</b>	<b>NGC 2681</b>	<b>UMa</b>	<b>Galaxy (R')SAB(rs)0/a</b>	<b>VB,VL,VG,VSMBM*10</b>
Oct 16 1982	12.5" 16mm	MB,MS,R,GMBM,BNUC,2F*S W,1F* E		
Mar 15 1985	12.5" 16mm	SAME		
Dec 03 1980	12.5" 24mm			
<b>H244-1</b>	<b>NGC 3619</b>	<b>UMa</b>	<b>Galaxy (R)SA(s)0+:</b>	<b>CB,CL,R,VGMBM</b>
Oct 22 1982	12.5" 16mm	R,DIF,MF,PS,FUZZY,SBM		
Mar 15 1985	12.5" 12mm	PF,MS,PATCHY,SMALL NUC,FAINTER THAN 3613,PAIR/3613		
<b>H245-1</b>	<b>NGC 3642</b>	<b>UMa</b>	<b>Galaxy SA(r)bc:</b>	<b>PB,PL,R,VGBM</b>
Mar 15 1985	12.5" 16mm	DIF,PF,PS,OVAL-PATCHY,SBM		
<b>H247-2</b>	<b>NGC 7177</b>	<b>Peg</b>	<b>Galaxy SAB(r)b</b>	<b>PB,PS,R,BMN,R,*SP</b>
Sep 21 1984	12.5" 16mm	MB,PL,BNUC,R,BM,4F*S IN A LOOP STARTING TOWARDS S,MOD HISB		
Sep 10 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 07 1981	12.5" 16mm	DIF,MF,PS,DIM HALO		
Aug 25 1982	12.5" 16mm	MB,PL,MOD HISB,F*S 1 GAL DIA,R,VMBM		
Aug 10 2002	12.5" 9mmT6	VDIF,VF,PS,PATCHY,SLIGHTLY ELONG		
<b>H249-1</b>	<b>NGC 2742</b>	<b>UMa</b>	<b>Galaxy SA(s)c:</b>	<b>CB,CL,E90,ER</b>
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		
Mar 15 1985	12.5" 16mm	DIF,PF,PS,PATCHY-OVAL,NND,UB,3F*S TO S 1 GAL DIA		
Mar 06 2003	12.5" 9mmT6	VB,VL,OVAL,NND,MOD HISB,PATCHY,SPR STR SUSP,R=E		
<b>H250-1</b>	<b>NGC 2768</b>	<b>UMa</b>	<b>Galaxy E6:</b>	<b>CB,CL,LE,PSBMLBN</b>
Oct 16 1982	12.5" 12mm	MB,ML,2F*S OFF TO S,2B*S ON BOTH SIDES,ELONG,MBM,TAPPERED,BNUC		
Mar 15 1985	12.5" 16mm	MB,PL,OVAL,PATCHY,MOD HISB TOWARDS MIDDLE,NO *S		
Mar 06 2003	12.5" 9mmT6	VB,VL,OVAL,BNUC,HISB,DUST EXPECTED,GMBM,STELL NUC,HISB MIDDLE,MOD HISB ARMS,R=E		
Dec 03 1980	12.5" 24mm			
<b>H251-1</b>	<b>NGC 3945</b>	<b>UMa</b>	<b>Galaxy (R)SB(rs)0+</b>	<b>B,PL,R,GMBM,R,*12SP</b>
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,3F*S SURROUND OBJECT,R,VMBM,HISB MIDDLE		
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,2F*S N,1*W,HISB,R,SBM		
<b>H251-2</b>	<b>NGC 7448</b>	<b>Peg</b>	<b>Galaxy SA(rs)bc</b>	<b>PB,L,E173,VGBM,*F2'</b>
Sep 21 1984	12.5" 12mm	MF,PL,ELONG,MOD HISB,BETWEEN 2*S,SBM,NO *S		
Sep 10 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	PF,LOC BETWEEN 2F*S		
Jul 12 1980	12.5" 24mm			
Jul 07 1981	12.5" 24mm	DIF,MF,ML,FAINT ARM		
<b>H252-1</b>	<b>NGC 4041</b>	<b>UMa</b>	<b>Galaxy SA(rs)bc:</b>	<b>B,CL,R,G,PSVMBMRN</b>
Mar 06 2003	12.5" 9mmT6	VB,PL,R,HISB,VERY LARGE NUC,VF* SUSP IN GAL,SMALL AREA (RING),FAINT ARMS,R=E		
Feb 12 1983	12.5" 16mm	MF,MS,DNUC,R,SBM,PAIR/4036		
<b>H252-3</b>	<b>NGC 488</b>	<b>Psc</b>	<b>Galaxy SA(r)b</b>	<b>PB,L,R,SVMBM,*8F10'</b>

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<b>H252-3</b>	<b>NGC 488</b>	<b>Psc</b>	<b>Galaxy SA(r)b</b>	<b>PB,L,R,SVMBM,*8F10'</b>
Sep 24 1981	12.5"	16mm	MB,ML,BNUC,VMBM,R,HISB,LINE OF 5**S TO S	
Sep 07 1980	12.5"	24mm	B* CLOSE	
Oct 31 1980	12.5"	24mm		
Oct 29 1980	8"	24mm		
<b>H253-1</b>	<b>NGC 4036</b>	<b>UMa</b>	<b>Galaxy S0-</b>	<b>VB,VL,E</b>
Mar 06 2003	12.5"	9mmT6	VB,VL,BNUC,VBM,LARGE BRT NUC,HISB MIDDLE,TAPERED ENDS,R=E	
Feb 12 1983	12.5"	16mm	MB,PL,EDGE ON,BNUC,CENTRAL BULGE,DUST LANE SUSP,BM,PAIR/4041	
<b>H256-1</b>	<b>NGC 5322</b>	<b>UMa</b>	<b>Galaxy E3-4</b>	<b>VB,PL,IR,PSMBM</b>
Feb 12 1983	12.5"	16mm	VB,ML,BNUC,R,BM,2F**S OFF IN A LINE	
Apr 03 2005	31"	17mmT4	VB,VL,ELONG,OVAL,LARGE BNUC,HISB MIDDLE,* OR COMP OFF NUC,F* ON EDGE,SN?,R=E	
<b>H258-1</b>	<b>NGC 1491</b>	<b>Per</b>	<b>Nebula E</b>	<b>VB,S,IF,BM,R,*INV</b>
Aug 10 2002	12.5"	25mm	PB,PL,MOD HISB,IRR IN SHAPE,BRT NEBULA,LARGE PATCH	
<b>H261-1</b>	<b>NGC 1931</b>	<b>Aur</b>	<b>Open Cluster I 3 p n</b>	<b>VB,L,R,B***IN M</b>
Aug 21 1982	12.5"	16mm	MF,PS,3F**S IN CENTER,GBM,OVAL,BRIGHT CENTRAL REGION	
<b>H264-1</b>	<b>NGC 4250</b>	<b>Dra</b>	<b>Galaxy SAB(r)0+</b>	<b>PB,S,R,PGBM</b>
Feb 04 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
<b>H266-2</b>	<b>NGC 2613</b>	<b>Pyx</b>	<b>Galaxy SA(s)b</b>	<b>CB,L,VME110</b>
Oct 22 1982	12.5"	16mm	VDIF,VF,MS,ELONG,F FIELD **S AROUND OBJECT,NND,UB	
<b>H270-1</b>	<b>NGC 3610</b>	<b>UMa</b>	<b>Galaxy E5:</b>	<b>VB,PS,LE90,VSVMBSN</b>
Oct 22 1982	12.5"	16mm	PB,MS,BNUC,R,GMBM	
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,R,BM,SLIGHT TAPPERING DET	
<b>H271-1</b>	<b>NGC 3613</b>	<b>UMa</b>	<b>Galaxy E6</b>	<b>VB,CL,ME305,SMBMN</b>
Oct 22 1982	12.5"	16mm	MB,PS,BNUC,R,SMALL BNUC,GBM,PAIR/3619	
Mar 15 1985	12.5"	12mm	PB,PS,BNUC,OVAL,SMBM,PAIR/3619	
<b>H273-1</b>	<b>NGC 4589</b>	<b>Dra</b>	<b>Galaxy E2</b>	<b>CB,L,LE,PGBM</b>
Feb 23 2006	31"	17mmT4	EB,VL,OVAL,LARGE BNUC,HISB,SEVERAL **S AROUND NUC ON EDGE,SMBM,R=E	
<b>H280-1</b>	<b>NGC 6217</b>	<b>UMi</b>	<b>Galaxy (R)SB(rs)bc</b>	<b>B,CL,LE,SLBM</b>
Jun 22 2003	12.5"	9mmT6	PB,VL,R,FNUC,SHISB,FACE ON,SMALL FAINT NUC,DUST SUSP,FARMS,R=E	
Aug 13 1982	12.5"	16mm	PF,PS,DIF,STELL NUC,OVAL,SBM,NO **S	
<b>H282-2</b>	<b>NGC 615</b>	<b>Cet</b>	<b>Galaxy SA(rs)b</b>	<b>PB,PL,ILE,GBM,*8NP10</b>
Sep 27 1981	12.5"	16mm	DIF,MF,MS,ELONG,FNUC,STELL NUC,BRIGHTER IN EQ PLANE	
Sep 10 1980	12.5"	24mm		
<b>H285-1</b>	<b>NGC 2976</b>	<b>UMa</b>	<b>Galaxy SAc pec</b>	<b>B,VL,ME152,ST INV</b>
Mar 27 1981	12.5"	24mm		
Mar 15 1985	12.5"	16mm	IRR,DIF,PF,VL,ELONG,PATCH,F* S EDGE BY NUC,UB	
Dec 03 1980	12.5"	24mm	F* IN OUTER ARM REGION	
Aug 22 1980	12.5"	24mm		
Apr 14 2004	31"	17mmT4	MB,VL,PATCH,UB,MOD HISB,VERY UNIQUE IN APPEARANCE,3**S AROUND EDGE,RECT,R=E	
<b>H286-1</b>	<b>NGC 3077</b>	<b>UMa</b>	<b>Galaxy I0 pec</b>	<b>CB,CL,MBM,R WITH RAY</b>
Oct 22 1982	12.5"	12mm	SAME	
Oct 22 1982	12.5"	16mm	MB,ML,BNUC,R-OVAL,HISB,GMBM,LARGE NUC AREA,	
Mar 27 1981	12.5"	24mm		
Mar 15 1985	12.5"	16mm	SAME	
Mar 06 2003	12.5"	9mmT6	EB,EL,OVAL,BNUC,HISB,LARGE NUC AREA,MUCH HISB MIDDLE,R=E	
Dec 03 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
<b>H288-1</b>	<b>NGC 2655</b>	<b>Cam</b>	<b>Galaxy SAB(s)0/a</b>	<b>VB,CL,LE90,GSVMBM</b>

## Herschel 400 (I) Observations

<b>H288-1</b>	<b>NGC 2655</b>	<b>Cam</b>	<b>Galaxy SAB(s)0/a</b>	<b>VB,CL,LE90,GSVMBM</b>
Sep 18 1980	12.5"	24mm		
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	
Dec 21 1981	12.5"	16mm	PB,ML,R,BM,HISB	
<b>H296-2</b>	<b>NGC 4027</b>	<b>Crv</b>	<b>Galaxy SB(s)dm</b>	<b>GCL,PF,PL,R,RR,ST16</b>
May 03 1981	12.5"	16mm	DIF,PB,PL,DNUC,FAINT HALO	
Apr 06 2008	31"	17mmT4	MB,ML,OVAL,MOD HISB,V*OUTTER EDGE,LG CENTRAL REGI,PATCHY NUC,MBM,PAIR=4027A,R=G	
<b>H316-2</b>	<b>NGC 2371</b>	<b>Gem</b>	<b>Planetary Neb 3a+2</b>	<b>B,S,R,BMN,P OF DNEB</b>
Oct 31 1980	12.5"	16mm	DOUBLE NEBULA,2 NEB ON TOP OF EACH OTHER,NICE!!	
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	
Feb 21 1984	12.5"	12mm	SAME	
Feb 21 1984	12.5"	12mm	SAME,SOUTH PART BRT THAN N,CENTRAL * DET,VF,VS	
Dec 28 2008	31"	17mmT4	PB,PL,C*15,2 HALVES,LOBS BOTH SIDES,SHISB,HOUR GLASS SH,OIII HELPS V LITTLE,R=E	
Dec 03 1980	12.5"	24mm		
<b>H342-2</b>	<b>NGC 3912</b>	<b>Leo</b>	<b>Galaxy SAB(s)b? pec</b>	<b>F,PL,R,PGBM</b>
Mar 03 1984	12.5"	12mm	SAME,NO *S	
Feb 12 1983	12.5"	16mm	VDIF,VF,VS,UB,PATCHY,SAME 24MM FIELD WITH 3900	
<b>H359-2</b>	<b>NGC 3277</b>	<b>LMI</b>	<b>Galaxy SA(r)ab</b>	<b>CB,CS,R,PGBM</b>
Feb 25 1982	12.5"	16mm	DIF,MF,MS,FNUC,SBM,R	
Dec 03 1980	12.5"	24mm		
<b>H362-2</b>	<b>NGC 3414</b>	<b>LMI</b>	<b>Galaxy S0 pec</b>	<b>B,PL,R,MBM</b>
Oct 22 1982	12.5"	16mm	MF,MS,BNUC,R,SMBM,SMALL STELL BNUC	
Feb 15 2004	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,HISB,PAIRS=3418/MAC,R=E	
Dec 03 1980	12.5"	24mm		
<b>H402-2</b>	<b>NGC 6118</b>	<b>Ser</b>	<b>Galaxy SA(s)cd</b>	<b>VF,CL,CE45,R</b>
May 31 1981	12.5"	16mm	DIF,VB,ML,FAINT HALO	
<b>H452-2</b>	<b>NGC 210</b>	<b>Cet</b>	<b>Galaxy SAB(s)b</b>	<b>B,PS,R,PSBM,R,*11P2'</b>
Sep 24 1981	12.5"	16mm	MB,PL,DNUC,GBM,F * W 1 GAL DIA,S OVAL,PAIR W 178 IN 24 MM	
Sep 10 1980	12.5"	24mm		
Sep 09 1980	12.5"	24mm		
<b>H466-2</b>	<b>NGC 1087</b>	<b>Cet</b>	<b>Galaxy SAB(rs)c</b>	<b>PB,CL,LE,MBM</b>
Sep 27 1981	12.5"	16mm	MB,PL,OVAL,HISB,SBM,PAIR/1090 AND ANOTHER	
Sep 18 1980	12.5"	24mm		
Sep 09 1980	12.5"	24mm	PAIR/1090	
Oct 29 1980	8"	24mm		
<b>H500-2</b>	<b>NGC 4535</b>	<b>Vir</b>	<b>Galaxy SAB(s)c</b>	<b>PF,VL,R</b>
May 03 1981	12.5"	24mm	DIF,PB,EF,DARM,F* APPROX 11 MAG	
<b>H505-2</b>	<b>NGC 2811</b>	<b>Hya</b>	<b>Galaxy SB(rs)a</b>	<b>PB,PS,E,PSMBM</b>
Oct 22 1982	12.5"	16mm	MF,PS,SLIGHTLY ELONG,SBM,F* W SEVERAL GAL DIA	
Feb 12 1983	12.5"	16mm	DIF,PF,PS,ELONG,F*W,NND,TAPPERED ENDS,FIELD OF B*S	
<b>H513-2</b>	<b>NGC 5054</b>	<b>Vir</b>	<b>Galaxy SA(s)bc</b>	<b>F,PS,IR</b>
Feb 12 1983	12.5"	24mm	EDIF,EF,VL,PATCH-OVAL,UB,NND	
<b>H534-2</b>	<b>NGC 5364</b>	<b>Vir</b>	<b>Galaxy SA(rs)bc pec</b>	<b>CF,L,R,GBM</b>
Feb 12 1983	12.5"	16mm	DIF,VF,VL,R-OVAL,UB,B* CLOSE BY,PAIR/5363	
<b>H536-2</b>	<b>NGC 4845</b>	<b>Vir</b>	<b>Galaxy SA(s)ab sp</b>	<b>PF,PL,PME,VGBM,*NF</b>



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<b>H536-2</b>	<b>NGC 4845</b>	<b>Vir</b>	<b>Galaxy SA(s)ab sp</b>	<b>PF,PL,PME,VGBM,*NF</b>
Feb 12 1983	12.5" 16mm	DIF,MF,MS,ELONG,BETWEEN 2F*S,UB,NND		
<b>H569-2</b>	<b>NGC 4273</b>	<b>Vir</b>	<b>Galaxy SB(s)c</b>	<b>PB,L,E,GBM</b>
Apr 26 2003	12.5" 9mmT6	MB,PL,OVAL,UB,STELL NUC,MOD HISB,CLUSTER,4 OF 9,R=G		
Apr 25 1981	12.5" 24mm	DIF,PF,PS,DARM,PAIR/4270/4281		
<b>H573-2</b>	<b>NGC 4281</b>	<b>Vir</b>	<b>Galaxy S0+: sp</b>	<b>B,VL,R,PGBM</b>
Apr 26 2003	12.5" 9mmT6	MP,PL,ELONG,BNUC,MOD HISB,GBM,LARGE NUC AREA,CLUSTER,1 OF 9,R=E		
<b>H584-2</b>	<b>NGC 6235</b>	<b>Oph</b>	<b>Globular</b>	<b>PB,CL,IR,RRR,*14..16</b>
Jun 18 1980	12.5" 24mm	VF,FAINT TRI OF *S SURROUND OBJECT		
Jun 04 1981	12.5" 24mm	DIF,MB,ML,10 MAG *S		
Jul 21 1984	12.5" 16mm	VDIF,VF,MS,FAINT PATCH,FAINT TRI OF *S AROUND OBJECT		
<b>H587-2</b>	<b>NGC 6426</b>	<b>Oph</b>	<b>Globular</b>	<b>VF,CL,E,VLBM</b>
Jun 04 1981	12.5" 24mm	DIF,MF,PS		
<b>H611-3</b>	<b>NGC 4725</b>	<b>Com</b>	<b>Galaxy SAB(r)ab pec</b>	<b>VB,VL,E,VG,VSVMBMEBN</b>
Mar 17 2018	36" 17mmT4	MB,VL,R,L BRT NUC,MBM,HISB MIDDLE,7F*S IN GAL,ARMS,KNOTS,PATCHES,BAR SUSP,R=GE		
Feb 12 1983	12.5" 24mm	VB,EL,BNUC,LARGE BRT NUC,OVAL,SLIGHTLY ELONG		
<b>H622-2</b>	<b>NGC 428</b>	<b>Cet</b>	<b>Galaxy SAB(s)m</b>	<b>F,L,R,BM,ER</b>
Sep 27 1981	12.5" 16mm	VDIF,MF,PL,BETWEEN 2F*S ON OPPOSITE SIDES,NNS,UB,PATCHY-OVAL		
Sep 10 1980	12.5" 24mm			
Sep 09 1980	12.5" 32mm	BETWEEN 2 BRT *S		
<b>H637-3</b>	<b>NGC 6058</b>	<b>Her</b>	<b>Planetary Neb 3+2</b>	<b>PF,VS,R,STELLAR</b>
Sep 06 2002	12.5" 16mm	PB,ML,R,DIF HALO,BM		
Sep 06 2002	12.5" 9mmT6	BM,MOD HISB,CENTRAL *		
Mar 20 2009	31" 17mmT4	MF,MS,R.B C* 12TH MAG,GRANULAR NEB,OIII KNOCKS OUT C*,DOESNOT HELP MUCH,R=F		
<b>H700-3</b>	<b>NGC 3319</b>	<b>UMa</b>	<b>Galaxy SB(rs)cd</b>	<b>CF,L,IE,MB,S OF M</b>
Mar 15 1985	12.5" 24mm	EDIF,EF,MS,OVAL,UB,*S OFF TO ONE SIDE		
<b>H701-2</b>	<b>NGC 6207</b>	<b>Her</b>	<b>Galaxy SA(s)c</b>	<b>PB,PL,E45,VGMBM</b>
Mar 27 1981	12.5" 24mm			
Jun 20 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm	GREAT,FIRST SIGHTING OF THIS OBJECT,SAME 24MM FOV AS M13		
Jul 14 1980	12.5" 24mm	WITH BARLOW THERE IS A B* IN GAL CENTER		
Jul 12 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 05 1980	12.5" 24mm			
Feb 25 1982	12.5" 16mm	DIF,MF,PS,ELONG,FNUC,BY M13,4F*S W SIDE,STELL NUC		
<b>H706-2</b>	<b>NGC 7538</b>	<b>Cep</b>	<b>Nebula E</b>	<b>VF,L,2PB*INV</b>
Sep 18 2004	31" 17mmT4	W/OIII,PB,PL,UB,SHISB,2 B*S IN CTR,WHISPS OF NEB,SPIRAL SHAPE,GREENISH,R=E		
<b>H707-2</b>	<b>NGC 185</b>	<b>Cas</b>	<b>Galaxy E3 pec</b>	<b>PB,VL,IR,VGMBM,R</b>
Sep 28 2013	36" 17mmT4	PB,PL,OVAL,UB,MOD HISB,SEVERAL VF* IN GAL AREA,R=G		
Sep 18 1980	12.5" 24mm			
Jul 31 1981	12.5" 24mm	DIF,SETLLAR NUC,DIF HALO,R TO OVAL IN SHAPE		
Jul 17 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	DIF,EF,PL,AVERTED VISION		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
<b>H716-2</b>	<b>NGC 5371</b>	<b>CVn</b>	<b>Galaxy SBbc</b>	<b>PB,L,R,BMFn</b>
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		

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<b>H716-2</b>	<b>NGC 5371</b>	<b>CVn</b>	<b>Galaxy SBbc</b>	<b>PB,L,R,BMFn</b>
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		
<b>H730-2</b>	<b>NGC 3726</b>	<b>UMa</b>	<b>Galaxy SAB(r)c</b>	<b>PB,VL,LE0,VSMBM,*11N</b>
Oct 22 1982	12.5" 24mm	MB,PL,UB,OBLONG,F* IN N TIP,NND		
Mar 15 1985	12.5" 16mm	DIF,MF,VL,F* ON N EDGE,UB,SOME KNTY STR SUSP		
<b>H738-2</b>	<b>NGC 3893</b>	<b>UMa</b>	<b>Galaxy SAB(rs)c:</b>	<b>B,PL,R,MBM</b>
Mar 15 1985	12.5" 16mm	MB,ML,FNUC,R,F* ON EDGE,SBM,HISB		
Feb 12 1983	12.5" 16mm	MB,PL,BNUC,B* IN W SIDE,SBM,OVAL		
<b>H739-3</b>	<b>NGC 6015</b>	<b>Dra</b>	<b>Galaxy SA(s)cd</b>	<b>VF,PL,R,VGBM</b>
Jun 20 1980	12.5" 24mm			
Jun 01 2003	12.5" 9mmT6	MB,VL,ELONG,OVAL,NND,SHISB,F*S IN TIP,CIGAR SHAPE,CENTRAL BULGE,R=G		
Jul 22 1981	12.5" 16mm	DIF,OVAL,F* TO N SIDE,SPR STR SUPS,14MAG *		
Jul 14 1980	12.5" 24mm	LOOKS LIKE A SMALL CLUSTER,APPROX 4 *S?		
Jul 11 1980	12.5" 24mm			
Jul 09 1983	12.5" 16mm	MB,PL,OVAL,MOD HISB,3F*S OFF TO N,B*NW CLOSE BY,NND		
<b>H743-3</b>	<b>NGC 6781</b>	<b>Aql</b>	<b>Planetary Neb 3+3</b>	<b>PLN,F,L,R,VSMB DISC</b>
Sep 02 2008	31" 17mmT4	MB,VL,OVAL,NO C*,ONE SIDE BROKEN,OIII HELPS SOMEWHAT,LG CENT DK AREA BK SIDE,R=E		
Jul 10 1981	12.5" 12mm	VL,DIF,R,DARK PATCHES SEEN IN CENTRAL AREA,GRAYISH COLOR DIF NEB		
Aug 31 1984	12.5" 12mm	MF,PL,R,PATCHY,RESEMBLES HELIX NEB		
<b>H747-3</b>	<b>NGC 1961</b>	<b>Cam</b>	<b>Galaxy SAB(rs)c</b>	<b>CF,PL,IF,MBM,ER,*INV</b>
Sep 18 1980	12.5" 24mm			
Oct 03 1981	12.5" 16mm	MF,PL,F*E SIDE,NNS,PATCHY,SLIGHTLY OVAL,F* S PART OF GAL		
Jan 30 2003	12.5" 9mmT6	MF,VL,OVAL,PATCH,UB,SHISB,F* IN GAL,CLUSTER 1 OF 8,R=G		
Dec 21 1981	12.5" 16mm	DIF,VF,PS,PATCHY,SBM,F* JUST BESIDE NUC,LINE OF 2F*S TO S		
<b>H748-2</b>	<b>NGC 4217</b>	<b>CVn</b>	<b>Galaxy Sb sp</b>	<b>PF,L,ME45,**N,P OF 2</b>
Mar 27 1981	12.5" 24mm			
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		
<b>H759-2</b>	<b>NGC 5907</b>	<b>Dra</b>	<b>Galaxy SA(s)c: sp</b>	<b>CB,VL,VME155,VGPSBMN</b>
Mar 27 1981	12.5" 24mm			
Jun 20 1980	12.5" 24mm	VERY IMPRESSIVE,VB,ELONG		
Jul 22 1981	12.5" 16mm	EXT EDGE ON,UB,EQ DUST LANE SEEN		
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 09 1983	12.5" 16mm	MB,PS,ELONG,VERY EDGE ON,FNUC,PAIR/5905		
Apr 23 2003	12.5" 9mmT6	VF,VL,EDGE ON,BNUC,MOD HISB,BEAUTIFUL,DUST LANE,CENTRAL BULGE,R=E		
<b>H764-2</b>	<b>NGC 5982</b>	<b>Dra</b>	<b>Galaxy E3</b>	<b>CB,S,R,PSBM,R</b>
Jun 20 1980	12.5" 24mm			
Jul 22 1981	12.5" 24mm	VMBM,FAINT HALO,COMP CLOSE 5985		
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jul 09 1983	12.5" 16mm	MB,ML,BNUC,R,BM,SEVERAL OTHER PAIRS		
Apr 23 2003	12.5" 9mmT6	VF,ML,BNUC,R,MOD HISB,GMBM,LARGE NUC,PAIR=5981/5985,R=G		
<b>H766-2</b>	<b>NGC 5985</b>	<b>Dra</b>	<b>Galaxy SAB(r)b</b>	<b>PB,CL,IE,R</b>
Jun 20 1980	12.5" 24mm			
Jul 22 1981	12.5" 16mm	DIF,R,SPR STR SUSP,OTHER GAL PRESENT		
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			

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<b>H766-2</b>	<b>NGC 5985</b>	<b>Dra</b>	<b>Galaxy SAB(r)b</b>	<b>PB,CL,IE,R</b>
Jul 11 1980	12.5"	24mm		
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	
Apr 23 2003	12.5"	9mmT6	MB,VL,OVAL,PATCH,UB,NND,PATCHY KNTS SUSP,PAIR=5981/5982,R=G	
<b>H769-2</b>	<b>NGC 2339</b>	<b>Gem</b>	<b>Galaxy SAB(rs)bc</b>	<b>PB,PL,R,GLBM</b>
Oct 31 1980	12.5"	24mm	AMONG FIELD OF RICH *S,UB	
Oct 30 1981	12.5"	12mm	DIF,PF,ML,14* IN GAL E SIDE,MOD HISB,NND	
Feb 21 1984	12.5"	16mm	SAME	