

Herschel 400 (I) Observations

H1-1	NGC 1055	Cet	Galaxy SBb: sp	PF,CL,IE80,BM,*11N1'
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		
H1-4	NGC 7009	Aqr	Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
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		
H1-6	NGC 2420	Gem	Open Cluster 11.0 I 1 r	CL,CL,RI,C,ST11...18
Oct 30 1981	12.5" 16mm	MB,ML,WELL DISPERSED IN 16MM		
Feb 21 1984	12.5" 16mm	SAME,APPROX 50-100*S,MB,ML		
H1-8	NGC 2509	Pup	Open Cluster I 1 r	CL,B,PRI,LC,ST S
Oct 16 1982	12.5" 24mm	MF,ML,APPROX 50*S,LOOSE,FEW B*S IN CLUSTER		
H2-1	NGC 2775	Cnc	Galaxy SA(r)ab	CB,CL,R,VGVSMBM,R
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			
H2-5	NGC 4536	Vir	Galaxy SAB(rs)bc	B,VL,ME110,SBM,ER
May 03 1981	12.5" 24mm	DIF,PB,EL,ELONG,DARM,PAIR/4527		
H2-6	NGC 2304	Gem	Open Cluster II 1 m	CL,PL,RI,MC,ST VS
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		
H2-7	NGC 2244	Mon	Open Cluster 7.0 II 3 r n	CL,BEAUTIFUL,STSC
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		
H3-1	NGC 3166	Sex	Galaxy SAB(rs)0/a	B,PS,R,PSMBM,2ND OF3
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		
H3-2	NGC 157	Cet	Galaxy SAB(rs)bc	PB,L,E,BET2CB*
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		
H3-8	NGC 2251	Mon	Open Cluster 9.1 III 2 m	CL,VL,E,RI,LC
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		
H4-1	NGC 3169	Sex	Galaxy SA(s)a pec	B,PL,VLE,PGMBM,3RD-3

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H4-1	NGC 3169	Sex	Galaxy SA(s)a pec	B,PL,VLE,PGMBM,3RD-3
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		
H4-2	NGC 596	Cet	Galaxy E+ pec:	PB,R,BM,R,*6F12'
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		
H4-7	NGC 1817	Tau	Open Cluster 9.0 IV 2 r	CL,L,RI,LC,ST11...14
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		
H5-1	NGC 3655	Leo	Galaxy SA(s)c:	PB,PS,IR,BM,R
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		
H5-4	NGC 4437	Vir	Galaxy SA(s)cd: sp	F,EE75,*10NF
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			
H5-5	NGC 4293	Com	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
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		
H5-6	NGC 2194	Ori	Open Cluster 13.0 II 2 r	CL,L,RI,GVMCM
Dec 30 1983	12.5" 24mm	SAME		
Aug 21 1982	12.5" 24mm	MF,PS,40-50*S,FAINT GLOW BETWEEN *S,SLIGHTLY OVAL		
H5-8	NGC 2264	Mon	Open Cluster 5.0 III 3 m n	15MON,CL,**,(NEB)
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		
H6-1	NGC 5363	Vir	Galaxy I0?	B,PL,R,PSBM,*8NF
Feb 12 1983	12.5" 16mm	VB,ML,BNUC,R,BM,PAIR/5364		
H6-6	NGC 2355	Gem	Open Cluster 13.0 II 2 m	CL,PS,PRI,MC,*15..16
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		
H8-1	NGC 4698	Vir	Galaxy SA(s)ab	CB,PL,IR,BM,R
Mar 27 1982	12.5" 12mm	MF,MS,DNUC,DIF HALO,SMBM,R,BETWEEN 2F*S		
H8-5	NGC 3628	Leo	Galaxy Sb pec sp	PB,VL,VME102
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			
H8-7	NGC 6940	Vul	Open Cluster 11.0 III 2 r	CL,VB,VL,VRI,CC,STPL
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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H8-7	NGC 6940	Vul	Open Cluster 11.0 III 2 r	CL,VB,VL,VRI,CC,STPL
Jul 30 1981	12.5" 12mm	PB,PL,LARGE IN B* FIELD		
H8-8	NGC 1647	Tau	Open Cluster 9.0 II 2 r	CL,VL,ST L,SC
Aug 21 1982	12.5" 24mm	MB,EL,APPROX 20*S,FILLS 24MM,LOOSE,SCATTERED		
H9-1	NGC 4179	Vir	Galaxy S0 sp	PB,PS,PME135,BMN
Apr 25 1981	12.5" 24mm	DIF,PF,PS,ELONG,BNUC,F HALO		
H9-6	NGC 5466	Boo	Globular	CL,L,VRI,VMC,ST11...
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		
H9-7	NGC 6830	Vul	Open Cluster 10.0 II 2 p	CL,L,PRI,PC,*11...12
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		
H10-1	NGC 4643	Vir	Galaxy SB(rs)0/a	CB,PS,LE,MBM
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		
H10-7	NGC 2482	Pup	Open Cluster 10.0 IV 1 m	CL,L,CRI,VLC
Dec 03 1980	12.5" 24mm	BLENDS IN WITH FIELD *S,DOESNOT STAND OUT WELL		
H11-4	NGC 6369	Oph	Planetary Neb 4+2	RINGNEB,PB,S,R
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		
H11-6	NGC 6284	Oph	Globular	GCL,B,L,R,CM,ST16...
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		
H11-7	NGC 2539	Pup	Open Cluster 9.0 III 2 m	CL,VL,RI,LC,*11...13
Dec 03 1980	12.5" 24mm	DOUBLE * IN CLUSTER (YELLOW & BLUE),BEAUTIFUL!!!		
H11-8	NGC 2395	Gem	Open Cluster 10.0 IV 2 m	CL,PRI,C
Oct 30 1981	12.5" 24mm	MB,PL,SOME B*S WITH FAINTER *S		
Feb 21 1984	12.5" 24mm	SAME		
H12-7	NGC 2360	CMa	Open Cluster 10.4 I 3 r	CL,VL,RI,PC,ST9...12
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		
H12-8	NGC 6664	Sct	Open Cluster 9.0 III 2 m	CL,L,PRI,VLC
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		
H13-1	NGC 3521	Leo	Galaxy SAB(rs)bc	CB,CL,ME140,VSMBMN
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		
H13-7	NGC 2204	CMa	Open Cluster 13.0 II 2 r	CL,L,PRI,LC
Oct 16 1982	12.5" 24mm	VF,ML,LOOSE-SCATTERED,APPROX 50*S,BRT * OUTSIDE CLUSTER		
H14-5	NGC 6992	Cyg	Nebula E	EF,EL,EE,EIF,BIFID
Sep 04 2002	12.5" 32mm	VB,EEL,SNR,HISB,ARC GOES 2 FOV'S		

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H14-5	NGC 6992	Cyg	Nebula E	EF,EL,EE,EIF,BIFID
Sep 04 2002	12.5" 32mm	VB,EEL,SNR,HISB,ARC GOES 2 FOV'S		
H14-6	NGC 6802	Vul	Open Cluster 14.0 I 1 m	CL,L,VC,E0,ST14...18
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		
H15-1	NGC 4666	Vir	Galaxy SABc:	B,VL,ME45,PSBM
Mar 27 1982	12.5" 12mm	DIF,MF,PL,EDGE ON,FNUC,STELL NUC,SBM,TAPPED ENDS		
H16-1	NGC 4753	Vir	Galaxy I0	CB,L,VLE,VGLBM
Feb 12 1983	12.5" 16mm	MB,ML,ELONG,DNUC,SMB,STELL NUC		
H16-4	NGC 6905	Del	Planetary Neb 3+3	PLN,B,PS,R,4S*NR
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		
H16-8	NGC 6834	Cyg	Open Cluster 11.0 II 2 m	CL,P,LC,*11...12
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		
H17-1	NGC 3379	Leo M105	Galaxy E1	VB,CL,R,PSBM,R
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			
H17-5	NGC 598	Tri M33	Galaxy SA(s)cd	EB,EL,R,VGBMN 6
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			
H17-6	NGC 2158	Gem	Open Cluster 15.0 II 3 r	CL,PS,MC,VRI,IRRTRI
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			
H17-7	NGC 2362	CMa	Open Cluster 8.0 I 3 r	CL,PL,RI,30CMA
Oct 31 1980	12.5" 24mm	6TH MAG CENTRAL * SURROUNDED BY 9TH *S,EXCELLENT		

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H17-7	NGC 2362	CMa	Open Cluster 8.0 I 3 r	CL,PL,RI,30CMA
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		
H18-1	NGC 3384	Leo	Galaxy SB(s)0-	VB,L,R,PSMBM,2ND OF3
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			
H18-4	NGC 7662	And	Planetary Neb 4+3	PLN ORRING,VB,PS,R
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		
H18-5	NGC 205	And M110	Galaxy E5 pec	VB,VL,ME165,VGVMBM
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			
H18-7	NGC 6823	Vul	Open Cluster 8.8 I 3 m n	CL,CRI,E,ST11...12
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		
H19-1	NGC 4147	Com	Globular	GCL,VB,PL,R,GBM,RRR
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		
H19-5	NGC 891	And	Galaxy SA(s)b? sp	B,VL,VME22
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			
H19-6	NGC 5897	Lib	Globular	GCL,PF,L,VIR,VGBM,
May 02 1981	12.5" 16mm	PB,EL		
H19-7	NGC 6755	Aql	Open Cluster 11.0 II 2 r	CL,VL,VRI,PC,,*12.14

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H19-7	NGC 6755	Aql	Open Cluster 11.0 II 2 r	CL,VL,VRI,PC,,*12.14
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	
H20-4	NGC 2185	Mon	Nebula R	*11\$4S*IN VF,L,NEB
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	
H20-5	NGC 247	Cet	Galaxy SAB(s)d	F,EL,VME172
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	
H20-7	NGC 2215	Mon	Open Cluster 11.0 II 2 m	CL,CL,PRI,PC,ST11.15
Oct 16 1982	12.5" 24mm		MF,PL,LOOSE AND SCATTERED,APPROX 20*S,WELL DEFINED	
Feb 25 1984	12.5" 24mm		SAME	
H20-8	NGC 6885	Vul	Open Cluster 5.9 III 2 m	CL,VB,VL,RI,LC,*6.11
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	
H21-1	NGC 3810	Leo	Galaxy SA(rs)c	B,L,VLE
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	
H21-4	NGC 1964	Lep	Galaxy SAB(s)b	F,VS,R,VSVMBM,3*INV
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	
H21-6	NGC 2266	Gem	Open Cluster 11.0 II 2 m	CL,PS,EC,RI,ST11..15
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	
H22-1	NGC 4371	Vir	Galaxy SB(r)0+	B,PS,R,GBM
Apr 25 1981	12.5" 24mm		PB,PS,BNUC,F HALO	
H22-6	NGC 2548	Hya M48	Open Cluster 8.0 I 3 r	CL,VL,PRI,PMC,*9..13
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			
H22-8	NGC 6882	Vul	Open Cluster	CL,P,LC
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	
H23-4	NGC 936	Cet	Galaxy SB(rs)0+	VB,VL,R,MBMN,P OF 2
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			
H24-1	NGC 4596	Vir	Galaxy SB(r)0+	B,PS,R,GMBM,R,3*F
Jun 04 1981	12.5" 24mm		MB,PL,BNUC,BRT HALO,PAIR/4608	

Herschel 400 (I) Observations

H24-1	NGC 4596	Vir	Galaxy SB(r)0+	B,PS,R,GMBM,R,3*F
Jun 04 1981	12.5" 24mm	MB,PL,BNUC,BRT HALO,PAIR/4608		
H24-5	NGC 4565	Com	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
Mar 27 1981	12.5" 24mm			
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		
H24-6	NGC 7044	Cyg	Open Cluster 15.0 I 1 r	CL,VF,PL,VRI,VC
Aug 11 1982	12.5" 24mm	DIF,MF,VL,ELONG,10-20 B*S SURROUNDED BY HUNDREDS F*S,FAINT GLOW W/AVERTED VIS		
H24-8	NGC 2169	Ori	Open Cluster 6.9 III 3 m	CL,S,LRI,PMC,**
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		
H25-1	NGC 4754	Vir	Galaxy SB(r)0-:	B,PL,R,PSBM,P OF 2
Feb 12 1983	12.5" 16mm	MF,MS,SBM,R,PAIR/4762		
H25-4	NGC 2327	CMa	Nebula	PB**INV INS,VF,NEB
Nov 21 2006	12.5" 12mmT4	DIF,PB,PS,B* WITH FAINT NEB AROUND. BRT INNER REGION,R=G		
H25-5	NGC 246	Psc	Planetary Neb 3b	VF,L,4*IN DIF NEB
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			
H25-6	NGC 1245	Per	Open Cluster 12.0 II 2 r	CL,PL,RI,C,IR,*12.15
Sep 03 1980	12.5" 24mm	GREAT!!,LOOKS LIKE MINATURE BEEHIVE		
Oct 03 1981	12.5" 24mm	MF,ML,50-80*S		
H25-7	NGC 2186	Ori	Open Cluster 12.0 II 2 m	CL,PL,PRI,PC,ST L\$\$
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		
H25-8	NGC 2232	Mon	Open Cluster 5.0 III 2 p	B* 10MON +CL
Oct 16 1982	12.5" 24mm	VB,VL,BROKEN IN 2 HALVES,12*S LOOSE AND SCATTERED,USE FINDER		
H26-4	NGC 1535	Eri	Planetary Neb 4+2c	PLN,VB,S,R,PS,VSBM,R
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		
H26-8	NGC 2129	Gem	Open Cluster 10.0 I 3 m	CL,PL,40OR50ST8...15
Oct 30 1981	12.5" 16mm	MB,ML,2B*S IN CLUSTER SURR BY 10-15*S		
H27-1	NGC 3412	Leo	Galaxy SB(s)0^	B,S,LE135,SMBMN
Jan 30 1981	12.5" 24mm	PB,PS,BNUC		
Feb 25 1984	12.5" 12mm	MB,PS,ELONG,BNUC		
H27-4	NGC 3242	Hya	Planetary Neb 4+3b	PLN,VB,LE147,45"D
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!!		
H27-6	NGC 2301	Mon	Open Cluster 8.0 I 3 r	CL,RI,L,IF,ST L\$\$
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		

Herschel 400 (I) Observations

H27-6	NGC 2301	Mon	Open Cluster 8.0 I 3 r	CL,RI,L,IF,ST L\$\$
Feb 25 1984	12.5" 24mm	SAME		
H28-1	NGC 4435	Vir	Galaxy SB(s)0^A	VB,CL,R,NP OF 2
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			
H28-1	NGC 4438	Vir	Galaxy SA(s)0/a pec:	B,CL,VLE,R,SF OF 2
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			
H28-2	NGC 3226	Leo	Galaxy E2: pec	PB,CL,R,DW/3227
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		
H28-5	NGC 2024	Ori	Nebula E	IRR,B,VVL,BLACKSPINC
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		
H28-7	NGC 2423	Pup	Open Cluster 9.0 II 2 m	CL,VL,RI,PC,ST VS
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			
H28.1-4	NGC 4038	Crv	Galaxy SB(s)m pec	PB,CL,R,VGBM
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		
H29-1	NGC 3593	Leo	Galaxy SA(s)0/a:	B,CL,E90,PSMBM
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		
H29-2	NGC 3227	Leo	Galaxy SAB(s)a pec	PB,CL,R,DW/3226
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		
H30-1	NGC 4365	Vir	Galaxy E3	CB,PL,VLE,GL,SMBM
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		
H30-6	NGC 7789	Cas	Open Cluster 10.0 II 2 r	CL,VL,VRI,VMC,*11.18
Jun 20 1980	12.5" 24mm			
Jul 31 1981	12.5" 24mm	APPROX 50-100**S,A LOT OF F**S ASSOC WITH CLUSTER		

Herschel 400 (I) Observations

H30-6	NGC 7789	Cas	Open Cluster 10.0 II 2 r	CL,VL,VRI,VMC,*11.18
Jul 31 1981	12.5" 24mm	APPROX 50-100*S,A LOT OF F*S ASSOC WITH CLUSTER		
H31-1	NGC 4526	Vir	Galaxy SAB(s)0^:	VB,VL,ME120,PSMBM
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			
H31-5	NGC 1980	Ori	Nebula III 3 m n	VF,VVL,44ORIONIS INV
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		
H31-6	NGC 663	Cas	Open Cluster 9.0 II 3 r	CL,B,L,ERI,ST PL
Jul 31 1981	12.5" 16mm	PL,CLUSTER BROKEN IN HALF,DARK PATCH THROUGH CLUSTER		
H31-8	NGC 2286	Mon	Open Cluster 9.0 III 2 m	CL,L,C,AB100*9...15
Oct 16 1982	12.5" 24mm	MF,EL,VERY POOR,NO CLUSTERING DET		
Feb 25 1984	12.5" 24mm	SAME		
H32-1	NGC 4570	Vir	Galaxy S0 sp	CB,PS,ME0,SBMRN
May 09 2010	31" 17mmT4	VB,VL,ELONG,EDGE ON,SBNUC,HISB,SUDDENLY MBM,TAPPERED ENDS,SLIGHT CENTRAL BULGE,R=G		
Jun 10 1980	6" 24mm	JUST BARELY VISIBLE		
Jun 04 1981	12.5" 24mm	PB,VS,ELONG,BNUC		
H32-5	NGC 1788	Ori	Nebula R	B,CL,R,BM,***15,*1'F
Oct 16 1982	12.5" 16mm	BRT H2 REGION OR * BETWEEN NEBULA AND *		
Oct 16 1982	12.5" 24mm	PB,ML,ELONG,BM,B* TO W IN NEBULA,VMBM		
H32-6	NGC 7086	Cyg	Open Cluster 10.2 II 2 m	CL,CL,VRI,PC,*11..16
Aug 11 1982	12.5" 24mm	MB,PL,APPROX 80*S,SOMEWHAT DIVIDED IN CENTER,9...11 MAG *S		
H32-7	NGC 752	And	Open Cluster 8.0 II 2 r	CL,VVL,RI,*L\$SC
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		
H32-8	NGC 2335	Mon	Open Cluster 10.0 III 2 m n	CL,L,LC
Oct 16 1982	12.5" 24mm	MF,MS,APPROX 30*S,LOOSE AND SCATTERED,CLOSE TO 2343		
Feb 25 1984	12.5" 24mm	SAME		
H33-2	NGC 3640	Leo	Galaxy E3	B,PL,R,PSBM
Mar 03 1984	12.5" 12mm	MB,PL,BNUC,R,BM,CLOSE COMP SW		
Jan 30 1981	12.5" 24mm	PB,PS,DNUC		
H33-4	NGC 1999	Ori	Nebula E	*10,11INV IN NEB
Oct 16 1982	12.5" 24mm	MB,PS,BNUC,VMBM,R,12MM-EYE APPEARANCE,TAPPERED ENDS,SOME DARK AREA IN NEB		
Feb 20 2006	31" 31mmT5	W/OIII,DIF,MB,VL,NEB DETAIL DET AROUND *,R=G		
H33-6	NGC 869	Per	Open Cluster 6.6 I 3 r	CL,VVL,VRI,*7...14
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			
H33-7	NGC 1857	Aur	Open Cluster 11.0 I 3 m	CL,PRI,PC,ST7...
Dec 03 1980	12.5" 24mm	* APROX 7TH MAG IN CLUSTER		
H33-8	NGC 2343	Mon	Open Cluster 8.0 II 2 p n	CL,CL,P,LC
Oct 16 1982	12.5" 24mm	MB,ML,APPROX 15*S,LOOSE,SCATTERED		

Herschel 400 (I) Observations

H33-8	NGC 2343	Mon	Open Cluster 8.0 II 2 p n	CL,CL,P,LC
Oct 16 1982	12.5" 24mm	MB,ML,APPROX 15*S,LOOSE,SCATTERED		
Feb 25 1984	12.5" 24mm	SAME		
H34-1	NGC 5248	Boo	Galaxy SAB(rs)bc	B,L,E150,PSBMRN
May 06 1981	12.5" 24mm	VB,VL,BNUC,DIM HALO		
H34-4	NGC 2022	Ori	Planetary Neb 4+2	PLN,PB,VS,VLE
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		
H34-6	NGC 884	Per	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
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			
H34-8	NGC 2353	Mon	Open Cluster 9.0 III 3 p	CL,L,LC,ONEVB*
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		
H35-1	NGC 4216	Vir	Galaxy SAB(s)b:	VB,VL,VME17,SBMN
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		
H35-6	NGC 136	Cas	Open Cluster 13.0 II 1 p	GCL,VF,S,EC
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		
H36-1	NGC 4550	Vir	Galaxy SB0^: sp	PB,S,VLE,SP OF 2
Jun 04 1981	12.5" 24mm	DIF,PF,PS,ELONG,DARM,NGC 4551 CLOSE BY,PAIR/M89		
H37-2	NGC 4527	Vir	Galaxy SAB(s)bc	PB,L,PME69,MBM
May 03 1981	12.5" 24mm	PB,PL,ELONG,DNUC,FARM,PAIR/4536		
H37-4	NGC 6543	Dra	Planetary Neb 3a+2	PLN,VB,PS,SBMVSN
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			
H37-5	NGC 7000	Cyg	Nebula E	F,EEL,DIF NEBULOSITY
Sep 19 2012	36" 31mmT5	VB,W/OIII,ABLE TO SLEW ENTIRE OUTLINE OF NA NEB,NUMEROUS AREAS OF FINE NEB DETAIL,GULF AND S END OF MEX BEST CONTRAST,NICE D* IN MEX TIP - PINK & BLUEISH,R=EE		
Aug 13 1982	12.5" 32mm	FITS WELL IN EYEPIECE,FIRST TIME SEEN THIS WELL, IMPRESSIVE!!!		
Aug 11 1982	12.5" 32mm	EL,ONLY CERTAIN OUTLINES DET,HUNDREDS OF *S WITH COSTAL LINE EFFECT		
H37-6	NGC 2506	Mon	Open Cluster 11.0 I 2 r	CL,PL,VRI,C,*11...20
Oct 16 1982	12.5" 24mm	MF,ML,SCATTERED 'S AROUND CLUSTER,DENSE CLUSTERING TOWARDS CENTER,APPROX 60*S		

Herschel 400 (I) Observations

H37-6	NGC 2506	Mon	Open Cluster 11.0 I 2 r	CL,PL,VRI,C,*11...20
Oct 16 1982	12.5" 24mm	MF,ML,SCATTERED 'S AROUND CLUSTER,DENSE CLUSTERING TOWARDS CENTER,APPROX 60*'S		
H38-2	NGC 4636	Vir	Galaxy E	B,L,IR,VGVMBM,R
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		
H38-7	NGC 2324	Mon	Open Cluster 12.0 II 2 r	CL,L,RI,CC,ST12...16
Oct 16 1982	12.5" 24mm	VF,ML,APPROX 100*'S,BACKGROUND GLOW,SOME BRT *S IN CLUSTER,WELL PLACED		
Feb 25 1984	12.5" 24mm	SAME		
H38-8	NGC 2422	Pup M47	Open Cluster 5.0 I 3 m	CL,B,VL,PRI,ST L\$S
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			
H39-1	NGC 4697	Vir	Galaxy E6	VB,L,LE45,SMBMN
Mar 27 1982	12.5" 12mm	MB,ML,ELONG,OVAL,F* TO W,GMBM,TAPPERED ENDS		
H39-4	NGC 2438	Pup	Planetary Neb 4+2	PLN,PB,PS,VLE,R
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!!		
H39-7	NGC 1907	Aur	Open Cluster 11.0 I 1 m n	CL,PRI,PC,R,ST9...12
Mar 27 1981	12.5" 24mm			
H40-6	NGC 6171	Oph M107	Globular	GCL,L,VRI,VMC,R,RRR
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			
H40-7	NGC 7128	Cyg	Open Cluster 11.5 I 3 m	CL,S,PRI,HASARUBY*9
Aug 11 1982	12.5" 24mm	MB,PS,5 OR 6 B*'S CIRCLING FAINTER *S,STANDS OUT WELL,APPROX 40 *S		
H41-5	NGC 4244	CVn	Galaxy SA(s)cd: sp	PB,VL,EE43,VGBM
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		
H41-7	NGC 7296	Lac	Open Cluster 10.0 II 2 p	CL,IR,LC,ST VS
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!!		
H42-1	NGC 4995	Vir	Galaxy SAB(rs)b	PB,PL,R,VGPMBM,*8NP

Herschel 400 (I) Observations

H42-1	NGC 4995	Vir	Galaxy SAB(rs)b	PB,PL,R,VGPMBM,*8NP
Feb 12 1983	12.5" 16mm	MB,ML,MOD HISB,UB,NND,PATCHY		
H42-5	NGC 4631	CVn	Galaxy SB(s)d sp	VB,VL,EE70,BMN,*ATTN
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		
H42-6	NGC 6939	Cep	Open Cluster 11.9 II 1 r	CL,PL,ERI,PCM,*11.16
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		
H42-7	NGC 457	Cas	Open Cluster 8.6 II 3 r	CL,B,L,PRI,*7,8,10
Jul 31 1981	12.5" 16mm	B*S,FEW *S APPROX 20.LARGE SCATTERED THROUGHOUT EYEPIECE		
Jul 17 1980	12.5" 24mm			
H43-1	NGC 4594	Vir M104	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
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		
H43-5	NGC 4258	CVn M106	Galaxy Sb	VB,VL,VME0,SBMBN
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,OVAL,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,OVAL,4217 TO W 1 GAL DIA		
H43-7	NGC 7419	Cep	Open Cluster 10.0 I 2 m	CL,PRI,CC
Sep 04 2002	12.5" 32mm	PB,ML,FEW B*S WITH GLOW IN BACKGROUND		
H43-8	NGC 1750	Tau	Open Cluster OCL	CL,ST L,VCSC
Mar 22 2004	12.5" 25mm	VB,EL,FEW BRT *S LOOSLY SCATTERED,NOT WELL PLACED,OTHER CLUSTERS DET,R=F		
H44-1	NGC 6401	Oph	Globular	PB,PL,R,*12F INV
Jun 04 1981	12.5" 24mm	DIF		
H44-2	NGC 3190	Leo	Galaxy SA(s)a pec sp	B,PS,E,PSBMN
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			
H44-5	NGC 2403	Cam	Galaxy Sc	CB,EL,VME,VGMBMN
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		
H44-7	NGC 7510	Cep	Open Cluster 10.0 II 3 r n	CL,PRI,PC,FAN-SH,B*P
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

H44-7	NGC 7510	Cep	Open Cluster 10.0 II 3 r n	CL,PRI,PC,FAN-SH,B*P
Aug 11 1982	12.5" 24mm	MB,VS,B*S RESEMBLE TRI,F*S NW,APPROX 30*S,STANDS OUT WELL		
H45-2	NGC 3193	Leo	Galaxy E2	B,S,VLE,PSLBM,*9NF
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			
H45-4	NGC 2392	Gem	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
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		
H45-5	NGC 3953	UMa	Galaxy SB(r)bc	CB,L,E0,VSBLRN
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		
H45-7	NGC 436	Cas	Open Cluster 10.0 I 2 m	CL,S,IF,PC
Aug 13 1982	12.5" 24mm	MF,MS,20-30 *S,LOOSE,SCATTERED		
H46-5	NGC 3556	UMa M108	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
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		
H46-7	NGC 654	Cas	Open Cluster 10.0 II 2 r	CL,IF,RI,1*6.7,
Jul 31 1981	12.5" 24mm	SMALL,LITTLE DIFFUSENESS SEEN IN CLUSTER,FEW *S		
H47-1	NGC 6712	Sct	Globular	GCL,PB,VL,IRR,RRR
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		
H47-5	NGC 3079	UMa	Galaxy SB(s)c sp	VB,L,ME135
Oct 22 1982	12.5" 16mm	MF,ML,EDGE ON,F*N TIP,F*E SIDE,UB,TAPPERED,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		
H47-7	NGC 1502	Cam	Open Cluster 7.0 I 3 m	CL,PRI,CC,IF

Herschel 400 (I) Observations

H47-7	NGC 1502	Cam	Open Cluster 7.0 I 3 m	CL,PRI,CC,IF
Oct 03 1981	12.5" 24mm	MB,ML,BRT DOUBLE * IN CENTER,APPROX 20*S,NICE IN 24MM		
H48-1	NGC 6356	Oph	Globular	GCL,VB,CL,VGVMBM,RRR
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		
H48-7	NGC 559	Cas	Open Cluster 9.0 I 1 m	CL,B,PL,PRI
Jul 31 1981	12.5" 24mm	FEW B*S, MOSTLY FAINTER *S APPROX 10-11 MAG,APPROX 50*S IN ALL		
H49-7	NGC 637	Cas	Open Cluster 8.0 I 2 m	CL,PS,B\$VF ST
Jul 31 1981	12.5" 24mm	SMALL IN SOMEWHAT BARREN * FIELD,FEW F*S SEEN		
H50-2	NGC 3607	Leo	Galaxy SA(s)0^:	VB,L,R,VMBM,2ND OF 3
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		
H50-4	NGC 6229	Her	Globular	GCL,VB,L,R,DISC,R
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		
H51-2	NGC 3608	Leo	Galaxy E2	B,PL,R,PSBM,3RD OF 3
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		
H51-4	NGC 6818	Sgr	Planetary Neb 4	PLN,B,VS,R
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			
H51-7	NGC 7062	Cyg	Open Cluster 10.1 II 2 m	CL,PS,PRI,PC,ST13...
Aug 11 1982	12.5" 24mm	MB,ML,UNIFORM DIST,FEW B*S WITH F*S,R,APPROX 50*S		
H52-1	NGC 7006	Del	Globular	B,PL,R,GBM
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		
H52-2	NGC 3626	Leo	Galaxy S0-a	B,S,VLE,SBM
Mar 03 1984	12.5" 12mm	MB,PS,BNUC,R,BM		
Jan 30 1981	12.5" 24mm	VB,PS,BNUC,PAIR/M65/M66/3628		
H52-5	NGC 3359	UMa	Galaxy SB(rs)c	PB,L,E0,GLBM
Mar 15 1985	12.5" 16mm	OVAL,PATCH,UB,STELL NUC DET		
Mar 15 1985	12.5" 24mm	DIF,MF,PL,LARGE DISFUSE PATCH IN BARREN AREA		
H53-1	NGC 7331	Peg	Galaxy SA(s)b	B,PL,PME163,SMBM

Herschel 400 (I) Observations

H53-1	NGC 7331	Peg	Galaxy SA(s)b	B,PL,PME163,SMBM
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		
H53-4	NGC 1501	Cam	Planetary Neb 3	PLN,PB,PS,VLE,1'DIAM
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		
H53-7	NGC 7209	Lac	Open Cluster 9.0 III 1 m	CL,L,CRI,PC,ST9...12
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		
H54-4	NGC 4143	CVn	Galaxy SAB(s)0^	CB,R,VG,VSBMN
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		
H55-1	NGC 7479	Peg	Galaxy SB(s)c	PB,CL,ME12,BET2ST
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		
H55-2	NGC 4394	Com	Galaxy (R)SB(r)b	PB,LE,BM
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		
H55-7	NGC 7762	Cep	Open Cluster 11.0 II 2 m	CL,PRI,PC,*11...15
Jul 09 1983	12.5" 24mm	MF,ML,DOESNOT STAND OUT WELL,LOOSE		
H56-1	NGC 2903	Leo	Galaxy SAB(rs)b	CB,VL,E,GMBM,R,SPOF2
Oct 31 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
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		

Herschel 400 (I) Observations

H56-1	NGC 2903	Leo	Galaxy SAB(rs)bc	CB,VL,E,GMBM,R,SPOF2
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		
H56-2	NGC 4450	Com	Galaxy SA(s)ab	B,L,R,GVMBM*,R,B*SP
Mar 16 2010	31" 17mmT4	VB,VL,ELONG,SMALL BNUC,SBM,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		
H56-4	NGC 4051	UMa	Galaxy SAB(rs)bc	B,VL,E,VGVSMBM*11
Feb 12 1983	12.5" 16mm	MB,PL,FAINT NUC,F*W EDGE,BRT * E,STELL NUC,KNTS SUSP,FACE ON,OVAL		
H56-7	NGC 7790	Cas	Open Cluster 10.0 II 2 m	CL,PRI,PC
Jul 31 1981	12.5" 24mm	FEW *S,SCATTERED IN FIELD *S		
H56-8	NGC 6910	Cyg	Open Cluster 9.6 I 3 m n	CL,PB,PS,P,PC,*20.12
Aug 13 1982	12.5" 24mm	VERY LOOSE,APPROX 20 *S,PB,PL		
H57-7	NGC 2192	Aur	Open Cluster 14.0 II 2 m	CL,CL,C,IF,ST VS
Oct 20 2006	31" 17mmT4	VB,VL,APPROX 50*S SIMILAR MAG,FEW BRTER *S,WELL PLACED,CLUSTERING GOOD,R=G		
H58-4	NGC 40	Cep	Planetary Neb 3b+3	F,VS,R,VSMBM,*12SP
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		
H58-7	NGC 2479	Pup	Open Cluster III 1 m	CL,PL,PRI,PC,ST S
Oct 16 1982	12.5" 24mm	MF,VL,40-50*S,SCATTERED,APPROX SAME MAG		
H58-8	NGC 6997	Cyg	Open Cluster III 2 m n	CL,P,LC,ST L
Sep 04 2002	12.5" 32mm	VB,EL,APPROX 40*S VARYING IN BRIGHTNESS,WELL PLACED IN 32MM		
H59-7	NGC 6866	Cyg	Open Cluster 10.0 II 2 r	CL,L,VRI,CC
Jun 06 1981	12.5" 16mm	MB,MS		
H59-8	NGC 1664	Aur	Open Cluster 10.0 III 1 p	CL,LRI,LC,PL
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		
H60-4	NGC 3310	UMa	Galaxy SAB(r)bc pec	CB,PL,R,VG,VSMBMN
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			
H60-7	NGC 1513	Per	Open Cluster 11.0 II 1 m	CL,L,VRI,PC,ST VL
Sep 03 1980	12.5" 24mm			
Oct 03 1981	12.5" 24mm	MB,ML,APPROX 40*S,DARK PATCH IN CENTER,U SHAPED		
H60-8	NGC 2311	Mon	Open Cluster 12.0 III 2 m	CL,LC,NOT RI
Oct 16 1982	12.5" 24mm	MF,ML,APPROX 40*S SAME MAG,R		
H61-1	NGC 2974	Sex	Galaxy E4	B,CS,IR,BM,*9SP43"
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		
H61-4	NGC 3992	UMa M109	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
Sep 18 1980	12.5" 24mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		

Herschel 400 (I) Observations

H61-4	NGC 3992	UMa M109	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
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	
H61-7	NGC 1528	Per	Open Cluster 10.0 II 2 m	CL,B,VRI,CC
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		
H61-8	NGC 1778	Aur	Open Cluster 10.1 III 2 p	CL,PC,LRI,IF,ST L
Sep 06 2002	12.5"	24mm	PB,ML,APPROX 20*S,LOOSLY SCATTERED,*S SIMILAR MAG	
H62-4	NGC 3982	UMa	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
Feb 12 1983	12.5"	16mm	MB,MS,DNUC,R,SBM,SAME 24MM FIELD WITH 3998	
H62-7	NGC 6756	Aql	Open Cluster 13.0 I 1 m	CL,S,RI,LC,*11...12
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	
H63-1	NGC 1052	Cet	Galaxy E4	B,PL,R,MBM*12
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		
H64-1	NGC 1084	Eri	Galaxy SA(s)c	VB,PL,E,GPMBM
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	
H64-4	NGC 2440	Pup	Planetary Neb 5+3	PLN,CB,NOT VWELL DEF
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	
H64-8	NGC 381	Cas	Open Cluster 10.0 III 1 m	CL,PC
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	
H65-1	NGC 4361	Crv	Planetary Neb 3a+2	VB,L,R,VSMBMN,R
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	
H65-2	NGC 4429	Vir	Galaxy SA(r)0+	B,L,CE,PSBM,*10NF
Apr 25 1981	12.5"	24mm	DIF,PB,PL,FNUC,DARM	
H65-8	NGC 659	Cas	Open Cluster 10.0 I 2 m	CL,LRI,ST B
Aug 13 1982	12.5"	24mm	MF,MS,SCATTERED,APPEARS TO BE BROKEN IN CENTER,CLOSE TO 663	
H66-7	NGC 7142	Cep	Open Cluster 11.0 I 2 r	CL,CL,CRI,PC,*11..14
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	
H66-8	NGC 1027	Cas	Open Cluster 9.0 II 3 m n	CL,L,SC ST,ONE10M
Aug 13 1982	12.5"	24mm	VB,VL,BRT * IN CLUSTER,15*S	
H67-1	NGC 3962	Crt	Galaxy E1	CB,PL,IR,GMBM,TRI2*
Feb 12 1983	12.5"	16mm	MB,VS,BNUC,R,HISB,BM	
H67-7	NGC 2421	Pup	Open Cluster 11.0 I 2 r	CL,L,CRI,*11...13
Oct 16 1982	12.5"	24mm	MF,ML,LOOSE AND SCATTERED,APPROX 30*S SAME MAG	

Herschel 400 (I) Observations

H67-7	NGC 2421	Pup	Open Cluster 11.0 I 2 r	CL,L,CRI,*11...13
Oct 16 1982	12.5" 24mm	MF,ML,LOOSE AND SCATTERED,APPROX 30"*S SAME MAG		
Dec 03 1980	12.5" 24mm			
H67-8	NGC 7160	Cep	Open Cluster 7.0 I 3 p	CL,P,VLC
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		
H68-1	NGC 4856	Vir	Galaxy SB(s)0/a	B,R,PSMBM,*13NP
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,R,BM,VF* ON N EDGE		
H68-4	NGC 2950	UMa	Galaxy (R)SB(r)0^A	B,PS,R,VGVMBMN
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		
H68-8	NGC 2126	Aur	Open Cluster 13.0 III 2 m	CL,NOT RI,*7M NORTH
Aug 21 1982	12.5" 24mm	MF,PL,B* IN CLUSTER,TRI SHAPE,APPROX 20-30"*S,NICE IN 24MM		
H69-8	NGC 7686	And	Open Cluster 7.0 III 2 p	CL,P,LC,*7...11
Sep 10 1980	12.5" 24mm	SAME		
Aug 31 1984	12.5" 24mm	MB,PL,B ORANGE * IN CENTER,LOOSE,LITTLE CLUSTERING EFFECT,APPROX 40"*S		
Aug 11 1982	12.5" 24mm			
H70-1	NGC 5634	Vir	Globular	GCL,VB,CL,R,GBM,RRR
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		
H71-2	NGC 4660	Vir	Galaxy E:	VB,S,VSVMBMN
Jun 04 1981	12.5" 24mm	PF,PS,DNUC,DIM HALO,PAIR/M59		
H71-8	NGC 2281	Aur	Open Cluster 8.0 I 3 m	CL,PRI,VLC,ST PL
Oct 16 1982	12.5" 24mm	MB,VL,APPROX 30"*S,STANDS OUT WELL,HOUR GLASS SHAPE,LOOSE		
H72-8	NGC 6633	Oph	Open Cluster 8.0 III 2 m	CL,LC,ST L
Jun 04 1981	12.5" 32mm	EB,EL		
H73-1	NGC 4150	Com	Galaxy SA(r)0^?	B,S,R,PGMBM
Feb 27 1982	12.5" 16mm	MF,MS,BNUC,GMBM,R		
H73-4	NGC 6826	Cyg	Planetary Neb 3a+2	PLN,B,PL,R,*11M
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		
H74-1	NGC 4245	Com	Galaxy SB(r)0/a:	CB,PL,VLE,SMBM,R
Feb 27 1982	12.5" 16mm	MB,ML,BNUC,R,SMALL NUC		
H74-4	NGC 7023	Cep	Nebula R	*7IN EF,EL,NEBY
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		
H75-1	NGC 4274	Com	Galaxy (R)SB(r)ab	VB,VL,E90,MBMN
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		
H75-2	NGC 4762	Vir	Galaxy SB(r)0^? sp	PB,VME31,3B*S,F OF 2

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H75-2	NGC 4762	Vir	Galaxy SB(r)0⁺? sp	PB,VME31,3B*S,F OF 2
Feb 12 1983	12.5" 16mm	MB,MS,3B*S OFF TO A SIDE,APPEARS LIKE M104,PAIR/4754		
H75-8	NGC 7243	Lac	Open Cluster 8.0 II 2 m	CL,L,P,LC,ST VL
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		
H76-1	NGC 4314	Com	Galaxy SB(rs)a	CB,L,E150,SBM,*NP
Feb 12 1983	12.5" 24mm	PB,ML,EDGE ON,BNUC,F*N TIP,BM,TAPPERED		
H76-4	NGC 6946	Cep	Galaxy SAB(rs)cd	VF,VL,VG,VSMB,RR
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		
H77-1	NGC 4414	Com	Galaxy SA(rs)c?	VB,L,E,G,VSBM*
Feb 12 1983	12.5" 16mm	VB,ML,BNUC,BM,DIF HALO,SLIGHTLY ELONG,NO *S ON EDGE LIKE PHOTO		
H77-8	NGC 7380	Cep	Open Cluster 10.0 III 2 m n	CL,PL,PRI,LC,*9...13
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		
H78-1	NGC 2985	UMa	Galaxy (R')SA(rs)ab	VB,CL,R,PSMBM,*INV F
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		
H78-8	NGC 225	Cas	Open Cluster 9.3 III 1 p n	CL,L,LC,*9...10
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		
H79-1	NGC 3147	Dra	Galaxy SA(rs)bc	VB,L,R,VGVSVMBM
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		
H79-4	NGC 3034	UMa M82	Galaxy I0 sp	VB,VL,VME(RAY)
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 DATE,R=E		
Dec 03 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			

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H79-4	NGC 3034	UMa M82	Galaxy I0 sp	VB,VL,VME(RAY)
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	
H79-8	NGC 129	Cas	Open Cluster 11.0 III 2 m	CL,VL,PR,LC,*9...13
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	
H80-8	NGC 1444	Per	Open Cluster 6.8 IV 1 p	CL OF AB30*12...14
Sep 03 1980	12.5"	24mm	POOR	
Oct 03 1981	12.5"	24mm	MF,VS,SURROUNDS B DOUBLE *,APPROX 10"S,SMALL	
H81-1	NGC 3344	LMi	Galaxy (R)SAB(r)bc	CB,L,GBM,*INV,2ST F
Dec 03 1980	12.5"	24mm	BNUC,2F*S ON EDGE	
H82-1	NGC 3900	Leo	Galaxy SA(r)0+	B,PL,VLE0,BMN
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	
H83-1	NGC 4494	Com	Galaxy E1-2	VB,PL,R,VSMBMN
Feb 12 1983	12.5"	16mm	VB,VL,BNUC,R,BM	
H85-8	NGC 1545	Per	Open Cluster 9.0 IV 2 p	CL,PRI,LC,ST L
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	
H86-1	NGC 3245	LMi	Galaxy SA(r)0^:?	VB,PL,E0, SMBMEN
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		
H86-2	NGC 4350	Com	Galaxy SA0 sp	CB,VS,ME,VSBM
Mar 27 1981	12.5"	24mm		
Feb 12 1983	12.5"	24mm	MB,PS,BNUC,SBM,OVAL,CLOSE PAIR/4340	
H87-1	NGC 3486	LMi	Galaxy SAB(r)c	CB,CL,R,GMBM
Oct 22 1982	12.5"	24mm	MF,MS,VDIF,PATCH,SBM	
Dec 03 1980	12.5"	24mm		
H88-1	NGC 3504	LMi	Galaxy (R)SAB(s)ab	B,L,E,MBMN,RR,P OF 2
Oct 22 1982	12.5"	16mm	MB,MS,DNUC,LOC IN BARREN AREA,OVAL,SMBM	
Dec 03 1980	12.5"	24mm		
H88-8	NGC 1342	Per	Open Cluster 8.0 III 2 m	CL,VL,AB60*
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	
H89-1	NGC 4251	Com	Galaxy SB0? sp	VB,S,E,VSVMBMN,*F90S
Feb 27 1982	12.5"	16mm	ELONG,BNUC,GMBM	
H90-1	NGC 4278	Com	Galaxy E1-2	VB,PL,R,MBM,R,1STOF3
Feb 12 1983	12.5"	16mm	MB,ML,BNUC,R,VMBM,COMP TO E = 4283	
H91-1	NGC 4448	Com	Galaxy SB(r)ab	B,L,E90,SBM
Feb 12 1983	12.5"	16mm	MF,MS,FNUC,SLIGHTLY ELONG,MOD HISB,SBM	
H92-1	NGC 4559	Com	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Feb 12 1983	12.5"	24mm	VB,VL,3F*S IN S EDGE,SLIGHTLY ELONG,HISB,NND	
H94-1	NGC 3813	UMa	Galaxy SA(rs)b:	CB,PL,PME90,BM
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	
H95-1	NGC 4214	CVn	Galaxy IBm	CB,CL,IE,BIN

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H95-1	NGC 4214	CVn	Galaxy IBm	CB,CL,IE,BIN
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	
H96-1	NGC 5005	CVn	Galaxy SAB(rs)bc	VB,VL,VME66,VSMBN
Jan 28 1982	12.5" 16mm		MB,ML,BNUC,SLENDER SHAPE,DIF HALO	
H97-1	NGC 5033	CVn	Galaxy SA(s)c	VB,PL,E167,SMBMVBN
Jan 28 1982	12.5" 16mm		PF,PS,BNUC,F* IN NW TIP,MUCH BM	
H98-1	NGC 5273	CVn	Galaxy SA(s)0^	CB,PL,R,G,PSMBM
Jan 28 1982	12.5" 16mm		DIF,MF,MS,R,SMALL DIM NUC,DIF HALO,PAIR/5276	
H99-1	NGC 5557	Boo	Galaxy E1	CB,S,R,VSBM*
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	
H99-2	NGC 3377	Leo	Galaxy E5-6	VB,CL,LE,SVMBMBN
Jan 30 1981	12.5" 24mm		PB,PL,BNUC,PAIR/3367	
Feb 25 1984	12.5" 12mm		MB,PS,PATCHY,UB IN MIDDLE,R	
H100-1	NGC 584	Cet	Galaxy E4	VB,PL,R,MBM,P OF 2
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!!	
H101-1	NGC 779	Cet	Galaxy SAB(r)b	CB,L,ME162,MBM
Sep 27 1981	12.5" 16mm		MB,ML,VERY EDGE ON,FNUC,CENTRAL BULGE,DUST PATCHES,KNTY STR SUSP,GBM	
Sep 18 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm		ELONG	
H101-2	NGC 3489	Leo	Galaxy SAB(rs)0+	VB,PL,LE80,SMBMN
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	
H102-1	NGC 1022	Cet	Galaxy (R')SB(s)a	CB,PL,R,MBM,*11NF 2'
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	
H103-1	NGC 6934	Del	Globular	GCL,B,L,R,RRR,*16...
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	
H104-1	NGC 7606	Aqr	Galaxy SA(s)b	PF,CL,PME0
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	
H105-1	NGC 720	Cet	Galaxy E5	CB,PL,LE,PSMBM
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			
H107-1	NGC 1407	Eri	Galaxy E0	VB,L,R,SVMBMN
Sep 09 1980	12.5" 24mm			

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H107-1	NGC 1407	Eri	Galaxy E0	VB,L,R,SVMBMN
Sep 09 1980	12.5"	24mm		
Oct 31 1980	12.5"	24mm	PAIR/1400	
Oct 24 1981	12.5"	12mm	MB,ML,B NUC,R,PAIR/1400	
H110-1	NGC 7723	Aqr	Galaxy SB(r)b	CB,CL,E,GMBM,R
Sep 09 1980	12.5"	24mm		
Jul 10 1981	12.5"	16mm	DIF,MBM,FNUC,MB,ML,FAINT ARMS	
H111-1	NGC 7727	Aqr	Galaxy SAB(s)a pec	PB,PL,IR,MBM
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	
H112-1	NGC 772	Ari	Galaxy SA(s)b	B,CL,R,GBM,R
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	
H113-2	NGC 4419	Com	Galaxy SB(s)a sp	B,PME135,SBM
Mar 27 1981	12.5"	24mm		
Feb 12 1983	12.5"	16mm	MB,PS,EDGE ON,FNUC,SBM,TAPPED	
H114-1	NGC 2964	Leo	Galaxy SAB(r)bc:	B,VL,LE,VGBM,SP OF 3
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		
H114-2	NGC 4473	Com	Galaxy E5	PB
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	
H115-2	NGC 4477	Com	Galaxy SB(s)0:?	PB,CL
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	
H116-1	NGC 3395	LMI	Galaxy SAB(rs)cd pec:	CB,PS,ILE,1ST OF 2
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	
Dec 03 1980	12.5"	24mm	PAIR/3396	
H120-2	NGC 4548	Com M91	Galaxy SB(rs)b	B,L,LE,LBM
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 02 1984	10"	20mm	SAME	

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H120-2	NGC 4548	Com M91	Galaxy SB(rs)b	B,L,LE,LBM
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	
H121-1	NGC 4030	Vir	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR
Apr 25 1981	12.5"	24mm	VB,VL,BNUC,BRT HALO	
H124-2	NGC 4478	Vir	Galaxy E2	PB,S,R,PSBM,2ND OF 3
May 01 1981	12.5"	24mm	PF,PS,ELONG,FNUC,FARM,PAIR/4476/M87	
H126-1	NGC 5746	Vir	Galaxy SAB(rs)b? sp	B,L,VME170,BMBN
Jun 11 1983	12.5"	20mm	MB,PL,EDGE ON,DUST LANE SUSP,BRT NUC BULGE,TAPPERED ENDS,MINATURE 4565	
H126-2	NGC 4654	Vir	Galaxy SAB(rs)cd	F,VL,PME,(D),3*NR
Mar 27 1982	12.5"	12mm	DIF,MB,PL,2F*S TO N,B* TO W,STELL NUC,OVAL,UB,MOD HISB	
H128-1	NGC 5846	Vir	Galaxy E0-1	VB,PL,R,PSBMN,F*INVS
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	
H128-2	NGC 4689	Com	Galaxy SA(rs)bc	PB,VL,E,VGLBM,R
Mar 27 1982	12.5"	12mm	EDIF,MF,PL,R,2F*S N,NND,UB,SOME STR SUSP	
H129-1	NGC 4699	Vir	Galaxy SAB(rs)b	VB,R,VMBMRN,R
Mar 27 1982	12.5"	12mm	MB,MS,BNUC,R,SBM,F*S SEVERAL GAL DIA	
H130-1	NGC 4958	Vir	Galaxy SB(r)0? sp	VB,PS,E,BMBN
Feb 12 1983	12.5"	16mm	MF,PS,BNUC,F* OFF TO W,TAPPERED,SBM	
H134-1	NGC 4781	Vir	Galaxy SB(rs)d	CB,VL,ME
Feb 12 1983	12.5"	24mm	DIF,MF,ML,3 OR 4 F*S GOING OFF TO THE W,NND,UB,OVAL	
H137-1	NGC 2859	LMi	Galaxy (R)SB(r)0+	VB,PL,R,SMBM
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		
H139-1	NGC 4303	Vir M61	Galaxy SAB(rs)bc	VB,VL,VSBM*,BIN
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 OUTER 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	
H139-2	NGC 4261	Vir	Galaxy E2-3	PB,PS,R,GBM
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	
H142-1	NGC 4664	Vir	Galaxy SB(s)0/a	PB,2S*IN M,(=4665)
Mar 27 1982	12.5"	12mm	MB,MS,BNUC,F* TOWARDS S TIP,B* TO W,VMBM,OVAL	
H143-1	NGC 4900	Vir	Galaxy SB(rs)c	CB,CE,*10ATT POS135
Feb 12 1983	12.5"	16mm	MB,ML,F* IN E EDGE,MOD HISB,UB,OVAL	
H144-1	NGC 5566	Vir	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'

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H144-1	NGC 5566	Vir	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
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		
H146-1	NGC 5576	Vir	Galaxy E3	B,S,R,VSBM,F OF 2
Jun 11 1983	12.5" 20mm	PB,ML,BNUC,CLOSE COMP TO W 1 GAL DIA,F*N 1 GAL DIA,R-OVAL,SMBM,PAIR/5566		
H149-1	NGC 6342	Oph	Globular	CB,PS,LE,ER
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		
H151-1	NGC 524	Psc	Galaxy SA(rs)0+	VB,PL,MBM,4S*NR
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			
H153-1	NGC 908	Cet	Galaxy SA(s)c	CB,VL,E
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		
H156-1	NGC 1023	Per	Galaxy SB(rs)0-	VB,VL,VME,VVMBM
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		
H156-2	NGC 4442	Vir	Galaxy SB(s)0^	VB,PL,R,SMBM
May 01 1981	12.5" 24mm	PB,PS,BNUC,FARM		
H157-1	NGC 672	Tri	Galaxy SB(s)cd	F,PL,ME80
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		
Aug 22 1980	12.5" 24mm			
H159-1	NGC 278	Cas	Galaxy SAB(rs)b	CB,PL,R,2*10NR
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			

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H159-1	NGC 278	Cas	Galaxy SAB(rs)b	CB,PL,R,2*10NR
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		
H160-1	NGC 4546	Vir	Galaxy SB(s)0-:	VB,CL,PME78,VSMBMN
Feb 12 1983	12.5"	16mm	MB,PS,BNUC,F*E SEVERAL GAL DIA,TAPPERED ENDS	
H160-2	NGC 3686	Leo	Galaxy SB(s)b	PB,L,VLE,VGBM,R
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	
H161-1	NGC 4459	Com	Galaxy SA(r)0+	PB,PL,IR,BM,R,*8SF2'
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*	
H162-1	NGC 4866	Vir	Galaxy SA(r)0+: sp	B,PL,ME90,SBMN,S*INV
Feb 12 1983	12.5"	16mm	DIF,MF,PS,EDGE ON,FNUC,F* IN W TIP,SMALL STELL NUC,SLIGHTLY TAPPERED	
H163-1	NGC 3115	Sex	Galaxy S0- sp	VB,L,VME46,VGSMBMEN
Mar 27 1982	12.5"	16mm	MB,ML,EDGE ON,BNUC,F HALO,F*S BORDER,F* FARTHER SW,CENTRAL BULGE	
H164-1	NGC 3294	LMi	Galaxy SA(s)c	CB,L,ME135,GLBM
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		
H165-1	NGC 4151	CVn	Galaxy (R')SAB(rs)ab:	VB,S,R,VSMBMBN,P OF2
Jan 26 1982	12.5"	16mm	DIF,MB,PS,BNUC,*NW SIDE,VMBM,R HALO AROUND NUC	
Feb 25 2004	31"	17mmT4	VB,VL,OVAL,SMALL VERY BNUC,2*S IN ARMS,HISB MIDDLE,GMBM,LARGE AREA OF ARMS,R=E	
H167-1	NGC 2782	Lyn	Galaxy SAB(rs)a pec	CB,R,MBMBN
Oct 16 1982	12.5"	24mm	DIF,MF,MS,DNUC,2F*S OFF TO S,SBM,STELL NUC,16MM-SAME	
H168-1	NGC 3184	UMa	Galaxy SBc	PB,VL,R,VGBM
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	
H172-1	NGC 3432	LMi	Galaxy SB(s)m sp	PB,PL,VME40,**NR SP
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	
H173-1	NGC 3941	UMa	Galaxy SB(s)0^	VB,PL,R,SMBM*9
Mar 15 1985	12.5"	12mm	PB,ML,BNUC,R,BM,HISB	
Feb 12 1983	12.5"	16mm	PB,MS,ELONG,VERY BRIGHT NUC,LOOKS LIKE AN E6 GAL	
H175-1	NGC 4203	Com	Galaxy SAB0-:	VB,S,R,PSMBM
Feb 27 1982	12.5"	16mm	MB,PS,BNUC,R,GBM	
H176-1	NGC 4656	CVn	Galaxy SB(s)m pec	PB,L,VME34,SP OF 2
Jan 28 1982	12.5"	16mm	MF,PL,EDGE ON,*S AROUND N TIP,S ARM SLIGHTLY BULKIER AND BIGGER,MOD HISB	
H177-2	NGC 5600	Boo	Galaxy Sc pec	PB,PS,GBM
May 06 1981	12.5"	24mm	DIF,MB,PS,NND,BRT HALO	

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H177-2	NGC 5600	Boo	Galaxy Sc pec	PB,PS,GBM
May 06 1981	12.5" 24mm	DIF,MB,PS,NND,BRT HALO		
H178-1	NGC 4618	CVn	Galaxy SB(rs)m	B,L,E,MBM,CVDBRANCHN
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		
H186-1	NGC 5195	CVn	Galaxy I0 pec	B,PS,LE,VGBM,INV-M51
Mar 16 2010	31" 17mmT4	VB,VL,OVAL,SMALL VERY BNUC,HISB MIDDLE,SUDDENLY MBM,COMP=M51,SPIRAL ARMS,BRIDGE CONNECTS TO M51,FAINT BAR ACROSS NUC,R=E		
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			
H188-1	NGC 5689	Boo	Galaxy SB(s)0/a:	CB,PL,E87,PSMBM
May 06 1981	12.5" 24mm	PB,VS,BNUC		
H189-1	NGC 5676	Boo	Galaxy SA(rs)bc	B,L,E45,PGBM,R
May 06 1981	12.5" 24mm	VB,VL,BNUC,BRT HALO		
Jul 14 1980	12.5" 24mm	GET B* OUT OF FOV TO SEE		
H192-1	NGC 7008	Cyg	Planetary Neb 3	CB,L,E45,R,**ATT
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		
H193-1	NGC 650	Per M76	Planetary Neb 3+6	VB,P OF DNEB
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			
H194-1	NGC 3675	UMa	Galaxy SA(s)b	VB,CL,VME0,VSMBMN
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		
H195-1	NGC 4111	CVn	Galaxy SA(r)0+: sp	VB,PS,ME151
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		
H195-2	NGC 6287	Oph	Globular	GCL,CB,L,R,GPMCM,RRR
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		
H196-1	NGC 4138	CVn	Galaxy SA(r)0+	B,PL,E,VGBM,*NP
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		

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H196-1	NGC 4138	CVn	Galaxy SA(r)0+	B,PL,E,VGBM,*NP
Feb 25 2004	31"	17mmT4	VB,PL,OVAL,SMALL BNUC,SHISB,SPR STR SUSP,HISB MIDDLE,GMBM,R=E	
H197-1	NGC 4485	CVn	Galaxy IB(s)m pec	B,PS,IR,NP OF 2
Mar 27 1981	12.5"	24mm		
Jan 28 1982	12.5"	16mm	EDIF,PF,PS,EDGE ON,UB,INTERACTING WITH 4490	
H198-1	NGC 4490	CVn	Galaxy SB(s)d pec	VB,VL,ME130,R,SF OF2
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	
H199-1	NGC 3198	UMa	Galaxy SB(rs)c	PB,VL,ME45,VGBM
Oct 22 1982	12.5"	16mm	DIF,MF,PL,EDGE ON,F*NW EDGE,UB,NND,TAPPERED TOWARDS ENDS	
Mar 15 1985	12.5"	16mm	SAME	
Dec 03 1980	12.5"	24mm		
H199-2	NGC 6517	Oph	Globular	PB,PL,R,RR
Jun 04 1981	12.5"	24mm	DIF,PF,PS	
H200-1	NGC 2683	Lyn	Galaxy SA(rs)b	VB,VL,VME39,GMBM
Oct 16 1982	12.5"	16mm	MB,ML,EDGE ON,FNUC,F* IN N TIP,B* OFF TO E,DUST LANES SUSP,TAPPERED ENDS,HISB	
H201-1	NGC 3877	UMa	Galaxy SA(s)c:	B,L,ME37
Mar 15 1985	12.5"	16mm	SAME,PB,ML	
Feb 12 1983	12.5"	16mm	MB,PL,EDGE ON,KNTS DET,DUST LANES	
H202-1	NGC 3949	UMa	Galaxy SA(s)bc:	CB,PL,PME,VGBM
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	
H203-1	NGC 3938	UMa	Galaxy SA(s)c	B,VL,R,BMPBN,ER
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	
H205-1	NGC 2841	UMa	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
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	
H206-1	NGC 4088	UMa	Galaxy SAB(rs)bc	B,CL,E55,LBM
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	
H207-2	NGC 7217	Peg	Galaxy (R)SA(r)ab	B,PL,GBM,ER
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		
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	
H210-1	NGC 4346	CVn	Galaxy S0 sp	VF,S,ME100,VSMBMBN
Mar 27 1981	12.5"	24mm		
Jan 26 1982	12.5"	16mm	DIF,MF,VS,DIM NUC,OVAL,VMBM	
H211-1	NGC 4800	CVn	Galaxy SA(rs)b	PB,CS,R,PSBM,*14P

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H211-1	NGC 4800	CVn	Galaxy SA(rs)b	PB,CS,R,PSBM,*14P
Jan 28 1982	12.5" 16mm	DIF,MF,PS,FNUC,* ON W SIDE,OVAL,MOD BM		
H213-1	NGC 4449	CVn	Galaxy IBm	VB,CL,ME,DORBIFID,*F
Jan 28 1982	12.5" 16mm	DIF,PB,PL,ELONG,FNUC,F* IN W EDGE NEAR NUC,HISB,GMBM,F* FARTHER W		
Jan 28 1982	12.5" 7mm	STELL NUC,ANOTHER F* JUST W OF NUC		
H214-1	NGC 5474	UMa	Galaxy S(c)	PB,L,BM
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		
H215-1	NGC 5866	Dra M102	Galaxy SA0+ sp	VB,CL,PME146,GBM
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		
H216-1	NGC 2787	UMa	Galaxy SB(r)0+	B,PL,LE90,MBM,R,*INV
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		
H217-1	NGC 1579	Per	Nebula R	PB,VL,IR,MBM,*8 2'NF
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		
H218-1	NGC 2419	Lyn	Globular	PB,PL,LE90,VGBM,*4'F
Oct 16 1982	12.5" 16mm	MF,PL,R,UB,SBM,2 B*S POINT TO IT,COUPLE OF F*S SCATTERED AROUND OBJECT		
H219-1	NGC 3665	Leo	Galaxy SA(s)0^	CB,CL,IR,PGMBM
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		
H221-1	NGC 3718	UMa	Galaxy SB(s)a pec	PB,VL,R,VGLBM
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		
H222-1	NGC 3729	UMa	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
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		
H223-1	NGC 4026	UMa	Galaxy S0 sp	VB,CL,ME176,VSVMBMBN
Feb 12 1983	12.5" 16mm	MB,PS,EDGE ON,DUST LANE SUSP,VBM,CENTRAL BULGE		
H224-1	NGC 4085	UMa	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
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		

Herschel 400 (I) Observations

H224-1	NGC 4085	UMa	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
Feb 12 1983	12.5" 24mm	DIF,PF,ML,EDGE ON,UB,NND,PAIR/4088		
H224-2	NGC 404	And	Galaxy SA(s)0-:	PB,CL,R,GBM,
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			
H225-1	NGC 4102	UMa	Galaxy SAB(s)b?	B,PS,R,BMBN,*12SPVNR
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		
H226-1	NGC 3631	UMa	Galaxy SA(s)c	PB,L,R,SVMBMRN
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		
H228-1	NGC 3898	UMa	Galaxy SA(s)ab	B,PL,LE,SVMBM
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		
H229-1	NGC 3998	UMa	Galaxy SA(r)0^?	CB,PS,R,VG,SMBM
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		
H231-1	NGC 5473	UMa	Galaxy SAB(s)0-:	PB,S,R,GBM
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)		
H233-2	NGC 7332	Peg	Galaxy S0 pec sp	CB,S,ME156,SMBMN,P-2
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		
H236-1	NGC 5631	UMa	Galaxy SA(s)0^	B,S,R,PSBMN
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		
H240-2	NGC 7814	Peg	Galaxy SA(s)ab: sp	CB,CL,E,VGBM
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		
H242-1	NGC 2681	UMa	Galaxy (R')SAB(rs)0/a	VB,VL,VG,VSMBM*10
Oct 16 1982	12.5" 16mm	MB,MS,R,GMBM,BNUC,2F**S W,1F* E		

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H242-1	NGC 2681	UMa	Galaxy (R')SAB(rs)0/a	VB,VL,VG,VSMBM*10
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			
H244-1	NGC 3619	UMa	Galaxy (R)SA(s)0+:	CB,CL,R,VGMBM
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		
H245-1	NGC 3642	UMa	Galaxy SA(r)bc:	PB,PL,R,VGBM
Mar 15 1985	12.5" 16mm	DIF,PF,PS,OVAL-PATCHY,SBM		
H247-2	NGC 7177	Peg	Galaxy SAB(r)b	PB,PS,R,BMN,R,*SP
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		
H249-1	NGC 2742	UMa	Galaxy SA(s)c:	CB,CL,E90,ER
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		
H250-1	NGC 2768	UMa	Galaxy E6:	CB,CL,LE,PSBMLBN
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			
H251-1	NGC 3945	UMa	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
Mar 15 1985	12.5" 12mm	PB,MS,BNUC,3F*S SURROUND OBJECT,R,VMBM,HISB MIDDLE		
Feb 12 1983	12.5" 16mm	MB,PS,BNUC,2F*S N,1*W,HISB,R,SBM		
H251-2	NGC 7448	Peg	Galaxy SA(rs)bc	PB,L,E173,VGBM,*F2'
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		
H252-1	NGC 4041	UMa	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN
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		
H252-3	NGC 488	Psc	Galaxy SA(r)b	PB,L,R,SVMBM,*8F10'
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			
H253-1	NGC 4036	UMa	Galaxy S0-	VB,VL,E
Mar 06 2003	12.5" 9mmT6	VB,VL,BNUC,VBM,LARGE BRT NUC,HISB MIDDLE,TAPPERED ENDS,R=E		
Feb 12 1983	12.5" 16mm	MB,PL,EDGE ON,BNUC,CENTRAL BULGE,DUST LANE SUSP,BM,PAIR/4041		

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H253-1	NGC 4036	UMa	Galaxy S0-	VB,VL,E
Feb 12 1983	12.5" 16mm	MB,PL,EDGE ON,BNUC,CENTRAL BULGE,DUST LANE		SUSP,BM,PAIR/4041
H256-1	NGC 5322	UMa	Galaxy E3-4	VB,PL,IR,PSMBM
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		
H258-1	NGC 1491	Per	Nebula E	VB,S,IF,BM,R,*INV
Aug 10 2002	12.5" 25mm	PB,PL,MOD HISB,IRR IN SHAPE,BRT NEBULA,LARGE PATCH		
H261-1	NGC 1931	Aur	Open Cluster I 3 p n	VB,L,R,B***IN M
Aug 21 1982	12.5" 16mm	MF,PS,3F*S IN CENTER,GBM,OVAL,BRIGHT CENTRAL REGION		
H264-1	NGC 4250	Dra	Galaxy SAB(r)0+	PB,S,R,PGBM
Feb 04 2005	31" 17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G		
H266-2	NGC 2613	Pyx	Galaxy SA(s)b	CB,L,VME110
Oct 22 1982	12.5" 16mm	VDIF,VF,MS,ELONG,F FIELD *S AROUND OBJECT,NND,UB		
H270-1	NGC 3610	UMa	Galaxy E5:	VB,PS,LE90,VSVMBMSN
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		
H271-1	NGC 3613	UMa	Galaxy E6	VB,CL,ME305,SMBMN
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		
H273-1	NGC 4589	Dra	Galaxy E2	CB,L,LE,PGBM
Feb 23 2006	31" 17mmT4	EB,VL,OVAL,LARGE BNUC,HISB,SEVERAL *S AROUND NUC ON EDGE,SMBM,R=E		
H280-1	NGC 6217	UMi	Galaxy (R)SB(rs)bc	B,CL,LE,SLBM
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		
H282-2	NGC 615	Cet	Galaxy SA(rs)b	PB,PL,ILE,GBM,*8NP10
Sep 27 1981	12.5" 16mm	DIF,MF,MS,ELONG,FNUC,STELL NUC,BRIGHTER IN EQ PLANE		
Sep 10 1980	12.5" 24mm			
H285-1	NGC 2976	UMa	Galaxy SAc pec	B,VL,ME152,ST INV
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		
H286-1	NGC 3077	UMa	Galaxy I0 pec	CB,CL,MBM,R WITH RAY
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			
H288-1	NGC 2655	Cam	Galaxy SAB(s)0/a	VB,CL,LE90,GSVMBM
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		
H296-2	NGC 4027	Crv	Galaxy SB(s)dm	GCL,PF,PL,R,RR,ST16
May 03 1981	12.5" 16mm	DIF,PB,PL,DNUC,FAINT HALO		

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H296-2	NGC 4027	Crv	Galaxy SB(s)dm	GCL,PF,PL,R,RR,ST16
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		
H316-2	NGC 2371	Gem	Planetary Neb 3a+2	B,S,R,BMN,P OF DNEB
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			
H342-2	NGC 3912	Leo	Galaxy SAB(s)b? pec	F,PL,R,PGBM
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		
H359-2	NGC 3277	LMi	Galaxy SA(r)ab	CB,CS,R,PGBM
Feb 25 1982	12.5" 16mm	DIF,MF,MS,FNUC,SBM,R		
Dec 03 1980	12.5" 24mm			
H362-2	NGC 3414	LMi	Galaxy S0 pec	B,PL,R,MBM
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			
H402-2	NGC 6118	Ser	Galaxy SA(s)cd	VF,CL,CE45,R
May 31 1981	12.5" 16mm	DIF,VB,ML,FAINT HALO		
H452-2	NGC 210	Cet	Galaxy SAB(s)b	B,PS,R,PSBM,R,*11P'
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			
H466-2	NGC 1087	Cet	Galaxy SAB(rs)c	PB,CL,LE,MBM
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			
H500-2	NGC 4535	Vir	Galaxy SAB(s)c	PF,VL,R
May 03 1981	12.5" 24mm	DIF,PB,EF,DARM,F* APPROX 11 MAG		
H505-2	NGC 2811	Hya	Galaxy SB(rs)a	PB,PS,E,PSMBM
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		
H513-2	NGC 5054	Vir	Galaxy SA(s)bc	F,PS,IR
Feb 12 1983	12.5" 24mm	EDIF,EF,VL,PATCH-OVAL,UB,NND		
H534-2	NGC 5364	Vir	Galaxy SA(rs)bc pec	CF,L,R,GBM
Feb 12 1983	12.5" 16mm	DIF,VF,VL,R-OVAL,UB,B* CLOSE BY,PAIR/5363		
H536-2	NGC 4845	Vir	Galaxy SA(s)ab sp	PF,PL,PME,VGBM,*NF
Feb 12 1983	12.5" 16mm	DIF,MF,MS,ELONG,BETWEEN 2F*S,UB,NND		
H569-2	NGC 4273	Vir	Galaxy SB(s)c	PB,L,E,GBM
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		
H573-2	NGC 4281	Vir	Galaxy S0+: sp	B,VL,R,PGBM

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H573-2	NGC 4281	Vir	Galaxy S0+: sp	B,VL,R,PGBM
Apr 26 2003	12.5" 9mmT6	MP,PL,ELONG,BNUC,MOD HISB,GBM,LARGE NUC AREA,CLUSTER,1 OF 9,R=E		
H584-2	NGC 6235	Oph	Globular	PB,CL,IR,RRR,*14..16
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		
H587-2	NGC 6426	Oph	Globular	VF,CL,E,VLBM
Jun 04 1981	12.5" 24mm	DIF,MF,PS		
H611-3	NGC 4725	Com	Galaxy SAB(r)ab pec	VB,VL,E,VG,VSVMBMEBN
Feb 12 1983	12.5" 24mm	VB,EL,BNUC,LARGE BRT NUC,OVAL,SLIGHTLY ELONG		
H622-2	NGC 428	Cet	Galaxy SAB(s)m	F,L,R,BM,ER
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		
H637-3	NGC 6058	Her	Planetary Neb 3+2	PF,VS,R,STELLAR
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		
H700-3	NGC 3319	UMa	Galaxy SB(rs)cd	CF,L,IE,MB,S OF M
Mar 15 1985	12.5" 24mm	EDIF,EF,MS,OVAL,UB,*S OFF TO ONE SIDE		
H701-2	NGC 6207	Her	Galaxy SA(s)c	PB,PL,E45,VGMBM
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		
H706-2	NGC 7538	Cep	Nebula E	VF,L,2PB*INV
Sep 18 2004	31" 17mmT4	W/OIII,PB,PL,UB,SHISB,2 B*S IN CTR,WHISPS OF NEB,SPIRAL SHAPE,GREENISH,R=E		
H707-2	NGC 185	Cas	Galaxy E3 pec	PB,VL,IR,VGMBM,R
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			
H716-2	NGC 5371	CVn	Galaxy SBbc	PB,L,R,BMFN
Jan 28 1982	12.5" 16mm	DIF,MB,PL,DNUC,2*S OFF W SIDE,1*NE,SMALL NUC,SOME KNTY STR SUSP,R,FACE ON		
H730-2	NGC 3726	UMa	Galaxy SAB(r)c	PB,VL,LE0,VSMBM,*11N
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		
H738-2	NGC 3893	UMa	Galaxy SAB(rs)c:	B,PL,R,MBM
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		
H739-3	NGC 6015	Dra	Galaxy SA(s)cd	VF,PL,R,VGMBM

Herschel 400 (I) Observations

H739-3	NGC 6015	Dra	Galaxy SA(s)cd	VF,PL,R,VGBM
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	
H743-3	NGC 6781	Aql	Planetary Neb 3+3	PLN,F,L,R,VSBM DISC
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	
H747-3	NGC 1961	Cam	Galaxy SAB(rs)c	CF,PL,IF,MBM,ER,*INV
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	
H748-2	NGC 4217	CVn	Galaxy Sb sp	PF,L,ME45,**N,P OF 2
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	
H759-2	NGC 5907	Dra	Galaxy SA(s)c: sp	CB,VL,VME155,VGPSBMN
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	
H764-2	NGC 5982	Dra	Galaxy E3	CB,S,R,PSBM,R
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	
H766-2	NGC 5985	Dra	Galaxy SAB(r)b	PB,CL,IE,R
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			
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	
H769-2	NGC 2339	Gem	Galaxy SAB(rs)bc	PB,PL,R,GLBM
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	