

Herschel 400 (I) Observations

H1-1	NGC 1055	Cet	Galaxy SBb: sp	PF,CL,IE80,BM,*11N1'
Nov 21 2006	8"	11mmT6	PF,S,OVAL,NND,R=F	
Dec 16 2009	12"	11mmT6	PB,L,EON,UB,HSB,R=G	
H1-4	NGC 7009	Aqr	Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
Sep 27 2005	31"	17mmT4	VB,VL,OVAL,HISB,R=G!!	
Oct 29 2006	8"	19mmW	F,VS,OVAL,R=F	
Oct 09 2018	12"	8mm Et	B,S,R=G. NO FILTER. CAN EASILY SEE APPENDEGES	
Jul 08 2018	12"	8mm Et	B,MS,R=G. SATURN NEBULA	
Jul 08 2004	31"	17mmT4	GREAT IN THE BIG ONE!	
Jul 08 2004	8"	25mmPL	SMALL IN 8_DOBSON	
Aug 21 2015	12"	8mm Ds		
H1-6	NGC 2420	Gem	Open Cluster 11.0 I 1 r	CL,CL,RI,C,ST11...18
Mar 04 2006	8"	19mmW	ML,PB,R=G	
H1-8	NGC 2509	Pup	Open Cluster I 1 r	CL,B,PRI,LC,ST S
Mar 13 2007	8"	19mmW	F,PL,R=F,DIM PATCH	
H2-1	NGC 2775	Cnc	Galaxy SA(r)ab	CB,CL,R,VGVSBM,R
Mar 15 2005	8"	11mmT6	MB,ML,OVAL,PATCH,NND,R=G	
H2-5	NGC 4536	Vir	Galaxy SAB(rs)bc	B,VL,ME110,SBM,ER
Apr 13 2005	8"	11mmT6	MB,ML,EL,EON,FNUC,R=G	
H2-6	NGC 2304	Gem	Open Cluster II 1 m	CL,PL,RI,MC,ST VS
Mar 04 2006	8"	19mmW	F,S,R=F	
H2-7	NGC 2244	Mon	Open Cluster 7.0 II 3 r n	CL,BEAUTIFUL,STSC
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 08 2007	1.9"	12x50	PB,S,VFAINT NEBULOSITY,R=F	
Feb 10 2005	8"	11mmT6	VB,VL,R=G	
H3-1	NGC 3166	Sex	Galaxy SAB(rs)0/a	B,PS,R,PSMBM,2ND OF3
Mar 13 2007	8"	11mmT6	CB,CL,OVAL,FNUC,MHISB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H3-2	NGC 157	Cet	Galaxy SAB(rs)bc	PB,L,E,BET2CB*
Nov 03 2004	8"	11mmT6	MB,EL,NND,MSB,R=G	
H3-8	NGC 2251	Mon	Open Cluster 9.1 III 2 m	CL,VL,E,RI,LC
Nov 04 2007	1.9"	12x50	F,S,R=F	
Mar 29 2006	8"	19mmW	B,L,R=F	
H4-1	NGC 3169	Sex	Galaxy SA(s)a pec	B,PL,VLE,PGMBM,3RD-3
Mar 13 2007	8"	11mmT6	CB,CL,OVAL,FNUC,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H4-2	NGC 596	Cet	Galaxy E+ pec:	PB,R,BM,R,*6F12'
Nov 21 2006	8"	11mmT6	F,PS,OVAL,FNUC,R=G	
H4-7	NGC 1817	Tau	Open Cluster 9.0 IV 2 r	CL,L,RI,LC,ST11...14
Nov 09 2006	8"	19mmW	F,PS,R=F	
Nov 04 2007	1.9"	12x50	B,S,PAIR W/NGC 1807,R=F	
Dec 15 2004	8"	11mmT6	SMALL, MANY STARS R=G	
H5-1	NGC 3655	Leo	Galaxy SA(s)c:	PB,PS,IR,BM,R
Mar 13 2007	8"	11mmT6	VF,VS,R,NND,AV,R=F	
H5-4	NGC 4437	Vir	Galaxy SA(s)cd: sp	F,EE75,*10NF
May 19 2010	12"	7.5mmW	DIFF,CF,PS,EON,NND,AV,R=F	
H5-5	NGC 4293	Com	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
Apr 26 2006	8"	11mmT6	PB,L,EON,UB,R=F	

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H5-5	NGC 4293	Com	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
Apr 26 2006	8"	11mmT6	PB,L,EON,UB,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H5-6	NGC 2194	Ori	Open Cluster 13.0 II 2 r	CL,L,RI,GVMCM
Mar 29 2006	8"	11mmT6	F,S,R=F	
H5-8	NGC 2264	Mon	Open Cluster 5.0 III 3 m n	15MON,CL,**,(NEB)
Mar 13 2007	8"	19mmW	PB,PL,R-G	
Mar 09 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Mar 08 2007	1.9"	12x50	PB,S,R=F	
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**	
H6-1	NGC 5363	Vir	Galaxy I0?	B,PL,R,PSBM,*8NF
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	PB,S,R,FNUC,MSB,R=G	
Apr 14 2016	12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
H6-6	NGC 2355	Gem	Open Cluster 13.0 II 2 m	CL,PS,PRI,MC,*15..16
Mar 04 2006	8"	19mmW	B,S,R=F	
H8-1	NGC 4698	Vir	Galaxy SA(s)ab	CB,PL,IR,BM,R
Apr 13 2005	8"	11mmT6	MB,ML,EON,FNUC,MSB,R=G	
H8-5	NGC 3628	Leo	Galaxy Sb pec sp	PB,VL,VME102
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Apr 26 2006	8"	11mmT6	PF,CL,EON,NND,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H8-7	NGC 6940	Vul	Open Cluster 11.0 III 2 r	CL,VB,VL,VRI,CC,STPL
Nov 14 2006	1.9"	12x50	F,S,LOOSER,R=F	
Jul 23 2006	8"	11mmT6	PB,PL,R=G	
Jul 19 2017	12"	17mmT4	VERY NICE. FULL AND SCATTERED.	
H8-8	NGC 1647	Tau	Open Cluster 9.0 II 2 r	CL,VL,ST L,SC
Nov 09 2006	8"	19mmW	F,L,R=F	
Nov 04 2007	1.9"	12x50	PB,PL,R=G	
Dec 04 2004	8"	11mmT6	R,R=F, SCATTERED STARS	
H9-1	NGC 4179	Vir	Galaxy S0 sp	PB,PS,PME135,BMN
Apr 04 2005	8"	11mmT6	MB,EON,OVAL,FNUC,MSB,R=G	
H9-6	NGC 5466	Boo	Globular	CL,L,VRI,VMC,ST11...
May 30 2016	12"	8mm Et	VF,S,R=G	
May 04 2005	8"	11mmT6	VF,R,R=F	
H9-7	NGC 6830	Vul	Open Cluster 10.0 II 2 p	CL,L,PRI,PC,*11...12
Jul 23 2006	8"	11mmT6	B,PS,R=F	
H10-1	NGC 4643	Vir	Galaxy SB(rs)0/a	CB,PS,LE,MBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G	
Apr 26 2009	16"	17mmT4	PF,PS,OVAL,FNUC,R=F	
H10-7	NGC 2482	Pup	Open Cluster 10.0 IV 1 m	CL,L,CRI,VLC
Mar 13 2007	8"	19mmW	B,PL,R=F, LOOSE GROUP	
H11-4	NGC 6369	Oph	Planetary Neb 4+2	RINGNEB,PB,S,R
Jul 09 2005	8"	11mmT6	MB,MS,R,R=G	
Jul 07 2018	12"	8mm Et	PF,S,R=G. OIII FILTER	
H11-6	NGC 6284	Oph	Globular	GCL,B,L,R,CM,ST16...
May 30 2016	12"	8mm Ds	VF,PS,R=F	

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H11-6	NGC 6284	Oph	Globular	GCL,B,L,R,CM,ST16...
May 30 2016	12"	8mm Ds	VF,PS,R=F	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
Jul 15 2006	8"	19mmW	PF,PS,R=F	
Jul 02 2017	12"	17mmT4	PF,PS,R=F. SMUDGE	
H11-7	NGC 2539	Pup	Open Cluster 9.0 III 2 m	CL,VL,RI,LC,*11...13
May 22 2015	12"	17mmT4	CAUGHT BEFORE SETTING. LOW ON HORIZON	
Mar 28 2008	1.9"	12x50	PB,PL,R=G	
Mar 13 2007	8"	19mmW	B,PL,R=G,RESOLVE FAINTER STARS	
H11-8	NGC 2395	Gem	Open Cluster 10.0 IV 2 m	CL,PRI,C
Mar 04 2006	8"	19mmW	F,S,R=F	
H12-7	NGC 2360	CMa	Open Cluster 10.4 I 3 r	CL,VL,RI,PC,ST9...12
Mar 13 2007	8"	19mmW	F,S,R=F,RESOLVE 7+ STARS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Dec 18 2006	1.9"	12x50	F,S,R=F,UNCOMPRESSED GROUP	
H12-8	NGC 6664	Sct	Open Cluster 9.0 III 2 m	CL,L,PRI,VLC
Mar 18 2007	8"	11mmT6	B,L,LOOSE GROUP,R=F	
Aug 13 2007	31"	31mmT5	B,L,R=G	
H13-1	NGC 3521	Leo	Galaxy SAB(rs)bc	CB,CL,ME140,VSMBMN
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Apr 26 2006	8"	11mmT6	PB,PL,OVAL,BNUC,HISB,R=G	
H13-7	NGC 2204	CMa	Open Cluster 13.0 II 2 r	CL,L,PRI,LC
Feb 10 2005	8"	11mmT6	DIFFUSED,ML,R,R=G	
H14-5	NGC 6992	Cyg	Nebula E	EF,EL,EE,EIF,BIFID
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jun 20 2007	1.9"	12x50	PF,L,R=F, HINT OF NEBULOSITY	
Jul 25 2011	12"	32mmUW	B,L,R=E! LP-2 FILTER, WISPY FILEMENTS	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
H14-6	NGC 6802	Vul	Open Cluster 14.0 I 1 m	CL,L,VC,E0,ST14...18
Jul 23 2006	8"	11mmT6	PF,CS,R=F	
H15-1	NGC 4666	Vir	Galaxy SABc:	B,VL,ME45,PSBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	VB,VL,EON,BNUC,VHISB,R=G	
Apr 26 2009	16"	17mmT4	PB,PS,EON,FNUC,R=G	
Apr 14 2010	16"	11mmT6	PF,PS,EON,FNUC,USB,R=G	
H16-1	NGC 4753	Vir	Galaxy I0	CB,L,VLE,VGLBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	CB,CL,OVAL,BNUC,MSB,R=G	
H16-4	NGC 6905	Del	Planetary Neb 3+3	PLN,B,PS,R,4S*NR
Jul 25 2017	12"	11mmT6	F,PS,R=G.. USED LP2	
Aug 13 2007	31"	31mmT5	PF,CS,R,R=G, CENTRAL STAR NOT VISIBLE	
Aug 09 2005	8"	11mmT6	MB,ML,PATCHY,MSB,R=G	
H16-8	NGC 6834	Cyg	Open Cluster 11.0 II 2 m	CL,P,LC,*11...12
Jul 23 2006	8"	19mmW	PB,PS,R=F,LOOSE GROUP	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
H17-1	NGC 3379	Leo M105	Galaxy E1	VB,CL,R,PSBM,R
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	

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H17-1	NGC 3379	Leo M105	Galaxy E1	VB,CL,R,PSBM,R
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
May 06 2007	1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	FB,CL,OVAL,BNUC,HISB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGONAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Feb 25 2004	8"	25mmPL	1ST. QTR.	
Apr 02 2008	8"	11mmT6	PB,PLM,R,BNUC,HSB,R=G	
H17-5	NGC 598	Tri M33	Galaxy SA(s)cd	EB,EL,R,VGBMN 6
Oct 31 2004	1.9"	12x50	VB,ML,EON,LSB,R=G	
Oct 29 2008	16"	20mmUW	LARGE, DIFFUSE PATCH	
Oct 27 2004	31"	31mmT5	VB,ML,OVAL,HISB,R=E, LUNAR ECLIPSE	
Oct 26 2014	12"	22mmAT	EYE CANDY	
Oct 21 2012	8"	25mmPL	LARGE AND FAINT AS ALWAYS	
Oct 09 2018	12"	35mm A	PB,VL,R=F, PRETTY DIFFUSE.	
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	DIFF,L,F,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGONAVIS	
Mar 17 2007	8"	25mmPL	M.M. BETWEEN CLOUDS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Dec 26 2003	8"	25mmPL	Q/M COLD	
Aug 21 2015	12"	35mm A		
H17-6	NGC 2158	Gem	Open Cluster 15.0 II 3 r	CL,PS,MC,VRI,IRRTRI
Dec 04 2004	8"	11mmT6	OVAL,R=F	
H17-7	NGC 2362	CMa	Open Cluster 8.0 I 3 r	CL,PL,RI,30CMA
Feb 10 2005	8"	11mmT6	VB,ML,R,R=G	
H18-1	NGC 3384	Leo	Galaxy SB(s)0-:	VB,L,R,PSMBM,2ND OF3
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Apr 26 2006	8"	11mmT6	FB,PS,OVAL,UB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Apr 02 2008	8"	11mmT6	PB,PL,OVAL,UB,FNUC,R=G	
H18-4	NGC 7662	And	Planetary Neb 4+3	PLN ORRING,VB,PS,R
Oct 09 2018	12"	8mm Et	PB,S,R=G	
Oct 05 2016	12"	11mmT6	B,S,OIII,R=G. BLUE STREAK NEBULA	
Nov 21 2006	8"	11mmT6	VB,PS,OVAL, NO CENTRAL STAR,R=G	
Aug 24 2012	18"	5mm TV	ROUND AND BRIGHT, OIII, BLUE SNOWBALL, R=E!	
Aug 23 2004	8"	9mm	SMALL,FAINT. LOOK @ AGAIN LATER!	
Aug 21 2015	12"	8mm Ds	PRETTY SMALL USED LP2 FILTER	
H18-5	NGC 205	And M110	Galaxy E5 pec	VB,VL,ME165,VGVMBM
Sep 02 2016	12"	35mm A	SUPER	
Oct 27 2004	31"	31mmT5	VB,ML,OVAL,HISB,R=E, LUNAR ECLIPSE	
Oct 26 2014	12"	22mmAT	EYE CANDY	

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H18-5	NGC 205	And M110	Galaxy E5 pec	VB,VL,ME165,VGVMBM
Oct 26 2014	12"	22mmAT	EYE CANDY	
Mar 20 2009	1.9"	12x50	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	PB,ML,OVALFNUC,HISB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	32mmUW	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jul 13 2013	18"	35mm A	MORE EYE CANDY	
Jan 25 2018	12"	11mmT6	NICE OBJECT	
Dec 26 2003	8"	25mmPL	Q/M COLD	
Dec 16 2009	12"	20mmUW		
Dec 05 2015	12"	17mmT4		
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Aug 21 2015	12"	8mm Ds		
Aug 20 2006	1.9"	12x50	B,L,OVAL,UB,NND,R=G	
H18-7	NGC 6823	Vul	Open Cluster 8.8 I 3 m n	CL,CRI,E,ST11...12
Jun 20 2007	1.9"	12x50	PF,PS, STARS 6+,R=F	
Jul 23 2006	8"	11mmT6	B,PS,R=F	
H19-1	NGC 4147	Com	Globular	GCL,VB,PL,R,GBM,RRR
May 30 2016	12"	8mm Et	PF,PS,R=F. UNRESOLVED STARS	
Mar 29 2006	8"	11mmT6	F,S,R,NND,R=F CLASS IX	
Apr 20 2018	12"	11mmT6		
Apr 13 2005	8"	7.5mmW	R,MSB,R=G	
H19-5	NGC 891	And	Galaxy SA(s)b? sp	B,VL,VME22
Oct 27 2004	31"	31mmT5	VB,ML,EON,HISB,R=E, LUNAR ECLIPSE	
Oct 12 2012	18"	17mmT4	DARK DUST LANE BISECTING GALAXY. JOHN'S 20" OBSESSION	
Oct 07 2010	12"	11mmT6	PF,S,EON,UB,NND,R=F,PA=85	
Oct 06 2004	8"	11mmT6	MB,EL,EON,NND,R=G	
H19-6	NGC 5897	Lib	Globular	GCL,PF,L,VIR,VGBM,
May 30 2016	12"	8mm Ds	PF,S,R=F	
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL	
Jul 23 2006	8"	11mmT6	CF,PS,R,R=F	
Jul 21 2007	1.9"	12x50	PF,PS,AV,R=F	
Jul 15 2006	8"	19mmW	VF,PS,R=F, DIM, UNRESOLVED.	
H19-7	NGC 6755	Aql	Open Cluster 11.0 II 2 r	CL,VL,VRI,PC,,*12.14
Oct 30 2007	1.9"	12x50	B,S,R=F	
Jul 08 2004	8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8	
H20-4	NGC 2185	Mon	Nebula R	*11\$4S*IN VF,L,NEB
Mar 13 2007	8"	11mmT6	PF,PS,R=F,HINT OF NEBULOSITY	
H20-5	NGC 247	Cet	Galaxy SAB(s)d	F,EL,VME172
Nov 21 2006	8"	19mmW	F,L,EON,NND,R=F	
H20-7	NGC 2215	Mon	Open Cluster 11.0 II 2 m	CL,CL,PRI,PC,ST11.15
Mar 29 2006	8"	19mmW	F,S,R=F	
H20-8	NGC 6885	Vul	Open Cluster 5.9 III 2 m	CL,VB,VL,RI,LC,*6.11
Jul 23 2006	8"	11mmT6	PB,PS,R=F	
H21-1	NGC 3810	Leo	Galaxy SA(rs)c	B,L,VLE
Apr 26 2006	8"	11mmT6	PF,L,OVAL,UB,NND,R=F	

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H21-1	NGC 3810	Leo	Galaxy SA(rs)c	B,L,VLE
Apr 26 2006	8"	11mmT6	PF,L,OVAL,UB,NND,R=F	
Apr 18 2012	18"	8.8 ES	PF,S,OVAL,FNUC,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H21-4	NGC 1964	Lep	Galaxy SAB(s)b	F,VS,R,VSVMBM,3*INV
Dec 04 2004	8"	11mmT6	MB,EL,FNUC,MSB,R=G	
H21-6	NGC 2266	Gem	Open Cluster 11.0 II 2 m	CL,PS,EC,RI,ST11..15
Mar 04 2006	8"	19mmW	MB,S,R=F	
H22-1	NGC 4371	Vir	Galaxy SB(r)0+	B,PS,R,GBM
Apr 26 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H22-6	NGC 2548	Hya M48	Open Cluster 8.0 I 3 r	CL,VL,PRI,PMC,*9..13
May 22 2015	12"	17mmT4	TYPICAL OPEN CLUSTER R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	F,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Feb 25 2004	8"	25mmPL	1ST. QTR.	
H22-8	NGC 6882	Vul	Open Cluster	CL,P,LC
Jul 23 2006	8"	11mmT6	PB,PS,R=F	
H23-4	NGC 936	Cet	Galaxy SB(rs)0+	VB,VL,R,MBMN,P OF 2
Nov 21 2006	8"	11mmT6	B,LOVAL,NND,R=F	
H24-1	NGC 4596	Vir	Galaxy SB(r)0+	B,PS,R,GMBM,R,3*F
Apr 08 2005	8"	11mmT6	MB,ML,OVALFNUC,R=G	
H24-5	NGC 4565	Com	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
May 18 2009	31"	31mmT5	PB,PL,EON,BNUC,HISB,R=E, NICE DUST LANE	
May 14 2010	31"	17mmT4	VB,VL,EON,BNUC,HSB,DARK DUST LANE BISECST. FILLS EYEPIECE,R=E!!	
Mar 04 2006	31"	31mmT5	VB,VL,EON,BNUC,HISB,R=G	
Apr 13 2005	8"	7.5mmW	MB,ML,EL,EON,FNUC,R=G	
H24-6	NGC 7044	Cyg	Open Cluster 15.0 I 1 r	CL,VF,PL,VRI,VC
Jul 23 2006	8"	19mmW	B,S,R=F	
H24-8	NGC 2169	Ori	Open Cluster 6.9 III 3 m	CL,S,LRI,PMC,**
Nov 06 2004	8"	11mmT6	NICE SHAPE	
Nov 04 2007	1.9"	12x50	PF,S,R=F	
Apr 17 2006	8"	19mmW	B,S,R=F	
H25-1	NGC 4754	Vir	Galaxy SB(r)0-	B,PL,R,PSBM,P OF 2
Apr 28 2006	31"	19mmW	CB,CL,OVAL,UB,FNUC,MSB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H25-4	NGC 2327	CMa	Nebula	PB**INV INS,VF,NEB
Mar 28 2011	12"	7mm TV	SMALL,FAINT,R=F,OIII	
H25-5	NGC 246	Psc	Planetary Neb 3b	VF,L,4*IN DIF NEB
Nov 28 2010	12"	7mm TV	PF,PS,R=F,IRREGULAR SHAPE, NO CENTRAL STAR, OIII HELPS	
Nov 21 2006	8"	11mmT6	F,L,R,R=G	
H25-6	NGC 1245	Per	Open Cluster 12.0 II 2 r	CL,PL,RI,C,IR,*12.15
Nov 09 2004	8"	7.5mmW	MANY STARS - FAINT	
H25-7	NGC 2186	Ori	Open Cluster 12.0 II 2 m	CL,PL,PRI,PC,ST L\$\$

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H25-7	NGC 2186	Ori	Open Cluster 12.0 II 2 m	CL,PL,PRI,PC,ST L\$\$
Mar 29 2006	8"	11mmT6	F,S,R=F	
H25-8	NGC 2232	Mon	Open Cluster 5.0 III 2 p	B* 10MON +CL
Mar 13 2007	8"	19mmW	PB,PL,R=F,LOOSE GROUP	
Mar 09 2004	8"	25mmPL	COMPTER = ARGONAVIS	
Mar 08 2007	1.9"	12x50	FB,S,LOOSE,R=F	
H26-4	NGC 1535	Eri	Planetary Neb 4+2c	PLN,VB,S,R,PS,VSBM,R
Nov 21 2006	8"	11mmT6	B,PS,R, NO CENTRAL STAR,R=F	
Nov 11 2009	12"	7.5mmW	B,PS,R=G, NO CENTRAL STAR NOTED.	
Feb 17 2012	18"	11mmT6	OIII FILTER - VERY NICE PLANETARY	
Dec 28 2008	31"	17mmT4	VB,PS,R,R=G,BRIGHT CENTRAL STAR!!, OIII	
H26-8	NGC 2129	Gem	Open Cluster 10.0 I 3 m	CL,PL,40OR50ST8...15
Dec 15 2004	8"	11mmT6	R, R=G	
H27-1	NGC 3412	Leo	Galaxy SB(s)0^A	B,S,LE135,SMBMN
Apr 26 2006	8"	11mmT6	FB,PS,OVAL,FNUC,MSB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H27-4	NGC 3242	Hya	Planetary Neb 4+3b	PLN,VB,LE147,45"D
May 22 2015	12"	8mm Ds	NO FILTER CENTRAL STAR NOT VISIBLE	
Apr 08 2005	8"	7.5mmW	VB,VL,R,R=G	
H27-6	NGC 2301	Mon	Open Cluster 8.0 I 3 r	CL,RI,L,IF,ST L\$\$
Mar 29 2006	8"	19mmW	PB,L,R=G	
Mar 08 2007	1.9"	12x50	PB,S,COMPRESSED,R=F	
H28-1	NGC 4435	Vir	Galaxy SB(s)0^A	VB,CL,R,NP OF 2
May 14 2017	12"	11mmT6	F,PS,R,FNUC,R=E	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Apr 26 2006	8"	11mmT6	B,S,R,FNUC,MSB,R=G	
Apr 20 2018	12"	11mmT6		
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H28-1	NGC 4438	Vir	Galaxy SA(s)0/a pec:	B,CL,VLE,R,SF OF 2
May 14 2017	12"	11mmT6	F,PS,EON,FNUC,R=E	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Apr 26 2006	8"	11mmT6	F,PL,EL,OVAL,NND,R=F	
Apr 20 2018	12"	11mmT6		
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H28-2	NGC 3226	Leo	Galaxy E2: pec	PB,CL,R,DW/3227
Mar 13 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Apr 26 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F	
H28-5	NGC 2024	Ori	Nebula E	IRR,B,VVL,BLACKSPINC
Nov 22 2006	8"	11mmT6	B,L,R=G,STARSGLOW,IRREGULARSHAPE	
H28-7	NGC 2423	Pup	Open Cluster 9.0 II 2 m	CL,VL,RI,PC,ST VS
Mar 13 2007	8"	19mmW	F,PL,R=G,DIM PATCH	
H28.1-4	NGC 4038	Crv	Galaxy SB(s)m pec	PB,CL,R,VGBM
Apr 20 2018	12"	11mmT6		
Apr 19 2007	31"	17mmT4	PB,CL,OVAL,UB,NND,R=G	
Apr 14 2016	12"	8mm Ds	PF,PS,UB,NND, NOT MUCH TO SEE IN MOON AND LOW HORIZON	
Apr 13 2005	8"	7.5mmW	VF,VS,NND,AV,R=F	
H29-1	NGC 3593	Leo	Galaxy SA(s)0/a:	B,CL,E90,PSMBM
Apr 26 2006	8"	11mmT6	F,L,EON,NND,R=F	

Herschel 400 (I) Observations

H29-1	NGC 3593	Leo	Galaxy SA(s)0/a:	B,CL,E90,PSMBM
Apr 26 2006	8"	11mmT6	F,L,EON,NND,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H29-2	NGC 3227	Leo	Galaxy SAB(s)a pec	PB,CL,R,DW/3226
Mar 23 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Apr 26 2006	8"	11mmT6	F,S,EL,R,NND,R=F	
H30-1	NGC 4365	Vir	Galaxy E3	CB,PL,VLE,GL,SMBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 26 2006	8"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G	
H30-6	NGC 7789	Cas	Open Cluster 10.0 II 2 r	CL,VL,VRI,VMC,*11.18
Oct 09 2018	12"	8mm Et	B,L,R=E. BEAUTIFUL CLUSTER. CAROLINE'S ROSE	
Nov 26 2006	1.9"	12x50	F,S,R=F	
Nov 09 2006	8"	19mmW	15+,PF,R=F	
Jul 24 2006	8"	11mmT6	PB,PL,R=G	
Jul 08 2018	12"	17mmT4	CAROLINE'S ROSE. OUTSTANDING	
Dec 31 2003	8"	25mmPL	H/M COLD	
Dec 05 2015	12"	17mmT4	CAROLINE'S ROSE. VERY NICE	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H31-1	NGC 4526	Vir	Galaxy SAB(s)0^:	VB,VL,ME120,PSMBM
May 14 2007	31"	17mmT4	VB,CL,EON,BNUC,HISB,R=G	
Apr 26 2006	8"	11mmT6	VB,CS,EON,BNUC,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
H31-5	NGC 1980	Ori	Nebula III 3 m n	VF,VVL,44ORIONIS INV
Mar 29 2006	8"	19mmW	PB,L,R=F	
H31-6	NGC 663	Cas	Open Cluster 9.0 II 3 r	CL,B,L,ERI,ST PL
Sep 15 2004	8"	11mmT6	NICE - LOTS OF STARS	
Oct 21 2012	8"	11mmT6	B,L,LOOSE,STGARS=40-60,R=G	
Oct 09 2018	12"	8mm Et	B,L,R=G	
Nov 26 2006	1.9"	12x50	F,CS,PATCHY,R=F	
Nov 09 2006	8"	19mmW	LOOSE, CLUSTERED SOUTHERN HALF,R=F	
Dec 05 2015	12"	17mmT4		
Aug 21 2015	12"	8mm Ds		
H31-8	NGC 2286	Mon	Open Cluster 9.0 III 2 m	CL,L,C,AB100*9...15
Mar 29 2006	8"	19mmW	B,L,R=F	
H32-1	NGC 4570	Vir	Galaxy S0 sp	CB,PS,ME0,SBMRN
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	VB,CL,EON,,BNUC,PHISB,R=G	
H32-5	NGC 1788	Ori	Nebula R	B,CL,R,BM,***15,*1'F
Nov 21 2006	8"	11mmT6	F,S,S,R=F, BRIGHTER THAN SOME.	
H32-6	NGC 7086	Cyg	Open Cluster 10.2 II 2 m	CL,CL,VRI,PC,*11..16
Jul 23 2006	8"	19mmW	PB,PS,R=F	
H32-7	NGC 752	And	Open Cluster 8.0 II 2 r	CL,VVL,RI,*L\$SC
Oct 29 2006	8"	19mmW	50+STARS,R,R=G	
Oct 06 2004	8"	7.5mmW	EB,R,UB,R=G	
Nov 26 2006	1.9"	12x50	B,L,LOOSE,RESOLVE 4-5 STARS,R=F	
H32-8	NGC 2335	Mon	Open Cluster 10.0 III 2 m n	CL,L,LC
Mar 29 2006	8"	19mmW	F,PS,R=F	

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H32-8	NGC 2335	Mon	Open Cluster 10.0 III 2 m n	CL,L,LC
Mar 29 2006	8"	19mmW	F,PS,R=F	
H33-2	NGC 3640	Leo	Galaxy E3	B,PL,R,PSBM
Apr 26 2006	8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G	
Apr 15 2007	31"	17mmT4	PB,L,R,BNUC,HISB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H33-4	NGC 1999	Ori	Nebula E	*10,11INV IN NEB
Feb 20 2006	31"	31mmT5	MB,ML,R=F, OIII	
H33-6	NGC 869	Per	Open Cluster 6.6 I 3 r	CL,VVL,VRI,*7...14
Sep 24 2016	12"	17mmT4	GREAT OBJECT.	
Sep 01 2005	8"	7.5mmW	VB,R,R=G. BEAUTY - DOUBLE CLUSTER	
Oct 31 2004	1.9"	12x50	VERY NICE IN BINOCULARS	
Oct 29 2006	8"	19mmW	B,L,LOOSE,R,R=G	
Oct 21 2012	8"	25mmPL	NICE BUT NOT AS NICE AS WRO	
Oct 13 2006	1.9"	12x50	PB,PL,R=G	
Oct 12 2012	18"	35mm A	DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR	
Oct 09 2018	12"	35mm A	BEST CLUSTER OF THE NIGHT, DOUBLE CLUSTER	
Oct 01 2006	1.9"	12x50	B,L,R=G, TIGHT GROUP	
Jan 25 2018	12"	35mm A	NICE OBJECT	
Dec 31 2003	8"	25mmPL	H/M COLD	
Dec 05 2015	12"	17mmT4		
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Aug 21 2015	12"	35mm A		
H33-7	NGC 1857	Aur	Open Cluster 11.0 I 3 m	CL,PRI,PC,ST7...
Jan 26 2006	8"	19mmW	R=P, FEW STARS	
Dec 28 2006	1.9"	12x50	F,S,PATCHY,UNRESOLVED,R=F	
H33-8	NGC 2343	Mon	Open Cluster 8.0 II 2 p n	CL,CL,P,LC
Mar 29 2006	8"	19mmW	F,PS,R=F	
H34-1	NGC 5248	Boo	Galaxy SAB(rs)bc	B,L,E150,PSBMRN
May 04 2005	8"	11mmT6	MB,ML,OVAL,FNUC,R=G	
Jul 01 2016	12"	8mm Et	MB,ML,OVAL, FNUC,R=G	
H34-4	NGC 2022	Ori	Planetary Neb 4+2	PLN,PB,VS,VLE
Nov 22 2006	8"	11mmT6	PF,S,R=F	
Mar 09 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 28 2008	31"	17mmT4	F,PS,OVAL,R=G, NO CENTRAL STAR	
H34-6	NGC 884	Per	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
Sep 24 2016	12"	17mmT4	GREAT OBJECT.	
Sep 01 2005	8"	7.5mmW	VB,R,R=G. BEAUTY - DOUBLE CLUSTER	
Oct 31 2004	1.9"	12x50	VERY NICE IN BINOCULARS	
Oct 29 2006	8"	19mmW	B,L,COMPRESSED,R,R=G	
Oct 21 2012	8"	25mmPL	NICE BUT NOT AS NICE AS WRO	
Oct 13 2006	1.9"	12x50	PB,PL,R=G	
Oct 12 2012	18"	35mm A	DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR	
Oct 09 2018	12"	35mm A	BEST CLUSTER OF THE NIGHT. DOUBLE CLUSTER	
Oct 01 2006	1.9"	12x50	PB,PL,R=G, LITTLE LOOSER	
Jan 25 2018	12"	35mm A	NICE OBJECT	
Dec 31 2003	8"	25mmPL	H/M COLD	
Dec 05 2015	12"	17mmT4		

Herschel 400 (I) Observations

H34-6	NGC 884	Per	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
Dec 05 2015	12"	17mmT4		
Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
Aug 21 2015	12"	35mm A		
H34-8	NGC 2353	Mon	Open Cluster 9.0 III 3 p	CL,L,LC,ONEVB*
Mar 29 2006	8"	19mmW	SMALLER, BRIGHTER, L,R=G	
H35-1	NGC 4216	Vir	Galaxy SAB(s)b:	VB,VL,VME17,SBMN
May 16 2004	10"	28mm	CLEAR - MEGASTAR CONTROL	
Apr 16 2009	16"	17mmT4	PB,PL,EON,BNUC,HSB,R=G	
Apr 04 2005	8"	11mmT6	VB,EON,FNUC,MSB,R=G	
H35-6	NGC 136	Cas	Open Cluster 13.0 II 1 p	GCL,VF,S,EC
Nov 03 2004	8"	11mmT6		
H36-1	NGC 4550	Vir	Galaxy SB0⁺: sp	PB,S,VLE,SP OF 2
Apr 13 2005	8"	11mmT6	MF,MS,EL,NND,R=G	
H37-2	NGC 4527	Vir	Galaxy SAB(s)bc	PB,L,PME69,MBM
Apr 13 2005	8"	11mmT6	MB,ML,EL,EON,FNUC,R=G	
H37-4	NGC 6543	Dra	Planetary Neb 3a+2	PLN,VB,PS,SBMVSN
Sep 05 2010	12"	5.5mmN	PB,PS,R=G, NO CENTRAL STAR NOTED. OIII NOT MUCH HELP - NO ADDITIONAL STRUCTURE	
Oct 21 2012	8"	5mm TV	B,PS,OVAL IN SHAPE,R=F	
Jul 09 2005	8"	11mmT6	VB,VS,OVAL,R=G	
Apr 13 2005	8"	11mmT6	VB,VS,R,R=G	
H37-5	NGC 7000	Cyg	Nebula E	F,EEL,DIF NEBULOSITY
Jun 20 2007	1.9"	12x50	F,EL,R=G, LITTLE BETTER	
Jul 25 2011	12"	32mmUW	B,VL,R=E!! LP-2 FILTER, OUTSTANDING	
Jul 19 2017	12"	35mm A	OUTSTANDING.	
Jul 15 2015	12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jul 08 2018	12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
Aug 21 2015	12"	35mm A	LP2 FILTER	
Aug 02 2005	8"	19mmW	PRETTY LARGE, PRETTY BRIGHT, PRETTY NEAT	
H37-6	NGC 2506	Mon	Open Cluster 11.0 I 2 r	CL,PL,VRI,C,*11...20
Mar 29 2006	8"	19mmW	PF,PS,R=F, NICE GROUP	
H38-2	NGC 4636	Vir	Galaxy E	B,L,IR,VGVMBM,R
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G	
Apr 26 2009	16"	17mmT4	PB,PS,OVAL,FNUC,R=F	
H38-7	NGC 2324	Mon	Open Cluster 12.0 II 2 r	CL,L,RI,CC,ST12...16
Nov 25 2006	8"	11mmT6	F,SMALL-COMPRESSED,R=G	
H38-8	NGC 2422	Pup M47	Open Cluster 5.0 I 3 m	CL,B,VL,PRI,ST L\$S
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	25mmPL	PB,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Dec 30 2003	8"	25mmPL	H/M COLD	
H39-1	NGC 4697	Vir	Galaxy E6	VB,L,LE45,SMBMN

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H39-1	NGC 4697	Vir	Galaxy E6	VB,L,LE45,SMBMN
Apr 28 2006	31"	19mmW	CB,VL,OVAL,VBNUC,VHISB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H39-4	NGC 2438	Pup	Planetary Neb 4+2	PLN,PB,PS,VLE,R
Mar 13 2007	8"	7.5mmW	VF,VS,R=F, NO CENTRAL STAR	
Feb 17 2012	18"	11mmT6	OIII FILTER - VERY NICE PLANETARY	
H39-7	NGC 1907	Aur	Open Cluster 11.0 I 1 m n	CL,PRI,PC,R,ST9...12
Oct 02 2006	1.9"	12x50	CB,CS,R=F.	
Jan 26 2006	8"	19mmW	R=G, SMALL, TIGHT, BRIGHT	
Jan 25 2018	12"	11mmT6	NICE OBJECT	
H40-6	NGC 6171	Oph M107	Globular	GCL,L,VRI,VMC,R,RRR
Mar 27 2006	8"	19mmW	F,L,R=F, DENSE	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jun 14 2004	8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL	
Jul 02 2017	12"	17mmT4	OK	
Aug 20 2006	1.9"	12x50	VF,PS,AV,R=F	
H40-7	NGC 7128	Cyg	Open Cluster 11.5 I 3 m	CL,S,PRI,HASARUBY*9
Jul 23 2006	8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
H41-5	NGC 4244	CVn	Galaxy SA(s)cd: sp	PB,VL,EE43,VGBM
May 04 2005	8"	19mmW	MB,ML,EL,EON,FNUC,R=G	
H41-7	NGC 7296	Lac	Open Cluster 10.0 II 2 p	CL,IR,LC,ST VS
Jul 24 2006	8"	11mmT6	PF,CS,R=F	
H42-1	NGC 4995	Vir	Galaxy SAB(rs)b	PB,PL,R,VGPMBM,*8NP
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	PB,CL,OVAL,FNUC,MSB,R=F	
H42-5	NGC 4631	CVn	Galaxy SB(s)d sp	VB,VL,EE70,BMN,*ATTN
May 04 2005	8"	19mmW	MB,ML,EL,EON,FNUC,R=G	
H42-6	NGC 6939	Cep	Open Cluster 11.9 II 1 r	CL,PL,ERI,PCM,*11.16
Oct 10 2004	8"	11mmT6	MF,R=F, LARGE O.C. LOTS OF STARS	
Oct 06 2004	8"	7.5mmW	MF,R=F	
H42-7	NGC 457	Cas	Open Cluster 8.6 II 3 r	CL,B,L,PRI,*7,8,10
Sep 24 2016	12"	11mmT6	B,L,R=G. OWL CLUSTER	
Oct 21 2012	8"	11mmT6	F,S,STARS=50-60,R=G	
Nov 26 2006	1.9"	12x50	F,L,DIM,PATCHY,R=F	
Nov 09 2006	8"	19mmW	30+,CROSS SHAPED,R=F	
Jul 23 2006	8"	7.5mmW	CB,PL,R=G,EXTENDED GROUP	
Dec 31 2003	8"	25mmPL	H/M COLD	
Dec 05 2015	12"	17mmT4	E.T. CLUSTER. AKA OWL CLUSTER	
H43-1	NGC 4594	Vir M104	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
May 23 2015	12"	11mmT6		
May 22 2015	12"	8mm Ds	ALWAYS GREAT. DUST LANE VISIBLE	
May 14 2017	12"	11mmT6	VERY NICE.	
May 06 2007	1.9"	12x50	PB,PL,EON,NND,R=G	
Mar 26 2006	8"	19mmW	PB,PL,EON,BNUC,HISB,R=G	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	

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H43-1	NGC 4594	Vir M104	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Apr 19 2007	31"	17mmT4	VB,VL,EON,BNUC,VHISB,R=E!!	
Apr 14 2016	12"	8mm Ds	PF,PS,EON,FNUC,R=F,DUST LANE FAINT.	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Apr 05 2005	8"	7.5mmW	VB,VL,EON,NUC,HISB,R=E!!	
Apr 02 2008	31"	40mm	PB,PL,EON,BNUC,HISB,R=E	
H43-5	NGC 4258	CVn M106	Galaxy Sb	VB,VL,VME0,SBMBN
Mar 26 2006	8"	19mmW	MB,ML,OVAL,FNUC,MSB,,R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jul 08 2018	12"	8mm Et	B,S,OVAL,MEXT,BNUC,R=G	
Dec 26 2003	8"	25mmPL	Q/M COLD	
H43-7	NGC 7419	Cep	Open Cluster 10.0 I 2 m	CL,PRI,CC
Nov 13 2007	8"	11mmT6	VF,VS,FAINT SMUDGE,R=F	
H43-8	NGC 1750	Tau	Open Cluster OCL	CL,ST L,VCSC
Dec 15 2004	8"	11mmT6	R,MSB,R=G	
H44-1	NGC 6401	Oph	Globular	PB,PL,R,*12F INV
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
Jul 15 2006	8"	19mmW	EF,CS,R=F,VERY DIM SMUDGE	
H44-2	NGC 3190	Leo	Galaxy SA(s)a pec sp	B,PS,E,PSBMN
Apr 26 2006	8"	11mmT6	F,PS,EL,OVAL,NND,R=F	
Apr 15 2007	31"	17mmT4	VB,PL,EON,BNUC,HISB,R=G	
Apr 05 2005	8"	11mmT6	MF,ML,EL,EON,FNUC,R=G	
H44-5	NGC 2403	Cam	Galaxy Sc	CB,EL,VME,VGMBMN
Oct 06 2004	8"	11mmT6	MB,EL,OVAL,NND,R=G	
Nov 26 2006	1.9"	12x50	PF,PS,OVAL,AV,R=F	
H44-7	NGC 7510	Cep	Open Cluster 10.0 II 3 r n	CL,PRI,PC,FAN-SH,B*P
Mar 04 2006	8"	19mmW	B,S,R=G	
H45-2	NGC 3193	Leo	Galaxy E2	B,S,VLE,PSLBM,*9NF
Apr 26 2006	8"	11mmT6	PF,PS,R,NND,R=F	
Apr 15 2007	31"	17mmT4	VB,L,R,BNUC,HISB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H45-4	NGC 2392	Gem	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
Nov 06 2004	8"	11mmT6	NOT A BAD PLANETARY	
May 22 2015	12"	8mm Ds	NO FILTER NEEDED CENTRAL STAR VISIBLE	
Dec 04 2004	8"	7.5mmW	VB,R,HISB,R=E!!!	
H45-5	NGC 3953	UMa	Galaxy SB(r)bc	CB,L,E0,VSMBLRN
Mar 18 2007	8"	11mmT6	PB,PL,EL,OVAL,FNUC,MSB,R=G	
H45-7	NGC 436	Cas	Open Cluster 10.0 I 2 m	CL,S,IF,PC

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H45-7	NGC 436	Cas	Open Cluster 10.0 I 2 m	CL,S,IF,PC
Sep 19 2004	8"	7.5mmW	TYPICAL CLUSTER	
Oct 21 2012	8"	11mmT6	PF,PS,STARS=12-15,R=F	
Nov 26 2006	1.9"	12x50	F,PS,DIM PATCH,R=F	
H46-5	NGC 3556	UMa M108	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
May 23 2015	12"	11mmT6		
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	FB,FL,EL,EON,RNUC,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 08 2007	1.9"	12x50	F,S,EON,NND,R=F	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jul 15 2015	12"	17mmT4		
Dec 26 2003	8"	25mmPL	Q/M COLD	
Aug 20 2006	1.9"	12x50	PF,PS,OVAL,NND,R=F	
Apr 20 2018	12"	11mmT6		
H46-7	NGC 654	Cas	Open Cluster 10.0 II 2 r	CL,IF,RI,1*6.7,
Sep 15 2004	8"	11mmT6	FEWER STARS	
Oct 21 2012	8"	11mmT6	F,S,LOOSE,STARS=15-20,R=F	
H47-1	NGC 6712	Sct	Globular	GCL,PB,VL,IRR,RRR
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
Jul 21 2007	1.9"	12x50	F,PS,R=F	
Jul 15 2006	8"	19mmW	PB,PS,R=G	
Aug 13 2007	31"	31mmT5	PB,PS,R=G, RESOLVE OUTER STARS	
H47-5	NGC 3079	UMa	Galaxy SB(s)c sp	VB,L,ME135
Mar 04 2006	8"	11mmT6	PF,FL,EON,NND,R=F	
H47-7	NGC 1502	Cam	Open Cluster 7.0 I 3 m	CL,PRI,CC,IF
Oct 06 2004	8"	11mmT6	OVAL,HISB,R=E	
Nov 26 2006	1.9"	12x50	COMPACT, BRIGHT, R=G	
H48-1	NGC 6356	Oph	Globular	GCL,VB,CL,VGVMBM,RRR
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
Jul 23 2016	12"	8mm Et	F,S,R=F. DID NOT RESOLVE	
Jul 21 2007	1.9"	12x50	PF,S,PATCH,R=F	
Jul 15 2006	8"	19mmW	PB,PS,R=G, DIM STARS	
H48-7	NGC 559	Cas	Open Cluster 9.0 I 1 m	CL,B,PL,PRI
Oct 21 2012	8"	11mmT6	B,S,V-SHAPE W/V-TOWARDSNE,SOME NEBULOSITY NOTED,R=G	
Oct 06 2004	8"	7.5mmW	HISB,R=F	
H49-7	NGC 637	Cas	Open Cluster 8.0 I 2 m	CL,PS,B\$VF ST
Oct 21 2012	8"	11mmT6	B,S,Y-SHAPED STARS=10-12,SOME NEBULOSITY NOTED,R=G	
Oct 06 2004	8"	7.5mmW	R=F, NOT MANY STARS	
H50-2	NGC 3607	Leo	Galaxy SA(s)0⁺:	VB,L,R,VMBM,2ND OF 3
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
Apr 26 2006	8"	11mmT6	PB,L,R,BNUC,HISB,R=G	
H50-4	NGC 6229	Her	Globular	GCL,VB,L,R,DISC,R
Oct 24 2012	8"	11mmT6	PF,PS,R=F, THIS WAS THE FAINTEST OF THE FOUR FOR THE NIGHT.	
May 30 2016	12"	8mm Ds	B,S,R=G. NICE SPOT.	

Herschel 400 (I) Observations

H50-4	NGC 6229	Her	Globular	GCL,VB,L,R,DISC,R
May 30 2016	12"	8mm Ds	B,S,R=G. NICE SPOT.	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
Jun 17 2016	12"	8mm Ds	COULD NOT RESOLVE	
H51-2	NGC 3608	Leo	Galaxy E2	B,PL,R,PSBM,3RD OF 3
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
Apr 26 2006	8"	11mmT6	B,CL,OVAL,NND,R=F	
H51-4	NGC 6818	Sgr	Planetary Neb 4	PLN,B,VS,R
Sep 19 2014	12"	11mmT6	B,S,ROUND DOT, HOME - 8/14/14	
Jul 09 2005	8"	11mmT6	VB,VS,R,R=G	
H51-7	NGC 7062	Cyg	Open Cluster 10.1 II 2 m	CL,PS,PRI,PC,ST13...
Jul 23 2006	8"	19mmW	PB,PS,R=F	
H52-1	NGC 7006	Del	Globular	B,PL,R,GBM
Oct 21 2006	31"	20mmUW	FB,L,STELLAR, RESOLVE OUTERMOST STARS.	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jul 23 2006	8"	7.5mmW	VF,CS,R,R=F	
H52-2	NGC 3626	Leo	Galaxy S0-a	B,S,VLE,SBM
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
Apr 26 2006	8"	11mmT6	B,PS,OVAL,FNUC,MSB,R=F	
H52-5	NGC 3359	UMa	Galaxy SB(rs)c	PB,L,E0,GLBM
Apr 09 2010	12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G	
H53-1	NGC 7331	Peg	Galaxy SA(s)b	B,PL,PME163,SMBM
Sep 13 2009	12"	32mmUW	3RD OBJECT	
Sep 10 2015	12"	7mm TV	F,PS,EON,FNUC,R=G	
Sep 02 2016	12"	5.5mmN	PF,PS,EON,BNUC,R=E. SQM-19.96. 56 DEGREES AT 2125 HOURS	
Oct 21 2012	8"	11mmT6	SMALL SPINDLE, NOT ENOUGH APERATURE OR DARK ENOUGH SKIES.	
Oct 07 2010	12"	17mmAT	F,PS,EON,BNUC,HSB,R=G,PA=10	
Jul 23 2006	8"	11mmT6	PB,PL,EON,FNUC,R=G	
Jul 16 2004	31"	20mmUW	9.5 PHOTO MAG. BRIGHTER YET.	
Jul 16 2004	8"	25mmPL	9.5 PHOTO MAG. BRIGHT	
Jul 13 2013	18"	7mm TV	EYE CANDY. ALWAYS GREAT TO LOOK AT.	
Aug 21 2015	12"	8mm Ds		
H53-4	NGC 1501	Cam	Planetary Neb 3	PLN,PB,PS,VLE,1'DIAM
Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G	
H53-7	NGC 7209	Lac	Open Cluster 9.0 III 1 m	CL,L,CRI,PC,ST9...12
Nov 09 2006	8"	19mmW	LARGE AND LOOSE,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jul 24 2006	8"	11mmT6	PB,PS,R=G	
Jul 21 2007	1.9"	12x50	PB,PL,R=G	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
H54-4	NGC 4143	CVn	Galaxy SAB(s)0^	CB,R,VG,VSBMN
Mar 29 2006	8"	19mmW	DIFF,F,L,OVAL,NND,R=F	
H55-1	NGC 7479	Peg	Galaxy SB(s)c	PB,CL,ME12,BET2ST
Sep 24 2016	12"	8mm Et	F,S,R,UB,NND,R=F	
Sep 19 2004	8"	7.5mmW	VF,EL,NND,R=F	
H55-2	NGC 4394	Com	Galaxy (R)SB(r)b	PB,LE,BM
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Apr 26 2006	8"	11mmT6	PF,PS,R,NND,R=F	

Herschel 400 (I) Observations

H55-2	NGC 4394	Com	Galaxy (R)SB(r)b	PB,LE,BM
Apr 26 2006	8"	11mmT6	PF,PS,R,NND,R=F	
Apr 20 2018	12"	11mmT6		
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H55-7	NGC 7762	Cep	Open Cluster 11.0 II 2 m	CL,PRI,PC,*11...15
Nov 13 2007	8"	11mmT6	PF,PS,FAINT,R=F	
H56-1	NGC 2903	Leo	Galaxy SAB(rs)bc	CB,VL,E,GMBM,R,SPOF2
May 12 2004	8"	25mmPL	L.P. LOUSY-MAG. 9.5 TOPS! MSV5	
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
Feb 17 2012	18"	11mmT6	OBSERVED WITH 18" ASTROSYSTEMS	
Apr 26 2006	8"	19mmW	PB,PL,EL,EON,BNUC,HISB,R=G	
Apr 20 2018	12"	11mmT6		
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**	
H56-2	NGC 4450	Com	Galaxy SA(s)ab	B,L,R,GVMBM*,R,B*SP
May 17 2005	31"	11mmT6	MF,MS,OVAL,NND,R=F	
H56-4	NGC 4051	UMa	Galaxy SAB(rs)bc	B,VL,E,VGVSMBM*11
Mar 18 2007	8"	11mmT6	PF,L,R,NND,AV,R=F	
H56-7	NGC 7790	Cas	Open Cluster 10.0 II 2 m	CL,PRI,PC
Sep 15 2004	8"	11mmT6	LIGHT CLOUDS IN & OUT	
H56-8	NGC 6910	Cyg	Open Cluster 9.6 I 3 m n	CL,PB,PS,P,PC,*20.12
Oct 08 2006	1.9"	12x50	PF,PS,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jul 23 2006	8"	19mmW	CB,PS,R=F,BRIGHTER,TIGHTER	
H57-7	NGC 2192	Aur	Open Cluster 14.0 II 2 m	CL,CL,C,IF,ST VS
Jan 26 2006	8"	19mmW	R=F, SMALL, LOOSE , GROUP	
H58-4	NGC 40	Cep	Planetary Neb 3b+3	F,VS,R,VSMBM,*12SP
Oct 06 2004	8"	7.5mmW	MB,R,R=G	
Oct 05 2016	12"	11mmT6	B,VS,R=G. OIII HELPS. NOT SURE ABOUT CENTRAL STAR	
Nov 11 2009	12"	7.5mmW	B,PS,R=G, CENTRAL STAR VISIBLE	
H58-7	NGC 2479	Pup	Open Cluster III 1 m	CL,PL,PRI,PC,ST S
Mar 13 2007	8"	19mmW	F,S,R=F,LOOSE GROUP	
H58-8	NGC 6997	Cyg	Open Cluster III 2 m n	CL,P,LC,ST L
Nov 13 2007	8"	11mmT6	PF,PS,LOOSE GROUP, R=F	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
Aug 23 2004	8"	11mmT6	DAMP - SEEING NOT TOO BAD.	
H59-7	NGC 6866	Cyg	Open Cluster 10.0 II 2 r	CL,L,VRI,CC
Jul 23 2006	8"	19mmW	PB,PS,R=F,EXTENDED GROUP	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
H59-8	NGC 1664	Aur	Open Cluster 10.0 III 1 p	CL,LRI,LC,PL
Jan 26 2006	8"	19mmW	R=F,NOT TOO BAD	
Dec 28 2006	1.9"	12x50	F,S,PATCHY,AV,UNRESOLVED,R=F	
H60-4	NGC 3310	UMa	Galaxy SAB(r)bc pec	CB,PL,R,VG,VSMBMN
Mar 13 2007	8"	11mmT6	CB,PS,R,FNUC,R=G	
H60-7	NGC 1513	Per	Open Cluster 11.0 II 1 m	CL,L,VRI,PC,ST VL
Nov 21 2006	8"	11mmT6	F,L,COMPRESSED,R=F	
H60-8	NGC 2311	Mon	Open Cluster 12.0 III 2 m	CL,LC,NOT RI
Mar 29 2006	8"	19mmW	N.S.R=F	
H61-1	NGC 2974	Sex	Galaxy E4	B,CS,IR,BM,*9SP43"

Herschel 400 (I) Observations

H61-1	NGC 2974	Sex	Galaxy E4	B,CS,IR,BM,*9SP43"
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,R=F	
H61-4	NGC 3992	UMa M109	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	F,FS,OVAL,NND,R=F	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 09 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jul 15 2015	12"	17mmT4		
Apr 20 2018	12"	11mmT6		
H61-7	NGC 1528	Per	Open Cluster 10.0 II 2 m	CL,B,VRI,CC
Oct 09 2018	12"	8mm Et	B,L,R=F	
Nov 27 2006	1.9"	12x50	F,PS,COARSE GROUP,R=F	
Nov 21 2006	8"	11mmT6	PB,PL,LOOSE GROUP,R=G	
H61-8	NGC 1778	Aur	Open Cluster 10.1 III 2 p	CL,PC,LRI,IF,ST L
Jan 26 2006	8"	19mmW	R=P FEW STARS	
Dec 28 2006	1.9"	12x50	PF,PS,PATCHY,AV,UNRESOLVED,R=F	
H62-4	NGC 3982	UMa	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
Mar 18 2007	8"	11mmT6	PF,L,OVAL,NND,=F	
H62-7	NGC 6756	Aql	Open Cluster 13.0 I 1 m	CL,S,RI,LC,*11...12
Jul 08 2004	8"	25mmPL	DIM - LOOKS LIKE P.N. IN 8	
H63-1	NGC 1052	Cet	Galaxy E4	B,PL,R,MBM*12
Nov 21 2006	8"	11mmT6	B,L,R,FNUC,R=G	
H64-1	NGC 1084	Eri	Galaxy SA(s)c	VB,PL,E,GPMBM
Jan 26 2006	8"	11mmT6	MB,ML,OVAL,NND,R=F	
H64-4	NGC 2440	Pup	Planetary Neb 5+3	PLN,CB,NOT VWELL DEF
Mar 13 2007	8"	7.5mmW	F,PS,R=F,IRREGULAR IN SHAPE	
Feb 17 2012	18"	7mm TV	OIII FILTER - VERY NICE PLANETARY	
H64-8	NGC 381	Cas	Open Cluster 10.0 III 1 m	CL,PC
Sep 15 2004	8"	11mmT6	LIGHT CLOUDS IN & OUT	
H65-1	NGC 4361	Crv	Planetary Neb 3a+2	VB,L,R,VSMBMN,R
May 04 2005	8"	11mmT6	VF,VS,R,AV,R=F	
H65-2	NGC 4429	Vir	Galaxy SA(r)0+	B,L,CE,PSBM,*10NF
Apr 26 2006	8"	11mmT6	F,PS,EL,OVAL,UB,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H65-8	NGC 659	Cas	Open Cluster 10.0 I 2 m	CL,LRI,ST B
Sep 15 2004	8"	11mmT6	SMALLEST OF THREE IN GROUP	
Oct 21 2012	8"	11mmT6	PF,PS,STARS=10-12,R=F	
H66-7	NGC 7142	Cep	Open Cluster 11.0 I 2 r	CL,CL,CRI,PC,*11..14
Nov 03 2004	8"	11mmT6		
H66-8	NGC 1027	Cas	Open Cluster 9.0 II 3 m n	CL,L,SC ST,ONE10M
Oct 06 2004	8"	7.5mmW	R=F, SCATTERED STARS	
Nov 03 2004	8"	11mmT6		
H67-1	NGC 3962	Crt	Galaxy E1	CB,PL,IR,GMBM,TRI2*
Apr 26 2006	8"	19mmW	PF,PS,OVAL,NND,R=F	
H67-7	NGC 2421	Pup	Open Cluster 11.0 I 2 r	CL,L,CRI,*11...13

Herschel 400 (I) Observations

H67-7	NGC 2421	Pup	Open Cluster 11.0 I 2 r	CL,L,CRI,*11...13
Mar 13 2007	8"	19mmW	F,PL,R=F,DIM PATCH	
H67-8	NGC 7160	Cep	Open Cluster 7.0 I 3 p	CL,P,VLC
Nov 09 2006	8"	19mmW	VS, COMPRESSED,R=F	
Jul 24 2006	8"	11mmT6	PB,S,R=F	
Jul 21 2007	1.9"	12x50	PF,PS,AV,R=F	
Aug 23 2004	8"	11mmT6	DAMP - SEEING NOT TOO BAD.	
H68-1	NGC 4856	Vir	Galaxy SB(s)0/a	B,R,PSMBM,*13NP
Apr 28 2006	31"	19mmW	CB,CL,EL,EON,BNUC,MSB,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
H68-4	NGC 2950	UMa	Galaxy (R)SB(r)0^A	B,PS,R,VGVMBMN
Mar 04 2006	8"	11mmT6	PB,PS,R,FNUC,,R=G	
H68-8	NGC 2126	Aur	Open Cluster 13.0 III 2 m	CL,NOT RI,*7M NORTH
Jan 26 2006	8"	19mmW	R=F, SMALL, LOOSE , GROUP	
H69-8	NGC 7686	And	Open Cluster 7.0 III 2 p	CL,P,LC,*7...11
Oct 06 2004	8"	11mmT6	EB,OVAL,HISB,R=G	
H70-1	NGC 5634	Vir	Globular	GCL,VB,CL,R,GBM,RRR
May 30 2016	12"	8mm Et	F,S,R=F	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
Apr 28 2006	31"	19mmW	PB,CL,R,R=G, CAN'T RESOLVE STARTS. VIII	
Apr 14 2016	12"	11mmT6	SURPRISE IN VIRGO.	
H71-2	NGC 4660	Vir	Galaxy E:	VB,S,VSVMBMN
Apr 13 2005	8"	11mmT6	MF,VS,OVAL,NND,R=G	
H71-8	NGC 2281	Aur	Open Cluster 8.0 I 3 m	CL,PRI,VLC,ST PL
Nov 26 2006	1.9"	12x50	B,S,RESOLVE 4-5+,R=G	
Nov 09 2006	8"	19mmW	F,PS,R=F	
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**	
H72-8	NGC 6633	Oph	Open Cluster 8.0 III 2 m	CL,LC,ST L
Oct 08 2006	1.9"	12x50	N.F.:R=G, DENSER GROUP	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
Jul 15 2006	8"	32mmUW	VB,VL,LOOSE CLUSTER	
Jul 02 2017	12"	17mmT4	LOOSE CLUMP	
H73-1	NGC 4150	Com	Galaxy SA(r)0^A?	B,S,R,PGMBM
Mar 29 2006	8"	11mmT6	B,L,R,FNUC,R=F	
H73-4	NGC 6826	Cyg	Planetary Neb 3a+2	PLN,B,PL,R,*11M
Sep 04 2004	8"	11mmT6	FAINT	
Oct 13 2006	8"	19mmW	VF,PS,R=F	
Nov 13 2007	8"	11mmT6	PB,PS,R,R=G, NO CENTRAL STAR	
Jul 19 2017	12"	11mmT6	F,PS,R=G. SQM=20.01. 71 DEGREES OUT.	
Aug 13 2010	31"	17mmT4	B,S,R=F, CENTRAL STAR OBSERVED AND NOTED	
H74-1	NGC 4245	Com	Galaxy SB(r)0/a:	CB,PL,VLE,SMBM,R
May 17 2005	31"	11mmT6	MF,VS,R,NND,R=F	
H74-4	NGC 7023	Cep	Nebula R	*7IN EF,EL,NEBY
Nov 13 2007	8"	19mmW	PF,PS,HINT OF NEBULOSITY,R=F	
Jul 08 2018	12"	17mmT4	B,L,R=E. IRIS NEBULA	
H75-1	NGC 4274	Com	Galaxy (R)SB(r)ab	VB,VL,E90,MBMN
May 17 2005	31"	11mmT6	PF,PS,OVAL,NND,R=F	
H75-2	NGC 4762	Vir	Galaxy SB(r)0^A? 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
Apr 28 2006	31"	19mmW	CB,VL,EON,BNUC,VHISB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H75-8	NGC 7243	Lac	Open Cluster 8.0 II 2 m	CL,L,P,LC,ST VL
Nov 09 2006	8"	19mmW	TIGHTER,HINT OF NEB.,R=F	
Jul 24 2006	8"	11mmT6	PB,PL,R=G	
Jul 21 2007	1.9"	12x50	PB,PL,R=G	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
H76-1	NGC 4314	Com	Galaxy SB(rs)a	CB,L,E150,SBM,*NP
May 17 2005	31"	11mmT6	PB,PS,OVAL,FNUC,MSB,R=G	
H76-4	NGC 6946	Cep	Galaxy SAB(rs)cd	VF,VL,VG,VSBM,RR
Oct 10 2004	8"	11mmT6	MF,OVAL,PATCH,NND,R=F	
Nov 03 2004	8"	11mmT6	MB,OVAL,NND,MSB,R=G	
Aug 31 2010	12"	7mm TV	DIFF,PF,S,OVAL,MEXT,UB,NND,R=G. PA=180	
H77-1	NGC 4414	Com	Galaxy SA(rs)c?	VB,L,E,G,VSBM*
May 17 2005	31"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G	
H77-8	NGC 7380	Cep	Open Cluster 10.0 III 2 m n	CL,PL,PRI,LC,*9...13
Jul 24 2006	8"	11mmT6	PB,CS,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H78-1	NGC 2985	UMa	Galaxy (R')SA(rs)ab	VB,CL,R,PSMBM,*INV F
Mar 04 2006	8"	11mmT6	PB,FS,OVAL,FNUC,R=G	
H78-8	NGC 225	Cas	Open Cluster 9.3 III 1 p n	CL,L,LC,*9...10
Sep 24 2016	12"	11mmT6	B,L,R=F. SAILBOAT CLUSTER	
Sep 15 2004	8"	11mmT6	LIGHT CLOUDS IN & OUT	
Oct 21 2012	8"	11mmT6	PF,PS,STARS=22-30,R=G	
Jul 08 2018	12"	17mmT4	B,S,R=G	
Dec 05 2015	12"	17mmT4		
H79-1	NGC 3147	Dra	Galaxy SA(rs)bc	VB,L,R,VGVSVMBM
Sep 02 2016	12"	8mm Et	PF,PS,R,FNUC,R=F, 2 STARS TO SOUTHEAST.	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
Jul 25 2017	12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F	
Jul 23 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F	
H79-4	NGC 3034	UMa M82	Galaxy I0 sp	VB,VL,VME(RAY)
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
May 14 2017	12"	11mmT6	EXCELLENT	
May 04 2005	8"	19mmW	VB,ML,EL,EON,BNUC,VHISB,R=E!	
Mar 30 2014	28"	17mmAT	SUPER NOVA IN M-82. NEAT TO SEE. M-82 LOOKED GREAT WITH THE DUST LANES	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	PB,PL,EON,FNUC,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 08 2007	1.9"	12x50	FB,FS,OVAL,NND,R=F	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jul 25 2017	12"	11mmT6	NOT BAD	
Jul 01 2016	12"	8mm Et	EYE CANDY	
Feb 28 2004	8"	25mmPL	COMPTER = ARGO NAVIS	
Dec 30 2003	8"	25mmPL	H/M COLD	

Herschel 400 (I) Observations

H79-4	NGC 3034	UMa M82	Galaxy I0 sp	VB,VL,VME(RAY)
Dec 30 2003	8"	25mmPL	H/M COLD	
Aug 20 2006	1.9"	12x50	PB,L,OVAL,FNUC,R=G	
Apr 20 2018	12"	11mmT6		
Apr 14 2016	12"	8mm Ds	F,S,PEXT,NND,R=G,BRIGHT KNOT ON ONE END.	
Apr 14 2004	31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL	
Apr 05 2004	8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**	
H79-8	NGC 129	Cas	Open Cluster 11.0 III 2 m	CL,VL,PR,LC,*9...13
Oct 21 2012	8"	11mmT6	B,L,R=G	
Oct 06 2004	8"	7.5mmW	OVAL,R=G	
Nov 26 2006	1.9"	12x50	F,L,DIM,RESOVLE 2-3 STARS,R=F	
Nov 09 2006	8"	19mmW	20+, LOOSE, SOME NEB. R=F	
H80-8	NGC 1444	Per	Open Cluster 6.8 IV 1 p	CL OF AB30*12...14
Nov 21 2006	8"	11mmT6	F,PS,COMPRESSED,R=F	
H81-1	NGC 3344	LMi	Galaxy (R)SAB(r)bc	CB,L,GBM,*INV,2ST F
May 15 2017	12"	7mm TV	F,PS,OVAL,UB,NND,R=G. 3 STARS SUPERIMPOSED ON GALAXY.	
Mar 23 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Mar 13 2007	8"	11mmT6	PF,CL,OVAL,FNUC,R=F	
H82-1	NGC 3900	Leo	Galaxy SA(r)0+	B,PL,VLE0,BMN
Mar 29 2006	8"	11mmT6	F,L,OVAL,NND,R=F	
H83-1	NGC 4494	Com	Galaxy E1-2	VB,PL,R,VSMBMN
Apr 26 2006	8"	11mmT6	FB,FL,OVAL,FNUC,R=F	
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
H85-8	NGC 1545	Per	Open Cluster 9.0 IV 2 p	CL,PRI,LC,ST L
Nov 21 2006	8"	11mmT6	B,L,VERY LOOSE,R=F	
H86-1	NGC 3245	LMi	Galaxy SA(r)0^:?	VB,PL,E0, SMBMEN
May 25 2014	18"	8mm Ds	PF,PS,OVAL,MEXT,BNUC,R=G	
Mar 23 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,R=F	
H86-2	NGC 4350	Com	Galaxy SA0 sp	CB,VS,ME,VSBM
May 17 2005	31"	11mmT6	MB,PS,EL,OVAL,FNUC,MSB,R=G	
Mar 30 2014	18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=P	
H87-1	NGC 3486	LMi	Galaxy SAB(r)c	CB,CL,R,GMBM
May 15 2017	12"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
Mar 23 2004	8"	25mmPL	COMPUTER = ARGONAVIS	
Mar 13 2007	8"	11mmT6	VF,CL,R,NND,AV,R=F	
H88-1	NGC 3504	LMi	Galaxy (R)SAB(s)ab	B,L,E,MBMN,RR,P OF 2
Mar 29 2006	8"	11mmT6	F,S,R,UB,R=F	
H88-8	NGC 1342	Per	Open Cluster 8.0 III 2 m	CL,VL,AB60*
Oct 29 2006	8"	19mmW	B,COARSE CL, R,R=F	
Nov 21 2006	8"	11mmT6	B,L,LOOSE,30+STARS,R=G	
H89-1	NGC 4251	Com	Galaxy SB0? sp	VB,S,E,VSMBMN,*F90S
May 17 2005	31"	11mmT6	MB,ML,EL,EON,FNUC,MSB,R=G	
H90-1	NGC 4278	Com	Galaxy E1-2	VB,PL,R,MBM,R,1STOF3
May 17 2005	31"	11mmT6	PB,PL,R,BNUC,R=G	
Apr 16 2009	16"	17mmT4	PB,PS,R,FNUC,HSB,R=G	
H91-1	NGC 4448	Com	Galaxy SB(r)ab	B,L,E90,SBM
May 17 2005	31"	19mmW	VF,PS,EL,NND,R=G	

Herschel 400 (I) Observations

H91-1	NGC 4448	Com	Galaxy SB(r)ab	B,L,E90,SBM
May 17 2005	31"	19mmW	VF,PS,EL,NND,R=G	
H92-1	NGC 4559	Com	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Apr 13 2005	8"	7.5mmW	MB,ML,EL,FNUC,R=G	
H94-1	NGC 3813	UMa	Galaxy SA(rs)b:	CB,PL,PME90,BM
Mar 17 2007	8"	11mmT6	CF,CS,OVAL,NND,R=F	
H95-1	NGC 4214	CVn	Galaxy IBm	CB,CL,IE,BIN
Mar 29 2006	8"	11mmT6	F,PS,R,NND,R=F	
H96-1	NGC 5005	CVn	Galaxy SAB(rs)bc	VB,VL,VME66,VSBMN
Apr 26 2006	8"	11mmT6	PB,PL,EON,BNUC,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
Apr 06 2010	12"	11mmT6	PB,PS,EON,BNUC,R=G	
H97-1	NGC 5033	CVn	Galaxy SA(s)c	VB,PL,E167,SMBMVBN
Apr 26 2006	8"	11mmT6	B,L,EON,ND,R=F	
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
Apr 06 2010	12"	11mmT6	PF,PS,EXT,OVAL,UB,NND,R=F	
H98-1	NGC 5273	CVn	Galaxy SA(s)0^A	CB,PL,R,G,PSMBM
Mar 29 2006	8"	11mmT6	PF,PS,R,NND,AV,R=F	
H99-1	NGC 5557	Boo	Galaxy E1	CB,S,R,VSBM*
Mar 29 2006	8"	11mmT6	F,S,R,FNUC,R=F	
H99-2	NGC 3377	Leo	Galaxy E5-6	VB,CL,LE,SVMBMBN
May 15 2017	12"	7mm TV	PF,PS,OVAL,FNUC,R=G	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Apr 26 2009	16"	17mmT4	PF,PS,OVAL,FNUC,R=F	
Apr 26 2006	8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H100-1	NGC 584	Cet	Galaxy E4	VB,PL,R,MBM,P OF 2
Nov 21 2006	8"	11mmT6	B,PS,OVAL,FNUC,R=G	
H101-1	NGC 779	Cet	Galaxy SAB(r)b	CB,L,ME162,MBM
Nov 21 2006	8"	11mmT6	F,L,EON,NND,R=F	
H101-2	NGC 3489	Leo	Galaxy SAB(rs)0⁺	VB,PL,LE80,SMBMN
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Apr 26 2006	8"	11mmT6	FB,FS,OVAL,UB,FNUC,R=G	
H102-1	NGC 1022	Cet	Galaxy (R')SB(s)a	CB,PL,R,MBM,*11NF 2'
Nov 21 2006	8"	11mmT6	PF,L,OVAL,NND,R=F	
H103-1	NGC 6934	Del	Globular	GCL,B,L,R,RRR,*16...
Oct 25 2009	12"	11mmT6	PB,PS,R=G. RESOLVE OUTER STARTS ONLY	
Oct 08 2006	1.9"	12x50	F,S,R=F, SMALL SMUDGE.	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jul 23 2006	8"	7.5mmW	PB,CS,R,R=G	
Aug 31 2008	31"	17mmT4	PB,PS,R=G	
Aug 20 2006	1.9"	12x50	B,L,R=G	
H104-1	NGC 7606	Aqr	Galaxy SA(s)b	PF,CL,PME0
Oct 06 2004	8"	11mmT6	MB,EL,EON,NND,R=G	
H105-1	NGC 720	Cet	Galaxy E5	CB,PL,LE,PSMBM
Nov 21 2006	8"	11mmT6	B,PS,OVAL,NND,R=F	
H107-1	NGC 1407	Eri	Galaxy E0	VB,L,R,SVMBMN

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H107-1	NGC 1407	Eri	Galaxy E0	VB,L,R,SVMBMN
Nov 21 2006	8"	11mmT6	PF,L,R,NND,R=G	
Nov 08 2010	12"	11mmT6	PF,PS,R,BNUC,R=G	
H110-1	NGC 7723	Aqr	Galaxy SB(r)b	CB,CL,E,GMBM,R
Oct 06 2004	8"	11mmT6	MB,OVAL,NND,R=G	
H111-1	NGC 7727	Aqr	Galaxy SAB(s)a pec	PB,PL,IR,MBM
Oct 06 2004	8"	11mmT6	MB,OVAL,FNUC,R=G	
H112-1	NGC 772	Ari	Galaxy SA(s)b	B,CL,R,GBM,R
Nov 03 2004	8"	11mmT6	MF,EL,OVAL,NND,R=F	
Dec 04 2004	8"	11mmT6	MB,EL,OVAL,NND,MSB,R=G	
H113-2	NGC 4419	Com	Galaxy SB(s)a sp	B,PME135,SBM
May 17 2005	31"	11mmT6	MB,ML,EL,EON,FNUC,MSB,R=G	
H114-1	NGC 2964	Leo	Galaxy SAB(r)bc:	B,VL,LE,VGBM,SP OF 3
Feb 10 2005	8"	11mmT6	MB,ML,EL,OVAL,PATCHY,NND,MSB,R=G	
H114-2	NGC 4473	Com	Galaxy E5	PB
May 14 2017	12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=G	
Apr 26 2006	8"	11mmT6	PB,CS,OVAL,FNUC,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H115-2	NGC 4477	Com	Galaxy SB(s)0:?	PB,CL
May 14 2017	12"	11mmT6	PF,PS,R,FNUC,R=G	
Apr 26 2006	8"	11mmT6	PB,CS,R,FNUC,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H116-1	NGC 3395	LMi	Galaxy SAB(rs)cd pec:	CB,PS,ILE,1ST OF 2
May 15 2017	12"	7mm TV	VF,PS,OVAL,MEXT,UB,NND,R=G. PAIRED W/NGC3396	
Mar 29 2006	8"	11mmT6	PF,PS,EL,OVAL,NND,R=F	
Mar 04 2006	8"	11mmT6	VF,VS,R,NND,R=F	
H120-2	NGC 4548	Com M91	Galaxy SB(rs)b	B,L,LE,LBM
May 06 2007	1.9"	12x50	VF,S,OVAL,NND,R=F	
Mar 26 2006	8"	19mmW	B,L,EON,NND,R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Apr 26 2006	8"	11mmT6	B,L,EON,NND,R=F	
H121-1	NGC 4030	Vir	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR
Apr 04 2005	8"	11mmT6	MB,OVAL,FNUC,MSB,R=G	
H124-2	NGC 4478	Vir	Galaxy E2	PB,S,R,PSBM,2ND OF 3
Apr 05 2005	8"	7.5mmW	MB,MS,R,FNUC,MSB,R=G	
H126-1	NGC 5746	Vir	Galaxy SAB(rs)b? sp	B,L,VME170,BMBN
May 04 2005	8"	11mmT6	VB,VL,EL,EON,FNUC,R=G	
H126-2	NGC 4654	Vir	Galaxy SAB(rs)cd	F,VL,PME,(D),3*NR
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 08 2005	8"	11mmT6	VF,ML,NND,R=F	
H128-1	NGC 5846	Vir	Galaxy E0-1	VB,PL,R,PSBMN,F*INVS
May 19 2010	12"	7.5mmW	PF,PS,R,FNUC,R=G	
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	

Herschel 400 (I) Observations

H128-1	NGC 5846	Vir	Galaxy E0-1	VB,PL,R,PSBMN,F*INVS
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
Apr 28 2006	31"	19mmW	CB,CL,R,FNUC,R=G	
H128-2	NGC 4689	Com	Galaxy SA(rs)bc	PB,VL,E,VGLBM,R
May 04 2005	8"	11mmT6	MF,ML,R,NND,R=F	
H129-1	NGC 4699	Vir	Galaxy SAB(rs)b	VB,R,VMBMRN,R
Apr 28 2006	31"	19mmW	CB,CL,OVAL,BNUC,HISB,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
H130-1	NGC 4958	Vir	Galaxy SB(r)0? sp	VB,PS,E,BMBN
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	CB,P,EON,BNUC,HISB,R=G	
H134-1	NGC 4781	Vir	Galaxy SB(rs)d	CB,VL,ME
Apr 13 2005	8"	11mmT6	MF,ML,EL,NND,R=F	
H137-1	NGC 2859	LMi	Galaxy (R)SB(r)0+	VB,PL,R,SMBM
Mar 13 2007	8"	11mmT6	PF,S,R,NND,R=F	
H139-1	NGC 4303	Vir M61	Galaxy SAB(rs)bc	VB,VL,VSBM*,BIN
May 06 2007	1.9"	12x50	PB,PS,OVAL,NND,R=G	
Mar 26 2006	8"	19mmW	DIFF,F,L,OVAL,NND,R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
H139-2	NGC 4261	Vir	Galaxy E2-3	PB,PS,R,GBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 26 2006	8"	11mmT6	B,L,OVAL,FNUC,MSB,R=G	
Apr 14 2016	12"	11mmT6	PF,PS,R,FNUC,R=F	
H142-1	NGC 4664	Vir	Galaxy SB(s)0/a	PB,2S*IN M,(=4665)
Jun 07 2010	12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
Apr 14 2016	12"	11mmT6	PF,PS,R,UB,NND,R=G	
H143-1	NGC 4900	Vir	Galaxy SB(rs)c	CB,CE,*10ATT POS135
Apr 28 2006	31"	19mmW	FB,PL,R,UB,NND,R=F	
H144-1	NGC 5566	Vir	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
May 30 2016	12"	8mm Ds	PF,PS,PEXT,FNUC,R=G	
May 23 2012	18"	8.8 ES	PB,PS,OVAL,PEXT,BNUC,R=G, PAIRED WITH NGC-5569	
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	CB,CL,EON,BNUC,HISB,R=G	
H146-1	NGC 5576	Vir	Galaxy E3	B,S,R,VSBM,F OF 2
May 30 2016	12"	7mm TV	F,PS,OVAL,MEXT,FNUC,R=F	
Apr 28 2006	31"	19mmW	B,L,OVALBNUC,HISB,R=G	
H149-1	NGC 6342	Oph	Globular	CB,PS,LE,ER
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
Jul 15 2006	8"	19mmW	VF,PS,R=F, DIM, UNRESOLVED.	
Jul 01 2016	12"	7mm TV	PF,PS,R=F	
H151-1	NGC 524	Psc	Galaxy SA(rs)0+	VB,PL,MBM,4S*NR
Nov 21 2006	8"	11mmT6	PF,S,R,NND,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	

Herschel 400 (I) Observations

H151-1	NGC 524	Psc	Galaxy SA(rs)0+	VB,PL,MBM,4S*NR
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H153-1	NGC 908	Cet	Galaxy SA(s)c	CB,VL,E
Nov 21 2006	8"	11mmT6	PF,L,OVAL,NND,R=F	
H156-1	NGC 1023	Per	Galaxy SB(rs)0-	VB,VL,VME,VVMBM
Sep 09 2010	12"	17mmAT	B,S,EON,BNUC,R=G,PA=165	
Oct 10 2004	8"	11mmT6	MB,EL,RNUC,R=G	
H156-2	NGC 4442	Vir	Galaxy SB(s)0^	VB,PL,R,SMBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 26 2006	8"	11mmT6	PB,CS,EON,FNUC,R=G	
H157-1	NGC 672	Tri	Galaxy SB(s)cd	F,PL,ME80
Oct 29 2008	16"	17mmT4	PF,PS,EON,FNUC,R=F	
Nov 24 2006	31"	20mmUWB,PL,EON,UB,NND,R=F		
Nov 10 2007	31"	17mmT4	PB,CL,EON,UB,NND,R=G	
Nov 09 2004	8"	11mmT6	VF,EL,NND,AV,R=F	
H159-1	NGC 278	Cas	Galaxy SAB(rs)b	CB,PL,R,2*10NR
Oct 05 2016	12"	11mmT6	F,S,FNUC,R=G	
Jul 23 2006	8"	11mmT6	PF,CS,R,NND,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H160-1	NGC 4546	Vir	Galaxy SB(s)0-:	VB,CL,PME78,VSMBMN
Apr 26 2006	8"	11mmT6	F,L,OVAL,NND,R=F	
Apr 16 2004	8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
H160-2	NGC 3686	Leo	Galaxy SB(s)bc	PB,L,VLE,VGBM,R
Apr 26 2006	8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
Apr 20 2018	12"	11mmT6		
H161-1	NGC 4459	Com	Galaxy SA(r)0+	PB,PL,IR,BM,R,*8SF2'
Apr 26 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H162-1	NGC 4866	Vir	Galaxy SA(r)0+: sp	B,PL,ME90,SBMN,S*INV
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	CN.VL,EON,BNUC,MSB,R=G	
H163-1	NGC 3115	Sex	Galaxy S0- sp	VB,L,VME46,VGSMBMEN
Mar 15 2005	8"	11mmT6	VB,ML,EL,EON, FNUC,MSB,R=G	
H164-1	NGC 3294	LMi	Galaxy SA(s)c	CB,L,ME135,GLBM
May 15 2017	12"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
Mar 13 2007	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
H165-1	NGC 4151	CVn	Galaxy (R')SAB(rs)ab:	VB,S,R,VSMBMBN,P OF2
Mar 29 2006	8"	11mmT6	F,S,OVAL,NND,R=F	
H167-1	NGC 2782	Lyn	Galaxy SAB(rs)a pec	CB,R,MBMBN
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
H168-1	NGC 3184	UMa	Galaxy SBc	PB,VL,R,VGBM
Mar 13 2007	8"	11mmT6	VF,S,R,NND,AV,R=F	
H172-1	NGC 3432	LMi	Galaxy SB(s)m sp	PB,PL,VME40,**NR SP
May 15 2017	12"	7mm TV	PF,PS,EON,UB,NND,R=G	
Mar 29 2006	8"	11mmT6	F,L,EON,NND,R=F	
H173-1	NGC 3941	UMa	Galaxy SB(s)0^	VB,PL,R,SMBM*9
Mar 17 2007	8"	11mmT6	PB,CS,OVA,,BNUC,R=G	
H175-1	NGC 4203	Com	Galaxy SAB0-:	VB,S,R,PSMBM

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H175-1	NGC 4203	Com	Galaxy SAB0-:	VB,S,R,PSMBM
May 17 2005	31"	11mmT6	MB,ML,R,FNUC,MHS,R=G	
Apr 06 2010	12"	11mmT6	PB,PS, R,FNUC,R=G	
H176-1	NGC 4656	CVn	Galaxy SB(s)m pec	PB,L,VME34,SP OF 2
May 04 2005	8"	11mmT6	VF,ML,EL,EON,NND,R=F	
H177-2	NGC 5600	Boo	Galaxy Sc pec	PB,PS,GBM
Jul 01 2016	12"	8mm Et	PF,PS,OVAL,UB,NND,R=F	
Aug 03 2008	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
H178-1	NGC 4618	CVn	Galaxy SB(rs)m	B,L,E,MBM,CVDBRANCHN
Mar 29 2006	8"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
Apr 14 2010	16"	11mmT6	PF,PS,R,NND,R=F	
Apr 06 2010	12"	11mmT6	DIFF,PF,PS,R,NND,R=F	
H186-1	NGC 5195	CVn	Galaxy I0 pec	B,PS,LE,VGBM,INV-M51
May 30 2014	18"	8mm Ds	MORE DETAIL THAN THE 36". AT ZENITH	
May 30 2014	36"	17mmT4	GREAT VIEW.	
May 23 2015	12"	8mm Ds	COMPANION TO M51	
Jul 13 2013	18"	7mm TV	MORE EYE CANDY - MAYTAG GALAXY	
Aug 21 2015	12"	17mmT4		
Apr 26 2006	8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G	
Apr 20 2018	12"	11mmT6		
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
Apr 14 2016	12"	8mm Ds	F,PS,R,UB,NND,R=F,COULD NOT SEE LINK TO M51	
H188-1	NGC 5689	Boo	Galaxy SB(s)0/a:	CB,PL,E87,PSMBM
May 04 2005	8"	11mmT6	MB,ML,EL,FNUC,R=G	
H189-1	NGC 5676	Boo	Galaxy SA(rs)bc	B,L,E45,PGBM,R
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 26 2006	8"	11mmT6	F,L,EL,OVAL,NND,R=F	
H192-1	NGC 7008	Cyg	Planetary Neb 3	CB,L,E45,R,**ATT
Aug 02 2005	8"	19mmW	FB,FL,R=G, BEHIND STAR	
H193-1	NGC 650	Per M76	Planetary Neb 3+6	VB,P OF DNEB
Oct 09 2018	12"	8mm Et	F,S,R=E. LP2	
Oct 01 2006	1.9"	12x50	PF,PS,R,R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2006	8"	19mmW	PF,L,VLE,R=G	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Jul 24 2006	8"	11mmT6	PF,L,R,R=G	
Dec 26 2003	8"	25mmPL	Q/M COLD	
Dec 01 2004	31"	11mmT6	VB,HISB,R=E, SOLO EFFORT	
H194-1	NGC 3675	UMa	Galaxy SA(s)b	VB,CL,VME0,VSMBMN
Mar 17 2007	8"	11mmT6	PB,PL,EL,OVAL,BNUC,R=G	
H195-1	NGC 4111	CVn	Galaxy SA(r)0+: sp	VB,PS,ME151
Apr 13 2005	8"	11mmT6	VB,ML,EON,FNUC,MSB,R=G	
H195-2	NGC 6287	Oph	Globular	GCL,CB,L,R,GPMCM,RRR
May 30 2016	12"	8mm Ds	VF,PS,R=F	
Jul 15 2015	12"	8mm Ds		

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H195-2	NGC 6287	Oph	Globular	GCL,CB,L,R,GPMC,M,RRR
Jul 15 2015	12"	8mm Ds		
Jul 15 2006	8"	19mmW	CF,PS,R=F, DIM SMUDGE, NO STARS	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
H196-1	NGC 4138	CVn	Galaxy SA(r)0+	B,PL,E,VGBM,*NP
Mar 26 2009	16"	17mmT4	PB,PS,OVAL,FNUC,R=F	
H197-1	NGC 4485	CVn	Galaxy IB(s)m pec	B,PS,IR,NP OF 2
Mar 29 2006	8"	11mmT6	PF,PS,R,NND,R=F	
H198-1	NGC 4490	CVn	Galaxy SB(s)d pec	VB,VL,ME130,R,SF OF2
Mar 29 2006	8"	11mmT6	F,S,OVAL,FNUC,R=F	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
H199-1	NGC 3198	UMa	Galaxy SB(rs)c	PB,VL,ME45,VGBM
Mar 13 2007	8"	11mmT6	VF,S,EON,NND,AV,R=F	
H199-2	NGC 6517	Oph	Globular	PB,PL,R,RR
Jul 09 2005	8"	11mmT6	MF,ML,R=F	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
H200-1	NGC 2683	Lyn	Galaxy SA(rs)b	VB,VL,VME39,GMBM
Mar 13 2007	8"	11mmT6	PB,PL,EON,FNUC,R=G	
H201-1	NGC 3877	UMa	Galaxy SA(s)c:	B,L,ME37
Mar 17 2007	8"	11mmT6	PF,PL,EON,NND,R=F	
Apr 14 2010	16"	11mmT6	PB,PL,EON,FNUC,R=G	
H202-1	NGC 3949	UMa	Galaxy SA(s)bc:	CB,PL,PME,VGBM
Mar 17 2007	8"	11mmT6	PF,S,OVAL,NND,R=F	
H203-1	NGC 3938	UMa	Galaxy SA(s)c	B,VL,R,BMPBN,ER
Mar 17 2007	8"	11mmT6	DIFF,PF,PL,OVAL,NND,R=F	
H205-1	NGC 2841	UMa	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
Mar 04 2006	8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G	
H206-1	NGC 4088	UMa	Galaxy SAB(rs)bc	B,CL,E55,LBM
Mar 18 2007	8"	11mmT6	PF,L,EON,UB,NND,R=F	
H207-2	NGC 7217	Peg	Galaxy (R)SA(r)ab	B,PL,GBM,ER
Sep 24 2016	12"	8mm Et	B,S,R,FNUC,R=G	
Sep 15 2004	8"	7.5mmW	F.NND.AV.R=F	
Sep 14 2012	36"	17mmT4	B,S,R,BNUC,R=G, SPIRAL STRUCTURE NOTED	
Jul 16 2004	8"	25mmPL	10.2 PHOTO MAG. VERY FAINT	
H210-1	NGC 4346	CVn	Galaxy S0 sp	VF,S,ME100,VSMBMBN
Mar 29 2006	8"	11mmT6	F,S,EON,FNUC,R=F	
H211-1	NGC 4800	CVn	Galaxy SA(rs)b	PB,CS,R,PSBM,*14P
Mar 29 2006	8"	11mmT6	PF,PS,R,NND,R=F	
H213-1	NGC 4449	CVn	Galaxy IBm	VB,CL,ME,DORBIFID,*F
Mar 13 2007	8"	11mmT6	PB,PL,OVAL,FNUC,MHISB,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
H214-1	NGC 5474	UMa	Galaxy S(c)	PB,L,BM
Mar 18 2007	8"	11mmT6	VF,PS,R,NND,AV,R=F	
H215-1	NGC 5866	Dra M102	Galaxy SA0+ sp	VB,CL,PME146,GBM
Mar 26 2006	8"	19mmW	B,S,OVAL,FNUC,MSB,R=F	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 16 2012	18"	17mmAT	2012 M.M.	

Herschel 400 (I) Observations

H215-1	NGC 5866	Dra M102	Galaxy SA0+ sp	VB,CL,PME146,GBM
Mar 16 2012	18"	17mmAT	2012 M.M.	
Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
H216-1	NGC 2787	UMa	Galaxy SB(r)0+	B,PL,LE90,MBM,R,*INV
Mar 04 2006	8"	11mmT6	F,PS,R,NND,R=F	
H217-1	NGC 1579	Per	Nebula R	PB,VL,IR,MBM,*8 2'NF
Oct 31 2010	12"	11mmT6	PF,PS,R=F. FILTER NO HELP	
Oct 12 2012	18"	7mm TV	PF,S,NICE NEBULA,OIII NO HELP.R=G, FOUND LOOING FOR PAL2	
H218-1	NGC 2419	Lyn	Globular	PB,PL,LE90,VGBM,*4'F
Dec 04 2004	8"	7.5mmW	OVAL,R=G	
H219-1	NGC 3665	Leo	Galaxy SA(s)0^	CB,CL,IR,PGMBM
Mar 17 2007	8"	11mmT6	PB,L,OVAL,BNUC,R=G	
H221-1	NGC 3718	UMa	Galaxy SB(s)a pec	PB,VL,R,VGLBM
May 23 2012	18"	8.8 ES	F,S,OVAL,MEXT,UB,NND,R=F	
Feb 23 2006	31"	17mmT4	VB,VL,OVAL,BNUC,HISB,R=G	
H222-1	NGC 3729	UMa	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
Feb 23 2006	31"	17mmT4	FB,FL,R,BNUC,HISB,R=G	
H223-1	NGC 4026	UMa	Galaxy S0 sp	VB,CL,ME176,VSVMBMBN
Mar 18 2007	8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G	
H224-1	NGC 4085	UMa	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
Mar 18 2007	8"	11mmT6	VF,PS,EL,EON,NND,AV,R=F	
H224-2	NGC 404	And	Galaxy SA(s)0-:	PB,CL,R,GBM,
Oct 06 2004	8"	7.5mmW	VB,EL,OVAL,FNUC,R=G	
Oct 05 2016	12"	8mm Et	PF,S,R,UB,NND,R=F	
Dec 01 2004	31"	11mmT6	MB,OVAL,FNUC,MSB,R=G, SOLO EFFORT	
H225-1	NGC 4102	UMa	Galaxy SAB(s)b?	B,PS,R,BMBN,*12SPVNR
Mar 18 2007	8"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F	
H226-1	NGC 3631	UMa	Galaxy SA(s)c	PB,L,R,SVMBMRN
Mar 17 2007	8"	11mmT6	B,PL,R,FNUC,R=G	
H228-1	NGC 3898	UMa	Galaxy SA(s)ab	B,PL,LE,SVMBM
Mar 17 2007	8"	11mmT6	PB,PS,OVALFNUC,R=G	
H229-1	NGC 3998	UMa	Galaxy SA(r)0^?	CB,PS,R,VG,SMBM
Mar 18 2007	8"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G	
H231-1	NGC 5473	UMa	Galaxy SAB(s)0-:	PB,S,R,GBM
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Mar 18 2007	8"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
H233-2	NGC 7332	Peg	Galaxy S0 pec sp	CB,S,ME156,SMBMN,P-2
Sep 24 2016	12"	8mm Et	F,S,EON,BNUC,R=G	
Sep 14 2012	36"	17mmT4	F,S,EON,BNUC,HSB,R=E, VERY NEAR NGC-7339	
Oct 21 2006	31"	20mmUW	VB,PL,EON,VBNUC,R=G,PAIR W/N7339	
Aug 25 2009	16"	11mmT6	PB,PS,EON,BNUC,R=G	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H236-1	NGC 5631	UMa	Galaxy SA(s)0^	B,S,R,PSBMN
Mar 18 2007	8"	11mmT6	CF,CS,R,NND,R=F	
H240-2	NGC 7814	Peg	Galaxy SA(s)ab: sp	CB,CL,E,VGBM
Sep 24 2016	12"	8mm Et	B,S,EON,FNUC,R=G	
Oct 30 2008	16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	

Herschel 400 (I) Observations

H240-2	NGC 7814	Peg	Galaxy SA(s)ab: sp	CB,CL,E,VGBM
Oct 30 2008	16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
Oct 09 2018	12"	8mm Et	F,S,OVAL,MEXTY,R=F	
Nov 10 2007	31"	17mmT4	PB,PL,EL,OVAL,UB,NND,R=G	
Jul 23 2006	8"	11mmT6	CF,CS,OVAL,NND,AV,R=F	
Aug 25 2009	16"	11mmT6	PF,PS,EON,FNUC,R=F	
Aug 21 2015	12"	8mm Ds		
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H242-1	NGC 2681	UMa	Galaxy (R')SAB(rs)0/a	VB,VL,VG,VSMBM*10
May 10 2005	8"	11mmT6	MB,FS,R,FNUC,R=F	
H244-1	NGC 3619	UMa	Galaxy (R)SA(s)0+:	CB,CL,R,VGMBM
Mar 17 2007	8"	11mmT6	F,PS,R,NND,R=F	
H245-1	NGC 3642	UMa	Galaxy SA(r)bc:	PB,PL,R,VGBM
Mar 17 2007	8"	11mmT6	F,PL,OVAL,NND,R=F	
H247-2	NGC 7177	Peg	Galaxy SAB(r)b	PB,PS,R,BMN,R,*SP
Sep 24 2016	12"	8mm Et	PF,PS,OVAL,UB,NND,R=G	
Sep 01 2011	31"	17mmT4	PB,PS,OVAL,PEXT,BNUC,R=G	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
H249-1	NGC 2742	UMa	Galaxy SA(s)c:	CB,CL,E90,ER
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,R=F	
H250-1	NGC 2768	UMa	Galaxy E6:	CB,CL,LE,PSBMLBN
Mar 04 2006	8"	11mmT6	MB,ML,OVAL,NND,R=F	
H251-1	NGC 3945	UMa	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
Mar 17 2007	8"	11mmT6	PF,S,OVAL,NND,R=F	
H251-2	NGC 7448	Peg	Galaxy SA(rs)bc	PB,L,E173,VGBM,*F2'
Sep 24 2016	12"	8mm Et	F,S,OVAL,FNUC,R=G	
Sep 12 2004	8"	11mmT6	F,EL,OVAL,NND,AV,F	
Sep 10 2015	12"	8mm Ds	F,PS,OVAL,MEXT,UB,NND,R=F	
Oct 26 2014	18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=G	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H252-1	NGC 4041	UMa	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN
Mar 18 2007	8"	11mmT6	PF,PL,R,NND,R=F	
H252-3	NGC 488	Psc	Galaxy SA(r)b	PB,L,R,SVMBM,*8F10'
Nov 21 2006	8"	11mmT6	B,L,OVAL,FNUC,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H253-1	NGC 4036	UMa	Galaxy S0-	VB,VL,E
Mar 18 2007	8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G	
H256-1	NGC 5322	UMa	Galaxy E3-4	VB,PL,IR,PSMBM
Mar 18 2007	8"	11mmT6	PB,L,OVAL,FNUC,HISB,R=G	
H258-1	NGC 1491	Per	Nebula E	VB,S,IF,BM,R,*INV
Oct 31 2010	12"	11mmT6	PF,S,R=G,UHC FILTER,IRREGULAR IN SHAPE	
H261-1	NGC 1931	Aur	Open Cluster I 3 p n	VB,L,R,B***IN M
Nov 03 2004	8"	7.5mmW	NICE CLUSTER	
H264-1	NGC 4250	Dra	Galaxy SAB(r)0+	PB,S,R,PGBM
Aug 12 2010	12"	7mm TV	CF,PS,OVAL,UB,NND,R=F	
Aug 06 2010	12"	7mm TV	PF,CS,OVAL,UB,NND,R=F	
H266-2	NGC 2613	Pyx	Galaxy SA(s)b	CB,L,VME110
Mar 13 2007	8"	11mmT6	PF,PS,EON,NND,AV,R=F	

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H266-2	NGC 2613	Pyx	Galaxy SA(s)b	CB,L,VME110
Mar 13 2007	8"	11mmT6	PF,PS,EON,NND,AV,R=F	
H270-1	NGC 3610	UMa	Galaxy E5:	VB,PS,LE90,VSVMBMSN
Mar 17 2007	8"	11mmT6	PB,S,R,BNUC,R=G	
Mar 13 2007	8"	11mmT6	PF,PS,R,NND,R=F	
H271-1	NGC 3613	UMa	Galaxy E6	VB,CL,ME305,SMBMN
Mar 17 2007	8"	11mmT6	F,PS,OVAL,FNUC,R=G	
H273-1	NGC 4589	Dra	Galaxy E2	CB,L,LE,PGMBM
Feb 23 2006	31"	17mmT4	VB,FL,OVAL,BNUC,HISB,R=G	
H280-1	NGC 6217	UMi	Galaxy (R)SB(rs)bc	B,CL,LE,SLBM
Sep 02 2016	12"	8mm Et	PF,PS,OVAL,FNUC,R=F. SQM-20.08	
Mar 18 2007	8"	11mmT6	VF,VS,R,NND,AV,R=F	
H282-2	NGC 615	Cet	Galaxy SA(rs)b	PB,PL,ILE,GBM,*8NP10
Nov 21 2006	8"	11mmT6	VF,VS,OVAL,NND,R=F	
H285-1	NGC 2976	UMa	Galaxy SAc pec	B,VL,ME152,ST INV
Mar 04 2006	8"	11mmT6	DIFF,F,FL,EON,NND,R=F	
H286-1	NGC 3077	UMa	Galaxy I0 pec	CB,CL,MBM,R WITH RAY
May 24 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Mar 13 2007	8"	11mmT6	PF,L,OVAL,NND,AV,R=F	
H288-1	NGC 2655	Cam	Galaxy SAB(s)0/a	VB,CL,LE90,GSVMBM
Oct 06 2004	8"	7.5mmW	MB,EL,EON,FNUC,R=G	
H296-2	NGC 4027	Crv	Galaxy SB(s)dm	GCL,PF,PL,R,RR,ST16
Mar 29 2006	8"	11mmT6	PF,PS,R,NND,AV,R=F	
Apr 07 2008	31"	17mmT4	PB,PS,R,UB,FNUC,MSB,R=G	
H316-2	NGC 2371	Gem	Planetary Neb 3a+2	B,S,R,BMN,P OF DNEB
Feb 23 2006	31"	19mmW	FAIRLY LONG, ELONG,MSB,R=G	
Dec 04 2004	8"	7.5mmW	MF,OVAL,R=G	
H342-2	NGC 3912	Leo	Galaxy SAB(s)b? pec	F,PL,R,PGBM
Mar 29 2006	8"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
H359-2	NGC 3277	LMi	Galaxy SA(r)ab	CB,CS,R,PGMBM
Mar 13 2007	8"	11mmT6	VF,VS,R,NND,R=F	
H362-2	NGC 3414	LMi	Galaxy S0 pec	B,PL,R,MBM
May 15 2017	12"	7mm TV	PF,PS,OVAL,MEXT,FNUC,R=G	
Mar 04 2006	8"	11mmT6	MB,FS,OVAL,FNUC,R=G	
H402-2	NGC 6118	Ser	Galaxy SA(s)cd	VF,CL,CE45,R
May 30 2011	12"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F	
Jul 24 2006	8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
H452-2	NGC 210	Cet	Galaxy SAB(s)b	B,PS,R,PSBM,R,*11P2'
Dec 16 2009	12"	7.5mmW	PF,PS,OVAL,UB,NND,R=F	
H466-2	NGC 1087	Cet	Galaxy SAB(rs)c	PB,CL,LE,MBM
Oct 31 2010	12"	5.5mmN	PF,PS,OVAL,UB,NND,R=F,PA=80	
H500-2	NGC 4535	Vir	Galaxy SAB(s)c	PF,VL,R
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 26 2006	8"	11mmT6	F,VL,OVAL,NND,R=F	
H505-2	NGC 2811	Hya	Galaxy SB(rs)a	PB,PS,E,PSMBM
Mar 29 2006	8"	11mmT6	PF,PS,EL,OVAL,NND,AV,R=F	
H513-2	NGC 5054	Vir	Galaxy SA(s)bc	F,PS,IR
Apr 28 2006	31"	19mmW	CB,PL,OVAL,UB,NND,R=F	

Herschel 400 (I) Observations

H513-2	NGC 5054	Vir	Galaxy SA(s)bc	F,PS,IR
Apr 28 2006	31"	19mmW	CB,PL,OVAL,UB,NND,R=F	
H534-2	NGC 5364	Vir	Galaxy SA(rs)bc pec	CF,L,R,GBM
May 22 2004	8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
Apr 28 2006	31"	19mmW	B,CS,R,NND,R=F	
H536-2	NGC 4845	Vir	Galaxy SA(s)ab sp	PF,PL,PME,VGBM,*NF
May 04 2005	8"	11mmT6	MF,MS,EL,EON,FNUC,R=G	
H569-2	NGC 4273	Vir	Galaxy SB(s)c	PB,L,E,GBM
May 14 2017	12"	11mmT6	PF,PS,OVAL,FNUC,R=G	
Apr 04 2005	8"	11mmT6	MB,OVAL,FNUC,MSB,R=G	
H573-2	NGC 4281	Vir	Galaxy S0+: sp	B,VL,R,PGBM
May 14 2017	12"	11mmT6	PF,PS,OVAL,FNUC,R=G	
Apr 14 2016	12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=F	
Apr 04 2005	8"	11mmT6	MB,EL,OVAL,NND,MSB,R=F	
H584-2	NGC 6235	Oph	Globular	PB,CL,IR,RRR,*14..16
Jul 15 2006	8"	19mmW	CF,PS,R-F,LITTLE BRIGHTER, DIM STARS	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
H587-2	NGC 6426	Oph	Globular	VF,CL,E,VLBM
Sep 19 2014	12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14	
Jul 09 2005	8"	11mmT6	VF,VS,R=F	
H611-3	NGC 4725	Com	Galaxy SAB(r)ab pec	VB,VL,E,VG,VSVMBMEBN
May 17 2005	31"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G	
H622-2	NGC 428	Cet	Galaxy SAB(s)m	F,L,R,BM,ER
Nov 10 2007	31"	17mmT4	PB,PL,OVAL,UB,NND,R=G	
H637-3	NGC 6058	Her	Planetary Neb 3+2	PF,VS,R,STELLAR
Nov 13 2007	8"	11mmT6	VF,VS,AV,R=F, NO CENTRAL STAR	
H700-3	NGC 3319	UMa	Galaxy SB(rs)cd	CF,L,IE,MB,S OF M
Apr 09 2010	12"	11mmT6	DIFF,CF,PS,OVAL,MEXT,NND,AV,R=F	
H701-2	NGC 6207	Her	Galaxy SA(s)c	PB,PL,E45,VGMBM
Sep 12 2004	8"	11mmT6	F,S,EL, NND,AV,F	
Mar 18 2007	8"	11mmT6	PF,L,OVAL,NND,R=F	
Jun 03 2005	31"	19mmW	VB,ML,OVAL,FNUC,HISB,R=G	
Jul 16 2007	16"	11mmT6	PF,PS,EL.OVAL,FNUC,R=F	
H706-2	NGC 7538	Cep	Nebula E	VF,L,2PB*INV
Nov 28 2010	12"	11mmT6	PF,PS,R=F,HINT OF NEBULOSITY, OIII FILTER	
H707-2	NGC 185	Cas	Galaxy E3 pec	PB,VL,IR,VGMBM,R
Jul 23 2006	8"	11mmT6	VF,PL,OVAL,NND,AV,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
H716-2	NGC 5371	CVn	Galaxy SBbc	PB,L,R,BMFN
May 12 2005	31"	19mmW	MB,ML,OVAL,BNUC,HISB,R=G	
H730-2	NGC 3726	UMa	Galaxy SAB(r)c	PB,VL,LE0,VSMBM,*11N
Mar 17 2007	8"	11mmT6	PF,PL,OVAL,NND,R=F	
H738-2	NGC 3893	UMa	Galaxy SAB(rs)c:	B,PL,R,MBM
Mar 17 2007	8"	11mmT6	VF,PS,OVAL,NND,AV,R=F	
H739-3	NGC 6015	Dra	Galaxy SA(s)cd	VF,PL,R,VGBM
Sep 07 2005	8"	11mmT6	VF,VS,EL,OVAL,NND,R=F	
H743-3	NGC 6781	Aql	Planetary Neb 3+3	PLN,F,L,R,VSBM DISC
Sep 19 2014	12"	11mmT6	F,PL,OVAL,R=G, LP-2, 3 STARS INSIDE, HOME - 9/14/14	

Herschel 400 (I) Observations

H743-3	NGC 6781	Aql	Planetary Neb 3+3	PLN,F,L,R,VSBM DISC
Sep 19 2014	12"	11mmT6	F,PL,OVAL,R=G, LP-2, 3 STARS INSIDE, HOME - 9/14/14	
Sep 13 2009	12"	32mmUW8TH	OBJECT	
Oct 09 2018	12"	11mmT6	B,L,R=G. NO CENTRAL STAR. LP2	
Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G	
Aug 07 2016	12"	8mm Et	PF,PS,R=G., LP3. LITTLE RING.	
H747-3	NGC 1961	Cam	Galaxy SAB(rs)c	CF,PL,IF,MBM,ER,*INV
Nov 03 2004	8"	11mmT6	VF,EL,OVAL,NND,AV,R=F	
H748-2	NGC 4217	CVn	Galaxy Sb sp	PF,L,ME45,**N,P OF 2
Mar 26 2009	16"	17mmT4	VF,VS,OCAL,NND,R=F	
H759-2	NGC 5907	Dra	Galaxy SA(s)c: sp	CB,VL,VME155,VGPSBMN
Jun 07 2010	12"	7.5mmW	PF,PL,EON,FNUC,FAINT BULGE,R=G	
Jul 23 2006	8"	11mmT6	PF,PS,EON,VFNUC,R=F	
H764-2	NGC 5982	Dra	Galaxy E3	CB,S,R,PSBM,R
Aug 15 2015	12"	8mm Ds	F,PS,OVAL,FNUC,R-F	
Apr 13 2005	8"	11mmT6	VF,VS,OVAL,NND,R=F	
H766-2	NGC 5985	Dra	Galaxy SAB(r)b	PB,CL,IE,R
Sep 07 2005	8"	11mmT6	MB,ML,EL,OVAL,FNUC,MSB,R=G	
Aug 15 2015	12"	8mm Ds	DIFF,PF,S,OVAL,UB,NND,R=F	
Apr 13 2005	8"	11mmT6	MB,ML,EL,OVAL,FNUC,R=G	
H769-2	NGC 2339	Gem	Galaxy SAB(rs)bc	PB,PL,R,GLBM
Dec 15 2004	8"	11mmT6	VF,OVAL,NND,AV,R=F	