

Observations by Herschel 400 (I)

NGC 40	Cep	H58-4	Planetary Neb PN F,VS,R,VSMBM,*12SP	PK 120+9.1
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	
NGC 129	Cas	H79-8	Open Cluster IV2p CL,VL,PR,LC,*9...13	
Aug 13 1982	12.5"	24mm	MB,BL,SCATTERED,BLENDS WITH FIELD *S	
NGC 136	Cas	H35-6	Open Cluster II2p GCL,VF,S,EC	
Aug 13 1982	12.5"	16mm	MF,VS,R,STARS RESOLVED,20*S,FAINT PATCH IN 24MM	
NGC 157	Cet	H3-2	Galaxy SBbc 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	
NGC 185	Cas	H707-2	Galaxy E3 PB,VL,IR,VGMBM,R	
Jul 31 1981	12.5"	24mm	DIF,SETLLAR NUC,DIF HALO,R TO OVAL IN SHAPE	
Sep 18 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
Aug 19 1980	12.5"	24mm		
Jul 17 1980	12.5"	24mm		
Jul 15 1980	12.5"	24mm	DIF,EF,PL,AVERTED VISION	
NGC 205	And	M110 H18-5	Galaxy E5 VB,VL,ME165,VGVMBM	M 110
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Aug 31 1984	12.5"	24mm	MB,PL,FNUC,COMP TO M31,ELONG,F* IN EASTERN PART,SOFT DIF NUCLEUS	
Mar 02 1984	10"	20mm	SAME	
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	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Sep 10 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
Aug 19 1980	12.5"	24mm		
Jul 24 1980	12.5"	24mm	BEST OBSERVED TO DATE	
Jul 17 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
NGC 210	Cet	H452-2	Galaxy SBb B,PS,R,PSBM,R,*11P2'	
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		
NGC 225	Cas	H78-8	Open Cluster III1p CL,L,LC,*9...10	
Aug 13 1982	12.5"	24mm	MB,PL,18-21 *S,SPREADS OUT WELL,*S APPROX SAME MAGNITUDE	

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NGC 246	Psc	H25-5	Planetary Neb PN VF,L,4*IN DIF NEB	PK 118-74.1
Sep 27 1981	12.5"	16mm	DIF,BLUE GREEN,MB,BL,SOURROUNDS 4 *S, 1 * S,PATCHY OVALNESS	
Oct 31 1980	12.5"	24mm		
Oct 29 1980	8"	24mm		
Sep 18 1980	12.5"	24mm	3*S IN NEB,ONE MOST LIKELY CENTRAL *	
NGC 247	Cet	H20-5	Galaxy SBcd 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	
NGC 278	Cas	H159-1	Galaxy SBb CB,PL,R,2*10NR	
Jul 31 1981	12.5"	12mm	GMBM,DIF HALO SEEN,SOMEWHAT OVAL,HISB	
Sep 18 1980	12.5"	20mm	GREAT	
Aug 22 1980	12.5"	24mm		
Aug 19 1980	12.5"	24mm		
Jul 24 1980	12.5"	24mm		
Jul 17 1980	12.5"	24mm		
Jul 15 1980	12.5"	24mm	GREAT!!!	
Jun 18 1980	12.5"	24mm		
NGC 381	Cas	H64-8	Open Cluster III2p CL,PC	
Jul 31 1981	12.5"	24mm	BLENDS IN WITH FIELD OF *S OF APPROX SAME MAG	
Sep 03 1980	12.5"	24mm		
NGC 404	And	H224-2	Galaxy E-S0 PB,CL,R,GBM,	
Aug 31 1984	12.5"	12mm	VF,MS,FNUC,F*NW 1 GAL DIA,OVAL-R,SBM,KEEP BETA OUT OF FIELD	
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		
Aug 19 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm	VERY CLOSE TO B*	
NGC 428	Cet	H622-2	Galaxy SBm 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	
NGC 436	Cas	H45-7	Open Cluster I3m CL,S,IF,PC	
Aug 13 1982	12.5"	24mm	MF,MS,20-30 *S,LOOSE,SCATTERED	
NGC 457	Cas	H42-7	Open Cluster I3r 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		
NGC 488	Psc	H252-3	Galaxy Sb PB,L,R,SVMBM,*8F10'	
Sep 24 1981	12.5"	16mm	MB,ML,BNUC,VMBM,R,HISB,LINE OF 5*S TO S	
Oct 31 1980	12.5"	24mm		
Oct 29 1980	8"	24mm		
Sep 07 1980	12.5"	24mm	B* CLOSE	

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NGC 524	Psc	H151-1	Galaxy S0-a	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		
Oct 31 1980	12.5"	24mm			
Sep 07 1980	12.5"	24mm			
NGC 559	Cas	H48-7	Open Cluster II2m	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		
NGC 584	Cet	H100-1	Galaxy E4	VB,PL,R,MBM,P OF 2	IC 1712
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!!		
NGC 596	Cet	H4-2	Galaxy E	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		
NGC 598	Tri	M33 H17-5	Galaxy Sc	EB,EL,R,VGBMN	6 Triangulum Galaxy
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10"	20mm	SAME		
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			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5"	24mm			
Sep 18 1980	12.5"	24mm			
Sep 10 1980	12.5"	32mm	GREAT!!,SEVERAL ARMS,STR SEEN		
Sep 07 1980	12.5"	24mm			
Sep 03 1980	12.5"	24mm			
Aug 22 1980	12.5"	24mm			
Aug 19 1980	12.5"	32mm			
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		
NGC 615	Cet	H282-2	Galaxy Sb	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			
NGC 637	Cas	H49-7	Open Cluster I3p	CL,PS,B\$VF ST	
Jul 31 1981	12.5"	24mm	SMALL IN SOMEWHAT BARREN * FIELD,FEW F*S SEEN		
NGC 654	Cas	H46-7	Open Cluster II3m	CL,IF,RI,1*6.7,	
Jul 31 1981	12.5"	24mm	SMALL,LITTLE DIFFUSENESS SEEN IN CLUSTER,FEW *S		
NGC 659	Cas	H65-8	Open Cluster III1p	CL,LRI,ST B	
Aug 13 1982	12.5"	24mm	MF,MS,SCATTERED,APPEARS TO BE BROKEN IN CENTER,CLOSE TO 663		
NGC 663	Cas	H31-6	Open Cluster III2m	CL,B,L,ERI,ST PL	
Jul 31 1981	12.5"	16mm	PL,CLUSTER BROKEN IN HALF,DARK PATCH THROUGH CLUSTER		

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NGC 672	Tri	H157-1	Galaxy SBc	F,PL,ME80	
Dec 04 2004	31"	17mmT4	PB,EL,EDGE ON,SHISB,VF* OFF NUC,BRT BAR TRHOUGHOUT,DUST & PATCH AREAS DET,R=E		
Aug 25 1982	12.5"	16mm	SAME		
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			
Aug 22 1980	12.5"	24mm			
Jul 24 1980	12.5"	32mm	EL,GREAT!!		
NGC 720	Cet	H105-1	Galaxy E5	CB,PL,LE,PSMBM	
Sep 27 1981	12.5"	16mm	MB,MS,BNUC,GBM		
Oct 29 1980	8"	24mm			
Sep 10 1980	12.5"	24mm			
Sep 07 1980	12.5"	24mm			
NGC 752	And	H32-7	Open Cluster III	1m CL,VVL,RI,*L\$SC	
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		
Sep 10 1980	12.5"	24mm			
NGC 772	Ari	H112-1	Galaxy Sb	B,CL,R,GBM,R	
Oct 23 1982	12.5"	16mm	SAME		
Sep 24 1981	12.5"	16mm	PB,PL,SMBM,ELONG,* E SIDE,FAINT 15TH MAG COMP W/770 1 GAL DIA,BNUC,FARMS		
Oct 31 1980	12.5"	24mm			
Oct 29 1980	8"	24mm			
Sep 10 1980	12.5"	24mm			
Sep 07 1980	12.5"	24mm	NICE!!,VL,PF,SIMULAR TO M33		
NGC 779	Cet	H101-1	Galaxy SBb	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		
NGC 869	Per	H33-6	Open Cluster I3r	CL,VVL,VRI,*7...14	DOUBLE CLUSTER H&CHI
Oct 03 1981	12.5"	32mm	VB,EL,BRIGHT DIAMOND SHAPE *S IN CENTER,PAIR/884		
Sep 20 1981	12.5"	24mm			
Oct 31 1980	12.5"	24mm			
Sep 18 1980	12.5"	24mm	H & CHI DOUBLE CLUSTER		
Jun 20 1980	12.5"	24mm			
NGC 884	Per	H34-6	Open Cluster I3r	CL,VL,VRI,RUBY*M	DOUBLE CLUSTER H&CHI
Oct 03 1981	12.5"	32mm	VB,EL,PAIR/869,BEST IN 2" EYEPIECE		
Sep 20 1981	12.5"	24mm			
Oct 31 1980	12.5"	24mm			
Sep 18 1980	12.5"	24mm	H & CHI DOUBLE CLUSTER		
Jun 20 1980	12.5"	24mm			

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NGC 891 And	H19-5	Galaxy Sb	B,VL,VME22
Aug 31 1984	12.5"	16mm	MF,ML,EDGE ON,S ARM BETTER THAN N,DUST LANE DET,CENTRAL BULGE DET
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	
Aug 22 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	
NGC 908 Cet	H153-1	Galaxy SBc	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 SUS
Sep 09 1980	12.5"	16mm	SIZE EASILY DET
NGC 936 Cet	H23-4	Galaxy SB0-a	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	
NGC 1022 Cet	H102-1	Galaxy SBa	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
NGC 1023 Per	H156-1	Galaxy E/SB0	VB,VL,VME,VVMBM
Feb 04 2005	31"	17mmT4	VF,EL,ELONG,LARGE BNUC,FARMS,GMBM,SEVERAL *S IN GAL,COMP=1023A,R=E
Aug 17 1982	12.5"	16mm	EDGE ON,MF,ML,LINE OF 3 *S OFF TO E,VMBM,DIF ARMS
Oct 03 1981	12.5"	12mm	MB,ML,ELONG,F* OR PART OF GAL W SIDE,LOOKS LIKE SB GAL,VMBM,BRT NUC DET
Sep 07 1980	12.5"	24mm	
Sep 03 1980	12.5"	24mm	
Aug 22 1980	12.5"	24mm	
Aug 19 1980	12.5"	24mm	
Jul 24 1980	12.5"	24mm	BNUC,GREAT!!!
Jul 11 1980	12.5"	24mm	
Jun 20 1980	12.5"	24mm	GOOD LOOKING GAL
NGC 1027 Cas	H66-8	Open Cluster III2p	CL,L,SC ST,ONE10M
Aug 13 1982	12.5"	24mm	VB,VL,BRT * IN CLUSTER,15*S
NGC 1052 Cet	H63-1	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	
NGC 1055 Cet	H1-1	Galaxy SBb	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

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NGC 1084 Eri	H64-1	Galaxy Sc	VB,PL,E,GPMBM
Oct 24 1981	12.5"	12mm	MB,ML,ELONG,HISB,PATCHY,NND,VMBM
Oct 31 1980	12.5"	24mm	
Sep 09 1980	12.5"	24mm	
NGC 1087 Cet	H466-2	Galaxy SBc	PB,CL,LE,MBM
Sep 27 1981	12.5"	16mm	MB,PL,OVAL,HISB,SBM,PAIR/1090 AND ANOTHER
Oct 29 1980	8"	24mm	
Sep 18 1980	12.5"	24mm	
Sep 09 1980	12.5"	24mm	PAIR/1090
NGC 1245 Per	H25-6	Open Cluster III1r	CL,PL,RI,C,IR,*12.15
Oct 03 1981	12.5"	24mm	MF,ML,50-80*S
Sep 03 1980	12.5"	24mm	GREAT!!,LOOKS LIKE MINATURE BEEHIVE
NGC 1342 Per	H88-8	Open Cluster III3p	CL,VL,AB60*
Oct 03 1981	12.5"	24mm	VB,VL,APPROX 20*S,DISPURSED
Sep 03 1980	12.5"	24mm	NOT SO GOOD,DOES NOT LIVE UP TO ASTRO CARD DESCRIPTION
NGC 1407 Eri	H107-1	Galaxy E	VB,L,R,SVMBMN
Oct 24 1981	12.5"	12mm	MB,ML,B NUC,R,PAIR/1400
Oct 31 1980	12.5"	24mm	PAIR/1400
Sep 09 1980	12.5"	24mm	
NGC 1444 Per	H80-8	Open Cluster IV1p	CL OF AB30*12...14
Oct 03 1981	12.5"	24mm	MF,VS,SURROUNDS B DOUBLE *,APPROX 10*S,SMALL
Sep 03 1980	12.5"	24mm	POOR
NGC 1491 Per	H258-1	Nebula EN	VB,S,IF,BM,R,*INV
Aug 10 2002	12.5"	25mm	LBN 704 PB,PL,MOD HISB,IRR IN SHAPE,BRT NEBULA,LARGE PATCH
NGC 1501 Cam	H53-4	Planetary Neb PN	PLN,PB,PS,VLE,1'DIAM
Oct 03 1981	12.5"	12mm	PK 144+6.1 VERY R,UB,F CENTRAL * 14TH MAG DET,GREEN,DIF,MF,MS
NGC 1502 Cam	H47-7	Open Cluster II3p	CL,PRI,CC,IF
Oct 03 1981	12.5"	24mm	MB,ML,BRT DOUBLE * IN CENTER,APPROX 20*S,NICE IN 24MM
NGC 1513 Per	H60-7	Open Cluster II1m	CL,L,VRI,PC,ST VL
Oct 03 1981	12.5"	24mm	MB,ML,APPROX 40*S,DARK PATCH IN CENTER,U SHAPED
Sep 03 1980	12.5"	24mm	
NGC 1528 Per	H61-7	Open Cluster II2m	CL,B,VRI,CC
Oct 03 1981	12.5"	24mm	VB,VL,ONE HALF CLUSTER BRT THAN OTHER,APPROX 50*S
Sep 03 1980	12.5"	24mm	
Jul 17 1980	12.5"	24mm	
NGC 1535 Eri	H26-4	Planetary Neb PN	PLN,VB,S,R,PS,VSBM,R
Oct 30 1981	12.5"	12mm	PK 206-40.1 BLUE,MB,PL,BRT MIDDLE,12MAG CENTRAL *
Oct 31 1980	12.5"	24mm	SIM IN COLOR TO SATURN NEBULA,FIND 1537 FIRST,GREAT!!!

Observations by Herschel 400 (I)

NGC 1545 Per	H85-8	Open Cluster II2p CL,PRI,LC,ST L
Oct 03 1981 12.5"	24mm	MB,ML,TRI OF B*S IN CENTER,APPROX 20*S,SPREAD OUT THIN
Sep 03 1980 12.5"	24mm	
NGC 1579 Per	H217-1	Nebula RN PB,VL,IR,MBM,*8 2'NF LBN 766
Aug 10 2002 12.5"	16mm	PB,PL,BRT NEBULA,MOD HISB,NO *S,UB
Aug 10 2002 12.5"	9mmT6	PATCH,UB
NGC 1647 Tau	H8-8	Open Cluster II2m CL,VL,ST L,SC
Aug 21 1982 12.5"	24mm	MB,EL,APPROX 20*S,FILLS 24MM,LOOSE,SCATTERED
NGC 1664 Aur	H59-8	Open Cluster III1p CL,LRI,LC,PL
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
NGC 1750 Tau	H43-8	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
NGC 1778 Aur	H61-8	Open Cluster III2p CL,PC,LRI,IF,ST L
Sep 06 2002 12.5"	24mm	PB,ML,APPROX 20*S,LOOSLY SCATTERED,*S SIMULAR MAG
NGC 1788 Ori	H32-5	Nebula RN B,CL,R,BM,***15,*1'F LBN 916
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
NGC 1817 Tau	H4-7	Open Cluster III1m 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
NGC 1857 Aur	H33-7	Open Cluster II2m CL,PRI,PC,ST7...
Dec 03 1980 12.5"	24mm	* APROX 7TH MAG IN CLUSTER
NGC 1907 Aur	H39-7	Open Cluster II1m CL,PRI,PC,R,ST9...12
Mar 27 1981 12.5"	24mm	
NGC 1931 Aur	H261-1	Open Cluster OCL-VB,L,R,B***IN M
Aug 21 1982 12.5"	16mm	MF,PS,3F*S IN CENTER,GBM,OVAL,BRIGHT CENTRAL REGION
NGC 1961 Cam	H747-3	Galaxy SBbc CF,PL,IF,MBM,ER,*INV IC 2133
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
Oct 03 1981 12.5"	16mm	MF,PL,F*E SIDE,NNS,PATCHY,SLIGHTLY OVAL,F* S PART OF GAL
Sep 18 1980 12.5"	24mm	
NGC 1964 Lep	H21-4	Galaxy SBb F,VS,R,VSVMBM,3*INV
Dec 21 1981 12.5"	16mm	ELONG,MBM,F* IN GAL TOWARDS BRT *S
Dec 21 1981 12.5"	32mm	PF,VS,HISB,STELL NUC
Oct 24 1981 12.5"	16mm	DIF,MF,PS,F*W SIDE,GBM,NUC DET,SMALL AND ROUND,APPEARS LIKE E GAL

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NGC 1980 Ori	H31-5	Nebula EN+OC VF,VVL,44ORIONIS INV
Oct 16 1982 12.5"	24mm	MB,ML,B* IN CENTER,2F*S CLOSE TO B*,LARGE OVAL AREA SURR B*,CLOSE TO M42
Sep 09 1980 12.5"	24mm	NEB AROUND A NICE DOUBLE STAR
NGC 1999 Ori	H33-4	Nebula EN+RN *10,11INV IN NEB LBN 979
Oct 16 1982 12.5"	24mm	MB,PS,BNUC,VMBM,R,12MM-EYE APPEARANCE,TAPPERED ENDS,SOME DARK AREA IN NEB
NGC 2022 Ori	H34-4	Planetary Neb PN PLN,PB,VS,VLE PK 196-10.1
Dec 30 1983 12.5"	12mm	MF,PS,NO CENTRAL * DET,R,UB,LINE OF F*S OFF TO BOTH SIDES
Oct 31 1980 12.5"	24mm	LOOKS LIKE PALE GREY *
Sep 10 1980 12.5"	24mm	
Sep 10 1980 12.5"	32mm	EASILY DET,NICE
NGC 2024 Ori	H28-5	Nebula EN IRR,B,VVL,BLACKSPINC
Jan 24 2004 31"	24mmTP	DIF,MF,EL,SEVERAL FOV'S,WITH OIII,PATCHY AREAS,R=F
Aug 21 1982 12.5"	24mm	PF,EL,DARK DUST LANES DET,BREAKS H2 REGIONS APART,APPROX SAME SIZE AS HELIX
Dec 03 1980 12.5"	24mm	
Oct 31 1980 12.5"	24mm	
Sep 18 1980 12.5"	24mm	CRACKS IN NEB DET,GREAT!!
NGC 2126 Aur	H68-8	Open Cluster II1p 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
NGC 2129 Gem	H26-8	Open Cluster III3p CL,PL,40OR50ST8...15
Oct 30 1981 12.5"	16mm	MB,ML,2B*S IN CLUSTER SURR BY 10-15*S
NGC 2158 Gem	H17-6	Open Cluster II3r CL,PS,MC,VRI,IRRTRI
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	
Sep 10 1980 12.5"	24mm	
NGC 2169 Ori	H24-8	Open Cluster I3p 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
NGC 2185 Mon	H20-4	Nebula RN *11\$4S*IN VF,L,NEB LBN 997
Aug 21 1982 12.5"	24mm	MB,PS,B* JUST TO S,R,GBM,BRT CENTRAL REGION
NGC 2186 Ori	H25-7	Open Cluster II2p CL,PL,PRI,PC,ST L\$S
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
NGC 2192 Aur	H57-7	Open Cluster III1p CL,CL,C,IF,ST VS
Oct 05 2002 12.5"	25mm	PB,PL,APPROX 50*S SAME MAG,WELL PLACED IN 25MM
Oct 05 2002 12.5"	9mmT6	RESOLVED INDIVIDUAL STARS
NGC 2194 Ori	H5-6	Open Cluster III1r 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

Observations by Herschel 400 (I)

NGC 2204 CMa	H13-7	Open Cluster III3m CL,L,PRI,LC
Oct 16 1982 12.5"	24mm	VF,ML,LOOSE-SCATTERED,APPROX 50*S,BRT * OUTSIDE CLUSTER
NGC 2215 Mon	H20-7	Open Cluster II2p CL,CL,PRI,PC,ST11.15
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MF,PL,LOOSE AND SCATTERED,APPROX 20*S,WELL DEFINED
NGC 2232 Mon	H25-8	Open Cluster IV3p B* 10MON +CL
Oct 16 1982 12.5"	24mm	VB,VL,BROKEN IN 2 HALVES,12*S LOOSE AND SCATTERED,USE FINDER
NGC 2244 Mon	H2-7	Non-Existent CL,BEAUTIFUL,STSC
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
Sep 10 1980 12.5"	24mm	
NGC 2251 Mon	H3-8	Open Cluster III2p CL,VL,E,RI,LC
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	LOOSE AND SCATTERED,RECTANGLE SHAPE,APPROX 40*S,ALMOST FILLS 24MM FOV
NGC 2264 Mon	H27-5	Open Cluster IV3p 15MON,CL,**,(NEB)
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MF,ML,11 FAINT*S AROUND A BRT * WITH AN OVAL PATCH OF NEB
Sep 10 1980 12.5"	24mm	
NGC 2266 Gem	H21-6	Open Cluster II2m CL,PS,EC,RI,ST11..15
Feb 21 1984 12.5"	16mm	SAME,APPROX 50-100*S,FORMS SOMEWHAT A TRI,MB,ML
Oct 30 1981 12.5"	12mm	PB,ML,30*S,1BRT * E SIDE
NGC 2281 Aur	H71-8	Open Cluster I3p CL,PRI,VLC,ST PL
Oct 16 1982 12.5"	24mm	MB,VL,APPROX 30*S,STANDS OUT WELL,HOUR GLASS SHAPE,LOOSE
NGC 2286 Mon	H31-8	Open Cluster IV3mCL,L,C,AB100*9...15
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MF,EL,VERY POOR,NO CLUSTERING DET
NGC 2301 Mon	H27-6	Open Cluster I3m CL,RI,L,IF,ST L\$\$
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MB,VL,APPROX 50*S,LOOSE SCATTERED,V SHAPE,SOME PARTS CLUSTER BY THEMSELVES
NGC 2304 Gem	H2-6	Open Cluster II1p CL,PL,RI,MC,ST VS
Feb 21 1984 12.5"	16mm	SAME
Oct 30 1981 12.5"	16mm	MF,ML,WEDGE SHAPE,F*S SAME MAG,APPROX 50*S
Oct 31 1980 12.5"	24mm	VERY COMPACT,LOOKS LIKE A GAL,MANY F*S GIVES APPEAR OF NEB
NGC 2311 Mon	H60-8	Open Cluster III2p CL,LC,NOT RI
Oct 16 1982 12.5"	24mm	MF,ML,APPROX 40*S SAME MAG,R

Observations by Herschel 400 (I)

NGC 2324 Mon	H38-7	Open Cluster II2r CL,L,RI,CC,ST12...16
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	VF,ML,APPROX 100*S,BACKGROUND GLOW,SOME BRT *S IN CLUSTER,WELL PLACED
NGC 2335 Mon	H32-8	Open Cluster III3m CL,L,LC
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MF,MS,APPROX 30*S,LOOSE AND SCATTERED,CLOSE TO 2343
NGC 2339 Gem	H769-2	Galaxy SBbc PB,PL,R,GLBM
Feb 21 1984 12.5"	16mm	SAME
Oct 30 1981 12.5"	12mm	DIF,PF,ML,14* IN GAL E SIDE,MOD HISB,NND
Oct 31 1980 12.5"	24mm	AMONG FIELD OF RICH *S,UB
NGC 2343 Mon	H33-8	Open Cluster III3p CL,CL,P,LC
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MB,ML,APPROX 15*S,LOOSE,SCATTERED
NGC 2353 Mon	H34-8	Open Cluster II2p CL,L,LC,ONEVB*
Feb 25 1984 12.5"	24mm	SAME
Oct 16 1982 12.5"	24mm	MB,ML,OVAL,SCATTERED,1 B* IN EDGE OF CLUSTER,WELL PLACED
NGC 2355 Gem	H6-6	Open Cluster II2p CL,PS,PRI,MC,*15..16
Feb 21 1984 12.5"	16mm	SAME
Oct 16 1982 12.5"	24mm	MF,ML,B* N 1 OBJECT DIA,FEW B*S WITH 50 FAINTER *S,SCATTERED
Oct 30 1981 12.5"	24mm	B* SURR BY SEVERAL F*S,DIF HALO OF FAINTER *S IN BACKGROUND
NGC 2360 CMa	H12-7	Open Cluster II2m CL,VL,RI,PC,ST9...12
Oct 16 1982 12.5"	24mm	MB,ML,APPROX 50*S SAME MAG,RESEMBLES WILD DUCK CLUSTER
Oct 31 1980 12.5"	24mm	LOOKS LIKE SMALL BEE HIVE
NGC 2362 CMa	H17-7	Open Cluster I3p CL,PL,RI,30CMA
Oct 16 1982 12.5"	24mm	APPROX 30*S,VB,VL,B* IN CENTER,TRI SHAPE,*S APPROX SAME MAG
Oct 31 1980 12.5"	24mm	6TH MAG CENTRAL * SURROUNDED BY 9TH *S,EXCELLENT
NGC 2371 Gem	H316-2	Planetary Neb PN B,S,R,BMN,P OF DNEB
Feb 21 1984 12.5"	12mm	SAME
Feb 21 1984 12.5"	12mm	SAME,SOUTH PART BRT THAN N,CENTRAL * DET,VF,VS
Oct 23 1982 12.5"	12mm	SEE 2371
Oct 23 1982 12.5"	12mm	MF,MS,2 PARTS EASILY DET,W SIDE BRT,BOTH MOD HISB,NSS
Dec 03 1980 12.5"	24mm	
Dec 03 1980 12.5"	24mm	
Oct 31 1980 12.5"	16mm	DOUBLE NEBULA,2 NEB ON TOP OF EACH OTHER,NICE!!
Oct 31 1980 12.5"	16mm	DOUBLE NEBULA,2 NEB ON TOP OF EACH OTHER,NICE!!

Observations by Herschel 400 (I)

NGC 2392 Gem	H45-4	Planetary Neb PN B,S,R,*9M,*8NF100"	Eskimo Nebula
Dec 04 2004 31"	17mmT4	(CONT) NEBULA LOOKS MATTED,BRIGHT BLUE,BEST EVER SEEN TO DATE,R=E	
Dec 04 2004 31"	17mmT4	VB,VL,WITH OIII,CENTRAL * EASY,RINGS AROUND CENTRAL *,DARK RINGS BETWEEN,OUTTER	
Feb 21 1984 12.5"	12mm	MB,PS,ESKIMO NUBULA,CENTRAL * EASILY DET,PATCHED IN NEB DET,FORMS TRI W2*S	
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 *	
Oct 31 1980 12.5"	24mm	ESKIMO NEBULA,NON STELL,GREAT!!	
NGC 2395 Gem	H11-8	Open Cluster III1p CL,PRI,C	
Feb 21 1984 12.5"	24mm	SAME	
Oct 30 1981 12.5"	24mm	MB,PL,SOME B*S WITH FAINTER *S	
NGC 2403 Cam	H44-5	Galaxy SBc CB,EL,VME,VGMBMN	
Dec 21 1981 12.5"	16mm	SPR STR DET,BEAUTIFUL!!!	
Dec 21 1981 12.5"	24mm	PB,PL,HISB,SMALL BNUC,LARGE OVAL PATCH,SOME STR SUSP,B*S IN GAL	
Sep 18 1980 12.5"	24mm	2*S IN GAL PRESENT	
NGC 2419 Lyn	H218-1	Globular II PB,PL,LE90,VGBM,*4'F	THE INTERGALACTIC WANDERER
Oct 16 1982 12.5"	16mm	MF,PL,R,UB,SBM,2 B*S POINT TO IT,COUPLE OF F*S SCATTERED AROUND OBJECT	
NGC 2420 Gem	H1-6	Open Cluster I2r CL,CL,RI,C,ST11...18	
Feb 21 1984 12.5"	16mm	SAME,APPROX 50-100*S,MB,ML	
Oct 30 1981 12.5"	16mm	MB,ML,WELL DISPERSED IN 16MM	
NGC 2421 Pup	H67-7	Open Cluster I2m 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		
NGC 2422 Pup M47	H38-8	Open Cluster III2m CL,B,VL,PRI,ST L\$\$	M 47
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984 10"	20mm	SAME	
Oct 16 1982 12.5"	24mm	VB,VL,FILLS 24MM,B*S,LOOSE AND SCATTERED,APPROX 50*S DIFF MAG	
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	
Dec 03 1980 12.5"	24mm		
NGC 2423 Pup	H28-7	Open Cluster IV2mCL,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		
NGC 2438 Pup	H39-4	Planetary Neb PN PLN,PB,PS,VLE,R	PK 231+4.2
Mar 19 2004 12.5"	12mmT4	W/OIII. PLANETARY IN M46,RING SHAPE,CENTRAL DARKNESS,DONUT APPEARANCE,R=E	
Mar 27 1982 12.5"	12mm	MF,PS,24MM-NO CENTRAL * DET,R,UB,12MM-CENTRAL * DET,UB,R,SOME DARK PATCHES SUS	
Dec 03 1980 12.5"	24mm	PLANETARY IN M46,GREAT!!	
NGC 2440 Pup	H64-4	Planetary Neb PN PLN,CB,NOT VWELL DEF	PK 234+2.1
Dec 03 1980 12.5"	24mm	SIM TO SATURN NEBULA,BRT BLUE,SLIGHT DIF NEB AROUND OBJECT	
NGC 2479 Pup	H58-7	Open Cluster III1m CL,PL,PRI,PC,ST S	
Oct 16 1982 12.5"	24mm	MF,VL,40-50*S,SCATTERED,APPROX SAME MAG	

Observations by Herschel 400 (I)

NGC 2482 Pup	H10-7	Open Cluster III1m CL,L,CRI,VLC
Dec 03 1980 12.5"	24mm	BLENDS IN WITH FIELD *S,DOESNOT STAND OUT WELL
NGC 2506 Mon	H37-6	Open Cluster I2r CL,PL,VRI,C,*11...20
Oct 16 1982 12.5"	24mm	MF,ML,SCATTERED 'S AROUND CLUSTER,DENSE CLUSTERING TOWARDS CENTER,APPROX 60'
NGC 2509 Pup	H1-8	Open Cluster II1p CL,B,PRI,LC,ST S
Oct 16 1982 12.5"	24mm	MF,ML,APPROX 50*S,LOOSE,FEW B*S IN CLUSTER
NGC 2539 Pup	H11-7	Open Cluster II1m CL,VL,RI,LC,*11...13
Dec 03 1980 12.5"	24mm	DOUBLE * IN CLUSTER (YELLOW & BLUE),BEAUTIFUL!!!
NGC 2548 Hya M48	H22-6	Open Cluster I2m CL,VL,PRI,PMC,*9..13
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004
Mar 02 1984 10"	20mm	SAME
Mar 27 1982 12.5"	24mm	MB,EL,FILLS 24MM,BETTER IN FINDER
Oct 24 1981 12.5"	24mm	VB,EL,BETTER IN FINDER,FILLS UP 24MM
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981
Dec 03 1980 12.5"	24mm	
NGC 2613 Pyx	H266-2	Galaxy Sb CB,L,VME110
Oct 22 1982 12.5"	16mm	VDIF,VF,MS,ELONG,F FIELD *S AROUND OBJECT,NND,UB
NGC 2655 Cam	H288-1	Galaxy SB0-a VB,CL,LE90,GSVMBM
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
Sep 18 1980 12.5"	24mm	
NGC 2681 UMa	H242-1	Galaxy SB0-a VB,VL,VG,VSMBM*10
Mar 15 1985 12.5"	16mm	SAME
Oct 16 1982 12.5"	16mm	MB,MS,R,GMBM,BNUC,2F*S W,1F* E
Dec 03 1980 12.5"	24mm	
NGC 2683 Lyn	H200-1	Galaxy Sb 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
NGC 2742 UMa	H249-1	Galaxy Sc CB,CL,E90,ER
Mar 06 2003 12.5"	9mmT6	VB,VL,OVAL,NND,MOD HISB,PATCHY,SPR STR SUSP,R=E
Mar 15 1985 12.5"	16mm	DIF,PF,PS,PATCHY-OVAL,NND,UB,3F*S TO S 1 GAL DIA
Oct 16 1982 12.5"	16mm	TRI OF 3F*S OFF TO E
Oct 16 1982 12.5"	24mm	DIF,MF,ML,UB,OVAL,SAME 24MM FIELD W/2768
NGC 2768 UMa	H250-1	Galaxy E6 CB,CL,LE,PSBMLBN
Mar 06 2003 12.5"	9mmT6	VB,VL,OVAL,BNUC,HISB,DUST EXPECTED,GMBM,STELL NUC,HISB MIDDLE,MOD HISB ARMS,R=
Mar 15 1985 12.5"	16mm	MB,PL,OVAL,PATCHY,MOD HISB TOWARDS MIDDLE,NO *S
Oct 16 1982 12.5"	12mm	MB,ML,2F*S OFF TO S,2B*S ON BOTH SIDES,ELONG,MBM,TAPPERED,BNUC
Dec 03 1980 12.5"	24mm	

Observations by Herschel 400 (I)

NGC 2775 Cnc	H2-1	Galaxy Sab	CB,CL,R,VGVSMBM,R
Feb 21 1984	12.5"	16mm	SAME
Oct 24 1981	12.5"	12mm	DIF,MF,ML,BRT CENTRAL REGION,UB,GOOD DEFINITION WHERE ARMS WIND AROUND NUC
Dec 03 1980	12.5"	24mm	
NGC 2782 Lyn	H167-1	Galaxy SBa	CB,R,MBMBN
Oct 16 1982	12.5"	24mm	DIF,MF,MS,DNUC,2F**S OFF TO S,SBM,STELL NUC,16MM-SAME
NGC 2787 UMa	H216-1	Galaxy SB0-a	B,PL,LE90,MBM,R,*INV
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
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
NGC 2811 Hya	H505-2	Galaxy SBa	PB,PS,E,PSMBM
Feb 12 1983	12.5"	16mm	DIF,PF,PS,ELONG,F*W,NND,TAPERED ENDS,FIELD OF B**S
Oct 22 1982	12.5"	16mm	MF,PS,SLIGHTLY ELONG,SBM,F* W SEVERAL GAL DIA
NGC 2841 UMa	H205-1	Galaxy Sb	VB,L,VME151,VSMBM*10
Apr 14 2004	31"	17mmT4	VB,EL,ELONG,LARGE BNUC,HISB,LARGE AREA OF ARMS,DUST SUSP,* IN TIP,R=E
Mar 15 1985	12.5"	12mm	SAME,ALL **S PRESENT
Oct 16 1982	12.5"	12mm	FAINTER * OFF NE,SAME
Oct 16 1982	12.5"	16mm	VB,ML,ELONG,BNUC,F* IN N TIP,F*NW,GMBM,DIF HALO,VF*N
Dec 03 1980	12.5"	24mm	
NGC 2859 LMi	H137-1	Galaxy SB0-a	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	
NGC 2903 Leo	H56-1	Galaxy SBbc	CB,VL,E,GMBM,R,SPOF2
Jan 20 2004	31"	17mmT4	(CONT) BRT H2 REGION IS NGC 2905, AWSOME
Jan 20 2004	31"	17mmT4	EB,EL,OVAL,VERY LARGE BNUC,HISB,BAR DET,BRT H2 REGION ONE SIDE,ARMS DET,R=E
Feb 25 1984	12.5"	12mm	MB,PL,ELONG,BNUC,3**S OFF TO ONE SIDE,SBM,MOD BRT EQ PLANE
Jan 30 1981	12.5"	24mm	VB,VL,BNUC,DIF HALO,GREAT!!
Dec 03 1980	12.5"	24mm	
Oct 31 1980	12.5"	24mm	
Jun 10 1980	6"	24mm	
Apr 16 1980	6"	24mm	SPR STR SUSP,DIF
NGC 2950 UMa	H68-4	Galaxy SB0	B,PS,R,VGVMBMN
Apr 14 2004	31"	17mmT4	MF,PS,R,LARGE BNUC,SEVERAL F**S ON EDGE OF HALO,HISB MIDDLE,GMBM,R=G
Mar 15 1985	12.5"	12mm	SAME,PF,VS,BNUC,R,BM,NO **S CLOSE IN
Oct 16 1982	12.5"	12mm	MF,PS,BNUC,* OFF NW SEVERAL GAL DIA,GMBM,OVAL
Dec 03 1980	12.5"	24mm	
Aug 22 1980	12.5"	24mm	
NGC 2964 Leo	H114-1	Galaxy SBbc	B,VL,LE,VGBM,SP OF 3
Feb 25 1984	12.5"	12mm	DIF,MF,MS,PATCHY,OVAL,SBM,NO **S,PAIR/2968
Jan 30 1981	12.5"	24mm	DIF,VF,VS,FAINT NUC AND HALO
Dec 03 1980	12.5"	24mm	

Observations by Herschel 400 (I)

NGC 2974 Sex	H61-1	Galaxy E4	B,CS,IR,BM,*9SP43"
Oct 22 1982 12.5"	12mm	MF,VS,SLIGHTLY ELONG,B* ON W TIP,HISB,GMBM	
NGC 2976 UMa	H285-1	Galaxy Sc/P	B,VL,ME152,ST INV
Apr 14 2004 31"	17mmT4	MB,VL,PATCH,UB,MOD HISB,VERY UNIQUE IN APPEARANCE,3**S AROUND EDGE,RECT,R=E	
Mar 15 1985 12.5"	16mm	IRR,DIF,PF,VL,ELONG,PATCH,F* S EDGE BY NUC,UB	
Mar 27 1981 12.5"	24mm		
Dec 03 1980 12.5"	24mm	F* IN OUTER ARM REGION	
Aug 22 1980 12.5"	24mm		
NGC 2985 UMa	H78-1	Galaxy Sb	VB,CL,R,PSMBM,*INV F
Apr 14 2004 31"	17mmT4	VB,PL,R,LARGE BNUC,MOD HISB,HISB MIDDLE,R=E	
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		
NGC 3034 UMa M82	H79-4	Galaxy Sd	VB,VL,VME(RAY) M 82
Feb 04 2005 31"	17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BROKEN,BEST TO DATE,R=E	
Apr 14 2004 31"	17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BROKEN PARTS,R=E	
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 15 1985 12.5"	12mm	SAME,IRR	
Mar 02 1984 10"	20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES	
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	
Dec 03 1980 12.5"	24mm		
Oct 31 1980 12.5"	24mm		
Oct 29 1980 8"	24mm		
Sep 18 1980 12.5"	24mm		
Sep 10 1980 12.5"	24mm		
Sep 09 1980 12.5"	24mm		
Aug 22 1980 12.5"	24mm		
NGC 3077 UMa	H286-1	Galaxy Sd	CB,CL,MBM,R WITH RAY
Mar 06 2003 12.5"	9mmT6	EB,EL,OVAL,BNUC,HISB,LARGE NUC AREA,MUCH HISB MIDDLE,R=E	
Mar 15 1985 12.5"	16mm	SAME	
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		
Dec 03 1980 12.5"	24mm		
Aug 22 1980 12.5"	24mm		
NGC 3079 UMa	H47-5	Galaxy SBc	VB,L,ME135
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	
Mar 15 1985 12.5"	12mm	PB,PL,F* IN N TIP,SAME **S PRESENT,S PART THICKER THAN N	
Oct 22 1982 12.5"	16mm	MF,ML,EDGE ON,F*N TIP,F*E SIDE,UB,TAPPERED,NND	
Dec 03 1980 12.5"	24mm	LOOKS LIKE MINATURE M82	
NGC 3115 Sex	H163-1	Galaxy E-S0	VB,L,VME46,VGSMBMEN Spindle Galaxy
Mar 27 1982 12.5"	16mm	MB,ML,EDGE ON,BNUC,F HALO,F*S BORDER,F* FARTHER SW,CENTRAL BULGE	

Observations by Herschel 400 (I)

NGC 3147 Dra	H79-1	Galaxy Sbc	VB,L,R,VGVSMBM	
Apr 23 2003	12.5"	9mmT6	VB,VL,OVAL,BNUC,MHISB,ARMS SUSP,BRT AREAS IN HALO,GMBM,R=E	
Oct 22 1982	12.5"	16mm	MB,ML,BNUC,INSIDE 4*S,R,SMBM,SMALL BRT NUC	
NGC 3166 Sex	H3-1	Galaxy SB0-a	B,PS,R,PSMBM,2ND OF3	
Oct 22 1982	12.5"	16mm	MB,PS,BNUC,R,GBM,HISB TOWARDS CENTER,PAIR/3169	
NGC 3169 Sex	H4-1	Galaxy Sa	B,PL,VLE,PGMBM,3RD-3	
Oct 22 1982	12.5"	16mm	MB,PS,DNUC,R,SBM,MOD HISB,B*NW,PAIR/3166	
NGC 3184 UMa	H168-1	Galaxy SBc	PB,VL,R,VGBM	
Mar 15 1985	12.5"	16mm	SAME	
Oct 22 1982	12.5"	16mm	DIF,MF,ML,R,PATCHY,B* IN N PART,UB,KNTY STR SUSP,NND	
NGC 3190 Leo	H44-2	Galaxy Sa	B,PS,E,PSBMN	Hickson 44a
Feb 25 1984	12.5"	12mm	MB,PL,ELONG,MOD HISB,CLOSE PAIR/3193/3185	
Jan 30 1981	12.5"	24mm	DIF,PB,PL,EDGE ON,DIM NUC,PAIR/3185/3193	
Dec 03 1980	12.5"	24mm		
NGC 3193 Leo	H45-2	Galaxy E2	B,S,VLE,PSLBM,*9NF	Hickson 44b
Feb 25 1984	12.5"	12mm	MB,ML,R,BM,F* TO W,MOD HISB,CLOSE PAIR/3190/3185	
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,DIM HALO,PAIR/3185/3190	
Dec 03 1980	12.5"	24mm		
Jun 10 1980	6"	24mm	JUST BARELY VISIBLE,DID NOT FIND OTHERS IN AREA	
NGC 3198 UMa	H199-1	Galaxy SBc	PB,VL,ME45,VGBM	
Mar 15 1985	12.5"	16mm	SAME	
Oct 22 1982	12.5"	16mm	DIF,MF,PL,EDGE ON,F*NW EDGE,UB,NND,TAPPERED TOWARDS ENDS	
Dec 03 1980	12.5"	24mm		
NGC 3226 Leo	H28-2	Galaxy E2	PB,CL,R,DW/3227	
Feb 25 1984	12.5"	12mm	MB,PS,BNUC,BM,R,CLOSE PAIR/3227	
Jan 30 1981	12.5"	24mm	DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3227	
Dec 03 1980	12.5"	24mm	COMP CLOSE,PAIR/3227	
NGC 3227 Leo	H29-2	Galaxy SBa	PB,CL,R,DW/3226	
Feb 25 1984	12.5"	12mm	MB,MS,ELONG,BNUC,SBM,CLOSE PAIR/3226,NO *S	
Jan 30 1981	12.5"	24mm	DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3226	
Dec 03 1980	12.5"	24mm	COMP CLOSE,PAIR/3226	
NGC 3242 Hya	H27-4	Planetary Neb PN	PLN,VB,LE147,45"D	Ghost of Jupiter
Feb 12 1983	12.5"	16mm	MB,PS,R,BLUE FUZZY EDGES,UB,NO CENTRAL *	
Dec 03 1980	12.5"	24mm	GHOST OF JUPITER,PAIL GREENISH COLOR,GREAT!!	
NGC 3245 LMi	H86-1	Galaxy S0	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		

Observations by Herschel 400 (I)

NGC 3277 LMi	H359-2	Galaxy Sab	CB,CS,R,PGMBM	
Feb 25 1982	12.5"	16mm	DIF,MF,MS,FNUC,SBM,R	
Dec 03 1980	12.5"	24mm		
NGC 3294 LMi	H164-1	Galaxy Sc	CB,L,ME135,GLBM	
Feb 15 2004	31"	17mmT4	VB,EL,OVAL,PATCH,UB,NND,PATCHY AREAS DET,KNOTS AND DUST DET,R=E	
Jan 24 2004	31"	17mmT4	VB,VL,ELONG,EDGE ON,PATCH,UB,NND,R=G	
Oct 22 1982	12.5"	16mm	DIF,MF,ML,ELONG,UB,SLIGHTLY ELONG,NND	
Dec 03 1980	12.5"	24mm		
NGC 3310 UMa	H60-4	Galaxy SBbc/	CB,PL,R,VG,VSMBMN	
Mar 15 1985	12.5"	12mm	SAME	
Oct 22 1982	12.5"	12mm	SAME	
Oct 22 1982	12.5"	16mm	MB,MS,HISB,R,SBM,FORMS TRI WITH 2F*S,B* IN FIELD	
Dec 03 1980	12.5"	24mm		
NGC 3319 UMa	H700-3	Galaxy SBc	CF,L,IE,MB,S OF M	
Mar 15 1985	12.5"	24mm	EDIF,EF,MS,OVAL,UB,*S OFF TO ONE SIDE	
NGC 3344 LMi	H81-1	Galaxy SBbc	CB,L,GBM,*INV,2ST F	
Dec 03 1980	12.5"	24mm	BNUC,2F*S ON EDGE	
NGC 3359 UMa	H52-5	Galaxy SBc	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	
NGC 3377 Leo	H99-2	Galaxy E5	VB,CL,LE,SVMBMBN	
Feb 25 1984	12.5"	12mm	MB,PS,PATCHY,UB IN MIDDLE,R	
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,PAIR/3367	
NGC 3379 Leo	M105 H17-1	Galaxy E1	VB,CL,R,PSBM,R	M 105
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Feb 25 1984	12.5"	16mm	MB,ML,BNUC,R,PAIR/3384/3389	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jan 30 1981	12.5"	24mm	EB,VL,BNUC,PAIR/3384/3389	
Dec 03 1980	12.5"	24mm		
NGC 3384 Leo	H18-1	Galaxy SB(s)	VB,L,R,PSMBM,2ND OF3	
Feb 25 1984	12.5"	16mm	MB,ML,ELONG,BNUC,BM,PAIR/3379/3389	
Mar 27 1981	12.5"	24mm		
Jan 30 1981	12.5"	24mm	VB,PL,BNUC,FAINT HALO,PAIR/3379/3389	
Dec 03 1980	12.5"	24mm		
NGC 3395 LMi	H116-1	Galaxy SBc	CB,PS,ILE,1ST OF 2	
Feb 15 2004	31"	17mmT4	VB,VL,OVAL,LARGE BNUC,HISB,GMBM,INTERACTING 3396,R=E	
Jan 08 2003	12.5"	9mmT6	MB,PL,BNUC,OVAL,SMALL BRT NUC,HISB,COMP=3396	
Oct 22 1982	12.5"	24mm	DIF,VF,MS,ELONG,2 PARTS OR INTERACTING GAL,N PART STELL NUC OR *	
Dec 03 1980	12.5"	24mm	PAIR/3396	

Observations by Herschel 400 (I)

NGC 3412 Leo	H27-1	Galaxy SB0	B,S,LE135,SMBMN	
Feb 25 1984	12.5"	12mm	MB,PS,ELONG,BNUC	
Jan 30 1981	12.5"	24mm	PB,PS,BNUC	
NGC 3414 LMi	H362-2	Galaxy SB0	B,PL,R,MBM	
Feb 15 2004	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,HISB,PAIRS=3418/MAC,R=E	
Oct 22 1982	12.5"	16mm	MF,MS,BNUC,R,SMBM,SMALL STELL BNUC	
Dec 03 1980	12.5"	24mm		
NGC 3432 LMi	H172-1	Galaxy SBm	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		
NGC 3486 LMi	H87-1	Galaxy SBc	CB,CL,R,GMBM	
Oct 22 1982	12.5"	24mm	MF,MS,VDIF,PATCH,SBM	
Dec 03 1980	12.5"	24mm		
NGC 3489 Leo	H101-2	Galaxy SB0-a	VB,PL,LE80,SMBMN	
Feb 25 1984	12.5"	12mm	MB,PS,BNUC,F* OFF ON EDGE,BM	
Jan 30 1981	12.5"	24mm	VB,PL,BNUC,PAIR/3485	
NGC 3504 LMi	H88-1	Galaxy SBab	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		
NGC 3521 Leo	H13-1	Galaxy SBbc	CB,CL,ME140,VSMBMN	
Feb 25 1984	12.5"	12mm	MB,PL,ELONG,BNUC,VERY MBM,SMALL BRT NUC	
Jan 30 1981	12.5"	24mm	VB,PL,ELONG,BNUC,DIM HALO	
NGC 3556 UMa	M108 H46-5	Galaxy SBc	CB,VL,VME79,PBM,R	M 108
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Dec 26 2003	31"	17mmT4	VB,EL,EDGE ON,NND,MOD HISB,3*S IN GAL,H2 REGIONS DET,DUST DET,PATCHY ARMS DET,E	
Mar 15 1985	12.5"	12mm	MB,PL,VERY EDGE ON,F*N EDGE,B*CENTER,MOD HISB,KNTY STR SUSP,EXCELLENT!!!	
Mar 02 1984	10"	20mm	SAME	
Oct 22 1982	12.5"	16mm	DIF,MB,VL,F*N EDGE,EDGE ON,UB,LARGE,NND	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Oct 31 1980	12.5"	24mm		
Sep 18 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm		
May 07 1980	5"	9mm		
Apr 16 1980	6"	24mm	IN SAME FOV WITH M97	
NGC 3593 Leo	H29-1	Galaxy S0-a	B,CL,E90,PSMBM	
Mar 03 1984	12.5"	12mm	MB,PL,EDGE ON,BNUC,TAPPERED ENDS,NO *'S,BM	
Mar 27 1981	12.5"	24mm		
Jan 30 1981	12.5"	24mm	PB,PL,EDGE ON,BNUC,DIM HALO,PAIR/3596	

Observations by Herschel 400 (I)

NGC 3607 Leo	H50-2	Galaxy E-S0	VB,L,R,VMBM,2ND OF 3	
Mar 03 1984	12.5"	12mm	VB,ML,BNUC,R,BM,PAIRS/3608/3605	
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,PAIR/3605/3608	
Jun 10 1980	6"	24mm	VERY DIFFICULT TO FIND. NO GUIDE *S	
NGC 3608 Leo	H51-2	Galaxy E2	B,PL,R,PSBM,3RD OF 3	
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	
NGC 3610 UMa	H270-1	Galaxy E5	VB,PS,LE90,VSVMBMSN	
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,R,BM,SLIGHT TAPPERING DET	
Oct 22 1982	12.5"	16mm	PB,MS,BNUC,R,GMBM	
NGC 3613 UMa	H271-1	Galaxy E6	VB,CL,ME305,SMBMN	
Mar 15 1985	12.5"	12mm	PB,PS,BNUC,OVAL,SMBM,PAIR/3619	
Oct 22 1982	12.5"	16mm	MB,PS,BNUC,R,SMALL BNUC,GBM,PAIR/3619	
NGC 3619 UMa	H244-1	Galaxy S0-a	CB,CL,R,VGMBM	
Mar 15 1985	12.5"	12mm	PF,MS,PATCHY,SMALL NUC,FAINTER THAN 3613,PAIR/3613	
Oct 22 1982	12.5"	16mm	R,DIF,MF,PS,FUZZY,SBM	
NGC 3626 Leo	H52-2	Galaxy S0-a	B,S,VLE,SBM	NGC 3632
Mar 03 1984	12.5"	12mm	MB,PS,BNUC,R,BM	
Jan 30 1981	12.5"	24mm	VB,PS,BNUC,PAIR/M65/M66/3628	
NGC 3628 Leo	H8-5	Galaxy Sb	PB,VL,VME102	
Mar 03 1984	12.5"	12mm	DIF,MF,PL,EDGE ON,VF*S S OF EAST ARM,DARK LANES DET,UB,NND	
Mar 27 1981	12.5"	24mm		
Jan 30 1981	12.5"	24mm	DIF,PF,EL,EDGE ON,FAINT HALO,PAIR/M66/M65/3626	
Dec 03 1980	12.5"	24mm		
Jun 10 1980	6"	24mm	BETWEEN 2 F*S,SAME FOV AS M65/M66	
NGC 3631 UMa	H226-1	Galaxy Sc	PB,L,R,SVMBMRN	
Mar 15 1985	12.5"	16mm	MB,ML,FNUC,FACE ON,SBM,SMALL NUC,SPR STR DET,2 *S OUTER ARMS	
Oct 22 1982	12.5"	16mm	DIF,VF,MS,PATCHY,OVAL,STELL NUC	
NGC 3640 Leo	H33-2	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	
NGC 3642 UMa	H245-1	Galaxy Sbc	PB,PL,R,VGBM	
Mar 15 1985	12.5"	16mm	DIF,PF,PS,OVAL-PATCHY,SBM	
NGC 3655 Leo	H5-1	Galaxy Sc	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	

Observations by Herschel 400 (I)

NGC 3665 Leo	H219-1	Galaxy S0	CB,CL,IR,PGMBM
Mar 15 1985	12.5"	16mm	MF,MS,FNUC,SMALL BRT NUC,F* TO N,MOD HISB,LARGE NUC REGION
Oct 22 1982	12.5"	16mm	MB,ML,DNUC,OVAL,MOD HISB TOWARDS CENTER,LARGE NUC AREA
NGC 3675 UMa	H194-1	Galaxy Sb	VB,CL,VME0,VSMBMN
Mar 15 1985	12.5"	16mm	SAME,PB,ML,BNUC,F*N TIP,CIGAR SHAPE,MOD HISB,BM
Oct 22 1982	12.5"	16mm	MB,ML,ELONG,BNUC,F* IN N TIP,BIG BRT NUC,GMBM
NGC 3686 Leo	H160-2	Galaxy SBbc	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
NGC 3718 UMa	H221-1	Galaxy SBa/P	PB,VL,R,VGLBM
Mar 15 1985	12.5"	16mm	PF,VL,SPR ARMS DET,BRT BAR,VERY R,FACE ON,2B*S TO S,PAIR/3729
Oct 22 1982	12.5"	24mm	MB,ML,2F*S IN S PART,OVAL,NND,PAIR/3729
NGC 3726 UMa	H730-2	Galaxy SBc	PB,VL,LE0,VSMBM,*11N
Mar 15 1985	12.5"	16mm	DIF,MF,VL,F* ON N EDGE,UB,SOME KNTY STR SUSP
Oct 22 1982	12.5"	24mm	MB,PL,UB,OBLONG,F* IN N TIP,NND
NGC 3729 UMa	H222-1	Galaxy SBa/P	PB,PL,LE0,GBM,*12NR
Mar 15 1985	12.5"	16mm	MB,ML,BRT THAN 3718,MOD HISB,B* ON S EDGE,UB,PAIR/3718
Oct 22 1982	12.5"	24mm	VF,ML,OVAL,NND,MOD HISB,F* IN S PART,PAIR/3718
NGC 3810 Leo	H21-1	Galaxy Sc	B,L,VLE
Mar 03 1984	12.5"	12mm	DIF,MB,ML,OVAL,SBM,NO *S
Jan 30 1981	12.5"	24mm	DIF,PB,PL,FNUC,FAINT HALO
Jun 10 1980	6"	24mm	PB,STAR HOP FROM BETA
NGC 3813 UMa	H94-1	Galaxy Sb	CB,PL,PME90,BM
Mar 15 1985	12.5"	16mm	PF,PS,ELONG,EDGE ON,E-W,F*S AT BOTH TIPS,UB,NND,TAPPED ENDS
Feb 12 1983	12.5"	16mm	MF,PS,ELONG,F*E TIP,UB,NND,VF*W TIP SUSP
NGC 3877 UMa	H201-1	Galaxy Sc	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
NGC 3893 UMa	H738-2	Galaxy SBc	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
NGC 3898 UMa	H228-1	Galaxy Sab	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
NGC 3900 Leo	H82-1	Galaxy S0-a	B,PL,VLE0,BMN
Mar 03 1984	12.5"	12mm	MB,PL,ELONG,BNUC,SBM,BETWEEN 2B*S
Feb 12 1983	12.5"	16mm	MF,ML,DNUC,OVAL,BM,TRI OF *S AROUND GAL
Jan 30 1981	12.5"	24mm	PF,PL,ELONG,FNUC,FAINT HALO

Observations by Herschel 400 (I)

NGC 3912 Leo	H342-2	Galaxy SAB	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	
NGC 3938 UMa	H203-1	Galaxy Sc	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	
NGC 3941 UMa	H173-1	Galaxy SB0	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	
NGC 3945 UMa	H251-1	Galaxy SB0	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	
NGC 3949 UMa	H202-1	Galaxy Sbc	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	
NGC 3953 UMa	H45-5	Galaxy SBbc	CB,L,E0,VSMBLRN
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	
NGC 3962 CrI	H67-1	Galaxy E1	CB,PL,IR,GMBM,TRI2*
Feb 12 1983 12.5"	16mm	MB,VS,BNUC,R,HISB,BM	
NGC 3982 UMa	H62-4	Galaxy SBb	B,PL,R,G,SBM,DISC
Feb 12 1983 12.5"	16mm	MB,MS,DNUC,R,SBM,SAME 24MM FIELD WITH 3998	
NGC 3992 UMa M109	H61-4	Galaxy SBbc	CB,VL,PME,SBMBRN M 109
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Dec 26 2003 31"	17mmT4	EB,EL,ELONG,VERY LARGE BNUC,HISB NUC,FARMS DET,PATCHY AREAS DET,M109,R=E	
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981	
Sep 18 1980 12.5"	24mm		
NGC 3998 UMa	H229-1	Galaxy S0	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	
NGC 4026 UMa	H223-1	Galaxy S0	VB,CL,ME176,VSMBMBN
Feb 12 1983 12.5"	16mm	MB,PS,EDGE ON,DUST LANE SUSP,VBM,CENTRAL BULGE	
NGC 4027 Crv	H296-2	Galaxy SBd	GCL,PF,PL,R,RR,ST16
May 03 1981 12.5"	16mm	DIF,PB,PL,DNUC,FAINT HALO	
NGC 4030 Vir	H121-1	Galaxy Sbc	CB,L,VLE,PSMBM,BSTNR
Apr 25 1981 12.5"	24mm	VB,VL,BNUC,BRT HALO	

Observations by Herschel 400 (I)

NGC 4036 UMa	H253-1	Galaxy E-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	
NGC 4038 Crv	H28.1	Galaxy SBm	PB,CL,R,VGBM	ANTENNAE - RING TAIL GALAXY
Mar 22 2004	12.5"	12mmT4	MF,PL,OVAL,PATCH,UB,NND,CLOSE COMP=4039,R=G	
May 03 1981	12.5"	24mm	DIF,PB,VL,ELONG,BOTH NUC OF BOTH GAL SEEN,RING TAIL GAL,ARMS DET,PAIR/4039	
NGC 4041 UMa	H252-1	Galaxy Sbc	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	
NGC 4051 UMa	H56-4	Galaxy SBbc	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	
NGC 4085 UMa	H224-1	Galaxy SBc	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	
NGC 4088 UMa	H206-1	Galaxy SBbc	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	
NGC 4102 UMa	H225-1	Galaxy SBb	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	
NGC 4111 CVn	H195-1	Galaxy S0-a	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	
NGC 4138 CVn	H196-1	Galaxy S0-a	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	
NGC 4143 CVn	H54-4	Galaxy SB0	CB,R,VG,VSBMN	
Feb 12 1983	12.5"	16mm	MB,PS,ELONG,BNUC,SBM,TAPPERED	
Jan 26 1982	12.5"	16mm	PB,ML,BNUC,NUC DET,VMBM	
Jul 05 1980	12.5"	24mm		
NGC 4147 Com	H19-1	Globular VI	GCL,VB,PL,R,GBM,RRR	NGC 4153
Feb 12 1983	12.5"	12mm	MB,PL,RESOLVED TO CORE,OUTER **S CLOSELY GROUPED,BM	
Jun 10 1980	6"	24mm	VF,LOOKS LIKE FAINT GAL	
NGC 4150 Com	H73-1	Galaxy S0	B,S,R,PGMBM	
Feb 27 1982	12.5"	16mm	MF,MS,BNUC,GMBM,R	

Observations by Herschel 400 (I)

NGC 4151 CVn	H165-1	Galaxy SBab	VB,S,R,VSMBMBN,P OF2	
Feb 25 2004	31"	17mmT4	VB,VL,OVAL,SMALL VERY BNUC,2*S IN ARMS,HISB MIDDLE,GMBM,LARGE AREA OF ARMS,R=E	
Jan 26 1982	12.5"	16mm	DIF,MB,PS,BNUC,*NW SIDE,VMBM,R HALO AROUND NUC	
NGC 4179 Vir	H9-1	Galaxy S0	PB,PS,PME135,BMN	
Apr 25 1981	12.5"	24mm	DIF,PF,PS,ELONG,BNUC,F HALO	
NGC 4203 Com	H175-1	Galaxy E/SB0	VB,S,R,PSMBM	
Feb 27 1982	12.5"	16mm	MB,PS,BNUC,R,GBM	
NGC 4214 CVn	H95-1	Galaxy IBm	CB,CL,IE,BIN	NGC 4228
Jan 26 1982	12.5"	16mm	PB,PL,ELONG,2F*S OFF TO NE,1*(14MAG)N 1 GAL DIA,VERY HISB ALONG EQ,OVAL	
Jul 05 1980	12.5"	24mm		
NGC 4216 Vir	H35-1	Galaxy SBb	VB,VL,VME17,SBMN	
Apr 25 1981	12.5"	24mm	VB,EL,ELONG,EDGE ON,BNUC,BARM	
Jun 10 1980	6"	24mm		
NGC 4217 CVn	H748-2	Galaxy Sb	PF,L,ME45,**N,P OF 2	
Jan 26 1982	12.5"	16mm	VDIF,MF,MS,EDGE ON,HISB,3*S IN PLANE OF GAL,SEEMS TO BE A HOOK IN S ARM	
Mar 27 1981	12.5"	24mm		
NGC 4244 CVn	H41-5	Galaxy Sc	PB,VL,EE43,VGBM	
Jan 26 1982	12.5"	24mm	PB,VL,EDGE ON,* ON N TIP,NND,HISB,UB,TAPPED AT BOTH ENDS	
Oct 31 1980	12.5"	24mm		
NGC 4245 Com	H74-1	Galaxy SB0-a	CB,PL,VLE,SMBM,R	
Feb 27 1982	12.5"	16mm	MB,ML,BNUC,R,SMALL NUC	
NGC 4250 Dra	H264-1	Galaxy SB0-a	PB,S,R,PGBM	
Feb 04 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,GMBM,R=G	
NGC 4251 Com	H89-1	Galaxy SB0	VB,S,E,VSVMBMN,*F90S	
Feb 27 1982	12.5"	16mm	ELONG,BNUC,GMBM	
NGC 4258 CVn	M106 H43-5	Galaxy SBbc	VB,VL,VME0,SBMBN	M 106
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Jan 26 1982	12.5"	16mm	VB,VL,BNUC,FAINT HALO,* ON NW EDGE,OVAL,4217 TO W 1 GAL DIA	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Oct 31 1980	12.5"	24mm		
Jul 05 1980	12.5"	24mm		
May 07 1980	5"	9mm		
NGC 4261 Vir	H139-2	Galaxy E2	PB,PS,R,GBM	
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	

Observations by Herschel 400 (I)

NGC 4273 Vir	H569?-	Galaxy SBc	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		
NGC 4274 Com	H75-1	Galaxy SBab	VB,VL,E90,MBMN	
Feb 12 1983 12.5"	24mm	MB,PL,ELONG,BNUC,TAPPERED ENDS,PAIR/4278/4283		
Feb 27 1982 12.5"	16mm	MB,VL,ELONG,BNUC,FAINT HALO,SMALL NUC,DIF HALO AROUND NUC		
NGC 4278 Com	H90-1	Galaxy E1	VB,PL,R,MBM,R,1STOF3	
Feb 12 1983 12.5"	16mm	MB,ML,BNUC,R,VMBM,COMP TO E = 4283		
NGC 4281 Vir	H573-2	Galaxy S0-a	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		
NGC 4293 Com	H5-5	Galaxy SB0-a	F,VL,E,LBM,R	
Feb 12 1983 12.5"	16mm	DIF,PF,ML,F*E TIP,NND,KNTS SUSP,UB,SEVERAL *S OFF ONE SIDE		
Jun 10 1980 6"	24mm			
NGC 4303 Vir	M61 H139-1	Galaxy SBbc	VB,VL,VSBM*,BIN	M 61
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
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		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4314 Com	H76-1	Galaxy SBa	CB,L,E150,SBM,*NP	
Feb 12 1983 12.5"	24mm	PB,ML,EDGE ON,BNUC,F*N TIP,BM,TAPPERED		
NGC 4346 CVn	H210-1	Galaxy SB0	VF,S,ME100,VSMBMBN	
Jan 26 1982 12.5"	16mm	DIF,MF,VS,DIM NUC,OVAL,VMBM		
Mar 27 1981 12.5"	24mm			
NGC 4350 Com	H86-2	Galaxy S0	CB,VS,ME,VSBM	
Feb 12 1983 12.5"	24mm	MB,PS,BNUC,SBM,OVAL,CLOSE PAIR/4340		
Mar 27 1981 12.5"	24mm			
NGC 4361 Crv	H65-1	Planetary Neb PN	VB,L,R,VSMBMN,R	
May 03 1981 12.5"	16mm	BLUE GREEN,PB,PL,CENTRAL * APPROX 11MAG DET		
NGC 4365 Vir	H30-1	Galaxy E3	CB,PL,VLE,GL,SMBM	
Apr 25 1981 12.5"	24mm	PB,PL,BNUC,FARM,PAIR/4342		
Jun 10 1980 6"	24mm	SMALL FUZZY PATCH		
NGC 4371 Vir	H22-1	Galaxy SB0-a	B,PS,R,GBM	
Apr 25 1981 12.5"	24mm	PB,PS,BNUC,F HALO		
NGC 4394 Com	H55-2	Galaxy SBb	PB,LE,BM	
Feb 12 1983 12.5"	16mm	MF,MS,DNUC,R,SBM,PAIR/4382		
Mar 27 1981 12.5"	24mm			

Observations by Herschel 400 (I)

NGC 4414 Com	H77-1	Galaxy Sc	VB,L,E,G,VSMBM*	
Feb 12 1983	12.5"	16mm	VB,ML,BNUC,BM,DIF HALO,SLIGHTLY ELONG,NO *S ON EDGE LIKE PHOTO	
NGC 4419 Com	H113-2	Galaxy SBa	B,PME135,SBM	
Feb 12 1983	12.5"	16mm	MB,PS,EDGE ON,FNUC,SBM,TAPPERED	
Mar 27 1981	12.5"	24mm		
NGC 4429 Vir	H65-2	Galaxy S0-a	B,L,CE,PSBM,*10NF	
Apr 25 1981	12.5"	24mm	DIF,PB,PL,FNUC,DARM	
NGC 4435 Vir	H28-1	Galaxy SB0	VB,CL,R,NP OF 2	The Eyes
May 01 1981	12.5"	24mm	PB,PS,BNUC	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 4438 Vir	H28-1(Galaxy S0-a	B,CL,VLE,R,SF OF 2	
May 01 1981	12.5"	24mm	DIF,PB,PL,BNUC,DARM	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 4442 Vir	H156-2	Galaxy SB0	VB,PL,R,SMBM	
May 01 1981	12.5"	24mm	PB,PS,BNUC,FARM	
NGC 4448 Com	H91-1	Galaxy SBab	B,L,E90,SBM	
Feb 12 1983	12.5"	16mm	MF,MS,FNUC,SLIGHTLY ELONG,MOD HISB,SBM	
NGC 4449 CVn	H213-1	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	
NGC 4450 Com	H56-2	Galaxy Sab	B,L,R,GVMBM*,R,B*SP	
Feb 12 1983	12.5"	16mm	MB,ML,FNUC,R,LARGE NUC,HALO DET	
Jun 10 1980	6"	24mm		
NGC 4459 Com	H161-1	Galaxy S0-a	PB,PL,IR,BM,R,*8SF2'	
Feb 12 1983	12.5"	16mm	MB,PS,BNUC,SMBM,STELL NUC,CLOSE TO B*	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 4473 Com	H114-2	Galaxy E5	PB	
Feb 12 1983	12.5"	16mm	MF,PS,DNUC,R,BM,PAIR/4477	
May 01 1981	12.5"	24mm	PB,PL,BNUC,FARM,PAIR/4461	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 4477 Com	H115-2	Galaxy SB0	PB,CL	
Feb 12 1983	12.5"	16mm	MF,PS,BNUC,R,BM,CLOSE COMP 4479,PAIR/4473	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		

Observations by Herschel 400 (I)

NGC 4478 Vir May 01 1981 12.5"	H124-2 24mm	Galaxy E2 PF,PS,ELONG,FNUC,FARM,PAIR/4476/M87	PB,S,R,PSBM,2ND OF 3	
NGC 4485 CVn Jan 28 1982 12.5" Mar 27 1981 12.5"	H197-1 16mm 24mm	Galaxy IBm/P EDIF,PF,PS,EDGE ON,UB,INTERACTING WITH 4490	B,PS,IR,NP OF 2	
NGC 4490 CVn Jan 28 1982 12.5" Mar 27 1981 12.5" Oct 31 1980 12.5"	H198-1 16mm 24mm 24mm	Galaxy SBcd DIF,PB,PL,ELONG,BNUC,GBM,INTERACTING WITH 4485,SN DISCOVERED 8/10/82	VB,VL,ME130,R,SF OF2	
NGC 4494 Com Feb 12 1983 12.5"	H83-1 16mm	Galaxy E1 VB,VL,BNUC,R,BM	VB,PL,R,VSMBMN	
NGC 4517 Vir May 01 1981 12.5"	H5-4 = 24mm	Non-Existent PF,EL,EDGE ON,FARM	CB,VL,VME89,PB*INCNT	NGC 4437
NGC 4526 Vir May 03 1981 12.5" Jun 10 1980 6"	H31-1 24mm 24mm	Galaxy SB0 VB,PL,ELONG,BNUC,BARM	VB,VL,ME120,PSMBM	NGC 4560
NGC 4527 Vir May 03 1981 12.5"	H37-2 24mm	Galaxy SBbc PB,PL,ELONG,DNUC,FARM,PAIR/4536	PB,L,PME69,MBM	
NGC 4535 Vir May 03 1981 12.5"	H500-2 24mm	Galaxy SBc DIF,PB,EF,DARM,F* APPROX 11 MAG	PF,VL,R	
NGC 4536 Vir May 03 1981 12.5"	H2-5 24mm	Galaxy SBbc DIF,PB,EL,ELONG,DARM,PAIR/4527	B,VL,ME110,SBM,ER	
NGC 4546 Vir Feb 12 1983 12.5"	H160-1 16mm	Galaxy E/SB0 MB,PS,BNUC,F*E SEVERAL GAL DIA,TAPPERED ENDS	VB,CL,PME78,VSMBMN	
NGC 4548 Com M91 Mar 19 2004 12.5" Mar 02 1984 10" Feb 12 1983 12.5" Mar 27 1981 12.5" Jun 10 1980 6"	H120-2 12mmT4 20mm 24mm 24mm 24mm	Galaxy SBb MESSIER MARATHON 2004 SAME MB,PL,BNUC,R,LARGE NUC,DIF HALO MESSIER MARATHON 1981	B,L,LE,LBM	M 91
NGC 4550 Vir Jun 04 1981 12.5"	H36-1 24mm	Galaxy SB0 DIF,PF,PS,ELONG,DARM,NGC 4551 CLOSE BY,PAIR/M89	PB,S,VLE,SP OF 2	
NGC 4559 Com Feb 12 1983 12.5"	H92-1 24mm	Galaxy SBc VB,VL,3F*S IN S EDGE,SLIGHTLY ELONG,HISB,NND	VB,VL,ME150,GBM,3*F	

Observations by Herschel 400 (I)

NGC 4565 Com	H24-5	Galaxy Sb	B,EL,EE135,VSBMN=*10	
Feb 05 2005	31"	17mmT4	EB,EEL,EDGE ON,LARGE BNUC,HISB,FILLS FOV,2 HALVES,GMBM,TAPPED ENDS,R=E	
Feb 05 2005	31"	31mmT5	EB,EL,EDGE ON,BNUC,BETTER THAN 17MM,JUST FITS IN FOV,DUST LANE,BEST TO DATE,R=E	
Feb 27 1982	12.5"	16mm	MB,PL,VERY EDGE ON,BNUC,DIM HALO,F*N OF NUC,DUST LANES,CENTRAL BULGE,!!!	
Mar 27 1981	12.5"	24mm		
NGC 4570 Vir	H32-1	Galaxy S0	CB,PS,ME0,SBMRN	
Jun 04 1981	12.5"	24mm	PB,VS,ELONG,BNUC	
Jun 10 1980	6"	24mm	JUST BARELY VISIBLE	
NGC 4594 Vir	M104 H43-1	Galaxy Sa	VB,VL,EE92,VSMBMN	Sombrero Galaxy
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	
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	
May 07 1980	5"	9mm	EXCELLENT!!,DUST LANE DET,SHAPE DET	
NGC 4596 Vir	H24-1	Galaxy SB0-a	B,PS,R,GMBM,R,3*F	
Jun 04 1981	12.5"	24mm	MB,PL,BNUC,BRT HALO,PAIR/4608	
NGC 4618 CVn	H178-1	Galaxy SBm	B,L,E,MBM,CVDBRANCHN	IC 3667
Feb 17 2004	31"	17mmT4	PB,VL,SHISB,IRR,2 HALVES,APP AS 2 GAL SIDE BY SIDE,ONE HALF BRTER,PAIR=4625,R=E	
Jan 28 1982	12.5"	16mm	MF,PL,OVAL-R,COMP TO N (4625),SBM,B* TO S,APPEARS TO BE 2 GAL OR DARK LANE	
Mar 27 1981	12.5"	24mm		
NGC 4631 CVn	H42-5	Galaxy SBcd	VB,VL,EE70,BMN,*ATTN	
Jan 28 1982	12.5"	12mm	VB,VL,EDGE ON,* N OF NUC,F* W TIP,MOD HISB,PATCHES DET IN EQ PLANE	
NGC 4636 Vir	H38-2	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	
NGC 4643 Vir	H10-1	Galaxy SB0-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	
NGC 4654 Vir	H126-2	Galaxy SBcd	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	
NGC 4656 CVn	H176-1	Galaxy SBm	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	
NGC 4660 Vir	H71-2	Galaxy E	VB,S,VSVMBMN	
Jun 04 1981	12.5"	24mm	PF,PS,DNUC,DIM HALO,PAIR/M59	
NGC 4665 Vir	H142-1	Non-Existent	B,PL,IR,MBM,*10SP	NGC 4624
Mar 27 1982	12.5"	12mm	MB,MS,BNUC,F* TOWARDS S TIP,B* TO W,VMBM,OVAL	

Observations by Herschel 400 (I)

NGC 4666 Vir Mar 27 1982	12.5" 12mm	H15-1	Galaxy SBc DIF,MF,PL,EDGE ON,FNUC,STELL NUC,SBM,TAPPED ENDS	B,VL,ME45,PSBM	
NGC 4689 Com Mar 27 1982	12.5" 12mm	H128-2	Galaxy Sbc EDIF,MF,PL,R,2F*S N,NND,UB,SOME STR SUSP	PB,VL,E,VGLBM,R	
NGC 4697 Vir Mar 27 1982	12.5" 12mm	H39-1	Galaxy E6 MB,ML,ELONG,OVAL,F* TO W,GMBM,TAPPED ENDS	VB,L,LE45,SMBMN	
NGC 4698 Vir Mar 27 1982	12.5" 12mm	H8-1 =	Galaxy Sab MF,MS,DNUC,DIF HALO,SMBM,R,BETWEEN 2F*S	CB,PL,IR,BM,R	
NGC 4699 Vir Mar 27 1982	12.5" 12mm	H129-1	Galaxy SBb MB,MS,BNUC,R,SBM,F*S SEVERAL GAL DIA	VB,R,VMBMRN,R	
NGC 4725 Com Feb 12 1983	12.5" 24mm	H611-3	Galaxy SBab/ VB,EL,BNUC,LARGE BRT NUC,OVAL,SLIGHTLY ELONG	VB,VL,E,VG,VSVMBMEBN	
NGC 4753 Vir Feb 12 1983	12.5" 16mm	H16-1	Galaxy S0 MB,ML,ELONG,DNUC,SMB,STELL NUC	CB,L,VLE,VGLBM	
NGC 4754 Vir Feb 12 1983	12.5" 16mm	H25-1	Galaxy SB0 MF,MS,SBM,R,PAIR/4762	B,PL,R,PSBM,P OF 2	
NGC 4762 Vir Feb 12 1983	12.5" 16mm	H75-2	Galaxy SB0 MB,MS,3B*S OFF TO A SIDE,APPEARS LIKE M104,PAIR/4754	PB,VME31,3B*S,F OF 2	
NGC 4781 Vir Feb 12 1983	12.5" 24mm	H134-1	Galaxy SBcd DIF,MF,ML,3 OR 4 F*S GOING OFF TO THE W,NND,UB,OVAL	CB,VL,ME	
NGC 4800 CVn Jan 28 1982	12.5" 16mm	H211-1	Galaxy Sb DIF,MF,PS,FNUC,* ON W SIDE,OVAL,MOD BM	PB,CS,R,PSBM,*14P	
NGC 4845 Vir Feb 12 1983	12.5" 16mm	H536-2	Galaxy Sab DIF,MF,MS,ELONG,BETWEEN 2F*S,UB,NND	PF,PL,PME,VGBM,*NF	NGC 4910
NGC 4856 Vir Feb 12 1983	12.5" 16mm	H68-1	Galaxy SB0-a MB,PS,BNUC,R,BM,VF* ON N EDGE	B,R,PSMBM,*13NP	
NGC 4866 Vir Feb 12 1983	12.5" 16mm	H162-1	Galaxy S0-a DIF,MF,PS,EDGE ON,FNUC,F* IN W TIP,SMALL STELL NUC,SLIGHTLY TAPPED	B,PL,ME90,SBMN,S*INV	
NGC 4900 Vir Feb 12 1983	12.5" 16mm	H143-1	Galaxy SBc MB,ML,F* IN E EDGE,MOD HISB,UB,OVAL	CB,CE,*10ATT POS135	
NGC 4958 Vir Feb 12 1983	12.5" 16mm	H130-1	Galaxy SB0 MF,PS,BNUC,F* OFF TO W,TAPPED,SBM	VB,PS,E,BMBN	

Observations by Herschel 400 (I)

NGC 4995 Vir Feb 12 1983	12.5" 16mm	H42-1	Galaxy SBb MB,ML,MOD HISB,UB,NND,PATCHY	PB,PL,R,VGPMBM,*8NP	
NGC 5005 CVn Jan 28 1982	12.5" 16mm	H96-1	Galaxy SBbc MB,ML,BNUC,SLENDER SHAPE,DIF HALO	VB,VL,VME66,VSBMN	
NGC 5033 CVn Jan 28 1982	12.5" 16mm	H97-1	Galaxy Sc PF,PS,BNUC,F* IN NW TIP,MUCH BM	VB,PL,E167,SMBMVBN	
NGC 5054 Vir Feb 12 1983	12.5" 24mm	H513-2	Galaxy Sbc EDIF,EF,VL,PATCH-OVAL,UB,NND	F,PS,IR	
NGC 5195 CVn Jan 28 1982 Apr 16 1980	12.5" 6" 24mm	H186-1	Galaxy SB0-a MB,ML,BNUC,OVAL,BM,INTERACTING WITH M51	B,PS,LE,VGBM,INV-M51	
NGC 5248 Boo May 06 1981	12.5" 24mm	H34-1	Galaxy SBbc VB,VL,BNUC,DIM HALO	B,L,E150,PSBMRN	
NGC 5273 CVn Jan 28 1982	12.5" 16mm	H98-1	Galaxy S0 DIF,MF,MS,R,SMALL DIM NUC,DIF HALO,PAIR/5276	CB,PL,R,G,PSMBM	
NGC 5322 UMa Apr 03 2005 Feb 12 1983	31" 12.5" 17mmT4 16mm	H256-1	Galaxy E2 VB,VL,ELONG,OVAL,LARGE BNUC,HISB MIDDLE,* OR COMP OFF NUC,F* ON EDGE,SN?,R=E VB,ML,BNUC,R,BM,2F*'S OFF IN A LINE	VB,PL,IR,PSMBM	
NGC 5363 Vir Feb 12 1983	12.5" 16mm	H6-1	Galaxy S0-a VB,ML,BNUC,R,BM,PAIR/5364	B,PL,R,PSBM,*8NF	
NGC 5364 Vir Feb 12 1983	12.5" 16mm	H534-2	Non-Existent DIF,VF,VL,R-OVAL,UB,B* CLOSE BY,PAIR/5363	CF,L,R,GBM	NGC 5317
NGC 5371 CVn Jan 28 1982	12.5" 16mm	H716-2	Galaxy SBbc DIF,MB,PL,DNUC,2*'S OFF W SIDE,1*NE,SMALL NUC,SOME KNTY STR SUSP,R,FACE ON	PB,L,R,BMFN	NGC 5390
NGC 5466 Boo May 06 1981 Jul 14 1980	12.5" 12.5" 16mm 24mm	H9-6	Globular XII VB,EL	CL,L,VRI,VMC,ST11...	
NGC 5473 UMa Mar 06 2003 Jun 11 1983 Mar 27 1981	12.5" 12.5" 12.5" 9mmT6 20mm 24mm	H231-1	Galaxy E/SB0 PB,ML,R,BNUC,MOD HISB,R=G MB,PS,BNUC,BETWEEN 2 F*'S E&W,R,SBM,CLOSE TO M101 (NORTH)	PB,S,R,GBM	
NGC 5474 UMa Mar 06 2003 Jun 11 1983 Mar 27 1981	12.5" 12.5" 12.5" 9mmT6 20mm 24mm	H214-1	Galaxy Sc PF,PL,R,PATCH,NND,PATCHY,F* IN GAL DET,R=G DIF,MB,PL,FNUC,F*NW 1 GAL DIA,OVAL,SMALL BRT NUC,SOUTH OF M101	PB,L,BM	

Observations by Herschel 400 (I)

NGC 5557 Boo May 06 1981	H99-1 12.5" 24mm	Galaxy E1 MB,ML,BNUC WITH DIM HALO	CB,S,R,VSBM*
NGC 5566 Vir Apr 26 2003 Jun 11 1983	H144-1 12.5" 9mmT6 12.5" 20mm	Galaxy SBab VB,PL,R,BNUC,VERY HISB,ARMS DET,LARGE NUC,VMBM,PAIR/5560/5569,R=E MB,PL,ELONG,BNUC,B*SW 1 GAL DIS.LARGE BRT NUC,HISB TOWARDS MID,PAIR/5576	B,PL,R,PSBM,R,*F1.5'
NGC 5576 Vir Jun 11 1983	H146-1 12.5" 20mm	Galaxy E3 PB,ML,BNUC,CLOSE COMP TO W 1 GAL DIA,F*N 1 GAL DIA,R-OVAL,SMBM,PAIR/5566	B,S,R,VSMBM,F OF 2
NGC 5600 Boo May 06 1981	H177-2 12.5" 24mm	Galaxy Sc DIF,MB,PS,NND,BRT HALO	PB,PS,GBM
NGC 5631 UMa Jun 01 2003 Jun 11 1983	H236-1 12.5" 9mmT6 12.5" 20mm	Galaxy S0 PB,ML,ELONG,BNUC,SHISB,HALO-ARMS,SMALL BRFT NUC,STELLAR LIKE,GMBM,R=G MF,VS,BNUC,SEVERAL F*S TO N,R,GBM,BARREN AREA TO SOUTH	B,S,R,PSBMN
NGC 5634 Vir Jun 11 1983	H70-1 12.5" 20mm	Globular IV VB,PL,BNUC,TRI OF B*S AROUND OBJECT,HISB,BM	GCL,VB,CL,R,GBM,RRR
NGC 5676 Boo May 06 1981 Jul 14 1980	H189-1 12.5" 24mm 12.5" 24mm	Galaxy Sbc VB,VL,BNUC,BRT HALO GET B* OUT OF FOV TO SEE	B,L,E45,PGBM,R
NGC 5689 Boo May 06 1981	H188-1 12.5" 24mm	Galaxy SB0-a PB,VS,BNUC	CB,PL,E87,PSMBM
NGC 5746 Vir Jun 11 1983	H126-1 12.5" 20mm	Galaxy SBb MB,PL,EDGE ON,DUST LANE SUSP,BRT NUC BULGE,TAPPERED ENDS,MINATURE 4565	B,L,VME170,BMBN
NGC 5846 Vir Mar 19 2004 Mar 19 2004 Jun 11 1983	H128-1 12.5" 12mmT4 12.5" 12mmT4 12.5" 20mm	Galaxy E MB,ML,OVAL,LARGE BNUC,SHISB,CLOSE COMP=5846A,R=G MB,ML,ELONG,NND,SHISB,R=G MB,PL,FNUC,F*W 1 GAL DIA,COMP TO E,R,SBM,SEVERAL FIELD *S	VB,PL,R,PSBMN,F*INVS
NGC 5866 Dra Mar 19 2004 Apr 23 2003 Mar 02 1984 Jul 09 1983 Jul 22 1981 Mar 27 1981 Jul 14 1980 Jul 11 1980 Jun 20 1980	M102 H215-1 12.5" 12mmT4 12.5" 9mmT6 10" 20mm 12.5" 12mm 12.5" 16mm 12.5" 24mm 12.5" 24mm 12.5" 24mm 12.5" 24mm	Galaxy S0-a MESSIER MARATHON 2004 EB,,VL,OVAL,BNUC,HISB,AWSOME,BEAUTIFUL,TAPPERED ENDS,LARGE NUC AREA,GMBM,R=E SAME MB,ML,BNUC,2F*S ON BOTH SIDES,LARGE BRT NUC,TAPPERED ENDS VB,ML,ELONG,BNUC,BRT HALO AROUND NUC MESSIER MARATHON 1981	VB,CL,PME146,GBM M 102
NGC 5897 Lib May 02 1981	H19-6 12.5" 16mm	Globular XI PB,EL	GCL,PF,L,VIR,VGBM,

Observations by Herschel 400 (I)

NGC 5907 Dra	H759-2	Galaxy Sc	CB,VL,VME155,VGPSBMN
Apr 23 2003	12.5"	9mmT6	VF,VL,EDGE ON,BNUC,MOD HISB,BEAUTIFUL,DUST LANE,CENTRAL BULGE,R=E
Jul 09 1983	12.5"	16mm	MB,PS,ELONG,VERY EDGE ON,FNUC,PAIR/5905
Jul 22 1981	12.5"	16mm	EXT EDGE ON,UB,EQ DUST LANE SEEN
Mar 27 1981	12.5"	24mm	
Jul 14 1980	12.5"	24mm	
Jul 11 1980	12.5"	24mm	
Jun 20 1980	12.5"	24mm	VERY IMPRESSIVE,VB,ELONG
NGC 5982 Dra	H764-2	Galaxy E3	CB,S,R,PSBM,R
Apr 23 2003	12.5"	9mmT6	VF,ML,BNUC,R,MOD HISB,GMBM,LARGE NUC,PAIR=5981/5985,R=G
Jul 09 1983	12.5"	16mm	MB,ML,BNUC,R,BM,SEVERAL OTHER PAIRS
Jul 22 1981	12.5"	24mm	VMBM,FAINT HALO,COMP CLOSE 5985
Jul 14 1980	12.5"	24mm	
Jul 11 1980	12.5"	24mm	
Jun 20 1980	12.5"	24mm	
NGC 5985 Dra	H766-2	Galaxy SBb	PB,CL,IE,R
Apr 23 2003	12.5"	9mmT6	MB,VL,OVAL,PATCH,UB,NND,PATCHY KNTS SUSP,PAIR=5981/5982,R=G
Jul 09 1983	12.5"	12mm	STELL NUC OR *,OTHERS PRESENT
Jul 09 1983	12.5"	16mm	MF,PL,ELONG,UB,SPR STR SUSP,OTHER COMP
Jul 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	
Jun 20 1980	12.5"	24mm	
NGC 6015 Dra	H739-3	Galaxy Sc	VF,PL,R,VGBM
Jun 01 2003	12.5"	9mmT6	MB,VL,ELONG,OVAL,NND,SHISB,F*S IN TIP,CIGAR SHAPE,CENTRAL BULGE,R=G
Jul 09 1983	12.5"	16mm	MB,PL,OVAL,MOD HISB,3F*S OFF TO N,B*NW CLOSE BY,NND
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	
Jun 20 1980	12.5"	24mm	
NGC 6058 Her	H637-3	Planetary Neb PN	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 *
NGC 6118 Ser	H402-2	Galaxy Sc	VF,CL,CE45,R
May 31 1981	12.5"	16mm	DIF,VB,ML,FAINT HALO

Observations by Herschel 400 (I)

NGC 6171 Oph	M107 H40-6	Globular X	GCL,L,VRI,VMC,R,RRR	M 107
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Jul 21 1984	12.5" 16mm	SAME		
Aug 13 1982	12.5" 16mm	MB,PL,SBM,R,3B*S AROUND OBJECT,SOME F* SCATTERED		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jun 18 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
May 07 1980	5" 9mm			
Apr 16 1980	6" 24mm			
NGC 6207 Her	H701-2	Galaxy Sc	PB,PL,E45,VGMBM	
Feb 25 1982	12.5" 16mm	DIF,MF,PS,ELONG,FNUC,BY M13,4F*S W SIDE,STELL NUC		
Mar 27 1981	12.5" 24mm			
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			
Jun 20 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm	GREAT,FIRST SIGHTING OF THIS OBJECT,SAME 24MM FOV AS M13		
NGC 6217 UMi	H280-1	Galaxy SBbc	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		
NGC 6229 Her	H50-4	Globular IV	GCL,VB,L,R,DISC,R	
Feb 25 1982	12.5" 16mm	MB,MS,BNUC,MOD HISB,ALMOST RESOLVED,R		
Jul 14 1980	12.5" 24mm			
Jul 12 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm			
Apr 18 1980	6" 24mm	LOOKS LIKE 3RD * IN A TRI		
NGC 6235 Oph	H584-2	Globular X	PB,CL,IR,RRR,*14..16	
Jul 21 1984	12.5" 16mm	VDIF,VF,MS,FAINT PATCH,FAINT TRI OF *S AROUND OBJECT		
Jun 04 1981	12.5" 24mm	DIF,MB,ML,10 MAG *S		
Jun 18 1980	12.5" 24mm	VF,FAINT TRI OF *S SURROUND OBJECT		
NGC 6284 Oph	H11-6	Globular IX	GCL,B,L,R,CM,ST16...	
Jul 21 1984	12.5" 16mm	PF,PS,FNUC,NOT RESOLVED,SBM,PATCHY		
Jun 04 1981	12.5" 24mm	MB,PL,BNUC		
Jun 18 1980	12.5" 24mm	BETTER THAN 6287,BNUC		
Jun 18 1980	12.5" 24mm			
NGC 6287 Oph	H195-2	Globular VII	GCL,CB,L,R,GPMCM,RRR	
Jul 21 1984	12.5" 16mm	VDIF,VF,MS,OVAL,UB,NO *S RESOLVED		
Jun 04 1981	12.5" 24mm	DIF,PF,MS		
Jun 18 1980	12.5" 24mm	EF,NND,LOC IN BARREN * FIELD		

Observations by Herschel 400 (I)

NGC 6342 Oph	H149-1	Globular IV	CB,PS,LE,ER	
Jul 21 1984	12.5"	12mm	VF,VS,VF* ON S EDGE,PATCH-UB,NO I'S RESOLVED	
Jun 04 1981	12.5"	24mm	DIF,PF,PS	
Jun 18 1980	12.5"	24mm	VS,LOOKS LIKE NEB	
Jun 10 1980	6"	24mm	VF,HARD TO SEE	
NGC 6356 Oph	H48-1	Globular II	GCL,VB,CL,VGVM,RRR	
Jul 21 1984	12.5"	12mm	MB,ML,BNUC,R,HISB MIDDLE,*S NOT RESOLVED	
Jun 04 1981	12.5"	24mm	MB,ML,BNUC	
Jun 18 1980	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 6369 Oph	H11-4	Planetary Neb PN	RINGNEB,PB,S,R	PK 2+5.1
Jun 04 1981	12.5"	24mm	GREEN,MF,MS,NO CENTRAL * DET	
Jun 18 1980	12.5"	9mm	GOOD,LOC BESIDE F*,DISK DET	
NGC 6401 Oph	H44-1	Globular VIII	PB,PL,R,*12F INV	
Jun 04 1981	12.5"	24mm	DIF	
NGC 6426 Oph	H587-2	Globular IX	VF,CL,E,VLBM	
Jun 04 1981	12.5"	24mm	DIF,MF,PS	
NGC 6517 Oph	H199-2	Globular IV	PB,PL,R,RR	
Jun 04 1981	12.5"	24mm	DIF,PF,PS	
NGC 6543 Dra	H37-4	Planetary Neb PN	PLN,VB,PS,SBMVSN	PK 96+29.1
Jun 23 2003	12.5"	9mmT6	VB,ML,ELONG,OVAL,VERY HISB,BRT NUC,SLIGHTLY ELONG,FAINT HALO AROUND GAL,R=E	
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		
Jun 20 1980	12.5"	24mm		
NGC 6633 Oph	H72-8	Open Cluster III2m	CL,LC,ST L	
Jun 04 1981	12.5"	32mm	EB,EL	
NGC 6664 Sct	H12-8	Open Cluster III2m	CL,L,PRI,VLC	
Aug 13 1982	12.5"	24mm	MB,VL,APPROX 20*S,SCATTERED,B* IN FIELD,SOMEWHAT V SHAPED	
NGC 6712 Sct	H47-1	Globular IX	GCL,PB,VL,IRR,RRR	
Aug 13 1982	12.5"	16mm	MB,VL,OVAL,PATCHY,SBM,OUTTER *S STARTING TO RESOLVE	
NGC 6755 Aql	H19-7	Open Cluster IV2m	CL,VL,VRI,PC,,*12.14	
Aug 31 1984	12.5"	24mm	SAME,MB,PL	
Jul 10 1981	12.5"	24mm	SOMEWHAT GROUPED TOGETHER,APPEARS TO BE A DOUBLE CLUSTER	
Jul 15 1980	12.5"	24mm		
NGC 6756 Aql	H62-7	Open Cluster I2m	CL,S,RI,LC,*11...12	
Aug 31 1984	12.5"	16mm	SAME	
Jul 10 1981	12.5"	16mm	INDIVIDUAL *S JUST BARELY VISIBLE,VERY DIF,RESEMBLES A LARGE GAL OR GLOBULAR X	

Observations by Herschel 400 (I)

NGC 6781 Aql	H743-3	Planetary Neb PN PLN,F,L,R,VSBM DISC	PK 41-2.1
Aug 31 1984	12.5"	12mm	MF,PL,R,PATCHY,RESEMBLES HELIX NEB
Jul 10 1981	12.5"	12mm	VL,DIF,R,DARK PATCHES SEEN IN CENTRAL AREA,GRAYISH COLOR DIF NEB
NGC 6802 Vul	H14-6	Open Cluster III1m 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
NGC 6818 Sgr	H51-4	Planetary Neb PN PLN,B,VS,R	PK 25-17.1
Jul 30 2002	12.5"	16mm	MB,ML,BRT BLUE GREEN,VERY ROUND
Sep 20 1984	12.5"	12mm	PB,PS,F* JUST TO W,UB,R
Sep 20 1981	12.5"	24mm	
Jul 15 1980	12.5"	24mm	
Jun 18 1980	12.5"	24mm	
Jun 17 1980	12.5"	9mm	GREAT,LOOKS LIKE 6210
NGC 6823 Vul	H18-7	Open Cluster I3pn CL,CRI,E,ST11...12	
Jun 27 2003	12.5"	24mm	VB,VL,APPROX 30*,3B*S WITH MANY FAINTER *S,LOOSE,SCATTERED,PAIR=6820,R=F
Sep 19 1984	12.5"	16mm	SAME,MB,PL,APPROX 20*S
Jul 30 1981	12.5"	16mm	R,B*S RESOLVED,4B*S IN CLUSTER,MB,ML,*S 8..9 MAG
NGC 6826 Cyg	H73-4	Planetary Neb PN PLN,B,PL,R,*11M	Blinking Planetary
Jul 24 1981	12.5"	16mm	GREENISH,BLINKING PLANTARY,CENT * EASILY BLINKS WHEN LOOKING AT CENTER
Jul 24 1981	12.5"	7mm	CENTRAL * NO LONGER BLINKS
Jun 20 1980	12.5"	9mm	BRT CENTRAL * EASILY SEEN
Jun 17 1980	12.5"	16mm	GREAT,GREENISH BLUE COLOR,USE BARLOW AND 16MM
NGC 6830 Vul	H9-7	Open Cluster II2p 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
NGC 6834 Cyg	H16-8	Open Cluster II2m 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
NGC 6866 Cyg	H59-7	Open Cluster II2m CL,L,VRI,CC	
Jun 06 1981	12.5"	16mm	MB,MS
NGC 6882 Vul	H22-8	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
NGC 6885 Vul	H20-8	Open Cluster III2p CL,VB,VL,RI,LC,*6.11	NOT IN MEGASTAR
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
NGC 6905 Del	H16-4	Planetary Neb PN PLN,B,PS,R,4S*NR	PK 61-9.1
Jul 08 1983	12.5"	12mm	MF,PS,R,TRI OF *S AROUND OBJECT,OUTER EDGES FAINTER THAN MIDDLE
Jul 30 1981	12.5"	12mm	BLUEISH GREEN COLOR,R,EDGES WELL DEF,CENTRAL * VERY FAINT,UB

Observations by Herschel 400 (I)

NGC 6910 Cyg Aug 13 1982 12.5"	H56-8 24mm	Open Cluster I2p CL,PB,PS,P,PC,*20.12 VERY LOOSE,APPROX 20 *S,PB,PL	
NGC 6934 Del Aug 20 2003 31" Jul 31 2002 12.5" Jul 08 1983 12.5" Jul 30 1981 12.5" Jul 11 1980 12.5" Jun 20 1980 12.5" Jun 18 1980 12.5" Jun 17 1980 12.5"	H103-1 25mm 12mm 12mm 16mm 24mm 24mm 24mm	Globular VIII GCL,B,L,R,RRR,*16... VB,VL,RESOLVED TO CORE,HUNDRED'S OF *S,MANY *S DETECTED IN CORE,R=E SAME MB,MS,BNUC,B* TO W,RESOLVED OUTER *S,GBM DNUC,GMBM,SOFT HALO OF *S RESOLVED,R	
NGC 6939 Cep Jul 09 1983 12.5" Jun 06 1981 12.5" Aug 19 1980 12.5"	H42-6 24mm 16mm 32mm	Open Cluster I1m CL,PL,ERI,PCM,*11.16 MB,PL,APPROX 100*S,SOMEWHAT V SHAPED,CLUSTER HAS DEFINITE EDGE,PAIR/6946 PF,PL LOC THIS FIRST BEFORE 6946	
NGC 6940 Vul Sep 19 1984 12.5" Jul 30 1981 12.5" Jun 20 1980 12.5"	H8-7 16mm 12mm 24mm	Open Cluster III2m CL,VB,VL,VRI,CC,STPL VB,VL,*S SCATTERED AND APPROX SAME MAG,FILLS FOV PB,PL,LARGE IN B* FIELD GREAT,VL,FILLS FOV,PB	
NGC 6946 Cep Jun 22 2003 12.5" Jul 09 1983 12.5" Aug 14 1982 12.5" Jun 06 1981 12.5" Aug 19 1980 12.5"	H76-4 9mmT6 24mm 16mm 16mm 32mm	Galaxy SBc VF,VL,VG,VSBM,RR VB,EL,R,NND,SHISB,AREAS OF PATCHES DET,SEVERAL *S IN GAL,R=E MF,VL,OVAL,3B*S TO ONE SIDE,SEVERAL F*S IN GAL,SPR STR SUSP,PAIR/6939 EDIF,MF,PL,PATCHY,OVAL,NND,STARS IN GAL,SEE CARD FOR DRAWING DIF,VL,MB,SOME SPR STR DET,FACE ON,SEVEAL *S IN GAL,RESEMBLES M33 VF,COULD NOT FIND IN 24MM	
NGC 6992 Cyg Sep 04 2002 12.5"	H14-5 32mm	Nebula EN EF,EL,EE,EIF,BIFID VB,EEL,SNR,HISB,ARC GOES 2 FOV'S	NGC6995 NETWORK NEBULA
NGC 6997 Cyg Sep 04 2002 12.5"	H58-8 32mm	Open Cluster III2p CL,P,LC,ST L VB,EL,APPROX 40*S VARYING IN BRIGHTNESS,WELL PLACED IN 32MM	
NGC 7000 Cyg Aug 13 1982 12.5" Aug 11 1982 12.5"	H37?-5 32mm 32mm	Nebula EN F,EEL,DIF NEBULOSITY FITS WELL IN EYEPIECE,FIRST TIME SEEN THIS WELL, IMPRESSIVE!!! EL,ONLY SERTAIN OUTLINES DET,HUNDREDS OF *S WITH COSTAL LINE EFFECT	North American Nebula
NGC 7006 Del Jul 31 2002 12.5" Jul 08 1983 12.5" Jul 30 1981 12.5"	H52-1 12mm 12mm 24mm	Globular I B,PL,R,GBM SAME DIF,MF,MS,FNUC,R,SBM,SOFT GLOW BNUC,NO *S IN HALO SEEN,R,SMALL VERY DIF	
NGC 7008 Cyg Aug 11 1982 12.5"	H192-1 16mm	Planetary Neb PN CB,L,E45,R,**ATT MF,PL,BG COLOR,NW PART BRT,PATCHY-R,CENTRAL 14* DET,LOC E OF A FEW *S	PK 93+5.2

Observations by Herschel 400 (I)

NGC 7009 Aqr	H1-4	Planetary Neb PN PLN,VB,S,ELLIPTIC	Saturn Nebula
Sep 01 2002 31"	9mmT6	BRT BLUE,RING SEEN,DETAIL IN NEB DETECTED,BEST VIEW TO DATE	
Aug 31 1984 12.5"	12mm	VB,MS,R BRT BLUEISH NEB,SLIGHTLY ELONG,UB	
Jul 10 1981 12.5"	16mm	SATURN NEB,RING EASILY SEEN,BRT BLUE,MB,MS	
Oct 31 1980 12.5"	24mm		
Sep 10 1980 12.5"	24mm		
Jul 17 1980 12.5"	24mm		
Jun 18 1980 12.5"	9mm	DISK SHOWN WELL	
NGC 7023 Cep	H74-4	Nebula EN+OC *7IN EF,EL,NEBY	
Jul 09 1983 12.5"	12mm	DIF,MB,MS,GAS AROUND B*,SOME DETAIL IN GAS DET	
NGC 7044 Cyg	H24-6	Open Cluster II2r 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	
NGC 7062 Cyg	H51-7	Open Cluster III1p 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	
NGC 7086 Cyg	H32-6	Open Cluster II2m 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	
NGC 7128 Cyg	H40-7	Open Cluster II3m 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	
NGC 7142 Cep	H66-7	Open Cluster II2r 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	
NGC 7160 Cep	H67-8	Open Cluster II3p 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	
NGC 7177 Peg	H247-2	Galaxy SBb PB,PS,R,BMN,R,*SP	
Aug 10 2002 12.5"	9mmT6	VDIF,VF,PS,PATCHY,SLIGHTLY ELONG	
Sep 21 1984 12.5"	16mm	MB,PL,BNUC,R,BM,4F*S IN A LOOP STARTING TOWARDS S,MOD HISB	
Aug 25 1982 12.5"	16mm	MB,PL,MOD HISB,F*S 1 GAL DIA,R,VMBM	
Jul 07 1981 12.5"	16mm	DIF,MF,PS,DIM HALO	
Sep 10 1980 12.5"	24mm		
Jul 15 1980 12.5"	24mm		
Jul 11 1980 12.5"	24mm		
NGC 7209 Lac	H53-7	Open Cluster III1p 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	

Observations by Herschel 400 (I)

NGC 7217 Peg	H207-2	Galaxy Sb	B,PL,GBM,ER
Sep 21 1984	12.5"	12mm	PB,PL,BNUC,R,VMBM,LARGE SOFT NUC
Aug 25 1982	12.5"	16mm	MB,PL,R,VMBM
Jul 07 1981	12.5"	24mm	MB,PB,ELONG,DIM NUC,FAINT HALO
Sep 10 1980	12.5"	24mm	
Jul 15 1980	12.5"	24mm	
Jul 12 1980	12.5"	24mm	
Jul 11 1980	12.5"	24mm	
NGC 7243 Lac	H75-8	Open Cluster IV2p	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
NGC 7296 Lac	H41-7	Open Cluster II 2p	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!!
NGC 7331 Peg	H53-1	Galaxy Sbc	B,PL,PME163,SMBM
Sep 17 2003	31"	25mm	EB,EL,EDGE ON,BNUC,HISB,TIGHT BRT NUC,DUST LANE,COMP DET,7331 CLUSTER,R=E
Jun 27 2003	12.5"	9mmT6	EB,EL,BNUC,VERY HISB,DUST DET,LARGE BRT NUC,FAINT HALO & ARMS,OTHERS PRESENT,R=
Sep 01 2002	12.5"	12mm	SAME
Sep 21 1984	12.5"	12mm	MB,ML,EDGE ON,SAME,COMP CLOSE BY
Jul 06 1983	12.5"	16mm	MB,PL,EDGE ON,LARGE BNUC,TAPPERED ENDS,DUST LANE SUSP IN 12MM
Sep 18 1982	12.5"	16mm	MB,ML,EDGE ON,BNUC,DUST LANE SUSP,TAPPERED ENDS,7335 CLOSE BY
Jul 29 1981	12.5"	24mm	SAME,3 COMP GAL SEEN,7335/7336/7340
Jul 07 1981	12.5"	24mm	PB,PL,EDGE ON,BRT NUC,DIM AREA
Sep 18 1980	12.5"	24mm	
Sep 10 1980	12.5"	24mm	
Sep 07 1980	12.5"	24mm	
Jul 17 1980	12.5"	24mm	
Jul 15 1980	12.5"	24mm	
Jul 12 1980	12.5"	24mm	
Jul 11 1980	12.5"	24mm	
Jun 20 1980	12.5"	24mm	
Jun 17 1980	12.5"	24mm	TWILIGHT STARTING,OBJECT WASHED OUT
NGC 7332 Peg	H233-2	Galaxy S0	CB,S,ME156,SMBMN,P-2
Aug 10 2002	12.5"	12mm	SAME
Sep 21 1984	12.5"	12mm	SAME,NO *S
Jul 06 1983	12.5"	16mm	MF,MS,EDGE ON,BNUC,CLOSE PAIR/7339,MINATURE M104,BRT BULGE,TAPPERED ENDS
Sep 18 1982	12.5"	16mm	MB,ML,EDGE ON,BNUC,GMBM,TAPPERED,PAIR/7339
Jul 29 1981	12.5"	16mm	EDGE ON,GMBM
Jul 07 1981	12.5"	16mm	DIF,MB,ML,FAINT HALO,FAINT COMP CLOSE BY
Sep 10 1980	12.5"	24mm	
Sep 07 1980	12.5"	24mm	
Jul 15 1980	12.5"	24mm	
Jul 12 1980	12.5"	24mm	
Jul 11 1980	12.5"	24mm	LOC BETWEEN 2B*S

Observations by Herschel 400 (I)

NGC 7380 Cep	H77-8	Open Cluster III3p 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
NGC 7419 Cep	H43-7	Open Cluster II3r CL,PRI,CC
Sep 04 2002 12.5"	32mm	PB,ML,FEW B*S WITH GLOW IN BACKGROUND
NGC 7448 Peg	H251-2	Galaxy Sbc PB,L,E173,VGBM,*F2'
Sep 21 1984 12.5"	12mm	MF,PL,ELONG,MOD HISB,BETWEEN 2*S,SBM,NO *S
Jul 07 1981 12.5"	24mm	DIF,MF,ML,FAINT ARM
Sep 10 1980 12.5"	24mm	
Jul 15 1980 12.5"	24mm	PF,LOC BETWEEN 2F*S
Jul 12 1980 12.5"	24mm	
NGC 7479 Peg	H55-1	Galaxy Sbc 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
Jul 07 1981 12.5"	24mm	DIF,MF,PL,DIM ARMS,F* (15MAG) ON N SIDE
Jul 15 1980 12.5"	24mm	EF,PL
Jul 11 1980 12.5"	24mm	
NGC 7510 Cep	H44-7	Open Cluster II2m 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
NGC 7538 Cep	H706-2	Nebula EN VF,L,2PB*INV LBN 542
Sep 18 2004 31"	17mmT4	W/OIII,PB,PL,UB,SHISB,2 B*S IN CTR,WHISPS OF NEB,SPIRAL SHAPE,GREENISH,R=E
NGC 7606 Aqr	H104-1	Galaxy Sb PF,CL,PME0
Jul 10 1981 12.5"	16mm	BRT PART N SIDE,HALO VIS,RESEMBLES M104,MB,ML,EDGE ON,FAINT ARMS
Sep 09 1980 12.5"	32mm	BRIGHT,LARGE
NGC 7662 And	H18-4	Planetary Neb PN PLN ORRING,VB,PS,R Blue Snowball
Aug 31 1984 12.5"	12mm	MB,VS,VERY R,UNIFORM BLUEISH COLOR,* CLOSE BY
Sep 23 1981 12.5"	16mm	BRT BLUEISH GREEN,UB,R WITH FUZZY EDGES,NO CENTRAL *,MB,PS,15* SW
Jul 15 1980 12.5"	24mm	
NGC 7686 And	H69-8	Open Cluster IV1p CL,P,LC,*7...11
Aug 31 1984 12.5"	24mm	SAME
Aug 11 1982 12.5"	24mm	MB,PL,B ORANGE * IN CENTER,LOOSE,LITTLE CLUSTERING EFFECT,APPROX 40*S
Sep 10 1980 12.5"	24mm	
NGC 7723 Aqr	H110-1	Galaxy SBb CB,CL,E,GMBM,R
Jul 10 1981 12.5"	16mm	DIF,MBM,FNUC,MB,ML,FAINT ARMS
Sep 09 1980 12.5"	24mm	
NGC 7727 Aqr	H111-1	Galaxy SBa/P PB,PL,IR,MBM
Jul 10 1981 12.5"	16mm	MB,ML,VMBM,DIF HALO AROUND GAL
Sep 09 1980 12.5"	24mm	BNUC,SPIRAL ARM STR DET

Observations by Herschel 400 (I)

NGC 7762 Cep	H55-7	Open Cluster II2p CL,PRI,PC,*11...15
Jul 09 1983 12.5"	24mm	MF,ML,DOESNOT STAND OUT WELL,LOOSE
NGC 7789 Cas	H30-6	Open Cluster II1r CL,VL,VRI,VMC,*11.18
Jul 31 1981 12.5"	24mm	APPROX 50-100*S,A LOT OF F*S ASSOC WITH CLUSTER
Jun 20 1980 12.5"	24mm	
NGC 7790 Cas	H56-7	Open Cluster III2p CL,PRI,PC
Jul 31 1981 12.5"	24mm	FEW *S,SCATTERED IN FIELD *S
NGC 7814 Peg	H240-2	Galaxy Sab CB,CL,E,VGBM
Sep 21 1984 12.5"	16mm	MB,PL,ELONG,LARGE SOFT NUC,HISB,NO *S
Jul 07 1981 12.5"	24mm	DIF,MF,ML,VERY FAINT HALO
Sep 10 1980 12.5"	24mm	