

Circumpolar Observations

IC 10	Cas		Galaxy IBm	
Sep 11 2004	31"	17mmT4	VF,MS,OVAL,PATCH,UB,SVRL *S IN GLXY,R=P	
IC 1027	Boo		Galaxy S	
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,FSNUC,PAIR=MAC,R=F	
IC 1046	UMi		Galaxy Sc	
Feb 05 2005	31"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,R=F	
IC 1049	Dra		Galaxy SBa	
Apr 14 2004	31"	17mmT4	PF,PS,OVAL,FSNUC,R=F	
IC 1056	Boo		Galaxy Sb	
Apr 14 2004	31"	17mmT4	PF,ML,PATCH,UB,NND,R=F	
IC 1065	Dra		Galaxy SB0	
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,FLNUC,SHISB,R=F	
IC 1069	Boo		Galaxy S0	
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,FLNUC,R=F	
IC 1074	Boo		Galaxy S	
Apr 14 2004	31"	17mmT4	DIF,MF,MS,EL,PATCH,UB,NND,R=F	
IC 1083	UMi		Galaxy S	
Apr 14 2004	31"	17mmT4	DIF,MF,MS,PATCH,UB,NND,R=F	
IC 1099	Dra		Galaxy SAB(r)c:	
Apr 23 2003	12.5"	9mmT6	VF,VS,PATCH,UB,NND,F* SUR GLXY,R=P	
IC 1100	Dra		Galaxy S?	VF,PS,1E,BET 2 ST
Mar 04 2006	31"	17mmT4	MB,MS,OVAL,LNUC,GMBM,MHISB CNTR,R=G	
IC 1110	UMi		Galaxy Sa	
Apr 23 2003	12.5"	9mmT6	DIF,MF,MS,OVAL,PATCH,UB,NND,R=F	
IC 1111	Boo		Galaxy Sb	
Apr 23 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,R=P	
IC 1129	UMi		Galaxy Scd:	
Apr 23 2003	12.5"	9mmT6	DIF,VF,VS,OVAL,PATCH,NND,R=P	
IC 1139	UMi		Galaxy	
Apr 23 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,R=P	
IC 1143	UMi		Galaxy E	
Apr 23 2003	12.5"	9mmT6	MF,MS,OVAL,PATCH,FNUC,SHISB,R=F	
IC 1145	UMi		Galaxy Sbc	
Apr 23 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,AV HOLDS,R=P	

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IC 1146	Dra		Galaxy S
Apr 26 2006	31"	17mmT4	MF,PS,OVAL,FLNUC,PAIR=PGC56091,R=F
Jun 01 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,UB,R=P
IC 1147	Dra		Galaxy S
Mar 04 2006	31"	17mmT4	MB,PS,PATCH,FSNUC,R=F
IC 1154	UMi		Galaxy E
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,R=P
IC 1187	UMi		Galaxy L
Jun 01 2003	12.5"	9mmT6	EDIF,EF,ES,AV,SUSP,LOC GOOD,R=P
IC 1201	Dra		Galaxy Sb
Jun 01 2003	12.5"	9mmT6	EDIF,EF,ES,SUSP,LOC GOOD,R=P
IC 1210	Dra		Galaxy Sab
Jun 21 2003	12.5"	9mmT6	MF,MS,EL,FSNUC,SOFT NUC,R=F
IC 1211	Dra		Galaxy E
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL,BNUC,LNUC AREA,R=F
IC 1212	Dra		Galaxy
Jun 21 2003	12.5"	9mmT6	MF,MS,R,FNUC,B* IN FOV,SNUC,PAIR=PGC57677,R=F
IC 1214	Dra		Galaxy S0/a
Jun 21 2003	12.5"	9mmT6	MF,MS,EL,*NUC,F* OFF NUC,F* JUST OUTSIDE OF GLXY,R=F
IC 1215	Dra		Galaxy SB?
Jun 21 2003	12.5"	9mmT6	PF,MS,PATCH,UB,NND,MHISB,PAIRS=IC1216/IC1218,R=F
IC 1216	Dra		Galaxy Scd:
Jun 21 2003	12.5"	9mmT6	DIF,VF,PS,EL,PATCH,UB,NND,PAIRS=IC1215/IC1218,R=P
IC 1218	Dra		Galaxy S?
Jun 21 2003	12.5"	9mmT6	VF,MS,EL,UB,NND,PAIRS=IC1215/IC1216,R=F
IC 1225	Dra		Galaxy SBb?
Jun 22 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,AV COMES AND GOES,R=P
IC 1228	Dra		Galaxy (R')SB(s)ab
Jun 24 2003	12.5"	9mmT6	PF,MS,PATCH,UB,NND,R=P
IC 1229	Dra		Galaxy SB
Mar 04 2006	31"	17mmT4	PF,PS,R,UB,NND,PAIRS=IC1230/PGC58901,R=F
IC 1230	Her		Galaxy S
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,BLNUC,SHISB CNTR,PAIRS=IC1229/PGC58901,R=F
Jun 24 2003	12.5"	9mmT6	DIF,VF,VS,R,PATCH,UB,R=P
IC 1231	Dra		Galaxy Scd:
Jun 24 2003	12.5"	9mmT6	MB,ML,EL,UB,NND,R=F

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IC	1235	Dra		Galaxy S?
	Jun 24 2003	12.5"	9mmT6	MF,PS,OVAL-R,UB,SHISB,R=F
IC	1237	Dra		Galaxy SB(s)c:
	Jun 24 2003	12.5"	9mmT6	MF,PS,PATCH,UB,PAIR=PGC59287,R=F
IC	1241	Dra		Galaxy Sc
	Jun 21 2003	12.5"	9mmT6	MF,MS,OVAL,PATCH,UB,NND,R=F
IC	1248	Dra		Galaxy SB(r)c
	Jun 22 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,NND,R=P
IC	1251	Dra		Galaxy Scd:
	Jun 22 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,AV COMES AND GOES,PAIR=6340/IC1254,R=P
IC	1254	Dra		Galaxy Sb? pec
	Jun 22 2003	12.5"	9mmT6	EDIF,EF,PS,PATCH,AV COMES AND GOES,LOC GOOD,PAIR=6340/IC1251,R=P
IC	1258	Dra		Galaxy Sab?
	Jun 24 2003	12.5"	9mmT6	MB,MS,OVAL,PATCH,UB,NND,PAIRS=IC1259/PGC60325/PGC60332,R=G
IC	1259	Dra		Galaxy S0 pec?
	Jun 24 2003	12.5"	9mmT6	MB,MS,SHISB,V CLOSE COMP=PGC60325,OTHER PAIRS PRESENT,BOF GRP,R=G
IC	1261	Dra		Galaxy E
	Jun 23 2003	12.5"	9mmT6	DIF,VF,VS,PATCH,AV,EL,COMP ATTACHED=PGC60186,R=P
IC	1267	Dra		Galaxy SBb
	Jun 24 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,UB,R=P
IC	1286	Dra		Galaxy Sab
	Jun 24 2003	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,R=F
IC	1502	Cep		Galaxy S0+
	Oct 12 2012	36"	17mmT4	MF,MS,EL,BLNUC,HISB CNTR,R=FG
	Jun 24 2003	12.5"	9mmT6	MF,PS,PATCH,*NUC,SHISB,2F*S ON EDGE OF GLXY,SMWHT BM,*NUC SUSP,R=F
IC	2166	Lyn		Galaxy SAB(s)bc
	Feb 17 2004	31"	17mmT4	MB,VL,OVAL,PATCH,LVFNUC,F* OFF ONE SIDE,SLT BM,R=G
IC	2174	Cam		Galaxy SBa
	Feb 01 2005	31"	17mmT4	MB,PL,EL,PATCH,FLNUC,VF* IN NUC,R=F
	Jan 30 2005	31"	17mmT4	PF,MS,EL,PATCH,UB,NND,PAIR=2314,R=F
IC	2179	Cam		Galaxy E1-2
	Feb 01 2005	31"	17mmT4	VB,PL,R,BLNUC,MHISB,GMBM,HISB CNTR,R=G
IC	2184	Cam		Galaxy I?
	Feb 01 2005	31"	17mmT4	MF,PL,PATCH,UB,NND,R=G
IC	2209	Cam		Galaxy SB(rs)b:
	Feb 01 2005	31"	17mmT4	DIF,PF,VL,OVAL,PATCH,UB,NND,PAIRS=2460/PGC22269,R=F

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IC	2389	Cam		Galaxy SB(s)b?
	Feb 04 2005	31"	17mmT4	PF,MS,EL,BSNUC,MHISB CNTR,CNTR BULGE,PAIR=2636,R=G
IC	2458	UMa		Galaxy I0 pec:
	Apr 14 2004	31"	17mmT4	VF,MS,PATCH,UB,NND,OFF TIP OF NGC2820,PAIRS/2814/2820,R=P
	Jan 08 2003	12.5"	9mmT6	EEDIF,EF,ES,SUSP ONLY,PAIR/2814/2820
IC	2574	UMa		Galaxy SAB(s)m
	Feb 04 2005	31"	17mmT4	PF,PL,OVAL,SHISB,PATCHY AREA,H2 RGN,IRR IN SHAPE,PAIR=MAC,R=F
IC	2600	UMa		Galaxy S
	Feb 05 2005	31"	17mmT4	PF,MS,EL,PATCH,UB,NND,B* IN FOV,PAIRS=IC2601/MAC,R=F
IC	2601	UMa		Galaxy S
	Feb 05 2005	31"	17mmT4	PF,MS,OVAL,FSNUC,SMWHT BM,PAIRS=IC2600/MAC,R=F
IC	2943	UMa		Galaxy Sa?
	Apr 04 2005	31"	17mmT4	PB,ML,OVAL,FLNUC,PAIR=3759,R=F
IC	334	Cam		Galaxy S?
	Jan 30 2003	12.5"	9mmT6	VB,VL,R,SNUC,MHISB,FACE ON,F* IN GLXY,* NUC,R=E
IC	342	Cam		Galaxy SAB(rs)cd
	Jan 30 2003	12.5"	9mmT6	PB,EL,R,BNUC,SHISB,FACE ON,SPR STR SUSP,HALO OF ARMS,NUC R & B,HINT OF H2 RGN SUSI
IC	356	Cam		Galaxy SA(s)ab pec
	Jan 30 2003	12.5"	9mmT6	PB,VL,OVAL,FNUC,SNUC,UB HALO,PAIR=PGC14531,R=G
IC	381	Cam		Galaxy SAB(rs)bc
	Jan 30 2005	31"	17mmT4	VB,VL,WELL PLACED IN 17MM,FIRST DSO OF 2005,100'S* SIM MAG,BG GLOW,R=E
	Jan 30 2003	12.5"	9mmT6	DIF,MF,PL,OVAL,PATCH,UB,NND,F*IN GLXY,R=F
IC	391	Cam		Galaxy SA(s)c
	Jan 30 2003	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,SHISB,R=F
IC	396	Cam		Galaxy S?
	Jan 30 2003	12.5"	9mmT6	PF,MS,R,FNUC,SNUC,FACE ON,R=F
IC	440	Cam		Galaxy SA(r)ab
	Dec 15 2004	12.5"	12mmT4	PF,ML,OVAL,UB,NND,VF* OFF ONE EDGE,R=F
IC	442	Cam		Galaxy S?
	Dec 15 2004	12.5"	12mmT4	PF,MS,R,FLNUC,R=F
IC	445	Cam		Galaxy S0?
	Jan 30 2005	31"	17mmT4	MF,MS,R,VBSNUC,SBM,*NUC,BM,PAIR=PGC19335,R=F
IC	4470	UMi		Galaxy S
	Jun 01 2003	12.5"	9mmT6	VDIF,EF,VS,PATCH,AV HOLDS,PAIR=5712,R=P
IC	449	Cam		Galaxy E:
	Jan 30 2005	31"	17mmT4	MF,MS,EL,BSNUC,BMBM,R=G

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IC 450	Cam	Galaxy SAB0+:	
Jan 30 2005	31"	17mmT4	MF,PS,R,BSNUC,OTHERS,R=F
IC 451	Cam	Galaxy SAB(r)b:	
Jan 30 2005	31"	17mmT4	PF,MS,EL,FSNUC,OTHERS,R=F
IC 455	Cep	Galaxy S0	
Sep 06 2002	12.5"	9mmT6	VDIF,VF,VS,OVAL PATCH,UB,PAIR/2276/2300
IC 458	Lyn	Galaxy S0-:	
Feb 01 2005	31"	17mmT4	PB,MS,R,BNUC,HISB CNTR,GMBM,NGC2340 CL,R=G
Jan 30 2005	31"	17mmT4	PB,MS,R,BNUC,GMBM,NGC2340 CL,R=G
IC 459	Lyn	Galaxy C	
Feb 01 2005	31"	17mmT4	PF,PS,OVAL,UB,NND,NGC2340 CL,R=F
IC 460	Lyn	Galaxy	
Feb 01 2005	31"	17mmT4	PF,MS,OVAL,BSNUC,NGC2340 CL,R=F
IC 461	Lyn	Galaxy S	
Feb 01 2005	31"	17mmT4	PF,MS,EL,FLNUC,NGC2340 CL,R=F
IC 464	Lyn	Galaxy E?	
Feb 01 2005	31"	17mmT4	PB,MS,EL,FLNUC,MHISB,NGC2340 CL,R=G
IC 4649	Dra	Galaxy Sa-b	
Mar 04 2006	31"	17mmT4	MF,PL,PATCH,UB,NND,SHISB,F* BOTH ENDS,PAIRS=6345/6338/OTHERS,R=G
Jun 22 2003	12.5"	9mmT6	EDIF,EF,VS,PATCH,AV,SUSP,F GLOW BET 2F*S,CL 5 OF 5,R=P
IC 465	Lyn	Galaxy S?	
Feb 01 2005	31"	17mmT4	MB,MS,OVAL,FSNUC,SBM,*NUC,NGC2340 CL,R=F
IC 4660	UMi	Galaxy S	
Jun 23 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,NND,AV,R=P
IC 4669	Dra	Galaxy SB(s)b	
Jun 25 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,NND,R=P
Jun 25 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,NND,AV,R=P
IC 467	Cam	Galaxy SAB(s)c:	
Feb 01 2005	31"	17mmT4	VF,VL,OVAL,PATCH,NND,2 F* IN GLXY,PATCHY AREAS OR KNOTS DET,R=G
IC 469	Cep	Galaxy SAB(rs)ab:	
Sep 06 2002	12.5"	9mmT6	DIF,PF,PS,OVAL PATCH,UB,LOC INSIDE OF A BOX OF *S
IC 4708	Dra	Galaxy C	
Jun 24 2003	12.5"	9mmT6	VF,VS,R,UB,V CLOSE TO A F*,R=P
IC 4763	Dra	Galaxy S?	
Jun 22 2003	12.5"	9mmT6	DIF,MF,PL,EL,NND,PAIR=6677/6679,R=F
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,EL,UB,NND,PAIR/6677/6676,R=P

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IC 4867	Cyg		Galaxy S0	
May 16 2004	31"	17mmT4	MF,MS,OVAL,BSNUC,PAIRS=6783/OTHERS,R=G	
Jun 21 2003	12.5"	9mmT6	MB,PS,R,BNUC,MHISB,BLNUC,GBMB,COMP=PGC63211,R=G	
IC 499	Cam		Galaxy Sa	
Sep 06 2002	12.5"	9mmT6	DIF,MF,PL,EL,SBM,OVAL,LNUC AREA	
IC 511	Cam		Galaxy S0/a:	
Feb 01 2005	31"	17mmT4	MF,MS,EL,BSNUC,MHISB,R NUC,GBM,R=G	
IC 512	Cam		Galaxy SAB(s)cd	
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PL,OVAL-R,PATCH,UB,PAIR=PGC25240,R=F	
Sep 06 2002	12.5"	9mmT6	VDIF,VF,PL,OVAL PATCH,UB,NND	
IC 520	Cam		Galaxy SAB(rs)ab?	
Feb 04 2005	31"	17mmT4	PB,ML,R,BSNUC,MHISB,PAIR=PGC24978,R=G	
IC 522	UMa		Galaxy S0	
Feb 04 2005	31"	17mmT4	MB,PS,R,BLNUC,SHISB,R=G	
IC 529	Cam		Galaxy SA(s)c:	
Mar 26 2003	12.5"	9mmT6	DIF,PF,EL-OVAL,PATCH,UB,NND,SHISB,L FACE ON,R=G	
IC 644	UMa		Galaxy S	EEF,PS,1E,B*SF,SP OF 2
Apr 18 2023	36"	17mmT4	MF,MS,EL,BSNUC,VF* W TIP,PAIRS=N3398/PGC32587,R=PF	
Feb 05 2005	31"	17mmT4	MB,ML,EDGE ON,FSNUC,F* ON TIP,SHISB CNTR,GBM,PAIR=3398/OTHERS,R=G	
IC 691	UMa		Galaxy I?	
Apr 03 2005	31"	17mmT4	PF,VS,R,FSNUC,R=F	
IC 694	UMa		Galaxy SBm? pec	
Apr 07 2008	31"	17mmT4	VF,PL,R,BLNUC,HISB CNTR,PAIRS=3690/PGC35345,R=G	
Apr 03 2005	31"	17mmT4	PB,MS,EL,BSNUC,HISB CNTR,INTRACT=3690,PAIRS=PGC/MAC,R=G	
Mar 15 1985	12.5"	16mm	INTRACT WITH 3690	
IC 705	UMa		Galaxy C	
Apr 03 2005	31"	17mmT4	MF,PS,R,BSNUC,R=F	
IC 758	UMa		Galaxy SB(rs)cd:	
Mar 06 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,AV ONLY,COMES AND GOES,LOC GOOD,R=P	
IC 801	CVn		Galaxy Sa?	
Mar 04 2006	31"	17mmT4	MF,MS,R,BLNUC,MHISB,BM,R=G	
IC 830	UMa		Galaxy S?	
Mar 26 2006	31"	17mmT4	MB,MS,OVAL,BLNUC,GMBM,MHISB CNTR,R=G	
IC 836	Dra		Galaxy S	
Feb 23 2006	31"	17mmT4	MF,MS,EL,FSNUC,F* OFF NUC,* OFF TIP,SHISB,TAPERED ENDS,R=G	
IC 852	UMa		Galaxy S0-:	
Apr 14 2004	31"	17mmT4	PF,PS,OVAL,FLNUC,R=F	

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IC 853	UMa		Galaxy (R')SAB(s)ab	
Apr 14 2004	31"	17mmT4	DIF,MF,PL,PATCH,UB,NND,R=F	
IC 875	UMa		Galaxy S0	
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,BSNUC,SBM,R=F	
IC 907	UMa		Galaxy SB?b	
Apr 03 2005	31"	17mmT4	PF,MS,EDGE ON,VFSNUC,R=F	
IC 922	UMa		Galaxy	
Apr 03 2005	31"	17mmT4	PF,VS,PATCH,UB,NND,PAIRS=MAC'S,ABELL 1783,R=P	
IC 942	UMa		Galaxy E/S0	
Apr 03 2005	31"	17mmT4	PF,MS,FLNUC,R=F	
IC 945	UMi		Galaxy S	
Feb 05 2005	31"	17mmT4	EF,VS,PATCH,UB,AV,PAIR=PGC48867,R=P	
IC 951	UMa		Galaxy Sd	
Apr 03 2005	31"	17mmT4	PF,ML,OVAL,PATCH,UB,NND,R=F	
IC 954	UMi		Galaxy Pec	
May 16 2004	31"	17mmT4	PF,PS,OVAL,PATCH,VFNUC,F* OFF EDGE,R=F	
IC 995	UMa		Galaxy Sdm:	
Jun 01 2003	12.5"	9mmT6	EDIF,EF,ES,AV,SUSP,R=P	
Mar 06 2003	12.5"	9mmT6	EDIF,EF,VS,AV AFTER A WHILE,R=P	
IC 996	UMa		Galaxy Sbc	
Jun 01 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV HOLDS,R=P	
Mar 06 2003	12.5"	9mmT6	EDIF,EF,VS,AV ONLY,R=P	
NGC 1184	Cep		H704-2 Galaxy S0/a	F,PL,ME
Jan 30 2003	12.5"	9mmT6	MB,PL,EDGE ON,FNUC,SBM,CNTR BULGE,R=G	
Sep 06 2002	12.5"	9mmT6	MB,ML,EL,SMWHT EDGE ON,HISB CNTR,GMBM,CNTR BULGE	
NGC 1343	Cas		H694-3 Galaxy SAB(s)b: pec	F,VS,IR,GBM,D*V NR
Jan 30 2003	12.5"	9mmT6	MB,PL,R,FNUC,S HISB,F* OFF TO ONE SIDE,FACE ON,R=G	
NGC 1469	Cam		Galaxy SA0-:	VF,VS,R,B*NR
Jan 30 2003	12.5"	9mmT6	VF,PL,OVAL,BNUC,HISB,GMBM,BLNUC,R=E	
NGC 1485	Cam		Galaxy SAB? sp	EF,PS,R
Jan 30 2003	12.5"	9mmT6	PF,VL,OVAL,UB,NND,HINT OF * NUC SUSP,R=F	
NGC 1530	Cam		Galaxy SB(rs)b	PB,L
Jan 30 2003	12.5"	9mmT6	DIF,PF,PL,OVAL,UB,* NUC SUSP,R=F	
NGC 1544	Cep		Galaxy S?	VF,VS
Jan 30 2003	12.5"	9mmT6	PF,MS,OVAL,PATCH,FNUC,2F*S BOTH SIDES,F*IN GLXY,SNUC,SBM,R=F	
NGC 1560	Cam		Galaxy SA(s)d sp	VF,L,E,*9.3SP
Jan 30 2003	12.5"	9mmT6	MF,PL,OVAL,PATCH,UB,NND,F* IN GLXY,R=F	

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NGC 1569	Cam	H768-2	Galaxy IBm	PB,S,LE,BNM,*9.5N1'
Jan 30 2003	12.5"	9mmT6	VB,PL,OVAL,BNUC,MHISB,TAD POLE SHAPE,F*IN EDGE,DUST LANE SUSP,R=G	
Oct 03 1981	12.5"	16mm	MF,PS,EL,S OF B*,HISB,NND	
Sep 18 1980	12.5"	24mm		
NGC 1573	Cam		Galaxy E	VF,S,*9.5F
Feb 21 2006	31"	17mmT4	PB,ML,OVAL-R,BLNUC,MUCH BM,HISB CNTR,PAIRS=PGC'S,R=G	
Jan 30 2003	12.5"	9mmT6	PB,ML,OVAL,BNUC,SHISB,LNUC RGN,PAIR/PGC15548,R=G	
NGC 1961	Cam	H747-3	Galaxy SAB(rs)c	CF,PL,IF,MBM,ER,*INV
Jan 30 2003	12.5"	9mmT6	MF,VL,OVAL,PATCH,UB,SHISB,F* IN GLXY,CL 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,SLT OVAL,F* S PART OF GLXY	
Sep 18 1980	12.5"	24mm		
NGC 2128	Cam		Galaxy S0-	VF,VS,VLE
Dec 15 2004	12.5"	12mmT4	PF,MS,R,FLNUC,SHISB,R=F	
NGC 2146	Cam		Galaxy SB(s)ab pec	PB,2'L,LE
Nov 24 2003	31"	17mmT4	PB,EL-OVAL,BSNUC,L DIF ARMS,DUST LANE DET ONE SIDE OF NUC,R=E	
Oct 03 1981	12.5"	16mm	DIF,MB,PL,EL3*S SE OF GLXY,PATCHY,BVARIES,NND,OVAL SHAPE	
Sep 18 1980	12.5"	24mm		
Dec 21 1981	12.5"	24mm	MB,PL,EL,HISP,SBM,CNTR BULGE DET,CL OF F*S TO ONE SIDE	
NGC 2146A	Cam		Galaxy SAB(s)c:	
Dec 15 2004	12.5"	12mmT4	VDIF,VF,ML,PATCH,NND,R=P	
NGC 2208	Aur		Galaxy S0:	PF,PS,LE
Dec 20 2003	31"	25mm	PB,ML,EL,BLNUC,HISB CNTR,R=G	
NGC 2256	Cam		Galaxy SAB0-?	F,R,*9.5 3'SF
Jan 30 2005	31"	17mmT4	MB,ML,EL,FLNUC,SOFT CNTR,;PAIRS=MAC,R=G	
NGC 2258	Cam		Galaxy SA(r)0^	F,2*10,11F
Jan 30 2005	31"	17mmT4	VB,PL,EL,FLNUC,MHISB CNTR,VF* OR COMP OFF ONE EDGE,OTHERS,R=G	
NGC 2268	Cam		Galaxy SAB(r)bc	PF,PL,LE
Sep 06 2002	12.5"	9mmT6	DIF,MF,PL,IRR IN SHAPE,ONE SIDE THICKER,NND,UB,S HISB,VF* IN EDGE OF GLXY	
Oct 03 1981	12.5"	16mm	EDIF,MF,PL,EL,SMWHT BM,OVAL,NNS	
Sep 18 1980	12.5"	24mm		
NGC 2273	Lyn		Galaxy SB(r)a:	F,S,IR,(R)
Feb 17 2004	31"	17mmT4	PB,ML,OVAL,BSNUC,HISB CNTR,SPR STR SUSP,FACE ON,SUDDENDLY MBM,R=E	
NGC 2273B	Lyn		Galaxy SB(rs)cd:	
Feb 17 2004	31"	17mmT4	DIF,VF,VL,OVAL,PATCH,NND,B* ON EDGE,SHISB THROT,R=F	
NGC 2276	Cep		Galaxy SAB(rs)c	F,60",LBM
Sep 06 2002	12.5"	9mmT6	DIF,PF,VL,OVAL,UB,NND,CLOSE TO B*,PAIR/2300/IC455	
NGC 2300	Cep		Galaxy SA0^	PB,PL,LE,BM
Sep 06 2002	12.5"	9mmT6	VB,PL,R,MHISB,BM,PAIR/2276/IC455	

Circumpolar Observations

NGC 2314	Cam		Galaxy E3	VF,S,R
Feb 01 2005	31"	17mmT4	PB,PL,EL,BLNUC,HISB,R=G	
Jan 30 2005	31"	17mmT4	PB,ML,R,BLNUC,HISB CNTR,PAIR=IC2174,R=G	
Sep 18 1980	12.5"	24mm		
NGC 2315	Lyn		Galaxy S0/a	EF
Feb 17 2004	31"	17mmT4	PB,ML,EDGE ON,BLNUC,HISB CNTR,PAIRS=PGC20054/MAC,R=G	
NGC 2320	Lyn		H861-2 Galaxy E	PB,S,IR,GBM,*8SP
Feb 17 2004	31"	17mmT4	MF,PL,OVAL,BLNUC,HISB CNTR,GMBM,PAIR=2322,R=G	
NGC 2321	Lyn		Galaxy SBa	VF,12'N OF2320
Feb 17 2004	31"	17mmT4	MF,PL,EL,FLNUC,R=F	
NGC 2322	Lyn		H874-3 Galaxy SBa:	VF,VS,LE
Feb 17 2004	31"	17mmT4	MB,ML,EL,BLNUC,MHISB CNTR,PAIR=2320,R=F	
NGC 2326	Lyn		H734-2 Galaxy SB(rs)b	VF,PL,IR,PSMBM,ST P
Feb 17 2004	31"	17mmT4	PF,PL,OVAL,FLNUC,SLT BM,PAIR=2326A,R=F	
NGC 2326A	Lyn		Galaxy SA(s)m:	
Feb 17 2004	31"	17mmT4	PF,MS,PATCH,UB,NND,PAIR=2326,R=P	
NGC 2330	Lyn		Galaxy E	VF,VS,VSTELLAR
Jan 30 2005	31"	17mmT4	MF,VS,R,BSNUC,PAIR=2332,R=F	
NGC 2332	Lyn		H862-2 Galaxy S0:	F,S,R,PSBM
Jan 30 2005	31"	17mmT4	MF,MS,EL,BLNUC,MHISB,PAIR=2330,R=G	
NGC 2336	Cam		Galaxy SAB(r)bc	PB,PL,R,2*11NR
Dec 21 1981	12.5"	16mm	EDIF,MF,PL,R,SBM,PATCHY,LOW SURFACE B	
Sep 18 1980	12.5"	24mm		
NGC 2340	Lyn		H736-2 Galaxy E	PF,S,R,GLBM,R
Feb 01 2005	31"	17mmT4	MF,ML,EL,FLNUC,MHISB CNTR,NGC2340 CL,R=G	
Jan 30 2005	31"	17mmT4	MB,VL,EL,PATCH,UB,NND,NGC2340 CL,R=G	
NGC 2347	Cam		H746-3 Galaxy (R')SA(r)b:	VF,S,R,LBM
Feb 01 2005	31"	17mmT4	PB,VL,OVAL,FLNUC,SOFT GLOW,R=G	
Sep 18 1980	12.5"	24mm		
NGC 2363	Cam		Galaxy Irr	NEB* OR VFVS,2366SF
Feb 01 2005	31"	17mmT4	VF,VS,OVAL,FSNUC,SMWHT BM,COMP=2366,R=P	
NGC 2366	Cam		H748-3 Galaxy Irr	VF,PL,MBM,CVEDTAILS
Feb 01 2005	31"	17mmT4	MF,EL,BSNUC,IRR,FARM'S OFF ONE SIDE,2 NUC DET,S B,S F,COMP=2363,R=F	
Dec 21 1981	12.5"	24mm	EDIF,EF,ML,EL,BSNUC	
Sep 18 1980	12.5"	24mm		

Circumpolar Observations

NGC 2403	Cam		H44-5	Galaxy Sc	CB,EL,VME,VGMBMN
Dec 21 1981	12.5"	16mm	SPR STR DET, BEAUTIFUL!!!		
Dec 21 1981	12.5"	24mm	PB,PL,HISB,BSNUC,L OVAL PATCH,SOME STR SUSP,B*S IN GLXY		
Sep 18 1980	12.5"	24mm	2*S IN GLXY PRESENT		
NGC 2426	Lyn		H822-2	Galaxy E	CF,R,VGBM,R,*8P
Feb 01 2005	31"	17mmT4	VB,ML,R,BNUC,HISB,GMB,BCORE WELL DEFINED,PAIRS=2429/2429B,R=E		
NGC 2429	Lyn			Galaxy S?	PF,PS,VME,*12ATT
Feb 01 2005	31"	17mmT4	MB,MS,EDGE ON,FSNUC,MHISB,INTRACT=2429B,* IN TIP,BKN AREAS,R=G		
NGC 2429B	Lyn			Galaxy Sbc	
Feb 01 2005	31"	17mmT4	EF,VS,INTRACT=2429,PATCH,AV,R=P		
NGC 2431	Lyn		H829-3	Galaxy (R')SB(s)a:	EF,VS,R,BM
Feb 01 2005	31"	17mmT4	MF,MS,R,FSNUC,GRAD BM,SHISB CNTR,R=F		
NGC 2441	Cam			Galaxy SAB(r)b:	VF,PS
Feb 01 2005	31"	17mmT4	DIF,PF,EL,PATCH,UB,NND,PATCHY,SOME STR SUSP,R=G		
Sep 18 1980	12.5"	24mm			
NGC 2446	Lyn			Galaxy Sb	F,AM4*
Feb 01 2005	31"	17mmT4	MF,MS,EL,BSNUC,MHISB,SBM,2*S BOTH SIDES,KNOTS,PATCHY AREAS,MAC,R=G		
NGC 2456	Lyn			Galaxy E	VF,R,VGBM
Feb 01 2005	31"	17mmT4	MF,PL,R,FLNUC,SOFT NUC,R=G		
NGC 2457	Lyn			Galaxy Sbc	F,PL,R,2456SP
Feb 01 2005	31"	17mmT4	VF,PS,OVAL,PATCH,UB,NND,PAIRS=PGC22161/PGC22172,R=P		
NGC 2458	Lyn			Galaxy	VF,*12CLOSE
Feb 01 2005	31"	17mmT4	MF,PS,OVAL,PATCH,UB,NND,PAIRS=2461/MAC,R=F		
NGC 2460	Cam			Galaxy SA(s)a	F,S,R,S*CENTRE
Feb 01 2005	31"	17mmT4	VB,VL,R,BLNUC,GMBM,HISB,PAIRS=IC2209/PGC22269,R=E		
Sep 18 1980	12.5"	24mm			
NGC 2461	Lyn			Galaxy E/S0	*13SLIGHTLYNEBULOUS
Feb 01 2005	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,PAIRS=2458/MAC,R=F		
Feb 17 2004	31"	17mmT4	PF,PS,OVAL,SNUC,SLT BM,PAIR=2458,R=F		
NGC 2462	Lyn			Galaxy	VF,VS,VLBM
Feb 17 2004	31"	17mmT4	MF,PS,OVAL,FLNUC,SBM,PAIR=2463,R=F		
NGC 2463	Lyn			Galaxy	EF,R
Feb 17 2004	31"	17mmT4	MF,PS,OVAL,BLNUC,SBM,SHISB CNTR,PAIR=2462,R=F		
NGC 2468	Lyn			Galaxy SA0:	F,R,BM
Feb 17 2004	31"	17mmT4	MF,MS,EL,LNUC,INTRACT=MAC,SHISB CNTR,R=F		

Circumpolar Observations

NGC 2469	Lyn		H836-3	Galaxy Sbc pec:	F,VS,R,*9SF
Feb 01 2005	31"	17mmT4	MB,PL,OVAL,FLNUC,MHISB,PAIR=2473,R=G		
Feb 17 2004	31"	17mmT4	MB,MS,OVAL,HISB CNTR,BLNUC AREA THAT IS EL,BAR?,R=G		
NGC 2472	Lyn			Galaxy Sb	2OF10NEB IN LINE
Feb 01 2005	31"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,PAIR=2469,R=F		
Feb 17 2004	31"	17mmT4	MF,PS,OVAL,PATCH,UB,NND,R=F		
NGC 2474	Lyn		H830-3	Galaxy E0	F,PS,(E),(BMVS*)L*NF
Feb 17 2004	31"	17mmT4	MB,PS,OVAL,BSNUC,COMP=2474,MHISB CNTR,R=G		
NGC 2475	Lyn			Galaxy E1	DNEB W/2474
Feb 17 2004	31"	17mmT4	MB,MS,OVAL,BLNUC,COMP=2474,HISB CNTR,R=G		
NGC 2488	Lyn		H837-3	Galaxy S0-:	VF,VS,R,GLBM
Feb 17 2004	31"	17mmT4	MB,ML,OVAL,BLNUC,MHISB CNTR,PAIR=PGC22533,R=G		
NGC 2497	Lyn		H838-3	Galaxy E?	EF,VS
Feb 17 2004	31"	17mmT4	MB,ML,BLNUC,MHISB CNTR,4 OTHERS PRESENT,R=G		
NGC 2500	Lyn		H709-3	Galaxy SB(rs)d	F,L,R,VGBM,R,AM ST
Jan 08 2003	12.5"	9mmT6	MB,VL,FARMS,*NUC,F* IN EDGE OF ARM,R-OVAL,SPR STR SUSP		
NGC 2505	Lyn		H839-3	Galaxy SBa	EF,VS
Feb 17 2004	31"	17mmT4	MF,ML,OVAL,FSNUC,F HALO OF ARMS,R=F		
NGC 2518	Lyn			Galaxy E-S0	2NEB,F,L,R,GBM
Feb 01 2005	31"	17mmT4	MF,MS,BSNUC,SHISB CNTR,PAIR=MAC,R=F		
NGC 2521	Lyn			Galaxy SA0- pec?	PF,PL,R,PSBM,*9NP3'
Feb 01 2005	31"	17mmT4	MB,MS,OVAL,BLNUC,BMBM,MHISB,PAIRS=PGC'S,R=G		
NGC 2523	Cam			Galaxy SB(r)bc	PB,PL,LE,LBM,*NR
Feb 01 2005	31"	17mmT4	VF,VL,EL,BLNUC,MHISB,B BAR LIKE NUC,GMBM,HALO SUR BAR,R=G		
Sep 18 1980	12.5"	24mm			
NGC 2523A	Cam			Galaxy SB(s)c:	
Feb 01 2005	31"	17mmT4	PF,ML,OVAL,PATCH,UB,NND,PATCHY AREAS,R=F		
NGC 2523B	Cam			Galaxy SA(s)b: sp	
Feb 01 2005	31"	17mmT4	MF,PS,EDGE ON,FSNUC,F* IN NUC,CNTR BULGE,R=F		
NGC 2523C	Cam			Galaxy E?	
Feb 01 2005	31"	17mmT4	PF,PS,OVAL,FSNUC,R=F		
NGC 2534	Lyn		H840-3	Galaxy E1? pec	PF,PL,R,PSBM,*8S
Feb 01 2005	31"	17mmT4	MB,MS,BLNUC,SHISB CNTR,HALO SUR NUC,R=G		
NGC 2544	Cam			Galaxy SB(s)a:	EEF,PS,R,SEVB*AROUND
Feb 01 2005	31"	17mmT4	MB,MS,OVAL,BLNUC,MHISB CNTR,PAIR=PGC23462,R=F		
NGC 2549	Lyn			Galaxy SA(r)0^ sp	PB,S,ME0,PSMBM
Feb 17 2004	31"	17mmT4	PB,PL,EL,VBNUC,MHISB,HISB CNTR,L HALO OF ARMS,PAIR=MAC,R=E		

Circumpolar Observations

NGC 2550	Cam		Galaxy Sb:	EEF,PS,CE
Feb 01 2005	31"	17mmT4	MB,MS,EL,UB,NND,MHISB,F* ON TIP,R=G	
NGC 2550A	Cam		Galaxy Sc	
Feb 01 2005	31"	17mmT4	MB,PL,OVAL,PATCH,UB,NND,MHISB,F* ON EDGE,PAIR=PGC23732,R=G	
NGC 2551	Cam		Galaxy SA(s)0/a	VF,S,F*IN CENTRE
Sep 18 1980	12.5"	24mm		
NGC 2552	Lyn		H711-3 Galaxy SA(s)m?	EF,CL,LE45
Feb 01 2005	31"	17mmT4	DIF,VF,EL,PATCH,UB,BKN PATCHES,SVRL F*S IN GLXY,R=F	
NGC 2591	Cam		Galaxy Scd: sp	F,S,E,LBM
Feb 01 2005	31"	17mmT4	MB,ML,EDGE ON,UB,NND,SHISB,CNTR BULGE,F* OFF ONE TIP,R=G	
NGC 2600	UMa		Galaxy Sb	NO DESCRIP
Oct 25 2006	31"	17mmT4	PF,MS,EL,PATCH,UB,NND,R=F	
Feb 01 2005	31"	17mmT4	PF,PS,EDGE ON,PATCH,UB,NND,R=F	
NGC 2602	UMa		Galaxy	EF,S,R,*P
Oct 25 2006	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,PAIRS=2606/MAC,R=F	
Feb 01 2005	31"	17mmT4	VF,VS,PATCH,UB,NND,PAIRS=2603/MAC,R=F	
NGC 2603	UMa		Galaxy S	EF,VS,
Feb 01 2005	31"	17mmT4	MF,MS,OVAL,PATCH,FLNUC,PAIRS=2602/MAC,R=F	
NGC 2614	UMa		Galaxy SA(r)c:	EF,PS,R
Feb 01 2005	31"	17mmT4	VDIF,VF,VL,OVAL,PATCH,UB,NND,F* IN EDGE,R=P	
NGC 2629	UMa		H982-3 Galaxy SA(r)0^:	VF,S,STELLAR
Feb 01 2005	31"	17mmT4	MB,MS,R,BLNUC,HISB,PAIR=2641,R=G	
NGC 2630	UMa		Galaxy Sbc	2VF,VS,V NR 2629
Feb 01 2005	31"	17mmT4	PF,MS,EL,PATCH,UB,NND,R=F	
NGC 2633	Cam		Galaxy SB(s)b	F,S,LE
Feb 04 2005	31"	17mmT4	PB,ML,EL,BLNUC,SHISB,B* IN NUC,GMBM,NGC2633 GRP,R=F	
Sep 18 1980	12.5"	24mm		
NGC 2634	Cam		Galaxy E1:	F,S,LE
Feb 04 2005	31"	17mmT4	PB,ML,R,BLNUC,GMBM,SHISB,NGC2633 GRP,R=G	
NGC 2634A	Cam		Galaxy SB(s)bc? sp	
Feb 04 2005	31"	17mmT4	MF,ML,EDGE ON,UB,NND,NGC2633 GRP,R=F	
NGC 2636	Cam		Galaxy E0:	VF,S,2*11,12 F
Feb 04 2005	31"	17mmT4	MF,MS,R,BSNUC,SHISB CNTR,PAIR=IC2389,R=G	
NGC 2639	UMa		H204-1 Galaxy (R)SA(r)a:?	CB,S,E130,PSMBM
Mar 15 1985	12.5"	16mm	PF,PS,EL,SBM,NO *S,FORMS TRI WITH 2 OTHER *S	
Dec 03 1980	12.5"	24mm		

Circumpolar Observations

NGC 2641	UMa		H983-3	Galaxy S0:	VF,S,STELLAR
Feb 01 2005	31"	17mmT4	MF,MS,R,FLNUC,PAIR=2629,R=F		
NGC 2646	Cam			Galaxy SB(r)0^:	VF,S,2F*2.5'SF
Feb 04 2005	31"	17mmT4	MF,MS,R,FLNUC,VF* OFF ONE EDGE,BM,MHISB CNTR,R=G		
Sep 18 1980	12.5"	24mm			
NGC 2650	UMa		H908-2	Galaxy SB(rs)b:	PB,PL,IF,ER
Feb 04 2005	31"	17mmT4	MB,MS,R,BLNUC,LOC IN TRI OF *S,HISB CNTR,BM,R=G		
NGC 2654	UMa			Galaxy SBab: sp	PF,S,F*IN M,F*NR SP
Mar 15 1985	12.5"	16mm	PF,PS,EDGE ON,BNUC		
NGC 2655	Cam		H288-1	Galaxy SAB(s)0/a	VB,CL,LE90,GSVMBM
Oct 16 1982	12.5"	12mm	F*E 1 GLXY 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 2656	UMa			Galaxy SA0- pec:	EF,PSBM
Feb 01 2005	31"	17mmT4	PF,MS,OVAL,PATCH,FSNUC,R=F		
NGC 2675	UMa			Galaxy E	VF,R,*15P 12S
Feb 04 2005	31"	17mmT4	MB,MS,R,BLNUC,SHISB CNTR,GMBM,R=G		
NGC 2681	UMa		H242-1	Galaxy (R')SAB(rs)0/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 2685	UMa			Galaxy (R)SB0+ pec	PF,R,F*INCENTRE
Mar 15 1985	12.5"	12mm	DIF,VF,VS,EDGE ON,BNUC,L CNTR RGN,TAPERED ENDS,F GLOW SUR NUC		
NGC 2692	UMa		H831-3	Galaxy SBab:	VF,S,R,PSBM
Feb 04 2005	31"	17mmT4	MB,PS,OVAL-R,BLNUC,SHISB,*S OFF TO SIDE,PAIR=PGC25130,R=G		
NGC 2693	UMa		H823-2	Galaxy E3:	PB,LE,PSMBM
Feb 04 2005	31"	17mmT4	VB,PL,BLNUC,MHISB,PAIR=2694,R=G		
Mar 15 1985	12.5"	12mm	DIF,VF,VS,S OVAL PATCH,NO *S		
Dec 03 1980	12.5"	24mm			
NGC 2694	UMa			Galaxy E1	VF,VS,1'S OF2693
Feb 04 2005	31"	17mmT4	MB,MS,R,PATCH,UB,NND,SHISB,PAIR=2693,R=F		
NGC 2701	UMa		H66-4	Galaxy SAB(rs)c:	PB,FANSHAPED,*11ATT
Mar 15 1985	12.5"	12mm	EDIF,VF,MS,OVAL PATCH,UB,B* IN S PART,NND,SN?		
NGC 2710	UMa		H841-3	Galaxy SB(rs)b	VF,S
Feb 04 2005	31"	17mmT4	PB,PL,EL,PATCH,UB,NND,R=G		

Circumpolar Observations

NGC 2715	Cam		Galaxy SAB(rs)c	PB,L,E
Mar 06 2003	12.5"	9mmT6	PB,VL,OVAL,PATCH,NND,SHISB,PATCHES & AREAS OF VAR B,R=G	
Sep 18 1980	12.5"	24mm		
NGC 2726	UMa		H834-2 Galaxy Sa?	CF,PS,IR,ER
Mar 06 2003	12.5"	9mmT6	MF,ML,EL,UB,NND,MHISB,VF* IN GLXY,SMWHT BKN,R=G	
NGC 2732	Cam		Galaxy S0 sp	PB,S,E45,*13NF
Mar 26 2003	12.5"	9mmT6	MB,PL,EL,BNUC,F* ON TIP,R=F	
Sep 18 1980	12.5"	24mm		
NGC 2739	UMa		Galaxy Sa	VF,S,R,NP 2740
Mar 06 2003	12.5"	9mmT6	VDIF,EF,VS,PATCH,AV,PAIR=2740,R=P	
NGC 2740	UMa		Galaxy S?	VF,PS,R
Mar 06 2003	12.5"	9mmT6	VDIF,EF,PS,PATCH,VF* CLOSE TO GLXY,PAIR=2739,R=P	
NGC 2742	UMa		H249-1 Galaxy SA(s)c:	CB,CL,E90,ER
Mar 06 2003	12.5"	9mmT6	VB,VL,OVAL,NND,MHISB,PATCHY,SPR STR SUSP,R=E	
Mar 15 1985	12.5"	16mm	DIF,PF,PS,PATCHY-OVAL,NND,UB,3F*S TO S 1 GLXY 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 2742A	UMa		Galaxy SB(s)b pec?	
Mar 06 2003	12.5"	9mmT6	MF,ML,OVAL,PATCH,NND,SLT HISB,R=F	
NGC 2748	Cam		Galaxy SAbc	PB,PL,E,VGLBM
Mar 26 2003	12.5"	9mmT6	MB,VL,PATCH,UB,NND,SHISB,R=G	
Sep 18 1980	12.5"	24mm		
NGC 2756	UMa		H828-2 Galaxy Sb	PB,PS,E,VGBM
Mar 06 2003	12.5"	9mmT6	MB,ML,R,BNUC,LNUC AREA,MHISB CNTR,PAIR=PGC25755,R=G	
Jan 08 2003	12.5"	9mmT6	MB,ML,SMHISB,PATCH,OVAL,UB,COMP SUSP	
NGC 2762	UMa		Galaxy S	VVF,S,R,1ST OF 4
Dec 07 2005	31"	17mmT4	VF,MS,EL,PATCH,UB,NND,PAIR=2767,R=P	
NGC 2767	UMa		Galaxy S?	VF,SBM*15,2ND OF 4
Mar 06 2003	12.5"	9mmT6	MB,PS,R,BNUC,PAIR/2771/2769,R=F	
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,*NUC,HISB CNTR,MHISB ARMS,R=E	
Mar 15 1985	12.5"	16mm	MB,PL,OVAL,PATCHY,MHISB TOWARDS CNTR,NO *S	
Oct 16 1982	12.5"	12mm	MB,ML,2F*S OFF TO S,2B*S ON BOTH SIDES,EL,MBM,TAPERED,BNUC	
Dec 03 1980	12.5"	24mm		
NGC 2769	UMa		Galaxy Sa	PF,S,E,PSLBM,3RD OF 4
Mar 06 2003	12.5"	9mmT6	B,ML,EL-EDGE ON,FNUC,PAIR/2771/2767,R=F	
NGC 2771	UMa		Galaxy (R')SB(r)ab	VF,S,LE,4TH OF 4
Mar 06 2003	12.5"	9mmT6	MB,PL,OVAL,PATCH,FNUC,MHISB,PAIR/2769/2767,R=F	

Circumpolar Observations

NGC 2787	UMa		H216-1	Galaxy SB(r)0+	B,PL,LE90,MBM,R,*INV
Mar 26 2003	12.5"	9mmT6	PB,ML,R,MHISB,FACE ON,F* IN GLXY 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 E PART		
Oct 16 1982	12.5"	16mm	MB,MS,BNUC,OVAL,F* IN S PART,HISB CNTR		
NGC 2800	UMa		H832-3	Galaxy E	VF,S,LE,*ATT,*INV
Mar 26 2003	12.5"	9mmT6	PB,MS,OVAL,NND,B* IN GLXY,R=G		
NGC 2805	UMa		H878-3	Galaxy SAB(rs)d	VF,L,R,MBM
Apr 14 2004	31"	17mmT4	DIF,PF,VL,PATCH,UB,NND,R=F		
Jan 08 2003	12.5"	9mmT6	DIF,PF,PL,FNUC,R,UB WITH FT NUC,OVAL		
NGC 2810	UMa		H749-3	Galaxy E	F,CS,BM
Apr 14 2004	31"	17mmT4	MB,ML,R,LARG BNUC,HISB CNTR,R=G		
NGC 2814	UMa		H868-2	Galaxy Sb:	F,S,IF,1ST OF 2
Apr 14 2004	31"	17mmT4	MB,ML,EL,FLNUC,SHISB,PAIRS/IC2458/2820,R=G		
Jan 08 2003	12.5"	9mmT6	MF,PL,EL-OVAL,NND,SLT HISB,PAIR/2820/IC2458		
NGC 2820	UMa		H869-2	Galaxy SB(s)c pec sp	F,S,E,2ND OF 2
Apr 14 2004	31"	17mmT4	MB,VL,EDGE ON,UB,NND,SHISB,PAIRS/IC2458/2814,R=E		
Jan 08 2003	12.5"	9mmT6	MB,ML,NICE EDGE ON,DUST SUSP,AREAS BKN,NND,SHISB,PAIR/IC2458/2814		
NGC 2841	UMa		H205-1	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
Apr 14 2004	31"	17mmT4	VB,EL,EL,BLNUC,HISB,L 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	FTR * OFF NE,SAME		
Oct 16 1982	12.5"	16mm	VB,ML,EL,BNUC,F* IN N TIP,F*NW,GMBM,DIF HALO,VF*N		
Dec 03 1980	12.5"	24mm			
NGC 2870	UMa		H846-3	Galaxy Sbc	CF,S,E,VGLBM
Apr 14 2004	31"	17mmT4	MF,ML,EL,UB,F* IN TIP,SLT BM,R=G		
NGC 2880	UMa		H260-1	Galaxy SB0-	B,CS,R,MBM,AM ST
Apr 14 2004	31"	17mmT4	PB,ML,R,BLNUC,HISB,GRADUADLY MBM,PAIR=PGC26940,R=G		
Mar 15 1985	12.5"	12mm	DIF,PF,VS,OVAL-R,BM,LINE OF F*S TO N,B* OFF TO E		
NGC 2892	UMa			Galaxy E+ pec:	PF,PS,R,LBM
Apr 14 2004	31"	17mmT4	MB,ML,R,BLNUC,HISB CNTR,R=G		
NGC 2895	UMa			Galaxy SBc	VF,VS,R,VGBM,D*7'S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,PAIRS/MAC/PGC27076,*NUC,R=F		
NGC 2908	Dra		H977-3	Galaxy S	EF,VS
Apr 14 2004	31"	17mmT4	DIF,MF,MS,R,UB,NND,F* IN GLXY,R=F		
NGC 2938	Dra		H963-3	Galaxy SB(rs)cd	EF,S,IF,D*F3'
Apr 14 2004	31"	17mmT4	DIF,PF,ML,OVAL,PATCH,UB,NND,R=F		

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NGC 2950	UMa	H68-4	Galaxy (R)SB(r)0[^]	B,PS,R,VGVMBMN
Apr 14 2004	31"	17mmT4	MF,PS,R,BLNUC,SVRL F*S ON EDGE OF HALO,HISB CNTR,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 SVRL GLXY DIA,GMBM,OVAL	
Dec 03 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
NGC 2957A	Dra		Galaxy E1:	EF,*13NR
Apr 14 2004	31"	17mmT4	MF,PS,PATCH,UB,NND,INTRACT,CAN JUST BARELY SPLIT THE TWO,R=F	
NGC 2957B	Dra		Galaxy E	
Apr 14 2004	31"	17mmT4	MF,PS,PATCH,FSNUC,INTRACT,CAN JUST BARELY SPLIT THE TWO,R=F	
NGC 2959	UMa		Galaxy (R')SAB(rs)ab p	F,PL,R,VGLBM,ST N
Apr 14 2004	31"	17mmT4	MF,ML,BLNUC,PAIR=2961,R=G	
NGC 2961	UMa		Galaxy Sb:	CF,S,LE,NF2959
Apr 14 2004	31"	17mmT4	PF,ML,EL,PATCH,UB,NND,PAIR=2959,R=F	
NGC 2963	Dra	H315-3	Galaxy SBab	VF,VS,R,BM
Apr 14 2004	31"	17mmT4	PAIRS/2957A/2957B/PGC28177	
NGC 2976	UMa	H285-1	Galaxy SAc pec	B,VL,ME152,ST INV
Apr 14 2004	31"	17mmT4	MB,VL,PATCH,UB,MHISB,V UNIQUE IN APPEARANCE,3*S SUR EDGE,RECT,R=E	
Mar 15 1985	12.5"	16mm	IRR,DIF,PF,VL,EL,PATCH,F* S EDGE BY NUC,UB	
Mar 27 1981	12.5"	24mm		
Dec 03 1980	12.5"	24mm	F* IN OUTER ARM RGN	
Aug 22 1980	12.5"	24mm		
NGC 2977	Dra	H282-1	Galaxy Sb:	CB,PL,IF,
Apr 14 2004	31"	17mmT4	MF,ML,OVAL,PATCH,FLNUC RGN,SHISB CNTR,R=G	
NGC 2985	UMa	H78-1	Galaxy (R')SA(rs)ab	VB,CL,R,PSMBM,*INV F
Apr 14 2004	31"	17mmT4	VB,PL,R,BLNUC,MHISB,HISB CNTR,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 RGN	
Aug 22 1980	12.5"	24mm		
NGC 3027	UMa	H23-5	Galaxy SB(rs)d:	VF,VL,LE,R
Apr 14 2004	31"	17mmT4	DIF,MF,VL,EL,PATCH,NND,BAR IN GLXY SUSP,CNTR AREA,R=F	

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NGC	3031	UMa	M81	Galaxy SA(s)ab	EB,EL,E156,GSVMBMBN 2
	Apr 09 2023	36"	17mmT4	EB,EL,OVAL,LVBNUC,HISB,BARMS,L AREA ARMS FADE AWAY FROM NUC,VMBM,VHISB MID,FILL	
	Jan 29 2014	36"	17mmT4	M81,EB,EEL-OVAL,VBLNUC,HISB,FARMS ARCHING SUR NUC,FILLS FOV,MANY *S IN GLXY,R=E	
	Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
	Feb 04 2005	31"	17mmT4	EB,EL,EL,BLNUC,HISB,TIGHT CORE,ARMS,R=E	
	Apr 14 2004	31"	17mmT4	EF,EL,BLNUC,HISB,M81,R=E	
	Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
	Mar 15 1985	12.5"	16mm	VB,VL,EL,BLNUC,SOFT NUC,VMBM,1F*S TIP,F HALO TO TAPERED ENDS	
	Mar 02 1984	10"	20mm	SAME	
	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	3034	UMa	M82	H79-4 Galaxy I0 sp	VB,VL,VME(RAY)
	Apr 09 2023	36"	17mmT4	EB,EL,EL,HISB,FILLS FOV,BKN PARTS,PATCHES,CNTR RGN SPLIT,BRT HISB PARTS,AWESOME,F	
	Jan 29 2014	36"	17mmT4	M82,EB,EL,EDGE ON,HISB,PATCHES,NUC REG FRAGMENTED,DUST,DETAIL IN ARMS,SN IN ARM	
	Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013	
	Feb 04 2005	31"	17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BKN,BEST TO DATE,R=E	
	Apr 14 2004	31"	17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BRN 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,VHISB,2 DUST LANES DET,B RGN DET,TAPERED,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	3043	UMa	H835-2	Galaxy Sb: sp	CF,PS,LE,VGBM,*10N7'
	Apr 14 2004	31"	17mmT4	MB,ML,OVAL,PATCH,UB,MHISB,R=G	
	Mar 15 1985	12.5"	16mm	NO FIND,CIRCLES HOT	
NGC	3057	Dra	H978-3	Galaxy SB(s)dm	EF,PL,VLBM,2S* S
	Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,R=P	
NGC	3061	Dra	H903-2	Galaxy (R')SB(rs)c	VF,PL,RESOLVABLE
	Apr 14 2004	31"	17mmT4	DIF,MF,VL,OVAL,PATCH,UB,NND,R=F	
NGC	3065	UMa	H333-2	Galaxy SA(r)0^	PF,VS,R,BM,*11NR
	Mar 06 2003	12.5"	9mmT6	PB,ML,R,BNUC,BLNUC,HISB CNTR,PAIR=3066,R=G	
	Mar 15 1985	12.5"	12mm	VF,MS,OVAL,BM,3066 CLOSE BY,F*NE SVRL GLXY DIA	

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NGC 3066	UMa		H334-2	Galaxy (R')SAB(s)bc p	VF,VS,VGLBM
Mar 06 2003	12.5"	9mmT6	MF,ML,PATCH,UB,NND,PAIR=3065,R=G		
Mar 15 1985	12.5"	12mm	EDIF,VF,MS,PATCHY,UB,NND,SLT BIGGER THAN 3065,PAIR/3065		
NGC 3073	UMa		H853-3	Galaxy SAB0-	VF,S,VGLBM
Mar 06 2003	12.5"	9mmT6	PF,PS,OVAL,PATCH,FNUC,PAIR=3079,R=P		
Jan 08 2003	12.5"	9mmT6	MF,MS,BNUC,OVAL,GMBM,B CNTR BULGE,PAIR/3079/PGC28990		
NGC 3077	UMa		H286-1	Galaxy I0 pec	CB,CL,MBM,R WITH RAY
Mar 06 2003	12.5"	9mmT6	EB,EL-OVAL,BNUC,HISB,LNUC AREA,MUCH HISB CNTR,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,LNUC 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 SB(s)c sp	VB,L,ME135
Mar 06 2003	12.5"	9mmT6	VB,EL,EDGE ON,MHISB,CNTR BULGE,SBM,DUST LANE SUSP,PAIR=3073,R=E		
Jan 08 2003	12.5"	9mmT6	VB,BL,EDGE ON,DUST DET,SLT BULGE IN CNTR,F* IN TIP,MHISB,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,TAPERED,NND		
Dec 03 1980	12.5"	24mm	LOOKS LIKE MINATURE M82		
NGC 3102	UMa		H916-3	Galaxy S0-	VF,VS,R,BM,*11 SP
Mar 06 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,*NUC,*NUC OR F* DET,R=F		
NGC 3147	Dra		H79-1	Galaxy SA(rs)bc	VB,L,R,VGVSVMBM
Apr 23 2003	12.5"	9mmT6	VB,VL,OVAL,BNUC,MHISB,ARMS SUSP,B AREAS IN HALO,GMBM,R=E		
Oct 22 1982	12.5"	16mm	MB,ML,BNUC,INSIDE 4*S,R,SBM,BSNUC		
NGC 3148	UMa			Galaxy SB	*7INPHOTOSPHERE2OR3'
Dec 07 2005	31"	17mmT4	EF,VS,PATCH,UB,NEED TO MOVE B* OUT OFF FOV,AV FIRST THEN HOLDS,R=P		
NGC 3164	UMa			Galaxy S?	EF,S,R,VGLBM
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,SUSP,R=P		
NGC 3168	UMa			Galaxy E	F,PSBM,STELLAR,*7,8N
Apr 23 2003	12.5"	9mmT6	VF,VS,PATCH,NND,PAIR=PGC30027,R=P		
NGC 3172	UMi			Galaxy Sb	VF,R,GBM,*11S2'
Sep 06 2002	12.5"	9mmT6	DIF,VF,PS,OVAL PATCH,NGC CLOSEST TO POLARIS,F* 1 GLXY DIA AWAY		
NGC 3182	UMa		H265-1	Galaxy SA(r)a?	CB,CL,IR,VGBM
Apr 23 2003	12.5"	9mmT6	MB,PL,OVAL,BNUC,SHISB,BLNUC AREA,R=G		
NGC 3188	UMa		H910-3	Galaxy (R)SB(r)ab	VF,PL,R
Dec 07 2005	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,VF* OFF ONE SIDE,PAIR=3188A,R=F		
Apr 23 2003	12.5"	9mmT6	VDIF,EF,ES,PATCH,AV,R=P		
Apr 23 2003	12.5"	9mmT6	DIF,VF,VS,FNUC,SLT ,EL DET,HINT OF COMPANION,R=P		

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NGC 3188A	UMa		Galaxy S?	
Dec 07 2005	31"	17mmT4	EF,ES,PATCH,AV,SUSP,V CLOSE TO NGC3188,R=P	
NGC 3197	Dra		H966-3 Galaxy Sbc	VF,VS
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,NND,R=P	
NGC 3206	UMa		H266-1 Galaxy SB(s)cd	PB,CL,E,VGLBM
Apr 23 2003	12.5"	9mmT6	DIF,VF,FL,OVAL-R,PATCH,UB,NND,R=G	
Mar 15 1985	12.5"	16mm	NO FIND,CIRCLES HOT	
NGC 3212	Dra		H980-3 Galaxy SB?	VF,S,2ND OF 3
Feb 04 2005	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,VF* OFF ONE EDGE,PAIR=3125/MAC,R=F	
NGC 3214	UMa		Galaxy SA0/a:	CB,VS,R,SBM,5'P3220
Apr 23 2003	12.5"	9mmT6	VF,PS,OVAL,PATCH,FNUC,R=F	
NGC 3215	Dra		H981-3 Galaxy S?	VF,S,3RD OF 3
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,PATCH,UB,SMWHT BM,F* ON EDGE,PAIR=3212/MAC,R=F	
NGC 3220	UMa		H911-3 Galaxy Sb: sp	PF,CL,E92,*9F9.5'
Apr 23 2003	12.5"	9mmT6	DIF,VF,ML,EDGE ON,VFNUC,AV,BLINKING GLXY,*NUC,COMES AND GOES,R=F	
NGC 3225	UMa		H882-2 Galaxy Scd:	CF,PL,LE,VGBM
Apr 23 2003	12.5"	9mmT6	DIF,MF,PL,EL,PATCH,NND,SHISB,F* OFF ONE SIDE,R=F	
Jan 08 2003	12.5"	9mmT6	DIF,PF,MS,FNUC,OVAL,SBM,F* ON EDGE,L CNTR RGN	
NGC 3236	UMa		Galaxy E/S0	EF,VS,PSBM,2*11,12 F
Feb 04 2005	31"	17mmT4	PF,PS,R,FSNUC,R=F	
NGC 3238	UMa		H883-2 Galaxy SA(r)0^:	F,S,R,PSLBM
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,BSNUC,SHISB,BAR SUSP,PAIR=PGC30649,R=G	
NGC 3252	Dra		H316-3 Galaxy SBd? sp	EF,PS,ME,R
Feb 04 2005	31"	17mmT4	MF,PL,EDGE ON,PATCH,UB,NND,R=G	
NGC 3259	UMa		H870-2 Galaxy SAB(rs)bc:	F,S,R,GBM
Feb 04 2005	31"	17mmT4	MB,ML,FLNUC,SHISB,SOFT NUC,R=G	
Mar 15 1985	12.5"	16mm	EDIF,VF,VS,PATCHY,UB,NND,NO *S	
NGC 3264	UMa		Galaxy SBdm:	EF,BET 2S*
Feb 04 2005	31"	17mmT4	MF,PL,OVAL,PATCH,UB,*S OPPOSITE ENDS,R=F	
NGC 3266	UMa		H871-2 Galaxy SAB0^?	CF,VS,R,PSMBM*
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,BLNUC,MHISB CNTR,R=G	
NGC 3286	UMa		H917-3 Galaxy E?	VF,PS,R,PSLBM
Feb 04 2005	31"	17mmT4	MF,MS,BSNUC,GMBM,SHISB CNTR,PAIR=3288,R=G	
NGC 3288	UMa		H918-3 Galaxy SABbc:	EF,CS,R,VGLBM
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,PAIR=3286,R=F	
NGC 3298	UMa		H767-3 Galaxy E/S0	VF,PS,IE
Feb 05 2005	31"	17mmT4	MB,MS,OVAL,BLNUC,SLT HISB CNTR,R=G	

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NGC 3310	UMa		H60-4	Galaxy SAB(r)bc pec	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 3343	Dra		H317-3	Galaxy E	PF,S,R,GBM
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,BSNUC,GMBM,R=G		
NGC 3348	UMa		H80-1	Galaxy E0	B,S,ILE,PSBM,*11F21S
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,DBL NUC,F* NEXT TO *NUC,R,BM		
NGC 3353	UMa		H842-3	Galaxy Sb? pec	F,CS,R,PGBM,*S90"
Apr 12 2023	36"	17mmT4	VF,VS,PATCH,AV COMES AND GOES THEN HOLDS,AGC 1185,R=P		
Mar 15 1985	12.5"	12mm	MF,PS,BNUC,R,GBM,F* CLOSE BY,LOC IN BARREN * FIELD		
NGC 3359	UMa		H52-5	Galaxy SB(rs)c	PB,L,E0,GLBM
Mar 15 1985	12.5"	16mm	OVAL,PATCH,UB,*NUC DET		
Mar 15 1985	12.5"	24mm	DIF,MF,PL,L DISFUSE PATCH IN BARREN AREA		
NGC 3364	UMa		H318-3	Galaxy SAB(rs)c	VF,L,R,VGBM,R,D*SF
Feb 05 2005	31"	17mmT4	PF,VL,OVAL,UB,NND,SHISB,PAIRS=PGC32218/MAC'S,R=G		
NGC 3392	UMa		H881-3	Galaxy E?	VF,S,PSBM,ST NR
Feb 05 2005	31"	17mmT4	PB,MS,R,BSNUC,MHISB CNTR,PAIR=3394,R=G		
NGC 3394	UMa		H872-2	Galaxy SA(rs)c	CF,S,LE,VGBM
Feb 05 2005	31"	17mmT4	MB,VL,OVAL,UB,NND,SHISB,PAIR=3392,R=G		
NGC 3398	UMa		H792-3	Galaxy SA:(s)b?	VF,S,E,ER
Apr 18 2023	36"	17mmT4	VF,VS,PATCH,VSNUC,PAIRS=IC644/PGC32587,R=P		
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,FLNUC,PAIRS=IC644/OTHERS,R=F		
NGC 3403	Dra		H335-2	Galaxy SAbc:	PF,L,IE,VGBM
Feb 23 2006	31"	17mmT4	PF,PL,EL,UB,NND,SHISB,D*S POINT TO GLXY,R=G		
Dec 07 2005	31"	17mmT4	MB,PL,EL,PATCH,UB,NND,SHISB,F* OFF TIP,R=G		
NGC 3406	UMa			Galaxy E	PB,R,PGBM
Feb 05 2005	31"	17mmT4	MF,MS,BLNUC,SHISB,2 HALVES,2 NUC,GBM,IRR,PAIRS=3410/MAC'S,R=G		
NGC 3407	UMa		H919-3	Galaxy S0-:	VF,VS,R,VS*NR
Feb 05 2005	31"	17mmT4	MF,PS,EL,FLNUC,BM,SHISB CNTR,R=F		
NGC 3408	UMa		H913-3	Galaxy Sc:	VF,CS,R,2PB*S
Feb 05 2005	31"	17mmT4	PF,ML,OVAL-R,SHISB,L PATCHY NUC,SLT BM,R=G		
NGC 3410	UMa			Galaxy S?	F,PS,DIF,2'SF3406
Feb 05 2005	31"	17mmT4	VF,MS,OVAL,UB,NND,PAIRS=3406/MAC'S,R=F		
NGC 3435	UMa		H887-2	Galaxy Sb	CF,PS,LE,VGBM
Feb 05 2005	31"	17mmT4	MF,MS,PATCH,FSNUC,R=F		

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NGC 3440	UMa		H914-3	Galaxy SBb? sp	VF,S,LE
Feb 05 2005	31"	17mmT4	MF,MS,EL,FLNUC,R=F		
NGC 3445	UMa		H267-1	Galaxy SAB(s)m	CB,PL,IR,VGLBM,*NF2'
Feb 05 2005	31"	17mmT4	PB,ML,OVAL,PATCH,UB,NND,MHISB,PAIR=PGC32784,R=G		
Mar 15 1985	12.5"	16mm	DIF,PF,MS,BNUC,MHISB,OVAL-R,F* CLOSE BY,UB,3458 IN SAME FOV		
NGC 3448	UMa		H233-1	Galaxy I0	B,PL,ME67,GBM
Apr 07 2008	31"	17mmT4	VF,VL,EL,BLNUC,HISB,GOOD DEF,DUST AREA DET,CNTR BULGE,BKN,R=E		
Mar 15 1985	12.5"	16mm	DIF,VF,MS,EDGE ON,UB,SLT EL,NND,BET A TRI OF VF*S		
NGC 3458	UMa		H268-1	Galaxy SAB0:	VB,VS,R,STELLAR
Mar 15 1985	12.5"	16mm	MF,PS,BNUC,R,BM,*NUC,3445 IN SAME FOV		
NGC 3470	UMa		H888-2	Galaxy SA(r)ab:	VF,S,R,VGBM
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,FLNUC,PAIR=PGC33043,R=F		
NGC 3471	UMa		H972-3	Galaxy Sa	VF,S,R,BM
Feb 04 2005	31"	17mmT4	MB,PL,EL,FLNUC,MHISB CNTR,PAIR=PGC33071,R=G		
NGC 3488	UMa		H269-1	Galaxy SB(s)c:	EF OR CB,VLE,PS,*13S
Apr 03 2005	31"	17mmT4	PB,ML,OVAL,FLNUC SUSP,SMWHT BM,R=G		
NGC 3499	UMa		H793-3	Galaxy I0?	VF,VS,STELLAR
Apr 03 2005	31"	17mmT4	MB,PS,R,BSNUC,MHISB CNTR,R=G		
NGC 3500	Dra		H968-3	Galaxy Sb	VF\$EF,DNEB,V NEAR
Feb 23 2006	31"	17mmT4	MF,MS,EL,FLNUC,SHISB,PAIRS=3465/3523,R=F		
Apr 03 2005	31"	17mmT4	VF,VS,PATCH,UB,NND,PAIR=3528,R=P		
Feb 05 2005	31"	17mmT4	MF,PS,EL,FSNUC,R=F		
NGC 3516	UMa		H336-2	Galaxy (R)SB(s)0^:	PB,VS,IR,PSMBM*
Mar 15 1985	12.5"	12mm	PF,PS,R,BM,F* CLOSE BY SVRL GLXY DIA		
NGC 3517	UMa		H884-2	Galaxy SAB:	EF,S,R,VGBM
Apr 03 2005	31"	17mmT4	MF,PS,R,BSNUC,COMP=PGC33526,R=F		
NGC 3523	Dra		H904-2	Galaxy Sbc	F,PL,LBM,
Feb 23 2006	31"	17mmT4	MB,ML,R,UB,NND,MHISB,PAIR=PGC33277,R=G		
Apr 03 2005	31"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,PAIR=PGC33277,R=F		
NGC 3530	UMa		H915-3	Galaxy S?	VF,S,R,PGBM
Apr 03 2005	31"	17mmT4	MF,PS,EL-EDGE ON,BSNUC,SUDDENDLY MBM,PAIR=MAC,R=F		
NGC 3543	UMa		H920-3	Galaxy S	EF,VS,E0,R
Apr 03 2005	31"	17mmT4	PF,PS,EDGE ON,UB,NND,CNTR BULGE,R=F		
NGC 3549	UMa		H220-1	Galaxy SA(s)c:	CB,CL,CE160
Mar 15 1985	12.5"	16mm	DIF,MF,PL,EL,PATCH,UB,NND		

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NGC 3556	UMa	M108	H46-5	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
Mar 08 2013	36"	17mmT4		MESSIER MARATHON 2013	
Mar 19 2004	12.5"	12mmT4		MESSIER MARATHON 2004	
Dec 26 2003	31"	17mmT4		VB,EL,EDGE ON,NND,MHISB,3*S IN GLXY,H2 RGN DET,DUST DET,PATCHY ARMS DET,E	
Mar 15 1985	12.5"	12mm		MB,PL,EDGE ON,F*N EDGE,B*CNTR,MHISB,KNTY STR SUSP,E!!!	
Mar 02 1984	10"	20mm		SAME	
Oct 22 1982	12.5"	16mm		DIF,MB,VL,F*N EDGE,EDGE ON,UB,LG,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 3562	Dra		H337-2	Galaxy E	PF,PS,LE,GBM,*70"NP
Apr 03 2005	31"	17mmT4		MB,PL,OVAL,BLNUC,MUCH BM,MHISB CNTR,PAIRS=PGC'S/MAC,R=G	
NGC 3589	UMa		H921-3	Galaxy Sd:	VF,L,E,VGBM,INTRILST
Apr 03 2005	31"	17mmT4		PF,VL,EL-EDGE ON,UB,NND,L EDGE ON PATCH BESIDE TRI OF B*S,R=G	
NGC 3594	UMa		H770-3	Galaxy SB0:	VF,VS,STELLAR
Apr 03 2005	31"	17mmT4		PF,ML,OVAL,FLNUC,SMWHT BM,PAIR=PGC34356,R=G	
NGC 3610	UMa		H270-1	Galaxy E5:	VB,PS,LE90,VSVMBMSN
Mar 15 1985	12.5"	12mm		PB,MS,BNUC,R,BM,SLT TAPERED 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,SBM,PAIR/3619	
Oct 22 1982	12.5"	16mm		MB,PS,BNUC,R,BSNUC,GBM,PAIR/3619	
NGC 3619	UMa		H244-1	Galaxy (R)SA(s)0+:	CB,CL,R,VGMBM
Mar 15 1985	12.5"	12mm		PF,MS,PATCHY,SNUC,FTR THAN 3613,PAIR/3613	
Oct 22 1982	12.5"	16mm		R,DIF,MF,PS,FUZZY,SBM	
NGC 3622	UMa		H879-2	Galaxy S?	PB,S,R,GBM
Apr 03 2005	31"	17mmT4		MF,MS,OVAL,UB,NND,SHISB,R=G	
NGC 3625	UMa		H885-2	Galaxy SAB(s)b:	F,S,LE135
Apr 03 2005	31"	17mmT4		MB,PL,OVAL,UB,SHISB,PAIRS=PGC/MAC,R=G	
NGC 3631	UMa		H226-1	Galaxy SA(s)c	PB,L,R,SVMBMRN
Mar 15 1985	12.5"	16mm		MB,ML,FNUC,FACE ON,SBM,SNUC,SPR STR DET,2 *S OUTER ARMS	
Oct 22 1982	12.5"	16mm		DIF,VF,MS,PATCHY,OVAL,*NUC	
NGC 3642	UMa		H245-1	Galaxy SA(r)bc:	PB,PL,R,VGBM
Mar 15 1985	12.5"	16mm		DIF,PF,PS,OVAL-PATCHY,SBM	
NGC 3654	UMa		H880-2	Galaxy S?	F,S,LE15
Apr 03 2005	31"	17mmT4		MB,PS,OVAL,SHISB,SMWHT BM,R=G	

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NGC 3656	UMa		H782-2	Galaxy (R')I0: pec	PB,S,R,VGBM,*12P
Apr 03 2005	31"	17mmT4	PB,ML,R,UB,NND,MHISB,CLOSE COMP=PGC34985,PAIRS=PGC'S/MAC,R=G		
NGC 3657	UMa		H768-3	Galaxy SAB(rs)c pec	CF,VS,R,STELLAR
Apr 03 2005	31"	17mmT4	MF,PS,R,BSNUC,MHISB CNTR,GMBM,R=G		
NGC 3668	UMa		H845-2	Galaxy Sbc	F,PS,IR,GBM,*9NP
Apr 03 2005	31"	17mmT4	PB,PL,OVAL-R,BSNUC,COMP NOT DET,VF* IN EDGE,GBM,HISB CNTR,FARMSSUSP,R=G		
NGC 3669	UMa		H829-2	Galaxy SBcd: sp	VF,PL,PME135,ER
Apr 03 2005	31"	17mmT4	MF,PL,EDGE ON,UB,NND,NO NUC,NO CNTR BULGE,R=E		
NGC 3671	UMa		H922-3	Galaxy C	VF,VS,2VS*INV
Dec 07 2005	31"	17mmT4	PF,PS,OVAL,UB,NND,VF* IN EDGE OF GLXY,R=F		
NGC 3674	UMa		H886-2	Galaxy S0 sp	PF,IF
Apr 03 2005	31"	17mmT4	MB,MS,EL-EDGE ON,BSNUC,GMBM,MHISB CNTR,PAIR=MAC,R=G		
Mar 15 1985	12.5"	16mm	COMP TO SE = 3683,NO DESC GIVEN		
NGC 3682	Dra		H262-1	Galaxy SA(s)0/a:?	CB,S,IR,SPMBMN
Apr 03 2005	31"	17mmT4	PB,MS,EL,BLNUC,HISB CNTR,R=G		
NGC 3683	UMa		H246-1	Galaxy SB(s)c?	CB,PL,E
Mar 15 1985	12.5"	16mm	DIF,PF,PS,EL,UB,NND,NO *S,COMP TO NW = 3674		
NGC 3683A	UMa			Galaxy SB(rs)c	
Apr 03 2005	31"	17mmT4	PB,PL,OVAL,UB,NND,B* OFF EDGE,SHISB,R=G		
NGC 3690	UMa		H247-1	Galaxy IBm pec	PB,PS,VLE80,PGBM
Apr 07 2008	31"	17mmT4	VB,PL,OVAL,UB,NND,HISB,PAIRS-IC694/PGC35345,R=G		
Apr 03 2005	31"	17mmT4	VB,ML,OVAL-R,UB,NND,HISB,INTRACT=IC694,PAIRS=PGC/MAC,R=G		
Mar 15 1985	12.5"	16mm	PF,PS,SLT EL2 NUC DET,INTRACT GLXY = IC 694,MHISB!!		
NGC 3718	UMa		H221-1	Galaxy SB(s)a pec	PB,VL,R,VGLBM
Feb 23 2006	31"	17mmT4	VB,EF,BLNUC,F* CLOSE TO NUC IN GLXY,PATCHY,ARMS SUSP,H2 RGN,PAIR=MAC,R=E		
Mar 15 1985	12.5"	16mm	PF,VL,SPR ARMS DET,B BAR,VR,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 3725	UMa		H836-2	Galaxy SBc	CF,S,R,GVLBM,R
Apr 04 2005	31"	17mmT4	MB,ML,OVAL,BSNUC,SLT HISB CNTR,PAIR=PGC35626,R=G		
NGC 3729	UMa		H222-1	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
Feb 23 2006	31"	17mmT4	VB,VL,OVAL,BSNUC,HISB,ARMS,PATCHY AREAS,B BAR LIKE NUC W/BULGE,COMP=MAC,* ON ED		
Mar 15 1985	12.5"	16mm	MB,ML,BTR THAN 3718,MHISB,B* ON S EDGE,UB,PAIR/3718		
Oct 22 1982	12.5"	24mm	VF,ML,OVAL,NND,MHISB,F* IN S PART,PAIR/3718		
NGC 3733	UMa		H771-3	Galaxy SAB(s)cd:	EF,S,IR,*6MSF
Apr 04 2005	31"	17mmT4	PF,VL,OVAL,PATCH,UB,NND,B* IN FOV CLOSE BY,SVRL OTHERS PRESENT,R=F		
NGC 3735	Dra		H287-1	Galaxy SAc: sp	PB,L,ME130,MBM
Apr 04 2005	31"	17mmT4	PB,VL,EDGE ON,BLNUC,DUST LANE,CNTR BULGE,GMBM,HISB CNTR,PAIR=MAC,R=E		

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NGC 3736	Dra		Galaxy Sb	VF,VS,R
Apr 04 2005	31"	17mmT4	MF,PS,OVAL,FSNUC,VF* ON EDGE,R=F	
NGC 3737	UMa		H772-3 Galaxy SB0	VF,STELLAR
Apr 04 2005	31"	17mmT4	PB,MS,EL,BSNUC,PAIRS=PGC35811/MAC'S,R=G	
NGC 3738	UMa		H783-2 Galaxy Im	PB,PL,BM
Mar 15 1985	12.5"	16mm	PF,PL,OVAL,MHISB,UB,PAIR/3756	
NGC 3740	UMa		H847-3 Galaxy S	VF,VS,R,VGBM
Apr 04 2005	31"	17mmT4	MF,ML,OVAL,UB,NND,SHISB,R=G	
NGC 3752	Dra		H905-2 Galaxy Sab	PB,PL
Mar 05 2021	36"	17mmT4	MF,ML,EL,PATCH,UC,NND,R=F	
Apr 03 2005	31"	17mmT4	MB,ML,EL-EDGE ON,PATCH,UB,NND,R=G	
NGC 3756	UMa		H784-2 Galaxy SAB(rs)bc	PF,L,LE
Mar 15 1985	12.5"	16mm	PF,PL,OVAL,MHISB,UB,PAIR/3738	
NGC 3757	UMa		H843-3 Galaxy S0?	VF,R,STELLAR,VS*1DSF
Apr 04 2005	31"	17mmT4	PB,MS,OVAL,BLNUC,HISB CNTR,R=G	
NGC 3759	UMa		Galaxy SAB0^:	F,S,IR,*11NR
Apr 04 2005	31"	17mmT4	MB,ML,EL,BLNUC,PAIR=IC2943,R=G	
NGC 3759A	UMa		Galaxy SABc pec	
Apr 04 2005	31"	17mmT4	MF,ML,OVAL,FSNUC,SHISB,PAIR=MAC,R=F	
NGC 3762	UMa		H837-2 Galaxy Sa	F,VLE,GBM
Apr 04 2005	31"	17mmT4	PB,MS,EDGE ON,BLNUC,CNTR BULGE,HISB CNTR,SBM,R=G	
NGC 3770	UMa		H838-2 Galaxy SBa	PF,S,R,GBM,R
Apr 04 2005	31"	17mmT4	MB,PS,R,BSNUC,SBM,MHISB CNTR,R=G	
NGC 3780	UMa		H227-1 Galaxy SA(s)c:	PF,L,VLE,VGBM,R
Apr 12 2023	36"	17mmT4	MB,PL,OVAL-R,LFNUC,MHISB,SPR STR SUSP,VF* S EDGE,R=FG	
Mar 15 1985	12.5"	16mm	DIF,MF,PL,F* E TIP,NND,UB,OVAL,PATCH	
NGC 3795	UMa		H844-3 Galaxy S	VF,S,ME
Apr 04 2005	31"	17mmT4	MF,MS,EDGE ON,UB,NND,CIGAR SHAPE,R=G	
NGC 3796	UMa		H839-2 Galaxy S?	F,CS,R,MBM
Apr 04 2005	31"	17mmT4	MB,MS,EL-OVAL,BLNUC,HISB CNTR,R=G	
NGC 3804	UMa		H830-2 Galaxy SAB(s)d	PB,E
Apr 04 2005	31"	17mmT4	MF,PL,OVAL,UB,NND,SHISB,* ON EDGE,PATCHY AREAS,R=F	
NGC 3809	UMa		Galaxy S0	PB,S,R,GLBM
Dec 07 2005	31"	17mmT4	PB,PS,R,BLNUC,HISB CNTR,BM,R=G	
NGC 3824	UMa		H774-3 Galaxy SA(s)a? sp	VF,CS,PME
Dec 07 2005	31"	17mmT4	PB,ML,EL,BLNUC,HISB CNTR,BM,R=G	

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NGC 3829	UMa		H775-3	Galaxy SB(s)b:	VF,VS
Dec 07 2005	31"	17mmT4	PF,MS,R,PATCH,UB,NND,R=P		
NGC 3835	UMa			Galaxy Sab: sp	PB,E,GBM,**8SF 5'
Dec 07 2005	31"	17mmT4	PB,ML,EDGE ON,BSNUC,CNTR BULGE,MHISB CNTR,R=G		
NGC 3838	UMa		H831-2	Galaxy SA0/a?	PB,CS,E,PSBM*12
Dec 07 2005	31"	17mmT4	VB,ML,EL,BLNUC,HISB CNTR,BM,R=G		
NGC 3846	UMa			Galaxy SAc:	F,PL,R,VGBM
Feb 23 2006	31"	17mmT4	MF,MS,OVAL,PATCH,SMWHT BM,SHISB,PAIRS=MAC'S,R=G		
NGC 3846A	UMa			Galaxy SB(s)m:	
Feb 23 2006	31"	17mmT4	PB,PL,EL-OVAL,PATCH,UB,NND,MHISB,PAIR=PGC36463,R=G		
NGC 3850	UMa		H776-3	Galaxy SB(s)c:	EF,PL,LE
Feb 23 2006	31"	17mmT4	MB,VL,OVAL,PATCH,UB,NND,SHISB,PAIR=MAC,R=G		
NGC 3870	UMa		H833-3	Galaxy S0?	CF,CS,R,PSBM
Feb 23 2006	31"	17mmT4	MF,MS,OVAL,BSNUC,HISB CNTR,GMBM,R=G		
NGC 3879	Dra		H881-2	Galaxy Sdm:	F,PL,ME105
Feb 23 2006	31"	17mmT4	MF,MS,EDGE ON,UB,NND,SHISB,VF* OFF SIDE OF NUC,R=G		
NGC 3888	UMa		H785-2	Galaxy SAB(rs)c	PB,S,LE,PGBM
Feb 23 2006	31"	17mmT4	VF,PL,OVAL,BSNUC,HISB,PAIRS=3889/PGC/MAC,R=G		
Mar 15 1985	12.5"	16mm	MB,MS,OVAL,UB,NND,MHISB,PAIR/3898		
NGC 3889	UMa			Galaxy S0	VF,VS,5'S OF 3888
Feb 23 2006	31"	17mmT4	PF,PS,EL,BLNUC,PAIRS=3888/PGC/MAC,R=F		
NGC 3890	Dra		H940-3	Galaxy S?	VF,S,R,BM
Feb 23 2006	31"	17mmT4	PF,MS,R,BLNUC,MHISB,SUDLY MBM,LNUC AREA,R=G		
NGC 3894	UMa		H248-1	Galaxy E4-5	B,PL,IR,PGBM,P OF 2
Mar 15 1985	12.5"	12mm	PF,MS,OVAL,SBM,PAIR/3895		
NGC 3895	UMa		H832-2	Galaxy SB(rs)a:	PF,PL,VLE,GBM,F OF 2
Mar 15 1985	12.5"	12mm	PF,PS,OVAL,PATCHY,*NUC SUSP,PAIR/3894		
NGC 3898	UMa		H228-1	Galaxy SA(s)ab	B,PL,LE,SVMBM
Mar 15 1985	12.5"	12mm	PB,ML,BNUC,HISB,BM,R-OVAL,PAIR/3888		
Feb 12 1983	12.5"	16mm	MB,PL,EL,BNUC,VMBM		
NGC 3901	Cam		H970-3	Galaxy Scd:	PF,PL,RESOLVABLE
Feb 04 2005	31"	17mmT4	PF,ML,OVAL,PATCH,UB,NND,F* IN EDGE,R=F		
NGC 3913	UMa		H786-2	Galaxy (R')SA(rs)d:	F,E
Feb 23 2006	31"	17mmT4	MF,ML,OVAL,FLNUC,PATCHY,R=F		
NGC 3916	UMa		H787-2	Galaxy SAB: sp	EF,R,GBM
Feb 23 2006	31"	17mmT4	PF,MS,EL TO EDGE ON,PATCH,UB,NND,SHISB,PAIRS=3921/PGC37013,R=F		

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NGC 3917	UMa		H824-2	Galaxy SAcd:	F,L,VME,VGBM
Jan 29 2014	36"	17mmT4	MB,VL,EL,UB,NND,SHISB,CIGAR SHAPE,PAIR=PGC36973,R=GE		
Mar 04 2006	31"	17mmT4	PB,VL,EDGE ON,UB,NND,CNTR BULGE,2*S OFF ONE SIDE,R=G		
Mar 15 1985	12.5"	16mm	DIF,MP,MS,EDGE ON,2VF*S S SIDE,UB,NND		
NGC 3921	UMa		H788-2	Galaxy (R')SA(s)0/a p	PF,S,R,PSPMBM
Feb 23 2006	31"	17mmT4	PB,PL,OVVAL,BLNUC,MHISB,SBM,HISB CNTR,PAIRS=3916,PGC37013,R=G		
NGC 3922	UMa		H716-3	Galaxy S0/a	VF,VS
Mar 04 2006	31"	17mmT4	PB,PL,EL,BLNUC,HISB,GMBM,* OFF NUC,R=G		
NGC 3924	UMa		H825-2	Galaxy Sm:	PB,S,IF,BM
Mar 04 2006	31"	17mmT4	DIF,VF,PS,PTACH,UB,NND,R=P		
NGC 3931	UMa		H769-3	Galaxy SA0-:	EF,S
Mar 04 2006	31"	17mmT4	PB,PL,R,FLNUC,SBM,MHISB CNTR,PAIR=MAC,R=G		
NGC 3945	UMa		H251-1	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,3F*S SUR OBJ,R,VMBM,HISB CNTR		
Feb 12 1983	12.5"	16mm	MB,PS,BNUC,2F*S N,1*W,HISB,R,SBM		
NGC 3953	UMa		H45-5	Galaxy SB(r)bc	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,FNUC,F*W EDGE,OVVAL,SOFT NUC,VMBM,FACE ON,HALO		
NGC 3958	UMa		H833-2	Galaxy SB(s)a	PF,PS,PME,VGBM
Mar 15 1985	12.5"	16mm	CLOSE PAIR/3963		
NGC 3961	Dra		H905-3	Galaxy (R)SB(r)a:	EF,VS
Feb 23 2006	31"	17mmT4	MB,MS,R,BNUC,MUCH BM,MHISB CNTR,R=G		
NGC 3963	UMa		H67-4	Galaxy SAB(rs)bc	PF,CL,R,VG,SBM
Mar 15 1985	12.5"	16mm	DIF,PF,PS,OVVAL,UB,NND,COMP TO SW = 3958		
NGC 3972	UMa		H789-2	Galaxy SA(s)bc	PB,E
Feb 12 1983	12.5"	16mm	VDIF,VF,ML,EDGE ON,UB,TAPERED ENDS,NND,PAIR/3977		
NGC 3975	UMa			Galaxy SAB?	VF,VS,3978F17S
Mar 04 2006	31"	17mmT4	MF,MS,OVVAL,PATCH,UB,NND,PAIRS=3978/PGC'S,R=F		
NGC 3977	UMa		H790-2	Galaxy Sab	F,S
Mar 02 1984	10"	20mm	MB,VL,FACE ON,SNUC,F* SUSP CLOSE TO NUC,SBM,SOME SPR STR SUSP		
Feb 12 1983	12.5"	16mm	MB,ML,BNUC,F*N SIDE,OVVAL,F*E EDGE,KNTS SUSP,ARMS SHOW GOOD,PAIR/3972		
NGC 3978	UMa		H840-2	Galaxy SABbc:	CF,S,LE,BM,*8P6'
Mar 04 2006	31"	17mmT4	PB,PL,R,FSNUC,MHISB,SBM,PAIRS=3975/PGC'S,R=G		
NGC 3982	UMa		H62-4	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
Feb 12 1983	12.5"	16mm	MB,MS,DNUC,R,SBM,SAME 24MM FIELD WITH 3998		
NGC 3990	UMa		H791-2	Galaxy S0-: sp	PF,S,LE,PSLBM
Mar 15 1985	12.5"	12mm	CLOSE COMP TO 3998		

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NGC 3992	UMa	M109	H61-4	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013		
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Dec 26 2003	31"	17mmT4	EB,EL,EL,BVLNUC,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 SA(r)0⁺?	CB,PS,R,VG,SMBM
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,R,COMP TO W = 3990		
Feb 12 1983	12.5"	16mm	MB,MS,BNUC,R,VMBM,F COMP (3990),FORMS TRI WITH 3982		
NGC 4026	UMa		H223-1	Galaxy S0 sp	VB,CL,ME176,VSVMBMBN
Feb 12 1983	12.5"	16mm	MB,PS,EDGE ON,DUST LANE SUSP,VBM,CNTR BULGE		
NGC 4034	Dra		H903-3	Galaxy Scd:	EF,S,IF,GVLBM
Mar 06 2003	12.5"	9mmT6	SUSP ONLY,LOC GOOD,R=P		
NGC 4036	UMa		H253-1	Galaxy S0-	VB,VL,E
Mar 06 2003	12.5"	9mmT6	VB,VL,BNUC,VBM,BLNUC,HISB CNTR,TAPERED ENDS,R=E		
Feb 12 1983	12.5"	16mm	MB,PL,EDGE ON,BNUC,CNTR BULGE,DUST LANE SUSP,BM,PAIR/4041		
NGC 4041	UMa		H252-1	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN
Mar 06 2003	12.5"	9mmT6	VB,PL,R,HISB,VLNUC,VF* SUSP IN GLXY,S AREA (RING),FARMS,R=E		
Feb 12 1983	12.5"	16mm	MF,MS,DNUC,R,SBM,PAIR/4036		
NGC 4054	UMa		H794-3	Galaxy S	EF,S
Mar 06 2003	12.5"	9mmT6	EDIF,EF,VS,PATCH,AV,COMES AND GOES THEN HOLDS,R=P		
NGC 4068	UMa		H781-2	Galaxy IAm	PF,S,STELLAR
Mar 06 2003	12.5"	9mmT6	DIF,MF,VL,OVAL-R,NND,B* IN CNTR,F* OFF ONE SIDE,FACE ON,SPR STR SUSP,R=G		
NGC 4081	UMa			Galaxy Sa?	F,S,ME,D*NR
Mar 06 2003	12.5"	9mmT6	MF,MS,EL,UB,NND,R=F		
NGC 4085	UMa		H224-1	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
Mar 06 2003	12.5"	9mmT6	MB,VL,EDGE ON,UB,NND,PAIR=4088,R=G		
Feb 12 1983	12.5"	24mm	DIF,PF,ML,EDGE ON,UB,NND,PAIR/4088		
NGC 4088	UMa		H206-1	Galaxy SAB(rs)bc	B,CL,E55,LBM
Mar 06 2003	12.5"	9mmT6	MB,EL-OVAL,PATCH,UB,NND,SHISB,PAIR=4085,R=E		
Feb 12 1983	12.5"	24mm	DIF,PB,PL,EL,HISB,NND,UB,W SIDE WIDER THAN E,PAIR/4085		
NGC 4102	UMa		H225-1	Galaxy SAB(s)b?	B,PS,R,BMBN,*12SPVNR
Mar 06 2003	12.5"	9mmT6	PB,ML,OVAL,BNUC,HISB,L 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 4108	Dra			Galaxy (R')SAc:	B,S,R,GBM
Mar 06 2003	12.5"	9mmT6	MB,PL,R,FNUC,SHISB,GSBM,PAIR/4108B/4108A,R=G		
NGC 4108A	Dra			Galaxy SBbc:	
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,PAIR/4108B/4108,R=P		

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NGC 4108B	Dra		Galaxy SAB(s)d pec?	
Mar 06 2003	12.5"	9mmT6	SUSP ONLY,LOC GOOD,PAIR/4108/4108A,R=P	
NGC 4120	Dra		H904-3 Galaxy SA(rs)cd:	EF,VS,E
Mar 06 2003	12.5"	9mmT6	DIF,PF,PS,OVAL,PATCH,*NUC,R=F	
NGC 4121	Dra		Galaxy E	F,VS,LE,R
Mar 06 2003	12.5"	9mmT6	MF,VS,PATCH,*NUC,SNUC,PAIR/4125,R=F	
NGC 4125	Dra		Galaxy E6 pec	PB,PL,CE,MBM
Mar 06 2003	12.5"	9mmT6	VB,PL,BNUC,HISB,GMBM,PAIR/4121,R=E	
NGC 4127	Cam		H279-1 Galaxy SAc?	F,PL,VLE,GLBM
Mar 06 2003	12.5"	9mmT6	DIF,PF,MS,R,PATCH,UB,NND,R=F	
NGC 4128	Dra		H263-1 Galaxy SA0: sp	CB,LE,BM
Mar 06 2003	12.5"	9mmT6	MB,MS,EL,FNUC,BSNUC,MHISB CNTR,R=F	
NGC 4133	Dra		H278-1 Galaxy SABb:	PB,CL,R,GMBM
Mar 06 2003	12.5"	9mmT6	DIF,R,PATCH,UB,R=F	
NGC 4141	UMa		H795-3 Galaxy SBcd:	VF,PS,LE,GBM,R
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,R=P	
NGC 4142	UMa		H814-3 Galaxy SB(s)d:	VF,S,IF,VGLBM,ER
Mar 06 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,AV,R=P	
NGC 4149	UMa		H802-2 Galaxy S?	F,S,E
Mar 06 2003	12.5"	9mmT6	MF,MS,EL,UB,NND,R=F	
NGC 4157	UMa		H208-1 Galaxy SAB(s)b? sp	PF,CL,VME60,(DOUBLE)
Apr 23 2003	12.5"	9mmT6	VF,EL,EDGE ON,BNUC,MHISB,DUST LANE SUSP,RES 7331,CNTR BULGE,R=E	
NGC 4159	Dra		H941-3 Galaxy S?	EF,PS,R,TRI2*
Mar 06 2003	12.5"	9mmT6	EDIF,EF,ES,AV,SUSP ONLY,LOC GOOD,R=P	
NGC 4161	UMa		H803-2 Galaxy S?	F,S,R
Apr 23 2003	12.5"	9mmT6	PB,ML,EL,PATCH,SHISB,B* SUR OBJ,GBM,R=G	
NGC 4172	UMa		H792-2 Galaxy S?	F,S,LE,GBM
Apr 23 2003	12.5"	9mmT6	DIF,PF,ML,OVAL,PATCH,FNUC,R=F	
NGC 4181	UMa		H777-3 Galaxy E	EF,S,STELLAR
Apr 23 2003	12.5"	9mmT6	PF,MS,PATCH,NND,CLOSE TO *,R=F	
NGC 4187	CVn		H813-2 Galaxy E	PB,S,LE
Apr 23 2003	12.5"	9mmT6	PF,PS,OVAL-R,PATCH,FNUC,1 OF 4 COMP,R=F	
NGC 4187B	CVn		Galaxy	
Apr 23 2003	12.5"	9mmT6	EEDIF,EF,ES,PATCH,AV,SUSP,2 OF 4 COMP,R=P	
NGC 4187C	CVn		Galaxy	
Apr 23 2003	12.5"	9mmT6	EDIF,VF,VS,PATCH,UB,AV,SUSP,3 OF 4 COMP,R=P	

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NGC 4194	UMa		H867-2	Galaxy IBm pec	PB,VS,VSBM*12
Apr 23 2003	12.5"	9mmT6	PB,ML,OVAL-R,BNUC,MHISB,GMBM,R=G		
NGC 4195	UMa		H796-3	Galaxy SB(s)cd	EF
Apr 23 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,SUSP,R=P		
NGC 4198	UMa		H793-2	Galaxy S0/a	PF,PS,LE,GBM
Apr 23 2003	12.5"	9mmT6	MB,MS,OVAL-R,PATCH,FNUC,BET 2*S,R=F		
NGC 4199	UMa		H797-3	Galaxy Sb	VF,S
Apr 23 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,R=P		
NGC 4205	Dra			Galaxy S?	PB,PS,R,*12F,LN
Apr 23 2003	12.5"	9mmT6	PB,ML,PATCH,BNUC,MHISB,F* IN GLXY,GMBM,R=G		
NGC 4210	Dra		H850-3	Galaxy SB(r)b	PF,PS,R,VGBM
Apr 23 2003	12.5"	9mmT6	MF,PL,OVAL-R,PATCH,MHISB,PAIR=4221/PGC39058,R=G		
NGC 4221	Dra			Galaxy (R)SB(r)0+	PB,S,R,PSBM
Apr 23 2003	12.5"	9mmT6	PB,PL,R,BNUC,MHISB,LNUC AREA,HISB CNTR,PAIR=4210/PGC39058,R=G		
NGC 4236	Dra		H51-5	Galaxy SB(s)dm	VF,EL,ME160,VGBM
Apr 23 2003	12.5"	9mmT6	DIF,MF,EL-PATCH,LG,PATCHES DET,H2 RGN SUSP,R=G		
NGC 4238	Dra		H851-3	Galaxy Sd	VF,PS,IR,VGLBM
Apr 23 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,UB,NND,R=P		
NGC 4250	Dra		H264-1	Galaxy SAB(r)0+	PB,S,R,PGBM
Feb 04 2005	31"	17mmT4	PB,ML,R,BLNUC,HISB CNTR,GMBM,R=G		
NGC 4256	Dra		H846-2	Galaxy SA(s)b: sp	PB,L,CE38,BMBN
Feb 04 2005	31"	17mmT4	PB,ML,EDGE ON,BSNUC,CNTR BULGE,HISB CNTR,BM,DUST SUSP,R=E		
NGC 4271	UMa		H804-2	Galaxy S0-:	PB,PL,IF
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,BLNUC,F* OFF ONE SIDE,ANOTHER OFF END,MHISB MID,PAIR=MAC,R=G		
NGC 4284	UMa		H798-3	Galaxy Sbc	CF,LE,P OF 2
Feb 04 2005	31"	17mmT4	MB,PS,EL,VFSNUC,* OFF ONE EDGE,R=F,PAIR=4290,R=F		
NGC 4290	UMa		H805-2	Galaxy SB(rs)ab:	PB,L,R,GMBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,BSNUC,SHISB,HISB CNTR,BM,PAIR=4284,R=G		
NGC 4291	Dra		H275-1	Galaxy E	PB,VS,R,LBM,3*F
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,BSNUC,MHISB,2*S 90 DEG ON EDGE,PAIRS=4319/PGC39763/MAC,R=G		
NGC 4319	Dra		H276-1	Galaxy SB(r)ab	PB,PS,VLE,SBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,FSNUC,SHISB,* OFF EDGE,GMBM,PAIRS=4291/PGC39763/MAC,R=G		
NGC 4331	Dra		H942-3	Galaxy Im?	EF,E0
Feb 04 2005	31"	17mmT4	PF,MS,EDGE ON,UB,NND,F* IN TIP,R=F		
NGC 4332	Dra		H847-2	Galaxy SB(s)a	PF,S,VLE,VGBM
Feb 04 2005	31"	17mmT4	MB,PL,EL-EDGE ON,BLNUC,ALM EDGE ON,MHISB CNTR,BM,R=G		

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NGC 4335	UMa		H806-2	Galaxy E	PB,S,E,GBM
Feb 04 2005	31"	17mmT4	MB,PL,OVAL,BLNUC,HISB CNTR,GMBM,R=G		
NGC 4358	UMa		H799-3	Galaxy S0	CF,CS,LE
Feb 04 2005	31"	17mmT4	VF,ES,R,* NUC OR VF* IN GLXY,INTRACT=4364,PAIRS=4362/MAC,R=P		
NGC 4362	UMa		H800-3	Galaxy S?	VF,CS,R,R
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,FSNUC,GRADUALLY BM,PAIRS=4364/4358,R=F		
NGC 4363	Dra		H938-3	Galaxy SAB:	EF,PL,IF
Feb 04 2005	31"	17mmT4	PF,ML,OVAL,PATCH,UB,NND,F* OFF ONE EDGE,R=F		
NGC 4364	UMa		H801-3	Galaxy S0	CF,CS,R
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,FLNUC,SLT HISB CNTR,INTRACT=4358,PAIR=4362,R=G		
NGC 4384	UMa		H879-3	Galaxy Sa	CF,S,IR
Feb 04 2005	31"	17mmT4	MB,MS,OVAL,LNUC,SHISB,GRADUALLY BM,R=G		
NGC 4386	Dra		H277-1	Galaxy SAB0^:	PB,CL,LE,PSMBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,BLNUC,MHISB,BM,R=G		
NGC 4391	Dra		H852-3	Galaxy SA0-:	CF,S,R,SBM,***SP
Feb 04 2005	31"	17mmT4	MB,PS,OVAL,BSNUC,MHISB,R=G		
NGC 4441	Dra		H848-2	Galaxy SAB0+ pec	PB,S,IR,BM
Feb 04 2005	31"	17mmT4	MB,MS,OVAL,FLNUC,SHISB,R=G		
NGC 4481	Dra			Galaxy	PF,VS,R,*13ATT
Feb 04 2005	31"	17mmT4	MF,PS,EDGE ON,UB,NND,SHISB,CNTR BULGE,R=G		
NGC 4500	UMa		H234-1	Galaxy SB(s)a	B,CS,E,PGBM,*9F50"
Feb 04 2005	31"	17mmT4	PB,MS,EL,BSNUC,HISB CNTR,BM,TAPERED ENDS,R=G		
NGC 4510	Dra			Galaxy E	CL,VS,ST F,MC
Feb 04 2005	31"	17mmT4	MB,VS,OVAL,BSNUC,R=G		
NGC 4511	UMa		H834-3	Galaxy Sbc	PF,VS,IR,VGBM
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,UB,NND,PATCHY,R=F		
NGC 4512	Dra			Galaxy SB(s)dm	PB,S,R,PSBM
Feb 04 2005	31"	17mmT4	VDIF,EF,PL,PATCH,UB,NND,PAIR=4521,R=P		
NGC 4513	Dra			Galaxy (R)SA0^	F,R,(VS CL)
Feb 04 2005	31"	17mmT4	MF,PS,OVAL,FSNUC,PAIRS=PGC'S,R=F		
NGC 4521	Dra		H849-2	Galaxy S0/a	PB,S,PME,PGBM,*P12S
Feb 04 2005	31"	17mmT4	PB,ML,EDGE ON,BLNUC,HISB,CNTR BULGE,HISB CNTR,GMBM,PAIR=4512,R=G		
NGC 4537	CVn			Galaxy S	EEF,S,R,NEARLYBET2ST
Mar 04 2006	31"	17mmT4	MF,PS,OVAL,PATCH,FSNUC,PAIR=4542,R=F		
NGC 4542	CVn			Galaxy S	EF,PL,R
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,BLNUC,MHISB CNTR,PAIR=4537,R=G		

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NGC 4545	Dra		H850-2	Galaxy SB(s)cd:	F,L,IR,VGBM,S*NF
Feb 23 2006	31"	17mmT4	VF,VL,OVAL-R,UB,NND,*	OUTER EDGE,PATCHY AREAS DET,HISB,R=E	
NGC 4547	UMa		H802-3	Galaxy E/S0	VF,PS,E,VGBM,*9F,PO2
Mar 26 2006	31"	17mmT4	PF,MS,R,BSNUC,V	CLOSE COMP=PGC41897,OTHER PAIRS,R=F	
NGC 4549	UMa		H807-3	Galaxy	EF,PS,E,F OF 2
Mar 26 2006	31"	17mmT4	VF,PS,EL,PATCH,UB,NND,	OTHER PAIRS,R=P	
NGC 4566	UMa		H880-3	Galaxy S	PF,S,IR,GBM
Mar 26 2006	31"	17mmT4	MB,MS,OVAL-R,BSNUC,F	HALO SUR NUC,SBM,MHISB CNTR,R=G	
NGC 4572	Dra		H939-3	Galaxy S	EF,S
Feb 23 2006	31"	17mmT4	PF,MS,EDGE ON,PATCH,UB,NND,	TAPERED ENDS,CNTR BULGE,PAIR=MAC,R=F	
NGC 4589	Dra		H273-1	Galaxy E2	CB,L,LE,PGMBM
Feb 23 2006	31"	17mmT4	EB,VL,OVAL,BLNUC,HISB,SVRL	*S SUR NUC ON EDGE,SBM,R=E	
NGC 4605	UMa		H254-1	Galaxy SB(s)c pec	B,L,VME118,GLBM
Mar 26 2006	31"	17mmT4	EB,VL,EL,UB,HISB	PATCHES DET,* OFF ONE SIDE,CNTR BULGE,R=E	
NGC 4617	CVn		H744-2	Galaxy Sb	PF,S,IR,ER
Mar 04 2006	31"	17mmT4	MB,MS,EDGE ON,UB,NND,MHISB,	CIGAR SHAPE,* OFF NUC,R=G	
NGC 4644	UMa		H794-2	Galaxy SBb:	VF,S,R,GBM
Mar 26 2006	31"	17mmT4	MF,MS,EL,FLNUC,SHISB	CNTR,CLOSE COMP=PGC42725,R=F	
NGC 4646	UMa		H910-2	Galaxy S0?	F,S,4VS*SP
Mar 26 2006	31"	17mmT4	MB,MS,OVAL,BLNUC,*	OFF EDGE,GMBM,HISB CNTR,PAIR=MAC,R=G	
NGC 4648	Dra		H274-1	Galaxy E3	PB,CS,R,GBM,**P
Feb 23 2006	31"	17mmT4	PB,PL,R,BLNUC,HISB	CNTR,GRADUALLY MBM,R=G	
NGC 4652	UMa			Galaxy Sb	PF,PL,GBM,2B*6'NP
Mar 26 2006	31"	17mmT4	PF,PS,EL,FLNUC,VF*	IN EDGE,R=F	
NGC 4669	UMa			Galaxy S	F,E,(RESOLVABLE)
Mar 26 2006	31"	17mmT4	MF,MS,EL,UB,NND,SHISB,	CIGAR SHAPE,SHISB,R=F	
NGC 4675	UMa		H778-3	Galaxy SBb:	CF,S,LE
Mar 26 2006	31"	17mmT4	MF,MS,EL,UB,NND,SHISB,	PAIR=PGC43028,R=F	
NGC 4686	UMa		H795-2	Galaxy Sa	PF,VS,VME,VSMBM
Mar 26 2006	31"	17mmT4	MB,ML,EL,BLNUC,F	HALO,ARMS,HISB CNTR,GMBM,BM,R=G	
NGC 4693	Dra		H906-3	Galaxy Sd	VF,PLE
Feb 23 2006	31"	17mmT4	MF,ML,EDGE ON,UB,NND,	CIGAR SHAPE,R=G	
NGC 4695	UMa		H796-2	Galaxy S	EF,PS,VLE,MBMN
Mar 26 2006	31"	17mmT4	MF,MS,EL,PATCH,UB,NND,	VF* IN TIP,CLOSE COMP NOT DET,R=F	
NGC 4707	CVn		H815-3	Galaxy Sm:	S,STELLAR
Mar 04 2006	31"	17mmT4	DIF,VF,ML,OVAL-R,VBSNUC,	BM,*NUC,F PATCH SUR NUC,R=F	

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NGC 4732	UMa		H814-2	Galaxy E	F,S,VSMBM
Mar 26 2006	31"	17mmT4	MB,MS,EL,BLNUC,SHISB CNTR,R=G		
NGC 4749	Dra		H907-3	Galaxy Sb? sp	VF,CL,E135
Feb 23 2006	31"	17mmT4	MF,MS,EDGO ON,PATCH,UB,NND,MHISB,CIGAR SHAPE,R=G		
NGC 4750	Dra		H78-4	Galaxy (R)SA(rs)ab	PB,L,R,VG,VSBM
Feb 23 2006	31"	17mmT4	PB,PL,R,BSNUC,HISB,SUDLY MBM,DARK PATCHES,FARMS,F HALO SUR NUC,R=E		
NGC 4801	UMa		H816-3	Galaxy L	EF,S,LE
Mar 26 2006	31"	17mmT4	MF,PS,OVAL,BSNUC,R=F		
NGC 4814	UMa		H243-1	Galaxy SA(s)b	B,PS,VLE,VGBM
Mar 26 2006	31"	17mmT4	MB,ML,OVAL,BSNUC,MHISB,GMBM,R NUC,HISB CNTR,R=G		
NGC 4834	CVn		H817-3	Galaxy Sbc	VF,S,IR,BM
Mar 17 2007	31"	17mmT4	MF,MS,OVAL,FLNUC,SHISB,GMBM,R=F		
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,LNUC,MHISB CNTR,SBM,R=F		
NGC 4857	Dra		H908-3	Galaxy SABb	EF,VS,IR,VLBM
Feb 23 2006	31"	17mmT4	PF,PS,R,BLNUC,MHISB CNTR,BM,R=G		
NGC 4932	CVn		H818-3	Galaxy SA(r)c	CF,S,R,VGLBM
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,SHISB,R=F		
NGC 4938	CVn			Galaxy S?	EF,R,PSBM
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,FSNUC,PAIR=MAC,R-F		
NGC 4964	UMa		H779-3	Galaxy S?	EF,S,LE
Apr 14 2004	31"	17mmT4	MF,MS,PATCH,UB,NND,SHISB,F* ON EDGE,R=F		
NGC 4967	UMa		H783-3	Galaxy E	VF,S,E,*ATT
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,FSNUC,R=F		
NGC 4973	UMa		H781-3	Galaxy E/S0	VF,S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL-R,BSNUC,BM,PAIRS/MANY,R=F		
NGC 4974	UMa		H782-3	Galaxy E/S0	VF,S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL-R,BSNUC,BM,PAIRS=4973 GRP,R=F		
NGC 4977	UMa		H780-3	Galaxy SA(r)b	CF,S
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,FLNUC,R=F		
NGC 4987	CVn		H815-2	Galaxy E	VF,VS,STELLAR
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,BSNUC,BM,PAIRS=PGC45564/PGC45520,R=F		
NGC 4998	CVn		H819-3	Galaxy Sc	VF
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,FLNUC,UNKNOWN COMP 3,6' TO S,R=F		
NGC 5001	UMa			Galaxy SB	PF,S,IR,GBM
Apr 14 2004	31"	17mmT4	MF,MS,R,BSNUC,MHISB,R=F		

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NGC 5007	UMa		H848-3	Galaxy S0-:	VF,VS
Apr 14 2004	31"	17mmT4	MF,MS,OVAL-R,BSNUC,PAIR=PGC45617,R=F		
NGC 5009	CVn		H820-3	Galaxy SBb	VF,R,BET2VS*
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,PATCH,UB,NND,R=F		
NGC 5034	UMi		H909-3	Galaxy S?	VF,VS,R
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,R=F		
NGC 5040	CVn		H816-2	Galaxy S	F,S,IR,VGMBM
Apr 14 2004	31"	17mmT4	MF,PS,R,BSNUC,PAIR=MAC,R=F		
NGC 5109	UMa		H826-2	Galaxy S	CF,S,CE
Apr 14 2004	31"	17mmT4	DIF,PF,MS,EL,UB,CNTR BULDGE,PAIR=5113,R=F		
NGC 5113	UMa		H808-3	Galaxy Sbc	CF,S,E,(=5109)
Apr 14 2004	31"	17mmT4	VDIF,VF,PS,EL,PATCH,UB,NND,PAIR=5109,R=P		
NGC 5144	UMi		H70-4	Galaxy SAc? pec	(PLN),CB,S,R,G,SLBM
Apr 14 2004	31"	17mmT4	MF,ML,R,SHISB,PATCHY ARMS DET,R=F		
NGC 5163	UMa		H821-3	Galaxy E	CF,STELLAR
Apr 03 2005	31"	17mmT4	MB,PS,OVAL-R,BSNUC,R=F		
NGC 5164	UMa		H784-3	Galaxy SBb	CF,S,IR
Apr 03 2005	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,PAIR=MAC,R=F		
NGC 5201	UMa		H797-2	Galaxy S?	PF,CS,R,VGLBM
Apr 03 2005	31"	17mmT4	MB,ML,OVAL,BSNUC,KEEP B* OUT OF FOV,R=F		
NGC 5204	UMa		H63-4	Galaxy SA(s)m	PB,CL,IR,GMBM,R
Apr 03 2005	31"	17mmT4	PB,VL,OVAL,UB,NND,SHISB,CLOSE COMP=MAC,PAIRS=MAC,R=G		
NGC 5205	UMa			Galaxy S?	VF,PS,R,BET2VF*
Apr 03 2005	31"	17mmT4	MF,MS,OVAL,VFSNUC,SLT BM,R=F		
NGC 5216	UMa		H841-2	Galaxy E0 pec	PB,S,VLE
Apr 03 2005	31"	17mmT4	PB,ML,R,BLNUC,SBM,MHISB CNTR,R=G		
NGC 5218	UMa		H842-2	Galaxy SB(s)b? pec	PB,PL,R,GBM
Apr 03 2005	31"	17mmT4	PB,ML,OVAL,UB,NND,SHISB,PAIR=5216,R=G		
NGC 5225	CVn		H822-3	Galaxy S?	CF,PS,IR,LBM
Feb 15 2004	31"	17mmT4	MF,MS,OVAL,BSNUC,R=F		
NGC 5238	CVn		H823-3	Galaxy SAB(s)dm	CF,PL,R,VLBM
Feb 15 2004	31"	17mmT4	DIF,PF,VL,OVAL,UB,NND,R=F		
NGC 5250	UMa		H817-2	Galaxy S0	PB,S,R,VGBM
Apr 03 2005	31"	17mmT4	PB,MS,R,BSNUC,SHISB CNTR,R=G		
NGC 5255	UMa		H803-3	Galaxy Sb	VF,VS
Apr 03 2005	31"	17mmT4	MF,VS,BSNUC,R=G		

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NGC 5262	UMi		Galaxy S0-:	EF,S
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,FSNUC,PAIR=PGC47875,R=F	
NGC 5278	UMa	H798-2	Galaxy SA(s)b? pec	PF,R,VS NEB40"F,*N
Apr 03 2005	31"	17mmT4	MF,MS,OVAL,UB,NND,CLOSE COMP=5279,PAIRS=PGC'S,R=F	
NGC 5279	UMa		Galaxy SB(s)a pec	F,VS,F OF 2
Apr 03 2005	31"	17mmT4	PF,PS,OVAL,UB,NND,SHISB,CLOSE COMP=5278,PAIRS=PGC'S,R=F	
NGC 5283	Dra		Galaxy S0?	F,S,STELLAR
Apr 03 2005	31"	17mmT4	MF,PS,R,BSNUC,R=F	
NGC 5294	UMa	H785-3	Galaxy	EF,2ST ATT OR INV
Apr 03 2005	31"	17mmT4	PF,VS,R,UB,NND,F* OFF EDGE,R=F	
NGC 5295	Cam	H946-3	Galaxy	VF,VS,R
Apr 03 2005	31"	17mmT4	PF,PS,OVAL,FSNUC,R=F	
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,BSNUC,R=F	
NGC 5308	UMa	H255-1	Galaxy S0- sp	B,PL,ME57,PSMBEN
Apr 03 2005	31"	17mmT4	PF,PL,EDGE ON,BLNUC,HISB CNTR,DUST SUSP,TAPERED ENDS,BULGE,R=E	
NGC 5314	UMi		Galaxy S?	VF,ES,STELLAR,EF*VNR
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,SHISB,R=F	
NGC 5322	UMa	H256-1	Galaxy E3-4	VB,PL,IR,PSMBM
Apr 03 2005	31"	17mmT4	VB,VL,EL-OVAL,BLNUC,HISB CNTR,* OR COMP OFF NUC,F* ON EDGE,SN?,R=E	
Feb 12 1983	12.5"	16mm	VB,ML,BNUC,R,BM,2F*S OFF IN A LINE	
NGC 5323	UMi	H899-2	Galaxy Sab	VF,PS,LE0
Feb 05 2005	31"	17mmT4	MF,MS,EL-EDGE ON,UB,NND,CNTR BULGE,R=F	
NGC 5340	UMi		Galaxy S	EF,S,R
May 16 2004	31"	17mmT4	DIF,VF,MS,PATCH,UB,NND,PAIRS=MAC'S,R=P	
NGC 5342	UMa	H849-3	Galaxy S0	EF,VS
May 16 2004	31"	17mmT4	PB,MS,EL,BLNUC,R=F	
NGC 5344	UMi		Galaxy	VF,S,R
May 16 2004	31"	17mmT4	PF,MS,OVAL,FSNUC,SLGHTLY BM,R=F	
NGC 5368	UMa	H786-3	Galaxy (R')SABab:	F,CS,R,STELL,*16NF
May 16 2004	31"	17mmT4	MB,MS,OVAL,BLNUC,HISB CNTR,GMBM,PAIR=MAC,R=G	
NGC 5370	UMa	H843-2	Galaxy SB(r)0^	F,S
May 16 2004	31"	17mmT4	MF,MS,OVAL,BLNUC,GMBM,SHISB CNTR,R=G	
NGC 5372	UMa	H809-3	Galaxy S?	CF,S,E,(**INV)
May 16 2004	31"	17mmT4	PB,ML,EL,BLNUC,HISB CNTR,R=G	
NGC 5376	UMa	H238-1	Galaxy SAB(r)b?	CB,PL,VLE,VGMBM
May 16 2004	31"	17mmT4	MB,PL,OVAL,PATCH,SHISB,B PATCH IN GLXY DET CLOSE TO NUC,PAIRS=5389/5379,R=G	

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NGC 5379	UMa		H239-1	Galaxy S0	PB,PS,E,MBM
May 16 2004	31"	17mmT4	DIF,MF,ML,OVAL,PATCH,NND,SMWHT BM,PAIRS=5389/5376/P49512,R=F		
NGC 5389	UMa		H240-1	Galaxy SAB(r)0/a:?	PB,PL,E,MBMN
May 16 2004	31"	17mmT4	PB,PL,EL,BLNUC,MHISB,GMBM,TAPERED ARMS,PAIRS=5379/5376/P49512,R=E		
NGC 5402	UMa		H810-3	Galaxy S?	VF,VS,R
May 16 2004	31"	17mmT4	MF,ML,EDGE ON,NND,F* OFF TIP,SLT BTR ALONG BAR,NO NUC BULGE DET,R=F		
NGC 5412	UMi			Galaxy S0-:	PF,S,R,D*P
May 16 2004	31"	17mmT4	MF,MS,R,BLNUC,MHISB CNTR,R=G		
NGC 5413	Dra			Galaxy E	PF,PS,R,PSLBM,*7P37S
May 16 2004	31"	17mmT4	MF,MS,R,FSNUC,SUDLY BM,L AREA OF ARMS,UB,R=G		
NGC 5415	UMi			Galaxy	EF,VS,R,2F*NR
Mar 06 2003	12.5"	9mmT6	PF,MS,EDGE ON,NND,SBM,LOC IN BARREN * FIELD,R=P		
NGC 5422	UMa		H230-1	Galaxy S0 sp	PB,S,PME45,VSVMBMN
Mar 06 2003	12.5"	9mmT6	PB,ML,EDGE ON,BNUC,HISB,BLNUC,MHISB CNTR,R=G		
NGC 5430	UMa		H827-2	Galaxy SB(s)b	PB,S,IE,MBM
Mar 06 2003	12.5"	9mmT6	MB,PL,OVAL,PATCH,*NUC,R=F		
NGC 5443	UMa		H799-2	Galaxy SB(s)b?	PF,L,E
Mar 06 2003	12.5"	9mmT6	PB,ML,OVAL,PATCH,SHISB,F* IN EDGE,SBM,R=G		
NGC 5452	UMi		H947-3	Galaxy SAB(s)d	VF,PL,IR,VGVLBM
May 16 2004	31"	17mmT4	VDIF,VF,PL,OVAL,PATCH,UB,NND,R=P		
NGC 5457	UMa	M101		Galaxy SAB(rs)cd	PB,VL,IR,G,VSMBMSN 4
Mar 08 2010	31"	17mmT4	PB,EL-OVAL,BSNUC,FACE ON,SPR STR,H2 RGN,DUST,DETAIL IN ARMS,MANY F*S IN ARMS,PAIR:		
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 06 2003	12.5"	9mmT6	EB,EL,R,BSNUC,HISB,FACE ON,KNTS DET,ARMS DET,SPR STR DET,F*S,R NUC,R=E		
Mar 02 1984	10"	20mm	MB,EL,BNUC,FACE ON,F* JUST N OF NUC,SPR STR SUSP		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Apr 16 1980	6"	24mm			
NGC 5471	UMa			Galaxy	F,S,R,*12,13P
Mar 08 2010	31"	17mmT4	MB,PS,OVAL,BLNUC,GLXY IN M101,PAIRS=NGC'S,R=G		
Nov 24 2006	12.5"	12mmT4	VF,VS,R,FSNUC,V CLOSE TO M101,R=F		
May 16 2004	31"	17mmT4	MB,MS,R,BLNUC,LNUC AREA,CLOSE TO M101,MHISB,PAIR=MAC,R=G		
NGC 5473	UMa		H231-1	Galaxy SAB(s)0-:	PB,S,R,GBM
Mar 06 2003	12.5"	9mmT6	PB,ML,R,BNUC,MHISB,R=G		
Jun 11 1983	12.5"	20mm	MB,PS,BNUC,BET 2 F*S E&W,R,SBM,CLOSE TO M101 (N)		
Mar 27 1981	12.5"	24mm			
NGC 5474	UMa		H214-1	Galaxy S(c)	PB,L,BM
Mar 06 2003	12.5"	9mmT6	PF,PL,R,PATCH,NND,PATCHY,F* IN GLXY DET,R=G		
Jun 11 1983	12.5"	20mm	DIF,MB,PL,FNUC,F*NW 1 GLXY DIA,OVAL,BSNUC,S OF M101		
Mar 27 1981	12.5"	24mm			

Circumpolar Observations

NGC 5475	UMa		H800-2	Galaxy Sa? sp	PB,S,PME,BM
Mar 06 2003	12.5"	9mmT6	MB,PL,EL,FNUC,SBM,R=G		
NGC 5477	UMa		H790-3	Galaxy SA(s)m	VF,PL
Nov 24 2006	12.5"	12mmT4	VF,MS,OVAL,PATCH,UB,CLOSE TO M101,R=P		
May 16 2004	31"	17mmT4	DIF,PF,VL,OVAL,UB,NND, 2VF*S IN GLXY,R=F		
Mar 06 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,SUSP ONLY,LOC,GOOD,PAIR/5451,R=P		
NGC 5479	UMi			Galaxy E/S0	EF,VS,R,NEARLYBET2*
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,NND,AV HOLDS,OTHER COMP CLOSE BY,R=P		
NGC 5480	UMa		H692-2	Galaxy SA(s)c:	F,PS,VGBM,NP OF 2
Mar 06 2003	12.5"	9mmT6	DIF,MB,PL,R,PATCH,SBM,L THAN COMP,PAIR/5481,R=F		
NGC 5481	Boo		H693-2	Galaxy E+	F,VS,SMBM,STELL,SF-2
Mar 06 2003	12.5"	9mmT6	DIF,MB,ML,R,PATCH,*NUC,PAIR/5480,R=F		
NGC 5484	UMa		H791-3	Galaxy E2	VF,S,R,4'FROM 5485
Mar 06 2003	12.5"	9mmT6	AV,SUSP ONLY,LOC GOOD,PAIR/5486/5485,R=P		
NGC 5485	UMa		H232-1	Galaxy SA0 pec	CB,R,VGBM,F OF 2
Mar 06 2003	12.5"	9mmT6	PB,PL,PATCH,MHISB,SGBM,PAIR/5486/5484,R=G		
Mar 27 1981	12.5"	24mm			
NGC 5486	UMa		H801-2	Galaxy SA(s)m:	F,PL
Mar 06 2003	12.5"	9mmT6	VDIF,VF,ML,PATCH,NND,PAIR/5485/5484,R=P		
NGC 5503	UMa			Galaxy	EEF,VS,R,VDIFFIC,
Mar 26 2006	31"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
NGC 5520	Boo		H676-3	Galaxy Sb	F,S,LE,STELLAR
Jun 01 2003	12.5"	9mmT6	DIF,PF,PL,OVAL,PATCH,FNUC,SHISB,SNUC AREA,SBM,R=F		
Mar 06 2003	12.5"	9mmT6	MB,MS,EL,BNUC,BSNUC,SLT HISB,R=F		
NGC 5526	UMa		H804-3	Galaxy Sbc	VF,S,E,R
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PS,EL,PATCH,NND,CLOSE COMP NOT DET,R=P		
NGC 5540	UMa		H805-3	Galaxy	EF,VS,R,STELLAR
Mar 06 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,UB,R=P		
NGC 5547	UMi		H948-3	Galaxy Double System	EF,VS,E0
Mar 06 2003	12.5"	9mmT6	EDIF,EF,PS,PATCH,AV,R=P		
NGC 5561	UMa			Galaxy Sm	EF,PS,R,F*CLOSE P
Jun 01 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,SUSP,LOC GOOD,R=P		
NGC 5585	UMa		H235-1	Galaxy SAB(s)d	PF,L,IR,VGMBM,R
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VL,OVAL,PATCH,NND,PATCH AREA'S IN VAR PARTS DET,R=F		
NGC 5602	Boo		H694-2	Galaxy Sa	PF,PS,LE,MBM
Jun 01 2003	12.5"	9mmT6	MF,MS,OVAL,FNUC,SHISB,SNUC,R=F		

Circumpolar Observations

NGC 5607	UMi		H331-2	Galaxy Pec	PF,CS,IR,BM,ER
Jun 01 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,NND,R=P		
NGC 5620	UMi		H319-3	Galaxy	EF,VS
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,UB,F* JUST TO THE N,R=P		
NGC 5624	Boo			Galaxy S?	EF,S,LE
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,UB,NND,R=P		
NGC 5631	UMa		H236-1	Galaxy SA(s)0^	B,S,R,PSBMN
Jun 01 2003	12.5"	9mmT6	PB,ML,EL,BSNUC,SHISB,HALO-ARMS,ALM *,GMBM,R=G		
Jun 11 1983	12.5"	20mm	MF,VS,BNUC,SVRL F*S TO N,R,GBM,BARREN AREA TO S		
NGC 5640	Cam		H949-3	Galaxy Ia	EF,S,LE
Jun 01 2003	12.5"	9mmT6	EDIF,EF,VS,PATCH,AV,SUSP,R=P		
NGC 5667	Dra		H807-2	Galaxy Scd: pec	PB,PS,E0
Apr 14 2004	31"	17mmT4	MB,ML,EL,SHISB,PATCHY AND DARK AREAS IN CNTR RGN DET,R=G		
NGC 5671	UMi		H882-3	Galaxy SB(r)b	VF,PL,R,BM
Jun 01 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,UB,AV HOLDS,R=P		
NGC 5678	Dra		H237-1	Galaxy SAB(rs)b	B,L,LE0,VGMBM
Apr 14 2004	31"	17mmT4	VB,VL,OVAL,SHISB,GRADUALLY BM,MHISB CNTR,PAIR=PGC51922,R=G		
Jul 22 1981	12.5"	16mm	OBLONG,SBM,DIF,DNUC,F HALO		
NGC 5687	Boo		H808-2	Galaxy S0-?	PF,S,IF,RESOLVA,*10F
Apr 14 2004	31"	17mmT4	MF,MS,EL,* BOTH TIPS,SOFT BLNUC,MHISB CNTR,PAIR=PGC52098,R=F		
May 06 1981	12.5"	24mm	MB,MS,BNUC,DIM HALO,*13 MAG EDGE OF GLXY		
NGC 5707	Boo			Galaxy Sab: sp	B,PS,R
Apr 14 2004	31"	17mmT4	MB,PL,EL,BLNUC,COMP OFF TIP(PGC52269),SHISB CNTR,TAPERED ENDS,R=G		
NGC 5712	UMi		H950-3	Galaxy	VF,S,R,S CL P
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,AV HOLDS,PAIR=IC4470,R=P		
NGC 5720	Boo			Galaxy Sb	EEF,PS,R,BET 2*
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,FSNUC,SBM,R=F		
NGC 5751	Boo		H809-2	Galaxy Scd:	F,S,VLE,TRI2*10,11
Apr 14 2004	31"	17mmT4	PF,ML,OVAL,UB,NND,EGG SHAPE,R-F		
NGC 5777	Dra		H806-3	Galaxy Sb	VF,VS,LE
Apr 14 2004	31"	17mmT4	MF,MS,EDGE ON,FLNUC,CNTR BULDGE,DUST SUSP,PAIR=PGC53057,R=F		
NGC 5779	Dra			Galaxy S	VF,PS,LE,LBM
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,BLNUC,MHISB,* OFF EDGE,R=G		
NGC 5783	Boo			Galaxy SBc	PB,PS,IR,F*INV
Apr 14 2004	31"	17mmT4	MF,ML,OVAL,PATCH,UB,NND,* IN GLXY,PAIR=5788,R=F		
NGC 5788	Boo			Galaxy	EEF,S,R,VDIFFIC,SF-2
Apr 14 2004	31"	17mmT4	DIF,PF,MS,EL,PATCH,UB,NND,PAIR=5783,R=F		

Circumpolar Observations

NGC 5807	Dra		Galaxy Compact	VF,VS,RESOLVABLE
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,FSNUC,R=F	
NGC 5819	UMi		H311-3 Galaxy SAB(rs)bc	F,PL,TRI 2*
Apr 14 2004	31"	17mmT4	MF,PL,OVAL,PATCH,UB,NND,R=F	
NGC 5820	Boo		H756-2 Galaxy S0 sp	B,E90,SBM,B D*F8'
Jun 21 2003	12.5"	9mmT6	PB,ML,OVAL,BNUC,MHISB,BLNUC AREA,B** IN FOV,R=G	
May 06 1981	12.5"	24mm	DIF,VF,VS,F HALO,JUST W OF A NICE DBL *	
NGC 5821	Boo		H811-3 Galaxy S?	VF,S
Jun 21 2003	12.5"	9mmT6	VF,MS,PATCH,UB,NND,GET B* OUT OF FOV,PAIRS/5836/OGC53476,R=F	
NGC 5832	UMi		H332-2 Galaxy SB(rs)b?	PB,CL,IR,BP,R
Apr 14 2004	31"	17mmT4	DIF,PF,VL,OVAL,PATCH,UB,NND,R=G	
NGC 5836	UMi		H312-3 Galaxy SB(rs)b	EF,VS,LE,2*INV
Jun 21 2003	12.5"	9mmT6	MF,ML,R,*NUC,SHISB,F* IN CNTR NUC,PAIRS/5821/PGC53476,R=G	
NGC 5862	Dra		Galaxy C	EF,PS,R,VDIFFIC
Apr 23 2003	12.5"	9mmT6	VDIF,VF,VS,OVAL,PATCH,NND,KEEP B* OUT OF FOV,CLOSE TO M102,R=P	
NGC 5866	Dra	M102	H215-1 Galaxy SA0+ sp	VB,CL,PME146,GBM
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Apr 23 2003	12.5"	9mmT6	EB,VL,OVAL,BNUC,HISB,AWSOME,BEAUTIFUL,TAPERED ENDS,LNUC AREA,GMBM,R=E	
Jun 20 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
Jul 14 1980	12.5"	24mm		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jul 22 1981	12.5"	16mm	VB,ML,EL,BNUC,B HALO SUR NUC	
Jul 09 1983	12.5"	12mm	MB,ML,BNUC,2F*S ON BOTH SIDES,BLNUC,TAPERED ENDS	
Mar 02 1984	10"	20mm	SAME	
NGC 5866B	Dra		Galaxy SAB(rs)dm:	
Apr 23 2003	12.5"	9mmT6	VDIF,VF,PL,OVAL-R,PATCH,UB,NND,R=F	
NGC 5870	Dra		Galaxy S0?	EF,PS,LE,VDIFFIC,*F
Apr 23 2003	12.5"	9mmT6	EDIF,EF,ES,OVAL,PATCH,NND,AV HOLDS,CLOSE TO M102,R=P	
NGC 5874	Boo		Galaxy SAB(rs)c	VF,PL,R,INTRI OF3B*
Apr 23 2003	12.5"	9mmT6	PF,VL,OVAL,PATCH,UB,NND,CNTR OF TRI OF *S,R=G	
NGC 5875	Boo		H755-2 Galaxy SAb:	PB,PL,LE
Apr 23 2003	12.5"	9mmT6	EL,PATCH,UB,NND,R=G	
NGC 5876	Boo		Galaxy SB(r)ab:	F,S,R,MBM
Apr 23 2003	12.5"	9mmT6	MB,ML,OVAL,BNUC,MHISB,R=G	
NGC 5879	Dra		H757-2 Galaxy SA(rs)bc:?	CB,S,E,MBMRN,R
Apr 23 2003	12.5"	9mmT6	EL-OVAL,BNUC,MHISB,LNUC AREA,HISB CNTR,R=G	
Jul 09 1983	12.5"	16mm	MB,ML,EL,BNUC,SBM,NO *S,LNUC AREA	
Jul 22 1981	12.5"	16mm	DIF,MF,ML,EL TO EDGE ON,GBM,F HALO	

Circumpolar Observations

NGC 5881	Dra		H818-2 Galaxy SB(s)dm	PF,CS,R,VGBM
Apr 23 2003	12.5"	9mmT6	DIF,VF,VS,PATCH,UB,NND,R=P	
Apr 23 2003	12.5"	9mmT6	PF,PS,PATCH,UB,NND,R=F	
NGC 5894	Dra		H763-2 Galaxy SBdm?	PF,PS,E0
Apr 23 2003	12.5"	9mmT6	PB,PL,EL-EDGE ON,UB,NND,SOME DUST SUSP,R=G	
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,EDGE ON,SBM,TAPERED	
NGC 5902	Boo		H737-3 Galaxy S	VF,VS,STELLAR
Apr 23 2003	12.5"	9mmT6	MF,MS,R,BNUC,MHISB,GMBM,R=F	
NGC 5905	Dra		H758-2 Galaxy SB(r)b	PF,PS,IR
Apr 23 2003	12.5"	9mmT6	PB,PL,FNUC,MHISB,PATCH AREA DET,PAIR=5908,R=G	
Jul 09 1983	12.5"	16mm	DIF,MF,PS,EDGE ON,BNUC,PAIR/5907,BM,TAPERED ENDS,2F*S SUR GLXY	
Jul 22 1981	12.5"	16mm	PF,MS,EDGE ON,F HALO,PAIR/5908	
Jun 20 1980	12.5"	24mm		
NGC 5907	Dra		H759-2 Galaxy SA(s)c: sp	CB,VL,VME155,VGPSBMN
Apr 23 2003	12.5"	9mmT6	VF,VL,EDGE ON,BNUC,MHISB,BEAUTIFUL,DUST LANE,CNTR BULGE,R=E	
Jul 09 1983	12.5"	16mm	MB,PS,EL,V 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	V IMPRESSIVE,VB,EL	
NGC 5908	Dra		H760-2 Galaxy SA(s)b: sp	PF,PS,R
Apr 23 2003	12.5"	9mmT6	PB,PL,EDGE ON,FNUC,SHISB,LNUC AREA,DARK LANE SUSP,PAIR=5905,R=G	
Jul 09 1983	12.5"	16mm	MB,PL,ELEGDE ON,BNUC,DUST LANES SUSP,TAPERED ENDS	
Jul 22 1981	12.5"	16mm	SMWHT B THAN COMP 5905,EDGE ON,DNUC,F HALO	
Jun 20 1980	12.5"	24mm		
NGC 5909	UMi		H943-3 Galaxy S?	VF,VS
Apr 23 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,SNUC,COMP=5912,R=F	
NGC 5912	UMi		H944-3 Galaxy E?	VF,VS
Apr 23 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,FNUC,COMP=5909,SLT BM,R=F	
NGC 5939	UMi		Galaxy S?	PB,PS,LE
Apr 23 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 5949	Dra		H906-2 Galaxy SA(r)bc?	F,S,LE45,VGLBM
Apr 23 2003	12.5"	9mmT6	DIF,PB,ML,PATCH,UB,NND,MHISB,R=G	
Jul 09 1983	12.5"	16mm	MB,PS,PATCH,MHISB	
Jul 22 1981	12.5"	16mm	VDIF,NO SPR STR SEEN,SBM	
NGC 5963	Dra		H761-2 Galaxy S pec	PF,PS,IF
Apr 23 2003	12.5"	9mmT6	PB,PL,OVAL,PATCH,UB,MHISB,PAIR=5965,R=G	
Jul 09 1983	12.5"	16mm	MB,PS,BNUC,F* CLOSE BY,R,SBM,PAIR/5965	

Circumpolar Observations

NGC 5965	Dra		H762-2 Galaxy Sb	CF,CL,LE
Apr 23 2003	12.5"	9mmT6	PB,PL,EL,PATCH,UB,NND,SHISB,PAIR=5963,R=G	
Jul 09 1983	12.5"	12mm	MHISB IN CNTR	
Jul 09 1983	12.5"	16mm	MF,PL,EDGE ON,FNUC,SBM,TAPERED ENDS,PAIR/5963	
NGC 5969	Dra		Galaxy E/S0	ES,R,STELLAR
Apr 23 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,UB,PAIR=5971,R=P	
NGC 5971	Dra		Galaxy Sa	EEF,VS,R,LBM
Apr 23 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,UB,NND,PAIR=5969,R=F	
NGC 5976	Dra		Galaxy SA0:	EEF,S,R
Apr 23 2003	12.5"	9mmT6	EDIF,EF,ES,PATCH,AV,COMES AND GOES,PAIR=5981,R=P	
NGC 5981	Dra		Galaxy Sc? sp	F,ME
Apr 23 2003	12.5"	9mmT6	PB,PL,EDGE ON,PATCH,NND,CNTR BULGE,PAIR=5982/5985,R=G	
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,EL,V THIN,SVRL OTHER GLXY IN FIELD	
NGC 5982	Dra		H764-2 Galaxy E3	CB,S,R,PSBM,R
Apr 23 2003	12.5"	9mmT6	VF,ML,BNUC,R,MHISB,GMBM,LNUC,PAIR=5981/5985,R=G	
Jul 09 1983	12.5"	16mm	MB,ML,BNUC,R,BM,SVRL OTHER PAIRS	
Jul 22 1981	12.5"	24mm	VMBM,F 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 SAB(r)b	PB,CL,IE,R
Apr 23 2003	12.5"	9mmT6	MB,VL,OVAL,PATCH,UB,NND,PATCHY KNTS SUSP,PAIR=5981/5982,R=G	
Jul 09 1983	12.5"	12mm	*NUC OR *,OTHERS PRESENT	
Jul 09 1983	12.5"	16mm	MF,PL,EL,UB,SPR STR SUSP,OTHER COMP	
Jul 22 1981	12.5"	16mm	DIF,R,SPR STR SUSP,OTHER GLXY PRESENT	
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
Jun 20 1980	12.5"	24mm		
NGC 5987	Dra		H765-2 Galaxy Sb	PF,CS
Apr 23 2003	12.5"	9mmT6	PB,MS,R,BNUC,MHISB,B* CLOSE BY,LNUC,GMBM,R=G	
Jul 09 1983	12.5"	16mm	MB,PS,EL,B*W SIDE,MHISB,SBM,OTHER PAIRS PRESENT	
NGC 5989	Dra		H738-3 Galaxy Scd?	VF,VS
Jun 01 2003	12.5"	9mmT6	SAME	
Apr 23 2003	12.5"	9mmT6	DIF,MF,ML,PATCH,NND,SHISB,R=F	
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,PATCH,NND,SHISB	
NGC 6011	UMi		H313-3 Galaxy Sb	VF,S,E90,VS*F
Apr 23 2003	12.5"	9mmT6	MF,MS,FNUC,PATCH,F* EDGE OF GLXY,R=F	

Circumpolar Observations

NGC 6015	Dra		H739-3	Galaxy SA(s)cd	VF,PL,R,VGBM
Jun 01 2003	12.5"	9mmT6		MB,VL,EL-OVAL,NND,SHISB,F*S IN TIP,CIGAR SHAPE,CNTR BULGE,R=G	
Jul 09 1983	12.5"	16mm		MB,PL,OVAL,MHISB,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 S CL,~4 *S?	
Jul 11 1980	12.5"	24mm			
Jun 20 1980	12.5"	24mm			
NGC 6019	Dra			Galaxy	EEF,S,R,VDIFFIC
Mar 04 2006	31"	17mmT4		PF,PS,OVAL,PATCH,UB,NND,R=F	
NGC 6024	Dra			Galaxy S	PF,PS,R,BM,*CLOSE
Jun 01 2003	12.5"	9mmT6		VDIF,EF,VS,PATCH,CL OF F*S SUR OBJ,HINT OF GLXY PRESENT,*,R=P	
NGC 6048	UMi		H873-2	Galaxy E	F,R,BM
Jun 01 2003	12.5"	9mmT6		DIF,MF,MS,OVAL,PATCH,UB,SHISB,R=F	
NGC 6068	UMi		H973-3	Galaxy SBbc?	VF,VS,LE0,R
Jun 01 2003	12.5"	9mmT6		DIF,VF,MS,OVAL,UB,NND,PAIR=6068A,R=F	
NGC 6068A	UMi			Galaxy S0? sp	
Jun 01 2003	12.5"	9mmT6		VDIF,EF,PS,EL,PATCH,AV HOLDS,PAIR=6068,R=P	
NGC 6071	UMi		H883-3	Galaxy SB(s)b	EF,VS
Jun 01 2003	12.5"	9mmT6		EDIF,VF,VS,PATCH,AV HOLDS,R=P	
NGC 6079	UMi		H884-3	Galaxy E	VF,VS
Jun 01 2003	12.5"	9mmT6		PF,PS,R,BNUC,R=F	
NGC 6088	Dra		H812-3	Galaxy	VF,VS,LE
Mar 04 2006	31"	17mmT4		MF,MS,OVAL,FSNUC,SHISB,CAN SEP FROM PGC'S,PAIRS=PGC'S,R=G	
NGC 6090	Dra			Galaxy S0?	VF,S,R
Jun 21 2003	12.5"	9mmT6		PF,ML,OVAL,FNUC,SHISB,LNUC AREA,2 COMP CLOSE BY,R=F	
NGC 6091	UMi			Galaxy	VF,VS,R,*N
Jun 01 2003	12.5"	9mmT6		EDIF,EF,VS,PATCH,AV,SUSP,R=P	
NGC 6094	UMi		H314-3	Galaxy S0	VF,VS,LE
Apr 14 2004	31"	17mmT4		MF,MS,R,FLNUC,R=F	
NGC 6095	Dra			Galaxy S0-:	EF,PS,R,LINew/2*
Jun 21 2003	12.5"	9mmT6		PB,ML,OVAL,FNUC,SHISB,SOFT SNUC,2 COMP PRESENT,R=G	
NGC 6111	Dra			Galaxy E/S0	VF,PS,LE,D*NR S
Jun 21 2003	12.5"	9mmT6		PF,MS,OVAL,FSNUC,SOFT NUC,CLOSE COMP=PGC57569,R=F	
NGC 6123	Dra			Galaxy S0/a	PF,VS,E,*NR
Jun 22 2003	12.5"	9mmT6		MB,ML,OVAL,BNUC,SHISB,LNUC ARA,GMBM,R=F	
NGC 6130	Dra			Galaxy SBbc:	PF,PL,R,B*NR P
Jun 22 2003	12.5"	9mmT6		PF,PL,PATCH,UB,NND,B* IN FOV CLOSE BY,R=F	

Circumpolar Observations

NGC 6136	Dra		Galaxy Sc	EEF,S,R,VDIFFIC
Jun 22 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,NND,AV HOLDS,PAIR=PGC57907,R=P	
NGC 6140	Dra		H740-3 Galaxy SB(s)cd pec	CF,PL,IR
Jun 22 2003	12.5"	9mmT6	MB,VL,OVAL,UB,NND,R=G	
Jun 21 2003	12.5"	9mmT6	MF,VL,OVAL,PATCH,UB,NND,MHISB,B* OFF ONE SIDE,R=G	
Jul 09 1983	12.5"	16mm	DIF,MF,PL,EL-OVAL,NND	
NGC 6143	Dra		H811-2 Galaxy SAB(rs)bc:	PB,IR,VGVLBM
Jun 22 2003	12.5"	9mmT6	PB,ML,PATCH,UB,NND,SHISB,L PATCH,BET 2F*S,R=G	
NGC 6157	Dra		Galaxy E/S0	EEF,PS,R,VDIFFIC
Jun 22 2003	12.5"	9mmT6	PF,PS,OVAL,PATCH,FNUC,FSNUC,R=F	
NGC 6176	Dra		Galaxy E/S0	EF,ES,VDIFFIC
Mar 04 2006	31"	17mmT4	MF,PS,OVAL,FLNUC,SHISB CNTR,R=F	
NGC 6182	Dra		H813-3 Galaxy Sa	VF,VS,IR
Jun 22 2003	12.5"	9mmT6	PB,ML,OVAL,FNUC,SHISB,FSNUC,SBM,CLOSE COMP=PGC58331,R=F	
NGC 6187	Dra		Galaxy S	VF,VS,LBM
Jun 22 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,UB,NND,R=P	
NGC 6189	Dra		Galaxy Scd:	VF,PS,LE
Jun 22 2003	12.5"	9mmT6	PB,ML,PATCH,NND,MHISB TOWARDS CNTR,R=G	
NGC 6190	Dra		Galaxy Scd:	VF,PS,R,F*NR
Jun 22 2003	12.5"	9mmT6	PF,PL,PATCH,FNUC,SHISB IN CNTR,SBM,R=F	
NGC 6198	Dra		Galaxy E	VF,VS,R,2*F
Jun 22 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,NND,R=P	
NGC 6206	Dra		Galaxy S0:	PF,ES,R,STELL,3VF*NR
Jun 22 2003	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,R=P	
NGC 6211	Dra		Galaxy SB(r)0⁺ pec:	VF,PS,R,SP OF 2
May 09 2010	31"	17mmT4	MB,MS,OVAL,BLNUC,MHISB CNTR,PAIRS=6213/PGC'S,R=G	
Jun 22 2003	12.5"	9mmT6	MB,PL,OVAL,FNUC,SHISB,SNUC,GMBM,COMP=6213,OTHERS PRESENT,R=F	
NGC 6213	Dra		Galaxy Early Spiral	EF,VS,R,NF OF 2
May 09 2010	31"	17mmT4	MF,PS,EL,FLNUC,PAIRS=6211/PGC'S,R=F	
Jun 22 2003	12.5"	9mmT6	DIF,PF,ML,PATCH,UB,NND,COMP=6211 AND PGC58783,OTHERS PRESENT,R=F	
NGC 6214	Dra		Galaxy S	EF,VS,R
Jun 22 2003	12.5"	9mmT6	MF,MS,PATCH,UB,NND,R=F	
NGC 6217	UMi		H280-1 Galaxy (R)SB(rs)bc	B,CL,LE,SLBM
Jun 22 2003	12.5"	9mmT6	PB,VL,R,FNUC,SHISB,FACE ON,FSNUC,DUST SUSP,FARMS,R=E	
Aug 13 1982	12.5"	16mm	PF,PS,DIF,*NUC,OVAL,SBM,NO *S	
NGC 6223	Dra		Galaxy Pec	F,S,R,MBM
Jun 24 2003	12.5"	9mmT6	MB,ML,R,BNUC,SHISB,BMBM,LNUC AREA,R=G	

Circumpolar Observations

NGC 6226	Dra		Galaxy Pec	F,S,TRIW/2*12\$14
Jun 24 2003	12.5"	9mmT6	MF,MS,OVAL-R,PATCH,UB,NND,PAIR=PGC58846,R=F	
NGC 6232	Dra		Galaxy (R')SB(s)a	PF,PL,LE
Jun 24 2003	12.5"	9mmT6	MB,PL,OVAL,PATCH,*NUC,*NUC OR F* IN GLXY,PAIR=6236,R=F	
NGC 6236	Dra		Galaxy SAB(s)cd	F,PL
Jun 24 2003	12.5"	9mmT6	DIF,VF,VL,OVAL,PATCH,UB,NND,PAIR=6232,R=P	
NGC 6238	Dra		Galaxy Pec	EEF,ES,EF*NR,VDIFFIC
Jun 24 2003	12.5"	9mmT6	MB,ML,OVAL,FNUC,SLT BM,PAIRS=6244/PGC58938,R=F	
NGC 6244	Dra		Galaxy SBa:	VF,VS,R,BET2*,NF OF2
Jun 24 2003	12.5"	9mmT6	MB,ML,EL,UB,NND,SHISB,PAIRS=6238/PGC58938,R=F	
NGC 6246	Dra		Galaxy SBb?	EF,S,R
Jun 24 2003	12.5"	9mmT6	MB,VL,OVAL-R,NND,SHISB,PAIR=6246A,R=F	
NGC 6246A	Dra		Galaxy SAB(r)c pec:	
Jun 24 2003	12.5"	9mmT6	PB,MS,OVAL,BNUC,SHISB,BSNUC,CLOSE TO B*,PAIR=6246,R=F	
NGC 6247	Dra		Galaxy Pec	F,PS,IF
Jun 24 2003	12.5"	9mmT6	PB,ML,OVAL,FSNUC,SOFT NUC,R=G	
NGC 6248	Dra		Galaxy SBd	EEF,PL,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	DIF,VF,PL,EL,UB,NND,R=F	
NGC 6251	UMi		H974-3 Galaxy E	CF,S,BM,P OF 2
Jun 22 2003	12.5"	9mmT6	PF,MS,PATCH,FNUC,SHISB TOWARDS CNTR,SBM,PAIR=6252,R=F	
NGC 6252	UMi		H975-3 Galaxy S R	VF,VS,F OF 2
Jun 22 2003	12.5"	9mmT6	EDIF,VF,VS,PATCH,NND,AV,PAIR=6251,R=P	
NGC 6258	Dra		Galaxy E	EF,VS,R,B*\$D*P
Jun 24 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,*NUC,R=F	
NGC 6260	Dra		Galaxy Sc	EF,PS,R,SEV*NR SF
Jun 24 2003	12.5"	9mmT6	PB,MS,PATCH,UB,NND,R=F	
NGC 6275	Dra		Galaxy Compact	EEF,S,LE,VDIFFIC
Jun 24 2003	12.5"	9mmT6	VDIF,EF,PS,OVAL,PATCH,AV COMES AND GOES,LOC GOOD,R=P	
NGC 6285	Dra		Galaxy S0+? pec	EEF,S,R,VDIFFIC,NP-2
Jun 21 2003	12.5"	9mmT6	DIF,PF,PL,PATCH,UB,NND,COMP=6286,R=F	
NGC 6286	Dra		Galaxy Sb: pec	EF,PS,R
Jun 21 2003	12.5"	9mmT6	DIF,PF,PL,EL,PATCH,UB,NND,COMP=6285,R=F	
NGC 6288	Dra		Galaxy E/S0	EF,VS,R,SP OF 2
Jun 24 2003	12.5"	9mmT6	DIF,MF,MS,OVAL,PATCH,UB,NND,PAIR=6289,R=F	
NGC 6289	Dra		Galaxy E/S0	EF,PL,ME,NF OF 2
Jun 24 2003	12.5"	9mmT6	DIF,MF,MS,OVAL,PATCH,UB,NND,PAIRS=6288/PGC59359,R=F	

Circumpolar Observations

NGC 6290	Dra		Galaxy SBa	EF,PS,R,*CLOSE F
Jun 21 2003	12.5"	9mmT6	MB,PS,PATCH,UB,NND,PAIR=6291,R=G	
NGC 6291	Dra		Galaxy SBb	EEF,ES,R
Jun 21 2003	12.5"	9mmT6	MB,PS,PATCH,FNUC,SNUC,PAIR=6290,R=G	
NGC 6292	Dra		Galaxy Sbc	EF,E,VDIFFIC,FST NR
Jun 21 2003	12.5"	9mmT6	PF,MS,PATCH,UB,NND,F* IN AND SUR GLXY,R=F	
NGC 6295	Dra		Galaxy S	EF,S,ME,F*NR
Jul 09 2005	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,R=F	
NGC 6297	Dra		Galaxy S0	PB,PS,R,BET2*,P OF 2
Jun 21 2003	12.5"	9mmT6	MB,MS,PATCH,UB,NND,MHISB,R=G	
NGC 6299	Dra		Galaxy S	VF,VS,R
Jun 21 2003	12.5"	9mmT6	MF,MS,R,FNUC,SHISB,SLT BM,R=F	
NGC 6303	Dra		Galaxy E	EF,PL,ME,NR BET 2*
Jun 21 2003	12.5"	9mmT6	MF,MS,PATCH,FNUC,*NUC,R=F	
NGC 6306	Dra		Galaxy SB(s)ab pec:	VF,VS,LE
Jun 21 2003	12.5"	9mmT6	PB,PL,PATCH,UB,NND,COMP=6307,R=G	
NGC 6307	Dra		Galaxy (R')SB(s)0/a p	VF,VS,LE,*13NR N
Jun 21 2003	12.5"	9mmT6	MB,ML,OVAL,BNUC,MHISB,GBM,F* IN EDGE OF GLXY,COMP=6306,R=G	
NGC 6310	Dra		Galaxy Sb: sp	F,PL,LE
Jun 21 2003	12.5"	9mmT6	PB,PL,EDGE ON,UB,NND,SHISB,R=G	
NGC 6317	Dra		Galaxy L	EEF,S,R,F*NR,SP OF 2
Jun 21 2003	12.5"	9mmT6	EDIF,EF,VS,PATCH,AV COMES AND GOES,LOC GOOD,PAIR=6319,R=P	
NGC 6319	Dra		Galaxy E/S0	VF,VS,R,LBM,NF OF 2
Jun 21 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,UB,PAIR=6317,R=F	
NGC 6324	UMi		H945-3 Galaxy S?	VF,S,E,S*S
Jun 21 2003	12.5"	9mmT6	MF,MS,PATCH,UB,NND,SHISB,R=G	
NGC 6331	UMi		H951-3 Galaxy E	EF,S
May 31 2014	36"	17mmT4	MF,MS,OVAL,FLNUC,V CLOSE COMP=MAC,CAN SEP,AGC 2256,R=F	
Jun 21 2003	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,OTHERS PRESENT,R=P	
NGC 6338	Dra		H812-2 Galaxy S0	F,S,R,VGLBM
Mar 04 2006	31"	17mmT4	MB,ML,R,BLNUC,MHISB,PAIRS=6345/OTHERS,R=G	
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL-R,BNUC,SHISB,GMBM,CLOSE COMP=PGC59943,CL 1 OF 5,R=G	
NGC 6340	Dra		H767-2 Galaxy SA(s)0/a	CF,PL,R,VGMBM
Jun 22 2003	12.5"	9mmT6	PB,PL,R,BNUC,MHISB,BSNUC,FACE ON,SPR STR SUSP,PAIR=IC1251/IC1254,R=G	
Jul 22 1981	12.5"	16mm	ALM *NUC,DIF HALO,F* SUSP N SIDE	

Circumpolar Observations

NGC 6345	Dra		Galaxy S/S0	EEF,VS,R,2ND OF 3
Mar 04 2006	31"	17mmT4	BM,PS,EL EDGE ON,BSNUC,BAR LIKE NUC,SBM,HISB CNTR,PAIRS=6338,R=F	
Mar 04 2006	31"	17mmT4	MB,MS,EL,BSNUC,MHISB CNTR,PAIRS=6346/PGC/MAC,R=G	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,EL,PAIR=6346CL 2 OF 5,R=P	
NGC 6346	Dra		Galaxy E	EEF,S,R,3RD OF 3
Mar 04 2006	31"	17mmT4	MB,MS,EL,BLNUC,MHISB CNTR,PAIRS=6345/PGC/MAC,R=G	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,PAIR=6345,CL 3 OF 5,R=P	
NGC 6358	Dra		Galaxy S	EF,S,R,D*NR NP
Jun 23 2003	12.5"	9mmT6	PF,MS,PATCH,UB,NND,R=F	
NGC 6359	Dra		Galaxy SA0-:	PB,S,R,BMN=*12
Jun 22 2003	12.5"	9mmT6	PB,PL,OVAL,BNUC,MHISB,BLNUC,GMBM,R=G	
NGC 6361	Dra		Galaxy SAb: sp	VF,PS,ME,NEAR BET 2*
Apr 26 2006	31"	17mmT4	MF,ML,EDGE ON,UB,NND,THIN SLIVER,SOME CNTR BULGING,PAIR=PGC60040,R=G	
Jun 22 2003	12.5"	9mmT6	MB,ML,EDGE ON,NND,CNTR BULGE NOT DET,PATCHY AREAS,EL,R=F	
NGC 6365A	Dra		Galaxy SBcd:	EEF,PL,IR,EF ST INV
Mar 04 2006	31"	17mmT4	VF,PS,EL,UB,NND,CLOSE INTRACT PAIR 6365,BARELY SEP THE TWO,R=F	
Jun 23 2003	12.5"	9mmT6	VDIF,VF,PS,UB,NND,COMP=6365B,APPEARS AS ONE GLXY,EL,R=P	
NGC 6365B	Dra		Galaxy S	
Jun 23 2003	12.5"	9mmT6	VDIF,VF,PS,UB,NND,COMP=6365A,APPEARS AS ONE GLXY,EL,R=P	
NGC 6370	Dra		Galaxy E	VF,VS,R,B*NR N
Jun 23 2003	12.5"	9mmT6	PB,ML,R,BNUC,MHISB,CLOSE TO B*,R=G	
NGC 6373	Dra		Galaxy SAB(s)c	EEF,PL,VDIFFIC
Jun 23 2003	12.5"	9mmT6	DIF,VF,MS,OVAL,PACH,UB,NND,R=P	
NGC 6376	Dra		Galaxy S0/a	EEF,ES,R,VDIFFIC
Jun 23 2003	12.5"	9mmT6	PF,MS,UB,NND,AV,COMP=6377,R=F	
NGC 6377	Dra		Galaxy Sa	EF,ES,R,LBM
Jun 23 2003	12.5"	9mmT6	PF,MS,PATCH,FNUC,AV,SNUC,SLT BM,COMP=6376,R=F	
NGC 6381	Dra		Galaxy SA(s)c?	VF,PL,E
Jun 23 2003	12.5"	9mmT6	MB,PL,OVAL,PATCH,UB,NND,SHISB,EL WITH AV,COMP=PGC60316,R=F	
NGC 6382	Dra		Galaxy S	PF,PS,R
Jun 24 2003	12.5"	9mmT6	PF,MS,EL,FNUC,SLT BM,R=F	
NGC 6385	Dra		Galaxy SB(s)a	EF,S,R,B*S
Jun 24 2003	12.5"	9mmT6	PF,MS,PATCH,SLT BM,B* IN FOV,PAIR=6387,R=F	
NGC 6386	Dra		Galaxy Sbc	VF,PS,R,BET2*
Jun 24 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,NND,R=P	
NGC 6387	Dra		Galaxy H II	EF,S,R
Jun 24 2003	12.5"	9mmT6	VF,PS,PATCH,UB,PAIR=6385,R=P	

Circumpolar Observations

NGC 6390	Dra		Galaxy Sbc	EEF,ME,VDIFFIC
Jun 23 2003	12.5"	9mmT6	DIF,PF,ML,OVAL,PATCH,UB,NND,JUMPS OUT WITH AV,PAIR=PGC60339/PGC60374,R=P	
NGC 6391	Dra		Galaxy E/S0	EF,VS,R,NEARLYBET 2*
Jun 24 2003	12.5"	9mmT6	PF,PS,OVAL,PATCH,UB,R=F	
NGC 6393	Dra		Galaxy SBb	EF,PS,R,S OF 2
Jun 24 2003	12.5"	9mmT6	PF,MS,PATCH,UB,INSIDE TRI OF *S,PAIR=6394,R=F	
NGC 6394	Dra		Galaxy Spiral	EF,PS,R,N OF 2
Jun 24 2003	12.5"	9mmT6	VDIF,EF,PS,PATCH,AV,PAIR=6393,R=P	
NGC 6395	Dra		Galaxy Scd:	VF,PL,LE,D*N
Jun 23 2003	12.5"	9mmT6	MB,PL,EL,UB,NND,SHISB,R=G	
NGC 6399	Dra		Galaxy S0/a	EF,VS,R
Jun 24 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,R=P	
NGC 6409	Dra		Galaxy	VF,S,R
Jun 24 2003	12.5"	9mmT6	VF,PS,PATCH,UB,R=F	
NGC 6411	Dra		Galaxy E	VS,GBM
Jun 24 2003	12.5"	9mmT6	PB,PL,EL,BNUC,MHISB,L BM,R=G	
NGC 6412	Dra		H41-6 Galaxy SA(s)c	GCL,CL,R,VGBM,RR
Jun 24 2003	12.5"	9mmT6	PB,VL,OVAL-R,FNUC,MHISB,F* IN GLXY,PATCHY AREAS DET,R=G	
Jul 22 1981	12.5"	16mm	R,DIF,SPR STR SUSP,F* 14TH MAG N SIDE,B* FARTHER N	
NGC 6414	Dra		Galaxy S	EEF,PS,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,AV,R=P	
NGC 6418	Dra		Galaxy Sb	EF,PS,R
Jun 24 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,AV COMES AND GOES,LOC GOOD,R=P	
NGC 6419	Dra		Galaxy Sa	EEF,ES,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	MF,PL,EL,PATCH,NND, GRP OF 6,R=F	
NGC 6420	Dra		Galaxy E/S0	EEF,ES,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,NND,COMPANIONS=6422/PGC60553,GRP OF 6,R=F	
NGC 6422	Dra		Galaxy E/S0	EF,PS,R,NRBET 2ST
Jun 24 2003	12.5"	9mmT6	DIF,VF,ML,PATCH,UB,NND,GRP OF 6,COMPANIONS=6420/PGC60553,R=F	
NGC 6423	Dra		Galaxy C	EEF,VS,R,*CLOSE F
Jun 24 2003	12.5"	9mmT6	DIF,EF,PS,PATCH,AV COMES AND GOES,GRP OF 6,CLOSEST TO 6419,R=P	
NGC 6424	Dra		Galaxy Compact	VF,PS,R
Jun 24 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,UB,R=F	
NGC 6434	Dra		H741-3 Galaxy SBbc:	VF,VS,R,STELLAR,*8S
Jun 24 2003	12.5"	9mmT6	MF,MS,EL,*NUC,SHISB,B* CLOSE BY,R=F	

Circumpolar Observations

NGC 6435	Dra		Galaxy Compact	EEF,VS,R,VFD*NR F
Jun 24 2003	12.5"	9mmT6	DIF,PF,PS,OVAL,PATCH,UB,R=F	
NGC 6436	Dra		Galaxy Scd:	EEF,PS,LE,***NR
Jun 24 2003	12.5"	9mmT6	PF,PS,PATCH,UB,NND,3F**S JUST OFF ONE SIDE,R=F	
NGC 6449	Dra		Galaxy Scd:	VF,PS,R
Jun 25 2003	12.5"	9mmT6	PF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 6454	Dra		Galaxy S?	VF,PS,R,LBM
Jun 25 2003	12.5"	9mmT6	MF,MS,PATCH,BNUC,LNUC AREA,PAIR=PGC60781,CLOSE TO 6459,R=F	
NGC 6456	Dra		Galaxy C	EEF,ES,R,VDIFFIC
Mar 26 2006	31"	17mmT4	PF,PS,R,FSNUC,PAIRS=MAC,R=F	
Jun 25 2003	12.5"	9mmT6	EDIF,EF,PS,AV,SUSP,LOC GOOD,GRP OF 5,R=P	
Jun 24 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,UB,AV HOLDS AFTER A WHILE,PAIR=6463,R=P	
NGC 6457	Dra		Galaxy S0-:	F,VS,R,BM
Jun 25 2003	12.5"	9mmT6	PF,MS,OVAL,PATCH,FNUC,SNUC AREA,SBM,R=F	
NGC 6459	Dra		Galaxy Sab	EF,ES,R,R
Jun 25 2003	12.5"	9mmT6	MF,MS,OVAL,FNUC,CLOSE TO 6454,R=F	
NGC 6461	Dra		Galaxy	EF,PS,R,5ST NR
Jul 09 2005	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,R=F	
NGC 6462	Dra		Galaxy E?	F,ES,R,(PLN)
Jun 25 2003	12.5"	9mmT6	MF,MS,R,BNUC,SHISB,LOC IN BARRON * FOV,LNUC,GBM,R=F	
NGC 6463	Dra		Galaxy E	EEF,S,R,VDIFFIC,20F6
Mar 26 2006	31"	17mmT4	MF,MS,R,BLNUC,PAIRS=6472/6477/6470/MAC,R=F	
Jun 25 2003	12.5"	9mmT6	DIF,MV,MS,PATCH,UB,GRP OF 5,R=P	
Jun 24 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,AV,PAIR=6456,R=F	
NGC 6464	Dra		Galaxy Spiral	EEF,PS,R,S OF 4ST
Jun 25 2003	12.5"	9mmT6	DIF,EF,MS,PATCH,UB,NND,R=P	
NGC 6466	Dra		Galaxy	EF,VS,R,BET2ST
Jun 25 2003	12.5"	9mmT6	MF,MS,PATCH,SHISB,TRI F**S SUR GLXY,R=F	
NGC 6471	Dra		Galaxy Scd:	EEF,ES,R,*NR,4TH OF6
Mar 26 2006	31"	17mmT4	PF,MS,EL,UB,NND,CLOSE COMP=MAC,PAIRS=6472/6477/6463,R=F	
Jun 25 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,AV,SUSP,LOC GOOD,GRP OF 5,COMP=6472,R=P	
NGC 6472	Dra		Galaxy SBb	EEF,ES,R,5TH OF6
Mar 26 2006	31"	17mmT4	MB,PS,R,BSNUC,PAIRS=6477/6463/6470/MAC,R=G	
Jun 25 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,UB,CLOSE TO F*,COMPS=6477/6470,GRP OF 5,R=F	
NGC 6474	Dra		Galaxy S	EF,PS,R,N OF3,3ST NR
Jun 25 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,NND,PAIR=PGC60822,R=F	

Circumpolar Observations

NGC 6477	Dra		Galaxy E/S0	EEF,ES,R,*NR,VDIFFIC
Mar 26 2006	31"	17mmT4	PF,VS,OVAL,FSNUC,VF* OFF EDGE,PAIRS=6472/6463/6470/MAC,R=F	
Jun 25 2003	12.5"	9mmT6	VDIF,EF,PS,OVAL,PATCH,UB,AV COMES AND GOES,LOC GOOD,GRP OF 5,COMPS=6472,R=P	
NGC 6478	Dra		Galaxy SAc:	PB,S,VME,SPINDLE
Jun 25 2003	12.5"	9mmT6	MF,ML,PATCH,SHISB,SBM,R=F	
NGC 6479	Dra		Galaxy Sc	EF,PS,R,3ST N
Jun 25 2003	12.5"	9mmT6	PF,MS,PATCH,UB,B* CLOSE BY WASHES OUT GLXY,R=F	
NGC 6488	Dra		Galaxy C	PF,PS,E
Jun 25 2003	12.5"	9mmT6	MF,VS,R,PATCH,2F*S SUR GLXY,R=F	
NGC 6489	Dra		Galaxy Spherical	EEF,PL,LE,BET2ST
Jun 25 2003	12.5"	9mmT6	DIF,EF,VS,PATCH,AV,SUSP,LOC GOOD,R=P	
NGC 6491	Dra		Galaxy Sab	PF,ES,VF*ATT,NP OF 2
Jun 25 2003	12.5"	9mmT6	PF,MS,EL,PATCH,NND,PAIRS=6493/PGC60945,R=R	
NGC 6493	Dra		Galaxy SAB(r)cd:	F,ES,R,(PLN),SF OF 2
Jun 25 2003	12.5"	9mmT6	VF,PS,R,PATCH,NND,F* IN OR SUR GLXY,PAIRS=6491/PGC60945,R=F	
NGC 6497	Dra		Galaxy SB(r)b	EF,PS,LE,*NR N,NPOF2
Jun 25 2003	12.5"	9mmT6	MF,ML,EL,PATCH,UB,NND,SHISB,F* OFF NUC,R=F	
NGC 6503	Dra		Galaxy SA(s)cd	PF,L,ME,*9F4'
Jun 25 2003	12.5"	9mmT6	VB,VL,EL,UB,NND,VHISB,F HALO BEYOND HISB RGN,R=E	
Jul 22 1981	12.5"	16mm	VHISB,EDGE ON,PB,PL,B HALO	
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
NGC 6505	Dra		Galaxy E/S0	EEF,VS,R
Jun 25 2003	12.5"	9mmT6	MF,MS,R,PATCH,UB,R=F	
NGC 6508	Dra		Galaxy E:	VF,S,3ST NR
Jun 25 2003	12.5"	9mmT6	MB,PL,R,FNUC,FS*NUC,R=F	
Jun 20 1980	12.5"	24mm		
NGC 6510	Dra		Galaxy SB	EEF,PS,LE,VDIFFIC
Jun 25 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,UB,AV COMES AND GOES,R=P	
NGC 6512	Dra		Galaxy E?	VF,R,1ST OF 3
Jun 25 2003	12.5"	9mmT6	MF,ML,R,FNUC,SHISB,PAIRS=6516/6521,R=F	
NGC 6515	Dra		Galaxy E	VF,VS,R,2BST NR
Jun 25 2003	12.5"	9mmT6	MF,PS,FNUC,PATCH,FSNUC,SBM,SHISB,R=F	
NGC 6516	Dra		Galaxy Sp	VF,VS,2ND OF3
Jun 25 2003	12.5"	9mmT6	VF,VS,R,PATCH,NND,PAIRS=6512/6521,R=P	
NGC 6521	Dra		Galaxy E	F,PL,3RD OF 3
Jun 25 2003	12.5"	9mmT6	PF,ML,FNUC,SNUC,PATCH,PAIRS=6516/6512,R=F	

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NGC 6532	Dra		Galaxy SAc	EEF,PS,R
Jun 25 2003	12.5"	9mmT6	DIF,VF,ML,EL,UB,R=F	
NGC 6534	Dra		Galaxy S?	EEF,PS,R
Jun 25 2003	12.5"	9mmT6	DIF,EF,PS,PATCH,UB,B* ON EDGE,R=P	
NGC 6536	Dra		Galaxy SB(r)b	VF,PL,R
Jun 25 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,R=F	
NGC 6538	Dra		Galaxy S	EF,VS,LE,BET2EF ST
Jun 25 2003	12.5"	9mmT6	DIF,PF,MS,PATCH,UB,NND,R=F	
NGC 6542	Dra		Galaxy S0/a: sp	EF,S,ME,2ST SP
Jun 25 2003	12.5"	9mmT6	MF,ML,EL,PATCH,NND,R=F	
NGC 6552	Dra		Galaxy SB?	F,PS,IR
Jun 23 2003	12.5"	9mmT6	MB,PL,OVAL,FNUC,MHISB,SLT BM,R=F	
NGC 6562	Dra		Galaxy C	F,PS,R,BM,BET2*
Jun 23 2003	12.5"	9mmT6	MB,ML,R,BNUC,SHISB,BSNUC,R=F	
NGC 6566	Dra		Galaxy E	EF,VS,R,*16NR
Jun 23 2003	12.5"	9mmT6	PF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 6592	Dra		Galaxy E/S0	VF,VS,R
Jun 23 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,UB,NND,R=F	
NGC 6594	Dra		Galaxy S	VF,VS,R
Jun 23 2003	12.5"	9mmT6	MF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 6597	Dra		Galaxy E/S0	VF,VS,R,B*NR
Jun 23 2003	12.5"	9mmT6	MF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 6598	Dra		Galaxy Pec	EF,PS,R
Jun 23 2003	12.5"	9mmT6	MB,PL,R,PATCH,UB,SHISB,R=F	
NGC 6601	Dra		Galaxy E/S0	EF,PS,R
Jul 09 2005	31"	17mmT4	MF,PS,EL,BLNUC,R=F	
Jul 09 2005	31"	17mmT4	MF,PS,EL-OVAL,FLNUC,GMBM,R=F	
NGC 6607	Dra		Galaxy Sb	EF,PS,R,VDIFFIC
Jul 09 2005	31"	17mmT4	VF,MS,EL,PATCH,UB,NND,PAIRS=6608/6609,R=F	
Jun 23 2003	12.5"	9mmT6	EDIF,EF,MS,SUSP,PAIR=6608/6609,R=P	
NGC 6608	Dra		Galaxy Sb	VF,ES,R,VF*NR
Jul 09 2005	31"	17mmT4	MB,PS,R,BLNUC,GMBM,BET 2F*S,PAIRS=6607/6609,R=G	
Jun 23 2003	12.5"	9mmT6	MF,PS,OVAL,PAGTCH,FNUC,SHISB,SMWHT BM,PAIR=6607/6609,R=F	
NGC 6609	Dra		Galaxy Irr	VF,PS,LE,F*NR
Jul 09 2005	31"	17mmT4	VDIF,EF,MS,PATCH,UB,AV,PAIRS=6608/6607,R=P	
Jun 23 2003	12.5"	9mmT6	NO FIND,LOC GOOD,PAIR=6607/6608,R=P	

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NGC 6617	Dra		Galaxy SA(s)d	EEF,PL,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	SUSP,LOC GOOD,CONDITIONS E,R=P	
NGC 6621	Dra		Galaxy Sb: pec	PF,PS,R,LBM,S OF 2
Jul 09 2005	31"	17mmT4	MB,ML,EL,BLNUC,SHISB,TAPERED ENDS,COMP IN EDGE,GMBM,R=G	
Jun 23 2003	12.5"	9mmT6	MB,PL,EL,UB,NND,SHISB,R=F	
NGC 6622	Dra		Galaxy S	PF,PS,R,LBM,N OF 2
Jul 09 2005	31"	17mmT4	MB,MS,R,BLNUC,BM,SHISB,COMP=6621,INTRACT,R=G	
NGC 6636	Dra		Galaxy S?	EEF,PS,R,3*NR
Jun 01 2003	12.5"	9mmT6	DIF,VF,PS,PATCH,UB,AV HOLDS,R=P	
NGC 6643	Dra		Galaxy SA(rs)c	PB,PL,E50,2ST P
Jun 01 2003	12.5"	9mmT6	DIF,MB,VL,OVAL,PATCH,NND,SHISB,R=G	
Jul 22 1981	12.5"	16mm	HISB,ELDIF,*NUC SUSP,B HALO,PB,ML	
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
NGC 6650	Dra		Galaxy C	VF,VS,R
Jun 01 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,UB,NND,R=P	
NGC 6651	Dra		Galaxy SA(r)c	EEF,PS,LE,VDIFFIC
Jun 01 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 6654	Dra		Galaxy (R')SB(s)0/a	*12,13INPB,PL NEBY
Jun 01 2003	12.5"	9mmT6	MB,ML,EL,BNUC,SHISB,LNUC AREA,BSNUC,R=G	
NGC 6654A	Dra		Galaxy SB(s)d pec?	
Jun 01 2003	12.5"	9mmT6	VDIF,EF,PS,EL,PATCH,UB,AV COMES AND GOES,LOC GOOD,R=P	
NGC 6667	Dra		Galaxy SABab? pec	VF,PL,LE,VF D* NR
Jun 01 2003	12.5"	9mmT6	DIF,PF,MS,EL,UB,NND,R=F	
NGC 6670	Dra		Galaxy Triple System	EEF,S,ME,VDIFFIC
Jun 01 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,AV HOLDS,R=P	
NGC 6676	Dra		Galaxy Sbc	EEF,PS,LE,LBM,VDIFFI
Jun 01 2003	12.5"	9mmT6	NO FIND,LOC GOOD,PAIR/IC4763/6677	
Jun 01 2003	12.5"	9mmT6	NO FIND,LOC GOOD	
NGC 6677	Dra		Galaxy Compact	VF,VS,BET*VNR\$VF D*
Jun 22 2003	12.5"	9mmT6	MF,PL,EL,BNUC,BSNUC,CLOSE COMP=6679,PAIR=IC4763,R=F	
Jun 01 2003	12.5"	9mmT6	DIF,VF,PS,OVAL,NUC,SBM,PAIR/IC4763/6676,R=F	
NGC 6679	Dra		Galaxy Spherical	EF,CLOSE DOUBLE
Jun 22 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,AV COMES AND GOES,SUSB,LOC GOOD,COMP=6677,PAIR=IC4763,R=P	
NGC 6687	Dra		Galaxy SAd	EF,PL,R,BET2ST
Jun 22 2003	12.5"	9mmT6	VDIF,VF,ML,PATCH,UB,AV,KEEP B* OUT OF FOV,R=P	
Jun 01 2003	12.5"	9mmT6	NO FIND,LOC GOOD	

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NGC 6689	Dra		Galaxy Sd? sp	VF,PS,*8F7'DIST
Jun 01 2003	12.5"	9mmT6	EDIF,EF,PL,PATCH,AV COMES AND GOES,LOC GOOD,R=P	
NGC 6691	Dra		Galaxy SB(rs)bc	VF,PL,R,PB*S NR
Jun 01 2003	12.5"	9mmT6	DIF,PF,PS,OVAL,PATCH,UB,R=P	
NGC 6696	Dra		Galaxy S	EEF,PL,VDIFFIC
Jul 09 2005	31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,R=F	
NGC 6701	Dra		Galaxy (R')SB(s)a	PB,PS,ME,F*CLOSE F
Jun 01 2003	12.5"	9mmT6	PB,MS,OVAL,BNUC,SHISB,BSNUC,R=G	
NGC 6732	Dra		Galaxy E?	PB,VS,R, F*N
Jun 01 2003	12.5"	9mmT6	MV,MS,OVAL,FNUC,SBM,SHISB MIDDLE,F* OFF ONE EDGE,R=F	
NGC 6747	Dra		Galaxy	EEF,VDIFFIC,PB ST SF
Jun 22 2003	12.5"	9mmT6	DIF,VF,VS,PATCH,*NUC,AV,*,LOC GOOD,R=P	
NGC 6750	Dra		Galaxy Sc	VF,VS,R
Jun 01 2003	12.5"	9mmT6	VDIF,EF,PS,AV COMES AND GOES,LOC GOOD,R=P	
NGC 6757	Dra		Galaxy SB(r)0/a	PF,ME,3F*INV
Jun 01 2003	12.5"	9mmT6	DIF,PF,MS,EL,PATCH,UB,R=P	
NGC 6759	Dra		Galaxy S	VF,S,R,VF D*CLOSE SP
Jun 21 2003	12.5"	9mmT6	MB,MS,PATCH,NND,F* SUR GLXY,R=F	
NGC 6763	Dra		Galaxy S0/a	EF,VS,CE,F*NR
Jun 21 2003	12.5"	9mmT6	MB,ML,EL,FSNUC,SOFT NUC,R=F	
NGC 6764	Cyg		Galaxy SB(s)bc	PF,PL,ME,SEVV*INV
Jun 01 2003	12.5"	9mmT6	DIF,MF,PL,EL,PATCH,NND,R=F	
Jul 06 2002	12.5"	16mm	VDIF,PF,ML,UB,PATCHY	
NGC 6786	Dra		Galaxy SB?	EEF,S,R,2ST NF
Jun 21 2003	12.5"	9mmT6	MB,ML,PATCH,UB,NND,R=F	
NGC 6787	Dra		Galaxy SAB(s)b	EEF,PS,4*SF,E DIFFIC
Jun 21 2003	12.5"	9mmT6	FID,BF,MS,OVAL-R,PATCH,UB,NND,R=F	
NGC 6789	Dra		Galaxy Im	EEF,PL,R,VDIFFIC
Jun 21 2003	12.5"	9mmT6	MF,MS,OVAL,PATCH,UB,NND,R=F	
NGC 6796	Dra		Galaxy Sbc: sp	VF,PS,ME NS
Jun 21 2003	12.5"	9mmT6	MB,VL,EDGE ON,UB,NND,SHISB,R=G	
NGC 6798	Cyg		Galaxy S0	F,VS,R,*VNR
Oct 12 2012	36"	17mmT4	PB,ML,OVAL BLNUC,HISB CNTR,GMBM,R=FG	
Jun 21 2003	12.5"	9mmT6	MB,MS,OVAL-R,BNUC,MHISB,GMBM,R=F	
Jul 06 2002	12.5"	16mm	EDIF,EF,PS,EL,PATCH,COMES AND GOES WITH AV,2F*S OFF ONE EDGE	

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NGC 6801	Cyg		Galaxy SAcd	EF,PS,R,F*S NR
Oct 12 2012	36"	17mmT4	MB,ML,OVAL,UB,NND,SHISB,F* CLOSE TO NUC AREA,R=FG	
Jun 21 2003	12.5"	9mmT6	MB,ML,OVAL,*NUC,VF* IN GLXY AND SUR GLXY,R=F	
NGC 6817	Dra		Galaxy Sbc	EEF,PS,LE
Jul 09 2005	31"	17mmT4	MF,PS,OVAL,FLNUC,2-3VF*S ON EDGE,PATCH OR PART DET OFF CNTR,R=F	
NGC 6824	Cyg		H878-2 Galaxy SA(s)b:	PB,IF,BM
Oct 12 2012	36"	17mmT4	MB,ML,OVAL,LNUC,MHISB,VF* OUTER EDGE IN GLXY,GRADUALLY BIN CNTR,R=FG	
Jun 21 2003	12.5"	9mmT6	VB,VL,BNUC,VHISB,F* OFF TO EDGE,BLNUC,GMBM,R=E	
Jul 06 2002	12.5"	16mm	DIF,PF,MS,OVAL PATCH,UB,12MAG * CLOSE BY	
NGC 6825	Dra		Galaxy C	EF,VS,VDIFFIC,F*NR
Oct 12 2012	36"	17mmT4	PF,PS,OVAL,UB,NND,* NUC OR VF* CLOSE TO CNTR OF GLXY,R=F	
Jun 21 2003	12.5"	9mmT6	MF,PS,R,FNUC,F* OFF ONE SIDE,R=F	
NGC 6829	Dra		Galaxy Sb	EF,PS,R,PB*NR S,POF2
Oct 12 2012	36"	17mmT4	MF,ML,EL,NND,SHISB,* OFF CNTR,R=F	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,PS,EL,UB,NND,PAIR=6831,R=P	
NGC 6831	Dra		Galaxy S0	EF,S,R,F OF 2
Oct 12 2012	36"	17mmT4	MF,ML,OVAL,FLNUC,SHISB,R=F	
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL,FNUC,SMWHT BM,SNUC DET,PAIR=6829,R=F	
Jun 21 2003	12.5"	9mmT6	MF,ML,R,FNUC,SHISB,FSNUC,R=G	
NGC 6869	Dra		Galaxy S0	PB,PS,R
Oct 12 2012	36"	17mmT4	MB,ML,R,BLNUC,MHISB,GRAN HALO SUR NUC,R=FG	
Jun 22 2003	12.5"	9mmT6	PB,PL,OVAL,UB,MHISB,R=G	
NGC 6911	Dra		Galaxy SBb:	EF,L,LBM,PB*NR
Oct 12 2012	36"	17mmT4	VF,PL,PATCH,NND,CLOSE TO *,R=PF	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,VS,PATCH,NND,AV COMES AND GOES,R=P	
NGC 6916	Cyg		Galaxy SBbc	EEF,PS,F*NR P,VDIFFI
Oct 12 2012	36"	17mmT4	MF,ML,OVAL,VSFT NUC,F* IN PLAIN OF GLXY,R=F	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,UB,NND,AV COMES AND GOES,2F*S IN GLXY,R=P	
NGC 6946	Cep		H76-4 Galaxy SAB(rs)cd	VF,VL,VG,VSBM,RR
Sep 12 2012	36"	17mmT4	PB,VL,BNUC,SPR ARMS,KNOTS IN ARMS DET,H2 RGN DET,R=E	
Jun 22 2003	12.5"	9mmT6	VB,EL,R,NND,SHISB,AREAS OF PATCHES DET,SVRL *S IN GLXY,R=E	
Jul 09 1983	12.5"	24mm	MF,VL,OVAL,3B*S TO ONE SIDE,SVRL F*S IN GLXY,SPR STR SUSP,PAIR/6939	
Aug 14 1982	12.5"	16mm	EDIF,MF,PL,PATCHY,OVAL,NND,*S IN GLXY,SEE CARD FOR DRAWING	
Jun 06 1981	12.5"	16mm	DIF,VL,MB,SOME SPR STR DET,FACE ON,SEVEAL *S IN GLXY,RESEMBLES M33	
Aug 19 1980	12.5"	32mm	VF,COULD NOT FIND IN 24MM	
NGC 6949	Cep		Galaxy S?	EF,PS,IR
Sep 12 2012	36"	17mmT4	MF,MS,OVAL,SNUC,SHISB CNTR,SLT BM,* OR *S IN CNTR,R=F	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,ML,OVAL,PATCH,UB,NND,AV,LOC IN RICH * FOV,R=P	

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NGC 6952	Cep		Galaxy SAB(rs)bc	PB,OVAL,DIF,*15NR F
Sep 12 2012	36"	17mmT4	MB,MS,OVAL,BSNUC,F HALO SUR NUC,SOME SPR STR,HISB CNTR,3 VF*S IN ARMS,R=G	
Jun 22 2003	12.5"	9mmT6	MB,PL,OVAL,BNUC,SHISB,SBM,AREAS OF B RGN SUR NUC,R=G	
Jul 06 2002	12.5"	16mm	VDIF,VF,MS,PATCH,OVAL,F* ONE SIDE	
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,OVAL,SBM,* TO W SIDE	
Aug 14 1982	12.5"	16mm	BAR MAYBE SUSP	
Aug 14 1982	12.5"	24mm	DIF,MF,MS,BNUC,R,F* OFF E SIDE	
Jun 06 1981	12.5"	16mm	DIF,MF,ML,DNUC,F HALO,14* IN OR SUR GLXY	