

Circumpolar Observations

IC 10	Cas		Galaxy IBm	
Sep 11 2004	31"	17mmT4	VF,MS,OVAL,PATCH,UB,SEVERAL *S IN GAL,R=P	
IC 1027	Boo		Galaxy S	
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,SMALL FNUC,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,SMALL FNUC,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,LARGE FNUC,SHISB,R=F	
IC 1069	Boo		Galaxy S0	
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,LARGE FNUC,R=F	
IC 1074	Boo		Galaxy S	
Apr 14 2004	31"	17mmT4	DIF,MF,MS,ELONG,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* SURROUNDS GAL,R=P	
IC 1100	Dra		Galaxy S?	VF,PS,1E,BET 2 ST
Mar 04 2006	31"	17mmT4	MB,MS,OVAL,LARGE NUC,GMBM,MOD HISB MIDDLE,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,SOMEWHAT HISB,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,LARGE FNUC,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,SMALL FNUC,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,ELONG,FNUC,SMALL SOFT NUC,R=F
IC 1211	Dra		Galaxy E
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL,BNUC,LARGE NUC AREA,R=F
IC 1212	Dra		Galaxy
Jun 21 2003	12.5"	9mmT6	MF,MS,R,FNUC,B* IN FOV,SMALL NUC,PAIR=PGC57677,R=F
IC 1214	Dra		Galaxy S0/a
Jun 21 2003	12.5"	9mmT6	MF,MS,ELONG,*NUC,FAINT * NUC,F* JUST OUTSIDE OF GAL,R=F
IC 1215	Dra		Galaxy SB?
Jun 21 2003	12.5"	9mmT6	PF,MS,PATCH,UB,NND,MOD HISB,PAIRS=IC1216/IC1218,R=F
IC 1216	Dra		Galaxy Scd:
Jun 21 2003	12.5"	9mmT6	DIF,VF,PS,ELONG,PATCH,UB,NND,PAIRS=IC1215/IC1218,R=P
IC 1218	Dra		Galaxy S?
Jun 21 2003	12.5"	9mmT6	VF,MS,ELONG,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,LARGE BNUC,SOMEWHAT HISB MIDDLE,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,ELONG,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,VERY CLOSE COMP=PGC60325,OTHER PAIRS PRESENT,BRIGHTEST OF GROUP,R
IC	1261	Dra		Galaxy E
	Jun 23 2003	12.5"	9mmT6	DIF,VF,VS,PATCH,AV,ELONG,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,ELONG,LARGE BNUC,HISB MIDDLE,R=FG
	Jun 24 2003	12.5"	9mmT6	MF,PS,PATCH,*NUC,SHISB,2F*S ON EDGE OF GAL,SOMEWHAT BM,STELL NUC SUSP,R=F
IC	2166	Lyn		Galaxy SAB(s)bc
	Feb 17 2004	31"	17mmT4	MB,VL,OVAL,PATCH,VERY LARGE FNUC,F* OFF ONE SIDE,SLIGHTLY BM,R=G
IC	2174	Cam		Galaxy SBa
	Feb 01 2005	31"	17mmT4	MB,PL,ELONG,PATCH,LARGE FNUC,VF* IN NUC,R=F
	Jan 30 2005	31"	17mmT4	PF,MS,ELONG,PATCH,UB,NND,PAIR=2314,R=F
IC	2179	Cam		Galaxy E1-2
	Feb 01 2005	31"	17mmT4	VB,PL,R,LARGE BNUC,MOD HISB,GMBM,HISB MIDDLE,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,ELONG,SMALL BNUC,MOD HISB MIDDLE,CENTRAL 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 REGION,IRR IN SHAPE,PAIR=MAC,R=F
IC	2600	UMa		Galaxy S
	Feb 05 2005	31"	17mmT4	PF,MS,ELONG,PATCH,UB,NND,B* IN FOV,PAIRS=IC2601/MAC,R=F
IC	2601	UMa		Galaxy S
	Feb 05 2005	31"	17mmT4	PF,MS,OVAL,SMALL FNUC,SOMEWHAT BM,PAIRS=IC2600/MAC,R=F
IC	2943	UMa		Galaxy Sa?
	Apr 04 2005	31"	17mmT4	PB,ML,OVAL,LARGE FNUC,PAIR=3759,R=F
IC	334	Cam		Galaxy S?
	Jan 30 2003	12.5"	9mmT6	VB,VL,R,SNUC,MOD HISB,FACE ON,F* IN GAL.SMALL * 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 & BRT,HINT OF H2 REGION
IC	356	Cam		Galaxy SA(s)ab pec
	Jan 30 2003	12.5"	9mmT6	PB,VL,OVAL,FNUC,SMALL NUC,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* SIMILAR MAG.BG GLOW,R=E
	Jan 30 2003	12.5"	9mmT6	DIF,MF,PL,OVAL,PATCH,UB,NND,F*IN GAL,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,SMALL NUC,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,LARGE FNUC,R=F
IC	445	Cam		Galaxy S0?
	Jan 30 2005	31"	17mmT4	MF,MS,R,VSBRT NUC,SMBM,STELLAR NEC,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,ELONG,SBNUC,BMBM,R=G

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IC 450	Cam	Galaxy SAB0+:	
Jan 30 2005	31"	17mmT4	MF,PS,R,SMALL BNUC,OTHERS,R=F
IC 451	Cam	Galaxy SAB(r)b:	
Jan 30 2005	31"	17mmT4	PF,MS,ELONG,SMALL FNUC,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 MIDDLE,GMBM,NGC2340 CLUSTER,R=G
Jan 30 2005	31"	17mmT4	PB,MS,R,BNUC,GMBM,NGC2340 CLUSTER,R=G
IC 459	Lyn	Galaxy C	
Feb 01 2005	31"	17mmT4	PF,PS,OVAL,UB,NND,NGC2340 CLUSTER,R=F
IC 460	Lyn	Galaxy	
Feb 01 2005	31"	17mmT4	PF,MS,OVAL,SMALL BNUC,NGC2340 CLUSTER,R=F
IC 461	Lyn	Galaxy S	
Feb 01 2005	31"	17mmT4	PF,MS,ELONG,LARGE FNUC,NGC2340 CLUSTER,R=F
IC 464	Lyn	Galaxy E?	
Feb 01 2005	31"	17mmT4	PB,MS,ELONG,LARGE FNUC,MOD HISB,NGC2340 CLUSTER,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,FAINT GLOW BETWEEN 2F*S,CLUSTER 5 OF 5,R=P
IC 465	Lyn	Galaxy S?	
Feb 01 2005	31"	17mmT4	MB,MS,OVAL,SMALL FNUC,SMBM,STELLAR LIKE NUC,NGC2340 CLUSTER,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 GAL,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,VERY CLOSE TO A F*,R=P
IC 4763	Dra	Galaxy S?	
Jun 22 2003	12.5"	9mmT6	DIF,MF,PL,ELONG,NND,PAIR=6677/6679,R=F
Jun 01 2003	12.5"	9mmT6	VDIF,VF,VS,ELONG,UB,NND,PAIR/6677/6676,R=P

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IC 4867	Cyg		Galaxy S0
May 16 2004	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,PAIRS=6783/OTHERS,R=G
Jun 21 2003	12.5"	9mmT6	MB,PS,R,BNUC,MOD HISB,LARGE BRT NUC,GBMB,COMP=PGC63211,R=G
IC 499	Cam		Galaxy Sa
Sep 06 2002	12.5"	9mmT6	DIF,MF,PL,ELONG,SBM,OVAL,LARGE NUC AREA
IC 511	Cam		Galaxy S0/a:
Feb 01 2005	31"	17mmT4	MF,MS,ELONG,SMALL BNUC,MOD HISB,SMALL 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,SMALL BNUC,MOD HISB,PAIR=PGC24978,R=G
IC 522	UMa		Galaxy S0
Feb 04 2005	31"	17mmT4	MB,PS,R,LARGE BNUC,SHISB,R=G
IC 529	Cam		Galaxy SA(s)c:
Mar 26 2003	12.5"	9mmT6	DIF,PF,EL,OVAL,PATCH,UB,NND,SHISB,LARGE FACE ON,R=G
IC 644	UMa		Galaxy S EEF,PS,1E,B*SF,SP OF 2
Feb 05 2005	31"	17mmT4	MB,ML,EDGE ON,SMALL FNUC,F* ON TIP,SHISB MIDDLE,GBM,PAIR=3398/OTHERS,R=G
IC 691	UMa		Galaxy I?
Apr 03 2005	31"	17mmT4	PF,VS,R,SMALL FNUC,R=F
IC 694	UMa		Galaxy SBm? pec
Apr 07 2008	31"	17mmT4	VF,PL,R,LARGE BNUC,HISB MIDDLE,PAIRS=3690/PGC35345,R=G
Apr 03 2005	31"	17mmT4	PB,MS,ELONG,SMALL BNUC,HISB MIDDLE,INTERACTING=3690,PAIRS=PGC/MAC,R=G
Mar 15 1985	12.5"	16mm	INTERACTING WITH 3690
IC 705	UMa		Galaxy C
Apr 03 2005	31"	17mmT4	MF,PS,R,SMALL BNUC,R=F
IC 758	UMa		Galaxy SB(rs)cd:
Mar 06 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,AV ONLY,COMES AND GOES,LOCATION GOOD,R=P
IC 801	CVn		Galaxy Sa?
Mar 04 2006	31"	17mmT4	MF,MS,R,LARGE BNUC,MOD HISB,BM,R=G
IC 830	UMa		Galaxy S?
Mar 26 2006	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,GMBM,MOD HISB MIDDLE,R=G
IC 836	Dra		Galaxy S
Feb 23 2006	31"	17mmT4	MF,MS,ELONG,SMALL FNUC,F* OFF NUC,* OFF TIP,SOMEWHAT HISB,TAPPED ENDS,R=G
IC 852	UMa		Galaxy S0-:
Apr 14 2004	31"	17mmT4	PF,PS,OVAL,LARGE FNUC,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,SMALL BNUC,SBM,R=F	
IC 907	UMa		Galaxy SB?b	
Apr 03 2005	31"	17mmT4	PF,MS,EDGE ON,VERY SMALL FNUC,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,LARGE FNUC,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,VERY FNUC,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,CENTRAL BULGE,R=G	
Sep 06 2002	12.5"	9mmT6	MB,ML,ELONG,SOMEWHAT EDGE ON,HISB MIDDLE,GMBM,CENTRAL 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,LARGE BRT NUC,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 GAL,SMALL NUC,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 GAL,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,MOD HISB,TAD POLE SHAPE,F*IN EDGE,DUST LANE SUSP,R=G	
Oct 03 1981	12.5"	16mm	MF,PS,ELONG,SOUTH 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,LARGE BNUC,MUCH BM,HISB MIDDLE,PAIRS=PGC'S,R=G	
Jan 30 2003	12.5"	9mmT6	PB,ML,OVAL,BNUC,SHISB,LARGE NUC REGION,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 GAL,CLUSTER 1 OF 8,R=G	
Dec 21 1981	12.5"	16mm	DIF,VF,PS,PATCHY,SBM,F* JUST BESIDE NUC,LINE OF 2F*S TO S	
Oct 03 1981	12.5"	16mm	MF,PL,F*E SIDE,NNS,PATCHY,SLIGHTLY OVAL,F* S PART OF GAL	
Sep 18 1980	12.5"	24mm		
NGC 2128	Cam		Galaxy S0-	VF,VS,VLE
Dec 15 2004	12.5"	12mmT4	PF,MS,R,LARGE FNUC,SOMEWHAT HISB,R=F	
NGC 2146	Cam		Galaxy SB(s)ab pec	PB,2'L,LE
Nov 24 2003	31"	17mmT4	PB,EL,OVAL,SMALL BNUC,LARGE DIFF ARMS,DUST LANE DET ONE SIDE OF NUC,R=E	
Oct 03 1981	12.5"	16mm	DIF,MB,PL,ELONG,3*S SE OF GAL,PATCHY,BRIGHTNESS VARIES,NND,OVAL SHAPE	
Sep 18 1980	12.5"	24mm		
Dec 21 1981	12.5"	24mm	MB,PL,ELONG,HISP,SBM,CENTRAL BULGE DET,CLUSTER 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,ELONG,LARGE BNUC,HISB MIDDLE,R=G	
NGC 2256	Cam		Galaxy SAB0-?	F,R,*9.5 3'SF
Jan 30 2005	31"	17mmT4	MB,ML,ELONG,LARGE FNUC,SOFT MIDDLE,PAIRS=MAC,R=G	
NGC 2258	Cam		Galaxy SA(r)0^	F,2*10,11F
Jan 30 2005	31"	17mmT4	VB,PL,ELONG,LARGE FNUC,MOD HISB MIDDLE,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 GAL	
Oct 03 1981	12.5"	16mm	EDIF,MF,PL,ELONG,SOMEWHAT 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,SMALL BNUC,HISB MIDDLE,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,BRT * ON EDGE,SOMEWHAT HISB THROUGHOUT,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,MOD HISB,BM,PAIR/2276/IC455	

Circumpolar Observations

NGC 2314	Cam		Galaxy E3	VF,S,R
Feb 01 2005	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,HISB,R=G	
Jan 30 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,HISB MIDDLE,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,LARGE BNUC,HISB MIDDLE,PAIRS=PGC20054/MAC,R=G	
NGC 2320	Lyn		H861-2 Galaxy E	PB,S,IR,GBM,*8SP
Feb 17 2004	31"	17mmT4	MF,PL,OVVAL,LARGE BNUC,HISB MIDDLE,GMBM,PAIR=2322,R=G	
NGC 2321	Lyn		Galaxy SBa	VF,12'N OF2320
Feb 17 2004	31"	17mmT4	MF,PL,ELONG,LARGE FNUC,R=F	
NGC 2322	Lyn		H874-3 Galaxy SBa:	VF,VS,LE
Feb 17 2004	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,MOD HISB MIDDLE,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,OVVAL,LARGE FNUC,SLIGHTLY 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,SMALL BNUC,PAIR=2332,R=F	
NGC 2332	Lyn		H862-2 Galaxy S0:	F,S,R,PSBM
Jan 30 2005	31"	17mmT4	MF,MS,ELONG,LARGE BNUC,MOD HISB,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 BRT	
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,ELONG.LARGE FNUC,MOD HISB MIDDLE,NGC2340 CLUSTER,R=G	
Jan 30 2005	31"	17mmT4	MB,VL,ELONG,PATCH,UB,NND,NGC2340 CLUSTER,R=G	
NGC 2347	Cam		H746-3 Galaxy (R')SA(r)b:	VF,S,R,LBM
Feb 01 2005	31"	17mmT4	PB,VL,OVVAL,LARGE FNUC,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,OVVAL,SMALL FNUC,SOMEWHAT BM,COMP=2366,R=P	
NGC 2366	Cam		H748-3 Galaxy Irr	VF,PL,MBM,CVEDTAILS
Feb 01 2005	31"	17mmT4	MF,EL,SMALL BNUC,IRR,FARM'S OFF ONE SIDE,2 NUC DET,SMALL B,SMALL F,COMP=2363,R=F	
Dec 21 1981	12.5"	24mm	EDIF,EF,ML,ELONG,SMALL BNUC	
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, SMALL BNUC, LARGE OVAL PATCH, SOME STR SUSP, B*S IN GAL	
Sep 18 1980	12.5"	24mm		2*S IN GAL PRESENT	
NGC 2426	Lyn		H822-2	Galaxy E	CF,R,VGBM,R,*8P
Feb 01 2005	31"	17mmT4		VB, ML, R, BNUC, HISB, GMB, BRT CORE 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, SMALL FNUC, MOD HISB, INTERACTING=2429B, * IN TIP, BROKEN AREAS, R=G	
NGC 2429B	Lyn			Galaxy Sbc	
Feb 01 2005	31"	17mmT4		EF, VS, INTERACTING=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, SMALL FNUC, GRAD BM, SOMEWHAT HISB MIDDLE, 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, ELONG, SMALL BNUC, MOD HISB, SMBM, 2*S BOTH SIDES, KNOTS, PATCHY AREAS, MAC, R=	
NGC 2456	Lyn			Galaxy E	VF,R,VGBM
Feb 01 2005	31"	17mmT4		MF, PL, R, LARGE FNUC, LARGE 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, LARGE BNUC, 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, SMALL NUC, SLIGHTLY BM, PAIR=2458, R=F	
NGC 2462	Lyn			Galaxy	VF,VS,VLBM
Feb 17 2004	31"	17mmT4		MF, PS, OVAL, LARGE FNUC, SBM, PAIR=2463, R=F	
NGC 2463	Lyn			Galaxy	EF,R
Feb 17 2004	31"	17mmT4		MF, PS, OVAL, LARGE BNUC, SMBM, SOMEWHAT HISB MIDDLE, PAIR=2462, R=F	
NGC 2468	Lyn			Galaxy SA0:	F,R,BM
Feb 17 2004	31"	17mmT4		MF, MS, ELONG, LARGE NUC, INTERACTING=MAC, SHISB MIDDLE, R=F	

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NGC 2469	Lyn		H836-3	Galaxy Sbc pec:	F,VS,R,*9SF
Feb 01 2005	31"	17mmT4		MB,PL,OVAL,LARGE FNUC,MOD HISB,PAIR=2473,R=G	
Feb 17 2004	31"	17mmT4		MB,MS,OVAL,HISB MIDDLE,LARGE BNUC AREA THAT IS ELONGATED,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,SMALL BNUC,COMP=2474,MOD HISB MIDDLE,R=G	
NGC 2475	Lyn			Galaxy E1	DNEB W/2474
Feb 17 2004	31"	17mmT4		MB,MS,OVAL,LARGE BNUC,COMP=2474,HISB MIDDLE,R=G	
NGC 2488	Lyn		H837-3	Galaxy S0-:	VF,VS,R,GLBM
Feb 17 2004	31"	17mmT4		MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIR=PGC22533,R=G	
NGC 2497	Lyn		H838-3	Galaxy E?	EF,VS
Feb 17 2004	31"	17mmT4		MB,ML,LARGE BNUC,MOD HISB MIDDLE,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,STELL 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,SMALL FNUC,FAINT HALO OF ARMS,R=F	
NGC 2518	Lyn			Galaxy E-S0	2NEB,F,L,R,GBM
Feb 01 2005	31"	17mmT4		MF,MS,SMALL BNUC,SOMEWHAT HISB MIDDLE,PAIR=MAC,R=F	
NGC 2521	Lyn			Galaxy SA0- pec?	PF,PL,R,PSBM,*9NP3'
Feb 01 2005	31"	17mmT4		MB,MS,OVAL,LARGE BNUC,BMBM,MOD HISB,PAIRS=PGC'S,R=G	
NGC 2523	Cam			Galaxy SB(r)bc	PB,PL,LE,LBM,*NR
Feb 01 2005	31"	17mmT4		VF,VL,ELONG,LARGE BNUC,MOD HISB,BRT BAR LIKE NUC,GMBM,HALO AROUND 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,SMALL FNUC,F* IN NUC,CENTRAL BULGE,R=F	
NGC 2523C	Cam			Galaxy E?	
Feb 01 2005	31"	17mmT4		PF,PS,OVAL,SMALL FNUC,R=F	
NGC 2534	Lyn		H840-3	Galaxy E1? pec	PF,PL,R,PSBM,*8S
Feb 01 2005	31"	17mmT4		MB,MS,LARGE BNUC,SHISB MIDDLE,HALO AROUND NUC,R=G	
NGC 2544	Cam			Galaxy SB(s)a:	EEF,PS,R,SEVB*AROUND
Feb 01 2005	31"	17mmT4		MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIR=PGC23462,R=F	
NGC 2549	Lyn			Galaxy SA(r)0^ sp	PB,S,ME0,PSMBM
Feb 17 2004	31"	17mmT4		PB,PL,ELONG,VERY BNUC,MHISB,HISB MIDDLE,LARGE HALO OF ARMS,PAIR=MAC,R=E	

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NGC 2550	Cam		Galaxy Sb:	EEF,PS,CE
Feb 01 2005	31"	17mmT4	MB,MS,ELONG,UB,NND,MOD HISB,F* ON TIP,R=G	
NGC 2550A	Cam		Galaxy Sc	
Feb 01 2005	31"	17mmT4	MB,PL,OVAL,PATCH,UB,NND,MOD HISB,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,BROKEN PATCHES,SEVERAL F*S IN GAL,R=F	
NGC 2591	Cam		Galaxy Scd: sp	F,S,E,LBM
Feb 01 2005	31"	17mmT4	MB,ML,EDGE ON,UB,NND,SHISB,CENTRAL BULGE,F* OFF ONE TIP,R=G	
NGC 2600	UMa		Galaxy Sb	NO DESCRIP
Oct 25 2006	31"	17mmT4	PF,MS,ELONG,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,LARGE FNUC,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,LARGE BNUC,HISB,PAIR=2641,R=G	
NGC 2630	UMa		Galaxy Sbc	2VF,VS,V NR 2629
Feb 01 2005	31"	17mmT4	PF,MS,ELONG,PATCH,UB,NND,R=F	
NGC 2633	Cam		Galaxy SB(s)b	F,S,LE
Feb 04 2005	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,SHISB,B* IN NUC,GMBM,NGC2633 GROUP,R=F	
Sep 18 1980	12.5"	24mm		
NGC 2634	Cam		Galaxy E1:	F,S,LE
Feb 04 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,GMBM,SHISB,NGC2633 GROUP,R=G	
NGC 2634A	Cam		Galaxy SB(s)bc? sp	
Feb 04 2005	31"	17mmT4	MF,ML,EDGE ON,UB,NND,NGC2633 GROUP,R=F	
NGC 2636	Cam		Galaxy E0:	VF,S,2*11,12 F
Feb 04 2005	31"	17mmT4	MF,MS,R,SMALL BNUC,SOMEWHAT HISB MIDDLE,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,ELONG,SBM,NO *S,FORMS TRI WITH 2 OTHER *S	
Dec 03 1980	12.5"	24mm		

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NGC 2641	UMa		H983-3	Galaxy S0:	VF,S,STELLAR
Feb 01 2005	31"	17mmT4	MF,MS,R,LARGE	FNUC,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,LARGE	FNUC,VF* OFF ONE EDGE,BM,MOD HISB MIDDLE,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,LARGE	BNUC,LOC IN TRI OF *S,HISB MIDDLE,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 GAL DIA,	ARMS MORE PRODOMENANT	
Oct 16 1982	12.5"	16mm	MB,MS,BNUC,	GMBM,OBLONG,DIM HALO	
Dec 21 1981	12.5"	16mm	PB,ML,R,BM,	HISB	
Sep 18 1980	12.5"	24mm			
NGC 2656	UMa			Galaxy SA0- pec:	EF,PSBM
Feb 01 2005	31"	17mmT4	PF,MS,OVAL,	PATCH,SMALL FNUC,R=F	
NGC 2675	UMa			Galaxy E	VF,R,*15P 12S
Feb 04 2005	31"	17mmT4	MB,MS,R,LARGE	BNUC,SHISB MIDDLE,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,LARGE CENTRAL REGION,TAPPERED ENDS,FAINT GLOW AROUND NI	
NGC 2692	UMa		H831-3	Galaxy SBab:	VF,S,R,PSBM
Feb 04 2005	31"	17mmT4	MB,PS,OVAL,R,	LARGE BNUC,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,LARGE	BNUC,MOD HISB,PAIR=2694,R=G	
Mar 15 1985	12.5"	12mm	DIF,VF,VS,	SMALL 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,ELONG,	PATCH,UB,NND,R=G	

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NGC 2715	Cam		Galaxy SAB(rs)c	PB,L,E
Mar 06 2003	12.5"	9mmT6	PB,VL,OVAL,PATCH,NND,SOMEWHAT HISB,PATCHES & AREAS OF VAR BRT,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,MOD HISB,VF* IN GAL,SOMEWHAT BROKEN,R=G	
NGC 2732	Cam		Galaxy S0 sp	PB,S,E45,*13NF
Mar 26 2003	12.5"	9mmT6	MB,PL,ELONG,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 GAL,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,MOD HISB,PATCHY,SPR STR SUSP,R=E	
Mar 15 1985	12.5"	16mm	DIF,PF,PS,PATCHY-OVAL,NND,UB,3F*S TO S 1 GAL DIA	
Oct 16 1982	12.5"	16mm	TRI OF 3F*S OFF TO E	
Oct 16 1982	12.5"	24mm	DIF,MF,ML,UB,OVAL,SAME 24MM FIELD W/2768	
NGC 2742A	UMa		Galaxy SB(s)b pec?	
Mar 06 2003	12.5"	9mmT6	MF,ML,OVAL,PATCH,NND,SLIGHTLY 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,LARGE NUC AREA,MOD HISB MIDDLE,PAIR=PGC25755,R=G	
Jan 08 2003	12.5"	9mmT6	MB,ML,SMOD HISB,PATCH,OVAL,UB,COMP SUSP	
NGC 2762	UMa		Galaxy S	VVF,S,R,1ST OF 4
Dec 07 2005	31"	17mmT4	VF,MS,ELONG,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,STELL NUC,HISB MIDDLE,MOD HISB ARMS,R=E	
Mar 15 1985	12.5"	16mm	MB,PL,OVAL,PATCHY,MOD HISB TOWARDS MIDDLE,NO *S	
Oct 16 1982	12.5"	12mm	MB,ML,2F*S OFF TO S,2B*S ON BOTH SIDES,ELONG,MBM,TAPPERED,BNUC	
Dec 03 1980	12.5"	24mm		
NGC 2769	UMa		Galaxy Sa	PF,S,E,PSLBM,3RD OF 4
Mar 06 2003	12.5"	9mmT6	B,ML,ELONG,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,MOD HISB,PAIR/2769/2767,R=F	

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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 GAL ARMS,GBM,SPR STR SUSP,R=E		
Mar 15 1985	12.5"	12mm	SAME,F* IN E SIDE NOT DET		
Oct 16 1982	12.5"	12mm	R,GMBM,ANOTHER F* IN EASTERN PART		
Oct 16 1982	12.5"	16mm	MB,MS,BNUC,OVAL,F* IN S PART,HISB MIDDLE		
NGC 2800	UMa		H832-3	Galaxy E	VF,S,LE,*ATT,*INV
Mar 26 2003	12.5"	9mmT6	PB,MS,OVAL,NND,BRT * IN GAL,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 FAINT NUC,OVAL		
NGC 2810	UMa		H749-3	Galaxy E	F,CS,BM
Apr 14 2004	31"	17mmT4	MB,ML,R,LARG BNUC,HISB MIDDLE,R=G		
NGC 2814	UMa		H868-2	Galaxy Sb:	F,S,IF,1ST OF 2
Apr 14 2004	31"	17mmT4	MB,ML,ELONG,LARGE FNUC,SHISB,PAIRS/IC2458/2820,R=G		
Jan 08 2003	12.5"	9mmT6	MF,PL,ELONG,OVAL,NND,SLIGHTLY 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 BROKEN,NND,SOMEWHAT HISB,PAIR/IC2458/2814		
NGC 2841	UMa		H205-1	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
Apr 14 2004	31"	17mmT4	VB,EL,ELONG,LARGE BNUC,HISB,LARGE AREA OF ARMS,DUST SUSP,* IN TIP,R=E		
Mar 15 1985	12.5"	12mm	SAME,ALL *S PRESENT		
Oct 16 1982	12.5"	12mm	FAINTER * OFF NE,SAME		
Oct 16 1982	12.5"	16mm	VB,ML,ELONG,BNUC,F* IN N TIP,F*NW,GMBM,DIF HALO,VF*N		
Dec 03 1980	12.5"	24mm			
NGC 2870	UMa		H846-3	Galaxy Sbc	CF,S,E,VGLBM
Apr 14 2004	31"	17mmT4	MF,ML,ELONG,UB,F* IN TIP,SLIGHTLY BM,R=G		
NGC 2880	UMa		H260-1	Galaxy SB0-	B,CS,R,MBM,AM ST
Apr 14 2004	31"	17mmT4	PB,ML,R,LARGE BNUC,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,LARGE BNUC,HISB MIDDLE,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,STELLAR 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 GAL,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,LARGE BNUC,SEVERAL F*S ON EDGE OF HALO,HISB MIDDLE,GMBM,R=G	
Mar 15 1985	12.5"	12mm	SAME,PF,VS,BNUC,R,BM,NO *S CLOSE IN	
Oct 16 1982	12.5"	12mm	MF,PS,BNUC,* OFF NW SEVERAL GAL DIA,GMBM,OVAL	
Dec 03 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
NGC 2957A	Dra		Galaxy E1:	EF,*13NR
Apr 14 2004	31"	17mmT4	MF,PS,PATCH,UB,NND,INTERACTING,CAN JUST BARELY SPLIT THE TWO,R=F	
NGC 2957B	Dra		Galaxy E	
Apr 14 2004	31"	17mmT4	MF,PS,PATCH,SMALL FNUC,INTERACTING,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,LARGE BNUC,PAIR=2961,R=G	
NGC 2961	UMa		Galaxy Sb:	CF,S,LE,NF2959
Apr 14 2004	31"	17mmT4	PF,ML,ELONG,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,MOD HISB,VERY UNIQUE IN APPEARANCE,3*S AROUND EDGE,RECT,R=E	
Mar 15 1985	12.5"	16mm	IRR,DIF,PF,VL,ELONG,PATCH,F* S EDGE BY NUC,UB	
Mar 27 1981	12.5"	24mm		
Dec 03 1980	12.5"	24mm	F* IN OUTER ARM REGION	
Aug 22 1980	12.5"	24mm		
NGC 2977	Dra	H282-1	Galaxy Sb:	CB,PL,IF,
Apr 14 2004	31"	17mmT4	MF,ML,OVAL,PATCH,LARGE FNUC REGION,SHISB MIDDLE,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,LARGE BNUC,MOD HISB,HISB MIDDLE,R=E	
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,F*E SIDE,R,VMBM	
Dec 03 1980	12.5"	24mm	F* IN ARM REGION	
Aug 22 1980	12.5"	24mm		
NGC 3027	UMa	H23-5	Galaxy SB(rs)d:	VF,VL,LE,R
Apr 14 2004	31"	17mmT4	DIF,MF,VL,ELONG,PATCH,NND,BAR IN GAL SUSP,CENTRAL AREA,R=F	

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NGC 3031	UMa	M81	Galaxy SA(s)ab	EB,EL,E156,GSVMBMBN 2	
Jan 29 2014	36"	17mmT4	M81,EB,EEL,OVAL,VERY LBNUC,HISB,FT ARMS ARCHING AROUND NUC,FILLS FOV,MANY *S IN C		
Mar 08 2013	36"	17mmT4	MESSIER MARATHON 2013		
Feb 04 2005	31"	17mmT4	EB,EL,ELONG,LARGE BNUC,HISB,TIGHT CORE,ARMS,R=E		
Apr 14 2004	31"	17mmT4	EF,EL,LARGE BNUC,HISB,M81,R=E		
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 15 1985	12.5"	16mm	VB,VL,ELONG,BNUC,LARGE SOFT NUC,VMBM,1F*S TIP,FAINT HALO TO TAPPED 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)
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 BROKEN,BEST TO DATE,R=E		
Apr 14 2004	31"	17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BROKEN PARTS,R=E		
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 15 1985	12.5"	12mm	SAME,IRR		
Mar 02 1984	10"	20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES		
Oct 22 1982	12.5"	12mm	VB,VL,EDGE ON,VERY HISB,2 DUST LANES DET,BRT REGIONS DET,TAPPED,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,LARGE BRT NUC,HISB MIDDLE,PAIR=3066,R=G		
Mar 15 1985	12.5"	12mm	VF,MS,OVAL,BM,3066 CLOSE BY,F*NE SEVERAL GAL 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,SLIGHTLY 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,BRT CENTRAL 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,LARGE NUC AREA,MUCH HISB MIDDLE,R=E		
Mar 15 1985	12.5"	16mm	SAME		
Oct 22 1982	12.5"	12mm	SAME		
Oct 22 1982	12.5"	16mm	MB,ML,BNUC,R-OVAL,HISB,GMBM,LARGE NUC AREA,		
Mar 27 1981	12.5"	24mm			
Dec 03 1980	12.5"	24mm			
Aug 22 1980	12.5"	24mm			
NGC 3079	UMa		H47-5	Galaxy SB(s)c sp	VB,L,ME135
Mar 06 2003	12.5"	9mmT6	VB,EL,EDGE ON,MOD HISB,CENTRAL BULGE,SBM,DUST LANE SUSP,PAIR=3073,R=E		
Jan 08 2003	12.5"	9mmT6	VB,BL,EDGE ON,DUST DET,SLIGHTLY BULGE IN MIDDLE,F* IN TIP,MOD HISB,PAIR/3073		
Mar 15 1985	12.5"	12mm	PB,PL,F* IN N TIP,SAME *S PRESENT,S PART THICKER THAN N		
Oct 22 1982	12.5"	16mm	MF,ML,EDGE ON,F*N TIP,F*E SIDE,UB,TAPPERED,NND		
Dec 03 1980	12.5"	24mm	LOOKS LIKE MINATURE M82		
NGC 3102	UMa		H916-3	Galaxy S0-	VF,VS,R,BM,*11 SP
Mar 06 2003	12.5"	9mmT6	DIF,PF,PS,PATCH,*NUC,STELL NUC OR F* DETECTED,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,BRT AREAS IN HALO,GMBM,R=E		
Oct 22 1982	12.5"	16mm	MB,ML,BNUC,INSIDE 4*S,R,SMBM,SMALL BRT NUC		
NGC 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 GAL DIA AWAY		
NGC 3174	Dra		H964-3	Galaxy SB(s)ab pec:	CF,S,STELLAR,S*F NR
Mar 06 2003	12.5"	9mmT6	DIF,VF,MS,PATCH,NND,F* OFF TO EDGE,R=P		
NGC 3182	UMa		H265-1	Galaxy SA(r)a?	CB,CL,IR,VGBM
Apr 23 2003	12.5"	9mmT6	MB,PL,OVAL,BNUC,SHISB,LARGE BRT NUC AREA,R=G		

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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	DIF,VF,VS,FNUC,SLIGHT ELONG DET,HINT OF COMPANION,R=P		
Apr 23 2003	12.5"	9mmT6	VDIF,EF,ES,PATCH,AV,R=P		
NGC 3188A	UMa			Galaxy S?	
Dec 07 2005	31"	17mmT4	EF,ES,PATCH,AV,SUSP,VERY CLOSE TO NGC3188,R=P		
NGC 3194	Dra		H965-3	Galaxy S?	VF,VS
Mar 06 2003	12.5"	9mmT6	DIF,PF,MS,OVAL,PATCH,AV,JUMPS OUT WITH AV THEN HOLDS,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,PATHC,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,SOMEWHAT BM,F* ON EDGE,PAIR=3212/MAC,R=F		
NGC 3218	Dra		H283-1	Galaxy SB(s)bc:	CB,CL,ER,
Mar 06 2003	12.5"	9mmT6	MB,VL,ELONG,PATCH,NND,SOMEWHAT HISB,MANY F*'S IN GAL,R=E		
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 GAL,*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,ELONG,PATCH,NND,SHISB,F* OFF ONE SIDE,R=F		
Jan 08 2003	12.5"	9mmT6	DIF,PF,MS,FNUC,OVAL,SBM,F* ON EDGE,LARGE CENTRAL REGION		
NGC 3236	UMa			Galaxy E/S0	EF,VS,PSBM,2*11,12 F
Feb 04 2005	31"	17mmT4	PF,PS,R,SMALL FNUC,R=F		
NGC 3238	UMa		H883-2	Galaxy SA(r)0^:	F,S,R,PSLBM
Feb 04 2005	31"	17mmT4	PF,MS,OVAL,SMALL BNUC,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,LARGE FNUC,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		

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NGC 3266	UMa		H871-2	Galaxy SAB0^?	CF,VS,R,PSMBM*
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,R=G		
NGC 3286	UMa		H917-3	Galaxy E?	VF,PS,R,PSLBM
Feb 04 2005	31"	17mmT4	MF,MS,SMALL BNUC,GMBM,SOMEWHAT HISB MIDDLE,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,LARGE BNUC,SLIGHTLY HISB MIDDLE,R=G		
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,SMALL BNUC,GMBM,R=G		
NGC 3348	UMa		H80-1	Galaxy E0	B,S,ILE,PSBM,*11F21S
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,DOUBLE NUC,F* NEXT TO STELL NUC,R,BM		
NGC 3353	UMa		H842-3	Galaxy Sb? pec	F,CS,R,PGBM,*S90"
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,STELL NUC DET		
Mar 15 1985	12.5"	24mm	DIF,MF,PL,LARGE 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,SMALL BNUC,MOD HISB MIDDLE,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 3397	Dra		H284-1	Galaxy (R)SA(r)b:	CB,VS,IF
Feb 05 2005	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,HISB MIDDLE,R=G		
NGC 3398	UMa		H792-3	Galaxy Sa?	VF,S,E,ER
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,PAIRS=IC644/OTHERS,R=F		
NGC 3403	Dra		H335-2	Galaxy SABc:	PF,L,IE,VGBM
Feb 23 2006	31"	17mmT4	PF,PL,ELONG,UB,NND,SHISB,D*S POINT TO GAL,R=G		
Dec 07 2005	31"	17mmT4	MB,PL,ELONG,PATCH,UB,NND,SHISB,F* OFF TIP,R=G		
NGC 3406	UMa			Galaxy E	PB,R,PGBM
Feb 05 2005	31"	17mmT4	MF,MS,LARGE BNUC,SHISB,2 HALVES,2 NUC,GBM,IRR,PAIRS=3410/MAC'S,R=G		

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NGC 3407	UMa		H919-3	Galaxy S0-:	VF,VS,R,VS*NR
Feb 05 2005	31"	17mmT4	MF,PS,ELONG,LARGE	FNUC,BM,SOMEWHAT HISB	MIDDLE,R=F
NGC 3408	UMa		H913-3	Galaxy Sc:	VF,CS,R,2PB*S
Feb 05 2005	31"	17mmT4	PF,ML,OVAL,R,SHISB,	LARGE PATCHY NUC,	SLIGHTLY 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,SMALL	FNUC,R=F	
NGC 3440	UMa		H914-3	Galaxy SBb? sp	VF,S,LE
Feb 05 2005	31"	17mmT4	MF,MS,ELONG,LARGE	FNUC,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,MOD HISB,PAIR=	PGC32784,R=G
Mar 15 1985	12.5"	16mm	DIF,PF,MS,BNUC,MOD	HISB,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,ELONG,LARGE	BNUC,HISB,GOOD DEF,	DUST AREA DET,CENTRAL
Mar 15 1985	12.5"	16mm	DIF,VF,MS,EDGE ON,	UB,SLIGHTLY ELONG,	NND,BETWEEN A TRI OF
					VERY F*S
NGC 3458	UMa		H268-1	Galaxy SAB0:	VB,VS,R,STELLAR
Mar 15 1985	12.5"	16mm	MF,PS,BNUC,R,BM,	STELL 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,LARGE	FNUC,PAIR=PGC33043,	R=F
NGC 3471	UMa		H972-3	Galaxy Sa	VF,S,R,BM
Feb 04 2005	31"	17mmT4	MB,PL,ELONG,LARGE	FNUC,MOD HISB	MIDDLE,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,LARGE	FNUC SUSP,SOMEWHAT	BM,R=G
NGC 3499	UMa		H793-3	Galaxy I0?	VF,VS,STELLAR
Apr 03 2005	31"	17mmT4	MB,PS,R,SMALL	BNUC,MOD HISB	MIDDLE,R=G
NGC 3500	Dra		H968-3	Galaxy Sb	VF\$EF,DNEB,V NEAR
Feb 23 2006	31"	17mmT4	MB,ML,R,LARGE	FNUC,F* OTTER EDGE,	MOD HISB MIDDLE,
Dec 07 2005	31"	17mmT4	MF,MS,OVAL,SMALL	FNUC,F* OFF EDGE,	R=F
Feb 05 2005	31"	17mmT4	PF,MS,OVAL,FNUC,	F* OFF EDGE,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 SEVERAL GAL DIA	
NGC 3517	UMa		H884-2	Galaxy SAB:	EF,S,R,VGBM
Apr 03 2005	31"	17mmT4	MF,PS,R,SMALL	BNUC,COMP=PGC33526,	R=F
NGC 3523	Dra		H904-2	Galaxy Sbc	F,PL,LBM,
Feb 23 2006	31"	17mmT4	MB,ML,R,UB,NND,	MOD HISB,PAIR=PGC33277,	R=G
Apr 03 2005	31"	17mmT4	PF,MS,OVAL,PATCH,	UB,NND,PAIR=PGC33277,	R=F

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NGC 3530	UMa		H915-3	Galaxy S?	VF,S,R,PGBM
Apr 03 2005	31"	17mmT4	MF,PS,ELONG,EDGE ON,SMALL BNUC,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,CENTRAL BULGE,R=F		
NGC 3549	UMa		H220-1	Galaxy SA(s)c:	CB,CL,CE160
Mar 15 1985	12.5"	16mm	DIF,MF,PL,ELONG,PATCH,UB,NND		
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,MOD HISB,3"S IN GAL,H2 REGIONS DET,DUST DET,PATCHY ARMS DET,E		
Mar 15 1985	12.5"	12mm	MB,PL,VERY EDGE ON,F*N EDGE,B*CENTER,MOD HISB,KNTY STR SUSP,EXCELLENT!!!		
Mar 02 1984	10"	20mm	SAME		
Oct 22 1982	12.5"	16mm	DIF,MB,VL,F*N EDGE,EDGE ON,UB,LARGE,NND		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5"	24mm			
Sep 18 1980	12.5"	24mm			
Sep 10 1980	12.5"	24mm			
May 07 1980	5"	9mm			
Apr 16 1980	6"	24mm	IN SAME FOV WITH M97		
NGC 3562	Dra		H337-2	Galaxy E	PF,PS,LE,GBM,*70"NP
Apr 03 2005	31"	17mmT4	MB,PL,OVAL,LARGE BNUC,MUCH BM,MOD HISB MIDDLE,PAIRS=PGC'S/MAC,R=F		
NGC 3589	UMa		H921-3	Galaxy Sd:	VF,L,E,VGBM,INTRILST
Apr 03 2005	31"	17mmT4	PF,VL,ELONG,EDGE ON,UB,NND,LARGE 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,LARGE FNUC,SOMEWHAT 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,SLIGHT TAPPERING DET		
Oct 22 1982	12.5"	16mm	PB,MS,BNUC,R,GMBM		
NGC 3613	UMa		H271-1	Galaxy E6	VB,CL,ME305,SMBMN
Mar 15 1985	12.5"	12mm	PB,PS,BNUC,OVAL,SMBM,PAIR/3619		
Oct 22 1982	12.5"	16mm	MB,PS,BNUC,R,SMALL BNUC,GBM,PAIR/3619		
NGC 3619	UMa		H244-1	Galaxy (R)SA(s)0+:	CB,CL,R,VGMBM
Mar 15 1985	12.5"	12mm	PF,MS,PATCHY,SMALL NUC,FAINTER THAN 3613,PAIR/3613		
Oct 22 1982	12.5"	16mm	R,DIF,MF,PS,FUZZY,SBM		
NGC 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		

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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,SMALL NUC,SPR STR DET,2 *S OUTER ARMS	
Oct 22 1982	12.5"	16mm		DIF,VF,MS,PATCHY,OVAL,STELL 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,SOMEWHAT HISB,SOMEWHAT BM,R=G	
NGC 3656	UMa		H782-2	Galaxy (R')I0: pec	PB,S,R,VGBM,*12P
Apr 03 2005	31"	17mmT4		PB,ML,R,UB,NND,MOD HISB,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,SMALL BNUC,MOD HISB MIDDLE,GMBM,R=G	
NGC 3668	UMa		H845-2	Galaxy Sbc	F,PS,IR,GBM,*9NP
Apr 03 2005	31"	17mmT4		PB,PL,OVAL,R,SMALL BNUC,COMP NOT DET,VF* IN EDGE,GBM,HISB MIDDLE,FARM SUSP,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 CENTRAL 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 GAL,R=F	
NGC 3674	UMa		H886-2	Galaxy S0 sp	PF,IF
Apr 03 2005	31"	17mmT4		MB,MS,ELONG,EDGE ON,SMALL BNUC,GMBM,MOD HISB MIDDLE,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,ELONG,LARGE BNUC,HISB MIDDLE,R=G	
NGC 3683	UMa		H246-1	Galaxy SB(s)c?	CB,PL,E
Mar 15 1985	12.5"	16mm		DIF,PF,PS,ELONG,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,BRT * OFF EDGE,SOMEWHAT HISB,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,INTERACTING=IC694,PAIRS=PGC/MAC,R=G	
Mar 15 1985	12.5"	16mm		PF,PS,SLIGHTLY ELONG,2 NUC DET,INTERACTING GAL = IC 694,MOD HISB!!	
NGC 3718	UMa		H221-1	Galaxy SB(s)a pec	PB,VL,R,VGLBM
Feb 23 2006	31"	17mmT4		VB,EF,LARGE BNUC,F* CLOSE TO NUC IN GAL,PATCHY,ARMS SUSP,H2 REGIONS,PAIR=MAC,R=	
Mar 15 1985	12.5"	16mm		PF,VL,SPR ARMS DET,BRT BAR,VERY R,FACE ON,2B*S TO S,PAIR/3729	
Oct 22 1982	12.5"	24mm		MB,ML,2F*S IN S PART,OVAL,NND,PAIR/3729	
NGC 3725	UMa		H836-2	Galaxy SBc	CF,S,R,GVLBM,R
Apr 04 2005	31"	17mmT4		MB,ML,OVAL,SMALL BNUC,SLIGHTLY HISB MIDDLE,PAIR=PGC35626,R=G	

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NGC 3729	UMa		H222-1	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
Feb 23 2006	31"	17mmT4	VB,VL,OVAL,SMALL BNUC,HISB,ARMS,PATCHY AREAS,BRT BAR LIKE NUC W/BULGE,COMP=MAC		
Mar 15 1985	12.5"	16mm	MB,ML,BRT THAN 3718,MOD HISB,B* ON S EDGE,UB,PAIR/3718		
Oct 22 1982	12.5"	24mm	VF,ML,OVAL,NND,MOD HISB,F* IN S PART,PAIR/3718		
NGC 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,SEVERAL 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,LARGE BNUC,DUST LANE,CENTRAL BULGE,GMBM,HISB MIDDLE,PAIR=MAC,R=		
NGC 3736	Dra			Galaxy Sb	VF,VS,R
Apr 04 2005	31"	17mmT4	MF,PS,OVAL,SMALL FNUC,VF* ON EDGE,R=F		
NGC 3737	UMa		H772-3	Galaxy SB0	VF,STELLAR
Apr 04 2005	31"	17mmT4	PB,MS,ELONG,SMALL BNUC,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,MOD HISB,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
Apr 03 2005	31"	17mmT4	MB,ML,ELONG,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,MOD HISB,UB,PAIR/3738		
NGC 3757	UMa		H843-3	Galaxy S0?	VF,R,STELLAR,VS*1DSF
Apr 04 2005	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,HISB MIDDLE,R=G		
NGC 3759	UMa			Galaxy SAB0^:	F,S,IR,*11NR
Apr 04 2005	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,PAIR=IC2943,R=G		
NGC 3759A	UMa			Galaxy SABc pec	
Apr 04 2005	31"	17mmT4	MF,ML,OVAL,SMALL FNUC,SOMEWHAT HISB,PAIR=MAC,R=F		
NGC 3762	UMa		H837-2	Galaxy Sa	F,VLE,GBM
Apr 04 2005	31"	17mmT4	PB,MS,EDGE ON,LARGE BNUC,CENTRAL BULGE,HISB MIDDLE,SMBM,R=G		
NGC 3770	UMa		H838-2	Galaxy SBa	PF,S,R,GBM,R
Apr 04 2005	31"	17mmT4	MB,PS,R,SMALL BNUC,SMBM,MOD HISB MIDDLE,R=G		
NGC 3780	UMa		H227-1	Galaxy SA(s)c:	PF,L,VLE,VGBM,R
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,ELONG,OVAL,LARGE BNUC,HISB MIDDLE,R=G		

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NGC 3804	UMa		H830-2	Galaxy SAB	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,LARGE BNUC,HISB MIDDLE,BM,R=G		
NGC 3824	UMa		H774-3	Galaxy SA(s)a? sp	VF,CS,PME
Dec 07 2005	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB MIDDLE,BM,R=G		
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,SMALL BNUC,CENTRAL BULGE,MOD HISB MIDDLE,R=G		
NGC 3838	UMa		H831-2	Galaxy SA0/a?	PB,CS,E,PSBM*12
Dec 07 2005	31"	17mmT4	VB,ML,ELONG,LARGE BNUC,HISB MIDDLE,BM,R=G		
NGC 3846	UMa			Galaxy SAc:	F,PL,R,VGBM
Feb 23 2006	31"	17mmT4	MF,MS,OVAL,PATCH,SOMEWHAT BM,SOMEWHAT HISB,PAIRS=MAC'S,R=G		
NGC 3846A	UMa			Galaxy SB(s)m:	
Feb 23 2006	31"	17mmT4	PB,PL,ELONG,OVAL,PATCH,UB,NND,MOD HISB,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,SOMEWHAT HISB,PAIR=MAC,R=G		
NGC 3870	UMa		H833-3	Galaxy S0?	CF,CS,R,PSBM
Feb 23 2006	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,HISB MIDDLE,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,SMALL BNUC,HISB,PAIRS=3889/PGC/MAC,R=G		
Mar 15 1985	12.5"	16mm	MB,MS,OVAL,UB,NND,MOD HISB,PAIR/3898		
NGC 3889	UMa			Galaxy S0	VF,VS,5'S OF 3888
Feb 23 2006	31"	17mmT4	PF,PS,ELONG,LARGE BNUC,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,LARGE BNUC,MOD HISB,SUDDENLY MBM,LARGE NUC 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,STELL 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,ELONG,BNUC,VMBM		

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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,LARGE FNUC,PATCHY,R=F		
NGC 3916	UMa		H787-2	Galaxy SAb: sp	EF,R,GBM
Feb 23 2006	31"	17mmT4	PF,MS,ELONG TO EDGE ON,PATCH,UB,NND,SOMEWHAT HISB,PAIRS=3921/PGC37013,R=F		
NGC 3917	UMa		H824-2	Galaxy SAcD:	F,L,VME,VGBM
Jan 29 2014	36"	17mmT4	MB,VL,ELONG,UB,NND,SHISB,CIGAR SHAPE,PAIR=PGC36973,R=GE		
Mar 04 2006	31"	17mmT4	PB,VL,EDGE ON,UB,NND,CENTRAL 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,OVAL,LARGE BNUC,MOD HISB,SMBM,HISB MIDDLE,PAIRS=3916,PGC37013,R=G		
NGC 3922	UMa		H716-3	Galaxy S0/a	VF,VS
Mar 04 2006	31"	17mmT4	PB,PL,ELONG,LARGE BNUC,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,LARGE FNUC,SMBM,MOD HISB MIDDLE,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 SURROUND OBJECT,R,VMBM,HISB MIDDLE		
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,VSBMLRN
Mar 15 1985	12.5"	16mm	SAME,PB,PL,BNUC,F* JUST W OF NUC,FACE ON,SPR STR DET		
Feb 12 1983	12.5"	16mm	MB,PL,DNUC,F*W EDGE,OVAL,SOFT DIM NUC,VMBM,FACE ON,HALO		
NGC 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,MOD HISB MIDDLE,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,OVAL,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,TAPPERED ENDS,NND,PAIR/3977		
NGC 3975	UMa			Galaxy SAb?	VF,VS,3978F17S
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,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,SMALL NUC,F* SUSP CLOSE TO NUC,SBM,SOME SPR STR SUSP		
Feb 12 1983	12.5"	16mm	MB,ML,BNUC,F*N SIDE,OVAL,F*E EDGE,KNTS SUSP,ARMS SHOW GOOD,PAIR/3972		

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NGC 3978	UMa		H840-2	Galaxy SABbc:	CF,S,LE,BM,*8P6'
Mar 04 2006	31"	17mmT4	PB,PL,R,SMALL FNUC,MOD HISB,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		
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,ELONG,VERY LARGE BNUC,HISB NUC,FARMS DET,PATCHY AREAS DET,M109,R=E		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 18 1980	12.5"	24mm			
NGC 3998	UMa		H229-1	Galaxy SA(r)0^?	CB,PS,R,VG,SMBM
Mar 15 1985	12.5"	12mm	PB,MS,BNUC,R,COMP TO W = 3990		
Feb 12 1983	12.5"	16mm	MB,MS,BNUC,R,VMBM,FAINT COMP (3990),FORMS TRI WITH 3982		
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,CENTRAL BULGE		
NGC 4034	Dra		H903-3	Galaxy Scd:	EF,S,IF,GVLBM
Mar 06 2003	12.5"	9mmT6	SUSP ONLY,LOCATION GOOD,R=P		
NGC 4036	UMa		H253-1	Galaxy S0-	VB,VL,E
Mar 06 2003	12.5"	9mmT6	VB,VL,BNUC,VBM,LARGE BRT NUC,HISB MIDDLE,TAPPERED ENDS,R=E		
Feb 12 1983	12.5"	16mm	MB,PL,EDGE ON,BNUC,CENTRAL BULGE,DUST LANE SUSP,BM,PAIR/4041		
NGC 4041	UMa		H252-1	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN
Mar 06 2003	12.5"	9mmT6	VB,PL,R,HISB,VERY LARGE NUC,VF* SUSP IN GAL,SMALL AREA (RING),FAINT ARMS,R=E		
Feb 12 1983	12.5"	16mm	MF,MS,DNUC,R,SBM,PAIR/4036		
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,BRT * IN CENTER,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,ELONG,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,SOMEWHAT HISB,PAIR=4085,R=E		
Feb 12 1983	12.5"	24mm	DIF,PB,PL,ELONG,HISB,NND,UB,W SIDE WIDER THAN E,PAIR/4085		

Circumpolar Observations

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,LARGE HISB NUC,F* OFF ONE EDGE,R=G		
Feb 12 1983	12.5"	16mm	MB,PS,BNUC,R,BM,F* (13 MAG) W EDGE,F* FARTHER E		
NGC 4108	Dra			Galaxy (R')SAc:	B,S,R,GBM
Mar 06 2003	12.5"	9mmT6	MB,PL,R,FNUC,SOMEWHAT HISB,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		
NGC 4108B	Dra			Galaxy SAB(s)d pec?	
Mar 06 2003	12.5"	9mmT6	SUSP ONLY,LOCATION 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,SMALL NUC,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,ELONG,FNUC,SMALL BRT NUC,MOD HISB MIDDLE,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,ELONG,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,MOD HISB,DUST LANE SUSP,RES 7331,CENTRAL 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,LOCATION GOOD,R=P		
NGC 4161	UMa		H803-2	Galaxy S?	F,S,R
Apr 23 2003	12.5"	9mmT6	PB,ML,ELONG,PATCH,SOMEWHAT HISB,B* SURROUNDS OBJECT,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		

Circumpolar Observations

NGC 4181	CVn		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		
NGC 4194	UMa		H867-2	Galaxy IBm pec	PB,VS,VSBM*12
Apr 23 2003	12.5"	9mmT6	PB,ML,OVAL,R,BNUC,MOD HISB,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,BETWEEN 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,MOD HISB,F* IN GAL,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,MOD HISB,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,MOD HISB,LARGE NUC AREA,HISB MIDDLE,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,ELONG,PATCH,LARGE,PATCHES DET,H2 REGIONS 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,LARGE BNUC,HISB MIDDLE,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,SMALL BNUC,CENTRAL BULGE,HISB MIDDLE,BM,DUST SUSP,R=E		
NGC 4271	UMa		H804-2	Galaxy S0-:	PB,PL,IF
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,LARGE BNUC,F* OFF ONE SIDE,ANOTHER OFF END,MOD HISB MID,PAIR=MAC,R=G		
NGC 4284	UMa		H798-3	Galaxy Sbc	CF,LE,P OF 2
Feb 04 2005	31"	17mmT4	MB,PS,ELONG,VERY SMALL FNUC,* 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,SMALL BNUC,SHISB,HISB MIDDLE,BM,PAIR=4284,R=G		

Circumpolar Observations

NGC 4291	Dra		H275-1	Galaxy E	PB,VS,R,LBM,3*F
Feb 04 2005	31"	17mmT4	PB,MS,OVAL,SMALL BNUC,MOD HISB,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,SMALL FNUC,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,ELONG,EDGE ON,LARGE BNUC,ALMOST EDGE ON,MOD HISB MIDDLE,BM,R=G		
NGC 4335	UMa		H806-2	Galaxy E	PB,S,E,GBM
Feb 04 2005	31"	17mmT4	MB,PL,OVAL,LARGE BNUC,HISB MIDDLE,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 GAL,INTERACT=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,SMALL FNUC,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,LARGE FNUC,SLIGHTLY HISB MIDDLE,INTERACT=4358,PAIR=4362,R=G		
NGC 4384	UMa		H879-3	Galaxy Sa	CF,S,IR
Feb 04 2005	31"	17mmT4	MB,MS,OVAL,LARGE NUC,SHISB,GRADUALLY BM,R=G		
NGC 4386	Dra		H277-1	Galaxy SAB0^:	PB,CL,LE,PSMBM
Feb 04 2005	31"	17mmT4	PB,ML,OVAL,LARGE BNUC,MOD HISB,BM,R=G		
NGC 4391	Dra		H852-3	Galaxy SA0-:	CF,S,R,SBM,***SP
Feb 04 2005	31"	17mmT4	MB,PS,OVAL,SMALL BNUC,MOD HISB,R=G		
NGC 4441	Dra		H848-2	Galaxy SAB0+ pec	PB,S,IR,BM
Feb 04 2005	31"	17mmT4	MB,MS,OVAL,LARGE FNUC,SHISB,R=G		
NGC 4481	Dra			Galaxy	PF,VS,R,*13ATT
Feb 04 2005	31"	17mmT4	MF,PS,EDGE ON,UB,NND,SHISB,CENTRAL BULGE,R=G		
NGC 4500	UMa		H234-1	Galaxy SB(s)a	B,CS,E,PGBM,*9F50"
Feb 04 2005	31"	17mmT4	PB,MS,ELONG,SMALL BNUC,HISB MIDDLE,BM,TAPPERED ENDS,R=G		
NGC 4510	Dra			Galaxy E	CL,VS,ST F,MC
Feb 04 2005	31"	17mmT4	MB,VS,OVAL,SMALL BNUC,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		

Circumpolar Observations

NGC 4513	Dra		Galaxy (R)SA0[^]	F,R,(VS CL)
Feb 04 2005	31"	17mmT4	MF,PS,,OVAL,SMALL FNUC,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,LARGE BNUC,HISB,CENTRAL BULGE,HISB MIDDLE,GMBM,PAIR=4512,R=G	
NGC 4537	CVn		Galaxy S	EEF,S,R,NEARLYBET2ST
Mar 04 2006	31"	17mmT4	MF,PS,OVAL,PATCH,SMALL FNUC,PAIR=4542,R=F	
NGC 4542	CVn		Galaxy S	EF,PL,R
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIR=4537,R=G	
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,SMALL BNUC,VERY 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,ELONG,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,SBNUC,FAINT HALO AROUND NUC,SMBM,MOD HISB MIDDLE,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,CENTRAL BULGE,PAIR=MAC,R=F	
NGC 4589	Dra		H273-1 Galaxy E2	CB,L,LE,PGMBM
Feb 23 2006	31"	17mmT4	EB,VL,OVAL,LARGE BNUC,HISB,SEVERAL *S AROUND NUC ON EDGE,SMBM,R=E	
NGC 4605	UMa		H254-1 Galaxy SB(s)c pec	B,L,VME118,GLBM
Mar 26 2006	31"	17mmT4	EB,VL,ELONG,UB,HISB PATCHES DET,* OFF ONE SIDE,CENTRAL 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,MOD HISB,CIGAR SHAPE,* OFF NUC,R=G	
NGC 4644	UMa		H794-2 Galaxy SBb:	VF,S,R,GBM
Mar 26 2006	31"	17mmT4	MF,MS,ELONG,LFNUC,SOMEWHAT HISB MIDDLE,CLOSE COMP=PGC42725,R=F	
NGC 4646	UMa		H794-2 Galaxy S0?	F,S,4VS*SP
Mar 26 2006	31"	17mmT4	MB,MS,OVAL,LBNUC,* OFF EDGE,GMBM,HISB MIDDLE,PAIR=MAC,R=G	
NGC 4648	Dra		H274-1 Galaxy E3	PB,CS,R,GBM,**P
Feb 23 2006	31"	17mmT4	PB,PL,R,LARGE BNUC,HISB MIDDLE,GRADUALLY MBM,R=G	
NGC 4652	UMa		Galaxy Sb	PF,PL,GBM,2B*6'NP
Mar 26 2006	31"	17mmT4	PF,PS,ELONG,LARGE FNUC,VF* IN EDGE,R=F	
NGC 4669	UMa		Galaxy S	F,E,(RESOLVABLE)
Mar 26 2006	31"	17mmT4	MF,MS,ELONG,UB,NND,SHISB,CIGAR SHAPE,SOMEWHAT HISB,R=F	
NGC 4675	UMa		H778-3 Galaxy SBb:	CF,S,LE
Mar 26 2006	31"	17mmT4	MF,MS,ELONG,UB,NND,SHISB,PAIR=PGC43028,R=F	

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NGC 4686	UMa		H795-2	Galaxy Sa	PF,VS,VME,VSMBM
Mar 26 2006	31"	17mmT4	MB,ML,ELONG,LBNUC,FAINT HALO,ARMS,HISB MIDDLE,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,ELONG,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,VERY SMALL BNUC,BM,STELLAR LIKE NUC,F PATCH AROUND NUC,R=F		
NGC 4732	UMa		H814-2	Galaxy E	F,S,VSMBM
Mar 26 2006	31"	17mmT4	MB,MS,ELONG,LARGE BNUC,SOMEWHAT HISB MIDDLE,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,MOD HISB,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,SMALL BNUC,HISB,SUDDENLY MBM,DARK PATCHES,FARMS,F HALO AROUND NUC,R=E		
NGC 4801	UMa		H816-3	Galaxy L	EF,S,LE
Mar 26 2006	31"	17mmT4	MF,PS,OVAL,SMALL BNUC,R=F		
NGC 4814	UMa		H243-1	Galaxy SA(s)b	B,PS,VLE,VGBM
Mar 26 2006	31"	17mmT4	MB,ML,OVAL,SBNUC,MHISB,GMBM,SMALL R NUC,HISB MIDDLE,R=G		
NGC 4834	CVn		H817-3	Galaxy Sbc	VF,S,IR,BM
Mar 17 2007	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,SOMEWHAT HISB,GMBM,R=F		
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,LARGE NUC,MOD HISB MIDDLE,SMBM,R=F		
NGC 4857	Dra		H908-3	Galaxy SABb	EF,VS,IR,VLBM
Feb 23 2006	31"	17mmT4	PF,PS,R,LARGE BNUC,MOD HISB MIDDLE,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,SMALL FNUC,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,SMALL FNUC,R=F		
NGC 4972	UMi		H937-3	Galaxy S0?	VF,S,IR,BM
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,UNIDENTIFIED COMP CLOSE BY,R=F		
NGC 4973	UMa		H781-3	Galaxy E/S0	VF,S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,R,SMALL BNUC,BM,PAIRS/MANY,R=F		

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NGC 4974	UMa		H782-3	Galaxy E/S0	VF,S
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,R,SMALL BNUC,BM,PAIRS=4973	GROUP,R=F	
NGC 4977	UMa		H780-3	Galaxy SA(r)b	CF,S
Apr 14 2004	31"	17mmT4	MF,PS,OVAL,LARGE FNUC,R=F		
NGC 4987	CVn		H815-2	Galaxy E	VF,VS,STELLAR
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,BM,PAIRS=PGC45564/PGC45520,R=F		
NGC 4998	CVn		H819-3	Galaxy Sc	VF
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,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,SMALL BNUC,MHISB,R=F		
NGC 5007	UMa		H848-3	Galaxy S0-	VF,VS
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,R,SMALL BNUC,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,SMALL BNUC,PAIR=MAC,R=F		
NGC 5109	UMa		H826-2	Galaxy S	CF,S,CE
Apr 14 2004	31"	17mmT4	DIF,PF,MS,ELONG,UB,CENTRAL BULDGE,PAIR=5113,R=F		
NGC 5113	UMa		H808-3	Galaxy Sbc	CF,S,E,(=5109)
Apr 14 2004	31"	17mmT4	VDIF,VF,PS,ELONG,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 DETECTED,R=F		
NGC 5163	UMa		H821-3	Galaxy E	CF,STELLAR
Apr 03 2005	31"	17mmT4	MB,PS,OVAL,R,SMALL BNUC,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,SMALL BNUC,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,VERY SMALL FNUC,SLIGHTLY BM,R=F		
NGC 5216	UMa		H841-2	Galaxy E0 pec	PB,S,VLE
Apr 03 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,SMBM,MOD HISB MIDDLE,R=G		

Circumpolar Observations

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,SMALL BNUC,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,SMALL BNUC,SOMEWHAT HISB MIDDLE,R=G		
NGC 5255	UMa		H803-3	Galaxy Sb	VF,VS
Apr 03 2005	31"	17mmT4	MF,VS,SMALL BNUC,R=G		
NGC 5262	UMi			Galaxy S0-:	EF,S
Feb 05 2005	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,,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,SOMEWHAT HISB,CLOSE COMP=5278,PAIRS=PGC'S,R=F		
NGC 5283	Dra			Galaxy S0?	F,S,STELLAR
Apr 03 2005	31"	17mmT4	MF,PS,R,SMALL BNUC,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,SMALL FNUC,R=F		
Feb 04 2005	31"	17mmT4	MF,MS,OVAL,SMALL BNUC,R=F		
NGC 5308	UMa		H255-1	Galaxy S0- sp	B,PL,ME57,PSMBEN
Apr 03 2005	31"	17mmT4	PF,PL,EDGE ON,LARGE BNUC,HISB MIDDLE,DUST SUSP,TAPPERED 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,SOMEWHAT HISB,R=F		
NGC 5322	UMa		H256-1	Galaxy E3-4	VB,PL,IR,PSMBM
Apr 03 2005	31"	17mmT4	VB,VL,ELONG,OVAL,LARGE BNUC,HISB MIDDLE,* 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,ELONG,EDGE ON,UB,NND,CENTRAL 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,ELONG,LARGE BNUC,R=F		

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NGC 5344	UMi		Galaxy	VF,S,R
May 16 2004	31"	17mmT4	PF,MS,OVAL,SMALL FNUC,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,LARGE BNUC,HISB MIDDLE,GMBM,PAIR=MAC,R=G	
NGC 5370	UMa		H843-2 Galaxy SB(r)0^	F,S
May 16 2004	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,GMBM,SHISB MIDDLE,R=G	
NGC 5372	UMa		H809-3 Galaxy S?	CF,S,E,(**INV)
May 16 2004	31"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB MIDDLE,R=G	
NGC 5376	UMa		H844-2 Galaxy SAB(r)b?	CB,PL,VLE,VGMBM
May 16 2004	31"	17mmT4	MB,PL,OVAL,PATCH,SHISB,BRT PATCH IN GAL DET CLOSE TO NUC,PAIRS=5389/5379,R=G	
NGC 5379	UMa		H239-1 Galaxy S0	PB,PS,E,MBM
May 16 2004	31"	17mmT4	DIF,MF,ML,OVAL,PATCH,NND,SOMEWHAT 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,ELONG,LARGE BNUC,MOD HISB,GMBM,TAPPERED 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,SLIGHTLY BRTER 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,LARGE BNUC,MOD HISB MIDDLE,R=G	
NGC 5413	Dra		Galaxy E	PF,PS,R,PSLBM,*7P37S
May 16 2004	31"	17mmT4	MF,MS,R,SMALL FNUC,SUDDENLY BM,LARGE 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,LARGE BRT NUC,MOD HISB MIDDLE,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,SOMEWHAT HISB,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,SMALL BNUC,FACE ON,SPR STR,H2 REGIONS,DUST,DETAIL IN ARMS,MANY F*'S IN /	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 06 2003	12.5"	9mmT6	EB,EL,R,BNUC,HISB,FACE ON,KNTS DET,ARMS DET,SPR STR DET,F*'S,SMALL RNUC,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		

Circumpolar Observations

NGC 5471	UMa		Galaxy	F,S,R,*12,13P
Mar 08 2010	31"	17mmT4	MB,PS,OVAL,LARGE BNUC,GAL IN M101,PAIRS=NGC'S,R=G	
Nov 24 2006	12.5"	12mmT4	VF,VS,R,SMALL FNUC,VERY CLOSE TO M101,R=F	
May 16 2004	31"	17mmT4	MB,MS,R,LARGE BNUC,LARGE NUC AREA,CLOSE TO M101,MOD HISB,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,MOD HISB,R=G	
Jun 11 1983	12.5"	20mm	MB,PS,BNUC,BETWEEN 2 F*S E&W,R,SBM,CLOSE TO M101 (NORTH)	
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 GAL DET,R=G	
Jun 11 1983	12.5"	20mm	DIF,MB,PL,FNUC,F*NW 1 GAL DIA,OVAL,SMALL BRT NUC,SOUTH OF M101	
Mar 27 1981	12.5"	24mm		
NGC 5475	UMa		H800-2 Galaxy Sa? sp	PB,S,PME,BM
Mar 06 2003	12.5"	9mmT6	MB,PL,ELONG,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 GAL,R=F	
Mar 06 2003	12.5"	9mmT6	EDIF,EF,MS,PATCH,SUSP ONLY,LOCATION,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,LARGER THAN COMP,PAIR/5481,R=F	
NGC 5481	UMa		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,LOCATION 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,MOD HISB,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,SMALL NUC AREA,SBM,R=F	
Mar 06 2003	12.5"	9mmT6	MB,MS,ELONG,BNUC,SMALL BRT NUC,SLIGHTLY HISB,R=F	
NGC 5526	UMa		H804-3 Galaxy Sbc	VF,S,E,R
Mar 06 2003	12.5"	9mmT6	VDIF,VF,PS,ELONG,PATCH,NND,CLOSE COMP NOT DET,R=P	

Circumpolar Observations

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 VARIOUS PARTS DETECTED,R=F		
NGC 5602	Boo		H694-2	Galaxy Sa	PF,PS,LE,MBM
Jun 01 2003	12.5"	9mmT6	MF,MS,OVAL,FNUC,SHISB,SMALL NUC,R=F		
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 NORTH,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,ELONG,BNUC,SHISB,HALO-ARMS,SMALL BRFT NUC,STELLAR LIKE,GMBM,R=G		
Jun 11 1983	12.5"	20mm	MF,VS,BNUC,SEVERAL F*S TO N,R,GBM,BARREN AREA TO SOUTH		
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,ELONG,SHISB,PATCHY AND DARK AREAS IN CENTRAL REGION DETECTED,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,MOD HISB MIDDLE,PAIR=PGC51922,R=G		
Jul 22 1981	12.5"	16mm	OBLONG,SMBM,DIF,DNUC,FAINT HALO		
NGC 5687	Boo		H808-2	Galaxy S0-?	PF,S,IF,RESOLVA,*10F
Apr 14 2004	31"	17mmT4	MF,MS,ELONG,* BOTH TIPS,LARGE SOFT BNUC,MOD HISB MIDDLE,PAIR=PGC52098,R=F		
May 06 1981	12.5"	24mm	MB,MS,BNUC,DIM HALO,*13 MAG EDGE OF GAL		
NGC 5707	Boo			Galaxy Sab: sp	B,PS,R
Apr 14 2004	31"	17mmT4	MB,PL,ELONG,LARGE BNUC,COMP OFF TIP(PGC52269),SHISB MIDDLE,TAPPERED 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,SMALL FNUC,SBM,R=F		

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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,LARGE FNUC,CENTRAL BULDGE,DUST SUSP,PAIR=PGC53057,R=F		
NGC 5779	Dra			Galaxy S	VF,PS,LE,LBM
Mar 04 2006	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,MOD HISB,* 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 GAL,PAIR=5788,R=F		
NGC 5788	Boo			Galaxy	EEF,S,R,VDIFFIC,SF-2
Apr 14 2004	31"	17mmT4	DIF,PF,MS,ELONG,PATCH,UB,NND,PAIR=5783,R=F		
NGC 5807	Dra			Galaxy Compact	VF,VS,RESOLVABLE
Apr 14 2004	31"	17mmT4	MF,MS,OVAL,SMALL FNUC,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,MOD HISB,LARGE BRT NUC AREA,B** IN FOV,R=G		
May 06 1981	12.5"	24mm	DIF,VF,VS,FAINT HALO,JUST W OF A NICE DOUBLE *		
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,STELL NUC,SOMEWHAT HISB,F* IN CENTRAL 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		
Jul 11 1980	12.5"	24mm			
Jun 20 1980	12.5"	24mm			
Jul 14 1980	12.5"	24mm			
Mar 02 1984	10"	20mm	SAME		
Jul 09 1983	12.5"	12mm	MB,ML,BNUC,2F*S ON BOTH SIDES,LARGE BRT NUC,TAPPERED ENDS		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jul 22 1981	12.5"	16mm	VB,ML,ELONG,BNUC,BRT HALO AROUND NUC		
Apr 23 2003	12.5"	9mmT6	EB,,VL,OVAL,BNUC,HISB,AWSOME,BEAUTIFUL,TAPPERED ENDS,LARGE NUC AREA,GMBM,R=E		
NGC 5866B	Dra			Galaxy SAB(rs)dm:	
Apr 23 2003	12.5"	9mmT6	VDIF,VF,PL,OVAL,R,PATCH,UB,NND,R=F		

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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,CENTER OF TRI OF *S,R=G	
NGC 5875	Boo		H755-2 Galaxy SAb:	PB,PL,LE
Apr 23 2003	12.5"	9mmT6	ELONG,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,MOD HISB,R=G	
NGC 5879	Dra		H757-2 Galaxy SA(rs)bc:?	CB,S,E,MBMRN,R
Apr 23 2003	12.5"	9mmT6	ELONG,OVAL,BNUC,MOD HISB,LARGE NUC AREA,HISB MIDDLE,R=G	
Jul 09 1983	12.5"	16mm	MB,ML,ELONG,BNUC,SBM,NO *S,LARGE NUC AREA	
Jul 22 1981	12.5"	16mm	DIF,MF,ML,ELONG TO EDGE ON,GBM,FAINT HALO	
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,ELONG,EDGE ON,UB,NND,SOME DUST SUSP,R=G	
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,EDGE ON,SBM,TAPPERED	
NGC 5902	Boo		H737-3 Galaxy S	VF,VS,STELLAR
Apr 23 2003	12.5"	9mmT6	MF,MS,R,BNUC,MOD HISB,GMBM,R=F	
NGC 5905	Dra		H758-2 Galaxy SB(r)b	PF,PS,IR
Apr 23 2003	12.5"	9mmT6	PB,PL,FNUC,MOD HISB,PATCH AREA DET,PAIR=5908,R=G	
Jul 09 1983	12.5"	16mm	DIF,MF,PS,EDGE ON,BNUC,PAIR/5907,BM,TAPPERED ENDS,2F*S AROUND GAL	
Jul 22 1981	12.5"	16mm	PF,MS,EDGE ON,FAINT 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,MOD HISB,BEAUTIFUL,DUST LANE,CENTRAL BULGE,R=E	
Jul 09 1983	12.5"	16mm	MB,PS,ELONG,VERY EDGE ON,FNUC,PAIR/5905	
Jul 22 1981	12.5"	16mm	EXT EDGE ON,UB,EQ DUST LANE SEEN	
Mar 27 1981	12.5"	24mm		
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
Jun 20 1980	12.5"	24mm	VERY IMPRESSIVE,VB,ELONG	
NGC 5908	Dra		H760-2 Galaxy SA(s)b: sp	PF,PS,R
Apr 23 2003	12.5"	9mmT6	PB,PL,EDGE ON,FNUC,SOMEWHAT HISB,LARGE NUC AREA,DARK LANE SUSP,PAIR=5905,R=G	
Jul 09 1983	12.5"	16mm	MB,PL,ELONG,EGDE ON,BNUC,DUST LANES SUSP,TAPPERED ENDS	
Jul 22 1981	12.5"	16mm	SOMEWHAT BRT THAN COMP 5905,EDGE ON,DNUC,FAINT 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,SMALL NUC,COMP=5912,R=F	

Circumpolar Observations

NGC 5912	UMi	H944-3	Galaxy E?	VF,VS
Apr 23 2003	12.5"	9mmT6	MF,PS,OVAL,PATCH,FNUC,COMP=5909,SLIGHTLY 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,MOD HISB,R=G	
Jul 09 1983	12.5"	16mm	MB,PS,PATCH,MOD HISB	
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,MOD HISB,PAIR=5965,R=G	
Jul 09 1983	12.5"	16mm	MB,PS,BNUC,F* CLOSE BY,R,SBM,PAIR/5965	
NGC 5965	Dra	H762-2	Galaxy Sb	CF,CL,LE
Apr 23 2003	12.5"	9mmT6	PB,PL,ELONG,PATCH,UB,NND,SOMEWHAT HISB,PAIR=5963,R=G	
Jul 09 1983	12.5"	12mm	MOD HISB IN MIDDLE	
Jul 09 1983	12.5"	16mm	MF,PL,EDGE ON,FNUC,SBM,TAPPERED 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,CENTRAL BULGE,PAIR=5982/5985,R=G	
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,ELONG,VERY THIN,SEVERAL OTHER GAL IN FIELD	
NGC 5982	Dra	H764-2	Galaxy E3	CB,S,R,PSBM,R
Apr 23 2003	12.5"	9mmT6	VF,ML,BNUC,R,MOD HISB,GMBM,LARGE NUC,PAIR=5981/5985,R=G	
Jul 09 1983	12.5"	16mm	MB,ML,BNUC,R,BM,SEVERAL OTHER PAIRS	
Jul 22 1981	12.5"	24mm	VMBM,FAINT HALO,COMP CLOSE 5985	
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
Jun 20 1980	12.5"	24mm		
NGC 5985	Dra	H766-2	Galaxy 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	STELL NUC OR *,OTHERS PRESENT	
Jul 09 1983	12.5"	16mm	MF,PL,ELONG,UB,SPR STR SUSP,OTHER COMP	
Jul 22 1981	12.5"	16mm	DIF,R,SPR STR SUSP,OTHER GAL PRESENT	
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
Jun 20 1980	12.5"	24mm		

Circumpolar Observations

NGC 5987	Dra		H765-2	Galaxy Sb	PF,CS
Apr 23 2003	12.5"	9mmT6	PB,MS,R,BNUC,MOD HISB,B* CLOSE BY,LARGE NUC,GMBM,R=G		
Jul 09 1983	12.5"	16mm	MB,PS,ELONG,B*W SIDE,MOD HISB,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,SOMEWHAT HISB,R=F		
Jul 09 1983	12.5"	16mm	EDIF,VF,MS,PATCH,NND,SOMEWHAT HISB		
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 GAL,R=F		
NGC 6015	Dra		H739-3	Galaxy SA(s)cd	VF,PL,R,VGBM
Jun 01 2003	12.5"	9mmT6	MB,VL,ELONG,OVAL,NND,SHISB,F*S IN TIP,CIGAR SHAPE,CENTRAL BULGE,R=G		
Jul 09 1983	12.5"	16mm	MB,PL,OVAL,MOD HISB,3F*S OFF TO N,B*NW CLOSE BY,NND		
Jul 22 1981	12.5"	16mm	DIF,OVAL,F* TO N SIDE,SPR STR SUPS,14MAG *		
Jul 14 1980	12.5"	24mm	LOOKS LIKE A SMALL CLUSTER,APPROX 4 *S?		
Jul 11 1980	12.5"	24mm			
Jun 20 1980	12.5"	24mm			
NGC 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,CLUSTER OF F*S AROUND OBJECT,HINT OF GAL PRESENT,STELLAR,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,ELONG,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,SMALL FNUC,SHISB,CAN SEPERATE 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,SOMEWHAT HISB,LARGE NUC 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,LARGE FNUC,R=F		

Circumpolar Observations

NGC 6095	Dra		Galaxy S0-:	EF,PS,R,LINW/2*
Jun 21 2003	12.5"	9mmT6	PB,ML,OVAL,FNUC,SOMEWHAT HISB,SMALL SOFT NUC,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,FNUC,SOFT SMALL 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,LARGE NUC ARA,GMBM,R=F	
NGC 6128	Dra		Galaxy E	PF,PS,R,BM
Jun 22 2003	12.5"	9mmT6	PB,PL,OVAL,BNUC,VERY HISB,LARGE NUC GOES TO BRT CENTRAL REGION,SMBM,R=G	
Jul 09 1983	12.5"	16mm	MF,MS,BNUC,R,BM	
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	
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,MOD HISB,B* OFF ONE SIDE,R=G	
Jul 09 1983	12.5"	16mm	DIF,MF,PL,ELONG,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,LARGE PATCH,BETWEEN 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,SMALL FAINT NUC,R=F	
NGC 6176	Dra		Galaxy E/S0	EF,ES,VDIFFIC
Mar 04 2006	31"	17mmT4	MF,PS,OVAL,LARGE FNUC,SOMEWHAT HISB MIDDLE,R=F	
NGC 6182	Dra		H813-3 Galaxy Sa	VF,VS,IR
Jun 22 2003	12.5"	9mmT6	PB,ML,OVAL,FNUC,SHISB,SMALL FAINT NUC,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,MOD HISB TOWARDS MIDDLE,R=G	
NGC 6190	Dra		Galaxy Scd:	VF,PS,R,F*NR
Jun 22 2003	12.5"	9mmT6	PF,PL,PATCH,FNUC,SHISB IN MIDDLE,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	

Circumpolar Observations

NGC 6211	Dra		Galaxy SB(r)0⁺ pec:	VF,PS,R,SP OF 2
May 09 2010	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,PAIRS=6213/PGC'S,R=G	
Jun 22 2003	12.5"	9mmT6	MB,PL,OVAL,FNUC,SHISB,SMALL NUC,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,ELONG,LARGE FNUC,PARIS=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,SMALL FAINT NUC,DUST SUSP,FARMS,R=E	
Aug 13 1982	12.5"	16mm	PF,PS,DIF,STELL 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,LARGE NUC AREA,R=G	
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,STELLAR NUC OR F* IN GAL,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,SLIGHTLY 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,ELONG,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,SMALL BRT NUC,CLOSE TO B*,PAIR=6246,R=F	
NGC 6247	Dra		Galaxy Pec	F,PS,IF
Jun 24 2003	12.5"	9mmT6	PB,ML,OVAL,FNUC,SOFT SMALL NUC,R=G	
NGC 6248	Dra		Galaxy SBd	EEF,PL,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	DIF,VF,PL,ELONG,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 MIDDLE,SMBM,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	

Circumpolar Observations

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,ELONG,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	
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,SMALL NUC,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 AROUND GAL,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,MOD HISB,R=G	
NGC 6299	Dra		Galaxy S	VF,VS,R
Jun 21 2003	12.5"	9mmT6	MF,MS,R,FNUC,SHISB,SLIGHTLY BM,R=F	
NGC 6303	Dra		Galaxy E	EF,PL,ME,NR BET 2*
Jun 21 2003	12.5"	9mmT6	MF,MS,PATCH,FNUC,STELL 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,MOD HISB,GBM,F* IN EDGE OF GAL,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,SOMEWHAT HISB,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	

Circumpolar Observations

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,LFNUC,VERY CLOSE COMP=MAC,CAN SEPERATE,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,LARGE BNUC,MHISB,PAIRS=6345/OTHERS,R=G		
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL,R,BNUC,SHISB,GMBM,CLOSE COMP=PGC59943,CLUSTER 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,MOD HISB,SMALL BRT NUC,FACE ON,SPR STR SUSP,PAIR=IC1251/IC1254,R=G		
Jul 22 1981	12.5"	16mm	ALMOST STELL NUC,DIF HALO,F* SUSP N SIDE		
NGC 6345	Dra			Galaxy S/S0	EEF,VS,R,2ND OF 3
Mar 04 2006	31"	17mmT4	BM,PS,ELONG EDGE ON,SMALL BNUC,BAR LIKE NUC,SMBM,HISB MIDDLE,PAIRS=6338,R=F		
Mar 04 2006	31"	17mmT4	MB,MS,ELONG,SMALL BNUC,MOD HISB MIDDLE,PAIRS=6346/PGC/MAC,R=G		
Jun 22 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,ELONG,PAIR=6346CLUSTER 2 OF 5,R=P		
NGC 6346	Dra			Galaxy E	EEF,S,R,3RD OF 3
Mar 04 2006	31"	17mmT4	MB,MS,ELONG,LARGE BNUC,MOD HISB MIDDLE,PAIRS=6345/PGC/MAC,R=G		
Jun 22 2003	12.5"	9mmT6	VDIF,VF,MS,PATCH,UB,NND,PAIR=6345,CLUSTER 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,MOD HISB,LARGE BRT NUC,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 CENTRAL BULGING,PAIR=PGC60040,R=G		
Jun 22 2003	12.5"	9mmT6	MB,ML,EDGE ON,NND,CENTRAL BULGE NOT DET,PATCHY AREAS,ELONG,R=F		
NGC 6365A	Dra			Galaxy SBcd:	EEF,PL,IR,EF ST INV
Mar 04 2006	31"	17mmT4	VF,PS,ELONG,UB,NND,CLOSE INTERACTING PAIR 6365,BARELY SEPERATE THE TWO,R=F		
Jun 23 2003	12.5"	9mmT6	VDIF,VF,PS,UB,NND,COMP=6365B,APPEARS AS ONE GAL,ELONG,R=P		
NGC 6365B	Dra			Galaxy S	
Jun 23 2003	12.5"	9mmT6	VDIF,VF,PS,UB,NND,COMP=6365A,APPEARS AS ONE GAL,ELONG,R=P		
NGC 6370	Dra			Galaxy E	VF,VS,R,B*NR N
Jun 23 2003	12.5"	9mmT6	PB,ML,R,BNUC,MOD HISB,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,PATHC,FNUC,AV,SMALL NUC,SLIGHTLY BM,COMP=6376,R=F		

Circumpolar Observations

NGC 6381	Dra		Galaxy SA(s)c?	VF,PL,E
Jun 23 2003	12.5"	9mmT6	MB,PL,OVAL,PATCH,UB,NND,SHISB,ELONG WITH AV,COMP=PGC60316,R=F	
NGC 6382	Dra		Galaxy S	PF,PS,R
Jun 24 2003	12.5"	9mmT6	PF,MS,ELONG,FNUC,SLIGHTLY BM,R=F	
NGC 6385	Dra		Galaxy SB(s)a	EF,S,R,B*S
Jun 24 2003	12.5"	9mmT6	PF,MS,PATCH,SLIGHTLY 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	
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,ELONG,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,ELONG,BNUC,MOD HISB,LARGE 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,MOD HISB,F* IN GAL,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,ELONG,PATCH,NND, GROUP OF 6,R=F	

Circumpolar Observations

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,GROUP 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,GROUP 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,GROUP 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,ELONG,*NUC,SHISB,B* CLOSE BY,R=F	
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,LARGE NUC 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,SMALL FNUC,PAIRS=MAC,R=F	
Jun 25 2003	12.5"	9mmT6	EDIF,EF,PS,AV,SUSP,LOC GOOD,GROUP 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,SMALL NUC 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,LARGE NUC,GBM,R=F	
NGC 6463	Dra		Galaxy E	EEF,S,R,VDIFFIC,20F6
Mar 26 2006	31"	17mmT4	MF,MS,R,LARGE BNUC,PAIRS=6472/6477/6470/MAC,R=F	
Jun 25 2003	12.5"	9mmT6	DIF,MV,MS,PATCH,UB,GROUP 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	

Circumpolar Observations

NGC 6466	Dra		Galaxy	EF,VS,R,BET2ST
Jun 25 2003	12.5"	9mmT6	MF,MS,PATHC,SHISB,TRI F*S AROUND GAL,R=F	
NGC 6471	Dra		Galaxy Scd:	EEF,ES,R,*NR,4TH OF6
Mar 26 2006	31"	17mmT4	PF,MS,ELONG,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,GROUP OF 5,COMP=6472,R=P	
NGC 6472	Dra		Galaxy SBb	EEF,ES,R,5TH OF6
Mar 26 2006	31"	17mmT4	MB,PS,R,SMALL BNUC,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,GROUP 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	
NGC 6477	Dra		Galaxy E/S0	EEF,ES,R,*NR,VDIFFIC
Mar 26 2006	31"	17mmT4	PF,VS,OVAL,SMALL FNUC,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,GROUP OF 5,COMPS=6472,R=P	
NGC 6478	Dra		Galaxy SAc:	PB,S,VME,SPINDLE
Jun 25 2003	12.5"	9mmT6	MF,ML,PATHC,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 GAL,R=F	
NGC 6488	Dra		Galaxy C	PF,PS,E
Jun 25 2003	12.5"	9mmT6	MF,VS,R,PATCH,2F*S AROUND GAL,R=F	
NGC 6489	Dra		Galaxy Spherical	EEF,PL,LE,BET2ST
Jun 25 2003	12.5"	9mmT6	DIF,EF,VS,PATHC,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,ELONG,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 AROUND GAL,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,ELONG,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,ELONG,UB,NND,VERY HISB,FAINT HALO BEYOND HISB REGION,R=E	
Jul 22 1981	12.5"	16mm	VERY HISB,EDGE ON,PB,PL,BRIGHT 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,SMALL FAINT * NUC,R=F	
Jun 20 1980	12.5"	24mm		

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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,SMALL FNUC,SBM,SOMEWHAT HISB,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,SMALL NUC,PATCH,PAIRS=6516/6512,R=F	
NGC 6532	Dra		Galaxy SAc	EEF,PS,R
Jun 25 2003	12.5"	9mmT6	DIF,VF,ML,ELONG,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,ELONG,PATCH,NND,R=F	
NGC 6552	Dra		Galaxy SB?	F,PS,IR
Jun 23 2003	12.5"	9mmT6	MB,PL,OVAL,FNUC,MOD HISB,SLIGHTLY BM,R=F	
NGC 6562	Dra		Galaxy C	F,PS,R,BM,BET2*
Jun 23 2003	12.5"	9mmT6	MB,ML,R,BNUC,SHISB,SMALL BRT NUC,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	

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NGC 6601	Dra		Galaxy E/S0	EF,PS,R
Jul 09 2005	31"	17mmT4	MF,PS,ELONG,LARGE BNUC,R=F	
Jul 09 2005	31"	17mmT4	MF,PS,ELONG,OVAL,LARGE FNUC,GMBM,R=F	
NGC 6607	Dra		Galaxy Sb	EF,PS,R,VDIFFIC
Jul 09 2005	31"	17mmT4	VF,MS,ELONG,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,LARGE BNUC,GMBM,BETWEEN2F*S,PAIRS=6607/6609,R=G	
Jun 23 2003	12.5"	9mmT6	MF,PS,OVAL,PAGTCH,FNUC,SHISB,SOMEWHAT 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	
NGC 6617	Dra		Galaxy SA(s)d	EEF,PL,R,VDIFFIC
Jun 24 2003	12.5"	9mmT6	SUSP,LOC GOOD,CONDITIONS EXCELLENT,R=P	
NGC 6621	Dra		Galaxy Sb: pec	PF,PS,R,LBM,S OF 2
Jul 09 2005	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,SHISB,TAPERED ENDS,COMP IN EDGE,GMBM,R=G	
Jun 23 2003	12.5"	9mmT6	MB,PL,ELONG,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,LARGE BNUC,BM,SOMEWHAT HISB,COMP=6621,INTERACTING,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,ELONG,DIF,STELL NUC SUSP,BRT 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,ELONG,BNUC,SHISB,LARGE NUC AREA,SMALL BRT NUC,R=G	
NGC 6654A	Dra		Galaxy SB(s)d pec?	
Jun 01 2003	12.5"	9mmT6	VDIF,EF,PS,ELONG,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,ELONG,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	

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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,ELONG,BNUC,SMALL BRT NUC,CLOSE COMP=6679,PAIR=IC4763,R=F	
Jun 01 2003	12.5"	9mmT6	DIF,VF,PS.OVAL,NUC,SMBM,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	
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,SMALL BRT NUC,R=G	
NGC 6732	Dra		Galaxy E?	PB,VS,R, F*N
Jun 01 2003	12.5"	9mmT6	MV,MS,OVAL,FNUC,SBM,SHISB MIDDdle,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,STELLAR,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,ELONG,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* AROUND GAL,R=F	
NGC 6763	Dra		Galaxy S0/a	EF,VS,CE,F*NR
Jun 21 2003	12.5"	9mmT6	MB,ML,ELONG,FNUC,SMALL SOFT NUC,R=F	
NGC 6764	Cyg		Galaxy SB(s)bc	PF,PL,ME,SEVVV*INV
Jun 01 2003	12.5"	9mmT6	DIF,MF,PL,ELONG,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	

Circumpolar Observations

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,SOMEWHAT HISB,R=G	
NGC 6798	Cyg		Galaxy S0	F,VS,R,*VNR
Oct 12 2012	36"	17mmT4	PB,ML,OVAL LARGE BNUC,HISB MIDDLE,GMBM,R=FG	
Jun 21 2003	12.5"	9mmT6	MB,MS,OVAL,R,BNUC,MOD HISB,GMBM,R=F	
Jul 06 2002	12.5"	16mm	EDIF,EF,PS,ELONG,PATCH,COMES AND GOES WITH AVERTED VISION,2F*S OFF ONE EDGE	
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 GAL AND AROUND GAL,R=F	
NGC 6817	Dra		Galaxy Sbc	EEF,PS,LE
Jul 09 2005	31"	17mmT4	MF,PS,OVAL,LARGE FNUC,2-3VF*S ON EDGE,PATCH OR PART DET OFF CENTER,R=F	
NGC 6824	Cyg		H878-2 Galaxy SA(s)b:	PB,IF,BM
Oct 12 2012	36"	17mmT4	MB,ML,OVAL.LARGE NUC,MHISB,VF* OUTER EDGE IN GAL,GRADUALLY BRT IN MIDDLE,R=FG	
Jun 21 2003	12.5"	9mmT6	VB,VL,BNUC,VERY HISB,F* OFF TO EDGE,LARGE BRT NUC,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 CENTER OF GAL,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,ELONG,NND,SHISB,* OFF CENTER,R=F	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,PS,ELONG,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,LARGE FNUC,SHISB,R=F	
Jun 22 2003	12.5"	9mmT6	MB,ML,OVAL,FNUC,SOMEWHAT BM,SMALL NUC DET,PAIR=6829,R=F	
Jun 21 2003	12.5"	9mmT6	MF,ML,R,FNUC,SOMEWHAT HISB,SMALL FAINT NUC,R=G	
NGC 6869	Dra		Galaxy S0	PB,PS,R
Oct 12 2012	36"	17mmT4	MB,ML,R,LARGE BNUC,MOD HISB,GRANULAR HALO AROUND NUC,R=FG	
Jun 22 2003	12.5"	9mmT6	PB,PL,OVAL,UB,MOD HISB,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,VSFAINT NUC,F* IN PLAIN OF GAL,R=F	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,PS,PATCH,UB,NND,AV COMES AND GOES,2F*S IN GAL,R=P	

Circumpolar Observations

NGC 6946	Cep	H76-4	Galaxy SAB(rs)cd	VF,VL,VG,VSBM,RR
Sep 12 2012	36"	17mmT4	PB,VL,SMALL BNUC, SPIRAL ARMS, KNOTS IN ARMS DET, H2 REGIONS DET, R=E	
Jun 22 2003	12.5"	9mmT6	VB,EL,R,NND,SHISB,AREAS OF PATCHES DET, SEVERAL *S IN GAL, R=E	
Jul 09 1983	12.5"	24mm	MF,VL,OVAL,3B*S TO ONE SIDE, SEVERAL F*S IN GAL, SPR STR SUSP, PAIR/6939	
Aug 14 1982	12.5"	16mm	EDIF,MF,PL,PATCHY,OVAL,NND,STARS IN GAL,SEE CARD FOR DRAWING	
Jun 06 1981	12.5"	16mm	DIF,VL,MB,SOME SPR STR DET,FACE ON,SEVEAL *S IN GAL,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,SOMEWHAT HISB MIDDLE,SLIGHTLY BM,* OR *S IN CENTER,R=F	
Jun 22 2003	12.5"	9mmT6	VDIF,VF,ML,OVAL,PATCH,UB,NND,AV,LOC IN RICH * FOV,R=P	
NGC 6952	Cep		Galaxy SAB(rs)bc	PB,OVAL,DIF,*15NR F
Sep 12 2012	36"	17mmT4	MB,MS,OVAL,SMALL BNUC,FT HALO AROUND NUC,SOME SPR STR,HISB MIDDLE,3 VF*S IN ARMS	
Jun 22 2003	12.5"	9mmT6	MB,PL,OVAL,BNUC,SHISB,SMBM,AREAS OF BRT REGIONS AROUND 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,BRT NUC,R,F* OFF E SIDE	
Jun 06 1981	12.5"	16mm	DIF,MF,ML,DNUC,FAINT HALO,14* IN OR AROUND GAL	