

Coma Berenices - Berenice's Hair

IC	755		Galaxy
Apr 19 2014	36"	17mmT4	MF,MS,EDGE ON,UB,NND,PA~140,SLIGHTLY THICKER IN MIDDLE,R=F
IC	803		Galaxy S
Mar 17 2009	31"	17mmT4	VF,VS,OVAL,PATCH,NND,CAN BARELY SEPERATE WITH MAC1239+1635C,OTHERS,R=F
IC	834		Galaxy S
May 18 2009	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,AGC 1656,R=F
IC	835		Galaxy S?
May 18 2009	31"	17mmT4	MB,ML,PATCH,UB,NND,MOD HISB,AGC 1656,R=G
IC	3292		Galaxy L
Mar 08 2010	31"	17mmT4	PF,PS,OVAL,LARGE FNUC,R=F
IC	3900		Galaxy SB0:
May 18 2009	31"	17mmT4	MB,MS,R,LARGE BNUC,AGC 1656,R=G
IC	3913		Galaxy S?
May 18 2009	31"	17mmT4	DIF,PF,MS,OVAL,PATCH,UB,NND,AGC 1656,R=F
IC	3955		Galaxy SA0
May 14 2009	31"	17mmT4	MF,MS,SMALL BNUC,AGC 1656,R=F
IC	3973		Galaxy SB0
May 14 2009	31"	17mmT4	MB,PS,OVAL,SMALL BNUC,AGC 1656,R=F
IC	3976		Galaxy E6
May 14 2009	31"	17mmT4	PF,PS,OVAL,SMALL BNUC,AGC 1656,R=F
IC	3998		Galaxy SB0
May 14 2009	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,AGC 1656,R=F
IC	4011		Galaxy E
May 14 2009	31"	17mmT4	PF,PS,SMALL FNUC,AGC 1656,R=F
MAC	1204+2009		Galaxy
Mar 08 2010	31"	17mmT4	VF,VS,PATCH,UB,NND,TOOK AV A WHILE TO HOLD,PAIRS=NGC'S/PGC,R=P
MAC	1204+2013		Galaxy
Mar 08 2010	31"	17mmT4	PF,PS,OVAL,UB,NND,PAIR=4076,R=F
MAC	1204+2023A		Galaxy
Mar 08 2010	31"	17mmT4	VF,VS,PATCH,NND,AV TOOK A WHILE THEN HOLDS,PAIRS=NGC'S,R=P
MAC	1212+2908		Galaxy
Mar 17 2009	31"	17mmT4	EF,ES,SUSP,OFF TIP OF NGC4174,CLOSE COMP=MAC,R=P

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MAC 1213+1607		Galaxy
Mar 17 2009 31"	17mmT4	VF,MS,OVAL,*NUC,BRT REGION OR VERY SMALL NUC,MORE OVAL THAN PGC39014,R=F
MAC 1213+1609		Galaxy
Mar 17 2009 31"	17mmT4	EF,VS,PATCH,NND,AV HOLDS,R=P
MAC 1218+1422		Galaxy
Mar 08 2010 31"	17mmT4	EF,VS,PATCH,COMES AND GOES WITH AV,PAIR=4254,R=P
MAC 1239+1635B		Galaxy
Mar 17 2009 31"	17mmT4	EF,ES,SUSP ONLY,AREA OF EF NEB BETWEEN IC803 AND MAC1239+1635C,R=P
MAC 1239+1635C		Galaxy
Mar 17 2009 31"	17mmT4	VF,VS,SMALL BNUC,CAN BARELY SEPERATE WITH IC803,OTHERS,R=F
MAC 1239+1635D		Galaxy
Mar 17 2009 31"	17mmT4	EF,ES,SUSP ONLY,R=P
MAC 1250+2718		Galaxy
May 14 2009 31"	17mmT4	EF,VS,PATCH,AV ONLY A FEW TIMES,R=P
MAC 1250+2722		Galaxy
May 14 2009 31"	17mmT4	VF,PS,PATCH,CLOSE TO F*,R=P
MAC 1250+2729		Galaxy
May 14 2009 31"	17mmT4	VF,VS,PATCH,R=P
MAC 1251+2724B		Galaxy
May 14 2009 31"	17mmT4	VF,VS,PATCH,AV FIRST,COMES AND GOES,R=P
MAC 1251+2732		Galaxy
May 17 2009 31"	17mmT4	EF,VS,PATCH,AV ONCE,VERY CLOSE TO B*,AGC1656,R=P
MAC 1251+2758		Galaxy
May 14 2009 31"	17mmT4	EF,ES,PATCH,AV COMES AND GOES,AGC 1656,R=P
MAC 1252+2705		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,UB,NND,AGC1656,R=P
MAC 1252+2709		Galaxy
May 17 2009 31"	17mmT4	EF,VS,PATCH,NND,AV COMES AND GOES,AGC1656,R=P
MAC 1252+2824		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,UB,NNDAGC1656,R=P
MAC 1253+2657		Galaxy
May 17 2009 31"	17mmT4	VF,VS,ELONG,UB,NND,AGC1656,R=F

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MAC 1253+2702		Galaxy
May 17 2009 31"	17mmT4	VF,VS,PATCH,NND,AGC1656,R=P
MAC 1253+2747		Galaxy
May 17 2009 31"	17mmT4	MB,MS,ELONG,LARGE FNUC,A BRIGHT MAC,AGC1656,R=F
MAC 1253+2812		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,AGC1656,R=P
MAC 1253+2856		Galaxy
May 17 2009 31"	17mmT4	EF,VS,PATCH,AV ONLY ONCE OR TWICE,AGC1656,R=P
MAC 1254+2737		Galaxy
May 17 2009 31"	17mmT4	MF,MS,ELONG,UB,NND,NICE MAC,AGC1656,R=F
MAC 1254+2804		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,AGC1656,R=P
MAC 1254+2805A		Galaxy
May 17 2009 31"	17mmT4	PF,PS,SMALL BNUC,AGC1656,R=F
MAC 1254+2805B		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,AGC1656,R=P
MAC 1254+2818		Galaxy
May 17 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,KEEP B* OUT OF FOV,AGC1656,R=P
MAC 1254+2855		Galaxy
May 17 2009 31"	17mmT4	EF,VS,PATCH,SUSP,COMP=4793,AGC1656,R=P
MAC 1255+2732		Galaxy
May 17 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC1656,R=P
MAC 1255+2736		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,AV TOOK A WHILE,HOLDS,AGC1656,R=P
MAC 1255+2736A		Galaxy
May 18 2009 31"	17mmT4	VF,PS,PATCH,NND,AV FIRST THEN HOLDS,AGC 1656,R=P
MAC 1255+2742		Galaxy
May 17 2009 31"	17mmT4	EF,PS,PATCH,NND,AV TOOK A WHILE,AGC1656,R=P
MAC 1255+2746		Galaxy
May 17 2009 31"	17mmT4	EF,VS,PATCH,AV TOOK A WHILE,AGC1656,R=P
MAC 1255+2747		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,CLOSE TO B*,AGC1656,R=P

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MAC 1255+2748 Galaxy
 May 17 2009 31" 17mmT4 EF,VS,PATCH,KEEP * OUT OF FOV,AV COMES AND GOES,AGC1656,R=P

MAC 1255+2751 Galaxy
 May 17 2009 31" 17mmT4 PF,PS,PATCH,UB,NND,AGC1656,R=P
 May 17 2009 31" 17mmT4 VF,PS,UB,NND,KEEP * OUT OF FOV,AGC1656,R=P

MAC 1255+2754A Galaxy
 May 17 2009 31" 17mmT4 PF,PS,OVAL,LARGE FNUC,AGC1656,R=F

MAC 1255+2754B Galaxy
 May 17 2009 31" 17mmT4 VF,PS,PATCH,UB,NND,AGC1656,R=P

MAC 1255+2756 Galaxy
 May 18 2009 31" 17mmT4 VF,PS,PATCH,NND,AGC 1656,R=P
 May 17 2009 31" 17mmT4 VF,PS,OVAL,UB,NND,VERY F* OFF SIDE,AGC1656,R=P

MAC 1255+2815 Galaxy
 May 18 2009 31" 17mmT4 PF,PS,PATCH,UB,NND,AGC 1656,R=P

MAC 1255+2824 Galaxy
 May 18 2009 31" 17mmT4 EF,VS,PATCH,AV COMES AND GOES,AGC 1656,R=P

MAC 1255+2900 Galaxy
 May 18 2009 31" 17mmT4 PF,PS,PATCH,NND,AV FIRST THEN HOLDS,AGC 1656,R=P

MAC 1256+2624 Galaxy
 May 19 2009 31" 17mmT4 VF,PS,PACH,UB,NND,AGC 1656,R=P

MAC 1256+2625 Galaxy
 May 19 2009 31" 17mmT4 EF,VS,PATCH,AV COMES AND GOES,AGC 1656,R=P

MAC 1256+2627 Galaxy
 May 18 2009 31" 17mmT4 EF,VS,PATCH,AV ONLY A FEW TIMES,AGC 1656,R=P

MAC 1256+2703 Galaxy
 May 19 2009 31" 17mmT4 PF,PS,OVAL,SMALL FNUC,AGC 1656,R=F

MAC 1256+2713 Galaxy
 May 19 2009 31" 17mmT4 PF,PS,PATCH,UB,NND,AGC 1656,R=P

MAC 1256+2717 Galaxy
 May 19 2009 31" 12mmT4 EF,VS,PATCH,TOOK A WHILE WITH AV,COMES AND GOES,AGC 1656,R=P

MAC 1256+2725 Galaxy
 May 18 2009 31" 17mmT4 MF,MS,LARGE FNUC,AGC 1656,R=F

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MAC 1256+2726		Galaxy
May 18 2009 31"	17mmT4	PF,PS,NND,AGC 1656,R=F
MAC 1256+2730		Galaxy
May 18 2009 31"	17mmT4	VF,PS,PATCH,NND,AV TOOK A WHILE,AGC 1656,R=P
MAC 1256+2732		Galaxy
May 18 2009 31"	17mmT4	EF,VS,PATCH,AV COMES AND GOES THEN HOLDS,AGC 1656,R=P
MAC 1256+2738		Galaxy
May 18 2009 31"	17mmT4	MF,MS,R,SMALL FNUC,VF* OFF SIDE,AGC 1656,R=F
MAC 1256+2741		Galaxy
May 18 2009 31"	17mmT4	VF,PS,PATCH,AGC 1656,R=P
MAC 1256+2742		Galaxy
May 18 2009 31"	17mmT4	EF,PS,PATCH,AV COMES AND GOES,AGC 1656,R=P
MAC 1256+2743		Galaxy
May 18 2009 31"	17mmT4	PF,PS,PATCH,SMALL FNUC,AGC 1656,R=P
MAC 1256+2749		Galaxy
May 18 2009 31"	17mmT4	MF,MS,OVAL,SMALL FNUC,AGC 1656,R=F
MAC 1256+2750		Galaxy
May 18 2009 31"	17mmT4	MF,MS,OVAL,SMALL FNUC,AGC 1656,R=F
May 17 2009 31"	17mmT4	PF,PS,PATCH,UB,NND,AGC1656,R=F
MAC 1256+2755		Galaxy
May 19 2009 31"	17mmT4	PF,PS,R,SMALL BNUC,AGC 1656,R=F
MAC 1256+2757		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,UB,NND,AGC1656,R=P
MAC 1256+2802		Galaxy
May 18 2009 31"	17mmT4	VF,PS,PATCH,AV COMES AND GOES THEN HOLDS,LOC IN BARRON FOV,AGC 1656,R=P
MAC 1256+2803		Galaxy
May 19 2009 31"	17mmT4	VF,PS,PATCH,NND,AGC 1656,R=P
MAC 1256+2804		Galaxy
May 19 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=P
MAC 1256+2806		Galaxy
May 19 2009 31"	17mmT4	EF,VS,PATCH,TOOK A WHILE WITH AV,COMES AND GOES,AGC 1656,R=P
MAC 1256+2809		Galaxy

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MAC 1256+2809 Galaxy
 May 19 2009 31" 17mmT4 PF,VS,PATCH,NND,AGC 1656,R=P

MAC 1256+2818 Galaxy
 May 18 2009 31" 17mmT4 PF,PS,PATCH,NND,AGC 1656,R=P

MAC 1256+2837 Galaxy
 May 19 2009 31" 17mmT4 PF,PS,OVAL,FNUC,AGC 1656,R=F

MAC 1256+2838 Galaxy
 May 19 2009 31" 17mmT4 EF,VS,PATCH,COMES AND GOES WITH AV,AGC 1656,R=P

MAC 1256+2857 Galaxy
 May 19 2009 31" 17mmT4 VF,PS,PATCH,NND,AV,AGC 1656,R=P

MAC 1256+2917 Galaxy
 May 19 2009 31" 17mmT4 PF,PS,PATCH,UB,NND,AGC 1656,R=F

MAC 1257+2722A Galaxy
 May 19 2009 31" 17mmT4 VF,PS,OVAL,NND,AGC 1656,R=P

MAC 1257+2724A Galaxy
 May 19 2009 31" 17mmT4 VF,PS,OVAL,SMALL FNUC,AGC 1656,R=P

MAC 1257+2731 Galaxy
 May 19 2009 31" 17mmT4 EF,PS,PATCH,TOOK A WHILE FOR AV,COMES AND GOES,BARRON AREA,AGC 1656,R=P

MAC 1257+2733 Galaxy
 May 19 2009 31" 17mmT4 EF,ES,PATCH,SUSP,AGC 1656,R=P

MAC 1257+2858 Galaxy
 May 19 2009 31" 17mmT4 PF,PS,PATCH,UB,VERY SMALL FNUC,AGC 1656,R=P

MAC 1259+2751B Galaxy
 May 14 2009 31" 17mmT4 EF,VS,PATCH,AV FEW TIMES THEN COMES AND GOES,AGC 1656,R=P

MAC 1259+2751D Galaxy
 May 14 2009 31" 17mmT4 VF,VS,PATCH,SMALL FNUC,AGC 1656,R=F

MAC 1259+2758B Galaxy
 May 14 2009 31" 17mmT4 EF,VS,PATCH,AV ONLY ONCE,AGC 1656,R=P

MAC 1301+2736B Galaxy
 Apr 07 2008 31" 17mmT4 VF,VS,PATCH,UB,NND,PAIRS=4926/4926A/MAC,R=P

MAC 1302+2739 Galaxy
 Apr 07 2008 31" 17mmT4 EF,VS,PATCH,UB,NND,AV HOLDS,PAIRS=4926/4926A/MAC,R=P

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MAC 1303+2810C		Galaxy	
Apr 07 2008 31"	17mmT4	EF,ES,*NUC,ALMOST STELLAR,PAIRS=4944/MAC'S/PGC45162,R=P	
MAC 1303+2811		Galaxy	
Apr 07 2008 31"	17mmT4	DIF,VF,VS,PATCH,UB,NND,PAIRS=4944/PGC/MAC'S,R=P	
MAC 1304+2811		Galaxy	
Apr 07 2008 31"	17mmT4	VF,VS,OVAL,VERY SMALL FNUC,PAIRS=4944/PGC45162/MAC'S,R=P	
MAC 1314+2604		Galaxy	
Mar 17 2010 31"	17mmT4	VF,VS,PATCH,AV FIRST THEN HOLDS,PAIRS=MAC'S,R=P	
MAC 1314+2605		Galaxy	
Mar 17 2010 31"	17mmT4	VF,VS,AV FIFRST THEN HOLDS,DIRECT AFTER A WHILE,PAIRS=MAC'S/PGC'S,R=P	
Mar 20 2009 31"	17mmT4	VF,VS,PATCH,TOOK AV A WHILE TO FIND,PAIRS=PGC'S,R=P	
MAC 1314+2606		Galaxy	
Mar 17 2010 31"	17mmT4	EF,VS,PATCH,AV FIRST THEN HOLDS,PAIRS=MAC'S,R=P	
MAC 1314+2606A		Galaxy	
Mar 17 2010 31"	17mmT4	VF,VS,PATCH,NND,VF* OFF EDGE,PAIRS=MAC'S,R=P	
MAC 1314+2606B		Galaxy	
Mar 17 2010 31"	17mmT4	VF,VS,PATCH,AV FIRST THEN HOLDS,PAIRS=MAC'S,R=P	
NGC 4015		H323-3 Galaxy Double System	F,VS,E,MBM
Mar 17 2009 31"	17mmT4	VB,VL,R,LARGE BNUC,INTER=PGC37702,SMBM,MOD HISB MIDDLE,R=G	
Dec 28 2008 31"	17mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,BM,R=G	
NGC 4016		Galaxy SBdm:	VF
Dec 28 2008 31"	17mmT4	MB,ML,OVAL,PATCH,UB,NND,MOD HISB,PAIR=4017,R=G	
NGC 4017		H369-2 Galaxy SABbc	F,L,E,GBFM
Dec 28 2008 31"	17mmT4	PB,PL,ELONG,OVAL,UB,NND,PATCHY,PAIR=4016,R=G	
NGC 4032		H404-2 Galaxy Im:	PF,PL,R,GBM,*12NF
Feb 27 1982 12.5"	16mm	VDIF,MF,MS,OVAL-PATCHY,SBM,F*W OF GAL	
NGC 4042		Galaxy	VF,VS
Aug 25 1982 12.5"	16mm	VDIF,MF,MS,FNUC,2F*S E,1*N A ND W,OVAL,R,SBM	
NGC 4056		Galaxy	EF,VS
Mar 08 2010 31"	17mmT4	VF,VS,PATCH,NND,AV FIRST THEN HOLDS,PAIRS=NGC'S/MAC,R=P	
NGC 4060		Galaxy S0	EF
Mar 08 2010 31"	17mmT4	PF,PSOVAL,LARGE FNUC,PARIS=NGC'S/MAC,R=F	

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NGC 4061		Galaxy E	VF,S,R,P OF DNEB
Mar 08 2010 31"	17mmT4	MB,ML,OVAL,R,SMALL BNUC,GMBM,HISB MIDDLE,PAIRS=NGC'S/PGC/MAC,R=G	
NGC 4064		Galaxy SB(s)a: pec	B,E,GBM
Feb 27 1982 12.5"	16mm	MF,MS,ELONG,F*S,F* FARTHER N,MOD HISB,EQ REGION SUSP	
NGC 4065		H395-3 Galaxy E	PF,R,F OF DNEB
Mar 08 2010 31"	17mmT4	MB,ML,OVAL,R,SMALL BNUC,GMBM,HISB MIDDLE,PAIRS=NGC'S/PGC/MAC,R=G	
NGC 4066		Galaxy E	PB
Mar 08 2010 31"	17mmT4	PB,ML,OVAL,SMALL BNUC,GMBM,HISB MIDDLE,PAIRS=NGC'S/MAC,R=G	
NGC 4069		H392-3 Galaxy	VF,VS
Mar 08 2010 31"	17mmT4	VF,VS,OVAL,VF* IN GAL,PAIRS=NGC'S,MAC,R=P	
NGC 4070		Galaxy E	F,VS
Mar 08 2010 31"	17mmT4	PB,ML,OVAL,SMALL BNUC,GMBM MIDDLE,PAIRS=NGC'S/MAC,R=G	
NGC 4072		Galaxy S0	EF,SF4061,2,5
Mar 08 2010 31"	17mmT4	PF,MS,ELONG,VERY SMALL FNUC,PAIRS=NGC'S/PGC/MAC,R=F	
NGC 4074		H393-3 Galaxy S0: pec	EF,VS
Mar 08 2010 31"	17mmT4	MB,MS,R,SMALL BNUC,PAIRS=NGC'S/MAC,R=F	
NGC 4076		H396-3 Galaxy S?	VF,VS
Mar 08 2010 31"	17mmT4	MB,ML,OVAL,LARGE FNUC,SOMEWHAT BM,SLIGHTLY HISB MIDDLE,PAIR=MAC,R=F	
NGC 4136		H321-2 Galaxy SAB(r)c	F,VL,VGMBM
Feb 27 1982 12.5"	16mm	DIF,MF,PL,PATCHY,FACE ON,ARMS SUSP,UB,OVAL	
Jan 26 1982 12.5"	16mm	MB,ML,FNUC,CLOSE TO B*,STELL NUC,HISB,OVAL	
NGC 4147		H19-1 Globular	GCL,VB,PL,R,GBM,RRR
Mar 08 2010 31"	17mmT4	PB,ML,TYPE APPROX VI,RESOLVED TO CORE,SBNUC,MOD HISB MIDDLE,F HALO OF *S RESOLVED,R=G	
Feb 12 1983 12.5"	12mm	MB,PL,RESOLVED TO CORE,OUTER *S CLOSELY GROUPED,BM	
Jun 10 1980 6"	24mm	VF,LOOKS LIKE FAINT GAL	
NGC 4150		H73-1 Galaxy SA(r)0^?	B,S,R,PGMBM
Feb 27 1982 12.5"	16mm	MF,MS,BNUC,GMBM,R	
NGC 4152		H83-2 Galaxy SAB(rs)c	PB,PL,R,PGMBM,R
Feb 27 1982 12.5"	16mm	VDIF,VF,VS,PATCHY,OVAL,SBM	
NGC 4155		Galaxy E	EF,VS
Feb 27 1982 12.5"	16mm	EDIF,EF,ES,SMALL PATCH,STELL NUC SUSP	
NGC 4158		H405-2 Galaxy SA(r)b:	F,PS,LE,BM,PB*SF

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NGC 4158		H405-2	Galaxy SA(r)b:	F,PS,LE,BM,PB*SF
Feb 27 1982 12.5"	16mm		MF,PS,BNUC,HISB,GMBM,*W 1 GAL DIA	
NGC 4162		H353-2	Galaxy (R)SA(rs)bc	B,L,IE,BM
Feb 27 1982 12.5"	16mm		DIF,MF,PS,B*S,F*N,MOD HISB,NNS,R	
NGC 4166			Galaxy SB0	VF,S
Feb 27 1982 12.5"	16mm		MF,PS,FNUC,R,F*N,SBM	
NGC 4169		H358-3	Galaxy S0	F,S,1ST OF 4
May 30 2014 36"	17mmT4		PB,ML,OVAL,LBNUC,GMBM,GRANULAR CORE,PAIRS=4171,4175,4174,R=GE	
Mar 17 2009 31"	17mmT4		VB,VL,OVAL,LARGE BNUC,HISB MIDDLE,OTHERS PRESENT,EXCELLENT GROUP,R=E	
Feb 27 1982 12.5"	16mm		PF,VS,BNUC,F*S 1 GAL DIA,SBM,R,CLOSE PAIR/4170/4175 IN TRI SHAPE	
NGC 4171			Galaxy SBd:	F,S,2ND OF 4
May 30 2014 36"	17mmT4		MF,VL,EDGE ON,UB,NND,PA~130,LONG THIN WHISP,BROKEN,CHUNKY,PAIRS=4175,4174,4169,R=G	
Mar 17 2009 31"	17mmT4		MF,VL,EDGE ON,UB,NND,SLIGHT TAPPERING AT ENDS,OTHERS,EXCELLENT GROUP,R=G	
Feb 27 1982 12.5"	16mm		EDIF,VF,VS,ELONG,PAIR/4175/4169,NND,UB,COMP FORM TRI	
NGC 4174		H359-3	Galaxy S?	F,S,3RD OF 4
May 30 2014 36"	17mmT4		PB,PL,OVAL,SBNUC,PAIRS=4171,4175,4169,R=G	
Mar 17 2009 31"	17mmT4		PB,PL,ELONG,BNUC,TIGHT NUC REGION,OTHERS PRESENT,EXCELLENT GROUP,R=G	
NGC 4175		H360-3	Galaxy S	F,ES,4TH OF 4
May 30 2014 36"	17mmT4		MB,PL,EDGE ON,SFNUC,SOMEWHAT SLIGHT CENTRAL BULGE,PAIRS=4171,4174,4169,R=G	
Mar 17 2009 31"	17mmT4		MB,ML,EDGE ON,LARGE FNUC,CENTRAL BULGE,OTHERS,EXCELLENT GROUP,R=G	
Feb 27 1982 12.5"	16mm		VF,VS,ELONG,FNUC,F*S,UB,SBM,COMP FORM TRI	
NGC 4185		H373-2	Galaxy Sbc	CF,L,R,GBM
Feb 27 1982 12.5"	16mm		VDIF,VF,ML,F*SW EDGE,NND,UB,R,FACE ON	
NGC 4186			Galaxy SA(s)ab:	PF,S,R,SP M98
Apr 11 2015 36"	17mmT4		MB,MS,OVAL,VS*NUC,STELLAR LIKE NUC,R=FG	
Mar 08 2010 31"	17mmT4		MF,MS,OVAL,LARGE VERY FNUC,R=F	
NGC 4189		H106-2	Galaxy SAB(rs)cd?	F,L,LE,VGLBM,R
Apr 25 1981 12.5"	24mm		PB,PS,DNUC,2F*S TO W	
NGC 4192	M98		Galaxy SAB(s)ab	B,VL,VME152,VSVMBM
Apr 11 2015 36"	17mmT4		VF,VL,ELONG,SBNUC,MHISB,WELL PLACED,DUST AREAS SUSP,BROKEN ARMS,R=E	
Mar 08 2010 31"	17mmT4		VB,VL,ELONG EDGE ON,SMALL BNUC,EDGE TO EDGE IN FOV,SMALL B TIGHT CORE,SUDDENLY MBM,PATCHY AREAS IN ARMS,R=E	
Mar 19 2004 12.5"	12mmT4		MESSIER MARATHON 2004	
Mar 02 1984 10"	20mm		SAME	
Feb 27 1982 12.5"	16mm		MB,PL,EDGE ON,BNUC,F*N OF NUC,CENTRAL BULGE,TAPPERED ENDS,BRT H2 REGIONS IN EQ	
Mar 27 1981 12.5"	24mm		MESSIER MARATHON 1981	
Jun 10 1980 6"	24mm			

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NGC 4196		H374-2	Galaxy S0?	PB,S,R,VSMBM*
Feb 27 1982	12.5"	16mm	EDIF,VF,ML,F*W SIDE,OVAL,NND	
NGC 4203		H175-1	Galaxy SAB0-:	VB,S,R,PSMBM
Feb 27 1982	12.5"	16mm	MB,PS,BNUC,R,GBM	
NGC 4211			Galaxy S0/a pec	VF,ES,MBM
Apr 07 2008	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,CLOSE COMP=4211A,R=F	
NGC 4211A			Galaxy S0/a pec	
Apr 07 2008	31"	17mmT4	PF,PS,ELONG,UB,NND,CLOSE COMP=4211,R=F	
NGC 4212		H108-2	Galaxy SAc:	B,L,E107,G,SBM,R
Feb 27 1982	12.5"	16mm	DIF,MF,PL,B*S,PATCH-OVAL,NND,UB	
NGC 4213		H354-2	Galaxy E	CF,VS,R
Feb 27 1982	12.5"	16mm	VDIF,VF,ES,FNUC,STELL NUC,B* IN FIELD	
NGC 4222		H109-2	Galaxy Sd: sp	VF,PS,R
Mar 08 2010	31"	17mmT4	MF,ML,EDGE ON,UB,NND,TAPPERED ENDS,R=FG	
NGC 4237		H11-2	Galaxy SAB(rs)bc	PB,PL,LE,VGBM,R
Mar 22 2004	12.5"	12mmT4	MF,PL,OVAL,LARGE FNUC,SHISB,LOC IN BARRON FOV,R=G	
NGC 4239			Galaxy E	F,PL,R
Feb 27 1982	12.5"	16mm	DIF,MF,PS,FNUC,BETWEEN B*S,SBM	
NGC 4245		H74-1	Galaxy SB(r)0/a:	CB,PL,VLE,SMBM,R
Feb 27 1982	12.5"	16mm	MB,ML,BNUC,R,SMALL NUC	
NGC 4251		H89-1	Galaxy SB0? sp	VB,S,E,VSVMBMN,*F90S
Feb 27 1982	12.5"	16mm	ELONG,BNUC,GMBM	
NGC 4254	M99		Galaxy SA(s)c	B,L,R,GBM,R,3BRSPIRA
Apr 11 2015	36"	17mmT4	VB,VL,R,HALO WIHT SPR ARMS,FOST MOD LNUC,BAR LIKE NUC,NUC ELONG IN SHAPE,2 ARMS EASILY DET,R=E	
Mar 08 2010	31"	17mmT4	PB,PL,SBNUC,FACE ON,GRADUALLY BM,SPIRAL ARMS,SPIRAL STRUCTURE,PATCHY AREAS IN ARMS,PAIR=MAC,R=E	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	MB,ML,ELONG,PATCHY,SBM,MOD HISB	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980	6"	24mm		
NGC 4274		H75-1	Galaxy (R)SB(r)ab	VB,VL,E90,MBMN
Feb 12 1983	12.5"	24mm	MB,PL,ELONG,BNUC,TAPPERED ENDS,PAIR/4278/4283	
Feb 27 1982	12.5"	16mm	MB,VL,ELONG,BNUC,FAINT HALO,SMALL NUC,DIF HALO AROUND NUC	
NGC 4278		H90-1	Galaxy E1-2	VB,PL,R,MBM,R,1STOF3

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NGC 4278 Feb 12 1983 12.5" 16mm	H90-1 MB,ML,BNUC,R,VMBM,COMP TO E = 4283	Galaxy E1-2	VB,PL,R,MBM,R,1STOF3
NGC 4283 Feb 12 1983 12.5" 16mm	H323-2 VDIF,VF,VS,R,NND,UB,COMP TO W = 4278	Galaxy E0	B,S,R,BM,2ND OF 3
NGC 4293 Mar 08 2010 31" 17mmT4 Feb 12 1983 12.5" 16mm Jun 10 1980 6" 24mm	H5-5 MB,PL,ELOIG,EDGE ON,LARGE FNUC,SOME GRANULAR AREAS DET,R=G DIF,PF,ML,F*E TIP,NND,KNTS SUSP,UB,SEVERAL *S OFF ONE SIDE	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
NGC 4298 Apr 26 2003 12.5" 9mmT6	H111-2 VB,VL,R,UB,NND,MOD HISB,BRT * ON EDGE,PAIR=4302,R=E	Galaxy SA(rs)c	F,L,E,VGBM,P OF 2
NGC 4302 Apr 26 2003 12.5" 9mmT6	H112-2 PB,PL,EDGE ON,PATCH,UB,NND,SOMEWHAT HISB,PAIR=4298,R=E	Galaxy Sc	L,VME177,F OF 2
NGC 4310 Apr 26 2003 12.5" 9mmT6	H378-2 MB,ML,OVAL,PATCH,UB,SOMEWHAT HISB,R=G	Galaxy SB0	F,CL,LE,N OF 2
NGC 4312 Apr 26 2003 12.5" 9mmT6	H628-2 MB,PL,EDGE ON,UB,SOMEWHAT HISB,CENTRAL PART OF GAL HISB,TIPS FAINTER,R=G	Galaxy SA(rs)ab: sp	PB,CL,E,GBM
NGC 4314 Feb 12 1983 12.5" 24mm	H76-1 PB,ML,EDGE ON,BNUC,F*N TIP,BM,TAPPED	Galaxy SB(rs)a	CB,L,E150,SBM,*NP
NGC 4321 Apr 11 2015 36" 17mmT4 Mar 08 2010 31" 17mmT4 Mar 19 2004 12.5" 12mmT4 Mar 02 1984 10" 20mm Mar 27 1981 12.5" 24mm Jun 10 1980 6" 24mm	M100 EB,EL,R,MOD HISB NUC,NUC LOOKS LIKE BRT BLUEISH PL WELL DEF,F ARMS EASILY DET,SEVERAL *S IN ARMS,FT HALO AROUND NUC,FACE ON,R=E VG,VL,OVAL,SPR STR,DUST,PATCHY H2 REGIONS,FACE ON,VERY R NUC,UB NUC,MOD HISB NUC,NUC WELL DEFINED,MANY F*S IN ARMS,PAIR=4323,R=E MESSIER MARATHON 2004 MB,VL,BNUC,FACE ON,R-OVAL,SMALL BRT NUC,F*NW OUTER EDGE MESSIER MARATHON 1981	Galaxy SAB(s)bc	PF,VL,R,VG,PSBMRN
NGC 4323 Mar 08 2010 31" 17mmT4	H84-2 DIF,VF,PS,PATCH,UB,NND,PAIR=4321,R=P	Galaxy SB(r)0^:	2VF,N OF M100
NGC 4328 Mar 08 2010 31" 17mmT4	H84-2 PF,PS,OVAL,UB,NND,R=F	Galaxy SA0-:	F,S,R,R
NGC 4336 Apr 26 2003 12.5" 9mmT6	H406-2 VB,PL,OVAL,UB,VERY HISB,R=E	Galaxy SB0/a	VF,PL,IR,(BIN)
NGC 4338 May 30 2014 36" 17mmT4	H84-2 VF,MS,EDGE ON,NND,PA~0 OR 180,R=P	Galaxy Sd	VF,LE,COM

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NGC 4340		H85-2	Galaxy SB(r)0+	PB,S,R,PSBM
Feb 12 1983	12.5" 24mm		MB,PS,DNUC,SBM,OVAL,PAIR/4350	
NGC 4350		H86-2	Galaxy SA0 sp	CB,VS,ME,VSBM
Feb 12 1983	12.5" 24mm		MB,PS,BNUC,SBM,OVAL,CLOSE PAIR/4340	
Mar 27 1981	12.5" 24mm			
NGC 4359		H648-3	Galaxy SB(rs)c? sp	CF,PME90,VLBM
Mar 22 2004	12.5" 12mmT4		PF,ML,ELONG,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,R=E	
NGC 4379		H87-2	Galaxy S0- pec:	PS,R,PSBMN
Mar 22 2004	12.5" 12mmT4		PF,MS,R,LARGE BNUC,SHISB,HISB MIDDLE,GMBM,R=G	
NGC 4382	M85		Galaxy SA(s)0+ pec	VB,PL,R,BM,*NP
Apr 11 2015	36" 17mmT4		EB,VL,OVAL,GMBM,HISB MIDDLE,MOD SNUC,FT OBLONG HALO AROUND NUC,* OFF NUC,R=G	
Mar 08 2010	31" 17mmT4		VB,VL,OVAL,SMALL BNUC,GMBM,HISB MIDDLE,GRANULAR HALO,PAIR=4394,R=G	
Mar 19 2004	12.5" 12mmT4		MESSIER MARATHON 2004	
Mar 02 1984	10" 20mm		SAME	
Feb 12 1983	12.5" 16mm		VB,ML,BNUC,F* IN N SIDE,R,BM,PAIR/4394	
Mar 27 1981	12.5" 24mm		MESSIER MARATHON 1981	
Jun 10 1980	6" 24mm			
NGC 4394		H55-2	Galaxy (R)SB(r)b	PB,LE,BM
Mar 08 2010	31" 17mmT4		MB,MS,ELONG,LARGE BNUC,MOD HISB MIDDLE,GMB,PAIR=4382,R=G	
Feb 12 1983	12.5" 16mm		MF,MS,DNUC,R,SBM,PAIR/4382	
Mar 27 1981	12.5" 24mm			
NGC 4414		H77-1	Galaxy SA(rs)c?	VB,L,E,G,VSBM*
Feb 12 1983	12.5" 16mm		VB,ML,BNUC,BM,DIF HALO,SLIGHTLY ELONG,NO *S ON EDGE LIKE PHOTO	
NGC 4419		H113-2	Galaxy SB(s)a sp	B,PME135,SBM
Feb 12 1983	12.5" 16mm		MB,PS,EDGE ON,FNUC,SBM,TAPPERED	
Mar 27 1981	12.5" 24mm			
NGC 4448		H91-1	Galaxy SB(r)ab	B,L,E90,SBM
Feb 12 1983	12.5" 16mm		MF,MS,FNUC,SLIGHTLY ELONG,MOD HISB,SBM	
NGC 4450		H56-2	Galaxy SA(s)ab	B,L,R,GVMBM*,R,B*SP
Mar 16 2010	31" 17mmT4		VB,VL,ELONG,SMALL BNUC,SMBM,HISB MIDDLE,GRANULAR OVAL ARMS,R=E	
Feb 12 1983	12.5" 16mm		MB,ML,FNUC,R,LARGE NUC,HALO DET	
Jun 10 1980	6" 24mm			
NGC 4459		H161-1	Galaxy SA(r)0+	PB,PL,IR,BM,R,*8SF2'
May 09 2010	31" 17mmT4		EB,VL,R,LBNUC,GRANULAR HALO,SUDDENLY MBM,HISB,R=E	
Feb 12 1983	12.5" 16mm		MB,PS,BNUC,SMBM,STELL NUC,CLOSE TO B*	
Mar 27 1981	12.5" 24mm			
Jun 10 1980	6" 24mm			

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NGC 4473		H114-2	Galaxy E5	PB
Mar 16 2010 31"	17mmT4	VB,VL,OVAL,LARGE BNUC,HISB MIDDLE,GRANULAR HALO,GMBM,R=E		
Feb 12 1983 12.5"	16mm	MF,PS,DNUC,R,BM,PAIR/4477		
May 01 1981 12.5"	24mm	PB,PL,BNUC,FARM,PAIR/4461		
Mar 27 1981 12.5"	24mm			
Jun 10 1980 6"	24mm			
NGC 4477		H115-2	Galaxy SB(s)0:?	PB,CL
Mar 16 2010 31"	17mmT4	VB,VL,ELONG,LARGE BNUC,GRAD MBM,HISB MIDDLE,PAIR=4479,R=E		
Feb 12 1983 12.5"	16mm	MF,PS,BNUC,R,BM,CLOSE COMP 4479,PAIR/4473		
Mar 27 1981 12.5"	24mm			
Jun 10 1980 6"	24mm			
NGC 4479		H116-2	Galaxy SB(s)0^:?	PB,PL
Mar 16 2010 31"	17mmT4	MB,MS,OVAL,LARGE FNUC,PAIR=4477,R=F		
Feb 12 1983 12.5"	16mm	VDIF,VF,MS,ELONG,UB,NND,CLOSE COMP 4477		
NGC 4494		H83-1	Galaxy E1-2	VB,PL,R,VSBMN
Feb 12 1983 12.5"	16mm	VB,VL,BNUC,R,BM		
NGC 4501	M88		Galaxy SA(rs)b	B,VL,VME
Apr 11 2015 36"	17mmT4	EB,VL,EL,S SOFT BRT NUC,LG ELONG PATCH OF ARMS AND HALO,BROKEN PARTS,R=E		
May 09 2010 31"	17mmT4	VB,EL,OVAL,LBNUC,FILLS FOV,GRANULAR ARMS,PATCHY AREAS,SUDDENLY MBM,HISB MIDDLE,2F* EDGE,R=E		
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	SAME,2F*S ONE SIDE,ANOTHER F* OPPOSITE SIDE		
Feb 12 1983 12.5"	16mm	VB,VL,BNUC,BRT H2 REGION AND ARMS,DIF ARMS,SLIGHTLY ELONG		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4548	M91	H120-2	Galaxy SB(rs)b	B,L,LE,LBM
Apr 11 2015 36"	17mmT4	PB,PL,S SOFT GRAD BM,FT HALO,BRTER PATCH-BAR DET,R=G		
May 09 2010 31"	17mmT4	EB,EL,SBNUC,BRT BAR ACROSS NUC,SUDDENLY MBM,HISB MIDDLE,FT HALO ARMS,VF OUTER LOOP ONE SIDE,R=E		
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	SAME		
Feb 12 1983 12.5"	24mm	MB,PL,BNUC,R,LARGE NUC,DIF HALO		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4559		H92-1	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Feb 12 1983 12.5"	24mm	VB,VL,3F*S IN S EDGE,SLIGHTLY ELONG,HISB,NND		
NGC 4565		H24-5	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
Feb 05 2005 31"	17mmT4	EB,EEL,EDGE ON,LARGE BNUC,HISB,FILLS FOV,2 HALVES,GMBM,TAPPED ENDS,R=E		
Feb 05 2005 31"	31mmT5	EB,EL,EDGE ON,BNUC,BETTER THAN 17MM,JUST FITS IN FOV,DUST LANE,BEST TO DATE,R=E		
Feb 27 1982 12.5"	16mm	MB,PL,VERY EDGE ON,BNUC,DIM HALO,F*N OF NUC,DUST LANES,CENTRAL BULGE,!!!		
Mar 27 1981 12.5"	24mm			

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NGC 4571 Mar 22 2004 12.5" 12mmT4	H602-3 DIF,VF,VL,OVAL,PATCH,UB,NND,SOMEWHAT	Galaxy SA(r)d BM,R=F	VF,L,E,VGBM,*9NF NR
NGC 4613 Mar 20 2009 31" 17mmT4	MF,PS,OVAL,LARGE FNUC,OTHERS=NGC'S,R=F	Galaxy Sa	VF,S,LE,1ST OF 3
NGC 4614 Mar 20 2009 31" 17mmT4	MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,OTHERS=NGC'S,R=G	Galaxy SB0/a	F,S,R,*12NP,2ND OF 3
NGC 4615 Mar 20 2009 31" 17mmT4	MF,ML,ELONG,UB,NND,BAR DET,SPIRAL ARMS DET AT ENDS OF BAR,OTHERS=NGC'S,R=G	Galaxy Scd:	F,PL,E,3RD OF 3
NGC 4651 Mar 20 2009 31" 17mmT4	PF,ML,OVAL.SBNUC,MHISB,P AREAS IN ARMS DET,SMBM,SPIRAL ARMS,GRANDULAR ARMS,R=E	Galaxy SA(rs)c	CB,L,E90,GBM,R
NGC 4670 Mar 20 2009 31" 17mmT4	MB,MS,OVAL,BNUC,BRT BAR LIKE NUC,SOMEWHAT HISB MIDDLE,PAIR=4673,R=G	Galaxy SB(s)0/a pec:	PF,CS,R,BM,R,P OF 2
NGC 4673 Mar 20 2009 31" 17mmT4	MB,MS,OVAL,SM BNUC,SMBM,SOMEWHAT HISB MIDDLE,PAIR=4670,R=G	Galaxy E1-2	F,VS,R,SBM*10,F OF 2
NGC 4676A Mar 20 2009 31" 17mmT4	MB,ML,EDGE ON,SM BNUC,NUC AT END OF GAL,INTERACT=4676B,R=G	Galaxy S0 pec?	
NGC 4676B Mar 20 2009 31" 17mmT4	MB,MS,OVAL,LG FNUC,INTERACT=4676A,NUC NOT CENTERED,FT PATCH OFF ONE SIDE,R=G	Galaxy SB(s)0/a pec	
NGC 4689 Mar 27 1982 12.5" 12mm	EDIF,MF,PL,R,2F*S N,NND,UB,SOME STR SUSP	Galaxy SA(rs)bc	PB,VL,E,VGLBM,R
NGC 4721 May 14 2009 31" 17mmT4	MB,ML,ELONG,LARGE BNUC,MB,R=F	Galaxy S0?	VF,VS,(RESOLVABLE)
NGC 4725 Feb 12 1983 12.5" 24mm	VB,EL,BNUC,LARGE BRT NUC,OVAL,SLIGHTLY ELONG	Galaxy SAB(r)ab pec	VB,VL,E,VG,VSVMBMEBN
NGC 4728 May 14 2009 31" 17mmT4	MB,ML,PATCH,LARGE BNUC,SOMEWHAT HISB MIDDLE,R=F	Galaxy E1	EF,ES
NGC 4738 May 31 2014 36" 17mmT4	MB,ML,EDGE ON,NND,PA~0,* OFF NUC,TAPPERED ENDS,R=FG	Galaxy Scd?	VF,E30,VLBM
NGC 4745 May 17 2009 31" 17mmT4 May 14 2009 31" 17mmT4	MF,MS,OVAL,LARGE BNUC,AGC1656,R=F MF,ML,OVAL,LARGE BNUC,BM,R=F	Galaxy S0?	EF*6N
NGC 4747	H344-2	Galaxy SBcd? sp pec	F,PL,LE

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NGC 4747		H344-2	Galaxy SBcd? sp pec	F,PL,LE
Mar 20 2009 31"	17mmT4	MB,PL,ELONG,ALMOST UB,LG F CENTRAL REGION W/FAINTER EXTENSIONS BOTH ENDS,R=G		
NGC 4787			Galaxy S0/a	VF,VS,4789F
May 17 2009 31"	17mmT4	MF,MS,ELONG,OBAL,LARGE FNUC,AGC1656,R=F		
NGC 4788			Galaxy S?	VF,S
May 17 2009 31"	17mmT4	MF,MS,ELONG,SMALL BNUC,GRADUALLY BM,AGC1656,R=F		
NGC 4789		H345-2	Galaxy SA0:	F,R,*9ATT1'N
May 17 2009 31"	17mmT4	MB,ML,LARGE BNUC,* OFF SIDE,MOD HISB MIDDLE,AGC1656,R=G		
NGC 4789A			Galaxy IB(s)m	
May 17 2009 31"	17mmT4	VDIF,EF,ML,PATCH,UB,NND,AV TOOK A WHILE,AGC1656,R=P		
NGC 4793		H93-1	Galaxy SAB(rs)c	PB,PS,LE,*8NF1'
May 17 2009 31"	17mmT4	PF,PL,ELONG,SMALL BNUC,HISB,COMP=MAC,AGC1656,R=E		
NGC 4798		H382-2	Galaxy S0-:	PF,PS,GBM
May 17 2009 31"	17mmT4	MB,PL,R,LARGE FNUC,SOMEWHAT HISB MIDDLE,AGC1656,R=G		
NGC 4807			Galaxy SAB0- pec:	F,PS,R,BM
May 17 2009 31"	17mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,AGC1656,R=G		
NGC 4816		H383-2	Galaxy S0-:	VF,PL
May 18 2009 31"	17mmT4	MB,ML,OVAL,LARGE BNUC,MOD HISB MIDDLE,* OF SIDE,AGC 1656,R=G		
May 17 2009 31"	17mmT4	MB,ML,SMALL BNUC,F* OFF SIDE,SMBM,MOD HISB CENTRAL AREA,AGC1656,R=F		
NGC 4819		H346-2	Galaxy (R')SAB(r)a:	VF,PL,IF
May 19 2009 31"	17mmT4	PB,PL,R,LARGE BNUC,MOD HISB MIDDLE,BMBM,AGC 1656,R=G		
NGC 4821			Galaxy E4:	VF,VS,4819NP
May 19 2009 31"	17mmT4	PB,ML,R,LARGE BNUC,MOD HISB MIDDLE,AGC 1656,R=F		
NGC 4824			Galaxy SA0	VF,VS
May 18 2009 31"	17mmT4	MF,MS,R,LARGE FNUC,AGC 1656,R=F		
NGC 4826	M64		Galaxy (R)SA(rs)ab	VB,VL,VME120,BMSBN
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	VB,VL,OVAL,SMALL BNUC,SBM		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
NGC 4827		H384-2	Galaxy S0-	F,CL
May 19 2009 31"	17mmT4	MB,ML,R,LARGE BNUC,GMBM,SMALL BRT TIGHT CORE,AGC 1656,R=F		
NGC 4828			Galaxy S?	F,S,R
May 19 2009 31"	17mmT4	MB,MS,R,LARGE BNUC,GRADUALLY GET BM,AGC 1656,R=F		

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NGC 4839 May 19 2009 31"	17mmT4	H386-2 MB,ML,ELONG,OVAL,LARGE BNUC,MOD HISB MIDDLE,GRANULAR AREAS,AGC 1656,R=G	Galaxy E+	F,PL,R
NGC 4842A May 19 2009 31"	17mmT4	MF,MS,OVAL,BNUC,CLOSE COMP=4842B,AGC 1656,R=F	Galaxy E0	VF,VS,4839SP
NGC 4842B May 19 2009 31"	17mmT4	MF,PS,OVAL,VERY SMALL NUC,CLOSE COMP=4842A,AGC 1656,R=F	Galaxy E3:	
NGC 4864 May 14 2009 31"	17mmT4	MF,MS,ELONG,LARGE BNUC,AGC 1656,R=F	Galaxy E2	F,S,P OF 2
NGC 4865 May 14 2009 31"	17mmT4	MB,MS,SMALL BNUC,AGC 1656,R=F	Galaxy E6	VF,VS,*7,8F13S
NGC 4867 May 14 2009 31"	17mmT4	MF,PS,OVAL,LARGE BNUC,AGC 1656,R=F	Galaxy E3	VF,VS,STELLAR,F4864
NGC 4869 May 14 2009 31"	17mmT4	MF,MSR,F* JUST OFF SIDE,SMALL BNUC,AGC 1656,R=F	H388-2 Galaxy E3	CF,S,R,*7N
NGC 4871 May 14 2009 31"	17mmT4	MB,MS,OVAL,SMALL BNUC,BM,AGC 1656,R=F	Galaxy SA0	VF,VS,STELL N
NGC 4872 May 14 2009 31"	17mmT4	MB,MS,OVAL,SMALL BNUC,BM,AGC 1656,R=F	Galaxy SB0	PF,PS,R
NGC 4873 May 14 2009 31"	17mmT4	MB,MS,OVAL,SMALL BNUC,BM,AGC 1656,R=F	Galaxy SA0	VF,VS
NGC 4874 May 14 2009 31"	17mmT4	PB,PL,OVAL,MOD HISB MIDDLE,SMBM,LARGE BNUC,AGC 1656,R=G	H389-2 Galaxy E+0	F,4869\$72 P
NGC 4875 May 14 2009 31"	17mmT4	MF,MS,OVAL,SMALL BNUC,AGC 1656,R=F	Galaxy SA0	VF,VS,STELLAR
NGC 4876 May 14 2009 31"	17mmT4	MF,PS,OVAL,SMALL BNUC,AGC 1656,R=F	Galaxy E5	VF,VS,NO NUCL
NGC 4882 May 14 2009 31"	17mmT4	MF,MS,OVAL,LARGE BNUC,AGC 1656,R=F	Galaxy E0	VF,S,OTHERS NEAR
NGC 4884 May 14 2009 31"	17mmT4	VB,VL,OVAL,GMBM,LARGE BNUC,HISB,AGC 1656,R=G	H391-2 Galaxy E+4	CHIEF OF MULT NEB
NGC 4894 May 14 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=F	Galaxy SA0	PF,S,R

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NGC 4898		Galaxy E pec	VF,S,CLOSE TO 4894
May 14 2009 31"	17mmT4	MB,ML,ELONG,OVAL,LARGE BNUC,AGC 1656,R=F	
NGC 4926		Galaxy SA0-:	PB,S,R,GLBM
Apr 07 2008 31"	17mmT4	MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,PAIRS=4926A/MAC'S,R=G	
NGC 4926A		Galaxy S0 pec?	
Apr 07 2008 31"	17mmT4	PF,PS,PATCH,VERY SMALL FNUC,PAIRS=4926/MAC'S,R=P	
NGC 4944		H395-2 Galaxy S0/a? sp	F,S,R,BM,*9NF1'
Apr 07 2008 31"	17mmT4	MF,MS,ELONG,LARGE FNUC,SOMEWHAT HISB MIDDLE,PAIRS=PGC45162/MAC'S,R=F	
NGC 5012		H85-1 Galaxy SAB(rs)c	PF,CL,E17,BIN,*9F
Mar 22 2004 12.5"	12mmT4	MF,MS,ELONG,PATCH,UB,SHISB,R=F	
NGC 5024	M53	Globular	GCL,B,VC,IR,VVMBM,
Apr 11 2015 36"	17mmT4	VB,VL,RESOLVED TO CORE,GROUP OF B*S OFF ONE SIDE OF NUC,MOD HISB SECTIONS IN NUC,*S FALL OFF SHARPLY MOVING AWAY FROM NUC,~TYPE III,R=EE	
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984 10"	20mm	VB,VL,BNUC,R,OUTTER *S RESOLVED,LARGE BRT NUC	
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981	
NGC 5053		H7-6 Globular	CL,VF,PL,IR,VGBM,*15
Apr 11 2015 36"	17mmT4	MB,PL,DOZ OR SO B*S LOOSLY SCATTERED,LITTLE CLUSTERING IN NUC AREA DET,OC LIKE,~TYPE XII,R=G	
Mar 22 2004 12.5"	12mmT4	VDIF,EF,VL,OVAL,FAINT PATCHY AREAS DETECTED,MORE WITH AV,R=P	
Mar 27 1981 12.5"	24mm		
NGC 5056		H306-3 Galaxy Scd:	CF,CS,R,SP OF 2
Mar 22 2004 12.5"	12mmT4	VF,MS,PATCH,UB,NND,PAIR=5057,R=P	
NGC 5057		H307-3 Galaxy S0	CF,CS,R,NF OF 2
Mar 22 2004 12.5"	12mmT4	VF,MS,PATCH,UB,NND,PAIR=5056,R=P	
NGC 5065		H308-3 Galaxy Sd	VF,CS
Mar 22 2004 12.5"	12mmT4	VF,PS,PATCH,NND,R=P	
NGC 5089		H327-2 Galaxy S?	PF,PL,GBM
Jan 28 1982 12.5"	16mm	EEDIF,EF,ES,JUST VISIBLE	
Jan 28 1982 12.5"	24mm	MUCH EASIER TO IDENTIFY THAN IN 16MM	
PGC 37702		Galaxy S?	
Mar 17 2009 31"	17mmT4	VF,VS,ELONG TO EDGE ON,PATCH,UB,VERY FAINT ELONG JET STICKING OUT OF N4015,R=P	
PGC 37703		Galaxy S	
Mar 17 2009 31"	17mmT4	EF,ES,SUSP ONLY,R=P	
PGC 38163		Galaxy Sc	

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PGC 38163		Galaxy Sc
Mar 08 2010 31"	17mmT4	VF,PS,EDGE ON,UB,NND,AV TOOK A WHILE TO HOLD,PAIRS=NGC'S/MAC,R=P
PGC 38748		Galaxy Scd:
Apr 26 2014 36"	17mmT4	MF,MS,EDGE ON,UB,NND,PA~10,VF* OFF ONE SIDE CLOSE,THICKER IN MIDDLE,R=F
PGC 39014		Galaxy SB(s)d pec
Mar 17 2009 31"	17mmT4	PF,MS,OVAL,UB,NND,ATTACHED TO MAC,BOTH LOOK LIKE IRR TADPOLE,R=F
PGC 39281		Galaxy SBcd:
Apr 07 2008 31"	17mmT4	DIF,VF,MS,PATCH,UB,NND,R=P
PGC 39432		Galaxy Sd
May 30 2014 36"	17mmT4	PF,VL,EDGE ON,NND,PA~90,SOMEWHAT CENTRAL BULGE,'THIN SCRATCH ON LENSE',R=G
PGC 43462		Galaxy S
May 14 2009 31"	17mmT4	MF,MS,ELONG,UB,NND,R=F
PGC 43511		Galaxy S?
May 14 2009 31"	17mmT4	MF,MS,PATCH,NND,R=F
PGC 43529		Galaxy S
May 17 2009 31"	17mmT4	MF,MS,ELONG,PATCH,UB,NND,AGC1656,R=P
May 14 2009 31"	17mmT4	MF,MS,ELONG,PATCH,UB,NND,R=F
PGC 43583		Galaxy E/S0
May 14 2009 31"	17mmT4	MF,MS,OVAL,LARGE BNUC,AGC 1656,R=F
PGC 43618		Galaxy E?
May 17 2009 31"	17mmT4	MF,MS,OVAL,LARGE FNUC,KEEP * OUT OF FOV,AGC1656,R=F
PGC 43619		Galaxy E/S0
May 17 2009 31"	17mmT4	MF,MS,OVAL,LARGE FNUC,AGC1656,R=F
PGC 43631		Galaxy C
May 17 2009 31"	17mmT4	PF,MS,OVAL,PATCH,NND,AGC1656,R=F
PGC 43632		Galaxy Spiral
May 17 2009 31"	17mmT4	PF,MS,PATCH,UB,NND,AGC1656,R=P
PGC 43712		Galaxy S?
May 17 2009 31"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,AGC1656,R=F
PGC 43726		Galaxy S?
May 17 2009 31"	17mmT4	MB,ML,ELONG,UB,NND,MOD HISB,AGC1656,R=G
PGC 43840		Galaxy S

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PGC 43840		Galaxy S
May 17 2009 31"	17mmT4	MF,MS,ELONG,UB,NND,AGC1656,R=F
PGC 43847		Galaxy S
May 17 2009 31"	17mmT4	PF,PS,PATCH,UB,NND,AGC1656,R=P
PGC 43863		Galaxy Sb
May 31 2014 36"	17mmT4	MB,ML,EDGE ON,UB,NND,PA~90,SOMEWHAT BM,TAPPERED ENDS,R=FG
PGC 43882		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,AGC1656,R=P
PGC 43930		Galaxy SB?
May 17 2009 31"	17mmT4	MF,MS,OVAL,LARGE FNUC,AGC1656,R=F
PGC 43952		Galaxy E
May 17 2009 31"	17mmT4	MF,MS,ELONG,EDGE ON,UB,NND,AGC1656,R=F
PGC 43965		Galaxy
May 17 2009 31"	17mmT4	VF,PS,PATCH,NND,AGC1656,R=P
PGC 43995		Galaxy E
May 17 2009 31"	17mmT4	MF,MS,OVAL,SMALL FNUC,AGC1656,R=P
PGC 44031		Galaxy
May 17 2009 31"	17mmT4	MF,PS,R,SMALL FNUC,AGC1656,R=F
PGC 44043		Galaxy S0?
May 17 2009 31"	17mmT4	MF,MS,LARGE FNUC,KEEP B* OUT OF FOV,AGC1656,R=F
PGC 44044		Galaxy S
May 17 2009 31"	17mmT4	MF,MS,ELONG,EDGE ON,SMALL BNUC,SOMEWHAT HISB MIDDLE,AGC1656,R=F
PGC 44105		Galaxy
May 18 2009 31"	17mmT4	MF,MS,R,SMALL FNUC,AGC 1656,R=F
PGC 44109		Galaxy C
May 18 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=P
PGC 44137		Galaxy
May 18 2009 31"	17mmT4	MB,MS,OVAL,LARGE FNUC,AGC 1656,R=F
PGC 44151		Galaxy L
May 19 2009 31"	17mmT4	MF,MS,R,SMALL BNUC,AGC 1656,R=F
PGC 44159		Galaxy
May 18 2009 31"	17mmT4	MF,PS,PATCH,*NUC,VF* IN OR AROUND GAL,AGC 1656,R=P

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PGC 44193		Galaxy S?
May 19 2009 31"	17mmT4	MF,MS,ELONG,LARGE FNUC,AGC 1656,R=F
PGC 44195		Galaxy S
May 19 2009 31"	17mmT4	PF,PS,PATCH,FNUC,AGC 1656,R=F
PGC 44196		Galaxy E
May 19 2009 31"	17mmT4	MB,MS,SMALL FNUC,AGC 1656,R=F
PGC 44212		Galaxy S
May 19 2009 31"	17mmT4	PF,PS,PATCH,VERY SMALL FNUC,AGC 1656,R=F
PGC 44214		Galaxy
May 19 2009 31"	17mmT4	EF,PS,PATCH,AV,AGC 1656,R=P
PGC 44229		Galaxy
May 19 2009 31"	17mmT4	MB,MS,ELONG,LARGE BNUC,AGC 1656,R=F
PGC 44263		Galaxy SB?
May 19 2009 31"	17mmT4	MB,ML,ELONG,LARGE BNUC,A VERY NICE PGC,AGC 1656,R=F
PGC 44268		Galaxy S?
May 19 2009 31"	17mmT4	MB,MS,R,SMALL BNUC,AGC 1656,R=F
PGC 44304		Galaxy S0
May 19 2009 31"	17mmT4	MF,PS,R,SMALL BNUC,AGC 1656,R=F
PGC 44432		Galaxy SBcd?
Apr 07 2008 31"	17mmT4	VDIF,VF,PL,OVAL,PATCH,UB,NND,NO FIELD *S AROUND GAL,BARREN FOV,R=P
PGC 44522		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=P
PGC 44533		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=P
PGC 44546		Galaxy
May 14 2009 31"	17mmT4	VF,VS,PATCH,AV FIRST THEN HOLDS,AGC 1656,R=P
PGC 44575		Galaxy E
May 14 2009 31"	17mmT4	MF,MS,PATCH,UB,NND,AGC 1656,R=F
PGC 44581		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,AGC 1656,R=P
PGC 44585		Galaxy
May 14 2009 31"	17mmT4	MF,PS,R,SMALL FNUC,AGC 1656,R=F

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PGC 44597		Galaxy
May 14 2009 31"	17mmT4	PF,PS,CLOSE COMP=PGC44598,CAN SEPERATE,AGC 1656,R=F
PGC 44598		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,CLOSE COMP=PGC44597,CAN SEPERATE,AGC 1656,R=F
PGC 44602		Galaxy
May 14 2009 31"	17mmT4	VF,PS,OVAL,VERY CLOSE TO *,AGC 1656,R=P
PGC 44609		Galaxy
May 14 2009 31"	17mmT4	EF,VS,PATCH,AV FIRST,AV HOLDS A FEW TIMES,AGC 1656,R=P
PGC 44616		Galaxy
May 14 2009 31"	17mmT4	VF,PS,OVAL,VERY CLOSE TO *,AGC 1656,R=P
PGC 44636		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=P
PGC 44644		Galaxy
May 14 2009 31"	17mmT4	PF,PS,OVAL,PATCH,NND,AGC 1656,R=P
PGC 44649		Galaxy
May 14 2009 31"	17mmT4	MF,PS,OVAL,SMALL BNUC,AGC 1656,R=F
PGC 44651		Galaxy
May 14 2009 31"	17mmT4	PF,PS,OVAL,PATCH,NND,AGC 1656,R=P
PGC 44652		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,AGC 1656,R=F
PGC 44654		Galaxy
May 14 2009 31"	17mmT4	VF,VS,PATCH,INTERACTING,CANNOT SEPERATE,AGC 1656,R=P
PGC 44656		Galaxy
May 14 2009 31"	17mmT4	PF,MS,OVAL,AGC 1656,R=F
PGC 44662		Galaxy
May 14 2009 31"	17mmT4	VF,VS,PATCH,INTERACTING,CANNOT SEPERATE,AGC 1656,R=P
PGC 44675		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,AGC 1656,R=F
PGC 44708		Galaxy
May 14 2009 31"	17mmT4	EF,VS,PATCH,AV COMES AND GOES,TOUCHING NGC4884 NUC,AGC 1656,R=P
PGC 44741		Galaxy
May 14 2009 31"	17mmT4	VF,PS,PATCH,AGC 1656,R=P

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PGC 45162		Galaxy SB?
Apr 07 2008 31"	17mmT4	VF,VS,OVAL,VERY SMALL FNUC,PAIRS=4944/MAC'S,R=P
PGC 45463		Galaxy S
Mar 20 2009 31"	17mmT4	MF,MS,ELONG,SM FNUC,VF* OFF ONE TIP,GAL HAS A BEND IN IT,NUC REG OFF 1 SIDE,R=F
PGC 45509		Galaxy S?
Mar 20 2009 31"	17mmT4	MB,MS,PATCH,UB,NND,R=F
PGC 46036		Galaxy
Mar 17 2010 31"	17mmT4	PF,PS,PATCH,SMALL FNUC,PAIRS=MAC'S/PGC46054,R=F
Mar 20 2009 31"	17mmT4	PF,PS,OVAL,VSM FNUC,INTERACT=PGC46054,CANNOT SEPERATE,OTHERS,R=F
PGC 46054		Galaxy C
Mar 17 2010 31"	17mmT4	EF,ES,AV ONLY A FEW TIMES,PAIRS=MAC'S/PGC46036,SUSP,R=P
Mar 20 2009 31"	17mmT4	EF,VS,PATCH,VERY CLOSE INTERACT=PGC46036,CANNOT SEPERATE OR DET,SUSP,R=P
PGC 46225		Galaxy SB
Mar 20 2009 31"	17mmT4	VF,PS,OVAL,PATCH,UB,NND,FIELD * CLOSE BY,PAIR=PGC46234,R=P
PGC 46234		Galaxy C
Mar 20 2009 31"	17mmT4	VF,VS,PATCH,TOOK A WHILE TO FIND WITH AV,AV OFF AND ON,PAIR=PGTC46225,R=P