

Coma Berenices - Berenice's Hair

IC 755		Galaxy
Apr 19 2014 36"	17mmT4	MF,MS,EDGE ON,UB,NND,PA~140,SLT THICKER IN CNTR,R=F
IC 787		Galaxy S?
Mar 07 2021 36"	17mmT4	MF,PS,EL,FNUC,R=F
IC 803		Galaxy S
Mar 17 2009 31"	17mmT4	VF,VS,OVAL,PATCH,NND,CAN BARELY SEP WITH MAC1239+1635C,OTHERS,R=F
IC 834		Galaxy S
May 18 2009 31"	17mmT4	MB,MS,OVAL,BLNUC,AGC 1656,R=F
IC 835		Galaxy S?
May 18 2009 31"	17mmT4	MB,ML,PATCH,UB,NND,MHISB,AGC 1656,R=G
IC 3292		Galaxy L
Mar 08 2010 31"	17mmT4	PF,PS,OVAL,FLNUC,R=F
IC 3522		Galaxy IBm: sp
Mar 09 2021 36"	17mmT4	EF,VS,PATCH,NND,AV,SUSP,R=P
IC 3528		Galaxy SAB(r)b
Mar 09 2021 36"	17mmT4	MF,PS,OVAL,UB,NND,SHISB,PAIR=N4540,R=F
IC 3900		Galaxy SB0:
May 18 2009 31"	17mmT4	MB,MS,R,BLNUC,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,BSNUC,AGC 1656,R=F
IC 3973		Galaxy SB0
May 14 2009 31"	17mmT4	MB,PS,OVAL,BSNUC,AGC 1656,R=F
IC 3976		Galaxy E6
May 14 2009 31"	17mmT4	PF,PS,OVAL,BSNUC,AGC 1656,R=F
IC 3998		Galaxy SB0
May 14 2009 31"	17mmT4	MF,MS,OVAL,BLNUC,AGC 1656,R=F
IC 4011		Galaxy E
May 14 2009 31"	17mmT4	PF,PS,FSNUC,AGC 1656,R=F
IC 4045		Galaxy E4
Apr 02 2021 36"	17mmT4	MB,MS,OVAL,BSNUC,MHISB CNTR,MANY OTHERS PRESENT,R=FG

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IC	4051	H363-3	Galaxy E0
Apr 02 2021	36"	17mmT4	MB,MS,OVAL,BSNUC,MHISB CNTR,MANY OTHERS PRESENT,R=FG
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
MAC	1213+1607		Galaxy
Mar 17 2009	31"	17mmT4	VF,MS,OVAL,*NUC,B RGN OR VSNUC,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 BET IC803 AND MAC1239+1635C,R=P
MAC	1239+1635C		Galaxy
Mar 17 2009	31"	17mmT4	VF,VS,BSNUC,CAN BARELY SEP 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,V CLOSE TO B*,AGC1656,R=P

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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,EL,UB,NND,AGC1656,R=F
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,EL,FLNUC,A BMAC,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,EL,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,BSNUC,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

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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

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,FLNUC,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,VF* 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

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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,FSNUC,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,FLNUC,AGC 1656,R=F
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,FSNUC,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,FSNUC,AGC 1656,R=P
MAC 1256+2749		Galaxy
May 18 2009 31"	17mmT4	MF,MS,OVAL,FSNUC,AGC 1656,R=F
MAC 1256+2750		Galaxy
May 18 2009 31"	17mmT4	MF,MS,OVAL,FSNUC,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,BSNUC,AGC 1656,R=F
MAC 1256+2757		Galaxy

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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
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,FSNUC,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,VFSNUC,AGC 1656,R=P

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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,FSNUC,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	
MAC 1303+2810C		Galaxy	
Apr 07 2008 31"	17mmT4	EF,ES,*NUC,ALM *,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,VFSNUC,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 4014	H3-3	Galaxy S0/a	PB,PS,R,PSBM
Mar 25 2020 36"	17mmT4	MB,ML,EL-OVAL,BLNUC,R=FG	
NGC 4015		Galaxy Double System	F,VS,E,MBM
Mar 17 2009 31"	17mmT4	VB,VL,R,BLNUC,INTRACT=PGC37702,SBM,MHISB CNTR,R=G	
Dec 28 2008 31"	17mmT4	MB,MS,R,BLNUC,MHISB CNTR,BM,R=G	

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NGC 4016		Galaxy SBdm:	VF
Dec 28 2008 31"	17mmT4	MB,ML,OVAL,PATCH,UB,NND,MHISB,PAIR=4017,R=G	
NGC 4017		H369-2 Galaxy SABbc	F,L,E,GBFM
Feb 21 2020 36"	17mmT4	MB,PL,EL,PATCH,UB,NND,R=G,TIME 1:13AM	
Dec 28 2008 31"	17mmT4	PB,PL,EL-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 GLXY	
NGC 4037		H77-3 Galaxy SB(rs)b:	EF,PL,R,R
Mar 25 2020 36"	17mmT4	DIF,MF,VL,PATCH,NND,PATCHY,R=F	
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 4049		H390-3 Galaxy I?	EF,PS,R,GLBM
Mar 25 2020 36"	17mmT4	MF,PL,OVAL,UB,NND,SHISB,R=FG	
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 4057		Galaxy	PB
Mar 25 2020 36"	17mmT4	PF,MS,PATCH,UB,NND,PAIRS=N4090/N4086,R=PF	
NGC 4060		Galaxy S0	EF
Mar 08 2010 31"	17mmT4	PF,PSOVAL,FLNUC,PAIRS=NGC'S/MAC,R=F	
NGC 4061		H394-3 Galaxy E	VF,S,R,P OF DNEB
Mar 08 2010 31"	17mmT4	MB,ML,OVAL-R,BSNUC,GMBM,HISB CNTR,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,EL,F*S,F* FARTHER N,MHISB,EQ RGN SUSP	
NGC 4065		H395-3 Galaxy E	PF,R,F OF DNEB
Mar 08 2010 31"	17mmT4	MB,ML,OVAL-R,BSNUC,GMBM,HISB CNTR,PAIRS=NGC'S/PGC/MAC,R=G	
NGC 4066		H392-3 Galaxy E	PB
Mar 08 2010 31"	17mmT4	PB,ML,OVAL,BSNUC,GMBM,HISB CNTR,PAIRS=NGC'S/MAC,R=G	
NGC 4069		Galaxy	VF,VS
Mar 08 2010 31"	17mmT4	VF,VS,OVAL,VF* IN GLXY,PAIRS=NGC'S,MAC,R=P	
NGC 4070		H391-3 Galaxy E	F,VS
Mar 08 2010 31"	17mmT4	PB,ML,OVAL,BSNUC,GMBM CNTR,PAIRS=NGC'S/MAC,R=G	
NGC 4072		Galaxy S0	EF,SF4061,2,5

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NGC 4072		Galaxy S0	EF,SF4061,2,5
Mar 08 2010 31"	17mmT4	PF,MS,EL,VFSNUC,PAIRS=NGC'S/PGC/MAC,R=F	
NGC 4074		H393-3 Galaxy S0: pec	EF,VS
Mar 08 2010 31"	17mmT4	MB,MS,R,BSNUC,PAIRS=NGC'S/MAC,R=F	
NGC 4076		H396-3 Galaxy S?	VF,VS
Mar 08 2010 31"	17mmT4	MB,ML,OVAL,FLNUC,SMWHT BM,SLT HISB CNTR,PAIR=MAC,R=F	
NGC 4080		H355-3 Galaxy Im?	CF,PS,E,GBM
Feb 21 2020 36"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,R=F,TIME 1:17AM	
NGC 4086		Galaxy S0	F,PS,R
Mar 25 2020 36"	17mmT4	MB,ML,OVAL,BNUC,MHISB,MBM,PAIRS-N4090/N4057,R=G	
NGC 4089		Galaxy E?	VF,S,R,P OF 2
Mar 25 2020 36"	17mmT4	MB,ML,R,BLNUC,MHISB,PAIRS-5 NGC'S,BEST FOV TO DATE,R=G	
NGC 4090		Galaxy Sab	VF,VS,*15F1'
Mar 25 2020 36"	17mmT4	MB,ML,EL-OVAL,BLNUC,MHISB,PAIRS=N4086/N4057,R=G	
NGC 4091		Galaxy S	VF,S,R,F OF 2
Mar 25 2020 36"	17mmT4	MB,ML,EL,NND,SHISB,PAIRS-5 NGC'S,BEST FOV TO DATE,R=G	
NGC 4092		H382-3 Galaxy S?	F,PS,R,*11NP
Mar 25 2020 36"	17mmT4	MB,ML,OVAL,NND,MHISB,PAIRS-5 NGC'S,BEST FOV TO DATE,R=G	
NGC 4093		Galaxy E?	EF,VS
Mar 25 2020 36"	17mmT4	MF,ML,R,FLNUC,SHISB,PAIRS-5 NGC'S,BEST FOV TO DATE,R=FG	
NGC 4095		H383-3 Galaxy E?	VF,VS
Mar 25 2020 36"	17mmT4	MB,ML,EL-OVAL,BLNUC,SHISB,BM,MHISB MID,PAIRS-5 NGC'S,BEST FOV TO DATE,R=G	
NGC 4098		H384-3 Galaxy S?	EF,ES,R,BM
Apr 02 2021 36"	17mmT4	MB,MS,OVAL,BSNUC,MHISB CNTR,MANY OTHERS PRESENT,R=FG	
Mar 25 2020 36"	17mmT4	MB,ML,OVAL,BLNUC,HISB,GMBM,MHISB HALO,PAIRS-5 NGC'S,BEST FOV TO DATE,R=G	
NGC 4101		H326-3 Galaxy S0/a	EF,VS,R,VGBM
Mar 25 2020 36"	17mmT4	MB,MS,OVAL,BNUC,VMBM,HISB CNTR,R=G	
NGC 4104		H370-2 Galaxy S0	PB,PS,LE,BM
Feb 21 2020 36"	17mmT4	MB,ML,OVAL,FLNUC,PAIR=PGC38387,R=F,TIME 1:21AM	
NGC 4126		H68-3 Galaxy S0	VF,S,R,PSLBM,BET2VS*
Mar 25 2020 36"	17mmT4	MB,MS,OVAL,BLNUC,GMBM,HISB CNTR,R=G	
NGC 4131		H356-3 Galaxy S	CF,S,R,1ST OF 3

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NGC 4131 Feb 21 2020 36" 17mmT4	H356-3 MB,MS,BSNUC,PAIRS=N4132/N4134,R=F,TIME 1:28AM	Galaxy S	CF,S,R,1ST OF 3
NGC 4132 Feb 21 2020 36" 17mmT4	H357-3 MB,MS,OVAL,UB,NND,PAIRS=N4131/N4134,R=F,TIME 1:28AM	Galaxy S	CF,S,IR,2ND OF 3
NGC 4134 Feb 21 2020 36" 17mmT4	H371-2 MF,ML,OVAL,UB,NND,PAIRS=N4132/4131,R=F,TIME 1:28AM	Galaxy Sb	PF,PL,LE,3RD OF 3
NGC 4136 Feb 27 1982 12.5" 16mm Jan 26 1982 12.5" 16mm	H321-2 DIF,MF,PL,PATCHY,FACE ON,ARMS SUSP,UB,OVAL MB,ML,FNUC,CLOSE TO B*,*NUC,HISB,OVAL	Galaxy SAB(r)c	F,VL,VGMBM
NGC 4146 Mar 25 2020 36" 17mmT4	H327-3 VB,ML,OVAL-R,VBLNUC,HISB,GRAINY HALO,R=G	Galaxy (R)SAB(s)ab:	VF,PS
NGC 4147 Mar 08 2010 31" 17mmT4 Feb 12 1983 12.5" 12mm Jun 10 1980 6" 24mm	H19-1 PB,ML,CLASS -VI,RSLV TO CORE,BSNUC,MHISB CNTR,F HALO OF *S RSLV,R=G MB,PL,RSLV TO CORE,OUTER *S CLOSELY GRP,BM VF,LOOKS LIKE FT GLXY	Globular VI	GCL,VB,PL,R,GBM,RRR
NGC 4150 Feb 27 1982 12.5" 16mm	H73-1 MF,MS,BNUC,GMBM,R	Galaxy SA(r)0[^]?	B,S,R,PGMBM
NGC 4152 Feb 27 1982 12.5" 16mm	H83-2 VDIF,VF,VS,PATCHY,OVAL,SBM	Galaxy SAB(rs)c	PB,PL,R,PGMBM,R
NGC 4155 Feb 27 1982 12.5" 16mm	Galaxy E EDIF,EF,ES,S PATCH,*NUC SUSP	Galaxy E	EF,VS
NGC 4158 Feb 27 1982 12.5" 16mm	H405-2 MF,PS,BNUC,HISB,GMBM,*W 1 GLXY DIA	Galaxy SA(r)b:	F,PS,LE,BM,PB*SF
NGC 4162 Feb 27 1982 12.5" 16mm	H353-2 DIF,MF,PS,B*S,F*N,MHISB,NNS,R	Galaxy (R)SA(rs)bc	B,L,IE,BM
NGC 4166 Feb 27 1982 12.5" 16mm	Galaxy SB0 MF,PS,FNUC,R,F*N,SBM	Galaxy SB0	VF,S
NGC 4169 Feb 21 2020 36" 17mmT4 May 30 2014 36" 17mmT4 Mar 17 2009 31" 17mmT4 Feb 27 1982 12.5" 16mm	H358-3 MB,MS,BLNUC,CL OF 4,R=FG,TIME 1:35AM PB,ML,OVAL,BLNUC,GMBM,GRAN CORE,PAIRS=4171,4175,4174,R=GE VB,VL,OVAL,BLNUC,HISB CNTR,OTHERS PRESENT,E GRP,R=E PF,VS,BNUC,F*S 1 GLXY DIA,SBM,R,CLOSE PAIR/4170/4175 IN TRI SHAPE	Galaxy S0	F,S,1ST OF 4
NGC 4173 Feb 21 2020 36" 17mmT4	H372-2 MF,PL,EDGE ON,UB,NND,CL OF 4,R=FG,TIME 1:35AM	Galaxy SBd:	F,S,2ND OF 4

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NGC 4173		H372-2	Galaxy SBd:	F,S,2ND OF 4
May 30 2014 36"	17mmT4	MF,VL,EDGE ON,UB,NND,PA~130,LONG THIN WISP,BKN,CHUNKY,PAIRS=4175,4174,4169,R=G		
Mar 17 2009 31"	17mmT4	MF,VL,EDGE ON,UB,NND,SLT TAPERED AT ENDS,OTHERS,E GRP,R=G		
Feb 27 1982 12.5"	16mm	EDIF,VF,VS,EL,PAIR/4175/4169,NND,UB,COMP FORM TRI		
NGC 4174		H359-3	Galaxy S?	F,S,3RD OF 4
Feb 21 2020 36"	17mmT4	MB,PS,BSNUC,CL OF 4,R=FG,TIME 1:35AM		
May 30 2014 36"	17mmT4	PB,PL,OVAL,BSNUC,PAIRS=4171,4175,4169,R=G		
Mar 17 2009 31"	17mmT4	PB,PL,EL,BNUC,TIGHT NUC RGN,OTHERS PRESENT,E GRP,R=G		
NGC 4175		H360-3	Galaxy S	F,ES,4TH OF 4
Feb 21 2020 36"	17mmT4	MB,ML,EDGE ON,BSNUC,CL OF 4,R=G,TIME 1:35AM		
May 30 2014 36"	17mmT4	MB,PL,EDGE ON,FSNUC,SMWHT SLT CNTR BULGE,PAIRS=4171,4174,4169,R=G		
Mar 17 2009 31"	17mmT4	MB,ML,EDGE ON,FLNUC,CNTR BULGE,OTHERS,E GRP,R=G		
Feb 27 1982 12.5"	16mm	VF,VS,EL,FNUC,F*S,UB,SBM,COMP FORM TRI		
NGC 4185		H373-2	Galaxy Sbc	CF,L,R,GBM
Feb 21 2020 36"	17mmT4	MB,PL,OVAL,PATCH,UB,NND,F* OFF EDGE,R=F,TIME 1:41AM		
Feb 21 2020 36"	17mmT4	PF,PL,OBAL,PATCH,UB,NND,R=F,TIME 1:38AM		
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,*NUC,R=FG		
Mar 08 2010 31"	17mmT4	MF,MS,OVAL,VFLNUC,R=F		
NGC 4189		H106-2	Galaxy SAB(rs)cd?	F,L,LE,VGLBM,R
Feb 22 2020 36"	17mmT4	MB,VL,OVAL,FSNUC,SPR STR SUSP,PATCHY,R=GE		
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,EL,BSNUC,MHISB,WELL PLACED,DUST AREAS SUSP,BKN ARMS,R=E		
Mar 08 2010 31"	17mmT4	VB,VL,EL EDGE ON,BSNUC,EDGE TO EDGE IN FOV,S B TIGHT CORE,SUDLY 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,CNTR BULGE,TAPERED ENDS,BH2 RGN IN EQ		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4196		H374-2	Galaxy S0?	PB,S,R,VSMBM*
Feb 21 2020 36"	17mmT4	MF,PS,OVAL,BSNUC,R=F,TIME 1:42AM		
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 4204		H397-3	Galaxy SB(s)dm	VF,CL,IR,VGBM

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NGC 4204		H397-3	Galaxy SB(s)dm	VF,CL,IR,VGBM
Mar 05 2021 36"	17mmT4	MF,ML,EDGE ON,UB,NND,VF* OFF EDGE,R=FG		
NGC 4211			Galaxy S0/a pec	VF,ES,MBM
Apr 07 2008 31"	17mmT4	MF,MS,OVAL,FLNUC,CLOSE COMP=4211A,R=F		
NGC 4211A			Galaxy S0/a pec	
Apr 07 2008 31"	17mmT4	PF,PS,EL,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,*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,TAPERED 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,FLNUC,SHISB,LOC IN BARRON FOV,R=G		
NGC 4239			Galaxy E	F,PL,R
Feb 27 1982 12.5"	16mm	DIF,MF,PS,FNUC,BET 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,SNUC		
NGC 4251		H89-1	Galaxy SB0? sp	VB,S,E,VSVMBMN,*F90S
Feb 21 2020 36"	17mmT4	PB,ML,EL,BLNUC,GRAN HALO,GMBM,HISB NUC,R=G,TIME 1:50AM		
Feb 27 1982 12.5"	16mm	EL,BNUC,GMBM		
NGC 4253		H702-3	Galaxy (R')SB(s)a:	VF,VS,R
Mar 07 2021 36"	17mmT4	PB,MS,OVAL,BSNUC,SBM,HISB CNTR,R=FG		
NGC 4254	M99		Galaxy SA(s)c	B,L,R,GBM,R,3BRSPIRA
Apr 11 2015 36"	17mmT4	VB,VL,R,HALO W/SPR ARMS,BAR LIKE NUC,NUC EL IN SHAPE,2 ARMS EASILY DET,R=E		
Mar 08 2010 31"	17mmT4	PB,PL,BSNUC,FACE ON,GRADUALLY BM,SPR ARMS,SPR STR,PATCHY AREAS IN ARMS,PAIR=MAC,R=E		
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	MB,ML,EL,PATCHY,SBM,MHISB		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4262		H110-2	Galaxy SB(s)0-?	B,S,R,R
Mar 07 2021 36"	17mmT4	VB,MS,OVAL-R,VBSNUC,HISB,GRAN HALO,DBL NUC,HISB CNTR,L B CNTR RGN,R=G		
NGC 4272		H299-3	Galaxy E	CF,S,IR,GMBM

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NGC 4272		H299-3	Galaxy E	CF,S,IR,GMBM
Mar 07 2021 36"	17mmT4	MB,MS,R,BSNUC,MHISB,HISB CNTR,GRAN,R=G		
NGC 4274		H75-1	Galaxy (R)SB(r)ab	VB,VL,E90,MBMN
Feb 12 1983 12.5"	24mm	MB,PL,EL,BNUC,TAPERED ENDS,PAIR/4278/4283		
Feb 27 1982 12.5"	16mm	MB,VL,EL,BNUC,F HALO,SNUC,DIF HALO SUR NUC		
NGC 4275		H376-2	Galaxy S?	F,S,VLE,GBM,*15NR
Feb 21 2020 36"	17mmT4	MB,MS,OVAL,UB,NND,MHISB,R=G,TIME 1:53AM		
NGC 4278		H90-1	Galaxy E1-2	VB,PL,R,MBM,R,1STOF3
Mar 07 2021 36"	17mmT4	VB,PL,R,BLNUC,HISB,V GRAN,GLOB CL LIKE,PAIRS=N4283/N4286,R=E		
Feb 21 2020 36"	17mmT4	VB,VL,OVAL,BLNUC,HISB,PAIR=N4283,R=G,TIME 1:58AM		
Feb 12 1983 12.5"	16mm	MB,ML,BNUC,R,VMBM,COMP TO E = 4283		
NGC 4283		H323-2	Galaxy E0	B,S,R,BM,2ND OF 3
Mar 07 2021 36"	17mmT4	PB,ML,R,BLNUC,MHISB,GRAN,S VERSION OF N4278,PAIRS=N4287/N4286,R=G		
Feb 21 2020 36"	17mmT4	PB,PL,OVAL,BNUC,HISB,PAIR=N4278,TIME 1:58AM		
Feb 12 1983 12.5"	16mm	VDIF,VF,VS,R,NND,UB,COMP TO W = 4278		
NGC 4286		H300-3	Galaxy SA(r)0/a:	VF,3RD OF 3
Mar 07 2021 36"	17mmT4	PF,ML,PATCH,UB,NND,2F*S OUTER EDGE,PAIRS=N4283/N4278,R=F		
NGC 4293		H5-5	Galaxy (R)SB(s)0/a	F,VL,E,LBM,R
Mar 08 2010 31"	17mmT4	MB,PL,ELOIG,EDGE ON,FLNUC,SOME GRAN AREAS DET,R=G		
Feb 12 1983 12.5"	16mm	DIF,PF,ML,F*E TIP,NND,KNTS SUSP,UB,SVRL *S OFF ONE SIDE		
Jun 10 1980 6"	24mm			
NGC 4298		H111-2	Galaxy SA(rs)c	F,L,E,VGBM,P OF 2
Apr 26 2003 12.5"	9mmT6	VB,VL,R,UB,NND,MHISB,B* ON EDGE,PAIR=4302,R=E		
NGC 4302		H112-2	Galaxy Sc	L,VME177,F OF 2
Apr 26 2003 12.5"	9mmT6	PB,PL,EDGE ON,PATCH,UB,NND,SHISB,PAIR=4298,R=E		
NGC 4310		H378-2	Galaxy SB0	F,CL,LE,N OF 2
Feb 21 2020 36"	17mmT4	MF,PL,OVAL,PATCH,UB,NND,R=F,TIME 2:02AM		
Apr 26 2003 12.5"	9mmT6	MB,ML,OVAL,PATCH,UB,SHISB,R=G		
NGC 4312		H628-2	Galaxy SA(rs)ab: sp	PB,CL,E,GBM
Apr 26 2003 12.5"	9mmT6	MB,PL,EDGE ON,UB,SHISB,CNTR PART OF GLXY HISB,TIPS FTR,R=G		
NGC 4314		H76-1	Galaxy SB(rs)a	CB,L,E150,SBM,*NP
Feb 12 1983 12.5"	24mm	PB,ML,EDGE ON,BNUC,F*N TIP,BM,TAPERED		
NGC 4321	M100		Galaxy SAB(s)bc	PF,VL,R,VG,PSBMRN
Apr 11 2015 36"	17mmT4	EB,EL,R,MHISB NUC,NUC LOOKS LIKE B BLUEISH PL WELL DEF,FARMS EASILY DET,SVRL *S IN ARMS,F HALO SUR NUC,FACE ON,R=E		

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NGC 4321	M100	Galaxy SAB(s)bc	PF,VL,R,VG,PSBMRN
Mar 08 2010 31"	17mmT4	VG,VL,OVAL,SPR STR,DUST,PATCHY H2 RGN,FACE ON,VR NUC,UB NUC,MHISB NUC,NUC WELL DEF,MANY F*'S IN ARMS,PAIR=4323,R=E	
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984 10"	20mm	MB,VL,BNUC,FACE ON,R-OVAL,BSNUC,F*NW OUTER EDGE	
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980 6"	24mm		
NGC 4323		Galaxy SB(r)0⁺:	2VF,N OF M100
Mar 08 2010 31"	17mmT4	DIF,VF,PS,PATCH,UB,NND,PAIR=4321,R=P	
NGC 4328		H84-2 Galaxy SA0-:	F,S,R,R
Mar 08 2010 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 4336		H406-2 Galaxy SB0/a	VF,PL,IR,(BIN)
Apr 26 2003 12.5"	9mmT6	VB,PL,OVAL,UB,VHISB,R=E	
NGC 4338		Galaxy Sd	VF,LE,COM
May 30 2014 36"	17mmT4	VF,MS,EDGE ON,NND,PA-0 OR 180,R=P	
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 4344		H31-3 Galaxy SB0?	VF,PS,R,VGLBM,TRI2*
Mar 07 2021 36"	17mmT4	MB,ML,PATCH,UB,NND,MHISB,R=G	
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,EL,BSNUC,SHISB,HISB CNTR,GMBM,R=E	
NGC 4375		H379-2 Galaxy SB(r)ab pec:	F,S,R,BM,*NF90"
Feb 21 2020 36"	17mmT4	MV,MS,PATCH,UB,NND,R=F,TIME 2:04AM	
NGC 4377		H12-1 Galaxy SA0-	B,S,R,SMBM
Mar 07 2021 36"	17mmT4	PB,ML,OVAL-R,BLNUC,HISB,VF* OFF NUC IN GLXY,V GRAN,MHISB HALO,R=G	
NGC 4379		H87-2 Galaxy S0- pec:	PS,R,PSBMN
Mar 22 2004 12.5"	12mmT4	PF,MS,R,BLNUC,SHISB,HISB CNTR,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 CNTR,MSNUC,F OBLONG HALO SUR NUC,* OFF NUC,R=G	
Mar 08 2010 31"	17mmT4	VB,VL,OVAL,BSNUC,GMBM,HISB CNTR,GRAN HALO,PAIR=4394,R=G	
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984 10"	20mm	SAME	

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NGC 4382	M85	Galaxy SA(s)0+ pec	VB,PL,R,BM,*NP
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 4393		H361-3 Galaxy SABd	VF,VL,IF,B*P
Feb 21 2020 36"	17mmT4	VF,PL,PATCH,UB,NND,R=P,TIME 2:06AM	
NGC 4394		H55-2 Galaxy (R)SB(r)b	PB,LE,BM
Mar 08 2010 31"	17mmT4	MB,MS,EL,BLNUC,MHISB CNTR,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 4405		H88-2 Galaxy SA(rs)0/a:	PF,S,R,VSBM,R
Mar 07 2021 36"	17mmT4	MB,ML,OVAL,UB,NND,MHISB,R=G	
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,SLT ELNO **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,TAPERED	
Mar 27 1981 12.5"	24mm		
NGC 4421		H89-2 Galaxy SB(s)0/a	PB,PL,PGBM,B*NP
Mar 07 2021 36"	17mmT4	PB,ML,EL,BLNUC,GRAN SHISB HALO,VMBM,HISB CNTR,R=G	
NGC 4448		H91-1 Galaxy SB(r)ab	B,L,E90,SBM
Feb 21 2020 36"	17mmT4	VB,VL,EL-OVAL,LNUC,MHISB,R=G,TIME 2:10AM	
Feb 12 1983 12.5"	16mm	MF,MS,FNUC,SLT ELMHISB,SBM	
NGC 4450		H56-2 Galaxy SA(s)ab	B,L,R,GVMBM*,R,B*SP
Mar 16 2010 31"	17mmT4	VB,VL,EL,BSNUC,SBM,HISB CNTR,GRAN OVAL ARMS,R=E	
Feb 12 1983 12.5"	16mm	MB,ML,FNUC,R,LNUC,HALO DET	
Jun 10 1980 6"	24mm		
NGC 4455		H355-2 Galaxy SB(s)d? sp	F,L,E,GBM,2B*NF
Mar 07 2021 36"	17mmT4	MF,VL,EL-EDGE ON,UB,NND,SLT CNTR BULGE,F* IN TIP,R=GE	
NGC 4459		H161-1 Galaxy SA(r)0+	PB,PL,IR,BM,R,*8SF2'
Mar 07 2021 36"	17mmT4	VB,VL,OVAL-R,BVLNUC,HISB,VMBM,GRAN,R=GE	
May 09 2010 31"	17mmT4	EB,VL,R,BLNUC,GRAN HALO,SUDLY MBM,HISB,R=E	
Feb 12 1983 12.5"	16mm	MB,PS,BNUC,SBM,*NUC,CLOSE TO B*	
Mar 27 1981 12.5"	24mm		
Jun 10 1980 6"	24mm		
NGC 4468		H630-2 Galaxy SA0-?	F,CL
Mar 07 2021 36"	17mmT4	MF,MS,OVAL,FLNUC,PAIR=N4474,R=F	

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NGC 4473		H114-2	Galaxy E5	PB
Mar 16 2010 31"	17mmT4	VB,VL,OVAL,BLNUC,HISB CNTR,GRAN 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,FARMS,PAIR/4461		
Mar 27 1981 12.5"	24mm			
Jun 10 1980 6"	24mm			
NGC 4474		H117-2	Galaxy S0 pec:	PF,R,R
Mar 07 2021 36"	17mmT4	PB,ML,EL-OVAL,BLNUC,MHISB,TAPERED ENDS,SHISB,NUC RGN EL,PAIR=N4468,R=G		
NGC 4475		H362-3	Galaxy SAbc	EF,PL,R
Feb 21 2020 36"	17mmT4	VF,PL,OVAL,PATCH,NND,R=P,TIME 2:12AM		
NGC 4477		H115-2	Galaxy SB(s)0:?	PB,CL
Mar 16 2010 31"	17mmT4	VB,VL,EL,BLNUC,GRAD MBM,HISB CNTR,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,FLNUC,PAIR=4477,R=F		
Feb 12 1983 12.5"	16mm	VDIF,VF,MS,EL,UB,NND,CLOSE COMP 4477		
NGC 4489		H91-2	Galaxy E	PF,CS,R,GBM
Mar 07 2021 36"	17mmT4	MB,MS,OVAL-R,BNUC,MHISB,HALO SHISB,F* OFF NUC RGN,R=G		
NGC 4494		H83-1	Galaxy E1-2	VB,PL,R,VSMBMN
Mar 17 2018 36"	17mmT4	VB,VL,OVAL,S BNUC,HISB,F* OUTER EDGE,GRAN HISB OVAL ARMS SUR NUC,MBM,R=E		
Feb 12 1983 12.5"	16mm	VB,VL,BNUC,R,BM		
NGC 4495		H301-3	Galaxy Sab	PF,CS,R,PSLBM
Mar 07 2021 36"	17mmT4	MB,MS,EL-EDGE ON,UB,NND,SHISB,R=F		
NGC 4498		H69-3	Galaxy SAB(s)d	VF,PL,E,(BIN)
Mar 07 2021 36"	17mmT4	MF,PL,EL-EDGE ON,NND,SHISB,SLT BTR EQ PLANE,TAPERED ENDS,R=FG		
NGC 4501	M88		Galaxy SA(rs)b	B,VL,VME
Mar 17 2018 36"	17mmT4	VB,EL-OVAL,BNUC,HISB,GMBM,SOFT NUC WITH BCORE,GRAN ARMS,2F*S OUTER ARM,R=E		
Apr 11 2015 36"	17mmT4	EB,VL,EL,SOFT BSNUC,L ,EL PATCH OF ARMS AND HALO,BKN PARTS,R=E		
May 09 2010 31"	17mmT4	VB,EL-OVAL,BLNUC,FILLS FOV,GRAN ARMS,PATCHY AREAS,SUDLY MBM,HISB CNTR,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,BH2 RGN AND ARMS,DIF ARMS,SLT ,EL		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4502		H92-2	Galaxy Scd:	VF,S

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NGC 4502		H92-2	Galaxy Scd:	VF,S
Mar 07 2021 36"	17mmT4	MF,MS,EL-OVAL,UB,NND,R=F		
NGC 4506		H631-2	Galaxy Sa pec?	CF,PME90,GBM,*9P8S
Mar 09 2021 36"	17mmT4	MB,ML,OVAL,UB,NND,MHISB,R=FG		
NGC 4514		H302-3	Galaxy Sbc	EF,VS,R,BM
Mar 09 2021 36"	17mmT4	MF,MS,PATCH,UB,NND,SHISB,R=F		
NGC 4515		H93-2	Galaxy S0-:	F,VS,BM*
Mar 09 2021 36"	17mmT4	MB,ML,R,BLNUC,HISB,GMBM,GRAN,R=G		
NGC 4516		H78-3	Galaxy SB(rs)ab?	F,PS,R,R
Mar 09 2021 36"	17mmT4	MB,PL,EL-OVAL,FLNUC,SHISB,MHISB CNTR,R=FG		
NGC 4525		H325-2	Galaxy Scd:	F,PL,IR,BM
Mar 09 2021 36"	17mmT4	MB,PL,EL-OVAL,UB,NND,SHISB,R=FG		
NGC 4529		H26-3	Galaxy D	EF,L
Mar 09 2021 36"	17mmT4	This is not H26-3 (H26-3=UGC7697=PGC41639) EF,VS,PATCH,UB,AV,2 OBJ ON TOP OF EACH OTHER,WORST NGC TO DATE,INTRACT=PGC41463,R=P		
NGC 4540		H94-2	Galaxy SAB(rs)cd	F,PS,BM,RESOLVABLE
Mar 09 2021 36"	17mmT4	MB,ML,OVAL,NND,MHISB,* IN GLXY EDGE,GRAN,KIND OF IRR IN SHAPE,PAIR=IC3528,R=FG		
NGC 4548	M91	H120-2	Galaxy SB(rs)b	B,L,LE,LBM
Mar 17 2018 36"	17mmT4	VB,EL,EL,BNUC,MHISB,L SOF NUC,BGM,F HALO SUR NUC,ARMS NOT DET,R=GE		
Apr 11 2015 36"	17mmT4	PB,PL,S SOF GRAD BM,F HALO,BTR PATCH-BAR DET,R=G		
May 09 2010 31"	17mmT4	EB,EL,BSNUC,B BAR ACROSS NUC,SUDLY MBM,HISB CNTR,F 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,LNUC,DIF HALO		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			
NGC 4555		H343-2	Galaxy E	B,PS,IR,VSMBM*12
Mar 09 2021 36"	17mmT4	MB,MS,BLNUC,MHISB,CLASSIC ELLIPTICAL,GLOB CL LIKE,HISB CNTR,GRAN HALO,R=FG		
NGC 4556		H380-2	Galaxy E+:	F,PL
Feb 21 2020 36"	17mmT4	MB,PS,OVAL,FLNUC,R=F,TIME 2:16AM		
NGC 4559		H92-1	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Feb 21 2020 36"	17mmT4	VB,VL,EL-OVAL,?NUC,PATCHY,BKN PARTS,GRAN,R=GE,TIME 2:19AM		
Mar 17 2018 36"	17mmT4	VB,VL,OVAL,PATCH,NND,BKN PATCHES,MHISB IN ARMS,3*S TRIANGLE OUTER EDGE,R=E		
Feb 12 1983 12.5"	24mm	VB,VL,3F*S IN S EDGE,SLT EL,HISB,NND		
NGC 4561		H407-2	Galaxy SB(rs)dm	PB,PL,VLE,LBM,R

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NGC 4561		H407-2	Galaxy SB(rs)dm	PB,PL,VLE,LBM,R
Mar 09 2021 36"	17mmT4	MB,ML,OVAL,UB,NND,MHISB,*	JUST OF CNTR,GRAN FT BAR?,SPR STR SUSP,R=G	
NGC 4565		H24-5	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
Mar 17 2018 36"	17mmT4	EB,EEL,EDGE ON,BNUC,HISB,ABSOLUTELY AMAZING,DUST LANE THROUGH NUC RGN AND BEYOND,S BNUC ONE SIDE OF DUST, EDGE TO EDGE,R=EE		
Feb 05 2005 31"	17mmT4	EB,EEL,EDGE ON,BLNUC,HISB,FILLS FOV,2 HALVES,GMBM,TAPERED ENDS,R=E		
Feb 05 2005 31"	31mmT5	EB,EL,EDGE ON,BNUC,BTR THAN 17MM,JUST FITS IN FOV,DUST LANE,BEST TO DATE,R=E		
Feb 27 1982 12.5"	16mm	MB,PL,V EDGE ON,BNUC,DIM HALO,F*N OF NUC,DUST LANES,CNTR BULGE,!!!		
Mar 27 1981 12.5"	24mm			
NGC 4571		H602-3	Galaxy SA(r)d	VF,L,E,VGBM,*9NF NR
Mar 22 2004 12.5"	12mmT4	DIF,VF,VL,OVAL,PATCH,UB,NND,SMWHT BM,R=F		
NGC 4595		H632-2	Galaxy SAB(rs)b?	PF,PL,R,GBM
Mar 09 2021 36"	17mmT4	MB,ML,EL-OVAL,UB,NND,MHISB,GRAN HALO,R=FG		
NGC 4613			Galaxy Sa	VF,S,LE,1ST OF 3
Mar 17 2018 36"	17mmT4	MF,PS,PATCH,L FT NUC,PAIRS=4615/4614,R=F		
Mar 20 2009 31"	17mmT4	MF,PS,OVAL,FLNUC,OTHERS=NGC'S,R=F		
NGC 4614			Galaxy SB0/a	F,S,R,*12NP,2ND OF 3
Mar 17 2018 36"	17mmT4	MB,MS,R,L BNUC,HISB CNTR,PAIRS=4613/4615,R=R		
Mar 20 2009 31"	17mmT4	MB,MS,OVAL,BLNUC,MHISB CNTR,OTHERS=NGC'S,R=G		
NGC 4615			Galaxy Scd:	F,PL,E,3RD OF 3
Mar 17 2018 36"	17mmT4	MB,ML,EL,UB,NND,SHISB,RECTANGULAR IN SHAPE,PAIRS=4613/4614,R=FG		
Mar 20 2009 31"	17mmT4	MF,ML,EL,UB,NND,BAR DET,SPR ARMS DET AT ENDS OF BAR,OTHERS=NGC'S,R=G		
NGC 4633			Galaxy SAB(s)dm:	EEF,PS,F*CLOSEP,34 S
Mar 09 2021 36"	17mmT4	VF,MS,OVAL-PATCH,UB,NND,* OFF GLXY,PAIR=N4634,R=F		
NGC 4634		H603-3	Galaxy SBcd: sp	VF,L,ME135,VGBM
Mar 09 2021 36"	17mmT4	MB,PL,EDGE ON,UB,NND,SHISB,LONG RECT SHAPE,F* OFF CNTR RGN,PAIR=N4633,R=G		
NGC 4651		H12-2	Galaxy SA(rs)c	CB,L,E90,GBM,R
Mar 20 2009 31"	17mmT4	PF,ML,OVAL,BSNUC,MHISB,P AREAS IN ARMS DET,SBM,SPR ARMS,GRAN ARMS,R=E		
NGC 4659		H127-2	Galaxy S0/a	F,CS,R,BM,R
Mar 09 2021 36"	17mmT4	PB,ML,R,BLNUC,MHISB,HISB CNTR,GRAN HALO,R=G		
NGC 4670		H328-3	Galaxy SB(s)0/a pec:	PF,CS,R,BM,R,P OF 2
Mar 17 2018 36"	17mmT4	PB,MS,EL,L BNUC,HISB CNTR,PAIR=4673,R=G		
Mar 20 2009 31"	17mmT4	MB,MS,OVAL,BNUC,B BAR LIKE NUC,SHISB CNTR,PAIR=4673,R=G		
NGC 4673		H329-3	Galaxy E1-2	F,VS,R,SBM*10,F OF 2
Mar 17 2018 36"	17mmT4	PB,MS,OVAL,L BNUC,HISB CNTR,PAIR=4670,R=G		

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NGC 4673 Mar 20 2009 31"	17mmT4	H329-3 MB,MS,OVAL,BSNUC,SBM,SHISB CNTR,PAIR=4670,R=G	Galaxy E1-2	F,VS,R,SBM*10,F OF 2
NGC 4676A Mar 20 2009 31"	17mmT4	H326-2 MB,ML,EDGE ON,BSNUC,NUC AT END OF GLXY,INTRACT=4676B,R=G	Galaxy S0 pec?	VF,PME,(BIN)
NGC 4676B Mar 20 2009 31"	17mmT4	H326-2 MB,MS,OVAL,FLNUC,INTRACT=4676A,NUC NOT CNTR,F PATCH OFF ONE SIDE,R=G	Galaxy SB(s)0/a pec	VF,PME,(BIN)
NGC 4685 Mar 09 2021 36"	17mmT4	H398-3 PB,MS,EL-OVAL,BLNUC,SHISB,R=FG	Galaxy S0-:	F,S,R,SBM*,RR
NGC 4689 Mar 27 1982 12.5"	12mm	H128-2 EDIF,MF,PL,R,2F*S N,NND,UB,SOME STR SUSP	Galaxy SA(rs)bc	PB,VL,E,VGLBM,R
NGC 4692 Feb 21 2020 36" Mar 17 2018 36"	17mmT4 17mmT4	H381-2 MB,PS,R,BLNUC,R=F,TIME 2:21AM MB,MS,OVAL,S BNUC,HISB CNTR,R=G	Galaxy E+:	F,CS,R,BM
NGC 4710 Mar 09 2021 36"	17mmT4	H95-2 VB,VL,EDGE ON,VFLNUC,MHISB,BKN,GRAN,SLT CNTR BULGE,TAPERED ENDS,R=GE	Galaxy SA(r)0+? sp	CB,PL,VME28,SBMN
NGC 4712 Mar 17 2018 36"	17mmT4	H326-2 MF,PL,PATCH,UB,NND,IRR,GRAN,PATCHY,SHISB,R=G	Galaxy SA(s)bc	VF,PL
NGC 4721 May 14 2009 31"	17mmT4	H326-2 MB,ML,EL,BLNUC,MB,R=F	Galaxy S0?	VF,VS,(RESOLVABLE)
NGC 4725 Mar 17 2018 36" Feb 12 1983 12.5"	17mmT4 24mm	H84-1 MB,VL,R,L BNUC,MBM,HISB CNTR,7F*S IN GLXY,ARMS,KNOTS,PATCHES,BAR SUSP,R=GE VB,EL,BNUC,BLNUC,OVAL,SLT ,EL	Galaxy SAB(r)ab pec	VB,VL,E,VG,VSVMBMEBN
NGC 4728 May 14 2009 31"	17mmT4	H326-2 MB,ML,PATCH,BLNUC,SHISB CNTR,R=F	Galaxy E1	EF,ES
NGC 4738 May 31 2014 36"	17mmT4	H326-2 MB,ML,EDGE ON,NND,PA-0,* OFF NUC,TAPERED ENDS,R=FG	Galaxy Scd?	VF,E30,VLBM
NGC 4745 May 17 2009 31" May 14 2009 31"	17mmT4 17mmT4	H326-2 MF,MS,OVAL,BLNUC,AGC1656,R=F MF,ML,OVAL,BLNUC,BM,R=F	Galaxy S0?	EF*6N
NGC 4747 Mar 17 2018 36" Mar 20 2009 31"	17mmT4 17mmT4	H344-2 MB,ML,EL,UB,NND,R=G MB,PL,EL,ALM UB,L FT CNTR RGN W/FTR EXTENSIONS BOTH ENDS,R=G	Galaxy SBcd? sp pec	F,PL,LE
NGC 4758		H70-3	Galaxy Im:	VF,PL,(E)

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NGC 4758		H70-3	Galaxy Im:	VF,PL,(E)
Mar 09 2021 36"	17mmT4	MB,PL,EL-EDGE ON,UB,NND,SHISB,F* IN EDGE,R=FG		
NGC 4787			Galaxy S0/a	VF,VS,4789F
May 17 2009 31"	17mmT4	MF,MS,ELOBAL,FLNUC,AGC1656,R=F		
NGC 4788			Galaxy S?	VF,S
May 17 2009 31"	17mmT4	MF,MS,EL,BSNUC,GRADUALLY BM,AGC1656,R=F		
NGC 4789		H345-2	Galaxy SA0:	F,R,*9ATT1'N
May 17 2009 31"	17mmT4	MB,ML,BLNUC,* OFF SIDE,MHISB CNTR,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'
Feb 21 2020 36"	17mmT4	MB,ML,EL,VFSNUC,MHISB,R=G,TIME 2:27AM		
May 17 2009 31"	17mmT4	PF,PL,EL,BSNUC,HISB,COMP=MAC,AGC1656,R=E		
NGC 4798		H382-2	Galaxy S0-:	PF,PS,GBM
Feb 21 2020 36"	17mmT4	PF,PS,PATCH,UB,NND,R=F,TIME 2:30AM		
May 17 2009 31"	17mmT4	MB,PL,R,FLNUC,SHISB CNTR,AGC1656,R=G		
NGC 4807			Galaxy SAB0- pec:	F,PS,R,BM
May 17 2009 31"	17mmT4	MB,MS,R,BLNUC,MHISB CNTR,AGC1656,R=G		
NGC 4816		H383-2	Galaxy S0-:	VF,PL
Feb 21 2020 36"	17mmT4	PF,VS,OVAL,VFNUC,R=F,TIME 2:31AM		
May 18 2009 31"	17mmT4	MB,ML,OVAL,BLNUC,MHISB CNTR,* OF SIDE,AGC 1656,R=G		
May 17 2009 31"	17mmT4	MB,ML,BSNUC,F* OFF SIDE,SBM,MHISB CNTR AREA,AGC1656,R=F		
NGC 4819		H346-2	Galaxy (R')SAB(r)a:	VF,PL,IF
May 19 2009 31"	17mmT4	PB,PL,R,BLNUC,MHISB CNTR,BMBM,AGC 1656,R=G		
NGC 4821			Galaxy E4:	VF,VS,4819NP
May 19 2009 31"	17mmT4	PB,ML,R,BLNUC,MHISB CNTR,AGC 1656,R=F		
NGC 4824			Galaxy SA0	VF,VS
May 18 2009 31"	17mmT4	MF,MS,R,FLNUC,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,BSNUC,SBM		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
NGC 4827		H384-2	Galaxy S0-	F,CL
Feb 21 2020 36"	17mmT4	PF,PS,OVAL,FLNUC,R=F,TIME 2:34AM		

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NGC 4827 May 19 2009 31"	17mmT4	H384-2 MB,ML,R,BLNUC,GMBM,S BTIGHT CORE,AGC 1656,R=F	Galaxy S0-	F,CL
NGC 4828 May 19 2009 31"	17mmT4	MB,MS,R,BLNUC,GRADUALLY GET BM,AGC 1656,R=F	Galaxy S?	F,S,R
NGC 4839 Feb 21 2020 36" May 19 2009 31"	17mmT4 17mmT4	MB,MS,EL,LNUC,R=F,TIME 2:36AM MB,ML,EL-OVAL,BLNUC,MHISB CNTR,GRAN AREAS,AGC 1656,R=G	Galaxy E+	F,PL,R
NGC 4840 Feb 21 2020 36"	17mmT4	MB,PS,EL-OVAL,SNUC,R=F,TIME 2:42AM	Galaxy E1:	VF,VS
NGC 4841A Feb 21 2020 36"	17mmT4	MB,PS,BLNUC,HISB,COMP=N4841B,R=G,TIME 2:48AM	Galaxy E+ pec	PF,PL,R,VS*ATT
NGC 4841B Feb 21 2020 36"	17mmT4	MB,PS,BLNUC,HISB,COMP=N4841A,R=G,TIME 2:48AM	Galaxy E pec	PF,PL,R,VS*ATT
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,VSNUC,CLOSE COMP=4842A,AGC 1656,R=F	Galaxy E3:	
NGC 4864 May 14 2009 31"	17mmT4	MF,MS,EL,BLNUC,AGC 1656,R=F	Galaxy E2	F,S,P OF 2
NGC 4865 May 14 2009 31"	17mmT4	MB,MS,BSNUC,AGC 1656,R=F	Galaxy E6	VF,VS,*7,8F13S
NGC 4867 May 14 2009 31"	17mmT4	MF,PS,OVAL,BLNUC,AGC 1656,R=F	Galaxy E3	VF,VS,STELLAR,F4864
NGC 4869 Feb 21 2020 36" May 14 2009 31"	17mmT4 17mmT4	PF,PS,OVAL,BLNUC,MANY OTHERS PRESENT,R=F,TIME 2:56AM MF,MSR,F* JUST OFF SIDE,BSNUC,AGC 1656,R=F	Galaxy E3	CF,S,R,*7N
NGC 4871 May 14 2009 31"	17mmT4	MB,MS,OVAL,BSNUC,BM,AGC 1656,R=F	Galaxy SA0	VF,VS,STELL N
NGC 4872 May 14 2009 31"	17mmT4	MB,MS,OVAL,BSNUC,BM,AGC 1656,R=F	Galaxy SB0	PF,PS,R
NGC 4873 May 14 2009 31"	17mmT4	MB,MS,OVAL,BSNUC,BM,AGC 1656,R=F	Galaxy SA0	VF,VS

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NGC 4874		H389-2	Galaxy E+0	F,4869\$72 P
Feb 21 2020 36"	17mmT4	VB,VL,OVAL,BLNUC,HISB,MANY OTHERS PRESENT,R=G,TIME 2:53AM		
May 14 2009 31"	17mmT4	PB,PL,OVAL,MHISB CNTR,SBM,BLNUC,AGC 1656,R=G		
NGC 4875			Galaxy SA0	VF,VS,STELLAR
May 14 2009 31"	17mmT4	MF,MS,OVAL,BSNUC,AGC 1656,R=F		
NGC 4876			Galaxy E5	VF,VS,NO NUCL
May 14 2009 31"	17mmT4	MF,PS,OVAL,BSNUC,AGC 1656,R=F		
NGC 4882			Galaxy E0	VF,S,OTHERS NEAR
May 14 2009 31"	17mmT4	MF,MS,OVAL,BLNUC,AGC 1656,R=F		
NGC 4889		H391-2	Galaxy E+4	PB,PME,BM,*7N
Feb 21 2020 36"	17mmT4	VB,VL,BLNUC,HISB,MANY OTHERS PRESENT,R=G,TIME 3:02AM		
May 14 2009 31"	17mmT4	VB,VL,OVAL,GMBM,BLNUC,HISB,AGC 1656,R=G		
NGC 4892		H390-2	Galaxy S	VF
Feb 21 2020 36"	17mmT4	MF,PS,EDGE ON,FSNUC,R=F,TIME 3:05AM		
NGC 4894			Galaxy SA0	PF,S,R
May 14 2009 31"	17mmT4	PF,PS,PATCH,NND,AGC 1656,R=F		
NGC 4898			Galaxy E pec	VF,S,CLOSE TO 4894
May 14 2009 31"	17mmT4	MB,ML,EL-OVAL,BLNUC,AGC 1656,R=F		
NGC 4907			Galaxy SB(r)b	EF,VS,*13ATT
Apr 02 2021 36"	17mmT4	MB,ML,OVAL,FSNUC,SHISB,* OFF EDGE,B CNTR EQ BAR?, MANY OTHERS PRESENT,R=FG		
NGC 4908			Galaxy E5	VF,VS
Feb 21 2020 36"	17mmT4	MB,MS,OVAL,FLNUC,MANY COMPANIONS,R=F,TIME 3:09AM		
NGC 4911		H392-2	Galaxy SAB(r)bc	1ST OF4,F,PL,*11NP2'
Feb 21 2020 36"	17mmT4	PF,PS,OVAL,UB,NND,F* OFF EDGE,R=F,TIME 3:12AM		
NGC 4921		H393-2	Galaxy SB(rs)ab	F,PL,3RD OF 4
Feb 21 2020 36"	17mmT4	MF,PL,OVAL,FLNUC,MANY COMPANIONS,TIME 3:16AM		
NGC 4923		H394-2	Galaxy (R')SA(r)0-?	VF,4TH OF 4
Feb 21 2020 36"	17mmT4	MF,ML,OVAL,FLNUC,R=F,TIME 3:18AM		
NGC 4926			Galaxy SA0-:	PB,S,R,GLBM
Apr 07 2008 31"	17mmT4	MB,MS,R,BLNUC,MHISB CNTR,PAIRS=4926A/MAC'S,R=G		
NGC 4926A			Galaxy S0 pec?	
Apr 07 2008 31"	17mmT4	PF,PS,PATCH,FVSNUC,PAIRS=4926/MAC'S,R=P		

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NGC 4927		H364-3	Galaxy SA0-	VF
Feb 21 2020 36"	17mmT4	MF,PS,FSNUC,F* OFF TIP,R=F,TIME 3:20AM		
NGC 4944		H395-2	Galaxy S0/a? sp	F,S,R,BM,*9NF1'
Feb 21 2020 36"	17mmT4	MF,PS,EL,FLNUC,R=F,TIME 3:22AM		
Apr 07 2008 31"	17mmT4	MF,MS,EL,FLNUC,SHISB CNTR,PAIRS=PGC45162/MAC'S,R=F		
NGC 4952		H396-2	Galaxy E	F,S,R,PSBM*11
Feb 21 2020 36"	17mmT4	MF,PS,R,LNUC,R=F,TIME 3:25AM		
NGC 4957		H397-2	Galaxy E3	F,S,R
Feb 21 2020 36"	17mmT4	MF,PS,R,FLNUC,R=F,TIME 3:27AM		
NGC 4961		H398-2	Galaxy sB(s)cd	F,S,IF
Feb 21 2020 36"	17mmT4	PF,MS,PATCH,UB,NND,R=F,TIME 3:29AM		
NGC 4966		H304-3	Galaxy S	VF,VS,VLE,VGLBM,**SP
Apr 02 2021 36"	17mmT4	MB,MSS,EL,FLNUC,B* CLOSE BY,VF* OFF SIDE,MHISB CNTR,GMBM,R=FG		
NGC 4979		H346-3	Galaxy SB?	EF,PL,LE
Apr 02 2021 36"	17mmT4	MF,ML,OVAL,FLNUC,B* IN FOV,R=F		
NGC 4983		H365-3	Galaxy S?	VF
Feb 21 2020 36"	17mmT4	VF,MS,PATCH,UB,NND,R=P,TIME 3:31AM		
NGC 5000		H366-3	Galaxy SB(rs)bc	CF,PS,LE
Feb 21 2020 36"	17mmT4	MF,ML,OVAL,PATCH,UB,NND,R=F,TIME 3:33AM		
NGC 5004		H305-3	Galaxy S0	VF,VS,VLE
Apr 02 2021 36"	17mmT4	MB,MS,OVAL,BSNUC,MHISB,HISB CNTR,PAIR=N5004A,R=FG		
NGC 5004A			Galaxy SBab	
Apr 02 2021 36"	17mmT4	PF,MS,EL,UB,NND,B* JUST OFF GLXY,PAIR=N5004,R=F		
NGC 5012		H85-1	Galaxy SAB(rs)c	PF,CL,E17,BIN,*9F
Mar 22 2004 12.5"	12mmT4	MF,MS,EL,PATCH,UB,SHISB,R=F		
NGC 5016		H356-2	Galaxy SAB(rs)c	PB,S
Apr 02 2021 36"	17mmT4	PB,PL,OVAL,BLNUC,MHISB,GRAN HALO SUR NUC,F=G		
NGC 5024	M53		Globular	GCL,B,VC,IR,VVMBM,
Apr 11 2015 36"	17mmT4	(Class V),VB,VL,RSLV TO CORE,GRP OF B*'S OFF ONE SIDE OF NUC,MHISB SECTIONS IN NUC,*'S FALL OFF SHARPLY MOVING AWAY FROM NUC,R=EE		
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	VB,VL,BNUC,R,OUTER *'S RSLV,BLNUC		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		

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NGC 5032		H367-3	Galaxy SB(r)b	VF,PL,IR
Feb 21 2020 36"	17mmT4	MF,ML,PATCH,UB,NND,COMP=PGC45940,R=F,TIME 3:35AM		
NGC 5053		H7-6	Globular XI	CL,VF,PL,IR,VGBM,*15
Apr 11 2015 36"	17mmT4	(Class X),MB,PL,DOZ OR SO B*S LOOSELY SC,LTL CL IN NUC AREA DET,OC LIKE,R=G		
Mar 22 2004 12.5"	12mmT4	VDIF,EF,VL,OVAL,F PATCHY AREAS DET,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		
NGC 5116		H368-3	Galaxy SB(s)c:	PF,PS,PME,GLBM,R
Feb 21 2020 36"	17mmT4	MB,ML,EL-EDGE ON,UB,NND,MHISB,R=F,TIME 3:37AM		
NGC 5180		H71-3	Galaxy S0?	VF,S,R,AM3*,*7NF
Mar 21 2020 36"	17mmT4	PB,MS,EL,BSNUC,MHISB,VF* OFF NUC,F * OFF EDGE,B* IN FOV,R=FG		
PGC 37702			Galaxy S?	
Mar 17 2009 31"	17mmT4	VF,VS,EL TO EDGE ON,PATCH,UB,VF ,EL 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	
Mar 08 2010 31"	17mmT4	VF,PS,EDGE ON,UB,NND,AV TOOK A WHILE TO HOLD,PAIRS=NGC'S/MAC,R=P		
PGC 38387			Galaxy E	
Feb 21 2020 36"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,PAIR=N4104,R=F		
PGC 38748			Galaxy Scd:	
Apr 26 2014 36"	17mmT4	MF,MS,EDGE ON,UB,NND,PA~10,VF* OFF ONE SIDE CLOSE,THICKER IN CNTR,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		

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PGC 39432		Galaxy Sd
May 30 2014 36"	17mmT4	PF,VL,EDGE ON,NND,PA~90,SMWHT CNTR BULGE,'THIN SCRATCH ON LENSE',R=G
PGC 41463		Galaxy D
Mar 09 2021 36"	17mmT4	EF,VS,PATCH,UB,AV,2 OBJ ON TOP OF EACH OTHER,LOC GOOD,INTRACT=N2529,R=P
PGC 41639		H26-3 Galaxy Scd:
Apr 02 2021 36"	17mmT4	This is H26-3 (UGC 7697) VF,MS,EL-EDGE ON,UB,NND,R=F
PGC 43462		Galaxy S
May 14 2009 31"	17mmT4	MF,MS,EL,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,EL,PATCH,UB,NND,AGC1656,R=P
May 14 2009 31"	17mmT4	MF,MS,EL,PATCH,UB,NND,R=F
PGC 43583		Galaxy E/S0
May 14 2009 31"	17mmT4	MF,MS,OVAL,BLNUC,AGC 1656,R=F
PGC 43618		Galaxy E?
May 17 2009 31"	17mmT4	MF,MS,OVAL,FLNUC,KEEP * OUT OF FOV,AGC1656,R=F
PGC 43619		Galaxy E/S0
May 17 2009 31"	17mmT4	MF,MS,OVAL,FLNUC,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,EL,UB,NND,MHISB,AGC1656,R=G
PGC 43840		Galaxy S
May 17 2009 31"	17mmT4	MF,MS,EL,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

Coma Berenices - Berenice's Hair

PGC 43863		Galaxy Sb
May 31 2014 36"	17mmT4	MB,ML,EDGE ON,UB,NND,PA~90,SMWHT BM,TAPERED 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,FLNUC,AGC1656,R=F
PGC 43952		Galaxy E
May 17 2009 31"	17mmT4	MF,MS,EL-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,FSNUC,AGC1656,R=P
PGC 44031		Galaxy
May 17 2009 31"	17mmT4	MF,PS,R,FSNUC,AGC1656,R=F
PGC 44043		Galaxy S0?
May 17 2009 31"	17mmT4	MF,MS,FLNUC,KEEP B* OUT OF FOV,AGC1656,R=F
PGC 44044		Galaxy S
May 17 2009 31"	17mmT4	MF,MS,EL-EDGE ON,BSNUC,SHISB CNTR,AGC1656,R=F
PGC 44105		Galaxy
May 18 2009 31"	17mmT4	MF,MS,R,FSNUC,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,FLNUC,AGC 1656,R=F
PGC 44151		Galaxy L
May 19 2009 31"	17mmT4	MF,MS,R,BSNUC,AGC 1656,R=F
PGC 44159		Galaxy
May 18 2009 31"	17mmT4	MF,PS,PATCH,*NUC,VF* IN OR SUR GLXY,AGC 1656,R=P
PGC 44193		Galaxy S?
May 19 2009 31"	17mmT4	MF,MS,EL,FLNUC,AGC 1656,R=F
PGC 44195		Galaxy S
May 19 2009 31"	17mmT4	PF,PS,PATCH,FNUC,AGC 1656,R=F

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PGC 44196		Galaxy E
May 19 2009 31"	17mmT4	MB,MS,FSNUC,AGC 1656,R=F
PGC 44212		Galaxy S
May 19 2009 31"	17mmT4	PF,PS,PATCH,VFSNUC,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,EL,BLNUC,AGC 1656,R=F
PGC 44263		Galaxy SB?
May 19 2009 31"	17mmT4	MB,ML,EL,BLNUC,A V NICE PGC,AGC 1656,R=F
PGC 44268		Galaxy S?
May 19 2009 31"	17mmT4	MB,MS,R,BSNUC,AGC 1656,R=F
PGC 44304		Galaxy S0
May 19 2009 31"	17mmT4	MF,PS,R,BSNUC,AGC 1656,R=F
PGC 44432		Galaxy SBcd?
Apr 07 2008 31"	17mmT4	VDIF,VF,PL,OVAL,PATCH,UB,NND,NO FIELD *S SUR GLXY,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,FSNUC,AGC 1656,R=F
PGC 44597		Galaxy
May 14 2009 31"	17mmT4	PF,PS,CLOSE COMP=PGC44598,CAN SEP,AGC 1656,R=F
PGC 44598		Galaxy
May 14 2009 31"	17mmT4	PF,PS,PATCH,CLOSE COMP=PGC44597,CAN SEP,AGC 1656,R=F

Coma Berenices - Berenice's Hair

PGC 44602		Galaxy
May 14 2009 31"	17mmT4	VF,PS,OVAL,V 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,V 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,BSNUC,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,INTRACT,CANNOT SEP,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,INTRACT,CANNOT SEP,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,TOUCH NGC4884 NUC,AGC 1656,R=P
PGC 44741		Galaxy
May 14 2009 31"	17mmT4	VF,PS,PATCH,AGC 1656,R=P
PGC 45162		Galaxy SB?
Apr 07 2008 31"	17mmT4	VF,VS,OVAL,VFSNUC,PAIRS=4944/MAC'S,R=P
PGC 45463		Galaxy S
Mar 20 2009 31"	17mmT4	MF,MS,EL,FSNUC,VF* OFF ONE TIP,GLXY HAS A BEND IN IT,NUC REG OFF 1 SIDE,R=F

Coma Berenices - Berenice's Hair

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,FSNUC,PAIRS=MAC'S/PGC46054,R=F

Mar 20 2009 31" 17mmT4 PF,PS,OVAL,VFSNUC,INTRACT=PGC46054,CANNOT SEP,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,V CLOSE INTRACT=PGC46036,CANNOT SEP 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=PGC46225,R=P