

# ARP Peculiar Galaxies Observations

## ARP 1

NGC 2857 UMa Galaxy SA(s)c VF,PL,4ST P  
 Apr 07 2008 31" 17mmT4 DIF,VF,VL,OVAL,R,UB,NND,3F\*\*S ON EDGE,R=F

## ARP 2

PGC 57678 Her Galaxy SB(s)m  
 Mar 17 2007 31" 17mmT4 VDIF,EF,EL,OVAL,PATCY,SEVERAL VF\*\*S IN AND AROUND GAL,R=P

## ARP 3

PGC 69293 Aqr Galaxy SA(s)m  
 Sep 12 2007 31" 17mmT4 EF,VL,PATCH,UB,NND,R=P

## ARP 5

NGC 3664 Leo Galaxy SB(s)m pec PF,BIN  
 Mar 03 1984 12.5" 12mm NO FIND,B\* IN FIELD

## ARP 6

NGC 2537 Lyn H55-4 Galaxy SB(s)m pec GCL,PB,PL,R,RRR,ST20  
 Nov 24 2003 31" 17mmT4 MB,VL,R,NND,SHISB,VF\* ON EDGE,BAR SUSP,DUST SUSP,KNT IN GAL DET,PAIR=2537A,R=E

## ARP 7

IC 2411 Cnc Galaxy S  
 Mar 26 2006 31" 17mmT4 PF,PS,ELONG,EDGE ON,PATCH,UB,NND,PAIR=2667,R=F

## ARP 9

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

## ARP 10

PGC 8802 Cet Galaxy S?  
 Sep 12 2007 31" 17mmT4 MF,MS,OVAL,R,SMALL BNUC,SOMEWHAT HISB MIDDLE,R=F

## ARP 12

NGC 2608 Cnc H318-2 Galaxy SB(s)b: F,VLE,MBM,R  
 Feb 21 1984 12.5" 12mm SAME  
 Oct 24 1981 12.5" 12mm EDIF,VF,PS,PATCHY,UB,NND  
 Dec 03 1980 12.5" 24mm

## ARP 13

NGC 7448 Peg H251-2 Galaxy SA(rs)bc PB,L,E173,VGBM,\*F2'  
 Sep 21 1984 12.5" 12mm MF,PL,ELONG,MOD HISB,BETWEEN 2\*\*S,SBM,NO \*S  
 Jul 07 1981 12.5" 24mm DIF,MF,ML,FAINT ARM  
 Sep 10 1980 12.5" 24mm  
 Jul 15 1980 12.5" 24mm PF,LOC BETWEEN 2F\*S  
 Jul 12 1980 12.5" 24mm

## ARP 14

NGC 7314 PsA Galaxy SAB(rs)bc CF,L,ME0,VLBM  
 Sep 27 1981 12.5" 16mm DIF,MB,ML,PATCHY,\*E SIDE,OVAL,NND,UB

## ARP 15

NGC 7393 Aqr H453-2 Galaxy SB(rs)c pec VF,PL,LE,VGBM,R  
 Sep 04 2005 31" 17mmT4 MB,PL,PATCH,UB,NND,MOD HISB,R=G

## ARP 16

NGC 3627 Leo M66 Galaxy SAB(s)b B,VL,ME150,MBM,2\*NP  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 Feb 15 2004 31" 17mmT4 EB,EL,OVAL,LARGE BNUC,BRT BAR,SPR ARMS DET,DUST DET,HISB,M66, BEST TODATE,R=E  
 Mar 03 1984 12.5" 12mm VB,VL,EDGE ON,BNUC,GBM,VERY BRT SMALL NUC,B\*NW,FAINTER \* SW

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## ARP 16

NGC 3627	Leo	M66		Galaxy SAB(s)b	B,VL,ME150,MBM,2*NP
Mar 02 1984	10"	20mm	SAME		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5"	24mm	EB,EL,ELONG,BNUC,BRT HALO,PAIR/3626/3628		
Dec 03 1980	12.5"	24mm			
Jun 10 1980	6"	24mm			
Apr 18 1980	6"	24mm	CLOSE PAIR/M65		

## ARP 17

PGC 21685	Cam			Galaxy S	
Dec 19 2006	31"	17mmT4	PF,PS,PATCH,UB,NND,APPEAR AS ONE OBJECT,IRR IN SHAPE,INTERACTING=PGC21693,R=P		
PGC 21693	Cam			Galaxy SB?	
Dec 19 2006	31"	17mmT4	PF,PS,PATCH,UB,NND,APPEAR AS ONE OBJECT,IRR IN SHAPE,INTERACTING=PGC21685,R=P		

## ARP 18

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		

## ARP 20

PGC 14892	Tau			Galaxy SB?	
Oct 20 2006	31"	17mmT4	MF,ML,OVAL,PATCH,NND,SOMEWHAT HISB,BETWEEN TRI OF **S,R=F		

## ARP 21

PGC 33487	LMI			Galaxy SBbc	
Apr 09 2008	31"	17mmT4	PF,MS,OVAL,UB,NND,SOMEWHAT HISB,PAIRS=PGC'S/MAC'S,R=F		

## ARP 22

NGC 4027	Crv		H296-2	Galaxy SB(s)dm	GCL,PF,PL,R,RR,ST16
Apr 06 2008	31"	17mmT4	MB,ML,OVAL,MOD HISB,V*OUTTER EDGE,LG CENTRAL REGI,PATCHY NUC,MBM,PAIR=4027A,R=G		
May 03 1981	12.5"	16mm	DIF,PB,PL,DNUC,FAINT HALO		
NGC 4027A	Crv			Galaxy IB(s)m:	
Apr 06 2008	31"	17mmT4	VF,MS,OVAL,PATCH,UB,NND,PAIR=4027,R=P		

## ARP 23

NGC 4618	CVn		H178-1	Galaxy SB(rs)m	B,L,E,MBM,CVDBRANCHN
Feb 17 2004	31"	17mmT4	PB,VL,SHISB,IRR,2 HALVES,APP AS 2 GAL SIDE BY SIDE,ONE HALF BRTER,PAIR=4625,R=E		
Jan 28 1982	12.5"	16mm	MF,PL,OVAL-R,COMP TO N (4625),SBM,B* TO S,APPEARS TO BE 2 GAL OR DARK LANE		
Mar 27 1981	12.5"	24mm			

## ARP 24

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		
PGC 32784	UMa			Galaxy Sm	
Feb 05 2005	31"	17mmT4	EF,MS,PATCH,SUSP,PAIR=3445,R=P		

## ARP 25

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		

## ARP 26

NGC 5457	UMa	M101		Galaxy SAB(rs)cd	PB,VL,IR,G,VSMBMBSN 4
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		

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## ARP 26

NGC 5457 UMa M101 Galaxy SAB(rs)cd PB,VL,IR,G,VSMBMSN 4  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Apr 16 1980 6" 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

## ARP 27

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

## ARP 28

NGC 7678 Peg H226-2 Galaxy SAB(rs)c VF,PL,VLE,LBM,AM4ST  
 Sep 21 1984 12.5" 16mm SAME,DIF,PF,MS,UB,NND  
 Jul 29 1981 12.5" 12mm DIF,MF,PS,FAINT HALO,3\*S APPROX 11TH MAG  
 Sep 10 1980 12.5" 24mm 3B\*S IN GAL

## ARP 29

NGC 6946 Cep H76-4 Galaxy SAB(rs)cd VF,VL,VG,VSBM,RR  
 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

## ARP 30

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

## ARP 31

IC 167 Ari Galaxy SAB(s)c  
 Oct 04 2005 31" 17mmT4 MF,PL,OVAL,PATCH,UB,NND,PAIR=694,R=F

## ARP 32

PGC 59862 Dra Galaxy Im pec  
 Mar 26 2006 31" 17mmT4 VF,PS,ELONG,PATC,UB,NND,PAIR=PGC59864,R=F  
 PGC 59864 Dra Galaxy SBm? pec  
 Mar 26 2006 31" 17mmT4 VF,PS,ELONG,PATCH,UB,NND,PAIR=PGC59862,R=F

## ARP 33

MAC 1337+ Vir Galaxy  
 May 06 2007 31" 17mmT4 PF,PS,OVAL,PATCH,UB,NND,PAIRS=MANY OTHERS,R=P  
 PGC 48118 Vir Galaxy SB  
 May 18 2007 31" 17mmT4 PF,MS,ELONG,OVAL,UB,NND,PAIRS=MANY OTHERS,R=F

## ARP 36

PGC 47808 CVn Galaxy SB?  
 Mar 17 2007 31" 17mmT4 VDIF,VF,ML,OVAL,UB,NND,R=P

## ARP 37

NGC 1068 Cet M77 Galaxy (R)SA(rs)b VB,PL,IR,SBMRRN

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## ARP 37

NGC 1068	Cet	M77		Galaxy (R)SA(rs)b	VB,PL,IR,SBMRRN
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10"	20mm	SAME		
Sep 27 1981	12.5"	16mm	PB,PL,SUDDENLY BUILDS TO BRIGHT STAR LIKE NUC,FACE ON,FAINT HALO ARMS DET		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5"	24mm			
Oct 29 1980	8"	24mm			
Sep 18 1980	12.5"	24mm			
Sep 07 1980	12.5"	24mm			

## ARP 38

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		

## ARP 40

IC 4271	CVn			Galaxy S	
Mar 17 2007	31"	17mmT4	MF,MS,,R,UB,NND,R=F		

## ARP 41

NGC 1232	Eri		H258-2	Galaxy SAB(rs)c	PB,CL,R,GBM,R
Oct 24 1981	12.5"	12mm	DIF,MF,PL,VF* W 1 GAL DIA,R,SPR STR SUSP,NND		
Oct 31 1980	12.5"	24mm			
Sep 09 1980	12.5"	24mm			

## ARP 42

NGC 5829	Boo			Galaxy SA(s)c	VF,VL,IRRR,BM
Mar 29 2006	31"	17mmT4	MF,ML,OVAL,PATCH,UB,NND,PAIRS=IC4526/PGC53720,R=F		

## ARP 43

IC 607	Leo			Galaxy SB(rs)bc	
Mar 26 2006	31"	17mmT4	MF,ML,R,PATCH,VSFNUC,ROUND HALO,BI* IN GAL,R=F		

## ARP 44

IC 609	Sex			Galaxy SAB(rs)bc pec	
Mar 26 2006	31"	17mmT4	MF,ML,OVAL,PATCH,VERY SMALL FNUC,R=F		

## ARP 45

PGC 51214	Boo			Galaxy SB?	
Mar 29 2006	31"	17mmT4	VF,VS,PATCH,UB,NND,PAIR=PGC51181,R=P		

## ARP 46

PGC 71748	Peg			Galaxy S	
Sep 05 2007	31"	17mmT4	VF,PL,OVAL,PATCH,UB,NND,VF* CLOSE TO NUC,PAIR=PGC71753,R=P		

## ARP 47

MAC 1447+	Boo			Galaxy	
Mar 29 2006	31"	17mmT4	PF,VS,OVAL,VSFNUC,* CLOSE BY,COMP=PGC52803,PAIR=MAC,R=F		
PGC 52803	Boo			Galaxy SB	
Mar 29 2006	31"	17mmT4	PF,VS,OVAL,VSFNUC,* CLOSE BY,COMP=MAC,PAIR=MAC,R=F		

## ARP 49

NGC 5665	Boo		H27-2	Galaxy SAB(rs)c pec?	PB,PL,R,GBM,R
May 06 1981	12.5"	24mm	DIF,MB,ML,BRT HALO		

## ARP 50

NGC 5625	Boo			Galaxy Sbc	VF,S,R,GBM
Mar 29 2006	31"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,R=F		

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## ARP 52

PGC 17109 Ori Galaxy  
 Oct 25 2006 31" 17mmT4 PF,PS,OVAL,PATCH,UB,NND,R=F

## ARP 53

NGC 3290 Hya Galaxy SAB(rs)bc: pec EF,S,LE0,GBM,B\*N6'  
 Mar 26 2006 31" 17mmT4 PF,MS,OVAL,PATCH,UB,NND,B\* IN FOV,APPEARS EDGE ON WHEN \* OUT OF FOV,R=F

## ARP 54

PGC 9107 Cet Galaxy  
 Sep 12 2007 31" 17mmT4 EF,VS,PATCH,AV,PAIR=PGC9113,R=P

PGC 9113 Cet Galaxy SBc  
 Sep 12 2007 31" 17mmT4 MF,MS,OVAL,PATCH,UB,NND,PAIR=PGC9107,R=F

## ARP 55

PGC 26124 Lyn Galaxy C  
 Mar 20 2007 31" 17mmT4 PF,MS,OVAL,LARGE BNUC,B\* CLOSE BY,PAIR=MAC,R=F

PGC 26132 Lyn Galaxy Double System  
 Mar 20 2007 31" 17mmT4 MF,MS,OVAL,BAR LIKE NUC,FAINT OUTER RING PART DET,2VF\*S IN EDGE,PAIR=MAC,R=F

## ARP 56

PGC 7359 Ari Galaxy Sbc  
 Oct 20 2006 31" 17mmT4 PF,PS,OVAL,PATCH,UB,NND,R=P

## ARP 58

PGC 23935 Cnc Galaxy SAB(rs)c pec  
 Mar 26 2006 31" 17mmT4 DIF,PF,VL,OVAL,PATCH,NND,VERY LARGE CENTRAL REGION,PATHCY,R=F

## ARP 62

PGC 37282 UMa Galaxy S?  
 Apr 09 2008 31" 17mmT4 MF,MS,EDGO ON,NND,SHISB,ONE SIDE THICKER,VF\* OFF TIP,R=F

## ARP 63

NGC 2944 Leo Galaxy SB(s)c pec? F,VS,LBM  
 Mar 10 2007 31" 17mmT4 PF,MS,EDGE ON,UB,NND,PAIRS=PGC'S/MAC,R=F

Feb 25 2004 31" 17mmT4 MF,MS,ELONG TO EDGEON,SLIGHTLY BM ALONG BAR,PAIR=PGC27546,R=F

## ARP 64

PGC 52698 Boo Galaxy Sb  
 Mar 29 2006 31" 17mmT4 PF,MS,ELONG,EDGE ON,PATCH,UB,NND,PAIR=PGC52675,R=F

## ARP 65

NGC 91 And Galaxy S VF,VS,\*13SP  
 Nov 20 2003 31" 17mmT4 MF,ML,ELONG,PATCH,SMALL FNUC,NGC 83 CLUSTER OF 13,R=F

Oct 05 2002 12.5" 9mmT6 VDIF,PF,PL,PATCH,UB,NND,PAIR=93

NGC 93 And Galaxy S? VF,VS

Nov 20 2003 31" 17mmT4 VB,PL,R,LARGE BNUC,HISB MIDDLE,NGC 83 CLUSTER OF 13,R=E

Oct 05 2002 12.5" 9mmT6 PB,ML.BNUC,MOD HISB,R,SMBM,PAIR=91

## ARP 66

PGC 58150 Dra Galaxy Sbc  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,PATCH,NND,PATCHY NUC AREA DET,R=F

## ARP 69

NGC 5579 Boo H415-3 Galaxy Sc VF,CL,P OF 2  
 Mar 29 2006 31" 17mmT4 DIF,PF,VL,R,UB,NND,R=F

## ARP 71

MAC 1605+ Her Galaxy  
 Apr 26 2006 31" 17mmT4 EF,VS,PATCH,AV,SUSP,JUST OFF TIP OF 6045,ATTACHED,BARELY SUSP WITH AV,PAIRS,R=P

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## ARP 71

NGC 6045 Her Galaxy SB(s)c sp EEF,VS,R,VDIFFIC  
 Apr 26 2006 31" 17mmT4 PF,MS,EDGE ON,UB,NND,PAIRS=NGC'S/MAC,R=F  
 Mar 29 2006 31" 17mmT4 MF,MS,EDGE ON,PATCH,UB,NND,AGC 2151,R=F

## ARP 72

NGC 5994 Ser Galaxy SB? S,SP 5994  
 Apr 06 2008 31" 17mmT4 VF,VS,PATCH,NND,PAIR=5996,R=P  
 Apr 26 2006 31" 17mmT4 PF,PS,PATCH,UB,NND,PAIR=5996,R=F  
 NGC 5996 Ser H97-2 Galaxy S? PF,CS,R,R,BET 2D\*  
 Apr 06 2008 31" 17mmT4 MB,MS,OVAL,SMALL BNUC,BAR LIKE NUC,PAIR=5994,R=G  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,SMALL FNUC,SMALL COMPACT NUC,BAR DET,F ARMS FROM END OF BAR,R=G

## ARP 73

IC 1222 Her Galaxy SAB(s)c  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,SHISB,FAINT CENTRAL BAR,STELLAR LIKE NUC,R=F

## ARP 74

PGC 8161 And Galaxy SAB(rs)c  
 Oct 25 2006 31" 17mmT4 MF,MS,OVAL,PATCH,UB,NND,VERY CLOSE COMP=MAC,R=F

## ARP 76

IC 3583 Vir Galaxy IBm  
 May 18 2007 31" 17mmT4 DIF,MF,VL,PATCH,UB,3\*S IN GAL,APPEARS AS A NEBULA,PATCHY AREAS,R=F  
 NGC 4569 Vir M90 Galaxy SAB(rs)ab PL,BMN  
 May 18 2007 31" 17mmT4 EB,EL,ELONG,SM VERY BNUC,SM WELL DEFINED NUC,FARMS,DUST AREA SUSP ONE SIDE,R=E  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 Jun 04 1981 12.5" 24mm EB,EL,ELONG,BNUC,BRT HALO  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Jun 10 1980 6" 24mm

## ARP 77

NGC 1097 For H48-5 Galaxy SB(s)b VB,L,VME151,VBMN  
 Sep 10 1980 12.5" 24mm  
 Sep 09 1980 12.5" 24mm

## ARP 78

NGC 770 Ari Galaxy E3: VF,S,R,SP772  
 Oct 22 1982 12.5" 16mm SAME  
 Sep 24 1981 12.5" 16mm EDIF,VF,ES,R,STELL NUC,SLIGHT HAZE AROUND NUC,COMPANION W/772  
 NGC 772 Ari H112-1 Galaxy SA(s)b B,CL,R,GBM,R  
 Oct 23 1982 12.5" 16mm SAME  
 Sep 24 1981 12.5" 16mm PB,PL,SMBM,ELONG,\* E SIDE,FAINT 15TH MAG COMP W/770 1 GAL DIA,BNUC,FARMS  
 Oct 31 1980 12.5" 24mm  
 Oct 29 1980 8" 24mm  
 Sep 10 1980 12.5" 24mm  
 Sep 07 1980 12.5" 24mm NICE!!,VL,PF,SIMILAR TO M33

## ARP 79

NGC 5490C Boo Galaxy SB(s)bc  
 Mar 26 2006 31" 17mmT4 PF,MS,OVAL,PATCH,UB,NND,PAIRS=IC983/IC982/OTHERS,R=F

## ARP 80

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

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## ARP 81

NGC 6621	Dra			Galaxy Sb: pec	PF,PS,R,LBM,S OF 2
Jul 09 2005	31"	17mmT4	MB,ML,ELONG,LARGE BNUC,SHISB,TAPPERED 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		

## ARP 82

NGC 2535	Cnc			Galaxy SA(r)c pec	EF,VS,R
Mar 17 2007	31"	17mmT4	PB,PL,OVAL,PATCH,UB,PATCHY NUC,SHISB,PAIR=2536,R=G		
NGC 2536	Cnc			Galaxy SB(rs)c pec	VF,VS,R
Mar 17 2007	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,PAIR=2535,R=F		

## ARP 83

NGC 3799	Leo			Galaxy SB(s)b: pec	CF,R,P OF 2
Mar 29 2006	31"	17mmT4	PB,PL,COMP=3800,R,LARGE FNUC,MHISB,SOMEWHAT BM,R=G		
NGC 3800	Leo			H103-2 Galaxy SAB(rs)b: pec	F,PS,E,PGLBM,R,FOF 2
Mar 29 2006	31"	17mmT4	VB,VL,ELONG,PATCH,UB,NND,HISB,COMP=3799,IRR IN SHAPE,R=E		

## ARP 84

NGC 5394	CVn		H191-1	Galaxy SB(s)b pec	CF,S,NP OF 2
Mar 17 2007	31"	17mmT4	PB,ML,OVAL,*NUC,SHISB,SUDDENLY MBM,PAIR=5395,R=G		
NGC 5395	CVn		H190-1	Galaxy SA(s)b pec	CF,CL,E15,LBM,SF OF2
Mar 17 2007	31"	17mmT4	VF,VL,ELONG,OVAL,LARGE FNUC,MHISB,SPIRAL ARMS DET,PATCH AREAS,PAIR=5394,R=E		
Jan 28 1982	12.5"	16mm	DIF,PB,PL,ELONG,GBM		

## ARP 85

NGC 5194	CVn	M51		Galaxy SA(s)bc pec	GREAT SPIRAL NEBULA
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Dec 26 2003	31"	17mmT4	(CONT) REGIONS DET,M51,R=E		
Dec 26 2003	31"	17mmT4	EB,EL,R,SMALL BNUC,GMBM,SPRIAL ARMS DET,BEST EVER SEEN,BRT CENTRAL CORE,BRT H2		
Mar 02 1984	10"	20mm	SAME		
Jan 28 1982	12.5"	16mm	DARK AREAS SEPARATE WINDING ARMS,INTERACTING WITH 5195		
Jan 28 1982	12.5"	24mm	VB,VL,BNUC,BARMS,*S IN S PART,BRIDGE COMPLETE,SPR STR DET		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5"	24mm			
Oct 31 1980	12.5"	24mm			
Jul 14 1980	12.5"	24mm			
Jul 11 1980	12.5"	24mm			
Jul 05 1980	12.5"	24mm			
May 07 1980	5"	9mm			
Apr 18 1980	6"	24mm			
Apr 16 1980	6"	24mm			
NGC 5195	CVn		H186-1	Galaxy I0 pec	B,PS,LE,VGBM,INV-M51
Jan 28 1982	12.5"	24mm	MB,ML,BNUC,OVAL,BM,INTERACTING WITH M51		
Apr 16 1980	6"	24mm			

## ARP 86

NGC 7752	Peg			Galaxy I0:	F,S,LE,P 7753
Sep 05 2007	31"	17mmT4	MB,PL,LARGE BNUC,2*S IN GAL,MBM,CENTRAL REGION PATCHY,PAIR=7753,R=F		
NGC 7753	Peg		H213-2	Galaxy SAB(rs)bc	CF,CL,VLE,VGLBM,R
Sep 05 2007	31"	17mmT4	MF,ML,NND,MOD HISB,PAIR=7752,R=F		

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# ARP Peculiar Galaxies Observations

## ARP 87

NGC 3808 Leo H338-3 Galaxy SAB(rs)c: pec VF,VS  
 Mar 29 2006 31" 17mmT4 MF,ML,OVAL,UB,NND,SHISB,PAIR=3808A/MAC,R=G

NGC 3808A Leo Galaxy I0? pec  
 Mar 29 2006 31" 17mmT4 PF,MS,ELONG,BRT ALONG EQ REGION,PAIR=3808/MAC.R=F

## ARP 89

NGC 2648 Cnc H49-3 Galaxy Sa F,S,VLE135,PSBM  
 Mar 26 2006 31" 17mmT4 VB,VL,ELONG,LBNUC,FAINT OUTER ARMS,MBM,HISB MIDDLE,LARGE CENTRAL BULGE,PAIR,R=E

PGC 24469 Cnc Galaxy S?  
 Mar 26 2006 31" 17mmT4 PF,MS,ELONG,PATCH,UB,NND,PAIR=2648,R=F

## ARP 90

NGC 5929 Boo Galaxy Sab: pec VF,VS,SP OF DNEB  
 Mar 29 2006 31" 17mmT4 MBMML,R,SBNUC,CLOSE COMP=5930,BM,SMBM,PAIR=PGC55095,R=G

NGC 5930 Boo H651-2 Galaxy Sa PF,PS,R,NF OF DNEB  
 Mar 29 2006 31" 17mmT4 PB,PL,OVAL,SBNUC,CLOSE COMP=5929,BM,SMBM,PAIR=PGC55095,R=G

## ARP 91

NGC 5953 Ser H178-2 Galaxy SAa: pec PB,CS,P OF D NEB  
 Apr 26 2006 31" 17mmT4 MB,MS,R,SMALL BNUC,F\* OFF ONE SIDE,MOD HISB MIDDLE,BM,PAIR=5954,R=G

NGC 5954 Ser H179-2 Galaxy SAB(rs)cd: pec PB,CS,F OF D NEB  
 Apr 26 2006 31" 17mmT4 MF,MS,PATCH,UB,NND,MOD HISB,PAIR=5953,R=G

## ARP 93

NGC 7284 Aqr H469-2 Galaxy SB(s)0<sup>^</sup> pec CF,CS,LE,R,D\*INV  
 Sep 02 2005 31" 17mmT4 PB,ML,ELONG,LARGE BNUC,GMBM,HISB MIDDLE,INTERACTING=7285,R=G

NGC 7285 Aqr Galaxy SB(rs)a pec NEB\*1'DIST FROM7284  
 Sep 02 2005 31" 17mmT4 PB,ML,ELONG,LARGE BNUC,GMBM,HISB MIDDLE,INTERACTING=7284,R=G

## ARP 94

NGC 3226 Leo H28-2 Galaxy E2: pec PB,CL,R,DW/3227  
 Feb 25 1984 12.5" 12mm MB,PS,BNUC,BM,R,CLOSE PAIR/3227

Jan 30 1981 12.5" 24mm DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3227  
 Dec 03 1980 12.5" 24mm COMP CLOSE,PAIR/3227

NGC 3227 Leo H29-2 Galaxy SAB(s)a pec PB,CL,R,DW/3226  
 Feb 25 1984 12.5" 12mm MB,MS,ELONG,BNUC,SBM,CLOSE PAIR/3226,NO \*S  
 Jan 30 1981 12.5" 24mm DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3226  
 Dec 03 1980 12.5" 24mm COMP CLOSE,PAIR/3226

## ARP 95

IC 4461 Boo Galaxy Double System  
 Mar 29 2006 31" 17mmT4 PF,PS,ELONG,VSFNUC,PAIRS=IC4462/PGC52120,R=F

IC 4462 Boo Galaxy L  
 Mar 29 2006 31" 17mmT4 VF,VS,ELONG,VSFNUC,PAIRS=IC4461/PGC52120,R=P

PGC 52120 Boo Galaxy S  
 Mar 29 2006 31" 17mmT4 VF,VS,OVAL,PATCH,UB,NND,PAIRS=IC4461/IC4462,R=P

## ARP 97

PGC 38325 UMa Galaxy SA(r)0- pec  
 Apr 09 2008 31" 17mmT4 PF,MS,ELONG,SMALL FNUC,CLOSE COMP=PGC38327,SLIGHTLY BM,R=F

PGC 38327 UMa Galaxy SAB0- pec:  
 Apr 09 2008 31" 17mmT4 PF,MS,ELONG,SMALL FNUC,CLOSE COMP=PGC38325,SLIGHTLY BM,R=F

## ARP 98

PGC 5714 Tri Galaxy C

# ARP Peculiar Galaxies Observations

## ARP 98

PGC 5714 Tri Galaxy C  
 Oct 20 2006 31" 17mmT4 VF,ES,R,PATCH,UB,PAIR=PGC5715,R=P

PGC 5715 Tri Galaxy S?  
 Oct 20 2006 31" 17mmT4 VF,PS,OVAL,PATCH,UB,NND,PAIR=PGC5714,R=P

## ARP 99

NGC 7547 Peg Galaxy (R')SAB(s)0/a VF,S,IR  
 Sep 27 2005 31" 17mmT4 PB,PL,ELONG,SMALL BNUC,MOD HISB MIDDLE,EXCELLENT HICKSON CLUSTER,R=G

NGC 7549 Peg Galaxy SB(s)cd pec PF,PS,R,\*10,11P  
 Oct 30 2005 31" 17mmT4 DIF,VF,PS,PATCH,UB,NND,OTHERS PRESENT,VERIFY FOV AGAIN,R=P  
 Sep 27 2005 31" 17mmT4 VB,VL,OVAL,PATCH,UB,NND,MOD HISB,EXCELLENT HICKSON CLUSTER,R=E

NGC 7550 Peg H181-3 Galaxy SA0- CF,S,R  
 Sep 27 2005 31" 17mmT4 VB,VL,OVAL,LARGE BNUC,GMBM,HISB,EXCELLENT HICKSON CLUSTER,R=E

## ARP 101

PGC 56938 Ser Galaxy S0-:  
 Apr 26 2006 31" 17mmT4 PF,PS,ELONG,LARGE FNUC,PAIRS=PGC/MAC,R=F

PGC 56953 Ser Galaxy S0 pec  
 Apr 26 2006 31" 17mmT4 PF,PS,OVAL,PATCH,SMALL FNUC,PAIRS=PGC/MAC,R=F

## ARP 102

PGC 60067 Her Galaxy E0  
 Mar 26 2006 31" 17mmT4 MF,PS,R,SMALL FNUC,PAIRS=PGC'S,R=F

PGC 60070 Her Galaxy SABb pec  
 Mar 26 2006 31" 17mmT4 MF,ML,OVAL,PATCH,UB,ELONG LIKE NUC,PAIRS=PGC'S,R=F

PGC 60073 Her Galaxy I  
 Mar 26 2006 31" 17mmT4 VDIF,EF,ES,SUSP,STELLAR LIKE,PAIRS=PGC'S,R=P

## ARP 103

PGC 59061 Her Galaxy Sa  
 Apr 26 2006 31" 17mmT4 PF,PS,R,LARGE FNUC,VERY CLOSE COMP OFF EDGE,COMP=PGC59062,PAIR=PGC'S,R=F

PGC 59062 Her Galaxy S0 pec:  
 Apr 26 2006 31" 17mmT4 VF,ES,PATCH,ALMOST STELLAR,JUST BARELY TOUCHING PGC59061/PAIRS=PGC'S,R=P

PGC 59065 Her Galaxy SAB(rs)0+ pec  
 Apr 26 2006 31" 17mmT4 PF,PS,VERY SMALL FNUC,F\* CLOSE BY,PAIRS=PGC'S,R=F

## ARP 104

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

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

## ARP 106

NGC 4211 Com Galaxy S0/a pec VF,ES,MBM  
 Apr 07 2008 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,CLOSE COMP=4211A,R=F

NGC 4211A Com Galaxy S0/a pec  
 Apr 07 2008 31" 17mmT4 PF,PS,ELONG,UB,NND,CLOSE COMP=4211,R=F

## ARP 107

PGC 32620 LMi Galaxy Double System  
 Apr 09 2008 31" 17mmT4 VF,PS,PATCH,UB,NND,COMP=PGC32638,DID NOT DETECT AT FIRST,R=P

PGC 32628 LMi Galaxy S  
 Apr 09 2008 31" 17mmT4 PS,VS,ELONG,SMALL FNUC,COMP=PGC32620,R=F

## 109

# ARP Peculiar Galaxies Observations

## ARP 109

PGC 56057 Dra Galaxy S?  
Apr 26 2006 31" 17mmT4 MF,PS,PATCH,NND,PAIRS=PGC'S,R=F

PGC 56063 Dra Galaxy E  
Apr 26 2006 31" 17mmT4 MF,MS,R,SMALL FNUC,PAIRS=PGC'S,R=F

## ARP 110

PGC 69956 Aqr Galaxy Sbc  
Sep 12 2007 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,PAIRS=PGC/MAC,R=F

## ARP 111

NGC 5421 CVn Galaxy SB? F,IRRR,2VF\*INV  
Mar 17 2007 31" 17mmT4 MF,MS,ELONG,SHISB,F\* OFF ONE SIDE,BROKEN IN 2 HALVES,VS PATCH ON EDGE,PAIR,R=F

PGC 49949 CVn Galaxy SB  
Mar 17 2007 31" 17mmT4 EF,ES,LOC GOOD,SUSP,PAIR=5421,R=P

## ARP 112

NGC 7805 Peg H855-3 Galaxy SAB0<sup>^</sup>: pec EF,S,R,SBM,SP OF 2  
Oct 06 2004 31" 17mmT4 PB,MS,R,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,PAIRS=7806,PGC111,MAC,R=G

NGC 7806 Peg H856-3 Galaxy SA(rs)bc? pec EF,S,R,NF OF 2,STELL  
Oct 06 2004 31" 17mmT4 PB,MS,R,SMALL BNUC,SHISB,HISB MIDDLE,GMBM,PAIRS=7805,PGC111,MAC,R=G

PGC 111 Peg Galaxy S  
Oct 06 2004 31" 17mmT4 EF,VS,PATCH,AV FIRST THEN HOLDS,PAIRS=7805,7806,MAC,R=P

## ARP 113

NGC 68 And H16-5 Galaxy SA0- EF,L,3OR4\*+NEB  
Nov 20 2003 31" 17mmT4 MB,PS,R,LARGE BNUC,SBM,SHISB MIDDLE,NGC 70 CLUSTER OF 12,R=G  
Oct 05 2002 12.5" 9mmT6 DIF,PF,PS,R,BM,MOD HISB,GALAXY CLUSTER

NGC 69 And Galaxy SB(s)0- EF,VS,R,  
Nov 20 2003 31" 17mmT4 PF,PS,R,LARGE BNUC,SBM,NGC 70 CLUSTER OF 12,R=F  
Oct 05 2002 12.5" 9mmT6 EEDIF,EEF,ES,PATCH,AVERTED VISION,GALAXY CLUSTER

NGC 70 And Galaxy SA(rs)c EF,VS,R,BET2F\*  
Nov 20 2003 31" 17mmT4 MB,PL,OVAL,LARGE BNUC,HISB MIDDLE,NGC 70 CLUSTER OF 12,R=G  
Oct 05 2002 12.5" 9mmT6 PF,PS,R,BM,F\* OFF TO ONE SIDE,GALAXY CLUSTER

NGC 71 And Galaxy SA0- pec: EF,VS,R  
Nov 20 2003 31" 17mmT4 MB,MS,OVAL,BNUC,SBM,HISB MIDDLE,NGC 70 CLUSTER OF 12,R=G  
Oct 05 2002 12.5" 9mmT6 DIF,PF,PS,R,MOD HISB

NGC 72 And Galaxy SB(rs)ab EF,VS,R  
Nov 20 2003 31" 17mmT4 MB,MS,OVAL,BNUC,SBM,MOD HISB,NGC 70 CLUSTER OF 12,R=G  
Oct 05 2002 12.5" 9mmT6 VDIF,VF,VS,OVAL PATCH,GALAXY CLUSTER

## ARP 114

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<sup>^</sup> PB,PL,LE,BM  
Sep 06 2002 12.5" 9mmT6 VB,PL,R,MOD HISB,BM,PAIR/2276/IC455

## ARP 115

PGC 36379 Leo Galaxy  
Mar 29 2006 31" 17mmT4 MF,MS,SMALL FNUC,F\* ON EDGE,PAIR=PGC36392,R=F

PGC 36392 Leo Galaxy Sb  
Mar 29 2006 31" 17mmT4 VF,PS,UB,PATCH,NND,PAIR=PGC36379,R=P  
Mar 29 2006 31" 17mmT4 VF,PS,UB,PATCH,NND,PAIR=PGC36379,R=P

## 116

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## ARP 116

NGC 4647	Vir	H44-3	Galaxy SAB(rs)c	PF,PL,LE115,NPOFDNEB
Mar 22 2004	12.5"	12mmT4	MF,ML,OVAL,PATCH,UB,CLOSE PAIR=M60,VERY SMALL FNUC,R=F	
Mar 27 1982	12.5"	12mm		
Mar 27 1981	12.5"	24mm		
NGC 4649	Vir	M60	Galaxy E2	VB,PL,R,FOF DNEB
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1982	12.5"	12mm	MF,PS,ELONG,BNUC,LOC IN BARREN * FIELD,PAIR/4638	
Jun 04 1981	12.5"	24mm	PB,PL,BNUC,BRT HALO,PAIR/4638	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980	6"	24mm		

## ARP 117

IC 982	Boo		Galaxy SA0+	
Mar 26 2006	31"	17mmT4	MB,ML,OVAL,LARGE BNUC,BM,MOD HISB MIDDLE,OTHER PAIRS/IC983,R=G	
IC 983	Boo		Galaxy SB(r)bc	
Mar 26 2006	31"	17mmT4	MB,PL,ELONG,OVAL,LBNUC,ELONG NUC,FARMS SUSP,BM,MOD HISB MIDDLE,OTHER PAIRS,R=G	

## ARP 118

NGC 1143	Cet		Galaxy Ring A	EF,S,R,P OF 2
Sep 12 2007	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,SHISB,CLOSE COMP=1144,PAIR=MAC,R=G	
NGC 1144	Cet		Galaxy Ring B	EF,S,R,F OF 2
Sep 12 2007	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,SHISB,CLOSE COMP=1143,PAIR=MAC,R=G	

## ARP 120

NGC 4435	Vir	H28-1	Galaxy SB(s)0^	VB,CL,R,NP OF 2
May 01 1981	12.5"	24mm	PB,PS,BNUC	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 4438	Vir	H28-1	Galaxy SA(s)0/a pec:	B,CL,VLE,R,SF OF 2
May 01 1981	12.5"	24mm	DIF,PB,PL,BNUC,DARM	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		

## ARP 122

NGC 6039	Her		Galaxy SA0+ pec	EEF,VS,R,SP OF 3LINE
Mar 29 2006	31"	17mmT4	MF,VS,R,UB,NND,COMP=6040A,AGC 2151,R=F	
Feb 27 1982	12.5"	16mm	EDIF,VF,VS,4F*S TOGETHER TO S,NND,CLOSE COMP/6040A	
NGC 6040	Her		Galaxy SAB(s)c	VF,ES,F*CLOSE
Mar 29 2006	31"	17mmT4	MF,MS,ELONG,EDGE ON,UB,NND,COMP=6040B,AGC 2151,R=F	
Feb 27 1982	12.5"	16mm	EDIF,VF,VS,SIMILAR TO 6039,NND,CLOSE COMP 6040B	

## ARP 123

NGC 1888	Lep	H289-2	Galaxy SB(s)c pec	PB,PL,R,R
Nov 21 2006	12.5"	12mmT4	MF,ML,ELONG,UB,NND,INTERACTING=1889,R=F	
NGC 1889	Lep		Galaxy E+ pec:	CLOSE D W/1888
Nov 21 2006	12.5"	12mmT4	VF,VS,APPEARS AS A BUMP ALONG THE NUCLEUS OF 1888,R=P	

## ARP 124

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	
PGC 60040	Dra		Galaxy C	
Apr 26 2006	31"	17mmT4	PF,VS,R,PATCH,UB,NND,VF* OFF ONE SIDE,PAIR=6361,R=F	

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## ARP 125

PGC 58664 Her Galaxy Double System  
Apr 26 2006 31" 17mmT4 MF,PS,EDGE ON WITH A SLIGHT BEND,UB,NND,PAIR=PGC58674,R=F

PGC 58674 Her Galaxy Ring A  
Apr 26 2006 31" 17mmT4 PF,VS,R,UB,NND,PAIR=PGC58664/PGC59061,R=F

## ARP 129

PGC 27546 Leo Galaxy SB(r)c: pec  
Mar 10 2007 31" 17mmT4 MF,MS,OVAL,SMALL BNUC,VERY CLOSE COMP=PGC27547,CANNOT SEPERATE,OTHERS,R=F  
Feb 25 2004 31" 17mmT4 MF,VS,VERY SMALL BNUC,SHISB,STELL NUC,PAIR=2944,R=F

PGC 27547 Leo Galaxy SAB0<sup>+</sup>: pec  
Mar 10 2007 31" 17mmT4 MF,MS,OVAL,BNUC,B\* ON TOP OF GAL,INTERACTING=PGC27546,CANNOT SEPERATE,R=F

## ARP 130

PGC 177 Peg Galaxy S  
Oct 06 2004 31" 17mmT4 MF,MS,SMALL FNUC,PAIRS=PGC178,IC5379,R=F

PGC 178 Peg Galaxy SB  
Oct 06 2004 31" 17mmT4 EDIF,EF,MS,PAIRS=PGC177,IC5379,SUSP,LOC GOOD,R=P

## ARP 132

PGC 34639 Leo Galaxy  
Mar 17 2007 31" 17mmT4 MF,PS,OVAL,PATCH,SMALL FNUC,PAIRS=PGC/MAC'S,R=F

PGC 34651 Leo Galaxy E pec:  
Mar 17 2007 31" 17mmT4 MF,PS,OVAL,PATCH,\*NUC,\* IN OR AROUND NUC,PAIRS=PGC/MAC'S,R=F

## ARP 134

NGC 4472 Vir M49 Galaxy E2 VB,L,R,MBM,R  
Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
May 01 1981 12.5" 24mm EB,EL,BNUC,BARM,F\* 12 MAG TO S,3F\*S TO E  
Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
Jun 10 1980 6" 24mm

## ARP 135

NGC 1023 Per H156-1 Galaxy SB(rs)0- VB,VL,VME,VVMBM  
Feb 04 2005 31" 17mmT4 VF,EL,ELONG,LARGE BNUC,FARMS,GMBM,SEVERAL \*S IN GAL,COMP=1023A,R=E  
Aug 17 1982 12.5" 16mm EDGE ON,MF,ML,LINE OF 3 \*S OFF TO E,VMBM,DIF ARMS  
Oct 03 1981 12.5" 12mm MB,ML,ELONG,F\* OR PART OF GAL W SIDE,LOOKS LIKE SB GAL,VMBM,BRT NUC DET  
Sep 07 1980 12.5" 24mm  
Sep 03 1980 12.5" 24mm  
Aug 22 1980 12.5" 24mm  
Aug 19 1980 12.5" 24mm  
Jul 24 1980 12.5" 24mm BNUC,GREAT!!!  
Jul 11 1980 12.5" 24mm  
Jun 20 1980 12.5" 24mm GOOD LOOKING GAL

## ARP 136

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 \*

## ARP 137

NGC 2914 Leo H513-3 Galaxy SB(s)ab VF,S,R,BMN,F OF 2  
Jan 20 2004 31" 17mmT4 MB,ML,R,LARGE BNUC,SHISB,GBM,PAIRS=2911,PGC27175,R=G

## ARP 140

NGC 274 Cet H429-3 Galaxy SAB(r)0- pec PB,PS,SMBM,NP OF2

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## ARP 140

NGC 274 Cet H429-3 Galaxy SAB(r)0- pec PB,PS,SMBM,NP OF2  
 Oct 13 2007 31" 17mmT4 VB,PL,R,LARGE BNUC,HISB,HALO AROUND NUC,PAIR=275,GMBM,R=G  
 Sep 24 1981 12.5" 16mm PF,VS,INTERACTING W/ 275,NUC BRTER THAN 275,CAN JUST BARELY SPLIT THE TWO

NGC 275 Cet Galaxy SB(rs)cd pec VF,S,R,SF OF 2  
 Oct 13 2007 31" 17mmT4 PB,VL,PATCH,UB,NND,MOD HISB,PAIR=274,R=G  
 Sep 24 1981 12.5" 16mm INTERACTING W/ 274,DIF,VF,VS,NND,SLIGHTLY FAINTER THAN 274

## ARP 141

PGC 20460 Cam Galaxy Ring  
 Dec 19 2006 31" 17mmT4 MB,MS,ELONG,LARGE BNUC,BM,FAINT HALO OFF ONE SIDE OF NUC,R=F

## ARP 142

MAC 0937+ Hya Galaxy  
 Mar 29 2006 31" 17mmT4 EF,ES,AV,SUSP,\* IN EDGE,PAIRS=2936/2937,R=P

NGC 2936 Hya Galaxy I? VF,IR  
 Mar 29 2006 31" 17mmT4 PF,MS,OVAL,PATCH,LARGE FNUC,COMP=2937,PAIR=MAC,R=G

NGC 2937 Hya Galaxy E F,S,LIKE A NEB\*  
 Mar 29 2006 31" 17mmT4 MF,PS,SMALL BNUC,HISB MIDDLE,BM,COMP=2936,PAIR=MAC,R=F

## ARP 143

NGC 2444 Lyn Galaxy Ring A VF,MBM  
 Dec 07 2005 31" 17mmT4 PB,ML,OVAL,LARGE BNUC,VERY CLOSE PAIR,MOD HISB MIDDLE,PAIR=2445,R=G

NGC 2445 Lyn Galaxy Ring B VF,MBM,S\*ATT S  
 Dec 07 2005 31" 17mmT4 MF,MS,PATCH,SNUC,VERY CLOSE PAIR,PAIR=2444,V\* CLOSE TO EDGE,R=F

## ARP 145

PGC 9060 And Galaxy Ring A  
 Oct 25 2006 31" 17mmT4 PF,MS,R,LARGE BNUC,HISB MIDDLE,VF\* OFF ONE SIDE,2F\*S OTHER SIDE,PAIR=P9062,R=G

PGC 9062 And Galaxy Pec  
 Oct 25 2006 31" 17mmT4 VF,VS,SMALL PATCH,UB,NND,MOVE B\* OUT OF FOV,F\* GLOW AREOUND 2F\*S,TRI \*S,R=P

## ARP 148

MAC 1103+ UMa Galaxy  
 Apr 07 2008 31" 17mmT4 COMP=PGC33423,EF,ES,CAN JUST BARELY DETECT WITH AV,PATCH,NND,R=P

PGC 33423 UMa Galaxy Ring  
 Apr 07 2008 31" 17mmT4 PF,PS,ELONG,EDGE ON,BRIGHTER ALONG AXIS,BM,PAIR=MAC,R=F

## ARP 150

MAC 2319+ Peg Galaxy  
 Sep 27 2005 31" 17mmT4 VF,VS,PATCH,UB,NND,VERY CLOSE COMP,PAIR=7609/PGC'S,R=P

NGC 7609 Peg Galaxy Pec VF,VS,GBM  
 Sep 27 2005 31" 17mmT4 PF,PS,OVAL,UB,NND,VERY CLOSE COMP,PAIR=MAC,PGC'S,SOMEWHAT HISB,R=F

PGC 71074 Peg Galaxy S  
 Sep 27 2005 31" 17mmT4 EF,VS,PATCH,UB,NND,AV,PAIR=7609/MAC/PGC,R=P

PGC 71080 Peg Galaxy S?  
 Sep 27 2005 31" 17mmT4 VF,VS,ELONG,PATCH,UB,NND,VERY F\* ON SIDE,PAIR=7609/MAC/PGC,R=P

## ARP 151

PGC 35129 UMa Galaxy S0 pec  
 Apr 07 2008 31" 17mmT4 VF,VS,OVAL,VERY SMALL FNUC,PAIR=MAC,R=P

## ARP 152

NGC 4486 Vir M87 Galaxy E+0-1 pec VB,VL,R,MBM,3RD OF 3  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 May 01 1981 12.5" 24mm EB,EL,BNUC,1 OF 3 COMP

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## ARP 152

NGC 4486 Vir M87 Galaxy E+0-1 pec VB,VL,R,MBM,3RD OF 3  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Jun 10 1980 6" 24mm

## ARP 155

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  
 PGC 34985 UMa Galaxy  
 Apr 03 2005 31" 17mmT4 VF,VS,UB,NND,CLOSE COMP=3656,MAKES 3656 LOOK ELONG,R=P

## ARP 156

PGC 31916 Dra Galaxy Pec  
 Apr 09 2008 31" 17mmT4 MF,MS,OVAL,PATCH,UB,NND,SOMEWHAT HISB,R=F

## ARP 157

NGC 520 Psc H253-3 Galaxy Pec F,CL,E137  
 Sep 24 1981 12.5" 16mm DIF,MF,ML,ELONG,NNS,UB,PATCHY AND KNTY STR SUSP,BRIGHTER IN 24MM  
 Oct 31 1980 12.5" 24mm  
 Oct 29 1980 8" 24mm  
 Sep 07 1980 12.5" 24mm EF,AVERTED VISION

## ARP 158

NGC 523 And H170-3 Galaxy Pec DNEB,VF,VS,DIST30"  
 Aug 10 2002 12.5" 9mmT6 DIF,MF,PL,ELONG,SBM,MOD HISB

## ARP 160

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

## ARP 161

PGC 36325 Vir Galaxy Pec  
 May 18 2007 31" 17mmT4 VF,PS,OVAL,\*NUC,B\* OR BRT NUC,R=P

## ARP 162

NGC 3414 LMi H362-2 Galaxy S0 pec B,PL,R,MBM  
 Feb 15 2004 31" 17mmT4 VB,VL,ELONG,LARGE BNUC,HISB,PAIRS=3418/MAC,R=E  
 Oct 22 1982 12.5" 16mm MF,MS,BNUC,R,SMBM,SMALL STELL BNUC  
 Dec 03 1980 12.5" 24mm

## ARP 165

NGC 2418 Gem Galaxy E VF,ES,BM  
 Dec 06 2002 12.5" 9mmT6 PB,ML,BNUC,MBM,OVAL-ROUND,MOD HISB

## ARP 166

NGC 750 Tri H222-2 Galaxy E pec CB,PL,R,DW/751,25"  
 Dec 04 2004 31" 17mmT4 PB,ML,R,BNUC,HISB,COMP OR INTERACTING WITH 751,R=G  
 Aug 25 1982 12.5" 16mm PAIR/736  
 Sep 23 1981 12.5" 16mm DIF,PF,PS,ELONG,SIM TO 670,FNUC SUSP,NO \*S  
 Oct 31 1980 12.5" 24mm PAIR/777  
 Sep 18 1980 12.5" 24mm  
 NGC 751 Tri Galaxy E pec PF,ES,R,BM,DW/750  
 Dec 04 2004 31" 17mmT4 PB,ML,R,BNUC,HISB,GMBM,COMP OR INTERACTING WITH 750,R=G

## ARP 167

NGC 2672 Cnc H48-2 Galaxy E1-2 PB,PL,IR,MBM  
 Mar 26 2006 31" 17mmT4 VB,VL,R,LBNUC,F\* OFF EDGE,CLOSE COMP=2673,MOD HISB ARMS,BM,HISB MID,MINI M51,R=E  
 Feb 21 1984 12.5" 12mm SAME,ANOTHER VF\* TO E 1 GAL DIA,SBM,DIF,MF,PS,ELONG,SN?

# ARP Peculiar Galaxies Observations

## ARP 167

NGC 2672	Cnc		H48-2	Galaxy E1-2	PB,PL,IR,MBM
Oct 24 1981	12.5"	16mm	EDIF,PF,VS,F*N 1	GAL DIA,SOMEWHAT BM	
Dec 03 1980	12.5"	24mm			
NGC 2673	Cnc			Galaxy E0 pec	VF,VS,CLOSE F2672
Mar 26 2006	31"	17mmT4	MF,MS,SBNUC,CLOSE COMP=2672,MINI M51,R=G		

## ARP 168

NGC 221	And	M32		Galaxy cE2	VVB,L,R,PSMBMN
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Aug 31 1984	12.5"	12mm	VB,MS,F * NE SEVERAL GAL DIA,VMBM,OVAL,HISB,HALO		
Mar 02 1984	10"	20mm	SAME		
Sep 23 1981	12.5"	16mm	VMBM,HALO,BNUC,VR,ML,VB		
Sep 20 1981	12.5"	24mm			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5"	24mm			
Aug 22 1980	12.5"	24mm			
Aug 19 1980	12.5"	24mm			
Jul 24 1980	12.5"	32mm	BEST OBSERVED TO DATE		
Jul 17 1980	12.5"	24mm			
Jul 14 1980	12.5"	24mm			
Jul 11 1980	12.5"	24mm			
Jun 17 1980	12.5"	24mm			

## ARP 169

NGC 7236	Peg			Galaxy SA0-	VF,S,STELLAR
Aug 25 1982	12.5"	16mm	EDIF,EF,ES,INSIDE SMALL TRI OF *S,COMP 7237,SEEN WITH AVERTED VISION		
NGC 7237	Peg			Galaxy SA0-	VF,S,STELLAR
Sep 18 1982	12.5"	16mm	EDIF,EF,ES,COMP 7236,AVERTED VISION,PATCH		

## ARP 170

NGC 7578A	Peg			Galaxy S0^ pec	VF,AM VS ST
Sep 27 2005	31"	17mmT4	MB,PS,ELONG,LARGE FNUC,CLOSE COMP=7578B,R=F		
NGC 7578B	Peg			Galaxy E1:	
Sep 27 2005	31"	17mmT4	PF,PS,UB,SHISB,F* ON EDGE,CLOSE COMP=7578A/PGC,R=F		

## ARP 171

IC 1042	Vir			Galaxy S0?	
May 18 2007	31"	17mmT4	MF,ML,OVAL,PATCH,UB,NND,PAIR=5718,R=F		
NGC 5718	Vir		H550-3	Galaxy S0-:	VF,S,R,VGLBM,*8,9NF
May 18 2007	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,PAIR=IC1042,R=G		

## ARP 172

IC 1178	Her			Galaxy S0- pec?	
Mar 29 2006	31"	17mmT4	MF,MS,ELONG,OVAL,LARGE FNUC,INTERACTING=IC1181,AGC 2151,R=F		

## ARP 173

PGC 53053	Boo			Galaxy S0	
Mar 29 2006	31"	17mmT4	MF,PS,ELONG,LARGE FNUC,PAIRS=PGC'S,R=F		
PGC 53054	Boo			Galaxy Sab	
Mar 29 2006	31"	17mmT4	VF,VS,OVAL,SFNUC,PAIRS=PGC'S,R=P		

## ARP 174

MAC 0958+	Leo			Galaxy	
Mar 28 2007	31"	17mmT4	MF,PS,R,*NUC,VERY CLOSE COMP=3068,R=F		

# ARP Peculiar Galaxies Observations

## ARP 174

MAC 0958+	Leo		Galaxy	
Mar 28 2007	31"	17mmT4	PF,PS,PATCH,UB,VERY SMALL FNUC,PAIRS=3608/MAC,R=F	
NGC 3068	Leo		H293-3 Galaxy S0-: pec	EEF,ES,STELLAR,( )
Mar 20 2007	31"	17mmT4	MB,MS,R,LARGE BNUC,VERY CLOSE COMP=MAC,SOMEWHAT HISB MIDDLE,R=F	

## ARP 175

IC 3481	Vir		Galaxy SAB0-: pec	
May 18 2007	31"	17mmT4	MF,MS,OVAL,R,LARGE BNUC,MBM,PAIR=IC3481A,R=F	
IC 3481A	Vir		Galaxy E pec:	
May 18 2007	31"	17mmT4	VF,VS,PATCH,UB,NND,PAIR=IC3481,R=P	
IC 3483	Vir		Galaxy SAB(s)b pec:	
May 18 2007	31"	17mmT4	PF,MS,PATCH,UB,NND,CLOSE TO B*,R=F	

## ARP 176

NGC 4933A	Vir		Galaxy S0/a pec	
May 18 2007	31"	17mmT4	PB,PL,EL,LBNUC,FARMS,PATCHY AREAS,TOUCHING,HISB MIDDLE,CLOSE COMP=4933B,R=G	
NGC 4933B	Vir		Galaxy E pec	
May 18 2007	31"	17mmT4	MB,ML,EL,LBNUC,PATCHY AREAS,ARMS,TOUCHING,HISB MIDDLE,CLOSE COMP=4933A,R=G	
NGC 4933C	Vir		Galaxy Sd	
May 18 2007	31"	17mmT4	NO FIND,LOC GOOD,PAIRS=4933A&B	

## ARP 177

PGC 53371	Boo		Galaxy S	
Mar 29 2006	31"	17mmT4	EF,ES,PATCH,CLOSE COMP=PGC53372,PAIR=MAC,SUSP,R=P	
PGC 53372	Boo		Galaxy S	
Mar 29 2006	31"	17mmT4	VF,PS,OVAL,PATCH,VSFNUC,CLOSE COMP=PGC53371,PAIR=MAC,VF* OFF EDGE,R=P	

## ARP 178

NGC 5613	Boo		Galaxy (R)SAB(r)0+	EF,PS,DIF,2'N OF5614
Mar 29 2006	31"	17mmT4	MF,PS,OVAL,SMALL FNUC,PAIRS=5609/5615/5614,R=F	
NGC 5614	Boo		H420-2 Galaxy SA(r)ab pec	PB,S,R,SMBM
Mar 29 2006	31"	17mmT4	PB,PL,R,LARGE BNUC,HISB MIDDLE,COMP=5615/PAIRS=5613/5609,R=G	
May 06 1981	12.5"	24mm	MF,PS,DIM HALO	
NGC 5615	Boo		Galaxy	CLOSE N OF5614,(VF*)
Mar 29 2006	31"	17mmT4	VF,VS,ELONG,PATCH,UB,NND,COMP=5614,APP AS BUMP ALONG SIDE 5614,PAIRS=5613/5809,F	

## ARP 181

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 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	

## ARP 182

NGC 7674	Peg		Galaxy SA(r)bc pec	F,CS,GBM,P OF 2
Sep 27 2005	31"	17mmT4	MB,ML,R,SMALL BNUC,VERY CLOSE COMP,MOD HISB MIDDLE,SUDDENLY MBM,R=G	
NGC 7675	Peg		Galaxy SAB(s)0-:	VF,S,R,GBM,F OF 2
Sep 27 2005	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,SOMEWHAT HISB MIDDLE,PAIR=PGC'S/7674,R=G	
PGC 71505	Peg		Galaxy S?	
Sep 27 2005	31"	17mmT4	PF,PS,OVAL,VERY SMALL FNUC,VERY CLOSE COMP=7674,PAIR=PGC/7675,R=F	
PGC 71507	Peg		Galaxy S	
Sep 27 2005	31"	17mmT4	EF,ES,PATCH,UB,AV,PAIR=7675/PGC,R=P	

## ARP 183

PGC 47867	CVn		Galaxy Sb	
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# ARP Peculiar Galaxies Observations

## ARP 183

PGC 47867 CVn Galaxy Sb  
 Mar 17 2007 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,R=F

## ARP 184

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

## ARP 185

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

## ARP 188

PGC 57129 Dra Galaxy SB(s)c pec  
 Apr 26 2006 31" 17mmT4 MB,VL,ELONG,EDGE ON,PATCH,NND,LARGE PATCHY NUC AREA,BROKEN PARTS,PAIRS=PGC'S,R=F

## ARP 190

PGC 10755 Ari Galaxy S  
 Sep 25 2003 31" 17mmT4 V DIF,VF,MS,PATCH,UB,NND,PAIR=10757,R=P  
 PGC 10757 Ari Galaxy compact  
 Sep 25 2003 31" 17mmT4 PF,PS,SMALL FNUC,PAIR=10755,R=F

## ARP 191

PGC 33670 Leo Galaxy SAB0- pec  
 Mar 17 2007 31" 17mmT4 MF,MS,R,VERY SMALL BNUC,CAN JUST SPLIT THE TWO,PAIR=PGC33677,R=F  
 PGC 33677 Leo Galaxy SAB(r)0+ pec  
 Mar 17 2007 31" 17mmT4 PF,PS,R,SMALL FNUC,CAN JUST SPLIT THE TWO,PAIR=PGC33670,R=F

## ARP 192

NGC 3303 Leo H66-3 Galaxy Pec VF,VS,VLE,GLBM,R  
 Mar 26 2006 31" 17mmT4 PB,PL,PATCH,LBNUC,MHISB,PATCHY,BRT H2 AREAS,ARM STRUCTURE,PAIR=PGC31558,R=G

## ARP 193

IC 883 CVn Galaxy Im: pec  
 Mar 17 2007 31" 17mmT4 MF,MS,ELONG,UB,NND,R=G

## ARP 194

MAC 1157+ UMa Galaxy  
 Apr 09 2008 31" 17mmT4 EF,VS,UB,INTERACT=PGC37639,CAN JUST BARELY SPERATE,R=P  
 Apr 09 2008 31" 17mmT4 VF,VS,OVAL,UB,NNC,COMP=PGC37639,R=P  
 PGC 37639 UMa Galaxy S?  
 Apr 09 2008 31" 17mmT4 VF,MS,PATCH,UB,NND,INTERACT=MAC,CAN JUST BARELY SEPERATE,R=F  
 Apr 09 2008 31" 17mmT4 PF,MS,PATCH,UB,NND,PAIRS=PGC/MAC'S,COMP=MAC,R=F

## ARP 195

PGC 24981 Lyn Galaxy SB(s)b  
 Mar 20 2007 31" 17mmT4 PF,MS,OVAL,UB,NND,INTERACTING=MAC,CAN JUST BARELY SEPERATE TWO,R=F

## ARP 197

IC 701 Leo Galaxy SB(rs)dm pec  
 Mar 17 2007 31" 17mmT4 MB,ML,OVAL,LARGE FNUC,SHISB,PAIRS=PGC'S/MAC,R=G

## ARP 198

PGC 33116 Leo Galaxy Double System  
 Mar 26 2006 31" 17mmT4 EF,MS,AV,SUSP,VERY FT GLOW DET AROUND B\* IN COMP,PAIR=MAC,R=P

# ARP Peculiar Galaxies Observations

## ARP 199

NGC 5544	Boo	H419-2	Galaxy (R)SB(rs)0/a	F,PS,E80,DW/45 ORBIN
Mar 29 2006	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,VF* IN GAL,INTERACTING=5545,R=G	
NGC 5545	Boo		Galaxy SA(s)bc:	E,LBM,DW/44 OR BIN
Mar 29 2006	31"	17mmT4	MF,MS,EDGE ON,UB,NND,SHISB,INTERACTING=5544,R=G	

## ARP 200

NGC 1134	Ari	H254-2	Galaxy S?	F,S,IR,R
Sep 25 2003	31"	17mmT4	VB,VL,ELONG,VERY LARGE BNUC,GMBM,SHISB,PAIRS/10907/IC267,R=G	
Oct 23 1982	12.5"	16mm	MV,MS,F*E EDGE,HISB,OVAL	

## ARP 202

NGC 2719	Lyn	H540-3	Galaxy Im pec?	VF,S,E110,2VF* INV
Nov 24 2003	31"	17mmT4	MF,MS,EDGE ON,PATCH,UB,NND,SHISB,SLIGHTLY CENTRAL BULGE,COMP=2719A,R=G	
NGC 2719A	Lyn		Galaxy Im pec:	
Nov 24 2003	31"	17mmT4	MF,PS,OVAL,UB,SHISB,COMP=2719,R=G	

## ARP 203

NGC 3712	UMa		Galaxy SB?	F,VS,R,SMBM
Apr 07 2008	31"	17mmT4	EF,MS,ELONG,PATCH,UB,NND,AV BARELY HOLDS,R=P	

## ARP 204

PGC 46729	Cam		Galaxy Double System	
Apr 06 2008	31"	17mmT4	EFID,EF,MS,ELONG,PATCH,UB,NND,PAIR=PGC46811,COMES AND GOES WITH AV,R=P	
PGC 46811	Cam		Galaxy S	
Apr 06 2008	31"	17mmT4	VDIF,VF,PS,PATCH,UB,NND,PAIR=PGC46729,R=P	

## ARP 205

NGC 3448	UMa	H233-1	Galaxy IO	B,PL,ME67,GBM
Apr 07 2008	31"	17mmT4	VF,VL,ELONG,LARGE BNUC,HISB,GOOD DEF,DUST AREA DET,CENTRAL BULGE,BROKEN,R=E	
Mar 15 1985	12.5"	16mm	DIF,VF,MS,EDGE ON,UB,SLIGHTLY ELONG,NND,BETWEEN A TRI OF VERY F*S	
PGC 32740	UMa		Galaxy Im	
Apr 07 2008	31"	17mmT4	EEF,VS,JUST OFF TIP OF 3448,AT ZENITH,LOC GOOD, NO AV HOLD,SUSP,R=P	

## ARP 206

NGC 3432	LMi	H172-1	Galaxy SB(s)m sp	PB,PL,VME40,**NR SP
Apr 09 2008	31"	17mmT4	VB,VL,EDGE ON,UB,NND,HISB,2F*S A TIP,2F*S BOTH SIDES,SLIGHTLY BOWED,OTHERS,R=E	
Oct 22 1982	12.5"	12mm	SAME,2*S AT S TIP	
Oct 22 1982	12.5"	16mm	DIF,MF,MS,ELONG,UB,2*S AT BOTH ENDS	
Dec 03 1980	12.5"	24mm		
PGC 32617	LMi		Galaxy Dwarf	
Apr 09 2008	31"	17mmT4	EDIF,EF,VS,PATCH,AV,OFF TIP OF 3432,AV ONCE,DOES NOT HOLD,R=P	

## ARP 207

PGC 27026	Dra		Galaxy S?	
Apr 09 2008	31"	17mmT4	PF,PS,ELONG,VERY SMALL BNUC OR * IN NUC,R=F	

## ARP 208

PGC 59113	Her		Galaxy S	
Apr 26 2006	31"	17mmT4	PF,PS,PATCH,NND,COMP=PGC59114,CANNOT SPLIT,ODD PATCHY SHAPE,R=F	
PGC 59114	Her		Galaxy	
Apr 26 2006	31"	17mmT4	PF,PS,NND,ON TOP OF EACH OTHER,ODD PATCHY SHAPE,CANNOT SPLIT,COMP=PGC59113,R=F	

## ARP 209

MAC 1605+	Her		Galaxy	
Apr 20 2006	31"	17mmT4	MB,MS,NND,MHISB,INTERACTING=6052,ODD SHAPE,PATCHY,OVAL WITH BUMPS,LOBS,R=G	
NGC 6064	Her	H140-3	Galaxy Sc	VF,VS,PB*SF,(=6052)

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## ARP 209

NGC 6064 Her H140-3 Galaxy Sc VF,VS,PB\*SF,(=6052)  
 Apr 26 2006 31" 17mmT4 MB,MS,NND,MHISB,INTERACTING=MAC,FUNNY SHAPE,PATCHY,OVAL WITH LOBS,R=G  
 Feb 27 1982 12.5" 16mm EDIF,MF,ES,FNUC,SBM,EF\*E EDGE

## ARP 210

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

## ARP 211

PGC 42134 CVn Galaxy  
 Mar 17 2007 31" 17mmT4 VF,PS,PATCH,UB,NND,KEEP \* OUT OF FOV,BOTH APPEAR AS ONE,PAIR=PGC42135,R=P  
 PGC 42135 CVn Galaxy  
 Mar 17 2007 31" 17mmT4 VF,PS,PATCH,UB,NND,KEEP \* OUT OF FOV,BOTH APPEAR AS ONE,PAIR=PGC42134,R=P

## ARP 212

NGC 7625 Peg H250-2 Galaxy SA(rs)a pec PB,CS,R,SMBM  
 Sep 21 1984 12.5" 16mm MB,PS,MOD HISB,PATCHY,UB  
 Jul 07 1981 12.5" 16mm DIF,PF,ES,FAINT HALO,3\*S 11 MAG SURROUND GAL  
 Sep 10 1980 12.5" 24mm FAINT,W OF B\* IN FOV

## ARP 213

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

## ARP 214

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=E  
 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

## ARP 215

NGC 2782 Lyn H167-1 Galaxy SAB(rs)a pec CB,R,MBMBN  
 Oct 16 1982 12.5" 24mm DIF,MF,MS,DNUC,2F\*S OFF TO S,SBM,STELL NUC,16MM-SAME

## ARP 216

NGC 7679 Psc Galaxy SB0 pec: PB,S,R,MBMN,STELL  
 Sep 27 1981 12.5" 16mm MF,VS,BNUC,F\* NE AND W SEVERAL GAL DIA,SMBM

## ARP 217

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

## ARP 218

PGC 56314 Ser Galaxy SAB(s)bc  
 Apr 26 2006 31" 17mmT4 VDIF,VF,MS,OVAL,PATCH,UB,NND,R=P

## ARP 220

IC 4554 Ser Galaxy S?  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,PATCH,UB,NND,SOMEWHAT HISB,PAIRS=MAC'S,R=F

## ARP 221

PGC 27333 Hya Galaxy S  
 Mar 18 2007 31" 17mmT4 MB,ML,R,LARGE FNUC,MOD HISB MIDDLE,PAIRS=MAC'S,R=F

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## ARP 222

NGC 7727 Aqr H111-1 Galaxy SAB(s)a pec PB,PL,IR,MBM  
 Jul 10 1981 12.5" 16mm MB,ML,VMBM,DIF HALO AROUND GAL  
 Sep 09 1980 12.5" 24mm BNUC, SPIRAL ARM STR DET

## ARP 223

NGC 7585 Aqr H236-2 Galaxy (R')SA(s)0+ pe PB,PS,IR,GBM  
 Sep 10 1980 12.5" 24mm

## ARP 224

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

## ARP 225

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

## ARP 226

NGC 7252 Aqr H458-3 Galaxy (R)SA(r)0<sup>^</sup>: F,S,R,ER  
 Jul 10 1981 12.5" 24mm DIF,EF,VS,GBM,F\* APPEARS TO BE IN THE GAL  
 Sep 10 1980 12.5" 16mm

## ARP 227

NGC 470 Psc H250-3 Galaxy SA(rs)b PB,L,IR  
 Sep 24 1981 12.5" 16mm VDIF,MF,PS,PATCHY-OVAL,F\*\*S TO N&S ON EDGE,F\*\*S TO E,GAL TO E BY B\*,PAIR/474  
 Sep 07 1980 12.5" 24mm EF,AVERTED VISION,COMP SUSP  
 NGC 474 Psc H251-3 Galaxy SA(s)0<sup>^</sup> PB,S,SMBM,F OF 2  
 Sep 24 1981 12.5" 16mm MF,VS,DNUC,SMBM,LINE OF 3\*\*S TO E,PAIR/470 AND ANOTHER

## ARP 229

NGC 507 Psc H159-3 Galaxy SA(r)0<sup>^</sup> VF,PL,R,BM,S OF 2  
 Sep 04 2002 12.5" 9mmT6 MB,ML,R,OVAL,GBM,COMP=508  
 NGC 508 Psc H160-3 Galaxy E0: VF,S,N OF 2  
 Sep 04 2002 12.5" 9mmT6 VDIF,PF,MS,PATCH,UB,COMP=507

## ARP 230

IC 51 Cet Galaxy S0 pec?  
 Oct 13 2007 31" 17mmT4 MF,MS,OVAL,UB,NND,BRT AREA OUTER ARM (\*),R=F

## ARP 232

NGC 2911 Leo H40-2 Galaxy SA(s)0: pec F,PL,R,GBM,P OF 2  
 Jan 20 2004 31" 17mmT4 PB,PL,R,LARGE BNUC,MHISB,GMBM,PAIRS=2914,PGC27175,R=G  
 Feb 25 1984 12.5" 12mm DIF,VF,VS,FNUC,PATCHY,SBM,OVAL,COMP SUSP TO SE  
 Jan 30 1981 12.5" 24mm DIF,EF,ES,FNUC,FAINT HALO  
 Dec 03 1980 12.5" 24mm

## ARP 233

PGC 31141 UMa Galaxy Im pec:  
 Apr 07 2008 31" 17mmT4 MF,VS,R,SMALL BNUC,MB,HISB MIDDLE,R=F

## ARP 234

NGC 3738 UMa H783-2 Galaxy Im PB,PL,BM  
 Mar 15 1985 12.5" 16mm PF,PL,OVAL,MOD HISB,UB,PAIR/3756

## ARP 235

NGC 14 Peg H591-2 Galaxy (R)IB(s)m pec VF,PS,R,GLBM

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## ARP 235

NGC 14 Peg H591-2 Galaxy (R)IB(s)m pec VF,PS,R,GLBM  
 Sep 12 2002 12.5" 9mmT6 DIF,PF,PL,FACE ON,UB,NND,VF\* OFF ONE SIDE,R

## ARP 237

PGC 26831 Leo Galaxy S?  
 Mar 10 2007 31" 17mmT4 PF,MS,PATCH,KEEP B\* OUT OF FOV,PAIRS=PGC'S,R=F

PGC 26842 Leo Galaxy S?  
 Mar 10 2007 31" 17mmT4 MF,MS,OVAL,VERY SMALL FNUC,INTERACTING,CANNOT SEPERATE,KEEP B\* OUT OF FOV,R=F

PGC 26844 Leo Galaxy S?  
 Mar 10 2007 31" 17mmT4 MF,MS,OVAL,VERY SMALL FNUC,INTERACTING,CANNOT SEPERATE,KEEP B\* OUT OF FOV,R=F

## ARP 238

PGC 46114 UMa Galaxy S  
 Apr 09 2008 31" 17mmT4 VF,VS,PATCH,UB,NND,CLOSE COMP=PGC46133,R=P

PGC 46133 UMa Galaxy S?  
 Apr 09 2008 31" 17mmT4 VF,PS,OVAL,CLOSE COMP=PGC46114,VERY SMALL FNUC,R=P

## ARP 240

NGC 5257 Vir H895-2 Galaxy SAB(s)b pec VF,S,R,BM,P OF DNEB  
 May 18 2007 31" 17mmT4 VF,VL,OVAL,R,PATCH,UB,NND,HISB,BROKEN OR PATCHY OUTER EDGE,PAIR=5258,R=E

NGC 5258 Vir H896-2 Galaxy SA(s)b: pec F,S,IR,F OF DNEB  
 May 18 2007 31" 17mmT4 VF,VL,EL,EON,UB,NND,HISB,VF\* IN TIP,FWHISP OF ARMS OUTER EDGE,HOOK SHAPE,R=E

## ARP 241

PGC 52283 Boo Galaxy S?  
 Mar 26 2006 31" 17mmT4 PF,MS,OVAL,SFNUC,2NUC AREAS DET OR \* CLOSE TO NUC,VERY CLOSE COMP DET,R=F

## ARP 243

NGC 2623 Cnc Galaxy Pec VF,VS,R,BM,R  
 Mar 26 2006 31" 17mmT4 MB,ML,OVAL,VLBNUC,FAINT HALO AROUND NUC,MOD HISB MIDDLE,VERY R NUC REGION,R=E

## ARP 244

NGC 4038 Crv H28.1- Galaxy SB(s)m pec PB,CL,R,VGBM  
 Mar 22 2004 12.5" 12mmT4 MF,PL,OVAL,PATCH,UB,NND,CLOSE COMP=4039,R=G  
 May 03 1981 12.5" 24mm DIF,PB,VL,ELONG,BOTH NUC OF BOTH GAL SEEN,RING TAIL GAL,ARMS DET,PAIR/4039

NGC 4039 Crv H28.2- Galaxy SA(s)m pec PF,PL  
 Mar 22 2004 12.5" 12mmT4 MF,PL,OVAL,PATCH,UB,NND,CLOSE COMP=4038,R=G  
 May 03 1981 12.5" 24mm PAIR/4038,RING TAIL GAL

## ARP 245

NGC 2992 Hya H277-3 Galaxy Sa pec CF,S,R,BM,STEL,P OF 2  
 Mar 29 2006 31" 17mmT4 PB,PL,ELONG,LARGE SOFT NUC,SOMEWHAT HISB MIDDLE,R=G

NGC 2993 Hya H278-3 Galaxy Sa pec CF,S,R,BM,STEL,F OF 2  
 Mar 29 2006 31" 17mmT4 MB,ML,OVAL,SMALL BNUC,BM,R=G

## ARP 247

IC 2338 Cnc Galaxy SAB(s)cd pec  
 Mar 26 2006 31" 17mmT4 MB,MS,ELONG,LFNUC,SHISB,COMP=IC2339,END TO END,SMBM,NICE PAIR,R=F

IC 2339 Cnc Galaxy SAB(s)cd pec  
 Mar 26 2006 31" 17mmT4 MB,MS,ELONG,LARGE BNUC,MOD HISB,COMP=IC2338,SEVERAL F\*\*S OFF SIDE OF NUC,R=F

## ARP 248

PGC 36723 Vir Galaxy SAB(rs)b? pec  
 May 18 2007 31" 17mmT4 MF,ML,UB,NND,PAIRS=PGC36733/PGC36742,R=F

PGC 36733 Vir Galaxy SB(s)b: pec  
 May 18 2007 31" 17mmT4 MB,ML,OVAL,PATCH,UB,NND,MOD HISB,PAIRS=PGC36723/PGC36742,R=G

# ARP Peculiar Galaxies Observations

## ARP 248

PGC 36742 Vir Galaxy SB(s)c pec  
 May 18 2007 31" 17mmT4 PF,PS,PAIRS=PGC36733/PGC36723,R=P

## ARP 249

PGC 25 Peg Galaxy Double System  
 Oct 20 2006 31" 17mmT4 PF,PS,ELONG,SMALL FNUC,VF\* IN GAL,R=F

## ARP 250

PGC 21362 Lyn Galaxy  
 Mar 20 2007 31" 17mmT4 VF,MS,PATCH,VERY SFNUC,COMP=MAC,CAN SPLIT WITH AV,R=P

## ARP 252

PGC 27928 Hya Galaxy SBb pec?  
 Mar 29 2006 31" 17mmT4 EF,SUSP,PAIR=PGC27929,R=P

PGC 27929 Hya Galaxy S  
 Mar 29 2006 31" 17mmT4 EF,SUSP,PAIR=PGC27928,R=P

## ARP 254

NGC 5917 Lib Galaxy Sb pec? EF,VS,PSBM  
 Apr 26 2006 31" 17mmT4 MB,ML,OVAL,LARGE FNUC,F\* OFF ONE SIDE,MOD HISB MIDDLE,PAIRS=PGC/MAC,R=G

PGC 54817 Lib Galaxy S0 pec  
 Apr 26 2006 31" 17mmT4 MF,ML,PATCH,LARGE FNUC,PATCHY,IRR IN SHAPE,SHISB,PAIRS=5917/MAC,R=F

## ARP 255

PGC 28487 Leo Galaxy S?  
 Mar 10 2007 31" 17mmT4 PF,PS,OVAL,PATCH,UB,NND,PAIRS=PGC'S/MAC'S,R=F

## ARP 257

PGC 24889 Hya Galaxy S pec:  
 Mar 26 2006 31" 17mmT4 MF,ML,PATCH,UB,NND,PAIR=PGC24890,APPEAR AS ONE,VERY CLOSE COMP,SHISB MID,R=F

PGC 24890 Hya Galaxy I  
 Mar 26 2006 31" 17mmT4 DIF,EF,MS,PATCH,NND,PAIR=PGC24889,APPEAR AS ONE,VERY CLOSE COMP,R=F

## ARP 258

MAC 0239+ Ari Galaxy  
 Oct 25 2006 31" 17mmT4 EF,VS,PATCH,AV,COMP=MAC,R=P

MAC 0239+ Ari Galaxy  
 Oct 25 2006 31" 17mmT4 EF,VS,PATCH,SUSP,LOC GOOD,COMP=MAC,R=P

PGC 10042 Ari Galaxy S?  
 Oct 25 2006 31" 17mmT4 EF,VS,PATCH,UB,AV FIRST THEN HOLDS,R=P

PGC 10043 Ari Galaxy S?  
 Oct 25 2006 31" 17mmT4 VF,VS,PATCH,UB,AV,ALMOST STELLAR LIKE,BRTER OF THE 3 ON TOP OF EACH OTHER,R=P  
 Oct 20 2006 31" 17mmT4 VDIF,EF,VS,PATCH,UB,NND,AV,HICKSON 18C,OTHERS PRESENT,HARD TO SEPERATE,R=P

PGC 10044 Ari Galaxy IB(s)m pec  
 Oct 25 2006 31" 17mmT4 VDIF,EF,MS,PATCH,UB,NND,AV,FAINT GLOW BETWEEN 18C AND18A,NO DEF DET,R=P

PGC 10046 Ari Galaxy SB0/a: sp  
 Oct 25 2006 31" 17mmT4 PF,MS,ELONG,LARGE FNUC,BRTEST MEMBER OF HICKSON 18,R=F  
 Oct 20 2006 31" 17mmT4 MF,MS,ELONG,LARGE BNUC,BRIGHTEST MEMBER OF HICKSON 18,OTHERS PRESENT,R=F

## ARP 261

PGC 52935 Lib Galaxy IB(s)m pec  
 Apr 26 2006 31" 17mmT4 EDIF,EF,PL,PATCHY MESS WITH PGC52940,SUSP,R=P

PGC 52940 Lib Galaxy IB(s)m pec  
 Apr 26 2006 31" 17mmT4 VF,VL,OVAL,PATCHY BLUR,CLOSE COMP SUSP,PAIR=PGC52935,R=F

PGC 52943 Lib Galaxy

# ARP Peculiar Galaxies Observations

## ARP 261

PGC 52943 Lib Galaxy  
Apr 26 2006 31" 17mmT4 VF,VS,OVAL,PATCH,UB,NND,F\* IN EDGE OF GAL,R=F

## ARP 262

PGC 72977 Peg Galaxy IB(s)m  
Sep 05 2007 31" 17mmT4 VF,ML,ELONG,UB,NND,BOTH APPREA AS ONE,LONG AND NARROW,PAIR=PGC72978,R=P

PGC 72978 Peg Galaxy S  
Sep 05 2007 31" 17mmT4 VF,ML,ELONG,UB,NND,BOTH APPEAR AS ONE,LONG AND NARROW,PAIR=PGC72977,R=P

## ARP 263

NGC 3239 Leo H10-4 Galaxy IB(s)m pec VF,\*9INV NR M  
Mar 26 2006 31" 17mmT4 PB,VL,PATCH,SHISB,BRT H2 REG DET,B\* IN GAL,MOD HISB PATCHES,MANY COMP,R=G

## ARP 264

NGC 3104 LMi H48-4 Galaxy IAB(s)m EF,PL,E,VF\* INV  
Dec 26 2003 31" 17mmT4 VDIF,VF,ML,OVAL,PATCH,UB,F\* IN GAL,R=P

## ARP 265

IC 3862 CVn Galaxy Double System  
Mar 17 2007 31" 17mmT4 VF,MS,OVAL,PATCH,UB,NND,R=P

## ARP 266

NGC 4861 CVn H30-4 Galaxy SB(s)m: VF,PL,VME30,BET2ST  
Jan 28 1982 12.5" 16mm VDIF,VF,PS,EDGE ON,\*\*S BOTH N AND S ENDS,NND

## ARP 267

PGC 31477 LMi Galaxy IB(s)m:  
Mar 26 2006 31" 17mmT4 VDIF,EF,PL,PATCH,NND,AV,R=P

## ARP 269

NGC 4485 CVn H197-1 Galaxy IB(s)m pec B,PS,IR,NP OF 2  
Jan 28 1982 12.5" 16mm EDIF,PF,PS,EDGE ON,UB,INTERACTING WITH 4490  
Mar 27 1981 12.5" 24mm

NGC 4490 CVn H198-1 Galaxy SB(s)d pec VB,VL,ME130,R,SF OF 2  
Jan 28 1982 12.5" 16mm DIF,PB,PL,ELONG,BNUC,GBM,INTERACTING WITH 4485,SN DISCOVERED 8/10/82  
Mar 27 1981 12.5" 24mm  
Oct 31 1980 12.5" 24mm

## ARP 270

NGC 3395 LMi H116-1 Galaxy SAB(rs)cd pec: CB,PS,ILE,1ST OF 2  
Feb 15 2004 31" 17mmT4 VB,VL,OVAL,LARGE BNUC,HISB,GMBM,INTERACTING 3396,R=E  
Jan 08 2003 12.5" 9mmT6 MB,PL,BNUC,OVAL,SMALL BRT NUC,HISB,COMP=3396  
Oct 22 1982 12.5" 24mm DIF,VF,MS,ELONG,2 PARTS OR INTERACTING GAL,N PART STELL NUC OR \*  
Dec 03 1980 12.5" 24mm PAIR/3396  
NGC 3396 LMi H117-1 Galaxy IBm pec PB,PS,ILE,2ND OF 2  
Feb 15 2004 31" 17mmT4 VB,VL,ELONG,LARGE BNUC,HISB,GMBM,INTERACTING 3395,R=E  
Jan 08 2003 12.5" 9mmT6 MB,PL,OVAL,HISB,NND,UB,COMP=3395  
Dec 03 1980 12.5" 24mm PAIR/3395

## ARP 271

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 5426 Vir H309-2 Galaxy SA(s)c pec PF,CL,R,GMBM,SP OF 2  
Apr 26 2006 31" 17mmT4 MF,MS,ELONG,LARGE FNUC,PATCHY,IRR IN SHAPE,FAINT HALO,PAIR=5427,R=G

# ARP Peculiar Galaxies Observations

## ARP 271

NGC 5427 Vir H310-2 Galaxy SA(s)c pec PF,CL,R,NF OF 2  
 Apr 26 2006 31" 17mmT4 PB,VL,R,LFNUC,FAINT HALO,SPRIAL ARMS DET,PATCHY AREAS,MOD HISB MID,PAIR=5426,R=E

## ARP 272

IC 1179 Her Galaxy SB(rs)cd  
 Mar 29 2006 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,INTERACTING=6050,AGC 2151,APPEAR AS ONE,R=F

NGC 6050 Her Galaxy SA(s)c EEf,S,R,VDIFFIC  
 Mar 29 2006 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,INTERACTING=IC1179,AGC 2151,APPEAR AS ONE,R=F

## ARP 273

PGC 8961 And Galaxy SA(s)b pec  
 Oct 25 2006 31" 17mmT4 PB,ML,ELONG,SMALL BNUC,2F\*S BOTH ENDS,SMBM,MOD HISB MIDDLE,PAIR=PGC8970,R=G

PGC 8970 And Galaxy SB  
 Oct 25 2006 31" 17mmT4 MB,ML,EDGE ON,PATCH,UB,NND,F\* BETWEEN GALAXIES,CIGAR SHAPE,PAIR=PGC8961,R=G

## ARP 274

NGC 5679 Vir H894-2 Galaxy Sb VF,S,R,\*12ATT  
 May 18 2007 31" 17mmT4 MF,PATCH,UB,SOMEWHAT BM,PATCHY,INTERACTING=5679A,R=F

NGC 5679A Vir Galaxy Sc  
 May 18 2007 31" 17mmT4 VF,VS,PATCH,UB,NND,2VF\*S EXT CLOSE TOGETHER BETWEEN THE 2,INTER=5679,R=P

PGC 52129 Vir Galaxy  
 May 18 2007 31" 17mmT4 EF,ES,PATCH,AV,SUSP,CLOSE COMP=5679,R=P

## ARP 275

MAC 0925- Hya Galaxy  
 Mar 29 2006 31" 17mmT4 EDIF,EF,VS,PATCH,UB,NND,AV,SUSP,COMP=2881,APPEARS AS A BULGE IN 2881,R=P

NGC 2881 Hya Galaxy S? EF,PS,2\*4'F  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,2VF\*S IN GAL,BRT \* OTHER SIDE,COMP=MAC,R=F

## ARP 276

IC 1801 Ari Galaxy SBb:  
 Oct 04 2005 31" 17mmT4 MF,MS,ELONG,UB,NND,CLOSE COMP=935,R=F

NGC 935 Ari Galaxy Scd: PB,PS,R,\*F6S  
 Oct 04 2005 31" 17mmT4 PB,ML,MOD HISB,CLOSE COMP=IC1801,F\* IN GAL EDGE,SMALL PATCH NUC,R=G  
 Oct 23 1982 12.5" 16mm VDIF,PF,PS,B\* CLOSE,\* OR NUC SUSP,2 GAL SUSP

## ARP 277

NGC 4809 Vir Galaxy Im pec F,DNEB W/4810  
 May 18 2007 31" 17mmT4 MF,MS,EDGE ON,UB,NND,CLOSE COMP=4810,R=F

NGC 4810 Vir Galaxy Im pec F,DNEB W/4809  
 May 18 2007 31" 17mmT4 MF,PS,OVAL,UB,NND,CLOSE COMP=4809,R=F

## ARP 278

NGC 7253A Peg Galaxy SB? VF,PE  
 Oct 20 2006 31" 17mmT4 MF,PL,ELONG,LARGE FNUC,INTERACTING=7253B,SOMEWHAT HISB MIDDLE,R=G

Sep 18 1982 12.5" 16mm VDIF,PF,MS,2F\*S AT EACH END,INTERACTING PAIR(7253B),PATCH,OVAL

NGC 7253B Peg Galaxy S?  
 Oct 25 2006 31" 17mmT4 MF,ML,ELONG,UB,NND,INTERACTING=7253A,2F\*S IN EDGE,R=F

## ARP 280

NGC 3769 UMa H731-2 Galaxy SB(r)b: PB,S,PME  
 Apr 09 2008 31" 17mmT4 VB,VL,ELONG,EDGE ON,UB,NND,MOD HISB,INTERACT=3769A,TIPS TOUCHING,R=E

Mar 15 1985 12.5" 16mm PF,MS,ELONG,UB

NGC 3769A UMa Galaxy SBm pec:  
 Apr 09 2008 31" 17mmT4 PF,MS,ELONG,UB,NND,INTERACT=3769,TIPS TOUCHING,R=F

# ARP Peculiar Galaxies Observations

## ARP 281

NGC 4627	CVn	H659-2	Galaxy E4 pec	F,S,R,NP OF 2
Mar 17 2007	31"	17mmT4	VB,PL,OVAL,R,LARGE NUC,SHISB,LARGE PATCHY NUC,PAIR=4631,R=G	
NGC 4631	CVn	H42-5	Galaxy SB(s)d sp	VB,VL,EE70,BMN,*ATTN
Mar 17 2007	31"	17mmT4	EB,EL,ELONG,HISB,ONE SIDE THICKER,MILKY,BRT H2 REGIONS,DUST,F* OFF NUC/TIP,R=E	
Jan 28 1982	12.5"	12mm	VB,VL,EDGE ON,* N OF NUC,F* W TIP,MOD HISB,PATCHES DET IN EQ PLANE	

## ARP 282

IC 1559	And		Galaxy SAB0 pec:	
Oct 05 2002	12.5"	9mmT6	VF,ES,OVAL,PATCH,COMP=169	
NGC 169	And		Galaxy SA(s)ab: sp	F,PL,D ORBIN,*6NF4'
Oct 05 2002	12.5"	9mmT6	PB,VL,PATCH-OVAL,NND,B* IN FOV,COMP=IC1559	

## ARP 283

NGC 2798	Lyn	H708-2	Galaxy SB(s)a pec	PB,S,STELLAR
Dec 26 2003	31"	17mmT4	PB,PL,R,LARGE BNUC,MHISB,PAIR=2799,R=G	
NGC 2799	Lyn		Galaxy SB(s)m?	F,CL,VME,F2798
Dec 26 2003	31"	17mmT4	MF,VL,EDGE ON,UB,NND,F* OFF EDGE,SLIGHT CENTRAL BULGE,PAIR=2798,R=G	

## ARP 285

NGC 2854	UMa	H714-3	Galaxy SB(s)b	CF,CS,VLE,PGLBM
Apr 07 2008	31"	17mmT4	PB,PL,ELONG,UB,NND,HISB,PAIR=2856,R=G	
NGC 2856	UMa	H713-3	Galaxy S?	CF,CS,LE,BM
Apr 07 2008	31"	17mmT4	PB,PL,OVAL,UB,NND,HISB,PAIR=2854,R=G	

## ARP 286

NGC 5560	Vir	H579-2	Galaxy SB(s)b pec	PF,CL,E,GBM
Apr 26 2003	12.5"	9mmT6	DIF,PF,VL,ELONG,UB,PATCH,NND,PAIR/5566/5569,R=F	
NGC 5566	Vir	H144-1	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
Apr 26 2003	12.5"	9mmT6	VB,PL,R,BNUC,VERY HISB,ARMS DET,LARGE NUC,VMBM,PAIR/5560/5569,R=E	
Jun 11 1983	12.5"	20mm	MB,PL,ELONG,BNUC,B*SW 1 GAL DIS.LARGE BRT NUC,HISB TOWARDS MID,PAIR/5576	
NGC 5569	Vir		Galaxy SAB(rs)cd:	EF,PL,R
Apr 26 2003	12.5"	9mmT6	EDIF,EF,ML,PATCH,AV,COMES AND GOES,DIFFICULT TO LOC,PAIR/5566/5560,R=P	

## ARP 287

NGC 2735	Cnc		Galaxy SAB(rs)b? pec	S*INVIN VF,VS NEB,E
Mar 26 2006	31"	17mmT4	MF,ML,ELONG,SBNUC,GMBM,HISB MIDDLE,PAIR=2735A,R=G	
NGC 2735A	Cnc		Galaxy Im: pec	
Mar 26 2006	31"	17mmT4	PF,VS,ELONG,SFNUC,PAIR=2735,R=F	

## ARP 288

MAC 1334+	Vir		Galaxy	
May 18 2007	31"	17mmT4	VF,VS,PATCH,NND,CLOSE COMP=5222,R=P	
NGC 5221	Vir	H86-3	Galaxy Sb:	VF,S,VLE,1ST OF 3
May 18 2007	31"	17mmT4	MB,ML,EL,EDGE ON,SFNUC,THICK NUC REGION,R=G	
NGC 5222	Vir	H85-3	Galaxy E	CF,S,R,BM,2ND OF 3
May 18 2007	31"	17mmT4	MB,MS,OVAL,LBNUC,CLOSE COMP=MAC,SOMEWHAT HISB,F* OFF ONE SIDE,R=G	

## ARP 290

IC 195	Ari		Galaxy SAB0^	
Oct 04 2005	31"	17mmT4	VB,PL,R,SMALL BNUC,HISB MIDDLE,PAIR-IC196,R=G	
IC 196	Ari		Galaxy SBb:	
Oct 04 2005	31"	17mmT4	VB,VL,ELONG,SMALL BNUC,CENTRAL BULGE,GMBM,HISB MIDDLE,PAIR=IC195,R=G	

## ARP 291

PGC 31930	Leo		Galaxy SB?	
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# ARP Peculiar Galaxies Observations

## ARP 291

PGC 31930 Leo Galaxy SB?  
 Mar 26 2006 31" 17mmT4 MB,ML,OVAL,PATCH,PATCHY AREAS,VAR BRTNESS,LARGE NUC AREA,F\* OUTER EDGE,R=G

## ARP 293

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

## ARP 294

NGC 3786 UMa Galaxy SAB(rs)a pec PB,PL,E57,GBM,P OF 2  
 Apr 09 2008 31" 17mmT4 PB,ML,ELONG,INTERACT=3788 AT TIPS,MBM,MOD HISB MIDDLE,R=G

NGC 3788 UMa Galaxy SAB(rs)ab pec CB,PL,PME177,PGBM  
 Apr 09 2008 31" 17mmT4 PB,ML,ELONG,EDGE ON,PATCH,UB,NND,SHISB,INTERACT=3786 AT TIP,BROKEN,F\* EDGE,R=G

## ARP 295

PGC 72139 Aqr Galaxy Sc? pec sp  
 Sep 12 2007 31" 17mmT4 MF,MS,EDGE ON,SLIGHT CENTRAL BULGE,BROKEN PARTS,DUST SUSP,PAIR=PGC72137,R=F

## ARP 296

PGC 35345 UMa Galaxy B  
 Apr 07 2008 31" 17mmT4 EF,PS,PATCH,UB,AVCOMES AND GOES,LOC GOOD,PAIRS=3690/IC694,R=P  
 Apr 03 2005 31" 17mmT4 VF,PS,OVAL,PATCH,UB,NND,PAIRS=MAC,IC,3690,R=P

## ARP 297

NGC 5752 Boo Galaxy Sb F,1'P5754  
 Mar 29 2006 31" 17mmT4 VF,PS,ELONG,PATCH,UB,NND,PAIR=5754,R=F

NGC 5753 Boo Galaxy F,BM,NP5754  
 Mar 29 2006 31" 17mmT4 PF,PS,OVAL,PATCH,UB,NND,PAIR=5756,R=F

NGC 5754 Boo H687-3 Galaxy SB(rs)b CF,CS,R,BM  
 Mar 29 2006 31" 17mmT4 MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,PAIR=5752,R=G

NGC 5755 Boo Galaxy SBd F,2'NF5754  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,PAIR=5753,R=G

## ARP 298

IC 5283 Peg Galaxy SA(r)cd pec?  
 Oct 06 2004 31" 17mmT4 MF,ML,ELONG-EDGEON,UB,NND,PAIR=NGC7469,R=F

NGC 7469 Peg H230-3 Galaxy (R')SAB(rs)a VF,VS,VSMBM \*12  
 Oct 06 2004 31" 17mmT4 MF,PS,OVAL,SMALL BNUC,F\* AND B\* IN GAL,SMBM,PAIR=IC5283,R=F

Sep 21 1984 12.5" 16mm DIF,VF,VS,R,SLIGHT PATCH,VMBM,VERY FAINT HALO  
 Jul 07 1981 12.5" 24mm DIF,EF,ES,EXT FAINT HALO

## ARP 299

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

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!!

PGC 35325 UMa Galaxy  
 Apr 07 2008 31" 17mmT4 EF,VS,OVAL,UB,NND,AV FINALLY HOLDS,VERY CLOSE TO 3690.R=P

# ARP Peculiar Galaxies Observations

## ARP 300

PGC 26849 UMa Galaxy SB(s)dm pec  
Apr 07 2008 31" 17mmT4 MF,MS,R,LARGE FNUC,PAIR=PGC26864,R=F

PGC 26864 UMa Galaxy SAB(s)c  
Apr 07 2008 31" 17mmT4 VF,PS,ELONG,PATCH,UB,NND,PAIR=PGC26849,R=P

## ARP 301

PGC 33855 Leo Galaxy Sb? pec  
Mar 17 2007 31" 17mmT4 MB,ML,ELONG,UB,NND,MHISB,COMP=PGC33862,R=G

PGC 33862 Leo Galaxy Sb? pec sp  
Mar 17 2007 31" 17mmT4 MB,PL,OVAL,UB,NND,MHISB,COMP=PGC33855,R=G

## ARP 302

PGC 53432 Boo Galaxy S  
Mar 29 2006 31" 17mmT4 MF,MS,EDGE ON,PATCH,UB,NND,LOC LEFT OF \*,VF\* IN EDGE,INTERACTING=PGC,R=F

PGC 53433 Boo Galaxy Double System  
Mar 29 2006 31" 17mmT4 MF,PS,PATCH,UB,NND,LOC RIGHT OF \*,INTERACTING=PGC,R=F

## ARP 304

NGC 1241 Eri H286-2 Galaxy SB(rs)b F,PL,R,VGLBM,\*9N  
Oct 24 1981 12.5" 12mm VDIFF,MF,PS,S OF 2B\*S,R,NND,PATCHY,MOD HISB,OBLONG

## ARP 307

NGC 2872 Leo H57-2 Galaxy E2 PF,PS,R,BM  
Mar 10 2007 31" 17mmT4 PB,ML,ELONG,LARGE BNUC,MOD HISB,MBM,PAIRS=2875/2873,R=G

NGC 2873 Leo Galaxy Sb VF,VS,R,N OF E NEB  
Mar 10 2007 31" 17mmT4 VF,MS,EDGE ON,UB,NND,PAIRS=2875/2875,R=F

NGC 2875 Leo H58-2 Knot in Galaxy SB(r)b EF,NF 2874  
Mar 10 2007 31" 17mmT4 PB,ML,ELONG,SMALL BNUC,SHISB,ELONG WITH PATCH OR BUMP OFF NUC,PAIRS=NGC'S,R=G

## ARP 309

NGC 942 Cet Galaxy S0+ pec: VF,R,(NEB D\*)  
Sep 12 2007 31" 17mmT4 MF,MS,OVAL,SMALL BNUC,VERY CLOSE PAIR,PAIR=943,R=F

NGC 943 Cet Galaxy I0? pec VF,R,(NEB D\*)  
Sep 12 2007 31" 17mmT4 PF,MS,ELONG,LARGE FNUC,VERY CLOSE PAIR,ALMOST TOUCHING,PAIR=942,R=F

## ARP 310

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=G

PGC 60325 Dra Galaxy S?  
Jun 24 2003 12.5" 9mmT6 MB,MS,SHISB,ON TIP OF IC1259,BOTH APPEAR AS ELONG GAL,COMP=IC1259,OTHERS,R=G

## ARP 311

IC 1258 Dra Galaxy Sab?  
Jun 24 2003 12.5" 9mmT6 MB,MS,OVAL,PATCH,UB,NND,PAIRS=IC1259/PGC60325/PGC60332,R=G

PGC 60332 Dra Galaxy  
Jun 24 2003 12.5" 9mmT6 DIF,EF,VS,PATCH,AV,PAIR=IC1258 AND OTHERS,R=P

## ARP 312

PGC 59071 Her Galaxy S  
Apr 26 2006 31" 17mmT4 VF,VS,PATCH,\* NUC,CLOSE COMP'S=PGC'S,R=P

PGC 59072 Her Galaxy S  
Apr 26 2006 31" 17mmT4 PF,PS,OVAL,R,LARGE FNUC,,CLOSE COMP'S=PGC'S,R=P

PGC 59073 Her Galaxy S  
Apr 26 2006 31" 17mmT4 VF,VS,UB,NND,CLOSE COMP'S=PGC'S,R=P

# ARP Peculiar Galaxies Observations

## ARP 313

NGC 3991	UMa			Galaxy Im pec sp	F,S,LE,1ST OF 3
Apr 09 2008	31"	17mmT4	MF,ML,EDGE ON,BRTER ONE SIDE THAN OTHER/PAIRS=3995/3994,EXCELL GROUP,R=G		
NGC 3994	UMa			Galaxy SA(r)c pec?	PB,VS,2ND OF 3
Apr 09 2008	31"	17mmT4	MB,MS,OVAL,LARGE BNUC,SHISB,BM,MOD HISB MIDDLE,EXCELL GROUP,PAIRS=3991/3995,R=G		
NGC 3995	UMa			Galaxy SAm pec	F,PL,IR,BM,3RD OF 3
Apr 09 2008	31"	17mmT4	MF,PL,OVAL,UB,NND,MOD HISB,CIGAR SHAPE,PAIRS=3991/3994/EXCELL GROUP,R=G		

## ARP 314

PGC 70127	Aqr			Galaxy (R')SA(s)bc: p	
Sep 12 2007	31"	17mmT4	MB,ML,OVAL,UB,NND,MOD HISB,PAIRS=PGC'S,R=G		
PGC 70130	Aqr			Galaxy SB(rs)cd: pec	
Sep 12 2007	31"	17mmT4	MB,ML,OVAL,UB,NND,MOD HISB,VF* IN EDGE OF GAL,ANOTHER FURTHER OUT,PAIR=PGC'S,R=G		
PGC 70133	Aqr			Galaxy (R')SB(s)dm pe	
Sep 12 2007	31"	17mmT4	EDIF,EF,VS,PATCH,AV,PAIRS=PGC'S,R=P		

## ARP 315

NGC 2830	Lyn			Galaxy SB0/a: sp	CB,CL,E,1ST OF 3
Dec 07 2005	31"	17mmT4	PF,ML,EDGE ON,PAIRS=2832,2831,EXCELLENT PAIRS,R=F		
Dec 26 2003	31"	17mmT4	DIF,MF,MS,ELONG,PATCH,UB,NND,R=F		
NGC 2831	Lyn			Galaxy E0	F,S,LE,BM,2ND OF 3
Dec 07 2005	31"	17mmT4	MF,VS,VERY CLOSE COMP=2832,ALMOST ATTACHED,PAIRS=2832/2830,EXCELLENT PARIS,R=F		
Dec 26 2003	31"	17mmT4	MF,PS,PATCH,SMALL FNUC,INTERACTING=2832,R=G		
NGC 2832	Lyn			H113-1 Galaxy E+2:	F,VS,R,3RD OF 3
Dec 07 2005	31"	17mmT4	VB,PL,R,LARGE BNUC,HISB,VERY CLOSE COMP,PAIRS=2831/2830,EXCELLENT PAIRS,R=E		
Dec 26 2003	31"	17mmT4	VB,VL,R,LARGE BNUC,MOD HISB,INTERACTING=2831,FACE ON,ARMS DET,PATCHY AREAS,R=G		

## ARP 316

NGC 3187	Leo			Galaxy SB(s)c pec	VF,E
Mar 03 1984	12.5"	12mm	NO FIND,PHOTO-BURNHAM'S P1080		
NGC 3190	Leo			H44-2 Galaxy SA(s)a pec sp	B,PS,E,PSBMN
Feb 25 1984	12.5"	12mm	MB,PL,ELONG,MOD HISB,CLOSE PAIR/3193/3185		
Jan 30 1981	12.5"	24mm	DIF,PB,PL,EDGE ON,DIM NUC,PAIR/3185/3193		
Dec 03 1980	12.5"	24mm			
NGC 3193	Leo			H45-2 Galaxy E2	B,S,VLE,PSLBM,*9NF
Feb 25 1984	12.5"	12mm	MB,ML,R,BM,F* TO W,MOD HISB,CLOSE PAIR/3190/3185		
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,DIM HALO,PAIR/3185/3190		
Dec 03 1980	12.5"	24mm			
Jun 10 1980	6"	24mm	JUST BARELY VISIBLE,DID NOT FIND OTHERS IN AREA		

## ARP 317

NGC 3623	Leo	M65		Galaxy SAB(rs)a	B,VL,ME165,GBMBN
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Feb 15 2004	31"	17mmT4	EB,EL,EDGE ON,LARGE BNUC,HISB,ARMS AND DUST,M65,BEST SEEN TODATE,R=E		
Mar 03 1984	12.5"	12mm	VB,VL,EDGE ON,BNUC,BARM,LARGE BRT NUC,TAPPERED ENDS,VMBM,VF* E EDGE,2B*S OPP		
Mar 02 1984	10"	20mm	SAME		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5"	24mm	EB,EL,BNUC,BRIGHT HALO,PAIR/3627/3626		
Dec 03 1980	12.5"	24mm			
Jun 10 1980	6"	24mm			
Apr 18 1980	6"	24mm	CLOSE PAIR/M66		
NGC 3628	Leo			H8-5 Galaxy Sb pec sp	PB,VL,VME102

# ARP Peculiar Galaxies Observations

## ARP 317

NGC 3628	Leo	H8-5	Galaxy Sb pec sp	PB,VL,VME102
Mar 03 1984	12.5"	12mm	DIF,MF,PL,EDGE ON,VF**S S OF EAST ARM,DARK LANES DET,UB,NND	
Mar 27 1981	12.5"	24mm		
Jan 30 1981	12.5"	24mm	DIF,PF,EL,EDGE ON,FAINT HALO,PAIR/M66/M65/3626	
Dec 03 1980	12.5"	24mm		
Jun 10 1980	6"	24mm	BETWEEN 2 F**S,SAME FOV AS M65/M66	

## ARP 318

NGC 833	Cet	H482-2	Galaxy (R')Sa: pec	F,S,R,1ST OF 4
Sep 12 2007	31"	17mmT4	MP,ML,ELONG,SMALL BNUC,SOMEWHAT HISB MIDDLE,HICKSON 16,R=G	
NGC 835	Cet	H483-2	Galaxy SAB(r)ab: pec	F,S,R,2ND OF 4
Sep 12 2007	31"	17mmT4	PB,ML,R,MBM,MOD HISB MIDDLE,MOD HISB MIDDLE,HICKSON 16,R=G	
NGC 838	Cet	H484-2	Galaxy SA(rs)0^ pec:	VF,VS,R,3RD OF 4
Sep 12 2007	31"	17mmT4	PB,ML,R,LARGE BNUC,MBM,MOD HISB MIDDLE,HICKSON 16,R=G	
NGC 839	Cet	H485-2	Galaxy S0: pec sp	VF,PS,R,4TH OF 4
Sep 12 2007	31"	17mmT4	MB,ML,ELONG,PATCH,UB,NND,SHISB,HICKSON 16,R=G	
NGC 848	Cet		Galaxy (R')SB(s)ab pe	EEF,PL,VDIFFIC,*NF
Sep 12 2007	31"	17mmT4	MB,ML,OVAL,LARGE FNUC,MOD HISB,R=G	

## ARP 319

NGC 7317	Peg		Galaxy E4	VF,VS
Oct 06 2004	31"	17mmT4	MB,PS,OVAL,LARGE FNUC,GBM,MOD HISB MIDDLE,STEPHAN'S QUINTET,R=F	
Sep 01 2002	12.5"	16mm	EEEDIF,VF,VS,F* ON EDGE OF GAL,SBM,STEPHEN'S QUINTET	
NGC 7318A	Peg		Galaxy E2 pec	EF,ES
Oct 06 2004	31"	17mmT4	MF,PS,OVAL,SMALL BNUC,GBM,MOD HISB MIDDLE,STEPHAN'S QUINTET,R=F	
Sep 18 1982	12.5"	16mm	STEPHENS QUINTET,VDIF,VF,MS,PATCH-OVAL,ONE OF THE BRT MEMBERS	
Jul 06 1983	12.5"	16mm	EEDIF,EF,ES,F**S SURROUND,PATCH,EDGE OF VIS	
Sep 01 2002	12.5"	16mm	EEDIF,PF,PS,ELONG,COMP=7318B,CONNECTED,COULD NOT SPLIT,OVAL,PATCH,NND	
NGC 7318B	Peg		Galaxy SB(s)bc pec	EF,ES
Oct 06 2004	31"	17mmT4	MB,PS,OVAL,SMALL BNUC,GBM,MOD HISB MIDDLE,STEPHAN'S QUINTET,R=G	
Sep 01 2002	12.5"	16mm	EEDIF,PF,PS,COMP=7318A,CONNECTED,COULD NOT SPLIT,STEPHAN'S QUINTET	
NGC 7319	Peg		Galaxy SB(s)bc pec	EF,ES
Oct 06 2004	31"	17mmT4	PB,ML,OVAL,PATCH,SMALL FNUC,SHISB,STEPHAN'S QUINTET,R=G	
Sep 01 2002	12.5"	16mm	EEDIF,VF,PS,NND,OVAL PATCH,STEPHEN'S QUINTET	
NGC 7320	Peg		Galaxy SA(s)d	F,VS
Oct 06 2004	31"	17mmT4	PB,PL,OVAL,UB,NND,MOD HISB,*IN GAL,PATCHY AREAS DET,STEPHAN'S QUINTET,R=E	
Sep 01 2002	12.5"	16mm	VDIF,PF,PS,ELONG,BRIGHTER OF GROUP,OVAL,NND,COMP,STEPHAN'S QUINTET	
Sep 21 1984	12.5"	16mm	VDIF,VF,VS,FAINT PATCH,2 COMP CLOSE BY DET	
Sep 18 1982	12.5"	16mm	STEPHENS QUINTET,EDIF,VF,MS,OBLONG,BRT MEMBER	

## ARP 320

NGC 3745	Leo		Galaxy SB(s)0-:	PB,PS,R
Mar 29 2006	31"	17mmT4	VF,VS,VERY SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3746	Leo		Galaxy SB(r)b	PB,PS,R
Mar 29 2006	31"	17mmT4	PF,PS,VERY SMALL NUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3748	Leo		Galaxy SB0^? sp	PB,PS,R
Mar 29 2006	31"	17mmT4	VF,VS,VERY SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3750	Leo		Galaxy SAB0-?	PB,R,CBM,1ST OF3LINE
Mar 29 2006	31"	17mmT4	PF,PS,R,SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3751	Leo		Galaxy S0- pec?	F,L,E45

# ARP Peculiar Galaxies Observations

## ARP 320

NGC 3751	Leo		Galaxy S0- pec?	F,L,E45
Mar 29 2006	31"	17mmT4	VF,PS,VERY SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3753	Leo		Galaxy Sab? sp pec	PB,PL,2ND OF3IN LINE
Mar 29 2006	31"	17mmT4	MF,MS,ELONG,UB,NND,EXCELLENT HICKSON GROUP,R=F	
NGC 3754	Leo		Galaxy SBb? pec	VF,R,3RD OF3 IN LINE
Mar 29 2006	31"	17mmT4	PF,VS,R,UB,NND,EXCELLENT HICKSON GROUP,R=P	

## ARP 321

PGC 27508	Hya		Galaxy SB(rs)b pec sp	
Mar 29 2006	31"	17mmT4	VF,PS,ELONG,EDGE ON,UB,NND,COMP=PGC27513,EXCELLENT HICKSON GRP,R=P	
PGC 27509	Hya		Galaxy E	
Mar 29 2006	31"	17mmT4	MF,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,EXCELLENT HICKSON GRP,R=F	
PGC 27513	Hya		Galaxy SA(r)0-: pec	
Mar 29 2006	31"	17mmT4	MF,PS,R,LARGE FNUC,ATTACHED TO PGC27508,EXCELLENT HICKSON GRP,R=F	
PGC 27515	Hya		Galaxy SAB(s)a pec:	
Mar 29 2006	31"	17mmT4	EDIF,EF,ES,AV,SUSP,EXCELLENT HICKSON GRP,R=P	
PGC 27516	Hya		Galaxy SB(s)0/a pec:	
Mar 29 2006	31"	17mmT4	PF,PS,OVAL,SMALL BNUC,F* IN EDGE,EXCELLENT HICKSON GRP,R=F	

## ARP 322

PGC 35609	UMa		Galaxy SB0 pec:	
Feb 23 2006	31"	17mmT4	PF,MS,ELONG,VERY SMALL FNUC,STELLAR NUC SUSP,EXCELLENT HICKSON GROUP,R=F	
PGC 35615	UMa		Galaxy SA(s)0/a pec:	
Feb 23 2006	31"	17mmT4	MF,PS,OVAL,STELL NUC,EXCELLENT HICKSON GROUP,R=F	
PGC 35618	UMa		Galaxy (R')S0/a pec:	
Feb 23 2006	31"	17mmT4	MF,PS,OVAL,SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
PGC 35620	UMa		Galaxy Sa pec sp	
Feb 23 2006	31"	17mmT4	MB,PS,ELONG,SMALL BNUC,EXCELLENT HICKSON GROUP,R=F	
PGC 35631	UMa		Galaxy S?	
Feb 23 2006	31"	17mmT4	PF,MS,ELONG TO EDGE ON,SMALL VERY FNUC,EXCELLENT HICKSON GROUP,R=F	

## ARP 323

NGC 7783	Psc		Galaxy	F,S,LE
Sep 04 2005	31"	17mmT4	PF,VS,SMALL FNUC,F* BETWEEN COMP,PAIRS=PGC'S,MOD HISB MIDDLE,R=F	
PGC 72806	Psc		Galaxy S0+?	
Sep 04 2005	31"	17mmT4	EF,ES,PATCH,PAIRS=PGC'S/7783,SUSP,R=P	
PGC 72808	Psc		Galaxy E?	
Sep 04 2005	31"	17mmT4	PF,VS,SMALL FNUC,F* BETWEEN COMP,PAIRS=PGC'S/7783,MOD HISB MIDDLE,R=F	
PGC 72810	Psc		Galaxy E?	
Sep 04 2005	31"	17mmT4	VF,ES,OVAL,UB,NND,F* OFF ONE SIDE,PAIRS=PGC'S/7783,R=P	

## ARP 324

MAC 1602+	Her		Galaxy	
Apr 26 2006	31"	17mmT4	MF,MS,R,LARGE FNUC,ONE OF THE BETTER MAC'S,PAIRS=PGC'S,MAC'S,EXCELL FOV,R=F	
Mar 29 2006	31"	17mmT4	MF,MS,OVAL,LFNUC,SHISB,MOD HISB MIDDLE,BEST MAC TODATE,COMP=MAC,MANY COMP,R=F	
MAC 1602+	Her		Galaxy	
Apr 26 2006	31"	17mmT4	PF,VS,PATCH,UB,NND,F* OFF EDGE,SBM,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GAL,R=P	
Mar 29 2006	31"	17mmT4	VF,PS,PATCH,UB,NND,COMP=MAC,F* ON EDGE OF GAL,MANY COMP,EXCELLENT GROUP,R=P	
MAC 1602+	Her		Galaxy	
Apr 26 2006	31"	17mmT4	EF,ES,PATCH,AV,SUSP,PAIRS=PGC'S/MAC,EXCELLENT FOV OF GALAXIES,R=P	
MAC 1602+	Her		Galaxy	

# ARP Peculiar Galaxies Observations

## ARP 324

MAC 1602+ Her Galaxy  
 May ~~1601~~ 31" 17mmT4 EF,VS,PATCH,NND,VF\* OFF ONE SIDE,COMP=PGC56783,APPEAR AS ONE,SPLIT W/AV ONLY,R=P

PGC 56770 Her Galaxy E3  
 Apr 26 2006 31" 17mmT4 PF,MS,ELONG,UB,NND,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=F  
 Mar 29 2006 31" 17mmT4 PF,MS,ELONG,UB,NND,MANY COMP,EXCELLENT GROUP,R=F

PGC 56777 Her Galaxy SAB(r)ab  
 Apr 26 2006 31" 17mmT4 MF,MS,R,LARGE FNUC,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=P  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,SHISB,MANY COMP,EXCELLENT GROUP,R=F

PGC 56782 Her Galaxy  
 May 18 2007 31" 17mmT4 PF,VS,OVAL,PATCH,UB,NND,R=F  
 Apr 26 2006 31" 17mmT4 DIF,VF,VS,PATCH,UB,NND,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=P  
 Mar 29 2006 31" 17mmT4 VF,VS,PATCH,UB,NND,PAIRS=PGC56784/PGC56783,R=P

PGC 56783 Her Galaxy  
 May 18 2007 31" 17mmT4 VF,VS,PATCH,NND,COMP=MAC,APPEAR AS ONE,CAN SPLIT WITH AV,R=P  
 Apr 26 2006 31" 17mmT4 DIF,VF,PS,PATCH,UB,NND,PAIRS=MAC'S/PGC'S,EXCELLENT FOV OF GALAXIES,R=P  
 Mar 29 2006 31" 17mmT4 VF,VS,PATCH,UB,NND,PAIRS=PGC56784/PGC56782,R=P

PGC 56784 Her Galaxy E+  
 May 18 2007 31" 17mmT4 MB,ML,OVAL,LARGE FNUC,SOMEWHAT HISB MIDDLE,R=G  
 Apr 26 2006 31" 17mmT4 MF,MS,R,LARGE FNUC,SBM,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=F  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,SHISB,MANY COMP,EXCELLENT GROUP,R=G

## ARP 325

PGC 70935 Peg Galaxy Sc  
 Sep 05 2007 31" 17mmT4 VF,MS,PATCH,UB,NND,VERY CLOSE TO B\*,R=P

## ARP 326

MAC 1337+ Vir Galaxy  
 May ~~0624~~ 31" 17mmT4 PF,PS,OVAL,PATCH,UB,NND,PAIRS=MANY OTHERS,R=P

MAC 1337+ Vir Galaxy  
 May ~~0626~~ 31" 17mmT4 VF,VS,PATCH,UB,NND,PAIRS=MANY OTHERS,R=P

MAC 1337+ Vir Galaxy  
 May ~~0622~~ 31" 17mmT4 EDIF,EF,ES,PATCH,UB,PAIRS=MANY OTHERS,R=P

PGC 48105 Vir Galaxy Sa  
 May 18 2007 31" 17mmT4 MF,MS,OVAL,SFNUC,SOMEWHAT MOD HISB MIDDLE,PAIRS=MANY OTHERS,R=F

PGC 48117 Vir Galaxy S  
 May 18 2007 31" 17mmT4 PF,MS,ELONG,OVAL,UB,NND,PAIRS=MANY OTHERS,R=F

PGC 48118 Vir Galaxy SB  
 May 18 2007 31" 17mmT4 PF,MS,ELONG,OVAL,UB,NND,PAIRS=MANY OTHERS,R=F

## ARP 327

NGC 1875 Ori Galaxy S0? EF,S,R  
 Oct 01 2005 31" 17mmT4 PF,MS,R,LARGE FNUC,SOMEWHAT HISB MIDDLE,PAIR=PGC'S,R=F

PGC 17173 Ori Galaxy S  
 Oct 01 2005 31" 17mmT4 EF,ES,AV,APPEARS AS A LINE OF FAINT NEB FROM 1875,R=P

PGC 17175 Ori Galaxy S  
 Oct 01 2005 31" 17mmT4 EF,ES,AV,APPEARS AS A LINE OF FAINT NEB FROM 1875,R=P

PGC 17176 Ori Galaxy SA0-:  
 Oct 01 2005 31" 17mmT4 EF,ES,AV,APPEARS AS A LINE OF FAINT NEB FROM 1875,BRIGHTER OF THE 3,R=P

## ARP 328

PGC 52844 Boo Galaxy S0?

# ARP Peculiar Galaxies Observations

## ARP 328

PGC 52844	Boo			Galaxy S0?	
Apr 06 2008	31"	17mmT4	VF,VS,PATCH,SMALL FNUC,HICKSON 72,R=P		
Mar 29 2006	31"	17mmT4	VF,VS,PATCH,*NUC,PAIRS=PGC'S,WHERE IS HICKSON 72E?,R=P		
PGC 52848	Boo			Galaxy S	
Apr 06 2008	31"	17mmT4	VF,VS,PATCH,SMALL FNUC,CLOSE COMP=PGC52851,HICKSON 72,R=P		
Mar 29 2006	31"	17mmT4	VF,VS,PATCH,VSFNUC,CLOSE COMP=PGC52851,PAIRS=PGC'S,R=P		
PGC 52851	Boo			Galaxy L	
Apr 06 2008	31"	17mmT4	VF,VS,PATCH,SMALL FNUC,CLOSE COMP=PGC52848,HICKSON 72,R=P		
Mar 29 2006	31"	17mmT4	VF,VS,PATCH,VSFNUC,CLOSE COMP=PGC52848,PAIRS=PGC'S,R=P		
PGC 52854	Boo			Galaxy S0?	
Apr 06 2008	31"	17mmT4	F,VS,PATCH,NND,HICKSON 72,R=P		
Mar 29 2006	31"	17mmT4	VF,VS,PATCH,UB,NND,KEEP * OUT OF FOV,PAIRS=PGC'S,R=P		

## ARP 329

PGC 35572	Dra			Galaxy Chain	
Apr 09 2008	31"	17mmT4	EF,ES,UB,NND,ALL APPEAR AS A SINGLE EDGE ON GAL,ALL IN SAME PLANE,R=P		
PGC 35573	Dra			Galaxy SBa pec:	
Apr 09 2008	31"	17mmT4	VF,VS,UB,NND,ALL APPEAR AS A SINGLE EDGE ON GAL,ALL IN SAME PLANE,R=P		
PGC 35574	Dra			Galaxy S0 pec:	
Apr 09 2008	31"	17mmT4	EF,ES,UB,NND,ALL APPEAR AS A SINGLE EDGE ON GAL,ALL IN SAME PLANE,R=P		
PGC 35575	Dra			Galaxy SA0 pec:	
Apr 09 2008	31"	17mmT4	VF,VS,UB,NND,ALL APPEAR AS A SINGLE EDGE ON GAL,ALL IN SAME PLANE,R=P		
PGC 35576	Dra			Galaxy S?	
Apr 09 2008	31"	17mmT4	EF,ES,UB,NND,ALL APPEAR AS A SINGLE EDGE ON GAL,ALL IN SAME PLANE,R=P		

## ARP 330

PGC 59042	Dra			Galaxy E2 pec:	
Mar 26 2006	31"	17mmT4	MF,VS,PATCH,VERY SMALL FNUC,MULTI GAL,PAIRS=PGC'S,R=F		
PGC 59048	Dra			Galaxy E2 pec:	
Mar 26 2006	31"	17mmT4	VF,VS,PATCH,NND,MULTI GAL,PAIRS=PGC'S,R=P		
PGC 59049	Dra			Galaxy E1:	
Mar 26 2006	31"	17mmT4	PF,PS,R,SMALL BNUC,MULTI GAL,PAIRS=PGC,R=F		
PGC 59050	Dra			Galaxy SB(s)bc: pec	
Mar 26 2006	31"	17mmT4	VF,VS,PATCH,NND,MULTI GAL,PAIRS=PGC'S,R=P		
PGC 59054	Dra			Galaxy E0:	
Mar 26 2006	31"	17mmT4	VF,VS,PATCH,NND,MULTI GAL,PAIRS=PGC'S,R=P		

## ARP 333

NGC 1024	Ari		H592-2	Galaxy (R')SA(r)ab	PF,S,LE,BM,*11NF 1'
Sep 25 2003	31"	17mmT4	VB,VL,ELONG,LARGE BNUC,GMBM,HISB,PAIRS/1028/1029,R=G		
Oct 23 1982	12.5"	16mm	MF,ML,FNUC,F* TO N,GBM,ROUND-OVAL,PAIR/1029		

## ARP 334

PGC 47462	CVn			Galaxy Sb	
Mar 17 2007	31"	17mmT4	MF,MS,ELONG,LARGE FNUC,SMALL PATCH DET ONE END,R=F		

## ARP 335

NGC 3509	Leo		H598-3	Galaxy SA(s)bc pec	EF,S,(LE)
Mar 26 2006	31"	17mmT4	MF,VL,UB,NND,IRR, S-SHAPED,PATCHY AREAS,R=G		

## ARP 336

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,TAPPED ENDS,FAINT GLOW AROUND NUC		

# ARP Peculiar Galaxies Observations

## ARP 337

NGC 3034	UMa	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
Feb 04 2005	31"	17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BROKEN,BEST TO DATE,R=E		
Apr 14 2004	31"	17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BROKEN PARTS,R=E		
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 15 1985	12.5"	12mm	SAME,IRR		
Mar 02 1984	10"	20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES		
Oct 22 1982	12.5"	12mm	VB,VL,EDGE ON,VERY HISB,2 DUST LANES DET,BRT REGIONS DET,TAPPERED,KNTY		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5"	24mm			
Oct 31 1980	12.5"	24mm			
Oct 29 1980	8"	24mm			
Sep 18 1980	12.5"	24mm			
Sep 10 1980	12.5"	24mm			
Sep 09 1980	12.5"	24mm			
Aug 22 1980	12.5"	24mm			