

# ARP Peculiar Galaxies

## 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,PATCHY,SVRL VF\*\*S IN AND SUR GLXY,R=P

## ARP 3

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

## ARP 4

PGC 6626 Cet Galaxy IAB(rs)m  
 Nov 17 2012 36" 17mmT4 DIF,EF,PS,R,PATCH,NND,PAIR=6629,R=P

PGC 6629 Cet Galaxy Sc  
 Nov 17 2012 36" 17mmT4 MF,MS,NND,PAIR=6626,R=F

## 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 GLXY DET,PAIR=2537A,R=E

## ARP 7

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

## ARP 8

NGC 497 Cet Galaxy SB(rs)bc: EF,PS,R,VLBM,R  
 Sep 18 2009 31" 17mmT4 MB,ML,OVAL,PATCH,NND,PATCHY AREAS,BKN PARTS,R=G

## ARP 9

NGC 2523 Cam Galaxy SB(r)bc PB,PL,LE,LBM,\*NR  
 Feb 01 2005 31" 17mmT4 VF,VL,EL,BLNUC,MHISB,B BAR LIKE NUC,GMBM,HALO SUR BAR,R=G  
 Sep 18 1980 12.5" 24mm

## ARP 10

PGC 8802 Cet Galaxy S?  
 Sep 12 2007 31" 17mmT4 MF,MS,OVAL-R,BSNUC,SHISB CNTR,R=F

## ARP 11

PGC 4116 Psc Galaxy SBb  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,FLNUC,PAIRS=PGC'S/MAC,R=G

PGC 4124 Psc Galaxy SBb  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,FLNUC,PAIRS=PGC'S/MAC,R=G

## 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,EL,MHISB,BET 2\*S,SBM,NO \*S  
 Jul 07 1981 12.5" 24mm DIF,MF,ML,F ARM  
 Sep 10 1980 12.5" 24mm

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## ARP 13

NGC 7448 Peg H251-2 Galaxy SA(rs)bc PB,L,E173,VGBM,\*F2'  
 Jul 15 1980 12.5" 24mm PF,LOC BET 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,MHISB,R=G

## ARP 16

NGC 3627 Leo M66 Galaxy SAB(s)b B,VL,ME150,MBM,2\*NP  
 Mar 08 2013 36" 17mmT4 MESSIER MARATHON 2013  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 Feb 15 2004 31" 17mmT4 EB,EL-OVAL,BLNUC,B BAR,SPR ARMS DET,DUST DET,HISB,M66, BEST TODATE,R=E  
 Mar 03 1984 12.5" 12mm VB,VL,EDGE ON,BNUC,GBM,VBSNUC,B\*NW,FTR \* SW  
 Mar 02 1984 10" 20mm SAME  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Jan 30 1981 12.5" 24mm EB,EL,EL,BNUC,B 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 OBJ,IRR IN SHAPE,INTRACT=PGC21693,R=P  
 PGC 21693 Cam Galaxy SB?  
 Dec 19 2006 31" 17mmT4 PF,PS,PATCH,UB,NND,APPEAR AS ONE OBJ,IRR IN SHAPE,INTRACT=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,SHISB,PAIR=4085,R=E  
 Feb 12 1983 12.5" 24mm DIF,PB,PL,EL,HISB,NND,UB,W SIDE WIDER THAN E,PAIR/4085

## ARP 19

NGC 145 Cet Galaxy SB(s)dm F,PL,VLE,VGBM,\*8 F5'  
 Sep 16 2009 31" 17mmT4 MF,MS,UB,NND,PATCHY,PAIR=MAC,HAS SOME WISPS BOTH ENDS,KEEP B\* OUT OF FOV,R=F

## ARP 20

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

## ARP 21

PGC 33487 LMi Galaxy SBbc  
 Apr 09 2008 31" 17mmT4 PF,MS,OVAL,UB,NND,SHISB,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,MHISB,V\*OUTER EDGE,L CNTR REGI,PATCHY NUC,MBM,PAIR=4027A,R=G  
 May 03 1981 12.5" 16mm DIF,PB,PL,DNUC,F 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

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## 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 GLXY SIDE BY SIDE,ONE HALF BTR,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 GLXY OR DARK LANE  
 Mar 27 1981 12.5" 24mm

NGC 4625 CVn H660-2 Galaxy SAB(rs)m pec PF,S,R  
 Feb 17 2004 31" 17mmT4 PB,PL,R,BLNUC,MHISB CNTR,PAIR=4618,R=E  
 Jan 28 1982 12.5" 16mm EDIF,VF,VS,\* TO S,PATCHY,NND,PAIR/4618

## 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,MHISB,PAIR=PGC32784,R=G  
 Mar 15 1985 12.5" 16mm DIF,PF,MS,BNUC,MHISB,OVAL-R,F\* CLOSE BY,UB,3458 IN SAME FOV

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,VSMBMSN 4  
 Mar 08 2010 31" 17mmT4 PB,EL-OVAL,BSNUC,FACE ON,SPR STR,H2 RGN,DUST,DETAIL IN ARMS,MANY F\*S IN ARMS,PAIRS=NGC'S,R=E  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 Mar 06 2003 12.5" 9mmT6 EB,EL,R,BSNUC,HISB,FACE ON,KNTS DET,ARMS DET,SPR STR DET,F\*S,R NUC,R=E  
 Mar 02 1984 10" 20mm MB,EL,BNUC,FACE ON,F\* JUST N OF NUC,SPR STR SUSP  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Apr 16 1980 6" 24mm

NGC 5474 UMa H214-1 Galaxy S(c) PB,L,BM  
 Mar 06 2003 12.5" 9mmT6 PF,PL,R,PATCH,NND,PATCHY,F\* IN GLXY DET,R=G  
 Jun 11 1983 12.5" 20mm DIF,MB,PL,FNUC,F\*NW 1 GLXY DIA,OVAL,BSNUC,S OF M101  
 Mar 27 1981 12.5" 24mm

## 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,SNUC,SPR STR DET,2 \*S OUTER ARMS  
 Oct 22 1982 12.5" 16mm DIF,VF,MS,PATCHY,OVAL,\*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,F HALO,3\*S ~11TH MAG  
 Sep 10 1980 12.5" 24mm 3B\*S IN GLXY

## ARP 29

NGC 6946 Cep H76-4 Galaxy SAB(rs)cd VF,VL,VG,VSBM,RR  
 Sep 12 2012 36" 17mmT4 PB,VL,BSNUC,SPR ARMS,KNOTS IN ARMS DET,H2 RGN DET,R=E  
 Jun 22 2003 12.5" 9mmT6 VB,EL,R,NND,SHISB,AREAS OF PATCHES DET,SVRL \*S IN GLXY,R=E  
 Jul 09 1983 12.5" 24mm MF,VL,OVAL,3B\*S TO ONE SIDE,SVRL F\*S IN GLXY,SPR STR SUSP,PAIR/6939  
 Aug 14 1982 12.5" 16mm EDIF,MF,PL,PATCHY,OVAL,NND,\*S IN GLXY,SEE CARD FOR DRAWING  
 Jun 06 1981 12.5" 16mm DIF,VL,MB,SOME SPR STR DET,FACE ON,SEVEAL \*S IN GLXY,RESEMBLES M33  
 Aug 19 1980 12.5" 32mm VF,COULD NOT FIND IN 24MM

## ARP 30

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## ARP 30

NGC 6365A	Dra	Galaxy SBcd:	EEF,PL,IR,EF ST INV
Mar 04 2006 31"	17mmT4	VF,PS,EL,UB,NND,CLOSE INTRACT PAIR 6365,BARELY SEP THE TWO,R=F	
Jun 23 2003 12.5"	9mmT6	VDIF,VF,PS,UB,NND,COMP=6365B,APPEARS AS ONE GLXY,EL,R=P	
NGC 6365B	Dra	Galaxy S	
Jun 23 2003 12.5"	9mmT6	VDIF,VF,PS,UB,NND,COMP=6365A,APPEARS AS ONE GLXY,EL,R=P	

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

## ARP 33

MAC 1337+0624	Vir	Galaxy	
May 18 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,EL-OVAL,UB,NND,PAIRS=MANY OTHERS,R=F	

## ARP 34

NGC 4615	Com	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	

## ARP 35

PGC 1431	Psc	Galaxy S	
Sep 16 2009 31"	17mmT4	VF,VS,OVAL,PATCH,NND,AV HOLDS,PAIR=PGC1434,R=P	
PGC 1434	Psc	Galaxy SB	
Sep 16 2009 31"	17mmT4	PF,MS,OVAL,FLNUC,PAIR=PGC1431,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
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984 10"	20mm	SAME		
Sep 27 1981 12.5"	16mm	PB,PL,SUDLY BUILDS TO B* LIKE NUC,FACE ON,F 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,MHISB,F* IN GLXY,PATCHY AREAS DET,R=G		
Jul 22 1981 12.5"	16mm	R,DIF,SPR STR SUSP,F* 14TH MAG N SIDE,B* FARTHER N		

## ARP 39

NGC 1347	Eri	Galaxy SB(s)c: pec	EF,PS,E130,SBMN
Sep 12 2012 36"	17mmT4	VF,VS,OVAL,PATCH,UB,BOTH APPEAR AS ONE,CANNOT SEP OR DETECT,PAIR=MAC,R=PF	

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## 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 GLXY 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,VFSNUC,R HALO,BI\* IN GLXY,R=F

## ARP 44

IC 609 Sex Galaxy SAB(rs)bc pec  
 Mar 26 2006 31" 17mmT4 MF,ML,OVAL,PATCH,VFSNUC,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+1851 Boo Galaxy  
 Mar 17 2010 31" 17mmT4 PF,VS,OVAL,UB,NND,PAIRS=PGC52803/MAC,R=F  
 Mar 29 2006 31" 17mmT4 PF,VS,OVAL,VFSNUC,\* CLOSE BY,COMP=PGC52803,PAIR=MAC,R=F  
 PGC 52803 Boo Galaxy SB  
 Mar 17 2010 31" 17mmT4 PF,VS,OVAL,UB,NND,VF\* JUST OFF EDGE,PAIRS=MAC'S,R=F  
 Mar 29 2006 31" 17mmT4 PF,VS,OVAL,VFSNUC,\* CLOSE BY,COMP=MAC,PAIR=MAC,R=F

## ARP 48

PGC 4789 Psc Galaxy  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,PATCH,NND,PATCHY AREAS,IRR IN SHAPE,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,B HALO

## ARP 50

IC 1520 Cet Galaxy S?  
 Nov 11 2009 31" 17mmT4 VF,MS,OVAL,PATCH,UB,NND,R=P

## ARP 51

PGC 475 Cet Galaxy  
 Sep 16 2009 31" 17mmT4 EF,VS,PATCH,AV COMES AND GOES,R=P

## 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

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## 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,BLNUC,B\* CLOSE BY,PAIR=MAC,R=F

PGC 26132      Lyn      Galaxy Double System  
 Mar 20 2007 31"    17mmT4    MF,MS,OVAL,BAR LIKE NUC,F 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 57

PGC 46225      Com      Galaxy SB  
 Mar 20 2009 31"    17mmT4    VF,PS,OVAL,PATCH,UB,NND,FIELD \* CLOSE BY,PAIR=PGC46234,R=P

PGC 46234      Com      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

## ARP 58

PGC 23935      Cnc      Galaxy SAB(rs)c pec  
 Mar 26 2006 31"    17mmT4    DIF,PF,VL,OVAL,PATCH,NND,VLCNTR RGN,PATCHY,R=F

## ARP 59

NGC 341      Cet      Galaxy SAB(r)bc      F,PL,R,LBM,R  
 Sep 17 2009 31"    17mmT4    MF,ML,OVAL,BSNUC,PATCHY,BAR SUSP,FACE ON,INTRACT=PGC3627,R=G

PGC 3627      Cet      Galaxy  
 Sep 17 2009 31"    17mmT4    VF,VS,PATCH,WITH AV EXTENSION OF 341,INTRACT=341,R=P

## ARP 60

MAC 1314+2606    Com      Galaxy  
 Mar 17 2010 31"    17mmT4    VF,VS,PATCH,NND,VF\* OFF EDGE,PAIRS=MAC'S,R=P

## ARP 61

PGC 15632      Eri      Galaxy L  
 Nov 17 2012 36"    17mmT4    MF,PS,OVAL,FLNUC,PAIR=PGC15637,R=F

PGC 15637      Eri      Galaxy Sa  
 Nov 17 2012 36"    17mmT4    MF,MS,EL,FLNUC,SHISB,\* JUSTG OFF NUC,PAIR=PGC15632,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,EL TO EDGEON,SLT BM ALONG BAR,PAIR=PGC27546,R=F

## ARP 64

PGC 52698      Boo      Galaxy Sb  
 Mar 29 2006 31"    17mmT4    PF,MS,EL-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,EL,PATCH,FSNUC,NGC 83 CL OF 13,R=F  
 Oct 05 2002 12.5"    9mmT6    VDIF,PF,PL,PATCH,UB,NND,PAIR=93

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## ARP 65

NGC 93 And Galaxy S? VF,VS  
 Nov 20 2003 31" 17mmT4 VB,PL,R,BLNUC,HISB CNTR,NGC 83 CL OF 13,R=E  
 Oct 05 2002 12.5" 9mmT6 PB,ML,BNUC,MHISB,R,SBM,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 67

PGC 4906 Cet Galaxy SB(r)ab  
 Sep 18 2009 31" 17mmT4 MF,MS,EL,BSNUC,GRADUALLY BM,INTRACT=MAC,R=F

## ARP 68

NGC 7757 Psc Galaxy SA(rs)c VF,CL,VLE,VGLBM,2\*N  
 Sep 17 2009 31" 17mmT4 MF,PL,OVAL,NND,FACE ON,PATCHY AREAS,ARMS,INTRACT=7756,PAIR=7756,R=G

## 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 70

MAC 0123+3046 Psc Galaxy  
 Sep 19 2009 31" 17mmT4 PF,PS,OVAL,UB,NND,PAIR=PGC5085,R=P  
 PGC 5085 Psc Galaxy S?  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,FLNUC,PAIR=MAC,R=F

## ARP 71

MAC 1605+1745 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  
 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,BSNUC,BAR LIKE NUC,PAIR=5994,R=G  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,FSNUC,COMPACT NUC,BAR DET,FARMS FROM END OF BAR,R=G

## ARP 73

IC 1222 Her Galaxy SAB(s)c  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,SHISB,F CNTR BAR,\*NUC,R=F

## ARP 74

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

## ARP 75

NGC 702 Cet H192-3 Galaxy SB(s)bc pec EF,VLE0,\*13S90"  
 Nov 17 2012 36" 17mmT4 MF,MS,OVAL,FLNUC,F\* OFF EDGE,PAIRS=MAC'S,R=F

## ARP 76

IC 3583 Vir Galaxy IBm  
 May 18 2007 31" 17mmT4 DIF,MF,VL,PATCH,UB,3\*S IN GLXY,APPEARS AS A NEB,PATCHY AREAS,R=F  
 NGC 4569 Vir M90 Galaxy SAB(rs)ab PL,BMN  
 Apr 11 2015 36" 17mmT4 PB,EL,EL-OVAL,BS\*NUC,F OVAL HALO MOSTLY ELNO ARM STR,R=G

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NGC 4569	Vir	M90	Galaxy SAB(rs)ab	PL,BMN
May 18 2007 31"	17mmT4	EB,EL,EL,VBSNUC,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,EL,BNUC,B 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 16 2009 31"	17mmT4	EB,EL-OVAL,EXT BLNUC,SUDLY MBM,CNTR REG UB,L HALO OFARMS,INTRACT=1097A,R=E		
Sep 09 1980 12.5"	24mm			
Sep 10 1980 12.5"	24mm			
NGC 1097A	For		Galaxy E pec:	
Sep 16 2009 31"	17mmT4	MB,MS,EL,UB,NND,SHISB,INTRACT=1097,INSIDE 1097 ARMS,R=F		

## 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,*NUC,SLT HAZE SUR 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,SBM,EL,* E SIDE,F 15TH MAG COMP W/770 1 GLXY 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,SIM 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,EL,BLNUC,SHISB,B* IN NUC,GMBM,NGC2633 GRP,R=F		
Sep 18 1980 12.5"	24mm			

## ARP 81

NGC 6621	Dra		Galaxy Sb: pec	PF,PS,R,LBM,S OF 2
Jul 09 2005 31"	17mmT4	MB,ML,EL,BLNUC,SHISB,TAPERED ENDS,COMP IN EDGE,GMBM,R=G		
Jun 23 2003 12.5"	9mmT6	MB,PL,EL,UB,NND,SHISB,R=F		
NGC 6622	Dra		Galaxy S	PF,PS,R,LBM,N OF 2
Jul 09 2005 31"	17mmT4	MB,MS,R,BLNUC,BM,SHISB,COMP=6621,INTRACT,R=G		

## ARP 82

NGC 2535	Cnc		Galaxy SA(r)c pec	EF,VS,R
Mar 17 2010 31"	17mmT4	MB,ML,OVAL,VS*NUC,FACE ON,PATCHY AREAS SUR NUC,PAIR=2536,R=G		
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 2010 31"	17mmT4	MF,MS,PATCH,NND,PAIR=2535,R=F		
Mar 17 2007 31"	17mmT4	MB,ML,OVAL,FLNUC,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,FLNUC,MHISB,SMWHT BM,R=G		

# ARP Peculiar Galaxies

## ARP 83

NGC 3800      Leo                    H103-2    Galaxy SAB(rs)b: pec                    F,PS,E,PGLBM,R,FOF 2  
 Mar 29 2006 31"    17mmT4    VB,VL,EL,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,SUDLY 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,EL-OVAL,FLNUC,MHISB,SPR ARMS DET,PATCH AREAS,PAIR=5394,R=E  
 Jan 28 1982 12.5"    16mm      DIF,PB,PL,EL,GBM

## ARP 85

NGC 5194      CVn                    M51                    Galaxy SA(s)bc pec                    GREAT SPIRAL NEBULA

Apr 19 2014 36"    17mmT4    EB,EEL,BLNUC,HISB,M51,INTRACT=5195,ARMS,DUST,H2 RGN,SBM,R=EE  
 Apr 19 2014 36"    31mmT5    JUST ABSOLUTELY STUNNING  
 Mar 19 2004 12.5"    12mmT4    MESSIER MARATHON 2004  
 Dec 26 2003 31"    17mmT4    EB,EL,R,BSNUC,GMBM,SPRIAL ARMS DET,BEST EVER SEEN,B CNTR CORE,BH2 RGN DET,M51,R=E  
 Mar 02 1984 10"    20mm      SAME  
 Jan 28 1982 12.5"    16mm      DARK AREAS SEPARATE WINDING ARMS,INTRACT 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  
 Apr 19 2014 36"    17mmT4    EB,EL,BLNUC,HISB,HALF ARMS APPEAR BTR THAN OTHER HALF,INTRACT=5194,R=E  
 Apr 19 2014 36"    31mmT5    JUST ABSOLUTELY STUNNING  
 Mar 16 2010 31"    17mmT4    VB,VL,OVAL,VBSNUC,HISB CNTR,SUDLY MBM,COMP=M51,SPR ARMS,BRIDGE CONNECTS TO M51,F  
 BAR ACROSS NUC,R=E  
 Jan 28 1982 12.5"    24mm      MB,ML,BNUC,OVAL,BM,INTRACT 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,BLNUC,2"S IN GLXY,MBM,CNTR RGN 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,MHISB,PAIR=7752,R=F

## 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,EL,BALONG EQ RGN,PAIR=3808/MAC,R=F

## ARP 88

PGC 4728      Psc    Galaxy  
 Sep 18 2009 31"    17mmT4    EF,VS,PATCH,UB,NND,TOOK AV A WHILE TO FIND,THEN HOLDS,PAIR=MAC,R=P

## ARP 89

# ARP Peculiar Galaxies

## ARP 89

NGC 2648	Cnc	H49-3	Galaxy Sa	F,S,VLE135,PSBM
Mar 26 2006 31"	17mmT4	VB,VL,EL,BLNUC,F	OUTER ARMS,MBM,HISB CNTR,L CNTR BULGE,PAIR,R=E	
PGC 24469	Cnc		Galaxy S?	
Mar 26 2006 31"	17mmT4	PF,MS,EL,PATCH,UB,NND,PAIR=2648,R=F		

## ARP 90

NGC 5929	Boo		Galaxy Sab: pec	VF,VS,SP OF DNEB
May 14 2010 31"	17mmT4	MB,VS,BSNUC,SHISB,TOUCH=5930,NICE PAIR,R=F		
Mar 29 2006 31"	17mmT4	MBMML,R,BSNUC,CLOSE COMP=5930,BM,SBM,PAIR=PGC55095,R=G		
NGC 5930	Boo	H651-2	Galaxy Sa	PF,PS,R,NF OF DNEB
May 14 2010 31"	17mmT4	MB,ML,VFSNUC,GBM,MHISB,TOUCH=5929,NICE PAIR,R=G		
Mar 29 2006 31"	17mmT4	PB,PL,OVAL,BSNUC,CLOSE COMP=5929,BM,SBM,PAIR=PGC55095,R=G		

## ARP 91

NGC 5953	Ser	H178-2	Galaxy SAa: pec	PB,CS,P OF D NEB
May 28 2008 31"	17mmT4	PB,ML,R,BLNUC,GBMB,HISB CNTR,F* OFF EDGE,COMP=5954,E PAIR,R=G		
Apr 26 2006 31"	17mmT4	MB,MS,R,BSNUC,F* OFF ONE SIDE,MHISB CNTR,BM,PAIR=5954,R=G		
NGC 5954	Ser	H179-2	Galaxy SAB(rs)cd: pec	PB,CS,F OF D NEB
May 28 2008 31"	17mmT4	MB,PL,EL,PATCH,UB,MHISB,COMP=5953,E PAIR,R=G		
Apr 26 2006 31"	17mmT4	MF,MS,PATCH,UB,NND,MHISB,PAIR=5953,R=G		

## ARP 92

NGC 7603	Psc		Galaxy SA(rs)b: pec	F,VS,STELLAR
Sep 17 2009 31"	17mmT4	MF,PS,OVAL,VBSNUC,B* IN NUC? SN?,PAIR=PGC71041,R=F		
PGC 71041	Psc		Galaxy	
Sep 17 2009 31"	17mmT4	VF,VS,PATCH,UB,NND,PAIR=7603,R=P		

## 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,EL,BLNUC,GMBM,HISB CNTR,INTRACT=7285,R=G		
NGC 7285	Aqr		Galaxy SB(rs)a pec	NEB*1'DIST FROM7284
Sep 02 2005 31"	17mmT4	PB,ML,EL,BLNUC,GMBM,HISB CNTR,INTRACT=7284,R=G		

## ARP 94

NGC 3226	Leo	H28-2	Galaxy E2: pec	PB,CL,R,DW/3227
Apr 19 2014 36"	17mmT4	MB,ML,R,BSNUC,F GLOW OF ARMS,PAIR=3227,R=G		
Feb 25 1984 12.5"	12mm	MB,PS,BNUC,BM,R,CLOSE PAIR/3227		
Jan 30 1981 12.5"	24mm	DIF,PB,PL,EL,FNUC,B 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
Apr 19 2014 36"	17mmT4	MB,ML,OVAL-R,FLNUC,SHISB,FARMS DET,SOME SPR STR SUSP,PAIR=3226,R=G		
Feb 25 1984 12.5"	12mm	MB,MS,EL,BNUC,SBM,CLOSE PAIR/3226,NO *S		
Jan 30 1981 12.5"	24mm	DIF,PB,PL,EL,FNUC,B 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,EL,VFSNUC,PAIRS=IC4462/PGC52120,R=F		
IC 4462	Boo		Galaxy L	
Mar 29 2006 31"	17mmT4	VF,VS,EL,VFSNUC,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 Peculiar Galaxies

## ARP 96

PGC 20028 Cep Galaxy Double System  
Dec 28 2008 31" 17mmT4 DIF,VF,MS,OVAL,PATCH,NND,PAIR=PGC20066,R=P

PGC 20066 Cep Galaxy E?  
Dec 28 2008 31" 17mmT4 PF,MS,OVAL,VFSNUC,VF\* OFF EDGE,PAIR=PGC20028,R=F

## ARP 97

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

PGC 38327 UMa Galaxy SAB0- pec:  
Apr 09 2008 31" 17mmT4 PF,MS,EL,FSNUC,CLOSE COMP=PGC38325,SLT BM,R=F

## 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 p VF,S,IR  
Sep 27 2005 31" 17mmT4 PB,PL,EL,BSNUC,MHISB CNTR,E HICKSON CL,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,MHISB,E HICKSON CL,R=E

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

## ARP 100

IC 18 Cet Galaxy Sb  
Sep 16 2009 31" 17mmT4 MF,PS,EL,UB,NND,PAIR=IC19,R=F

IC 19 Cet Galaxy E  
Sep 16 2009 31" 17mmT4 MF,PS,R,BSNUC,PAIR=IC18,R=F

## ARP 101

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

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

## ARP 102

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

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

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

## ARP 103

PGC 59061 Her Galaxy Sa  
Apr 26 2006 31" 17mmT4 PF,PS,R,FLNUC,V 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,ALM \*,JUST BARELY TOUCH PGC59061/PAIRS=PGC'S,R=P

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

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## ARP 104

NGC 5216 UMa H841-2 Galaxy E0 pec PB,S,VLE  
 Apr 03 2005 31" 17mmT4 PB,ML,R,BLNUC,SBM,MHISB CNTR,R=G

NGC 5218 UMa H842-2 Galaxy SB(s)b? pec PB,PL,R,GBM  
 Apr 03 2005 31" 17mmT4 PB,ML,OVAL,UB,NND,SHISB,PAIR=5216,R=G

## ARP 105

NGC 3561A UMa Galaxy S0<sup>+</sup>:pec VF, VL, 4 OF 4  
 Apr 12 2023 36" 17mmT4 MF,MS,PATCH,LFNUC,AGC 1185,R=F  
 Apr 09 2008 31" 17mmT4 PF,MS,OVAL,PATCH,NND,PAIRS=AGC1185,R=F  
 Apr 07 2008 31" 17mmT4 MF,MS,OVAL,UB,NND,AGC,MANY OTHERS PRESENT,R=G  
 Mar 16 2009 31" 17mmT4 MB,ML,R,LB NUC,SHISB CNTR,AGC,R=G

NGC 3561B UMa Galaxy SA(r)a pec VF,PL,4TH OF 4  
 Apr 12 2023 36" 17mmT4 MF,MS,PATCH,LFNUC,TOUCH=PGC33944,AGC 1185,R=F  
 Apr 07 2008 31" 17mmT4 MF,MS,FSNUC,AGC,MANY OTHERS PRESENT,R=G  
 Apr 09 2008 31" 17mmT4 PF,MS,OVAL,FLNUC,PAIRS=AGC1185,R=F  
 Mar 16 2009 31" 17mmT4 MB,ML,R,LB NUC,HISB CNTR,AGC,R=G

## ARP 106

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

NGC 4211A Com Galaxy S0/a pec  
 Apr 07 2008 31" 17mmT4 PF,PS,EL,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,EL,FSNUC,COMP-PGC32620,R=F

## ARP 108

PGC 11491 Eri Galaxy L  
 Sep 16 2009 31" 17mmT4 VF,VS,PATCH,NND,AV HOLDS AFTER A WHILE,PAIR=PGC11493,R=P

PGC 11493 Eri Galaxy Sc  
 Sep 16 2009 31" 17mmT4 VF,VS,PATCH,NND,AV HOLDS AFTER A WHILE,PAIR=PGC11491,R=P

## 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,FSNUC,PAIRS=PGC'S,R=F

## ARP 110

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

## ARP 111

NGC 5421 CVn Non-Existent SB?  
 Mar 17 2007 31" 17mmT4 MF,MS,EL,SHISB,F\* OFF ONE SIDE,BKN 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,BSNUC,SHISB,HISB CNTR,GMBM,PAIRS=7806,PGC111,MAC,R=G

NGC 7806 Peg H856-3 Galaxy SA(rs)bc? pec EF,S,R,NF OF 2,STELL

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## ARP 112

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,BSNUC,SHISB,HISB CNTR,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 67 And Galaxy E: EF,VS,R  
 Nov 20 2003 31" 17mmT4 MB,PS,R,BLNUC,SBM,HISB CNTR,NGC 70 CL OF 12,R=G

NGC 68 And H16-5 Galaxy SA0- EF,L,3OR4\*+NEB  
 Nov 20 2003 31" 17mmT4 MB,PS,R,BLNUC,SBM,SHISB CNTR,NGC 70 CL OF 12,R=G  
 Oct 05 2002 12.5" 9mmT6 DIF,PF,PS,R,BM,MHISB,GLXY CL

NGC 69 And Galaxy SB(s)0- EF,VS,R,  
 Nov 20 2003 31" 17mmT4 PF,PS,R,BLNUC,SBM,NGC 70 CL OF 12,R=F  
 Oct 05 2002 12.5" 9mmT6 EEDIF,EEF,ES,PATCH,AV,GLXY CL

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

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

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

## 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^ PB,PL,LE,BM  
 Sep 06 2002 12.5" 9mmT6 VB,PL,R,MHISB,BM,PAIR/2276/IC455

## ARP 115

PGC 36379 Leo Galaxy  
 Mar 29 2006 31" 17mmT4 MF,MS,FSNUC,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

## ARP 116

NGC 4647 Vir H44-3 Galaxy SAB(rs)c PF,PL,LE115,NPOFDNEB  
 May 09 2010 31" 17mmT4 MB,PL,PATCHY,BLNUC,CLOSE COMP=4649,PAIR=PGC42846,R=G  
 Mar 22 2004 12.5" 12mmT4 MF,ML,OVAL,PATCH,UB,CLOSE PAIR=M60,VFSNUC,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  
 Apr 11 2015 36" 17mmT4 EB,VL,L SOFT BNUC,HISB MID,L OVAL PATCH,CLOSE COMP,R=G  
 May 09 2010 31" 17mmT4 VB,VL,OVAL,BLNUC,NUC ALM UB,SBM,HISB CNTR,CLOSE COMP=4647,PAIR=PGC42846,R=E  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 Mar 27 1982 12.5" 12mm MF,PS,EL,BNUC,LOC IN BARREN \* FIELD,PAIR/4638  
 Jun 04 1981 12.5" 24mm PB,PL,BNUC,B HALO,PAIR/4638  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Jun 10 1980 6" 24mm

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## ARP 117

IC 982 Boo Galaxy SA0+  
 Mar 26 2006 31" 17mmT4 MB,ML,OVAL,BLNUC,BM,MHISB CNTR,OTHER PAIRS/IC983,R=G

IC 983 Boo Galaxy SB(r)bc  
 Mar 26 2006 31" 17mmT4 MB,PL,EL-OVAL,BLNUC,EL NUC,FARMS SUSP,BM,MHISB CNTR,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,FLNUC,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,FLNUC,SHISB,CLOSE COMP=1143,PAIR=MAC,R=G

## ARP 119

PGC 4748 Psc Galaxy E?  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,FLNUC,PAIR=PGC4750,R=F

PGC 4750 Psc Galaxy Sdm:  
 Sep 18 2009 31" 17mmT4 MB,MS,OVAL,FLNUC,PAIR=IC4748,ANOTHER UNKNOWN GLXY(?) 2,2' PA 332,6 FROM B\* IN FOV,R=F

## ARP 120

NGC 4435 Vir H28-1 Galaxy SB(s)0^ VB,CL,R,NP OF 2  
 Mar 16 2010 31" 17mmT4 VB,VL,OVAL,BLNUC,HISB,PAIR=4438,R=E

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  
 Mar 16 2010 31" 17mmT4 VB,VL,EL,BLNUC,HISB CNTR,GRAN HALO,SPR STR SUSP,PAIR=4435,R=E

May 01 1981 12.5" 24mm DIF,PB,PL,BNUC,DARM

Mar 27 1981 12.5" 24mm

Jun 10 1980 6" 24mm

## ARP 121

PGC 3547 Cet Galaxy Sa pec sp  
 Sep 17 2009 31" 17mmT4 PF,MS,EL,FLNUC,PAIR=PGC3553,R=F

PGC 3553 Cet Galaxy S0  
 Sep 17 2009 31" 17mmT4 PF,MS,OVAL,FSNUC,\* OFF EDGE,PAIR=PGC3547,R=F

## ARP 122

NGC 6039 Her Galaxy SA0+ pec EEf,VS,R,SP OF 3LINE  
 May 18 2009 31" 17mmT4 MB,MS,OVAL,BSNUC,\*NUC,TIGHT CORE,INTRACT=6040,AGC 2151,R=G

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 TGT TO S,NND,CLOSE COMP/6040A

NGC 6040 Her Galaxy SAB(s)c VF,ES,F\*CLOSE

May 18 2009 31" 17mmT4 MB,ML,EL,NND,INTRACT=6039,AGC 2151,R=G

Mar 29 2006 31" 17mmT4 MF,MS,EL-EDGE ON,UB,NND,COMP=6040B,AGC 2151,R=F

Feb 27 1982 12.5" 16mm EDIF,VF,VS,SIM 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,EL,UB,NND,INTRACT=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 CNTR BULGING,PAIR=PGC60040,R=G

# ARP Peculiar Galaxies

## ARP 124

NGC 6361 Dra Galaxy SAb: sp VF,PS,ME,NEAR BET 2\*  
 Jun 22 2003 12.5" 9mmT6 MB,ML,EDGE ON,NND,CNTR BULGE NOT DET,PATCHY AREAS,EL,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

## ARP 125

PGC 58664 Her Galaxy Double System  
 Apr 26 2006 31" 17mmT4 MF,PS,EDGE ON WITH A SLT 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 126

PGC 7415 Psc Galaxy SBm: pec  
 Nov 17 2012 36" 17mmT4 PF,PS,PATCH,UB,NND,V CLOSE COMP=PGC7417,R=P  
 PGC 7417 Psc Galaxy SBm pec:  
 Nov 17 2012 36" 17mmT4 MF,MS,OVAL,BLNUC,MHISB,V CLOSE PAIR=PGC7415,R=F

## ARP 127

IC 1563 Cet Galaxy S0 pec sp  
 Sep 17 2009 31" 17mmT4 MF,MS,OVAL,FLNUC,F\* BET GLXY,PAIR=191,R=G  
 NGC 191 Cet H479-2 Galaxy SAB(rs)c: pec PB,PL,IE0,  
 Sep 17 2009 31" 17mmT4 MF,MS,OVAL,FLNUC,F\* BET GLXY,PAIR=IC1563,R=G

## ARP 128

MAC 0117+1442 Psc Galaxy  
 Sep 18 2009 31" 17mmT4 MF,PS,R,BSNUC,TOUCH=PGC4645,CAN JUST BARELY SEP THE TWO,R=F  
 PGC 4645 Psc Galaxy Double System  
 Sep 18 2009 31" 17mmT4 MF,PS,OVAL,UB,NND,TOUCH=MAC,CAN JUST BARELY SEP THE TWO,R=F

## ARP 129

PGC 27546 Leo Galaxy SB(r)c: pec  
 Mar 10 2007 31" 17mmT4 MF,MS,OVAL,BSNUC,V CLOSE COMP=PGC27547,CANNOT SEP,OTHERS,R=F  
 Feb 25 2004 31" 17mmT4 MF,VS,VBSNUC,SHISB,\*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 GLXY,INTRACT=PGC27546,CANNOT SEP,R=F

## ARP 130

PGC 177 Peg Galaxy S  
 Oct 06 2004 31" 17mmT4 MF,MS,FSNUC,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 131

PGC 10561 Eri Galaxy Sa  
 Sep 16 2009 31" 17mmT4 MF,MS,BLNUC,PAIR=PGC10564,R=G  
 PGC 10564 Eri Galaxy Sb  
 Sep 16 2009 31" 17mmT4 VF,PS,OVAL,PATCH,UB,NND,PAIR=PGC10561,R=F

## ARP 132

PGC 34639 Leo Galaxy  
 Mar 17 2007 31" 17mmT4 MF,PS,OVAL,PATCH,FSNUC,PAIRS=PGC/MAC'S,R=F  
 PGC 34651 Leo Galaxy E pec:  
 Mar 17 2007 31" 17mmT4 MF,PS,OVAL,PATCH,\*NUC,\* IN OR SUR NUC,PAIRS=PGC/MAC'S,R=F

## ARP 133

NGC 541 Cet Galaxy S0-: F,S,R,BM

# ARP Peculiar Galaxies

## ARP 133

NGC 541                      Cet                      Galaxy S0-:                      F,S,R,BM  
 Sep 18 2009 31"      17mmT4      MF,MS,OVAL,BLNUC,SHISB CNTR,AGC 194,R=F

## ARP 134

NGC 4472                      Vir                      M49 H7-1                      Galaxy E2                      VB,L,R,MBM,R  
 Feb 22 2020 36"      17mmT4      EB,VL,OVAL,BLNUC,HISB,GMBM,HISB CNTR,GRAN HALO,R=E  
 Apr 11 2015 36"      17mmT4      EB,VL,VL BNUC,BM,HISB MID,\* OFF NUC,OVAL PATCH MHSB,R=G  
 Mar 16 2010 31"      17mmT4      VB,VL,OVAL,BLNUC,L HALO ARMS,GRAD MBM,HISB CNTR,F\* OFF NUC,R=E  
 Mar 19 2004 12.5"      12mmT4      MESSIER MARATHON 2004  
 May 01 1981 12.5"      24mm      EB,EL,BNUC,BARMS,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,EL,BLNUC,FARMS,GMBM,SVRL \*\*S IN GLXY,COMP=1023A,R=E  
 Oct 03 1981 12.5"      12mm      MB,ML,EL,F\* OR PART OF GLXY W SIDE,LOOKS LIKE SB GLXY,VMBM,BNUC DET  
 Sep 07 1980 12.5"      24mm  
 Aug 22 1980 12.5"      24mm  
 Jul 24 1980 12.5"      24mm      BNUC,GREAT!!!  
 Jun 20 1980 12.5"      24mm      GOOD LOOKING GLXY  
 Jul 11 1980 12.5"      24mm  
 Aug 19 1980 12.5"      24mm  
 Sep 03 1980 12.5"      24mm  
 Aug 17 1982 12.5"      16mm      EDGE ON,MF,ML,LINE OF 3 \*S OFF TO E,VMBM,DIF ARMS  
 NGC 1023A                      Per                      Galaxy IB?  
 Feb 04 2005 31"      17mmT4      VF,VS,PATCH,UB,COMP=1023,IN ARMS OF 1023,R=P

## 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,MHSB,BLNUC AREA,B\*\* IN FOV,R=G  
 May 06 1981 12.5"      24mm      DIF,VF,VS,F HALO,JUST W OF A NICE DBL \*

## 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,BLNUC,SHISB,GBM,PAIRS=2911,PGC27175,R=G

## ARP 138

NGC 4015                      Com                      Galaxy Double System                      F,VS,E,MBM  
 Mar 17 2009 31"      17mmT4      VB,VL,R,BLNUC,INTRACT=PGC37702,SBM,MHSB CNTR,R=G  
 Dec 28 2008 31"      17mmT4      MB,MS,R,BLNUC,MHSB CNTR,BM,R=G  
 PGC 37702                      Com                      Galaxy S?  
 Mar 17 2009 31"      17mmT4      VF,VS,EL TO EDGE ON,PATCH,UB,VF ,EL JET STICKING OUT OF N4015,R=P

## ARP 139

PGC 45463                      Com                      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

## 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,BLNUC,HISB,HALO SUR NUC,PAIR=275,GMBM,R=G  
 Sep 24 1981 12.5"      16mm      PF,VS,INTRACT W/ 275,NUC BTR 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,MHSB,PAIR=274,R=G

# ARP Peculiar Galaxies

## ARP 140

NGC 275      Cet      Galaxy SB(rs)cd pec      VF,S,R,SF OF 2  
 Sep 24 1981 12.5" 16mm      INTRACT W/ 274,DIF,VF,VS,NND,SLT FTR THAN 274

## ARP 141

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

## ARP 142

MAC 0937+0246      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,FLNUC,COMP=2937,PAIR=MAC,R=G

NGC 2937      Hya      Galaxy E      F,S,LIKE A NEB\*  
 Mar 29 2006 31" 17mmT4      MF,PS,BSNUC,HISB CNTR,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,BLNUC,V CLOSE PAIR,MHISB CNTR,PAIR=2445,R=G

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

## ARP 144

NGC 7828      Cet      Galaxy Ring B      EF,S,E130,SBMN,\*15SF  
 Sep 16 2009 31" 17mmT4      PF,PS,EL,INTRACT=7829,F\* OFF EDGE,CANNOT SEP,BOTH APPEAR AS ELR=F

NGC 7829      Cet      Galaxy Ring A      EF,ES,R,(NEB),F OF 2  
 Sep 16 2009 31" 17mmT4      PF,PS,EL,INTRACT=7828,F\* OFF EDGE,CANNOT SEP,BOTH APPEAR AS ELR=F

## ARP 145

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

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

## ARP 146

PGC 509      Cet      Galaxy Ring B  
 Sep 16 2009 31" 17mmT4      EF,VS,PATCH,CANNOT SEP,NOT DET IN 9MM,AV,PAIR=PGC510,R=P

PGC 510      Cet      Galaxy Ring A  
 Sep 16 2009 31" 17mmT4      EF,VS,PATCH,CANNOT SEP,NOT DET IN 9MM,AV,PAIR=PGC509,R=P

## ARP 147

IC 298      Cet      Galaxy Ring A  
 Nov 17 2012 36" 17mmT4      PF,MS,EL,TOUCH=IC298A,BOTH APPEAR AS ONE ,EL GLXY WITH VF AREAS IN BOTH ENDS,R=PF

IC 298A      Cet      Galaxy Ring B  
 Nov 17 2012 36" 17mmT4      PF,MS,EL,TOUCH=IC298,BOTH APPEAR AS ONE ,EL GLXY WITH VF AREAS IN BOTH ENDS,R=PF

## ARP 148

MAC 1103+4050      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,EL-EDGE ON,BTR ALONG AXIS,BM,PAIR=MAC,R=F

## ARP 149

IC 803      Com      Galaxy S  
 Mar 17 2009 31" 17mmT4      VF,VS,OVAL,PATCH,NND,CAN BARELY SEP WITH MAC1239+1635C,OTHERS,R=F

MAC 1239+1635      Com      Galaxy  
 Mar 17 2009 31" 17mmT4      VF,VS,BSNUC,CAN BARELY SEP WITH IC803,OTHERS,R=F

# ARP Peculiar Galaxies

## ARP 150

MAC 2319+0930	Peg		Galaxy	
Sep 27 2005 31"	17mmT4	VF,VS,PATCH,UB,NND,V	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,V	CLOSE COMP,PAIR=MAC,PGC'S,SHISB,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,EL,PATCH,UB,NND,VF*	ON SIDE,PAIR=7609/MAC/PGC,R=P	

## ARP 151

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

## ARP 152

NGC 4486	Vir	M87	Galaxy E+0-1 pec	VB,VL,R,MBM,3RD OF 3
Apr 11 2015 36"	17mmT4	EB,EL,OVAL-R,VBLNUC,GETS BIN MID,HISB CNTR,F HALO SUR NUC,NO ARM STR,R=GE		
May 09 2010 31"	17mmT4	EB,VL,OVAL-R,BLNUC,L GRAN ARMS,GMBM,HISB CNTR,L HALO,R=E		
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
May 01 1981 12.5"	24mm	EB,EL,BNUC,1 OF 3 COMP		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980 6"	24mm			

## ARP 153

NGC 5128	Cen		Galaxy S0 pec	VB,VL,VME122,BIFID
Apr 16 2009 31"	31mmT5	EDIF,EF,EL,CAN ONLY SUSP,L AREA OF F BG HAZE,SUSP,R=P		
Mar 20 2009 31"	17mmT4	VDIF,VF,ML,OVAL,PATCH,6 DEG ABOVE HRZN,* IN GLXY,F GLOW DET,R=P		

## ARP 154

NGC 1316	For		Galaxy SAB(s)0 <sup>+</sup> pec	VB,CL,VLE,VSVMBMN
Oct 12 2012 36"	17mmT4	EB,EL-OVAL,VBLNUC,HISB,GRAN HALO,VMBM,PAIR=1318,R=G		

## 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,MHISB,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 ELR=P		

## ARP 156

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

## ARP 157

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

## ARP 158

NGC 523	And	H170-3	Galaxy Pec	DNEB,VF,VS,DIST30"
Sep 19 2020 36"	17mmT4	MB,ML,EL,EDGE ON,UB,NND,2"S BOTH ENDS IN GLXY,IRR IN SHAPE,R=FG		
Aug 10 2002 12.5"	9mmT6	DIF,MF,PL,EL,SBM,MHISB		

## ARP 159

NGC 4747	Com	H344-2	Galaxy SBcd? sp pec	F,PL,LE
Mar 17 2018 36"	17mmT4	MB,ML,EL,UB,NND,R=G		

# ARP Peculiar Galaxies

## ARP 159

NGC 4747 Com H344-2 Galaxy SBcd? sp pec F,PL,LE  
 Mar 20 2009 31" 17mmT4 MB,PL,EL,ALM UB,L FT CNTR RGN W/FTR EXTENSIONS BOTH ENDS,R=G

## 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,MHISB,GMBM,R=G

## ARP 161

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

## ARP 162

NGC 3414 LMi H362-2 Galaxy S0 pec B,PL,R,MBM  
 Feb 21 2020 36" 17mmT4 MB,ML,OVAL,BLNUC,GRAN HALO SUR NUC,R=G,TIME12:21AM  
 Feb 15 2004 31" 17mmT4 VB,VL,EL,BLNUC,HISB,PAIRS=3418/MAC,R=E  
 Oct 22 1982 12.5" 16mm MF,MS,BS\*NUC,R,SBM  
 Dec 03 1980 12.5" 24mm

## ARP 163

NGC 4670 Com 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

## ARP 164

NGC 455 Psc Galaxy S? F,VS,ALMSTELL  
 Sep 18 2009 31" 17mmT4 MB,MS,OVAL,BLNUC,MHISB CNTR,PAIR=PGC4583,R=G

## ARP 165

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

## 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 INTRACT WITH 751,R=G  
 Aug 25 1982 12.5" 16mm PAIR/736  
 Sep 23 1981 12.5" 16mm DIF,PF,PS,EL,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 INTRACT WITH 750,R=G

## ARP 167

NGC 2672 Cnc H48-2 Galaxy E1-2 PB,PL,IR,MBM  
 Mar 09 2021 36" 17mmT4 PB,PL,R,BLNUC,COMP=N2673 IN HALO,MINI M51,GMBM,GRAN HALO,F\*IN OUTER HALO,R=GE  
 Mar 26 2006 31" 17mmT4 VB,VL,R,BLNUC,F\* OFF EDGE,CLOSE COMP=2673,MHISB ARMS,BM,HISB MID,MINI M51,R=E  
 Feb 21 1984 12.5" 12mm SAME,ANOTHER VF\* TO E 1 GLXY DIA,SBM,DIF,MF,PS,EL,SN?  
 Oct 24 1981 12.5" 16mm EDIF,PF,VS,F\*N 1 GLXY DIA,SMWHT BM  
 Dec 03 1980 12.5" 24mm  
 NGC 2673 Cnc Galaxy E0 pec VF,VS,CLOSE F2672  
 Mar 09 2021 36" 17mmT4 PB,ML,OVAL-R,BSNUC,HISB,COMP=N2672 IN HALO,MINI M51,GRAN HALO,R=FG  
 Mar 26 2006 31" 17mmT4 MF,MS,BSNUC,CLOSE COMP=2672,MINI M51,R=G

## ARP 168

NGC 221 And M32 Galaxy cE2 VVB,L,R,PSMBMN  
 Sep 14 2012 36" 17mmT4 EB,EL,OVAL-R,BSNUC,PATCHY AREAS IN L HALO,VMBM,HISB,R=E  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004

# ARP Peculiar Galaxies

## ARP 168

NGC 221	And	M32	Galaxy cE2	VVB,L,R,PSMBMN
Aug 31 1984	12.5"	12mm	VB,MS,F * NE SVRL GLXY 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 S TRI OF *S,COMP 7237,SEEN WITH AV	
NGC 7237	Peg		Galaxy SA0-	VF,S,STELLAR
Sep 18 1982	12.5"	16mm	EDIF,EF,ES,COMP 7236,AV,PATCH	

## ARP 170

NGC 7578A	Peg	H182-3	Galaxy S0 <sup>^</sup> pec	VF,AM VS ST
Sep 27 2005	31"	17mmT4	MB,PS,EL,FLNUC,CLOSE COMP=7578B,R=F	
NGC 7578B	Peg	H182-3	Galaxy E1:	
Sep 27 2005	31"	17mmT4	PF,PS,UB,SHISB,F* ON EDGE,CLOSE COMP=7578A/PGC,R=F	
PGC 70936	Peg		Galaxy S0?	
Sep 27 2005	31"	17mmT4	VF,VS,F* IN GLXY,CLOSE COMP=7578B,R=P	
Sep 27 2005	31"	17mmT4	VF,VS,F* IN GLXY,CLOSE COMP=7578B,R=P	

## 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,FLNUC,PAIR=IC1042,R=G	

## ARP 172

IC 1178	Her		Galaxy S0- pec?	
Mar 29 2006	31"	17mmT4	MF,MS,EL-OVAL,FLNUC,INTRACT=IC1181,AGC 2151,R=F	
IC 1181	Her		Galaxy S0- pec?	
Mar 29 2006	31"	17mmT4	PF,PS,EL-OVAL,FSNUC,INTRACT=IC1178,AGC 2151,R=F	

## ARP 173

PGC 53053	Boo		Galaxy S0	
Mar 29 2006	31"	17mmT4	MF,PS,EL,FLNUC,PAIRS=PGC'S,R=F	
PGC 53054	Boo		Galaxy Sab	
Mar 29 2006	31"	17mmT4	VF,VS,OVAL,FSNUC,PAIRS=PGC'S,R=P	

## ARP 174

MAC 0958+2852	Leo		Galaxy	
Mar 20 2007	31"	17mmT4	MF,PS,R,*NUC,V CLOSE COMP=3068,R=F	
Mar 10 2007	31"	17mmT4	PF,PS,PATCH,UB,VFSNUC,PAIRS=3608/MAC,R=F	
NGC 3068	Leo	H293-3	Galaxy S0-: pec	EEF,ES,STELLAR,( )

# ARP Peculiar Galaxies

## ARP 174

NGC 3068 Leo H293-3 Galaxy S0-: pec EEF,ES,STELLAR,(  
 Mar 20 2007 31" 17mmT4 MB,MS,R,BLNUC,V CLOSE COMP=MAC,SHISB CNTR,R=F

## ARP 175

IC 3481 Vir Galaxy SAB0-: pec  
 May 18 2007 31" 17mmT4 MF,MS,OVAL-R,BLNUC,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 H191-2 Galaxy S0/a pec PB,PL,IR  
 May 05 2021 36" 17mmT4 PB,PL,EL-OVAL,BLNUC,SHISB,INTRACT=N4933B,R=G

May 18 2007 31" 17mmT4 PB,PL,EL,BLNUC,FARMS,PATCHY AREAS,TOUCH,HISB CNTR,CLOSE COMP=4933B,R=G

NGC 4933B Vir Galaxy E pec

May 05 2021 36" 17mmT4 MB,ML,EL-OVAL,SBMUC,SHISB,INTRACT=N4933A,R=G

May 18 2007 31" 17mmT4 MB,ML,EL,BLNUC,PATCHY AREAS,ARMS,TOUCH,HISB CNTR,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,VFSNUC,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  
 May 13 2021 36" 17mmT4 VF,VS,EL,UB,NND,PAIRS=N5614/N5615/N5609,R=PF

Mar 29 2006 31" 17mmT4 MF,PS,OVAL,FSNUC,PAIRS=5609/5615/5614,R=F

NGC 5614 Boo H420-2 Galaxy SA(r)ab pec PB,S,R,SMBM

May 13 2021 36" 17mmT4 VB,ML,R,BLNUC,HISB CNTR,GRAN HALO,INTRACT=N5615,CAN SEP,PAIRS=N5613/N5609,R=G

Mar 29 2006 31" 17mmT4 PB,PL,R,BLNUC,HISB CNTR,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\*)

May 13 2021 36" 17mmT4 EF,ES,EDGE ON,NND,INTRACT=N5614,CAN SEP,JUST BARELY TOUCH,PAIRS=N5613/N5609,R=P

Mar 29 2006 31" 17mmT4 VF,VS,EL,PATCH,UB,NND,COMP=5614,APP AS BUMP ALONG SIDE 5614,PAIRS=5613/5809,F

## ARP 179

MAC 0302-0441 Eri Galaxy  
 Sep 16 2009 31" 17mmT4 PF,PS,OVAL,UB,NND,ARP 179,R=F

## ARP 180

PGC 16261 Eri Galaxy S  
 Nov 17 2012 36" 17mmT4 MF,MS,EL-OVAL,FLNUC,SHISB,R=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,SMWHT 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

# ARP Peculiar Galaxies

## ARP 182

NGC 7674 Peg Galaxy SA(r)bc pec F,CS,GBM,P OF 2  
 Sep 27 2005 31" 17mmT4 MB,ML,R,BSNUC,V CLOSE COMP,MHISB CNTR,SUDLY 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,BLNUC,SHISB CNTR,PAIR=PGC'S/7674,R=G

PGC 71505 Peg Galaxy S?  
 Sep 27 2005 31" 17mmT4 PF,PS,OVAL,VFSNUC,V 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  
 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 GLXY,CL 1 OF 8,R=G  
 Dec 21 1981 12.5" 16mm DIF,VF,PS,PATCHY,SBM,F\* JUST BESIDE NUC,LINE OF 2F\*S TO S  
 Oct 03 1981 12.5" 16mm MF,PL,F\*E SIDE,NNS,PATCHY,SLT OVAL,F\* S PART OF GLXY  
 Sep 18 1980 12.5" 24mm

## 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,FSNUC,DUST SUSP,FARMS,R=E  
 Aug 13 1982 12.5" 16mm PF,PS,DIF,\*NUC,OVAL,SBM,NO \*S

## ARP 186

NGC 1614 Eri Galaxy SB(s)c pec PF,S,R,LBM  
 Nov 17 2012 36" 17mmT4 MB,MS,OVAL,BLNUC,MHISB,THIN IRR HALO SUR NUC,R=FG

## ARP 187

PGC 16691 Eri Galaxy Radio galaxy  
 Nov 17 2012 36" 17mmT4 MF,PS,OVAL,UB,NND,R=F

## ARP 188

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

## ARP 189

NGC 4651 Com 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

## ARP 190

PGC 10755 Ari Galaxy S  
 Sep 25 2003 31" 17mmT4 VDIF,VF,MS,PATCH,UB,NND,PAIR=10757,R=P

PGC 10757 Ari Galaxy compact  
 Sep 25 2003 31" 17mmT4 PF,PS,FSNUC,PAIR=10755,R=F

## ARP 191

PGC 33670 Leo Galaxy SAB0- pec  
 Mar 17 2007 31" 17mmT4 MF,MS,R,VBSNUC,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,FSNUC,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,BLNUC,MHISB,PATCHY,BH2 AREAS,ARM STR,PAIR=PGC31558,R=G

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# ARP Peculiar Galaxies

## ARP 193

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

## ARP 194

MAC 1157+3622 UMa Galaxy  
 Apr 09 2008 31" 17mmT4 EF,VS,UB,INTRACT=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,INTRACT=MAC,CAN JUST BARELY SEP,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,INTRACT=MAC,CAN JUST BARELY SEP TWO,R=F

## ARP 196

PGC 46036 Com 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 Com 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

## ARP 197

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

## ARP 198

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

## 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,FLNUC,VF\* IN GLXY,INTRACT=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,INTRACT=5544,R=G

## ARP 200

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

## ARP 201

PGC 1503 Psc Galaxy Disrupted  
 Sep 16 2009 31" 17mmT4 PF,VS,PATCH,PAIR=PGC1504,CAN JUST BARELY SEP,R=P  
 PGC 1504 Psc Galaxy L  
 Sep 16 2009 31" 17mmT4 PF,VS,PATCH,PAIR=PGC1503,CAN JUST BARELY SEP,R=P

## 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,SLT CNTR 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,EL,PATCH,UB,NND,AV BARELY HOLDS,R=P

# ARP Peculiar Galaxies

## ARP 204

PGC 46729 Cam Galaxy Double System  
Apr 06 2008 31" 17mmT4 EFID,EF,MS,EL,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 I0 B,PL,ME67,GBM  
Apr 07 2008 31" 17mmT4 VF,VL,EL,BLNUC,HISB,GOOD DEF,DUST AREA DET,CNTR BULGE,BKN,R=E

Mar 15 1985 12.5" 16mm DIF,VF,MS,EDGE ON,UB,SLT EL,NND,BET A TRI OF VF\*S

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,SLT 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,EL,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,EL,VBSNUC 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+2032 Her Galaxy  
Apr 26 2006 31" 17mmT4 MB,MS,NND,MHISB,INTRACT=6052,ODD SHAPE,PATCHY,OVAL WITH BUMPS,LOBS,R=G

## 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,MHISB,TAD POLE SHAPE,F\*IN EDGE,DUST LANE SUSP,R=G

Oct 03 1981 12.5" 16mm MF,PS,EL,S OF B\*,HISB,NND

Sep 18 1980 12.5" 24mm

## 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,MHISB,PATCHY,UB

Jul 07 1981 12.5" 16mm DIF,PF,ES,F HALO,3\*S 11 MAG SUR GLXY

Sep 10 1980 12.5" 24mm F,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,SNUC,UB HALO,PAIR=PGC14531,R=G

# ARP Peculiar Galaxies

## ARP 214

NGC 3718	UMa	H221-1	Galaxy SB(s)a pec	PB,VL,R,VGLBM
Feb 23 2006	31"	17mmT4	VB,EF,BLNUC,F* CLOSE TO NUC IN GLXY,PATCHY,ARMS SUSP,H2 RGN,PAIR=MAC,R=E	
Mar 15 1985	12.5"	16mm	PF,VL,SPR ARMS DET,B BAR,VR,FACE ON,2B**S TO S,PAIR/3729	
Oct 22 1982	12.5"	24mm	MB,ML,2F**S IN S PART,OVAL,NND,PAIR/3729	

## 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,*NUC,16MM-SAME	

## ARP 216

NGC 7679	Psc		Galaxy SB0 pec:	PB,S,R,MBMN,STELL
Sep 17 2009	31"	17mmT4	MB,MS,R,BNUC,HISB CNTR,PAIRS=7682/MAC,R=G	
Sep 27 1981	12.5"	16mm	MF,VS,BNUC,F* NE AND W SVRL GLXY DIA,SBM	
NGC 7682	Psc		Galaxy SB(r)ab	EF,*14P13.7S,LN
Sep 17 2009	31"	17mmT4	MF,MS,EL,FLNUC,PAIRS=7679/MAC,R=F	

## 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 219

PGC 13489	Eri		Galaxy SB	
Sep 12 2012	36"	17mmT4	PF,MS,OVAL,PATCH,UB,NND,COULD NOT DET PAIR,PAIR=MAC/PGC 13496,R=F	

## ARP 220

IC 4554	Ser		Galaxy S?	
May 28 2008	31"	17mmT4	MB,ML,PATCH,UB,NND,SHISB,PAIRS=MAC'S,R=G	
Apr 26 2006	31"	17mmT4	MF,MS,OVAL,PATCH,UB,NND,SHISB,PAIRS=MAC'S,R=F	

## ARP 221

PGC 27333	Hya		Galaxy S	
Mar 18 2007	31"	17mmT4	MB,ML,R,FLNUC,MHISB CNTR,PAIRS=MAC'S,R=F	

## ARP 222

NGC 7727	Aqr	H111-1	Galaxy SAB(s)a pec	PB,PL,IR,MBM
Oct 07 2010	31"	17mmT4	PB,PL,OVAL,BLNUC,GRAN NUC,HISB CNTR,GBM,R=G	
Jul 10 1981	12.5"	16mm	MB,ML,VMBM,DIF HALO SUR GLXY	
Sep 09 1980	12.5"	24mm	BNUC,SPR ARM STR DET	

## ARP 223

NGC 7585	Aqr	H236-2	Galaxy (R')SA(s)0+ pec	PB,PS,IR,GBM
Nov 11 2009	31"	17mmT4	VB,VL,OVAL,VBSNUC,MHISB,TIGHT NUC,GRADUALLY BM,R=E	
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,BLNUC,MHISB,SBM,HISB CNTR,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 GLXY DIA,ARMS MORE PRODOMENANT	

# ARP Peculiar Galaxies

## ARP 225

NGC 2655	Cam	H288-1	Galaxy SAB(s)0/a	VB,CL,LE90,GSVMBM
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 GLXY	
Sep 10 1980	12.5"	16mm		

## ARP 227

NGC 470	Psc	H250-3	Galaxy SA(rs)b	PB,L,IR
Sep 19 2020	36"	17mmT4	EB,EL,R,FSNUC,SPR STR SUDP,BKN,GRAN,PAIR=474,R=GE	
Sep 24 1981	12.5"	16mm	VDIF,MF,PS,PATCHY-OVAL,F*S TO N&S ON EDGE,F*S TO E,GLXY TO E BY B*,PAIR/474	
Sep 07 1980	12.5"	24mm	EF,AV,COMP SUSP	
NGC 474	Psc	H251-3	Galaxy SA(s)0 <sup>^</sup>	PB,S,SMBM,F OF 2
Sep 19 2020	36"	17mmT4	VB,VL,R,BLNUC,MHISB,VFL HALO AROUNC NUC,PAIR=470,R=G	
Sep 24 1981	12.5"	16mm	MF,VS,DNUC,SBM,LINE OF 3*S TO E,PAIR/470 AND ANOTHER	

## ARP 228

IC 162	Psc		Galaxy S0	
Nov 17 2012	36"	17mmT4	MF,MS,R,FLNUC,SHISB CNTR,PAIRS=OTHERS,R=F	
PGC 6653	Psc		Galaxy Sb	
Nov 17 2012	36"	17mmT4	PF,PS,PATCH,UB,PAIRS=OTHERS,R=P	

## ARP 229

NGC 507	Psc	H159-3	Galaxy SA(r)0 <sup>^</sup>	VF,PL,R,BM,S OF 2
Sep 12 2012	36"	17mmT4	PB,PL,R,BLNUC,L HALO,HISB CNTR,PAIRS=OTHERS,NICE FOV,R=G	
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 12 2012	36"	17mmT4	MB,ML,OVAL,BSNUC,HISB CNTR,PAIRS=OTHERS,NICE FOV,R=G	
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,B AREA OUTER ARM (*),R=F	

## ARP 231

IC 1575A	Cet		Galaxy S	
Sep 17 2009	31"	17mmT4	MF,MS,OVAL,FLNUC,SHISB,PAIR=IC1575B,CANNOT SEP,ON TOP OF EACH OTHER,APPEAR AS ONE GLXY,R=F	
IC 1575B	Cet		Galaxy S	
Sep 17 2009	31"	17mmT4	MF,MS,OVAL,FLNUC,SHISB,PAIR=IC1575A,CANNOT SEP,ON TOP OF EACH OTHER,APPEAR AS ONE GLXY,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,BLNUC,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,F HALO	
Dec 03 1980	12.5"	24mm		

## ARP 233

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

## ARP 234

# ARP Peculiar Galaxies

## ARP 234

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

## 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 236

IC 1623 Cet Galaxy Irr  
 Sep 18 2009 31" 17mmT4 PB,ML,OVAL,HISB,ON TOP OF IC1623A,APPEAR AS ONE,TOUCH=IC1623B,PAIRS=IC1623B,IC1623A,R=G

IC 1623A Cet Galaxy S pec:  
 Sep 18 2009 31" 17mmT4 PB,ML,OVAL,HISB,ON TOP OF IC1623,APPEAR AS ONE,TOUCH=IC1623B,PAIRS=IC1623B,IC1623,R=G

IC 1623B Cet Galaxy L  
 Sep 18 2009 31" 17mmT4 MB,ML,OVAL,PATCH,UB,NND,TOUCH=IC1623A,PAIRS=IC1623A/IC1623,R=G

## 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,VFSNUC,INTRACT,CANNOT SEP,KEEP B\* OUT OF FOV,R=F

PGC 26844 Leo Galaxy S?  
 Mar 10 2007 31" 17mmT4 MF,MS,OVAL,VFSNUC,INTRACT,CANNOT SEP,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,VFSNUC,R=P

## ARP 239

NGC 5278 UMa H798-2 Galaxy SA(s)b? pec PF,R,VS NEB40"F,\*N  
 Apr 03 2005 31" 17mmT4 MF,MS,OVAL,UB,NND,CLOSE COMP=5279,PAIRS=PGC'S,R=F

NGC 5279 UMa Galaxy SB(s)a pec F,VS,F OF 2  
 Apr 03 2005 31" 17mmT4 PF,PS,OVAL,UB,NND,SHISB,CLOSE COMP=5278,PAIRS=PGC'S,R=F

## 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,BKN 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,F WISP OF ARMS OUTER EDGE,HOOK SHAPE,R=E

## ARP 241

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

## ARP 242

NGC 4676A Com H326-2 Galaxy S0 pec? VF,PME,(BIN)  
 Mar 20 2009 31" 17mmT4 MB,ML,EDGE ON,BSNUC,NUC AT END OF GLXY,INTRACT=4676B,R=G

NGC 4676B Com H326-2 Galaxy SB(s)0/a pec VF,PME,(BIN)  
 Mar 20 2009 31" 17mmT4 MB,MS,OVAL,FLNUC,INTRACT=4676A,NUC NOT CNTR,F PATCH OFF ONE SIDE,R=G

## ARP 243

NGC 2623 Cnc Galaxy Pec VF,VS,R,BM,R  
 Mar 26 2006 31" 17mmT4 MB,ML,OVAL,VBLNUC,F HALO SUR NUC,MHISB CNTR,V R NUC RGN,R=E

## ARP 244

NGC 4038 Crv H28-4 Galaxy SB(s)m pec PB,CL,R,VGBM

# ARP Peculiar Galaxies

## ARP 244

NGC 4038 Crv H28-4 Galaxy SB(s)m pec PB,CL,R,VGBM  
 Mar 16 2009 31" 17mmT4 VB,VL,EL,PATCHY AREAS IN GLXY,SHISB,NND,DARK AREA SPLITS TWO,INTRACT=4039,R=G  
 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,EL,BOTH NUC OF BOTH GLXY SEEN,RING TAIL GLXY,ARMS DET,PAIR/4039

NGC 4039 Crv H28-4 Galaxy SA(s)m pec PF,PL  
 Mar 16 2009 31" 17mmT4 VB,VL,EL,SHISB,UB,NND,DARK AREA SPLITS THE TWO,COMP=4038,R=G  
 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 GLXY

## ARP 245

NGC 2992 Hya H277-3 Galaxy Sa pec CF,S,R,BM,STEL,P OF2  
 Mar 29 2006 31" 17mmT4 PB,PL,EL,SOFT LNUC,SHISB CNTR,R=G

NGC 2993 Hya H278-3 Galaxy Sa pec CF,S,R,BM,STEL,F OF2  
 Mar 29 2006 31" 17mmT4 MB,ML,OVAL,BSNUC,BM,R=G

## ARP 246

NGC 7837 Psc Galaxy Sb EF,P OF DNEB  
 Sep 16 2009 31" 17mmT4 MF,MS,EL,FSNUC,CAN JUST SEP THE TWO,PAIR=7838,R=F

NGC 7838 Psc Galaxy Sb EF,F OF DNEB  
 Sep 16 2009 31" 17mmT4 MF,MS,EL,FSNUC,CAN JUST SEP THE TWO,PAIR=7838,R=F

## ARP 247

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

IC 2339 Cnc Galaxy SAB(s)cd pec  
 Mar 26 2006 31" 17mmT4 MB,MS,EL,BLNUC,MHISB,COMP=IC2338,SVRL 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,MHISB,PAIRS=PGC36723/PGC36742,R=G

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,EL,FSNUC,VF\* IN GLXY,R=F

## ARP 250

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

## ARP 251

ARP 251B Cet Galaxy  
 Sep 17 2009 31" 17mmT4 VF,PS,OVAL,UB,NND,B\* CLOSE BY,WASHES OUT GRP,PAIR=PGC3163/ARP251,R=P

ARP 251C Cet Galaxy  
 Sep 17 2009 31" 17mmT4 EF,VS,CANNOT DETECT,LOC GOOD,B\* CLOSE BY,WASHES OUT GRP,PAIR=PGC3163/ARP251,R=P

PGC 3163 Cet Galaxy E?  
 Sep 17 2009 31" 17mmT4 VF,PS,OVAL,UB,NND,B\* CLOSE BY,WASHES OUT GRP,PAIR=ARP251,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

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## ARP 252

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

## ARP 253

PGC 27817 Sex Galaxy SB(s)dm? sp  
Dec 28 2008 31" 17mmT4 VF,PL,EDGE ON,PATCH,UB,INTRACT=PGC27828,TOUCH END TO END,NND,R=F

PGC 27828 Sex Galaxy SB(s)m? sp  
Dec 28 2008 31" 17mmT4 VF,PL,EDGE ON,PATCH,UB,INTRACT=PGC27828,TOUCH END TO END,NND,R=F

## ARP 254

NGC 5917 Lib Galaxy S<sub>b</sub> pec? EF,VS,PSBM  
Apr 26 2006 31" 17mmT4 MB,ML,OVAL,FLNUC,F\* OFF ONE SIDE,MHISB CNTR,PAIRS=PGC/MAC,R=G

PGC 54817 Lib Galaxy S<sub>0</sub> pec  
Apr 26 2006 31" 17mmT4 MF,ML,PATCH,FLNUC,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 256

PGC 1221 Cet Galaxy SB(s)c pec  
Sep 16 2009 31" 17mmT4 PF,MS,EDGE ON WITH BEND IN ONE SIDE,UB,NND,F\* OFF TIP,PAIR=PGC1224,R=F

PGC 1224 Cet Galaxy SB(s)b pec?  
Sep 16 2009 31" 17mmT4 PF,PS,R,FLNUC,PAIR=PGC1221,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,V 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,V CLOSE COMP,R=F

## ARP 258

MAC 0239+1822 Ari Galaxy  
Oct 25 2006 31" 17mmT4 EF,VS,PATCH,AV,COMP=MAC,R=P

MAC 0239+1822 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,ALM \*,BTR 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 SEP,R=P

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

PGC 10046 Ari Galaxy SB<sub>0</sub>/a: sp  
Oct 25 2006 31" 17mmT4 PF,MS,EL,FLNUC,BTEST MEMBER OF HICKSON 18,R=F  
Oct 20 2006 31" 17mmT4 MF,MS,EL,BLNUC,BTEST MEMBER OF HICKSON 18,OTHERS PRESENT,R=F

## ARP 259

NGC 1741 Eri Galaxy Pec VF,VS,VSEXCENT PTINV  
Dec 28 2008 31" 17mmT4 PF,EL,NND,INTRACT=PGC16573,CAN BARELY SEP W/AV,TGT IRR SHAPE,R=F

PGC 16570 Eri Galaxy SB(s)m pec sp  
Dec 28 2008 31" 17mmT4 VF,EDGE ON,HICKSON GRP,UB,NND,R=F

PGC 16571 Eri Galaxy S?  
Dec 28 2008 31" 17mmT4 DID NOT DETECT,LOC GOOD

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## ARP 259

PGC 16573 Eri Galaxy SB(s)m pec:  
Dec 28 2008 31" 17mmT4 PF,EL,BLNUC,INTRACT=1741,CAN BARELY SEP W/AV,TGT IRR SHAPE,R=F

## ARP 260

PGC 39014 Com 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

## 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  
Apr 26 2006 31" 17mmT4 VF,VS,OVAL,PATCH,UB,NND,F\* IN EDGE OF GLXY,R=F

## ARP 262

PGC 72977 Peg Galaxy IB(s)m  
Sep 05 2007 31" 17mmT4 VF,ML,EL,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,EL,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,BH2 REG DET,B\* IN GLXY,MHISB 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 GLXY,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 268

PGC 23324 UMa Galaxy Dwarf Irr  
Dec 28 2008 31" 17mmT4 VDIF,EF,ML,NND,IRR,3\*IN TRI IN CNTR OF VF NEB PATCH,BTR PATCH BY 1\* IN TRI,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,INTRACT WITH 4490  
Mar 27 1981 12.5" 24mm

NGC 4490 CVn H198-1 Galaxy SB(s)d pec VB,VL,ME130,R,SF OF2  
Jan 28 1982 12.5" 16mm DIF,PB,PL,EL,BNUC,GBM,INTRACT 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,BLNUC,HISB,GMBM,INTRACT 3396,R=E  
Jan 08 2003 12.5" 9mmT6 MB,PL,BNUC,OVAL,BSNUC,HISB,COMP=3396

# ARP Peculiar Galaxies

## ARP 270

NGC 3395 LMi H116-1 Galaxy SAB(rs)cd pec: CB,PS,ILE,1ST OF 2  
 Oct 22 1982 12.5" 24mm DIF,VF,MS,EL2 PARTS OR INTRACT GLXY,N PART \*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,EL,BLNUC,HISB,GMBM,INTRACT 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 5426 Vir H309-2 Galaxy SA(s)c pec PF,CL,R,GMBM,SP OF 2  
 Apr 26 2006 31" 17mmT4 MF,MS,EL,FLNUC,PATCHY,IRR IN SHAPE,F HALO,PAIR=5427,R=G

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

## ARP 272

IC 1179 Her Galaxy SB(rs)cd  
 May 19 2009 31" 17mmT4 MF,ML,OVAL,PATCH,UB,NND,L OVAL,COMP=6050,CANNOT SEP,AGC 2151,R=F  
 Mar 29 2006 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,INTRACT=6050,AGC 2151,APPEAR AS ONE,R=F

NGC 6050 Her Galaxy SA(s)c EEF,S,R,VDIFFIC  
 May 19 2009 31" 17mmT4 MF,ML,OVAL,PATCH,UB,NND,L OVAL,COMP=IC1179,CANNOT SEP,AGC 2151,R=F  
 Mar 29 2006 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,INTRACT=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,EL,BSNUC,2F\*S BOTH ENDS,SBM,MHISB CNTR,PAIR=PGC8970,R=G

PGC 8970 And Galaxy SB  
 Oct 25 2006 31" 17mmT4 MB,ML,EDGE ON,PATCH,UB,NND,F\* BET GLXY,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,SMWHT BM,PATCHY,INTRACT=5679A,R=F

NGC 5679A Vir Galaxy Sc  
 May 18 2007 31" 17mmT4 VF,VS,PATCH,UB,NND,2VF\*S EXIST CLOSE TGT BET THE 2,INTRACT=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 0925-1159 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\*4F  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,2VF\*S IN GLXY,B\* OTHER SIDE,COMP=MAC,R=F

## ARP 276

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

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

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## ARP 278

NGC 7253A Peg Galaxy SB? VF,PE  
 Oct 20 2006 31" 17mmT4 MF,PL,EL,FLNUC,INTRACT=7253B,SHISB CNTR,R=G  
 Sep 18 1982 12.5" 16mm VDIF,PF,MS,2F\*S AT EACH END,INTRACT PAIR(7253B),PATCH,OVAL

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

## ARP 279

NGC 1253 Eri H17-4 Galaxy SAB(rs)cd \*12W/NEB F,90"L  
 Nov 17 2012 36" 17mmT4 VB,VL,EL,NND,VF\* IN GLXY,B\* IN EDGE,PATCHY,GRAN,IRR,SHISB,GAS,DUST,PAIR=1253A,R=GE

NGC 1253A Eri Galaxy SB(s)m  
 Nov 17 2012 36" 17mmT4 MF,ML,PATCH,UB,NND,B\* OFF EDGE,PAIR=1253,R=F

## ARP 280

NGC 3769 UMa H731-2 Galaxy SB(r)b: PB,S,PME  
 Apr 09 2008 31" 17mmT4 VB,VL,EL-EDGE ON,UB,NND,MHISB,INTRACT=3769A,TIPS TOUCH,R=E  
 Mar 15 1985 12.5" 16mm PF,MS,EL,UB

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

## 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,LNUC,SHISB,L 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,EL,HISB,ONE SIDE THICKER,MILKY,BH2 RGN,DUST,F\* OFF NUC/TIP,R=E  
 Jan 28 1982 12.5" 12mm VB,VL,EDGE ON,\* N OF NUC,F\* W TIP,MHISB,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,BLNUC,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,SLT CNTR BULGE,PAIR=2798,R=G

## ARP 284

NGC 7714 Psc Galaxy SB(s)b: pec PB,S,R,PSBM,\*12SP6SF  
 Sep 17 2009 31" 17mmT4 VB,PL,OVAL,BNUC,IRR,SUD MBM,BVRNUC OR B\*,PATCHY AREAS,ARMS,PAIR=7715,R=G

NGC 7715 Psc Galaxy Im pec sp EF,PL,R  
 Sep 17 2009 31" 17mmT4 MF,ML,EL-EDGE ON,UB,NND,KEEP B\* OUT OF FOV,PAIR=7714,R=F

## ARP 285

NGC 2854 UMa H714-3 Galaxy SB(s)b CF,CS,VLE,PGLBM  
 Apr 07 2008 31" 17mmT4 PB,PL,EL,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,EL,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,VHISB,ARMS DET,LNUC,VMBM,PAIR/5560/5569,R=E

# ARP Peculiar Galaxies

## ARP 286

NGC 5566	Vir	H144-1	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
Jun 11 1983	12.5"	20mm	MB,PL,EL,BNUC,B*SW 1 GLXY DIS,BLNUC,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,DIFF TO LOC,PAIRS=N5566/N5560,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,EL,BSNUC,GMBM,HISB CNTR,PAIR=2735A,R=G	
NGC 2735A	Cnc		Galaxy Im: pec	
Mar 26 2006	31"	17mmT4	PF,VS,EL,FSNUC,PAIR=2735,R=F	

## ARP 288

MAC 1334+1344	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,FSNUC,THICK NUC RGN,R=G	
NGC 5222	Vir	H85-3	Galaxy E	CF,S,R,BM,2ND OF 3
May 18 2007	31"	17mmT4	MB,MS,OVAL,BLNUC,CLOSE COMP=MAC,SHISB,F* OFF ONE SIDE,R=G	

## ARP 289

NGC 3981	Crt	H274-3	Galaxy SA(rs)bc	VF,PL,IF
Mar 16 2009	31"	17mmT4	MB,ML,IRR,NND,UB,CNTR BULGE,F* OFF ONE TIP,R=G	

## ARP 290

IC 195	Ari		Galaxy SAB0^	
Oct 04 2005	31"	17mmT4	VB,PL,R,BSNUC,HISB CNTR,PAIR-IC196,R=G	
IC 196	Ari		Galaxy SBb:	
Oct 04 2005	31"	17mmT4	VB,VL,EL,BSNUC,CNTR BULGE,GMBM,HISB CNTR,PAIR=IC195,R=G	

## ARP 291

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

## ARP 292

IC 575	Sex		Galaxy Sa pec sp	
Mar 16 2009	31"	17mmT4	PF,MS,R,COMP SUSP,FLNUC AREA,L THAN IC574,R=F	

## 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,EL,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,EL,INTRACT=3788 AT TIPS,MBM,MHISB CNTR,R=G	
NGC 3788	UMa		Galaxy SAB(rs)ab pec	CB,PL,PME177,PGBM
Apr 09 2008	31"	17mmT4	PB,ML,EL-EDGE ON,PATCH,UB,NND,SHISB,INTRACT=3786 AT TIP,BKN,F* EDGE,R=G	

## ARP 295

PGC 72139	Aqr		Galaxy Sc? pec sp	
Sep 17 2009	31"	17mmT4	MF,ML,EDGE ON,UB,NND,SLT CNTR BULGE,PAIRS=IC1505/OTHERS,R=G	
Sep 12 2007	31"	17mmT4	MF,MS,EDGE ON,SLT CNTR BULGE,BKN PARTS,DUST SUSP,PAIR=PGC72137,R=F	
PGC 72155	Aqr		Galaxy Sb pec:	
Sep 17 2009	31"	17mmT4	MF,MS,PATCH,UB,NND,PAIRS=IC1505/OTHERS,R=G	

# ARP Peculiar Galaxies

## 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,EL,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,BLNUC,MHISB CNTR,PAIR=5752,R=G  
 NGC 5755 Boo Galaxy SBd F,2'NF5754  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,FLNUC,PAIR=5753,R=G

## ARP 298

IC 5283 Peg Galaxy SA(r)cd pec?  
 Oct 06 2004 31" 17mmT4 MF,ML,EL-EDGE ON,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,BSNUC,F\* AND B\* IN GLXY,SBM,PAIR=IC5283,R=F  
 Sep 21 1984 12.5" 16mm DIF,VF,VS,R,SLT PATCH,VMBM,VF HALO  
 Jul 07 1981 12.5" 24mm DIF,EF,ES,EXT F HALO

## ARP 299

IC 694 UMa Galaxy SBm? pec  
 Apr 07 2008 31" 17mmT4 VF,PL,R,BLNUC,HISB CNTR,PAIRS=3690/PGC35345,R=G  
 Apr 03 2005 31" 17mmT4 PB,MS,EL,BSNUC,HISB CNTR,INTRACT=3690,PAIRS=PGC/MAC,R=G  
 Mar 15 1985 12.5" 16mm INTRACT WITH 3690  
 NGC 3690 UMa H247-1 Galaxy IBm pec PB,PS,VLE80,PGBM  
 Apr 07 2008 31" 17mmT4 VB,PL,OVAL,UB,NND,HISB,PAIRS-IC694/PGC35345,R=G  
 Apr 03 2005 31" 17mmT4 VB,ML,OVAL-R,UB,NND,HISB,INTRACT=IC694,PAIRS=PGC/MAC,R=G  
 Mar 15 1985 12.5" 16mm PF,PS,SLT EL2 NUC DET,INTRACT GLXY = IC 694,MHISB!!  
 PGC 35325 UMa Galaxy  
 Apr 07 2008 31" 17mmT4 EF,VS,OVAL,UB,NND,AV FINALLY HOLDS,V CLOSE TO 3690,R=P

## ARP 300

PGC 26849 UMa Galaxy SB(s)dm pec  
 Apr 07 2008 31" 17mmT4 MF,MS,R,FLNUC,PAIR=PGC26864,R=F  
 PGC 26864 UMa Galaxy SAB(s)c  
 Apr 07 2008 31" 17mmT4 VF,PS,EL,PATCH,UB,NND,PAIR=PGC26849,R=P

## ARP 301

PGC 33855 Leo Galaxy Sb? pec  
 Mar 17 2007 31" 17mmT4 MB,ML,EL,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,INTRACT=PGC,R=F  
 PGC 53433 Boo Galaxy Double System  
 Mar 29 2006 31" 17mmT4 MF,PS,PATCH,UB,NND,LOC RIGHT OF \*,INTRACT=PGC,R=F

## ARP 303

IC 563 Sex Galaxy SB(r)ab: pec

# ARP Peculiar Galaxies

## ARP 303

IC 563 Sex Galaxy SB(r)ab: pec  
 Mar 16 2009 31" 17mmT4 MB,ML,EL,NND,SHISB,PAIR=IC564,R=G

IC 564 Sex Galaxy SA(s)cd? pec  
 Mar 16 2009 31" 17mmT4 MB,ML,EL,NND,SHISB,SLT L THAN IC563,ONE END THICKER,PAIR=IC563,R=G

## ARP 304

NGC 1241 Eri H286-2 Galaxy SB(rs)b F,PL,R,VGLBM,\*9N  
 Nov 17 2012 36" 17mmT4 PB,ML,EL-OVAL,BLNUC,MHISB,HALO,GRAD MBM,PAIR=1242,R=G  
 Oct 24 1981 12.5" 12mm VDIF,MF,PS,S OF 2B\*S,R,NND,PATCHY,MHISB,OBLONG

NGC 1242 Eri H591-3 Galaxy SB(rs)c: VF,S  
 Nov 17 2012 36" 17mmT4 MV,ML,OVAL,PATCH,NND,PAIR=1241,R=F

## ARP 305

NGC 4016 Com Galaxy SBdm: VF  
 Dec 28 2008 31" 17mmT4 MB,ML,OVAL,PATCH,UB,NND,MHISB,PAIR=4017,R=G

NGC 4017 Com 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

## ARP 306

PGC 5744 Psc Galaxy S?  
 Nov 17 2012 36" 17mmT4 VF,MS,OVAL,PATCH,UB,NND,PAIR=PGC5759,R=P

PGC 5759 Psc Galaxy Dwarf Irr  
 Nov 17 2012 36" 17mmT4 EF,PS,PATCH,AV A FEW TIMES,PAIR=PGC5744,R=P

## ARP 307

NGC 2872 Leo H57-2 Galaxy E2 PF,PS,R,BM  
 Mar 10 2007 31" 17mmT4 PB,ML,EL,BLNUC,MHISB,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

## ARP 308

NGC 545 Cet H448-2 Galaxy SA0- STELLAR,P OF DNEB  
 Sep 18 2009 31" 17mmT4 MB,ML,R,BLNUC,MHISB CNTR,AGC 194,R=G

NGC 547 Cet H449-2 Galaxy E1 STELLAR,F OF DNEB  
 Sep 18 2009 31" 17mmT4 MB,ML,R,BLNUC,MHISB CNTR,AGC 194,R=G

## ARP 309

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

NGC 943 Cet Galaxy I0? pec VF,R,(NEB D\*)  
 Sep 12 2007 31" 17mmT4 PF,MS,EL,FLNUC,V CLOSE PAIR,ALM TOUCH,PAIR=942,R=F

## ARP 310

IC 1259 Dra Galaxy S0 pec?  
 Jun 24 2003 12.5" 9mmT6 MB,MS,SHISB,V CLOSE COMP=PGC60325,OTHER PAIRS PRESENT,BOF GRP,R=G

PGC 60325 Dra Galaxy S?  
 Jun 24 2003 12.5" 9mmT6 MB,MS,SHISB,ON TIP OF IC1259,BOTH APPEAR AS ,EL GLXY,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

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# ARP Peculiar Galaxies

## 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,FLNUC,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 313

NGC 3991	UMa	Galaxy Im pec sp	F,S,LE,1ST OF 3
Apr 09 2008	31"	17mmT4	MF,ML,EDGE ON,BTR ONE SIDE THAN OTHER/PAIRS=3995/3994,E GRP,R=G
NGC 3994	UMa	Galaxy SA(r)c pec?	PB,VS,2ND OF 3
Apr 09 2008	31"	17mmT4	MB,MS,OVAL,BLNUC,SHISB,BM,MHISB CNTR,E GRP,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,MHISB,CIGAR SHAPE,PAIRS=3991/3994/E GRP,R=G

## ARP 314

PGC 70127	Aqr	Galaxy (R')SA(s)bc: p	
Sep 12 2007	31"	17mmT4	MB,ML,OVAL,UB,NND,MHISB,PAIRS=PGC'S,R=G
PGC 70130	Aqr	Galaxy SB(rs)cd: pec	
Sep 12 2007	31"	17mmT4	MB,ML,OVAL,UB,NND,MHISB,VF* IN EDGE OF GLXY,ANOTHER FURTHER OUT,PAIR=PGC'S,R=G
PGC 70133	Aqr	Galaxy (R')SB(s)dm pec	
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
Mar 17 2009	31"	17mmT4	MF,ML,EDGE ON,UB,NND,CNTR BULGE,TOUCH=NGC2832,R=G
Dec 07 2005	31"	17mmT4	PF,ML,EDGE ON,PAIRS=2832,2831,E PAIRS,R=F
Dec 26 2003	31"	17mmT4	DIF,MF,MS,EL,PATCH,UB,NND,R=F
NGC 2831	Lyn	H113-1 Galaxy E0	F,S,LE,BM,2ND OF 3
Mar 17 2009	31"	17mmT4	MB,MS,R,BSNUC,SHISB,INSIDE OF NGC2832,AGC,R=F
Dec 07 2005	31"	17mmT4	MF,VS,V CLOSE COMP=2832,ALM ATTACHED,PAIRS=2832/2830,E PAIRS,R=F
Dec 26 2003	31"	17mmT4	MF,PS,PATCH,FSNUC,INTRACT=2832,R=G
NGC 2832	Lyn	H113-1 Galaxy E+2:	F,VS,R,3RD OF 3
Mar 17 2009	31"	17mmT4	PB,PL,R,BLNUC,MHISB,HISB CNTR,SBM,INTRACT=2831,TOUCH=2830,AGC,R=E
Dec 07 2005	31"	17mmT4	VB,PL,R,BLNUC,HISB,V CLOSE COMP,PAIRS=2831/2830,E PAIRS,R=E
Dec 26 2003	31"	17mmT4	VB,VL,R,BLNUC,MHISB,INTRACT=2831,FACE ON,ARMS DET,PATCHY AREAS,R=G

## ARP 316

NGC 3187	Leo	Galaxy SB(s)c pec	VF,E
Mar 06 2010	31"	17mmT4	MF,ML,EDGE ON,UB,NND,TAPERED ENDS,PAIRS=3193/3190,R=G
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
Mar 06 2010	31"	17mmT4	VB,VL,EL,BSNUC,TIGHT,R VB NUC,HISB CNTR,MHISB RGN FROM NUC,PAIRS=3183/31878,R=E
Feb 25 1984	12.5"	12mm	MB,PL,EL,MHISB,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
Mar 06 2010	31"	17mmT4	EF,VL,R,BLNUC,HISB,GRAN HALO SUR NUC,PAIRS=3190/3187,R=E
Feb 25 1984	12.5"	12mm	MB,ML,R,BM,F* TO W,MHISB,CLOSE PAIR/3190/3185
Jan 30 1981	12.5"	24mm	PB,PL,BNUC,DIM HALO,PAIR/3185/3190
Dec 03 1980	12.5"	24mm	

# ARP Peculiar Galaxies

## ARP 316

NGC 3193      Leo                    H45-2      Galaxy E2                    B,S,VLE,PSLBM,\*9NF  
 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 08 2013 36"      17mmT4      MESSIER MARATHON 2013  
 Mar 19 2004 12.5"      12mmT4      MESSIER MARATHON 2004  
 Feb 15 2004 31"      17mmT4      EB,EL,EDGE ON,BLNUC,HISB,ARMS AND DUST,M65,BEST SEEN TODATE,R=E  
 Mar 03 1984 12.5"      12mm      VB,VL,EDGE ON,BNUC,BARMS,BLNUC,TAPERED 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,B 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  
 Mar 06 2010 31"      17mmT4      EB,EL,EDGE ON UB,SHISB,SVRL F\*\*S IN TIP,DUST LANE,2 HALVES,ONE HALF THICKER THAN  
 OTHER,R=EE  
 Mar 03 1984 12.5"      12mm      DIF,MF,PL,EDGE ON,VF\*\*S S OF E ARM,DARK LANES DET,UB,NND  
 Mar 27 1981 12.5"      24mm  
 Jan 30 1981 12.5"      24mm      DIF,PF,EL,EDGE ON,F HALO,PAIR/M66/M65/3626  
 Dec 03 1980 12.5"      24mm  
 Jun 10 1980 6"      24mm      BET 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,EL,BSNUC,SHISB CNTR,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,MHISB CNTR,MHISB CNTR,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,BLNUC,MBM,MHISB CNTR,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,EL,PATCH,UB,NND,SHISB,HICKSON 16,R=G  
 NGC 848      Cet    Galaxy (R')SB(s)ab pec                    EEf,PL,VDIFFIC,\*NF  
 Sep 12 2007 31"      17mmT4      MB,ML,OVAL,FLNUC,MHISB,R=G

## ARP 319

NGC 7317      Peg    Galaxy E4                    VF,VS  
 Oct 06 2004 31"      17mmT4      MB,PS,OVAL,FLNUC,GBM,MHISB CNTR,STEPHAN'S QUINTET,R=F  
 Sep 01 2002 12.5"      16mm      EEEDIF,VF,VS,F\* ON EDGE OF GLXY,SBM,STEPHEN'S QUINTET  
 NGC 7318A      Peg    Galaxy E2 pec                    EF,ES  
 Oct 06 2004 31"      17mmT4      MF,PS,OVAL,BSNUC,GBM,MHISB CNTR,STEPHAN'S QUINTET,R=F  
 Sep 01 2002 12.5"      16mm      EEDIF,PF,PS,EL,COMP=7318B,CONNECTED,COULD NOT SPLIT,OVAL,PATCH,NND  
 Jul 06 1983 12.5"      16mm      EEDIF,EF,ES,F\*\*S SUR,PATCH,EDGE OF VIS  
 Sep 18 1982 12.5"      16mm      STEPHENS QUINTET,VDIF,VF,MS,PATCH-OVAL,ONE OF THE BMEMBERS  
 NGC 7318B      Peg    Galaxy SB(s)bc pec                    EF,ES  
 Oct 06 2004 31"      17mmT4      MB,PS,OVAL,BSNUC,GBM,MHISB CNTR,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,FSNUC,SHISB,STEPHAN'S QUINTET,R=G

# ARP Peculiar Galaxies

## ARP 319

NGC 7319 Peg Galaxy SB(s)bc pec EF,ES  
 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,MHISB,\*IN GLXY,PATCHY AREAS DET,STEPHAN'S QUINTET,R=E  
 Sep 01 2002 12.5" 16mm VDIF,PF,PS,EL,BTR OF GRP,OVAL,NND,COMP,STEPHAN'S QUINTET  
 Sep 21 1984 12.5" 16mm VDIF,VF,VS,F PATCH,2 COMP CLOSE BY DET  
 Sep 18 1982 12.5" 16mm STEPHENS QUINTET,EDIF,VF,MS,OBLONG,BMEMBER

## ARP 320

NGC 3745 Leo Galaxy SB(s)0-: PB,PS,R  
 Mar 29 2006 31" 17mmT4 VF,VS,VFSNUC,E HICKSON GRP,R=F

NGC 3746 Leo Galaxy SB(r)b PB,PS,R  
 Mar 29 2006 31" 17mmT4 PF,PS,VSNUC,E HICKSON GRP,R=F

NGC 3748 Leo Galaxy SB0^? sp PB,PS,R  
 Mar 29 2006 31" 17mmT4 VF,VS,VFSNUC,E HICKSON GRP,R=F

NGC 3750 Leo Galaxy SAB0-? PB,R,CBM,1ST OF3LINE  
 Mar 29 2006 31" 17mmT4 PF,PS,R,FSNUC,E HICKSON GRP,R=F

NGC 3751 Leo Galaxy S0- pec? F,L,E45  
 Mar 29 2006 31" 17mmT4 VF,PS,VFSNUC,E HICKSON GRP,R=F

NGC 3753 Leo Galaxy Sab? sp pec PB,PL,2ND OF3IN LINE  
 Mar 29 2006 31" 17mmT4 MF,MS,EL,UB,NND,E HICKSON GRP,R=F

NGC 3754 Leo Galaxy SBb? pec VF,R,3RD OF3 IN LINE  
 Mar 29 2006 31" 17mmT4 PF,VS,R,UB,NND,E HICKSON GRP,R=P

## ARP 321

PGC 27508 Hya Galaxy SB(rs)b pec sp  
 Mar 29 2006 31" 17mmT4 VF,PS,EL-EDGE ON,UB,NND,COMP=PGC27513,E HICKSON GRP,R=P

PGC 27509 Hya Galaxy E  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,BLNUC,MHISB CNTR,E HICKSON GRP,R=F

PGC 27513 Hya Galaxy SA(r)0-: pec  
 Mar 29 2006 31" 17mmT4 MF,PS,R,FLNUC,ATTACHED TO PGC27508,E HICKSON GRP,R=F

PGC 27515 Hya Galaxy SAB(s)a pec:  
 Mar 29 2006 31" 17mmT4 EDIF,EF,ES,AV,SUSP,E HICKSON GRP,R=P

PGC 27516 Hya Galaxy SB(s)0/a pec:  
 Mar 29 2006 31" 17mmT4 PF,PS,OVAL,BSNUC,F\* IN EDGE,E HICKSON GRP,R=F

## ARP 322

PGC 35609 UMa Galaxy SB0 pec:  
 Feb 23 2006 31" 17mmT4 PF,MS,EL,VFSNUC,\*NUC SUSP,E HICKSON GRP,R=F

PGC 35615 UMa Galaxy SA(s)0/a pec:  
 Feb 23 2006 31" 17mmT4 MF,PS,OVAL,\*NUC,E HICKSON GRP,R=F

PGC 35618 UMa Galaxy (R')S0/a pec:  
 Feb 23 2006 31" 17mmT4 MF,PS,OVAL,FSNUC,E HICKSON GRP,R=F

PGC 35620 UMa Galaxy Sa pec sp  
 Feb 23 2006 31" 17mmT4 MB,PS,EL,BSNUC,E HICKSON GRP,R=F

PGC 35631 UMa Galaxy S?  
 Feb 23 2006 31" 17mmT4 PF,MS,EL TO EDGE ON,VFSNUC,E HICKSON GRP,R=F

## ARP 323

MAC 2354+0021 Psc Galaxy  
 Sep 11 2012 36" 17mmT4 EF,ES,OTHER HICKSON 98 MEMBERS PRESENT,NICE GRP,ONLY SUSP AFTER SVRL MINUTES,R=P

# ARP Peculiar Galaxies

## ARP 323

NGC 7783	Psc	Galaxy	F,S,LE
Sep 04 2005 31"	17mmT4	PF,VS,FSNUC,F* BET COMP,PAIRS=PGC'S,MHISB CNTR,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,FSNUC,F* BET COMP,PAIRS=PGC'S/7783,MHISB CNTR,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+1554	Her	Galaxy	
May 14 2009 31"	17mmT4	MF,MS,UB,ONE OF THE BEST MAC'S,MHISB,AGC 2147,R=F	
Apr 26 2006 31"	17mmT4	MF,MS,R,FLNUC,ONE OF THE BTR MAC'S,PAIRS=PGC'S,MAC'S,E FOV,R=F	
Mar 29 2006 31"	17mmT4	MF,MS,OVAL,FLNUC,SHISB,MHISB CNTR,BEST MAC TODATE,COMP=MAC,MANY COMP,R=F	
MAC 1602+1555	Her	Galaxy	
May 14 2009 31"	17mmT4	PF,VS,OVAL,BSNUC,VF* ON EDGE,AGC 2147,R=F	
Apr 26 2006 31"	17mmT4	PF,VS,PATCH,UB,NND,F* OFF EDGE,SBM,PAIRS=PGC'S/MAC'S,E FOV OF GLXY,R=P	
Mar 29 2006 31"	17mmT4	VF,PS,PATCH,UB,NND,COMP=MAC,F* ON EDGE OF GLXY,MANY COMP,E GRP,R=P	
MAC 1602+1557	Her	Galaxy	
May 14 2009 31"	17mmT4	EF,PS,PATCH,AV COMES AND GOES,AGC 2147,R=P	
Apr 26 2006 31"	17mmT4	EF,ES,PATCH,AV,SUSP,PAIRS=PGC'S/MAC,E FOV OF GLXY,R=P	
MAC 1602+1601	Her	Galaxy	
May 18 2007 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	
May 14 2009 31"	17mmT4	PF,PS,EL,PATCH,UB,NND,AGC 2147,R=P	
Apr 26 2006 31"	17mmT4	PF,MS,EL,UB,NND,PAIRS=PGC'S/MAC'S,E FOV OF GLXY,R=F	
Mar 29 2006 31"	17mmT4	PF,MS,EL,UB,NND,MANY COMP,E GRP,R=F	
PGC 56777	Her	Galaxy SAB(r)ab	
May 14 2009 31"	17mmT4	MF,PS,R,BLNUC,AGC 2147,R=F	
Apr 26 2006 31"	17mmT4	MF,MS,R,FLNUC,PAIRS=PGC'S/MAC'S,E FOV OF GLXY,R=P	
Mar 29 2006 31"	17mmT4	MF,MS,OVAL,UB,NND,SHISB,MANY COMP,E GRP,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,E FOV OF GLXY,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,E FOV OF GLXY,R=P	
Mar 29 2006 31"	17mmT4	VF,VS,PATCH,UB,NND,PAIRS=PGC56784/PGC56782,R=P	
PGC 56784	Her	Galaxy E+	
May 14 2009 31"	17mmT4	MF,MS,R,BLNUC,AGC 2147,R=F	
May 18 2007 31"	17mmT4	MB,ML,OVAL,FLNUC,SHISB CNTR,R=G	
Apr 26 2006 31"	17mmT4	MF,MS,R,FLNUC,SBM,PAIRS=PGC'S/MAC'S,E FOV OF GLXY,R=F	
Mar 29 2006 31"	17mmT4	MF,MS,OVAL,UB,NND,SHISB,MANY COMP,E GRP,R=G	

## ARP 325

MAC 2206-2104	Aqr	Galaxy	
Sep 11 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,TOUCH PGC68035,APPEAR AS ONE,EL GLXY,OTHERS PRESENT,R=P	
Sep 17 2009 31"	17mmT4	VF,MS,PATCH,UB,NND,INTRACT=PGC68036,BOTH APPEAR AS ONE PATCH,CANNOT SEP,AGC	

# ARP Peculiar Galaxies

## ARP 325

MAC 2206-2104	Aqr		Galaxy
		3744,R=P	
MAC 2206-2105	Aqr		Galaxy
Sep 17 2009 31"	17mmT4	VF,VS,PATCH,UB,NND,AV	COMES AND GOES,HARD TO SEP FROM PGC68036,AGC 3744,R=P
PGC 68034	Aqr		Galaxy E/S0
Sep 11 2012 36"	17mmT4	EF,ES,SUSP,CANNOT DETERMINE FROM OTHERS,	INTRACT,R=P
Sep 11 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,CAN JUST BARELY SEP FROM OTHERS,	MANY OTHERS PRESENT,R=P
PGC 68035	Aqr		Galaxy
Sep 11 2012 36"	17mmT4	EF,ES,SUSP,CANNOT DETERMINE FROM OTHERS,	INTRACT,R=P
Sep 11 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,TOUCH MAC,APPEAR AS ONE ,EL GLXY,	OTHERS PRESENT,R=P
PGC 68036	Aqr		Galaxy
Sep 11 2012 36"	17mmT4	VF,VS,OVAL,UB,NND,CAN BARELY SEP FROM OTHERS,	R=P
Sep 17 2009 31"	17mmT4	VF,MS,PATCH,UB,NND,INTRACT=MAC,BOTH APPEAR AS ONE PATCH,	CANNOT SEP,AGC 3744,R=P

## ARP 326

MAC 1337+0624	Vir		Galaxy
May 18 2007 31"	17mmT4	PF,PS,OVAL,PATCH,UB,NND,PAIRS=MANY OTHERS,	R=P
MAC 1337+0628	Vir		Galaxy
May 18 2007 31"	17mmT4	VF,VS,PATCH,UB,NND,PAIRS=MANY OTHERS,	R=P
MAC 1337+0632	Vir		Galaxy
May 18 2007 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,FSNUC,SMWHT MHISB CNTR,PAIRS=MANY OTHERS,	R=P
PGC 48117	Vir		Galaxy S
May 18 2007 31"	17mmT4	PF,MS,EL-OVAL,UB,NND,PAIRS=MANY OTHERS,	R=F
PGC 48118	Vir		Galaxy SB
May 18 2007 31"	17mmT4	PF,MS,EL-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,FLNUC,SHISB CNTR,PAIR=PGC'S,	R=F	
PGC 17173	Ori		Galaxy S	
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FT NEB FROM 1875,	R=P	
PGC 17175	Ori		Galaxy S	
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FT NEB FROM 1875,	R=P	
PGC 17176	Ori		Galaxy SA0-:	
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FT NEB FROM 1875,	BTR OF THE 3,R=P	

## ARP 328

PGC 52844	Boo		Galaxy S0?	
Apr 06 2008 31"	17mmT4	VF,VS,PATCH,SNUC,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,FSNUC,CLOSE COMP=PGC52851,HICKSON 72,	R=P	
Mar 29 2006 31"	17mmT4	VF,VS,PATCH,VFSNUC,CLOSE COMP=PGC52851,PAIRS=PGC'S,	R=P	
PGC 52851	Boo		Galaxy L	
Apr 06 2008 31"	17mmT4	VF,VS,PATCH,FSNUC,CLOSE COMP=PGC52848,HICKSON 72,	R=P	
Mar 29 2006 31"	17mmT4	VF,VS,PATCH,VFSNUC,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	

# ARP Peculiar Galaxies

## ARP 328

PGC 52854 Boo Galaxy S0?  
 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 GLXY,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 GLXY,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 GLXY,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 GLXY,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 GLXY,ALL IN SAME PLANE,R=P

## ARP 330

MAC 1649+5322 Dra Galaxy  
 Mar 26 2006 31" 17mmT4 EF,VS,PATCH,AV,MULTI GLXY,PAIRS=PGC'S,R=P

PGC 59042 Dra Galaxy E2 pec:  
 Mar 26 2006 31" 17mmT4 MF,VS,PATCH,VFSNUC,MULTI GLXY,PAIRS=PGC'S,R=F

PGC 59048 Dra Galaxy E2 pec:  
 Mar 26 2006 31" 17mmT4 VF,VS,PATCH,NND,MULTI GLXY,PAIRS=PGC'S,R=P

PGC 59049 Dra Galaxy E1:  
 Mar 26 2006 31" 17mmT4 PF,PS,R,BSNUC,MULTI GLXY,PAIRS=PGC,R=F

PGC 59050 Dra Galaxy SB(s)bc: pec  
 Mar 26 2006 31" 17mmT4 VF,VS,PATCH,NND,MULTI GLXY,PAIRS=PGC'S,R=P

PGC 59054 Dra Galaxy E0:  
 Mar 26 2006 31" 17mmT4 VF,VS,PATCH,NND,MULTI GLXY,PAIRS=PGC'S,R=P

## ARP 331

NGC 379 Psc H215-2 Galaxy S0 PF,S,R,BM  
 Sep 18 2009 31" 17mmT4 PB,ML,EL,BLNUC,HISB CNTR,PAIRS=OTHER NGC'S,R=G

NGC 380 Psc H216-2 Galaxy E2 PF,S,R,SBM  
 Sep 18 2009 31" 17mmT4 PB,ML,OVAL,BLNUC,HISB CNTR,PAIRS=OTHER NGC'S,R=G

NGC 382 Psc Galaxy E: VF,S,R,SP OF D NEB  
 Sep 18 2009 31" 17mmT4 MB,PS,OVAL,BSNUC,SHISB CNTR,PAIRS=OTHER NGC'S,R=F

NGC 383 Psc H217-2 Galaxy SA0-: PF,PL,R,GBM,NF D NEB  
 Sep 18 2009 31" 17mmT4 VB,VL,R,BLNUC,HISB,GRAN HALO SUR NUC,PAIRS=OTHER NGC'S,R=E

NGC 384 Psc Galaxy E3 PF,PS,SP OF 2  
 Sep 18 2009 31" 17mmT4 PB,ML,R,BLNUC,HISB CNTR,PAIRS=OTHER NGC'S,R=G

NGC 385 Psc Galaxy SA0-: PF,PS,R,NF OF 2  
 Sep 18 2009 31" 17mmT4 PB,ML,OVAL,BLNUC,HISB CNTR,PAIRS=OTHER NGC'S,R=G

NGC 386 Psc Galaxy E3: CF,S,R  
 Sep 18 2009 31" 17mmT4 MB,ML,OVAL,FLNUC,MHISB CNTR,PAIRS=OTHER NGC'S,R=G

NGC 387 Psc Galaxy E VF,S,R  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,NND,PAIRS=OTHER NGC'S,R=F

NGC 388 Psc Galaxy E3: VF,S,R  
 Sep 18 2009 31" 17mmT4 MF,MS,R,FLNUC,PAIRS=OTHER NGC'S,R=F

## ARP 332

IC 1892 Eri Galaxy SB(s)d pec

# ARP Peculiar Galaxies

## ARP 332

IC 1892	Eri	Galaxy SB(s)d pec	
Nov 17 2012 36"	17mmT4	VF,MS,OVAL,UB,NND,PAIRS=1228/1229/1230,R=PF	
NGC 1228	Eri	Galaxy (R')SB(rs)0+ p:	EF,ES,R,GBM,P OF 2
Nov 17 2012 36"	17mmT4	MF,MS,OVAL,BSNUC,MHISB,PAIRS=1229/1230/OTHERS,R=F	
NGC 1229	Eri	Galaxy SBb: pec	EF,ES,R,GBM,F OF 2
Nov 17 2012 36"	17mmT4	MF,MS,OVAL,PATCH,NND,PAIRS=1228/1230/OTHERS,R=F	
NGC 1230	Eri	Galaxy SB0^? pec	(F*)
Nov 17 2012 36"	17mmT4	PF,PS,OVAL,UB,NND,PAIRS=1228/1229/OTHERS,R=F	

## 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,EL,BLNUC,GMBM,HISB,PAIRS/1028/1029,R=G	
Oct 23 1982 12.5"	16mm	MF,ML,FNUC,F* TO N,GBM,R-OVAL,PAIR/1029	

## ARP 334

PGC 47462	CVn	Galaxy Sb	
Mar 17 2007 31"	17mmT4	MF,MS,EL,FLNUC,S 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,L CNTR RGN,TAPERED ENDS,F GLOW SUR NUC	

## ARP 337

NGC 3034	UMa	M82 H79-4 Galaxy I0 sp	VB,VL,VME(RAY)
Apr 09 2023 36"	17mmT4	EB,EL,EL,HISB,FILLS FOV,BKN PARTS,PATCHES,CNTR RGN SPLIT,BRT HISB PARTS,AWESOME,R=EEE	
Jan 29 2014 36"	17mmT4	M82,EB,EL,EDGE ON,HISB,PATCHES,NUC REG FRAGMENTED,DUST,DETAIL IN ARMS,SN IN ARM ~ 10,5MAG,R=EE	
Mar 08 2013 36"	17mmT4	MESSIER MARATHON 2013	
Feb 04 2005 31"	17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BKN,BEST TO DATE,R=E	
Apr 14 2004 31"	17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BRN PARTS,R=E	
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 15 1985 12.5"	12mm	SAME,IRR	
Mar 02 1984 10"	20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES	
Oct 22 1982 12.5"	12mm	VB,VL,EDGE ON,VHISB,2 DUST LANES DET,B RGN DET,TAPERED,KNTY	
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980 12.5"	24mm		
Oct 31 1980 12.5"	24mm		
Oct 29 1980 8"	24mm		
Sep 18 1980 12.5"	24mm		
Sep 10 1980 12.5"	24mm		
Sep 09 1980 12.5"	24mm		
Aug 22 1980 12.5"	24mm		

## ARP 338

ARP 338	Sex	Galaxy	
Mar 16 2009 31"	17mmT4	VDIF,EF,MS,OVAL,PATCH,AV,PAIR=MAC'S,R=P	