

# 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,PATCY,SEVERAL VF\*S IN AND AROUND GAL,R=P

## ARP 3

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

## ARP 5

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

## ARP 6

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

## ARP 7

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

## ARP 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,BROKEN PARTS,R=G

## ARP 9

NGC 2523 Cam Galaxy SB(r)bc PB,PL,LE,LBM,\*NR  
 Feb 01 2005 31" 17mmT4 VF,VL,ELONG,LARGE BNUC,MOD HISB,BRT BAR LIKE NUC,GMBM,HALO AROUND BAR,R=G  
 Sep 18 1980 12.5" 24mm

## ARP 10

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

## ARP 11

PGC 4116 Psc Galaxy SBb  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,PAIRS=PGC'S/MAC,R=G  
 PGC 4124 Psc Galaxy SBb  
 Sep 18 2009 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,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,ELONG,MOD HISB,BETWEEN 2\*S,SBM,NO \*S  
 Jul 07 1981 12.5" 24mm DIF,MF,ML,FAINT ARM  
 Sep 10 1980 12.5" 24mm  
 Jul 15 1980 12.5" 24mm PF,LOC BETWEEN 2F\*S  
 Jul 12 1980 12.5" 24mm

## ARP 14

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

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## ARP 15

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

## ARP 16

NGC 3627 Leo M66 Galaxy SAB(s)b B,VL,ME150,MBM,2\*NP  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 Feb 15 2004 31" 17mmT4 EB,EL,OVAL,LARGE BNUC,BRT BAR,SPR ARMS DET,DUST DET,HISB,M66, BEST TODATE,R=E  
 Mar 03 1984 12.5" 12mm VB,VL,EDGE ON,BNUC,GBM,VERY BRT SMALL NUC,B\*NW,FAINTER \* SW  
 Mar 02 1984 10" 20mm SAME  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Jan 30 1981 12.5" 24mm EB,EL,ELONG,BNUC,BRT HALO,PAIR/3626/3628  
 Dec 03 1980 12.5" 24mm  
 Jun 10 1980 6" 24mm  
 Apr 18 1980 6" 24mm CLOSE PAIR/M65

## ARP 17

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

## ARP 18

NGC 4088 UMa H206-1 Galaxy SAB(rs)bc B,CL,E55,LBM  
 Mar 06 2003 12.5" 9mmT6 MB,EL,OVAL,PATCH,UB,NND,SOMEWHAT HISB,PAIR=4085,R=E  
 Feb 12 1983 12.5" 24mm DIF,PB,PL,ELONG,HISB,NND,UB,W SIDE WIDER THAN E,PAIR/4085

## ARP 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 WHISPS 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,SOMEWHAT HISB,BETWEEN TRI OF \*\*S,R=F

## ARP 21

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

## ARP 22

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

## ARP 23

NGC 4618 CVn H178-1 Galaxy SB(rs)m B,L,E,MBM,CVDBRANCHN  
 Feb 17 2004 31" 17mmT4 PB,VL,SHISB,IRR,2 HALVES,APP AS 2 GAL SIDE BY SIDE,ONE HALF BRTER,PAIR=4625,R=E  
 Jan 28 1982 12.5" 16mm MF,PL,OVAL-R,COMP TO N (4625),SBM,B\* TO S,APPEARS TO BE 2 GAL OR DARK LANE  
 Mar 27 1981 12.5" 24mm  
 NGC 4625 CVn H660-2 Galaxy SAB(rs)m pec PF,S,R  
 Feb 17 2004 31" 17mmT4 PB,PL,R,LARGE BNUC,MOD HISB MIDDLE.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'

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## ARP 24

NGC 3445      UMa                    H267-1    Galaxy SAB(s)m                    CB,PL,IR,VGLBM,\*NF2'  
 Feb 05 2005 31"    17mmT4    PB,ML,OVAL,PATCH,UB,NND,MOD HISB,PAIR=PGC32784,R=G  
 Mar 15 1985 12.5"    16mm      DIF,PF,MS,BNUC,MOD HISB,OVAL-R,F\* CLOSE BY,UB,3458 IN SAME FOV  
 PGC 32784      UMa                    Galaxy Sm  
 Feb 05 2005 31"    17mmT4    EF,MS,PATCH,SUSP,PAIR=3445,R=P

## ARP 25

NGC 2276      Cep                    Galaxy SAB(rs)c                    F,60",LBM  
 Sep 06 2002 12.5"    9mmT6    DIF,PF,VL,OVAL,UB,NND,CLOSE TO B\*,PAIR/2300/IC455

## ARP 26

NGC 5457      UMa                    M101            Galaxy SAB(rs)cd                    PB,VL,IR,G,VSMBMSN 4  
 Mar 08 2010 31"    17mmT4    PB,EL,OVAL,SMALL BNUC,FACE ON,SPR STR,H2 REGIONS,DUST,DETAIL IN ARMS,MANY F\*'S IN ARMS,PAIRS=NGC'S,R=E  
 Mar 19 2004 12.5"    12mmT4    MESSIER MARATHON 2004  
 Mar 06 2003 12.5"    9mmT6    EB,EL,R,BNUC,HISB,FACE ON,KNTS DET,ARMS DET,SPR STR DET,F\*'S,SMALL RNUC,R=E  
 Mar 02 1984 10"    20mm      MB,EL,BNUC,FACE ON,F\* JUST N OF NUC,SPR STR SUSP  
 Mar 27 1981 12.5"    24mm      MESSIER MARATHON 1981  
 Apr 16 1980 6"    24mm  
 NGC 5474      UMa                    H214-1    Galaxy S(c)                    PB,L,BM  
 Mar 06 2003 12.5"    9mmT6    PF,PL,R,PATCH,NND,PATCHY,F\* IN GAL DET,R=G  
 Jun 11 1983 12.5"    20mm      DIF,MB,PL,FNUC,F\*NW 1 GAL DIA,OVAL,SMALL BRT NUC,SOUTH OF M101  
 Mar 27 1981 12.5"    24mm

## ARP 27

NGC 3631      UMa                    H226-1    Galaxy SA(s)c                    PB,L,R,SVMBMRN  
 Mar 15 1985 12.5"    16mm      MB,ML,FNUC,FACE ON,SBM,SMALL NUC,SPR STR DET,2 \*\*S OUTER ARMS  
 Oct 22 1982 12.5"    16mm      DIF,VF,MS,PATCHY,OVAL,STELL NUC

## ARP 28

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

## ARP 29

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

## ARP 30

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

## ARP 31

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

## ARP 32

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## ARP 32

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

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

## ARP 33

MAC 1337+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,ELONG,OVAL,UB,NND,PAIRS=MANY OTHERS,R=F

## ARP 34

NGC 4615 Com Galaxy Scd: F,PL,E,3RD OF 3  
 Mar 20 2009 31" 17mmT4 MF,ML,ELONG,UB,NND,BAR DET, SPIRAL 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,LARGE FNUC,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,SUDDENLY BUILDS TO BRIGHT STAR LIKE NUC,FACE ON,FAINT HALO ARMS DET  
 Mar 27 1981 12.5" 24mm MESSIER MARATHON 1981  
 Oct 31 1980 12.5" 24mm  
 Oct 29 1980 8" 24mm  
 Sep 18 1980 12.5" 24mm  
 Sep 07 1980 12.5" 24mm

## ARP 38

NGC 6412 Dra H41-6 Galaxy SA(s)c GCL,CL,R,VGBM,RR  
 Jun 24 2003 12.5" 9mmT6 PB,VL,OVAL,R,FNUC,MOD HISB,F\* IN GAL,PATCHY AREAS DET,R=G  
 Jul 22 1981 12.5" 16mm R,DIF,SPR STR SUSP,F\* 14TH MAG N SIDE,B\* FARTHER N

## ARP 40

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

## ARP 41

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

## ARP 42

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

## ARP 43

IC 607 Leo Galaxy SB(rs)bc

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## ARP 43

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

## ARP 44

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

## ARP 45

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

## ARP 46

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

## ARP 47

MAC 1447+1851 Boo Galaxy  
 Mar 29 2006 31" 17mmT4 PF,VS,OVAL,VSFNUC,\* CLOSE BY,COMP=PGC52803,PAIR=MAC,R=F  
 PGC 52803 Boo Galaxy SB  
 Mar 29 2006 31" 17mmT4 PF,VS,OVAL,VSFNUC,\* CLOSE BY,COMP=MAC,PAIR=MAC,R=F

## ARP 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,BRT 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

## ARP 54

PGC 9107 Cet Galaxy  
 Sep 12 2007 31" 17mmT4 EF,VS,PATCH,AV,PAIR=PGC9113,R=P  
 PGC 9113 Cet Galaxy SBc  
 Sep 12 2007 31" 17mmT4 MF,MS,OVAL,PATCH,UB,NND,PAIR=PGC9107,R=F

## ARP 55

PGC 26124 Lyn Galaxy C  
 Mar 20 2007 31" 17mmT4 PF,MS,OVAL,LARGE BNUC,B\* CLOSE BY,PAIR=MAC,R=F  
 PGC 26132 Lyn Galaxy Double System  
 Mar 20 2007 31" 17mmT4 MF,MS,OVAL,BAR LIKE NUC,FAINT OUTER RING PART DET,2VF\*S IN EDGE,PAIR=MAC,R=F

## ARP 56

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

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## 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,VERY LARGE CENTRAL REGION,PATHCY,R=F

## ARP 59

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

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

## ARP 62

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

## ARP 63

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

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

## ARP 64

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

## ARP 65

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

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

NGC 93 And Galaxy S? VF,VS

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

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

## ARP 66

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

## ARP 67

PGC 4906 Cet Galaxy SB(r)ab  
 Sep 18 2009 31" 17mmT4 MF,MS,ELONG,SMALL BNUC,GRADUALLY BM,INTER=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,INTER=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,LARGE FNUC,PAIR=MAC,R=F

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## 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,SMALL BNUC,BAR LIKE NUC,PAIR=5994,R=G  
 Apr 26 2006 31" 17mmT4 MF,MS,OVAL,SMALL FNUC,SMALL COMPACT NUC,BAR DET,F ARMS FROM END OF BAR,R=G

## ARP 73

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

## ARP 74

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

## ARP 76

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

## ARP 77

NGC 1097 For H48-5 Galaxy SB(s)b VB,L,VME151,VBMN  
 Sep 16 2009 31" 17mmT4 EB,EL,OVAL,EXT LARGE BNUC,SUDDENLY MBM,CENTRAL REG UB,LARGE HALO OF ARMS,INTER=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,ELONG,UB,NND,SOMEWHAT HISB,INTER=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,STELL NUC,SLIGHT HAZE AROUND NUC,COMPANION W/772  
 NGC 772 Ari H112-1 Galaxy SA(s)b B,CL,R,GBM,R  
 Oct 23 1982 12.5" 16mm SAME  
 Sep 24 1981 12.5" 16mm PB,PL,SMBM,ELONG,\* E SIDE,FAINT 15TH MAG COMP W/770 1 GAL DIA,BNUC,FARMS  
 Oct 31 1980 12.5" 24mm  
 Oct 29 1980 8" 24mm  
 Sep 10 1980 12.5" 24mm  
 Sep 07 1980 12.5" 24mm NICE!!,VL,PF,SIMILAR TO M33

## ARP 79

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## ARP 79

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

## ARP 80

NGC 2633      Cam      Galaxy SB(s)b      F,S,LE  
 Feb 04 2005 31"    17mmT4    PB,ML,ELONG,LARGE BNUC,SHISB,B\* IN NUC,GMBM,NGC2633 GROUP,R=F  
 Sep 18 1980 12.5"    24mm

## ARP 81

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

## ARP 82

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

## ARP 83

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

## ARP 84

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

## ARP 85

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

# ARP Peculiar Galaxies

## ARP 85

NGC 5195 CVn H186-1 Galaxy I0 pec B,PS,LE,VGBM,INV-M51  
 Apr 16 1980 6" 24mm

## ARP 86

NGC 7752 Peg Galaxy I0: F,S,LE,P 7753  
 Sep 05 2007 31" 17mmT4 MB,PL,LARGE BNUC,2\*S IN GAL,MBM,CENTRAL REGION PATCHY,PAIR=7753,R=F

NGC 7753 Peg H213-2 Galaxy SAB(rs)bc CF,CL,VLE,VGLBM,R  
 Sep 05 2007 31" 17mmT4 MF,ML,NND,MOD HISB,PAIR=7752,R=F

## ARP 87

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

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

## ARP 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

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

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

## ARP 90

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

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

## ARP 91

NGC 5953 Ser H178-2 Galaxy SAa: pec PB,CS,P OF D NEB  
 May 28 2008 31" 17mmT4 PB,ML,R,LARGE BNUC,GBMB,HISB MIDDLE,F\* OFF EDGE,COMP=5954,EXCELLENT PAIR,R=G

Apr 26 2006 31" 17mmT4 MB,MS,R,SMALL BNUC,F\* OFF ONE SIDE,MOD HISB MIDDLE,BM,PAIR=5954,R=G

NGC 5954 Ser H179-2 Galaxy SAB(rs)cd: pec PB,CS,F OF D NEB  
 May 28 2008 31" 17mmT4 MB,PL,ELONG,PATCH,UB,MHISB,COMP=5953,EXCELLENT PAIR,R=G

Apr 26 2006 31" 17mmT4 MF,MS,PATCH,UB,NND,MOD HISB,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,VERY SMALL BNUC,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^ pec CF,CS,LE,R,D\*INV  
 Sep 02 2005 31" 17mmT4 PB,ML,ELONG,LARGE BNUC,GMBM,HISB MIDDLE,INTERACTING=7285,R=G

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

## ARP 94

NGC 3226 Leo H28-2 Galaxy E2: pec PB,CL,R,DW/3227

Feb 25 1984 12.5" 12mm MB,PS,BNUC,BM,R,CLOSE PAIR/3227

Jan 30 1981 12.5" 24mm DIF,PB,PL,ELONG,FNUC,BRT HALO,PAIR/3227

Dec 03 1980 12.5" 24mm COMP CLOSE,PAIR/3227

# ARP Peculiar Galaxies

## ARP 94

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

## ARP 95

IC 4461	Boo		Galaxy Double System	
Mar 29 2006 31"	17mmT4		PF,PS,ELONG,VSFNUC,PAIRS=IC4462/PGC52120,R=F	
IC 4462	Boo		Galaxy L	
Mar 29 2006 31"	17mmT4		VF,VS,ELONG,VSFNUC,PAIRS=IC4461/PGC52120,R=P	
PGC 52120	Boo		Galaxy S	
Mar 29 2006 31"	17mmT4		VF,VS,OVAL,PATCH,UB,NND,PAIRS=IC4461/IC4462,R=P	

## ARP 96

PGC 20028	Cep		Galaxy Double System	
Dec 28 2008 31"	17mmT4		DIF,VF,MS,OVAL,PATHC,NND,PAIR=PGC20066,R=P	
PGC 20066	Cep		Galaxy E?	
Dec 28 2008 31"	17mmT4		PF,MS,OVAL,VSFNUC,VF* OFF EDGE,PAIR=PGC20028,R=F	

## ARP 97

PGC 38325	UMa		Galaxy SA(r)0- pec	
Apr 09 2008 31"	17mmT4		PF,MS,ELONG,SMALL FNUC,CLOSE COMP=PGC38327,SLIGHTLY BM,R=F	
PGC 38327	UMa		Galaxy SAB0- pec:	
Apr 09 2008 31"	17mmT4		PF,MS,ELONG,SMALL FNUC,CLOSE COMP=PGC38325,SLIGHTLY BM,R=F	

## ARP 98

PGC 5714	Tri		Galaxy C	
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,ELONG,SMALL BNUC,MOD HISB MIDDLE,EXCELLENT HICKSON CLUSTER,R=G	
NGC 7549	Peg		Galaxy SB(s)cd pec	PF,PS,R,*10,11P
Oct 30 2005 31"	17mmT4		DIF,VF,PS,PATCH,UB,NND,OTHERS PRESENT,VERIFY FOV AGAIN,R=P	
Sep 27 2005 31"	17mmT4		VB,VL,OVAL,PATCH,UB,NND,MOD HISB,EXCELLENT HICKSON CLUSTER,R=E	
NGC 7550	Peg	H181-3	Galaxy SA0-	CF,S,R
Sep 27 2005 31"	17mmT4		VB,VL,OVAL,LARGE BNUC,GMBM,HISB,EXCELLENT HICKSON CLUSTER,R=E	

## ARP 100

IC 18	Cet		Galaxy Sb	
Sep 16 2009 31"	17mmT4		MF,PS,ELONG,UB,NND,PAIR=IC19,R=F	
IC 19	Cet		Galaxy E	
Sep 16 2009 31"	17mmT4		MF,PS,R,SMALL BNUC,PAIR=IC18,R=F	

## ARP 101

PGC 56938	Ser		Galaxy S0-	
Apr 26 2006 31"	17mmT4		PF,PS,ELONG,LARGE FNUC,PAIRS=PGC/MAC,R=F	
PGC 56953	Ser		Galaxy S0 pec	
Apr 26 2006 31"	17mmT4		PF,PS,OVAL,PATCH,SMALL FNUC,PAIRS=PGC/MAC,R=F	

## ARP 102

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

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## ARP 102

PGC 60070	Her		Galaxy SABb pec	
Mar 26 2006	31"	17mmT4	MF,ML,OVAL,PATCH,UB,ELONG LIKE NUC,PAIRS=PGC'S,R=F	
PGC 60073	Her		Galaxy I	
Mar 26 2006	31"	17mmT4	VDIF,EF,ES,SUSP,STELLAR LIKE,PAIRS=PGC'S,R=P	

## ARP 103

PGC 59061	Her		Galaxy Sa	
Apr 26 2006	31"	17mmT4	PF,PS,R,LARGE FNUC,VERY CLOSE COMP OFF EDGE,COMP=PGC59062,PAIR=PGC'S,R=F	
PGC 59062	Her		Galaxy S0 pec:	
Apr 26 2006	31"	17mmT4	VF,ES,PATCH,ALMOST STELLAR,JUST BARELY TOUCHING PGC59061/PAIRS=PGC'S,R=P	
PGC 59065	Her		Galaxy SAB(rs)0+ pec	
Apr 26 2006	31"	17mmT4	PF,PS,VERY SMALL FNUC,F* CLOSE BY,PAIRS=PGC'S,R=F	

## ARP 104

NGC 5216	UMa	H841-2	Galaxy E0 pec	PB,S,VLE
Apr 03 2005	31"	17mmT4	PB,ML,R,LARGE BNUC,SMBM,MOD HISB MIDDLE,R=G	
NGC 5218	UMa	H842-2	Galaxy SB(s)b? pec	PB,PL,R,GBM
Apr 03 2005	31"	17mmT4	PB,ML,OVAL,UB,NND,SHISB,PAIR=5216,R=G	

## ARP 105

NGC 3561A	UMa		Galaxy S0 <sup>^</sup> :pec	VF, VL, 4 OF 4
Mar 16 2009	31"	17mmT4	MB,ML,R,LB NUC,SHISB MIDDLE,AGC,R=G	
Apr 07 2008	31"	17mmT4	MF,MS,OVAL,UB,NND,AGC,MANY OTHERS PRESENT,R=G	
Apr 09 2008	31"	17mmT4	PF,MS,OVAL,PATCH,NND,PAIRS=AGC1185,R=F	
NGC 3561B	UMa		Galaxy SA(r)a pec	VF,PL,4TH OF 4
Mar 16 2009	31"	17mmT4	MB,ML,R,LB NUC,HISB MIDDLE,AGC,R=G	
Apr 07 2008	31"	17mmT4	MF,MS,SMALL FNUC,AGC,MANY OTHERS PRESENT,R=G	
Apr 09 2008	31"	17mmT4	PF,MS,OVAL,LARGE FNUC,PAIRS=AGC1185,R=F	

## ARP 106

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

## ARP 107

PGC 32620	LMi		Galaxy Double System	
Apr 09 2008	31"	17mmT4	VF,PS,PATCH,UB,NND,COMP=PGC32638,DID NOT DETECT AT FIRST,R=P	
PGC 32628	LMi		Galaxy S	
Apr 09 2008	31"	17mmT4	PS,VS,ELONG,SMALL FNUC,COMP=PGC32620,R=F	

## 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,SMALL FNUC,PAIRS=PGC'S,R=F	

## ARP 110

PGC 69956	Aqr		Galaxy Sbc	
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# ARP Peculiar Galaxies

## ARP 110

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

## ARP 111

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

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

## ARP 112

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

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

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

## ARP 113

NGC 67 And Galaxy E: EF,VS,R  
 Nov 20 2003 31" 17mmT4 MB,PS,R,LARGE BNUC,SBM,HISB MIDDLE,NGC 70 CLUSTER OF 12,R=G

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

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

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

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

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

## ARP 114

NGC 2276 Cep Galaxy SAB(rs)c F,60",LBM  
 Sep 06 2002 12.5" 9mmT6 DIF,PF,VL,OVAL,UB,NND,CLOSE TO B\*,PAIR/2300/IC455

NGC 2300 Cep Galaxy SA0<sup>^</sup> PB,PL,LE,BM  
 Sep 06 2002 12.5" 9mmT6 VB,PL,R,MOD HISB,BM,PAIR/2276/IC455

## ARP 115

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

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

## ARP 116

NGC 4647 Vir H44-3 Galaxy SAB(rs)c PF,PL,LE115,NPOFDNEB  
 Mar 22 2004 12.5" 12mmT4 MF,ML,OVAL,PATCH,UB,CLOSE PAIR=M60,VERY SMALL FNUC,R=F  
 Mar 27 1982 12.5" 12mm

# ARP Peculiar Galaxies

## ARP 116

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

## ARP 117

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

## ARP 118

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

## ARP 119

PGC 4748	Psc		Galaxy E?	
Sep 18 2009	31"	17mmT4	MF,MS,OVAL,LARGE FNUC,PAIR=PGC4750,R=F	
PGC 4750	Psc		Galaxy Sdm:	
Sep 18 2009	31"	17mmT4	MB,MS,OVAL,LARGE FNUC,PAIR=IC4748,ANOTHER UNKNOWN GAL(?) 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
May 01 1981	12.5"	24mm	PB,PS,BNUC	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		
NGC 4438	Vir	H28-1	Galaxy SA(s)0/a pec:	B,CL,VLE,R,SF OF 2
May 01 1981	12.5"	24mm	DIF,PB,PL,BNUC,DARM	
Mar 27 1981	12.5"	24mm		
Jun 10 1980	6"	24mm		

## ARP 121

PGC 3547	Cet		Galaxy Sa pec sp	
Sep 17 2009	31"	17mmT4	PF,MS,ELONG,LARGE FNUC,PAIR=PGC3553,R=F	
PGC 3553	Cet		Galaxy S0	
Sep 17 2009	31"	17mmT4	PF,MS,OVAL,SMALL FNUC,* 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,SMALL BNUC,STELLAR LIKE NUC,TIGHT CORE,INTERACTING=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 TOGETHER TO S,NND,CLOSE COMP/6040A	
NGC 6040	Her		Galaxy SAB(s)c	VF,ES,F*CLOSE
May 18 2009	31"	17mmT4	MB,ML,ELONG,NND,INTERACTING=6039,AGC 2151,R=G	
Mar 29 2006	31"	17mmT4	MF,MS,ELONG,EDGE ON,UB,NND,COMP=6040B,AGC 2151,R=F	
Feb 27 1982	12.5"	16mm	EDIF,VF,VS,SIMILAR TO 6039,NND,CLOSE COMP 6040B	

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## ARP 123

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

## ARP 124

NGC 6361	Dra		Galaxy SAB: sp	VF,PS,ME,NEAR BET 2*
Apr 26 2006 31"	17mmT4	MF,ML,EDGE ON,UB,NND,THIN SLIVER,SOME CENTRAL BULGING,PAIR=PGC60040,R=G		
Jun 22 2003 12.5"	9mmT6	MB,ML,EDGE ON,NND,CENTRAL BULGE NOT DET,PATCHY AREAS,ELONG,R=F		
PGC 60040	Dra		Galaxy C	
Apr 26 2006 31"	17mmT4	PF,VS,R,PATCH,UB,NND,VF* OFF ONE SIDE,PAIR=6361,R=F		

## ARP 125

PGC 58664	Her		Galaxy Double System	
Apr 26 2006 31"	17mmT4	MF,PS,EDGE ON WITH A SLIGHT BEND,UB,NND,PAIR=PGC58674,R=F		
PGC 58674	Her		Galaxy Ring A	
Apr 26 2006 31"	17mmT4	PF,VS,R,UB,NND,PAIR=PGC58664/PGC59061,R=F		

## ARP 127

IC 1563	Cet		Galaxy S0 pec sp	
Sep 17 2009 31"	17mmT4	MF,MS,OVAL,LARGE FNUC,F* BETWEEN GALAXIES,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,LARGE FNUC,F* BETWEEN GALAXIES,PAIR=IC1563,R=G		

## ARP 128

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

## ARP 129

PGC 27546	Leo		Galaxy SB(r)c: pec	
Mar 10 2007 31"	17mmT4	MF,MS,OVAL,SMALL BNUC,VERY CLOSE COMP=PGC27547,CANNOT SEPERATE,OTHERS,R=F		
Feb 25 2004 31"	17mmT4	MF,VS,VERY SMALL BNUC,SHISB,STELL NUC,PAIR=2944,R=F		
PGC 27547	Leo		Galaxy SAB0^: pec	
Mar 10 2007 31"	17mmT4	MF,MS,OVAL,BNUC,B* ON TOP OF GAL,INTERACTING=PGC27546,CANNOT SEPERATE,R=F		

## ARP 130

PGC 177	Peg		Galaxy S	
Oct 06 2004 31"	17mmT4	MF,MS,SMALL FNUC,PAIRS=PGC178,IC5379,R=F		
PGC 178	Peg		Galaxy SB	
Oct 06 2004 31"	17mmT4	EDIF,EF,MS,PAIRS=PGC177,IC5379,SUSP,LOC GOOD,R=P		

## ARP 131

PGC 10561	Eri		Galaxy Sa	
Sep 16 2009 31"	17mmT4	MF,MS,LARGE BNUC,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,SMALL FNUC,PAIRS=PGC/MAC'S,R=F		
PGC 34651	Leo		Galaxy E pec:	
Mar 17 2007 31"	17mmT4	MF,PS,OVAL,PATCH,*NUC,* IN OR AROUND NUC,PAIRS=PGC/MAC'S,R=F		

# ARP Peculiar Galaxies

## ARP 133

NGC 541                      Cet                      Galaxy S0-:                      F,S,R,BM  
 Sep 18 2009 31"      17mmT4      MF,MS,OVAL,LARGE BNUC,SOMEWHAT HISB MIDDLE,AGC 194,R=F

## ARP 134

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

## ARP 135

NGC 1023                      Per                      H156-1      Galaxy SB(rs)0-                      VB,VL,VME,VVMBM  
 Feb 04 2005 31"      17mmT4      VF,EL,ELONG,LARGE BNUC,FARMS,GMBM,SEVERAL \*\*S IN GAL,COMP=1023A,R=E  
 Aug 22 1980 12.5"      24mm  
 Jul 24 1980 12.5"      24mm      BNUC,GREAT!!!  
 Jun 20 1980 12.5"      24mm      GOOD LOOKING GAL  
 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  
 Oct 03 1981 12.5"      12mm      MB,ML,ELONG,F\* OR PART OF GAL W SIDE,LOOKS LIKE SB GAL,VMBM,BRT NUC DET  
 Sep 07 1980 12.5"      24mm  
 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,MOD HISB,LARGE BRT NUC AREA,B\*\* IN FOV,R=G  
 May 06 1981 12.5"      24mm      DIF,VF,VS,FAINT HALO,JUST W OF A NICE DOUBLE \*

## ARP 137

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

## ARP 138

NGC 4015                      Com                      H323-3      Galaxy Double System                      F,VS,E,MBM  
 Mar 17 2009 31"      17mmT4      VB,VL,R,LARGE BNUC,INTER=PGC37702,SMBM,MOD HISB MIDDLE,R=G  
 Dec 28 2008 31"      17mmT4      MB,MS,R,LARGE BNUC,MOD HISB MIDDLE,BM,R=G  
 PGC 37702                      Com                      Galaxy S?  
 Mar 17 2009 31"      17mmT4      VF,VS,ELONG TO EDGE ON,PATCH,UB,VERY FAINT ELONG JET STICKING OUT OF N4015,R=P

## ARP 139

PGC 45463                      Com                      Galaxy S  
 Mar 20 2009 31"      17mmT4      MF,MS,ELONG,SM FNUC,VF\* OFF ONE TIP,GAL HAS A BEND IN IT,NUC REG OFF 1 SIDE,R=F

## ARP 140

NGC 274                      Cet                      H429-3      Galaxy SAB(r)0- pec                      PB,PS,SMBM,NP OF 2  
 Oct 13 2007 31"      17mmT4      VB,PL,R,LARGE BNUC,HISB,HALO AROUND NUC,PAIR=275,GMBM,R=G  
 Sep 24 1981 12.5"      16mm      PF,VS,INTERACTING W/ 275,NUC BRTER THAN 275,CAN JUST BARELY SPLIT THE TWO  
 NGC 275                      Cet                      Galaxy SB(rs)cd pec                      VF,S,R,SF OF 2  
 Oct 13 2007 31"      17mmT4      PB,VL,PATCH,UB,NND,MOD HISB,PAIR=274,R=G  
 Sep 24 1981 12.5"      16mm      INTERACTING W/ 274,DIF,VF,VS,NND,SLIGHTLY FAINTER THAN 274

## ARP 141

PGC 20460                      Cam                      Galaxy Ring

# ARP Peculiar Galaxies

## ARP 141

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

## ARP 142

MAC 0937+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,LARGE FNUC,COMP=2937,PAIR=MAC,R=G

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

## ARP 143

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

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

## ARP 144

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

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

## ARP 145

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

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

## ARP 146

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

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

## 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,ELONG,EDGE ON,BRIGHTER 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 SEPERATE WITH MAC1239+1635C,OTHERS,R=F

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

## ARP 150

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

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

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

PGC 71080 Peg Galaxy S?

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## ARP 150

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

## ARP 151

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

## ARP 152

NGC 4486 Vir M87 Galaxy E+0-1 pec VB,VL,R,MBM,3RD OF 3  
 Mar 19 2004 12.5" 12mmT4 MESSIER MARATHON 2004  
 May 01 1981 12.5" 24mm EB,EL,BNUC,1 OF 3 COMP  
 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,VERY LARGE,CAN ONLY SUSP,LG AREA OF F BACKGROUND HAZE,SUSP,R=P  
 Mar 20 2009 31" 17mmT4 VDF,VF,ML,OVAL,PATCH,6 DEG ABOVE HOR,\* IN GAL,F GLOW DET,R=P

## ARP 155

NGC 3656 UMa H782-2 Galaxy (R')I0: pec PB,S,R,VGBM,\*12P  
 Apr 03 2005 31" 17mmT4 PB,ML,R,UB,NND,MOD HISB,CLOSE COMP=PGC34985,PAIRS=PGC'S/MAC,R=G  
 PGC 34985 UMa Galaxy  
 Apr 03 2005 31" 17mmT4 VF,VS,UB,NND,CLOSE COMP=3656,MAKES 3656 LOOK ELONG,R=P

## ARP 156

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

## ARP 157

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

## ARP 158

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

## ARP 159

NGC 4747 Com H344-2 Galaxy SBcd? sp pec F,PL,LE  
 Mar 20 2009 31" 17mmT4 MB,PL,ELONG,ALMOST UB,LG F CENTRAL REGION W/FAINTER EXTENSIONS BOTH ENDS,R=G

## ARP 160

NGC 4194 UMa H867-2 Galaxy IBm pec PB,VS,VSBM\*12  
 Apr 23 2003 12.5" 9mmT6 PB,ML,OVAL,R,BNUC,MOD HISB,GMBM,R=G

## ARP 161

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

## ARP 162

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

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## ARP 163

NGC 4670 Com H328-3 Galaxy SB(s)0/a pec: PF,CS,R,BM,R,P OF 2  
 Mar 20 2009 31" 17mmT4 MB,MS,OVAL,BNUC,BRT BAR LIKE NUC,SOMEWHAT HISB MIDDLE,PAIR=4673,R=G

## ARP 164

NGC 455 Psc Galaxy S? F,VS,ALMSTELL  
 Sep 18 2009 31" 17mmT4 MB,MS,OVAL,LARGE BNUC,MOD HISB MIDDLE,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-ROUND,MOD HISB

## ARP 166

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

NGC 751 Tri Galaxy E pec PF,ES,R,BM,DW/750  
 Dec 04 2004 31" 17mmT4 PB,ML,R,BNUC,HISB,GMBM,COMP OR INTERACTING WITH 750,R=G

## ARP 167

NGC 2672 Cnc H48-2 Galaxy E1-2 PB,PL,IR,MBM  
 Mar 26 2006 31" 17mmT4 VB,VL,R,LBNUC,F\* OFF EDGE,CLOSE COMP=2673,MOD HISB ARMS,BM,HISB MID,MINI M51,R=E  
 Feb 21 1984 12.5" 12mm SAME,ANOTHER VF\* TO E 1 GAL DIA,SBM,DIF,MF,PS,ELONG,SN?  
 Oct 24 1981 12.5" 16mm EDIF,PF,VS,F\*N 1 GAL DIA,SOMEWHAT BM  
 Dec 03 1980 12.5" 24mm  
 NGC 2673 Cnc Galaxy E0 pec VF,VS,CLOSE F2672  
 Mar 26 2006 31" 17mmT4 MF,MS,SBNUC,CLOSE COMP=2672,MINI M51,R=G

## ARP 168

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

## ARP 169

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

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# ARP Peculiar Galaxies

## ARP 170

NGC 7578A	Peg	Galaxy S0 <sup>^</sup> pec	VF,AM VS ST
Sep 27 2005 31"	17mmT4	MB,PS,ELONG,LARGE FNUC,CLOSE COMP=7578B,R=F	
NGC 7578B	Peg	Galaxy E1:	
Sep 27 2005 31"	17mmT4	PF,PS,UB,SHISB,F* ON EDGE,CLOSE COMP=7578A/PGC,R=F	
PGC 70936	Peg	Galaxy S0?	
Sep 27 2005 31"	17mmT4	VF,VS,F* IN GAL,CLOSE COMP=7578B,R=P	
Sep 27 2005 31"	17mmT4	VF,VS,F* IN GAL,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,LARGE FNUC,PAIR=IC1042,R=G	

## ARP 172

IC 1178	Her	Galaxy S0- pec?	
Mar 29 2006 31"	17mmT4	MF,MS,ELONG,OVAL,LARGE FNUC,INTERACTING=IC1181,AGC 2151,R=F	
IC 1181	Her	Galaxy S0- pec?	
Mar 29 2006 31"	17mmT4	PF,PS,ELONG,OVAL,SMALL FNUC,INTERACTING=IC1178,AGC 2151,R=F	

## ARP 173

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

## ARP 174

MAC 0958+2852	Leo	Galaxy	
Mar 20 2007 31"	17mmT4	MF,PS,R,*NUC,VERY CLOSE COMP=3068,R=F	
Mar 10 2007 31"	17mmT4	PF,PS,PATCH,UB,VERY SMALL FNUC,PAIRS=3608/MAC,R=F	
NGC 3068	Leo	H293-3 Galaxy S0-: pec	EEF,ES,STELLAR,( )
Mar 20 2007 31"	17mmT4	MB,MS,R,LARGE BNUC,VERY CLOSE COMP=MAC,SOMEWHAT HISB MIDDLE,R=F	

## ARP 175

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

## ARP 176

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

## ARP 177

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

# ARP Peculiar Galaxies

## ARP 178

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

## ARP 179

MAC 0302-0441	Eri		Galaxy	
Sep 16 2009 31"	17mmT4	PF,PS,OVAL,UB,NND,ARP 179,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,SOMEWHAT BM,F* ON EDGE,PAIR=3212/MAC,R=F		

## ARP 182

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

## ARP 183

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

## ARP 184

NGC 1961	Cam	H747-3	Galaxy SAB(rs)c	CF,PL,IF,MBM,ER,*INV
Jan 30 2003 12.5"	9mmT6	MF,VL,OVAL,PATCH,UB,SHISB,F* IN GAL,CLUSTER 1 OF 8,R=G		
Dec 21 1981 12.5"	16mm	DIF,VF,PS,PATCHY,SBM,F* JUST BESIDE NUC,LINE OF 2F*S TO S		
Oct 03 1981 12.5"	16mm	MF,PL,F*E SIDE,NNS,PATCHY,SLIGHTLY OVAL,F* S PART OF GAL		
Sep 18 1980 12.5"	24mm			

## ARP 185

NGC 6217	UMi	H280-1	Galaxy (R)SB(rs)bc	B,CL,LE,SLBM
Jun 22 2003 12.5"	9mmT6	PB,VL,R,FNUC,SHISB,FACE ON,SMALL FAINT NUC,DUST SUSP,FARMS,R=E		
Aug 13 1982 12.5"	16mm	PF,PS,DIF,STELL NUC,OVAL,SBM,NO *S		

## ARP 188

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

## ARP 189

NGC 4651	Com	H12-2	Galaxy SA(rs)c	CB,L,E90,GBM,R
Mar 20 2009 31"	17mmT4	PF,ML,OVAL.SBNUC,MHISB,P AREAS IN ARMS DET,SMBM,SPIRAL ARMS,GRANDULAR 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	

# ARP Peculiar Galaxies

## ARP 190

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

## ARP 191

PGC 33670 Leo Galaxy SAB0- pec  
 Mar 17 2007 31" 17mmT4 MF,MS,R,VERY SMALL BNUC,CAN JUST SPLIT THE TWO,PAIR=PGC33677,R=F

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

## ARP 192

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

## ARP 193

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

## ARP 194

MAC 1157+3622 UMa Galaxy  
 Apr 09 2008 31" 17mmT4 EF,VS,UB,INTERACT=PGC37639,CAN JUST BARELY SPERATE,R=P  
 Apr 09 2008 31" 17mmT4 VF,VS,OVAL,UB,NNC,COMP=PGC37639,R=P

PGC 37639 UMa Galaxy S?  
 Apr 09 2008 31" 17mmT4 VF,MS,PATCH,UB,NND,INTERACT=MAC,CAN JUST BARELY SEPERATE,R=F  
 Apr 09 2008 31" 17mmT4 PF,MS,PATCH,UB,NND,PAIRS=PGC/MAC'S,COMP=MAC,R=F

## ARP 195

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

## ARP 196

PGC 46036 Com Galaxy  
 Mar 20 2009 31" 17mmT4 PF,PS,OVAL,VSM FNUC,INTERACT=PGC46054,CANNOT SEPERATE,OTHERS,R=F

PGC 46054 Com Galaxy C  
 Mar 20 2009 31" 17mmT4 EF,VS,PATCH,VERY CLOSE INTERACT=PGC46036,CANNOT SEPERATE OR DET,SUSP,R=P

## ARP 197

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

## ARP 198

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

## ARP 199

NGC 5544 Boo H419-2 Galaxy (R)SB(rs)0/a F,PS,E80,DW/45 ORBIN  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,VF\* IN GAL,INTERACTING=5545,R=G

NGC 5545 Boo Galaxy SA(s)bc: E,LBM,DW/44 OR BIN  
 Mar 29 2006 31" 17mmT4 MF,MS,EDGE ON,UB,NND,SHISB,INTERACTING=5544,R=G

## ARP 200

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

## ARP 201

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

PGC 1504 Psc Galaxy L

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## ARP 201

PGC 1504 Psc Galaxy L  
 Sep 16 2009 31" 17mmT4 PF,VS,PATCH,PAIR=PGC1503,CAN JUST BARELY SEPERATE,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,SLIGHTLY CENTRAL BULGE,COMP=2719A,R=G

NGC 2719A Lyn Galaxy Im pec:  
 Nov 24 2003 31" 17mmT4 MF,PS,OVAL,UB,SHISB,COMP=2719,R=G

## ARP 203

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

## ARP 204

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

PGC 46811 Cam Galaxy S  
 Apr 06 2008 31" 17mmT4 VDIF,VF,PS,PATCH,UB,NND,PAIR=PGC46729,R=P

## ARP 205

NGC 3448 UMa H233-1 Galaxy I0 B,PL,ME67,GBM  
 Apr 07 2008 31" 17mmT4 VF,VL,ELONG,LARGE BNUC,HISB,GOOD DEF,DUST AREA DET,CENTRAL BULGE,BROKEN,R=E  
 Mar 15 1985 12.5" 16mm DIF,VF,MS,EDGE ON,UB,SLIGHTLY ELONG,NND,BETWEEN A TRI OF VERY F\*S

PGC 32740 UMa Galaxy Im  
 Apr 07 2008 31" 17mmT4 EEF,VS,JUST OFF TIP OF 3448,AT ZENITH,LOC GOOD, NO AV HOLD,SUSP,R=P

## ARP 206

NGC 3432 LMi H172-1 Galaxy SB(s)m sp PB,PL,VME40,\*\*NR SP  
 Apr 09 2008 31" 17mmT4 VB,VL,EDGE ON,UB,NND,HISB,2F\*S A TIP,2F\*S BOTH SIDES,SLIGHTLY BOWED,OTHERS,R=E  
 Oct 22 1982 12.5" 12mm SAME,2\*S AT S TIP  
 Oct 22 1982 12.5" 16mm DIF,MF,MS,ELONG,UB,2\*S AT BOTH ENDS  
 Dec 03 1980 12.5" 24mm

PGC 32617 LMi Galaxy Dwarf  
 Apr 09 2008 31" 17mmT4 EDIF,EF,VS,PATCH,AV,OFF TIP OF 3432,AV ONCE,DOES NOT HOLD,R=P

## ARP 207

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

## ARP 208

PGC 59113 Her Galaxy S  
 Apr 26 2006 31" 17mmT4 PF,PS,PATCH,NND,COMP=PGC59114,CANNOT SPLIT,ODD PATCHY SHAPE,R=F

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

## ARP 209

MAC 1605+2032 Her Galaxy  
 Apr 26 2006 31" 17mmT4 MB,MS,NND,MHISB,INTERACTING=6052,ODD SHAPE,PATCHY,OVAL WITH BUMPS,LOBS,R=G

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

## ARP 210

NGC 1569 Cam H768-2 Galaxy IBm PB,S,LE,BNM,\*9.5N1'  
 Jan 30 2003 12.5" 9mmT6 VB,PL,OVAL,BNUC,MOD HISB,TAD POLE SHAPE,F\*IN EDGE,DUST LANE SUSP,R=G  
 Oct 03 1981 12.5" 16mm MF,PS,ELONG,SOUTH OF B\*,HISB,NND

# ARP Peculiar Galaxies

## ARP 210

NGC 1569 Cam H768-2 Galaxy IBm PB,S,LE,BNM,\*9.5N1'  
 Sep 18 1980 12.5" 24mm

## ARP 211

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

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

## ARP 212

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

## ARP 213

IC 356 Cam Galaxy SA(s)ab pec  
 Jan 30 2003 12.5" 9mmT6 PB,VL,OVAL,FNUC,SMALL NUC,UB HALO,PAIR=PGC14531,R=G

## ARP 214

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

## ARP 215

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

## ARP 216

NGC 7679 Psc Galaxy SB0 pec: PB,S,R,MBMN,STELL  
 Sep 17 2009 31" 17mmT4 MB,MS,R,BNUC,HISB MIDDLE,PAIRS=7682/MAC,R=G  
 Sep 27 1981 12.5" 16mm MF,VS,BNUC,F\* NE AND W SEVERAL GAL DIA,SMBM  
 NGC 7682 Psc Galaxy SB(r)ab EF,\*14P13.7S,LN  
 Sep 17 2009 31" 17mmT4 MF,MS,ELONG,LARGE FNUC,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 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,SOMEWHAT HISB,PAIRS=MAC'S,R=F

## ARP 221

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

## ARP 222

NGC 7727 Aqr H111-1 Galaxy SAB(s)a pec PB,PL,IR,MBM

# ARP Peculiar Galaxies

## ARP 222

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

## ARP 223

NGC 7585 Aqr H236-2 Galaxy (R')SA(s)0+ pec PB,PS,IR,GBM  
 Nov 11 2009 31" 17mmT4 VB,VL,OVAL,LARGE BNUC,MOD HISB,SMALL TIGHT VB 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,LARGE BNUC,MOD HISB,SMBM,HISB MIDDLE,PAIRS=3916,PGC37013,R=G

## ARP 225

NGC 2655 Cam H288-1 Galaxy SAB(s)0/a VB,CL,LE90,GSVMBM  
 Oct 16 1982 12.5" 12mm F\*E 1 GAL DIA,ARMS MORE PRODOMENANT  
 Oct 16 1982 12.5" 16mm MB,MS,BNUC,GMBM,OBLONG,DIM HALO  
 Dec 21 1981 12.5" 16mm PB,ML,R,BM,HISB  
 Sep 18 1980 12.5" 24mm

## ARP 226

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

## ARP 227

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

## ARP 229

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

## ARP 230

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

## ARP 231

IC 1575A Cet Galaxy S  
 Sep 17 2009 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,SHISB,PAIR=IC1575B,CANNOT SEPERATE,ON TOP OF EACH OTHER,APPEAR AS ONE GAL,R=F  
 IC 1575B Cet Galaxy S  
 Sep 17 2009 31" 17mmT4 MF,MS,OVAL,LARGE FNUC,SHISB,PAIR=IC1575A,CANNOT SEPERATE,ON TOP OF EACH OTHER,APPEAR AS ONE GAL,R=F

## ARP 232

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

## ARP 233

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## ARP 233

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

## ARP 234

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

## ARP 235

NGC 14 Peg H591-2 Galaxy (R)IB(s)m pec VF,PS,R,GLBM  
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,TOUCHING=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,TOUCHING=IC1623B,PAIRS=IC1623B,IC1623,R=G

IC 1623B Cet Galaxy L  
Sep 18 2009 31" 17mmT4 MB,ML,OVAL,PATCH,UB,NND,TOUCHING=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,VERY SMALL FNUC,INTERACTING,CANNOT SEPERATE,KEEP B\* OUT OF FOV,R=F

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

## ARP 238

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

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

## ARP 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,SOMEWHAT HISB,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,BROKEN OR PATCHY OUTER EDGE,PAIR=5258,R=E

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

## ARP 241

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

## ARP 242

NGC 4676A Com Galaxy S0 pec?  
Mar 20 2009 31" 17mmT4 MB,ML,EDGE ON,SM BNUC,NUC AT END OF GAL,INTERACT=4676B,R=G

NGC 4676B Com Galaxy SB(s)0/a pec  
Mar 20 2009 31" 17mmT4 MB,MS,OVAL,LG FNUC,INTERACT=4676A,NUC NOT CENTERED,FT PATCH OFF ONE SIDE,R=G

## ARP 243

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## ARP 243

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

## ARP 244

NGC 4038 Crv H28.1-4 Galaxy SB(s)m pec PB,CL,R,VGBM  
 Mar 16 2009 31" 17mmT4 VB,VL,ELONG,PATCHY AREAS IN GAL,SHISB,NND,DARK AREA SPLITS TWO,INTER=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,ELONG,BOTH NUC OF BOTH GAL SEEN,RING TAIL GAL,ARMS DET,PAIR/4039  
 NGC 4039 Crv H28.2-4 Galaxy SA(s)m pec PF,PL  
 Mar 16 2009 31" 17mmT4 VB,VL,ELONG,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 GAL

## ARP 245

NGC 2992 Hya H277-3 Galaxy Sa pec CF,S,R,BM,STEL,P OF2  
 Mar 29 2006 31" 17mmT4 PB,PL,ELONG,LARGE SOFT NUC,SOMEWHAT HISB MIDDLE,R=G  
 NGC 2993 Hya H278-3 Galaxy Sa pec CF,S,R,BM,STEL,F OF2  
 Mar 29 2006 31" 17mmT4 MB,ML,OVAL,SMALL BNUC,BM,R=G

## ARP 246

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

## ARP 247

IC 2338 Cnc Galaxy SAB(s)cd pec  
 Mar 26 2006 31" 17mmT4 MB,MS,ELONG,LFNUC,SHISB,COMP=IC2339,END TO END,SMBM,NICE PAIR,R=F  
 IC 2339 Cnc Galaxy SAB(s)cd pec  
 Mar 26 2006 31" 17mmT4 MB,MS,ELONG,LARGE BNUC,MOD HISB,COMP=IC2338,SEVERAL F\*\*S OFF SIDE OF NUC,R=F

## ARP 248

PGC 36723 Vir Galaxy SAB(rs)b? pec  
 May 18 2007 31" 17mmT4 MF,ML,UB,NND,PAIRS=PGC36733/PGC36742,R=F  
 PGC 36733 Vir Galaxy SB(s)b: pec  
 May 18 2007 31" 17mmT4 MB,ML,OVAL,PATCH,UB,NND,MOD HISB,PAIRS=PGC36723/PGC36742,R=G  
 PGC 36742 Vir Galaxy SB(s)c pec  
 May 18 2007 31" 17mmT4 PF,PS,PAIRS=PGC36733/PGC36723,R=P

## ARP 249

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

## ARP 250

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

## ARP 251

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

# ARP Peculiar Galaxies

## ARP 252

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

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

## ARP 253

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

## ARP 254

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

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

## ARP 255

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

## ARP 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,LARGE FNUC,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,VERY CLOSE COMP,SHISB MID,R=F

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

## ARP 258

MAC 0239+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,ALMOST STELLAR LIKE,BRTER OF THE 3 ON TOP OF EACH OTHER,R=P  
 Oct 20 2006 31" 17mmT4 VDIF,EF,VS,PATCH,UB,NND,AV,HICKSON 18C,OTHERS PRESENT,HARD TO SEPERATE,R=P

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

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

## ARP 259

NGC 1741 Eri Galaxy Pec VF,VS,VSEXCENT PTINV  
 Dec 28 2008 31" 17mmT4 PF,ELONG,NND,INTER=PGC16573,CAN BARELY SEPERATE W/AV,TOGETHER IRR SHAPE,R=F

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

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## ARP 259

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

PGC 16573 Eri Galaxy SB(s)m pec:  
Dec 28 2008 31" 17mmT4 PF,ELONG,LBNUC,INTER=1741,CAN BARELY SEPERATE W/AV,TOGETHER 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 GAL,R=F

## ARP 262

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

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

## ARP 263

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

## ARP 264

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

## ARP 265

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

## ARP 266

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

## ARP 267

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

## ARP 268

PGC 23324 UMa Galaxy Dwarf Irr  
Dec 28 2008 31" 17mmT4 VDIF,EF,ML,NND,IRR,3\*IN TRI IN CENT OF VF NEB PATCH,BRTER 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,INTERACTING WITH 4490

Mar 27 1981 12.5" 24mm

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

Mar 27 1981 12.5" 24mm

Oct 31 1980 12.5" 24mm

## ARP 270

NGC 3395 LMi H116-1 Galaxy SAB(rs)cd pec: CB,PS,ILE,1ST OF 2

# ARP Peculiar Galaxies

## ARP 270

NGC 3395 LMi H116-1 Galaxy SAB(rs)cd pec: CB,PS,ILE,1ST OF 2

Feb 15 2004 31" 17mmT4 VB,VL,OVAL,LARGE BNUC,HISB,GMBM,INTERACTING 3396,R=E

Jan 08 2003 12.5" 9mmT6 MB,PL,BNUC,OVAL,SMALL BRT NUC,HISB,COMP=3396

Oct 22 1982 12.5" 24mm DIF,VF,MS,ELONG,2 PARTS OR INTERACTING GAL,N PART STELL NUC OR \*

Dec 03 1980 12.5" 24mm PAIR/3396

NGC 3396 LMi H117-1 Galaxy IBm pec PB,PS,ILE,2ND OF 2

Feb 15 2004 31" 17mmT4 VB,VL,ELONG,LARGE BNUC,HISB,GMBM,INTERACTING 3395,R=E

Jan 08 2003 12.5" 9mmT6 MB,PL,OVAL,HISB,NND,UB,COMP=3395

Dec 03 1980 12.5" 24mm PAIR/3395

## ARP 271

NGC 5426 Vir H309-2 Galaxy SA(s)c pec PF,CL,R,GMBM,SP OF 2

Apr 26 2006 31" 17mmT4 MF,MS,ELONG,LARGE FNUC,PATCHY,IRR IN SHAPE,FAINT HALO,PAIR=5427,R=G

NGC 5427 Vir H310-2 Galaxy SA(s)c pec PF,CL,R,NF OF 2

Apr 26 2006 31" 17mmT4 PB,VL,R,LFNUC,FAINT HALO,SPRIAL ARMS DET,PATCHY AREAS,MOD HISB MID,PAIR=5426,R=E

## ARP 272

IC 1179 Her Galaxy SB(rs)cd

May 19 2009 31" 17mmT4 MF,ML,OVAL,PATCH,UB,NND,LG OVAL,COMP=6050,CANNOT SEPERATE,AGC 2151,R=F

Mar 29 2006 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,INTERACTING=6050,AGC 2151,APPEAR AS ONE,R=F

NGC 6050 Her Galaxy SA(s)c EEF,S,R,VDIFFIC

May 19 2009 31" 17mmT4 MF,ML,OVAL,PATCH,UB,NND,LG OVAL,COMP=IC1179,CANNOT SEPERATE,AGC 2151,R=F

Mar 29 2006 31" 17mmT4 DIF,PF,ML,OVAL,PATCH,UB,NND,INTERACTING=IC1179,AGC 2151,APPEAR AS ONE,R=F

## ARP 273

PGC 8961 And Galaxy SA(s)b pec

Oct 25 2006 31" 17mmT4 PB,ML,ELONG,SMALL BNUC,2F\*S BOTH ENDS,SMBM,MOD HISB MIDDLE,PAIR=PGC8970,R=G

PGC 8970 And Galaxy SB

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

## ARP 274

NGC 5679 Vir H894-2 Galaxy Sb VF,S,R,\*12ATT

May 18 2007 31" 17mmT4 MF,PATCH,UB,SOMEWHAT BM,PATCHY,INTERACTING=5679A,R=F

NGC 5679A Vir Galaxy Sc

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

PGC 52129 Vir Galaxy

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

## ARP 275

MAC 0925-1159 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\*4'F

Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,2VF\*S IN GAL,BRT \* OTHER SIDE,COMP=MAC,R=F

## ARP 276

IC 1801 Ari Galaxy SBb:

Oct 04 2005 31" 17mmT4 MF,MS,ELONG,UB,NND,CLOSE COMP=935,R=F

NGC 935 Ari Galaxy Scd: PB,PS,R,\*F6S

Oct 04 2005 31" 17mmT4 PB,ML,MOD HISB,CLOSE COMP=IC1801,F\* IN GAL EDGE,SMALL PATCH NUC,R=G

Oct 23 1982 12.5" 16mm VDIF,PF,PS,B\* CLOSE,\* OR NUC SUSP,2 GAL SUSP

## ARP 277

NGC 4809 Vir Galaxy Im pec F,DNEB W/4810

May 18 2007 31" 17mmT4 MF,MS,EDGE ON,UB,NND,CLOSE COMP=4810,R=F

# ARP Peculiar Galaxies

## ARP 277

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

## ARP 278

NGC 7253A Peg Galaxy SB? VF,PE  
 Oct 20 2006 31" 17mmT4 MF,PL,ELONG,LARGE FNUC,INTERACTING=7253B,SOMEWHAT HISB MIDDLE,R=G  
 Sep 18 1982 12.5" 16mm VDIF,PF,MS,2F\*S AT EACH END,INTERACTING PAIR(7253B),PATCH,OVAL

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

## ARP 280

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

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

## ARP 281

NGC 4627 CVn H659-2 Galaxy E4 pec F,S,R,NP OF 2  
 Mar 17 2007 31" 17mmT4 VB,PL,OVAL,R,LARGE NUC,SHISB,LARGE PATCHY NUC,PAIR=4631,R=G

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

## ARP 282

IC 1559 And Galaxy SAB0 pec:  
 Oct 05 2002 12.5" 9mmT6 VF,ES,OVAL,PATCH,COMP=169

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

## ARP 283

NGC 2798 Lyn H708-2 Galaxy SB(s)a pec PB,S,STELLAR  
 Dec 26 2003 31" 17mmT4 PB,PL,R,LARGE BNUC,MHISB,PAIR=2799,R=G

NGC 2799 Lyn Galaxy SB(s)m? F,CL,VME,F2798  
 Dec 26 2003 31" 17mmT4 MF,VL,EDGE ON,UB,NND,F\* OFF EDGE,SLIGHT CENTRAL BULGE,PAIR=2798,R=G

## ARP 284

NGC 7714 Psc Galaxy SB(s)b: pec PB,S,R,PSBM,\*12SP6SF  
 Sep 17 2009 31" 17mmT4 VB,PL,OVAL,BNUC,IRR,SUDDENLY MBM,VERY R BRT NUC 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,ELONG,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,ELONG,UB,NND,HISB,PAIR=2856,R=G

NGC 2856 UMa H713-3 Galaxy S? CF,CS,LE,BM  
 Apr 07 2008 31" 17mmT4 PB,PL,OVAL,UB,NND,HISB,PAIR=2854,R=G

## ARP 286

NGC 5560 Vir H579-2 Galaxy SB(s)b pec PF,CL,E,GBM  
 Apr 26 2003 12.5" 9mmT6 DIF,PF,VL,ELONG,UB,PATCH,NND,PAIR/5566/5569,R=F

NGC 5566 Vir H144-1 Galaxy SB(r)ab B,PL,R,PSBM,R,\*F1.5'  
 Apr 26 2003 12.5" 9mmT6 VB,PL,R,BNUC,VERY HISB,ARMS DET,LARGE NUC,VMBM,PAIR/5560/5569,R=E  
 Jun 11 1983 12.5" 20mm MB,PL,ELONG,BNUC,B\*SW 1 GAL DIS.LARGE BRT NUC,HISB TOWARDS MID,PAIR/5576

# ARP Peculiar Galaxies

## ARP 286

NGC 5569 Vir Galaxy SAB(rs)cd: EF,PL,R  
 Apr 26 2003 12.5" 9mmT6 EDIF,EF,ML,PATCH,AV,COMES AND GOES,DIFFICULT TO LOC,PAIR/5566/5560,R=P

## ARP 287

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

NGC 2735A Cnc Galaxy Im: pec  
 Mar 26 2006 31" 17mmT4 PF,VS,ELONG,SFNUC,PAIR=2735,R=F

## ARP 288

MAC 1334+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,SFNUC,THICK NUC REGION,R=G

NGC 5222 Vir H85-3 Galaxy E CF,S,R,BM,2ND OF 3  
 May 18 2007 31" 17mmT4 MB,MS,OV,AL,LBNUC,CLOSE COMP=MAC,SOMEWHAT HISB,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,CENTRAL BULGE,F\* OFF ONE TIP,R=G

## ARP 290

IC 195 Ari Galaxy SAB0<sup>^</sup>  
 Oct 04 2005 31" 17mmT4 VB,PL,R,SMALL BNUC,HISB MIDDLE,PAIR-IC196,R=G

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

## ARP 291

PGC 31930 Leo Galaxy SB?  
 Mar 26 2006 31" 17mmT4 MB,ML,OV,AL,PATCH,PATCHY AREAS,VAR BRTNESS,LARGE NUC 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,LARGE F NUC AREA,LARGER 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,ELONG,PATCH,UB,NND,COMP=6285,R=F

## ARP 294

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

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

## ARP 295

PGC 72139 Aqr Galaxy Sc? pec sp  
 Sep 17 2009 31" 17mmT4 MF,ML,EDGE ON,UB,NND,SLIGHT CENTRAL BULGE,PAIRS=IC1505/OTHERS,R=G

Sep 12 2007 31" 17mmT4 MF,MS,EDGE ON,SLIGHT CENTRAL BULGE,BROKEN 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 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

# ARP Peculiar Galaxies

## ARP 296

PGC 35345 UMa Galaxy B  
Apr 03 2005 31" 17mmT4 VF,PS,OVAL,PATCH,UB,NND,PAIRS=MAC,IC,3690,R=P

## ARP 297

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

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

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

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

## ARP 298

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

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

Sep 21 1984 12.5" 16mm DIF,VF,VS,R,SLIGHT PATCH,VMBM,VERY FAINT HALO

Jul 07 1981 12.5" 24mm DIF,EF,ES,EXT FAINT HALO

## ARP 299

IC 694 UMa Galaxy SBm? pec  
Apr 07 2008 31" 17mmT4 VF,PL,R,LARGE BNUC,HISB MIDDLE,PAIRS=3690/PGC35345,R=G

Apr 03 2005 31" 17mmT4 PB,MS,ELONG,SMALL BNUC,HISB MIDDLE,INTERACTING=3690,PAIRS=PGC/MAC,R=G

Mar 15 1985 12.5" 16mm INTERACTING WITH 3690

NGC 3690 UMa H247-1 Galaxy IBm pec PB,PS,VLE80,PGBM  
Apr 07 2008 31" 17mmT4 VB,PL,OVAL,UB,NND,HISB,PAIRS-IC694/PGC35345,R=G

Apr 03 2005 31" 17mmT4 VB,ML,OVAL,R,UB,NND,HISB,INTERACTING=IC694,PAIRS=PGC/MAC,R=G

Mar 15 1985 12.5" 16mm PF,PS,SLIGHTLY ELONG,2 NUC DET,INTERACTING GAL = IC 694,MOD HISB!!

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

## ARP 300

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

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

## ARP 301

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

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

## ARP 302

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

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

## ARP 303

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

# ARP Peculiar Galaxies

## ARP 303

IC 564 Sex Galaxy SA(s)cd? pec  
 Mar 16 2009 31" 17mmT4 MB,ML,ELONG,NND,SHISB,SLIGHTLY LARGER 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  
 Oct 24 1981 12.5" 12mm VDF,MF,PS,S OF 2B\*S,R,NND,PATCHY,MOD HISB,OBLONG

## ARP 305

NGC 4016 Com Galaxy SBdm: VF  
 Dec 28 2008 31" 17mmT4 MB,ML,OVAL,PATCH,UB,NND,MOD HISB,PAIR=4017,R=G  
 NGC 4017 Com H369-2 Galaxy SABbc F,L,E,GBFM  
 Dec 28 2008 31" 17mmT4 PB,PL,ELONG,OVAL,UB,NND,PATCHY,PAIR=4016,R=G

## ARP 307

NGC 2872 Leo H57-2 Galaxy E2 PF,PS,R,BM  
 Mar 10 2007 31" 17mmT4 PB,ML,ELONG,LARGE BNUC,MOD HISB,MBM,PAIRS=2875/2873,R=G  
 NGC 2873 Leo Galaxy Sb VF,VS,R,N OF E NEB  
 Mar 10 2007 31" 17mmT4 VF,MS,EDGE ON,UB,NND,PAIRS=2875/2875,R=F  
 NGC 2875 Leo H58-2 Knot in Galaxy SB(r)bc EF,NF 2874  
 Mar 10 2007 31" 17mmT4 PB,ML,ELONG,SMALL BNUC,SHISB,ELONG WITH PATCH OR BUMP OFF NUC,PAIRS=NGC'S,R=G

## ARP 308

NGC 545 Cet H448-2 Galaxy SA0- STELLAR,P OF DNEB  
 Sep 18 2009 31" 17mmT4 MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,AGC 194,R=G  
 NGC 547 Cet H449-2 Galaxy E1 STELLAR,F OF DNEB  
 Sep 18 2009 31" 17mmT4 MB,ML,R,LARGE BNUC,MOD HISB MIDDLE,AGC 194,R=G

## ARP 309

NGC 942 Cet Galaxy S0+ pec: VF,R,(NEB D\*)  
 Sep 12 2007 31" 17mmT4 MF,MS,OVAL,SMALL BNUC,VERY CLOSE PAIR,PAIR=943,R=F  
 NGC 943 Cet Galaxy I0? pec VF,R,(NEB D\*)  
 Sep 12 2007 31" 17mmT4 PF,MS,ELONG,LARGE FNUC,VERY CLOSE PAIR,ALMOST TOUCHING,PAIR=942,R=F

## ARP 310

IC 1259 Dra Galaxy S0 pec?  
 Jun 24 2003 12.5" 9mmT6 MB,MS,SHISB,VERY CLOSE COMP=PGC60325,OTHER PAIRS PRESENT,BRIGHTEST OF GROUP,R=G  
 PGC 60325 Dra Galaxy S?  
 Jun 24 2003 12.5" 9mmT6 MB,MS,SHISB,ON TIP OF IC1259,BOTH APPEAR AS ELONG GAL,COMP=IC1259,OTHERS,R=G

## ARP 311

IC 1258 Dra Galaxy Sab?  
 Jun 24 2003 12.5" 9mmT6 MB,MS,OVAL,PATCH,UB,NND,PAIRS=IC1259/PGC60325/PGC60332,R=G  
 PGC 60332 Dra Galaxy  
 Jun 24 2003 12.5" 9mmT6 DIF,EF,VS,PATCH,AV,PAIR=IC1258 AND OTHERS,R=P

## ARP 312

PGC 59071 Her Galaxy S  
 Apr 26 2006 31" 17mmT4 VF,VS,PATCH,\* NUC,CLOSE COMP'S=PGC'S,R=P  
 PGC 59072 Her Galaxy S  
 Apr 26 2006 31" 17mmT4 PF,PS,OVAL,R,LARGE FNUC,,CLOSE COMP'S=PGC'S,R=P  
 PGC 59073 Her Galaxy S  
 Apr 26 2006 31" 17mmT4 VF,VS,UB,NND,CLOSE COMP'S=PGC'S,R=P

## ARP 313

NGC 3991 UMa Galaxy Im pec sp F,S,LE,1ST OF 3  
 Apr 09 2008 31" 17mmT4 MF,ML,EDGE ON,BRTER ONE SIDE THAN OTHER/PAIRS=3995/3994,EXCELL GROUP,R=G

# ARP Peculiar Galaxies

## ARP 313

NGC 3994	UMa	Galaxy SA(r)c pec?	PB,VS,2ND OF 3
Apr 09 2008 31"	17mmT4	MB,MS,OVAL,LARGE BNUC,SHISB,BM,MOD HISB MIDDLE,EXCELL GROUP,PAIRS=3991/3995,R=G	
NGC 3995	UMa	Galaxy SAm pec	F,PL,IR,BM,3RD OF 3
Apr 09 2008 31"	17mmT4	MF,PL,OVAL,UB,NND,MOD HISB,CIGAR SHAPE,PAIRS=3991/3994/EXCELL GROUP,R=G	

## ARP 314

PGC 70127	Aqr	Galaxy (R')SA(s)bc: p	
Sep 12 2007 31"	17mmT4	MB,ML,OVAL,UB,NND,MOD HISB,PAIRS=PGC'S,R=G	
PGC 70130	Aqr	Galaxy SB(rs)cd: pec	
Sep 12 2007 31"	17mmT4	MB,ML,OVAL,UB,NND,MOD HISB,VF* IN EDGE OF GAL,ANOTHER FURTHER OUT,PAIR=PGC'S,R=G	
PGC 70133	Aqr	Galaxy (R')SB(s)dm 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,CENTRAL BULGE,TOUCHING=NGC2832,R=G	
Dec 07 2005 31"	17mmT4	PF,ML,EDGE ON,PAIRS=2832,2831,EXCELLENT PAIRS,R=F	
Dec 26 2003 31"	17mmT4	DIF,MF,MS,ELONG,PATCH,UB,NND,R=F	
NGC 2831	Lyn	Galaxy E0	F,S,LE,BM,2ND OF 3
Mar 17 2009 31"	17mmT4	MB,MS,R,SMALL BNUC,SOMEWHAT HISB,INSIDE OF NGC2832.AGC,R=F	
Dec 07 2005 31"	17mmT4	MF,VS,VERY CLOSE COMP=2832,ALMOST ATTACHED,PAIRS=2832/2830,EXCELLENT PARIS,R=F	
Dec 26 2003 31"	17mmT4	MF,PS,PATCH,SMALL FNUC,INTERACTING=2832,R=G	
NGC 2832	Lyn	H113-1 Galaxy E+2:	F,VS,R,3RD OF 3
Mar 17 2009 31"	17mmT4	PB,PL,R,LARGE BNUC,MHISB,HISB MIDDLE,SMBM,INTER=2831,TOUCHING=2830,AGC,R=E	
Dec 07 2005 31"	17mmT4	VB,PL,R,LARGE BNUC,HISB,VERY CLOSE COMP,PAIRS=2831/2830,EXCELLENT PAIRS,R=E	
Dec 26 2003 31"	17mmT4	VB,VL,R,LARGE BNUC,MOD HISB,INTERACTING=2831,FACE ON,ARMS DET,PATCHY AREAS,R=G	

## ARP 316

NGC 3187	Leo	Galaxy SB(s)c pec	VF,E
Mar 06 2010 31"	17mmT4	MF,ML,EDGE ON,UB,NND,TAPPERS 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,ELONG,SMALL BNUC,TIGHT,R VB NUC,HISB MIDDLE,MOD HISB REGION FROM NUC,PAIRS=3183/31878,R=E	
Feb 25 1984 12.5"	12mm	MB,PL,ELONG,MOD HISB,CLOSE PAIR/3193/3185	
Jan 30 1981 12.5"	24mm	DIF,PB,PL,EDGE ON,DIM NUC,PAIR/3185/3193	
Dec 03 1980 12.5"	24mm		
NGC 3193	Leo	H45-2 Galaxy E2	B,S,VLE,PSLBM,*9NF
Mar 06 2010 31"	17mmT4	EF,VL,R,LARGE BNUC,HISB,GRANULAR HALO AROUND NUC,PARIS=3190/3187,R=E	
Feb 25 1984 12.5"	12mm	MB,ML,R,BM,F* TO W,MOD HISB,CLOSE PAIR/3190/3185	
Jan 30 1981 12.5"	24mm	PB,PL,BNUC,DIM HALO,PAIR/3185/3190	
Dec 03 1980 12.5"	24mm		
Jun 10 1980 6"	24mm	JUST BARELY VISIBLE,DID NOT FIND OTHERS IN AREA	

## ARP 317

NGC 3623	Leo	M65 Galaxy SAB(rs)a	B,VL,ME165,GBMBN
Mar 19 2004 12.5"	12mmT4	MESSIER MARATHON 2004	
Feb 15 2004 31"	17mmT4	EB,EL,EDGE ON,LARGE BNUC,HISB,ARMS AND DUST,M65,BEST SEEN TODATE,R=E	
Mar 03 1984 12.5"	12mm	VB,VL,EDGE ON,BNUC,BARM,LARGE BRT NUC,TAPERED ENDS,VMBM,VF* E EDGE,2B*S OPP	
Mar 02 1984 10"	20mm	SAME	
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981	

# ARP Peculiar Galaxies

## ARP 317

NGC 3623      Leo      M65      Galaxy SAB(rs)a      B,VL,ME165,GBMBN

Jan 30 1981 12.5" 24mm EB,EL,BNUC,BRIGHT HALO,PAIR/3627/3626

Dec 03 1980 12.5" 24mm

Jun 10 1980 6" 24mm

Apr 18 1980 6" 24mm CLOSE PAIR/M66

NGC 3628      Leo      H8-5      Galaxy Sb pec sp      PB,VL,VME102

Mar 06 2010 31" 17mmT4 EB,EL,EDGE ON UB,SHISB,SEVERAL 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 EAST ARM,DARK LANES DET,UB,NND

Mar 27 1981 12.5" 24mm

Jan 30 1981 12.5" 24mm DIF,PF,EL,EDGE ON,FAINT HALO,PAIR/M66/M65/3626

Dec 03 1980 12.5" 24mm

Jun 10 1980 6" 24mm BETWEEN 2 F\*S,SAME FOV AS M65/M66

## ARP 318

NGC 833      Cet      H482-2      Galaxy (R')Sa: pec      F,S,R,1ST OF 4

Sep 12 2007 31" 17mmT4 MP,ML,ELONG,SMALL BNUC,SOMEWHAT HISB MIDDLE,HICKSON 16,R=G

NGC 835      Cet      H483-2      Galaxy SAB(r)ab: pec      F,S,R,2ND OF 4

Sep 12 2007 31" 17mmT4 PB,ML,R,MBM,MOD HISB MIDDLE,MOD HISB MIDDLE,HICKSON 16,R=G

NGC 838      Cet      H484-2      Galaxy SA(rs)0<sup>+</sup> pec:      VF,VS,R,3RD OF 4

Sep 12 2007 31" 17mmT4 PB,ML,R,LARGE BNUC,MBM,MOD HISB MIDDLE,HICKSON 16,R=G

NGC 839      Cet      H485-2      Galaxy S0: pec sp      VF,PS,R,4TH OF 4

Sep 12 2007 31" 17mmT4 MB,ML,ELONG,PATCH,UB,NND,SHISB,HICKSON 16,R=G

NGC 848      Cet      Galaxy (R')SB(s)ab pec      EEF,PL,VDIFFIC,\*NF

Sep 12 2007 31" 17mmT4 MB,ML,OVAL,LARGE FNUC,MOD HISB,R=G

## ARP 319

NGC 7317      Peg      Galaxy E4      VF,VS

Oct 06 2004 31" 17mmT4 MB,PS,OVAL,LARGE FNUC,GBM,MOD HISB MIDDLE,STEPHAN'S QUINTET,R=F

Sep 01 2002 12.5" 16mm EEDIF,VF,VS,F\* ON EDGE OF GAL,SBM,STEPHEN'S QUINTET

NGC 7318A      Peg      Galaxy E2 pec      EF,ES

Oct 06 2004 31" 17mmT4 MF,PS,OVAL,SMALL BNUC,GBM,MOD HISB MIDDLE,STEPHAN'S QUINTET,R=F

Sep 01 2002 12.5" 16mm EEDIF,PF,PS,ELONG,COMP=7318B,CONNECTED,COULD NOT SPLIT,OVAL,PATCH,NND

Jul 06 1983 12.5" 16mm EEDIF,EF,ES,F\*S SURROUND,PATCH,EDGE OF VIS

Sep 18 1982 12.5" 16mm STEPHENS QUINTET,VDIF,VF,MS,PATCH-OVAL,ONE OF THE BRT MEMBERS

NGC 7318B      Peg      Galaxy SB(s)bc pec      EF,ES

Oct 06 2004 31" 17mmT4 MB,PS,OVAL,SMALL BNUC,GBM,MOD HISB MIDDLE,STEPHAN'S QUINTET,R=G

Sep 01 2002 12.5" 16mm EEDIF,PF,PS,COMP=7318A,CONNECTED,COULD NOT SPLIT,STEPHAN'S QUINTET

NGC 7319      Peg      Galaxy SB(s)bc pec      EF,ES

Oct 06 2004 31" 17mmT4 PB,ML,OVAL,PATCH,SMALL FNUC,SHISB,STEPHAN'S QUINTET,R=G

Sep 01 2002 12.5" 16mm EEDIF,VF,PS,NND,OVAL PATCH,STEPHEN'S QUINTET

NGC 7320      Peg      Galaxy SA(s)d      F,VS

Oct 06 2004 31" 17mmT4 PB,PL,OVAL,UB,NND,MOD HISB,\*IN GAL,PATCHY AREAS DET,STEPHAN'S QUINTET,R=E

Sep 01 2002 12.5" 16mm VDIF,PF,PS,ELONG,BRIGHTER OF GROUP,OVAL,NND,COMP,STEPHAN'S QUINTET

Sep 21 1984 12.5" 16mm VDIF,VF,VS,FAINT PATCH,2 COMP CLOSE BY DET

Sep 18 1982 12.5" 16mm STEPHENS QUINTET,EDIF,VF,MS,OBLONG,BRT MEMBER

## ARP 320

NGC 3745      Leo      Galaxy SB(s)0-:      PB,PS,R

Mar 29 2006 31" 17mmT4 VF,VS,VERY SMALL FNUC,EXCELLENT HICKSON GROUP,R=F

# ARP Peculiar Galaxies

## ARP 320

NGC 3746	Leo	Galaxy SB(r)b	PB,PS,R
Mar 29 2006 31"	17mmT4	PF,PS,VERY SMALL NUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3748	Leo	Galaxy SB0 <sup>^</sup> ? sp	PB,PS,R
Mar 29 2006 31"	17mmT4	VF,VS,VERY SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3750	Leo	Galaxy SAB0-?	PB,R,CBM,1ST OF3LINE
Mar 29 2006 31"	17mmT4	PF,PS,R,SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3751	Leo	Galaxy S0- pec?	F,L,E45
Mar 29 2006 31"	17mmT4	VF,PS,VERY SMALL FNUC,EXCELLENT HICKSON GROUP,R=F	
NGC 3753	Leo	Galaxy Sab? sp pec	PB,PL,2ND OF3IN LINE
Mar 29 2006 31"	17mmT4	MF,MS,ELONG,UB,NND,EXCELLENT HICKSON GROUP,R=F	
NGC 3754	Leo	Galaxy SBb? pec	VF,R,3RD OF3 IN LINE
Mar 29 2006 31"	17mmT4	PF,VS,R,UB,NND,EXCELLENT HICKSON GROUP,R=P	

## ARP 321

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

## ARP 322

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

## ARP 323

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

## ARP 324

MAC 1602+1554	Her	Galaxy	
May 14 2009 31"	17mmT4	MF,MS,UB,ONE OF THE BEST MAC'S,MOD HISB,AGC 2147,R=F	
Apr 26 2006 31"	17mmT4	MF,MS,R,LARGE FNUC,ONE OF THE BETTER MAC'S,PAIRS=PGC'S,MAC'S,EXCELL FOV,R=F	

# ARP Peculiar Galaxies

## ARP 324

MAC 1602+1554 Her Galaxy  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,LFNUC,SHISB,MOD HISB MIDDLE,BEST MAC TODATE,COMP=MAC,MANY COMP,R=F

MAC 1602+1555 Her Galaxy  
 May 14 2009 31" 17mmT4 PF,VS,OVAL,SMALL BNUC,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,EXCELLENT FOV OF GAL,R=P  
 Mar 29 2006 31" 17mmT4 VF,PS,PATCH,UB,NND,COMP=MAC,F\* ON EDGE OF GAL,MANY COMP,EXCELLENT GROUP,R=P

MAC 1602+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,EXCELLENT FOV OF GALAXIES,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,ELONG,PATCH,UB,NND,AGC 2147,R=P  
 Apr 26 2006 31" 17mmT4 PF,MS,ELONG,UB,NND,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=F  
 Mar 29 2006 31" 17mmT4 PF,MS,ELONG,UB,NND,MANY COMP,EXCELLENT GROUP,R=F

PGC 56777 Her Galaxy SAB(r)ab  
 May 14 2009 31" 17mmT4 MF,PS,R,LARGE BNUC,AGC 2147,R=F  
 Apr 26 2006 31" 17mmT4 MF,MS,R,LARGE FNUC,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=P  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,SHISB,MANY COMP,EXCELLENT GROUP,R=F

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

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

PGC 56784 Her Galaxy E+  
 May 14 2009 31" 17mmT4 MF,MS,R,LARGE BNUC,AGC 2147,R=F  
 May 18 2007 31" 17mmT4 MB,ML,OVAL,LARGE FNUC,SOMEWHAT HISB MIDDLE,R=G  
 Apr 26 2006 31" 17mmT4 MF,MS,R,LARGE FNUC,SBM,PAIRS=PGC'S/MAC'S,EXCELLENT FOV OF GALAXIES,R=P  
 Mar 29 2006 31" 17mmT4 MF,MS,OVAL,UB,NND,SHISB,MANY COMP,EXCELLENT GROUP,R=G

## ARP 325

MAC 2206-2104 Aqr Galaxy  
 Sep 17 2009 31" 17mmT4 VF,MS,PATCH,UB,NND,INTER=PGC68036,BOTH APPEAR AS ONE PATCH,CANNOT SEPERATE,AGC 3744,R=P

MAC 2206-2105 Aqr Galaxy  
 Sep 17 2009 31" 17mmT4 VF,VS,PATCH,UB,NND,AV COMES AND GOES,HARD TO SEPERATE FROM PGC68036,AGC 3744,R=P

PGC 68036 Aqr Galaxy  
 Sep 17 2009 31" 17mmT4 VF,MS,PATCH,UB,NND,INTER=MAC,BOTH APPEAR AS ONE PATCH,CANNOT SEPERATE,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

# ARP Peculiar Galaxies

## ARP 326

PGC 48105	Vir	Galaxy Sa
May 18 2007 31"	17mmT4	MF,MS,OVAL,SFNUC,SOMEWHAT MOD HISB MIDDLE,PAIRS=MANY OTHERS,R=F
PGC 48117	Vir	Galaxy S
May 18 2007 31"	17mmT4	PF,MS,ELONG,OVAL,UB,NND,PAIRS=MANY OTHERS,R=F
PGC 48118	Vir	Galaxy SB
May 18 2007 31"	17mmT4	PF,MS,ELONG,OVAL,UB,NND,PAIRS=MANY OTHERS,R=F

## ARP 327

NGC 1875	Ori	Galaxy S0?	EF,S,R
Oct 01 2005 31"	17mmT4	PF,MS,R,LARGE FNUC,SOMEWHAT HISB MIDDLE,PAIR=PGC'S,R=F	
PGC 17173	Ori	Galaxy S	
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FAINT NEB FROM 1875,R=P	
PGC 17175	Ori	Galaxy S	
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FAINT NEB FROM 1875,R=P	
PGC 17176	Ori	Galaxy SA0-:	
Oct 01 2005 31"	17mmT4	EF,ES,AV,APPEARS AS A LINE OF FAINT NEB FROM 1875,BRIGHTER OF THE 3,R=P	

## ARP 328

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

## ARP 329

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

## ARP 330

MAC 1649+5322	Dra	Galaxy	
Mar 26 2006 31"	17mmT4	EF,VS,PATCH,AV,MULTI GAL,PAIRS=PGC'S,R=P	
PGC 59042	Dra	Galaxy E2 pec:	
Mar 26 2006 31"	17mmT4	MF,VS,PATCH,VERY SMALL FNUC,MULTI GAL,PAIRS=PGC'S,R=F	
PGC 59048	Dra	Galaxy E2 pec:	
Mar 26 2006 31"	17mmT4	VF,VS,PATCH,NND,MULTI GAL,PAIRS=PGC'S,R=P	
PGC 59049	Dra	Galaxy E1:	

# ARP Peculiar Galaxies

## ARP 330

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

## ARP 331

NGC 379	Psc	H215-2 Galaxy S0	PF,S,R,BM
Sep 18 2009 31"	17mmT4	PB,ML,ELONG,LARGE BNUC,HISB MIDDLE,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,LARGE BNUC,HISB MIDDLE,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,SMALL BNUC,SOMEWHAT HISB MIDDLE,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,LARGE BNUC,HISB,GRANULAR HALO AROUND 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,LARGE BNUC,HISB MIDDLE,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,LARGE BNUC,HISB MIDDLE,PAIRS=OTHER NGC'S,R=G	
NGC 386	Psc	Galaxy E3:	CF,S,R
Sep 18 2009 31"	17mmT4	MB,ML,OVAL,LARGE FNUC,MOD HISB MIDDLE,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,LARGE FNUC,PAIRS=OTHER NGC'S,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,ELONG,LARGE BNUC,GMBM,HISB,PAIRS/1028/1029,R=G	
Oct 23 1982 12.5"	16mm	MF,ML,FNUC,F* TO N,GBM,ROUND-OVAL,PAIR/1029	

## ARP 334

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

## ARP 335

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

## ARP 336

NGC 2685	UMa	Galaxy (R)SB0+ pec	PF,R,F*INCENTRE
Mar 15 1985 12.5"	12mm	DIF,VF,VS,EDGE ON,BNUC,LARGE CENTRAL REGION,TAPPERED ENDS,FAINT GLOW AROUND NUC	

## ARP 337

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

# ARP Peculiar Galaxies

## ARP 337

NGC 3034	UMa	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
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,PATHC,AV,PAIR=MAC'S,R=P		