

Virgo - The Virgin

ABELL 36			Planetary Neb
Jul 13 2013	18"	11mmT6	VF,VS,R=F. NO CENTRAL STAR NOTED. USED OIII FILTER.
IC 1042			Galaxy S0?
May 23 2012	18"	8.8 ES	PF,PS,R,UB,NND,R=F
IC 3011			Non-Existent
Mar 08 2010	12"	11mmT6	PF,PS,EON,UB,NND,R=F
IC 3074			Galaxy SB(s)dm: sp
May 30 2014	18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=160
IC 3259			Galaxy SAB(s)dm?
Mar 30 2014	18"	7mm TV	VF,VS,OVAL,UB,NND,AV1,R=P
IC 3322A			Galaxy SB(s)cd: sp
May 25 2014	18"	8mm Ds	PF,PS,EON,FNUC,R=F,PA=160
IC 3414			Galaxy SABdm?
May 25 2014	18"	8mm Ds	VF,VS,OVAL,UB,NND,AV1,R=P
IC 3446			Galaxy S?
May 18 2007	31"	17mmT4	VF,VS,R,NND,AV,R=F
May 14 2007	31"	17mmT4	PB,PS,EON,FNUC,MSB,R=G
IC 3470			Galaxy E?
May 14 2007	31"	17mmT4	PB,PS,R,UB,NND,R=G
IC 3481			Galaxy SAB0-: pec
May 18 2007	31"	17mmT4	PB,PS,OVAL,UB,NND,R=F
IC 3481A			Galaxy E pec:
May 18 2007	31"	17mmT4	CF,VS,R,NND,AV,R=F
IC 3483			Galaxy SAB(s)b pec:
May 18 2007	31"	17mmT4	PF,PS,OVAL,UB,NND,R=F
IC 3499			Galaxy S0/a
May 14 2007	31"	17mmT4	PF,PL,EON,UB,NND,R=F
IC 3510			Galaxy S?
May 14 2007	31"	17mmT4	CF,CS,OVAL,NND,AV,R=F
IC 3583			Galaxy IBm
May 18 2007	31"	17mmT4	PF,PL,EL,OVAL,NND,R=F
MAC 1141+1016			Galaxy

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MAC 1141+1016			Galaxy	
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
MAC 1231+0036			Galaxy	
May 14 2007 31"	17mmT4	CF,VS,OVAL,NND,R=F		
MAC 1231+0353			Galaxy	
May 14 2007 31"	17mmT4	VF,CS,EON,NND,AV,R=P		
MAC 1234-0727			Galaxy	
May 14 2007 31"	17mmT4	VF,CS,R,NND,AV,R=F		
MAC 1234-0732			Galaxy	
May 14 2007 31"	17mmT4	CF,CS,R,UB,NND,R=F		
MAC 1252+1001			Galaxy	
May 18 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
MAC 1253+0956			Galaxy	
May 18 2007 31"	17mmT4	EF,VS,R,NND,AV,R=F		
NGC 3776			Galaxy Sb	EF,VS
May 10 2005 31"	11mmT6	VF,S,OVAL,NND,R=F		
NGC 3818		H284-3	Galaxy E5	F,PS,R,PSBM
Apr 02 2008 8"	11mmT6	B,S,OVAL,FNUC,R=F		
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F		
NGC 3822		H153-2	Galaxy S0?	PF,PS,3RD OF 4
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=F		
NGC 3825		H154-2	Galaxy SBa	PF,PS,4TH OF 4
May 18 2007 31"	17mmT4	PF,CS,OVAL,NND,R=F		
NGC 3833		H102-3	Galaxy Sc	EF,PS
May 18 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F		
NGC 3848		H35-3	Galaxy Sc	EF,VS
May 18 2007 31"	17mmT4	PB,PS,OVAL,UB,NND,R=G		
NGC 3952		H612-3	Galaxy IBm: sp	CF,CS,LE90,BM,R
Mar 08 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
NGC 3976		H132-2	Galaxy SAB(s)b	B,PL,CE30,VSMBMN
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,R=F		
NGC 4030		H121-1	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR

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NGC 4030		H121-1	Galaxy SA(s)bc	CB,L,VLE,PSMBM,BSTNR
Apr 04 2005 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
NGC 4045		H276-2	Galaxy SBa	PF,L,R,SBM,*SF
May 30 2016 12"	8mm Ds	VF,VS,OVAL,MEXT,UB,NND,AV2R=F		
Mar 08 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
NGC 4067		H37-3	Galaxy SA(s)b:	F,PS,R,GBM
Mar 08 2010 12"	11mmT6	VF,CS,OVAL,UB,NND,AV,R=F		
NGC 4073		H277-2	Galaxy E+	F,PS,R,PGBM,NP OF 2
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
NGC 4079			Galaxy (R')SAB(rs)bc:	F,L,R,*10N1'
Mar 08 2010 12"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 4116			Galaxy SB(rs)dm	VF,E,SPOF2,HOOKSHAPE
Apr 29 2011 12"	7mm TV	DIFF,CF,PS,OVAL,AV,R=F,PA=120		
Apr 02 2008 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
NGC 4123		H4-5	Galaxy SB(r)c	CF,VL,E90,BMN
Apr 02 2008 8"	11mmT6	VF,L,OVAL,NND,AV,R=F		
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
NGC 4124		H33-1	Galaxy SA(r)0+	PB,PL,ME118,BM,R
Apr 09 2008 8"	11mmT6	PF,PS,R,NND,LSB,R=F		
NGC 4168		H105-2	Galaxy E2	PB,PL,IF,PSBM,R,*INV
Apr 04 2005 8"	11mmT6	MB,OVAL,PATCH,NND,R=G		
NGC 4178			Galaxy SB(rs)dm	VF,VL,E45,*7F
Apr 04 2005 8"	11mmT6	VF,EL,OVAL,AV,R=F		
NGC 4179		H9-1	Galaxy S0 sp	PB,PS,PME135,BMN
Apr 04 2005 8"	11mmT6	MB,EON,OVAL,FNUC,MSB,R=G		
NGC 4197		H134-2	Galaxy Sd	PF,PME,VGBM
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=30		
NGC 4206		H165-2	Galaxy SA(s)bc:	F,VME
Apr 16 2009 16"	17mmT4	VF,PS,EON,NND,VLOWSB,R=F		
Apr 04 2005 8"	11mmT6	VF,EON,NND,AV,R=F		
NGC 4207			Galaxy S?	PF,PS,LE,*14NP
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		

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NGC 4215 Mar 08 2010 12"	11mmT6	H135-2 CF,CS,EON,UB,NND,R=F	Galaxy SA(r)0+: sp	B,PS,E,SBM*11
NGC 4216 Apr 16 2009 16" Apr 04 2005 8" May 16 2004 10"	17mmT4 11mmT6 28mm	H35-1 PB,PL,EON,BNUC,HSB,R=G VB,EON,FNUC,MSB,R=G CLEAR - MEGASTAR CONTROL	Galaxy SAB(s)b:	VB,VL,VME17,SBMN
NGC 4224 Apr 09 2008 8"	11mmT6	H136-2 PF,PS,EON,NND,LSB,R=F	Galaxy SA(s)a: sp	PB,PS,LE,GBM,R
NGC 4233 Apr 09 2008 8"	11mmT6	H496-2 PF,CS,OVAL,FNUC,LSB,R=F	Galaxy S0^	PF,R,VSBSMN
NGC 4235 Apr 29 2011 12" Apr 09 2008 8"	5mm TV 11mmT6	H17-2 PF,PS,EON,FNUC,R=G,PA=45 PF,PS,EON,UB,FNUC,R=G	Galaxy SA(s)a sp	PB,PL,PME,BM,P OF 2
NGC 4240 Mar 08 2010 12"	11mmT6	H17-2 VF,CS,OVAL,UB,NND,R=F	Galaxy E	PB,S,*12SP1/2'
NGC 4241 Apr 09 2008 8"	11mmT6	H480-3 PF,PS,OVAL,LSB,AV,R=F	Galaxy SA(s)0+:	VF,L,VGBM,*7S
NGC 4255 May 18 2014 18"	8mm Ds	H480-3 VF,PS,OVAL,MEXT,UB,NND,AV1,R=F	Galaxy SB(r)0^	S,PMBM
NGC 4260 Apr 14 2016 12" Apr 09 2008 8"	11mmT6 11mmT6	H138-2 DIFF,PS,,S,R,UB,NND,R=F PF,PS,OVAL,UB,NND,R=F	Galaxy SB(s)a	PB,E,PSBM
NGC 4261 Apr 14 2016 12" Apr 26 2006 8" May 22 2004 8"	11mmT6 11mmT6 25mmPL	H139-2 PF,PS,R,FNUC,R=F B,L,OVAL,FNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy E2-3	PB,PS,R,GBM
NGC 4264 Apr 09 2008 8"	11mmT6	H140-2 VF,VS,R,NND,AV,R=F	Galaxy SB(rs)0+	F,PS,R,GBM
NGC 4267 Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	H166-2 PF,PS,OVAL,FNUC,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy SB(s)0-?	PB,VS,R,VSMBM
NGC 4268 Apr 04 2005 8"	11mmT6	H166-2 VF,EL,OVAL,NND,AV,R=F	Galaxy SB0/a: sp	PF,S,2ND OF 6 NEB
NGC 4270		H568-2	Galaxy S0	PB,S,R

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NGC 4270		H568-2	Galaxy S0	PB,S,R
May 14 2017 12"	11mmT6	PF,PS,OVAL,MEXT,NND,R=F		
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,UB,NND,R=G		
Apr 09 2008 8"	11mmT6	PF,PS,EON,FNUC,MSB,R=G		
NGC 4273		H569-2	Galaxy SB(s)c	PB,L,E,GBM
May 14 2017 12"	11mmT6	PF,PS,OVAL,FNUC,R=G		
Apr 04 2005 8"	11mmT6	MB,OVAL,FNUC,MSB,R=G		
NGC 4281		H573-2	Galaxy S0+: sp	B,VL,R,PGBM
May 14 2017 12"	11mmT6	PF,PS,OVAL,FNUC,R=G		
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,MEXT,FNUC,R=F		
Apr 04 2005 8"	11mmT6	MB,EL,OVAL,NND,MSB,R=F		
NGC 4285			Galaxy Sa	EF,PS,R
Apr 29 2006 31"	19mmW	VF,S,OVAL,NND,AV,R=F		
NGC 4294		H61-2	Galaxy SB(s)cd	F,L,ME135,BIN,P OF 2
Apr 04 2005 8"	11mmT6	MF,EL,EON,NND,AV,R=F		
NGC 4299		H62-2	Galaxy SAB(s)dm:	F,L,LE,VGBM,F OF 2
Apr 04 2005 8"	11mmT6	VF,OVAL,NND,AV,R=F		
NGC 4300		H572-2	Galaxy Sa	F,LE,VGBM
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
NGC 4303	M61	H139-1	Galaxy SAB(rs)bc	VB,VL,VSBM*,BIN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 06 2007 1.9"	12x50	PB,PS,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	DIFF,F,L,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4305			Galaxy SA(r)a	VF,R
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4306		
NGC 4306			Galaxy SB(s)0^:	VF,PL,R,4305SP
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F,PAIRED W/.NGC-4305		
NGC 4307			Galaxy Sb sp	PF,L,ME,3KNOTS
May 18 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=24		
NGC 4309			Galaxy SAB(r)0+	F,S,*11F12S
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		

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NGC 4313 Apr 04 2005 8"	11mmT6	H63-2 MF,EL,EON,NND,R=F	Galaxy SA(rs)ab: sp	VF,L,E135,R
NGC 4324 May 10 2005 8"	11mmT6	VF,VS,EL,OVAL,NND,R=F	Galaxy SA(r)0+	PB,RORLE,BM
NGC 4326 May 10 2005 8"	11mmT6	H141-2 MF,VS,R,NND,R=F	Galaxy SAB(r)ab:	VF,S,R,BM,1ST OF 3
NGC 4330 May 10 2005 8"	11mmT6	VF,VS,EON,NND,AV,R=F	Galaxy Scd?	VF,L,ME
NGC 4339 Apr 09 2008 8"	11mmT6	H143-2 PF,PS,R,FNUC,MSB,R=G	Galaxy E0	B,PL,R,BM,3RD OF 3
NGC 4341 Mar 30 2014 18"	7mm TV	H95-3 PF,PS,EON,UB,NND,R=F	Galaxy SAB(s)0^ sp	EF,VS,R
NGC 4342 Mar 30 2014 18"	7mm TV	H96-3 PF,PS,OVAL,BNUC,R=F	Galaxy S0- sp	EF,VS,R
NGC 4343 Mar 30 2014 18" Apr 09 2008 8"	7mm TV 11mmT6	H94-3 PF,PS,OVAL,MEXT,UB,NND,R=F PF,PS,EON,UB,NND,R=F	Galaxy SA(rs)b:	PF,S,E,(D)
NGC 4348 Mar 30 2014 18"	7mm TV	H625-2 PF,PS,EON,UB,NND,R=F,PA=40	Galaxy SAbc: sp	F,PL,E70,VLBM
NGC 4351 Mar 30 2014 18"	7mm TV	DIFF,PF,PS,OVAL,UB,NND,R=F	Galaxy SBab/	F,PL,IR,BM
NGC 4352 Mar 30 2014 18"	7mm TV	H64-2 PF,PS,OVAL,PEXT,FNUC,R=G	Galaxy SA0: sp	CF,CS,LE
NGC 4356 May 25 2014 18"	8mm Ds	H481-3 PF,PS,EON,UB,NND,R=F, MAG 13 STAR ON SOUTH EDGE.	Galaxy Scd:	VF
NGC 4365 Apr 26 2006 8" May 22 2004 8"	11mmT6 25mmPL	H30-1 PB,PL,OVAL,FNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy E3	CB,PL,VLE,GL,SMBM
NGC 4370 Mar 30 2014 18"	7mm TV	H144-2 PF,PS,OVAL,UB,NND,R=F	Galaxy Sa sp	PF,PS,LE,BM
NGC 4371 Apr 26 2006 8" Apr 14 2004 8"	11mmT6 25mmPL	H22-1 PF,PS,OVAL,NND,R=F CLEAR NIGHT - MEGASTAR CONTROL	Galaxy SB(r)0+	B,PS,R,GBM

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NGC 4374	M84	Galaxy E1	VB,PL,R,PSBM,R
May 14 2017 12"	11mmT6	F,VS,R,BNUC,R=E	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 26 2006 8"	19mmW	B,S,OVAL,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4378		H123-1 Galaxy (R)SA(s)a	B,S,*8,9SF3'
Apr 09 2010 12"	11mmT6	PF,PS,R,FNUC,R=F	
NGC 4380		Galaxy SA(rs)b:?	VF,PL,R,LBM
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F	
NGC 4385		Galaxy SB(rs)0+:	VF,VS,ALM STELL
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,MEXT,UB,NND,R=F	
NGC 4387		H167-2 Galaxy E	PF,VS,R,*13NP90,NP-2
May 14 2017 12"	11mmT6	F,PS,OVAL,FNUC,R=E	
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F	
NGC 4388		H168-2 Galaxy SA(s)b: sp	VF,E,SF OF2
May 14 2017 12"	11mmT6	F,PS,EON,BNUC,R=E	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4402		Galaxy Sb sp	F,L,ME90
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F	
NGC 4403		H755-3 Galaxy SA(r)ab pec sp	VF,VS,E
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,PEXT,UB,NND,R=F,PAIRED W/NGC-4404	
NGC 4404		H756-3 Galaxy SA(r)0- pec:	VF,VS,E
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F,PAIRED W/NGC-4403	
NGC 4406	M86	Galaxy E3	VB,L,R,GBMN,R
May 14 2017 12"	11mmT6	F,PS,R,BNUC,R=E	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
May 06 2007 1.9"	12x50	PF,PS,OVAL,NND,R=F	
Mar 26 2006 8"	19mmW	B,S,R,NND,R=F	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4410A		Non-Existent	

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NGC 4410A		Non-Existent	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410B	
NGC 4410B		Non-Existent	
Mar 30 2014 18"	7mm TV	VF,PS,R,UB,NND,R=F,PAIRED W/NGC-4410A	
NGC 4411A		Galaxy SBdm	
Mar 30 2014 18"	7mm TV	VF,PS,OVAL,UB,NND,AV,R=F	
NGC 4411B		Non-Existent	
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,NND,R=F	
NGC 4413		H169-2	Non-Existent
Mar 30 2014 18"	7mm TV	PF,PS,OVAL,UB,ND,R=F	CF,S,GBM,2ST N,NP
Apr 09 2010 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F	
NGC 4417		H155-2	Galaxy SB0: sp
Apr 05 2005 8"	7.5mmW	VF,ML,EL,EON,NND,AV,R=F	F,PL,E,LBP
NGC 4420		H23-2	Non-Existent
Mar 30 2014 18"	7mm TV	PF,PS,OBVAL,MEXT,UB,NND,R=F	F,PL,LE,R,(=4409)
Apr 05 2005 8"	7.5mmW	VF,VS,EL,NND,AV,R=F	
NGC 4424		Galaxy SB(s)a:	F,PL,IR,BM
Apr 05 2005 8"	7.5mmW	MFN,ML,EL,OVAL,NND,MSB,R=G	
NGC 4425		H170-2	Galaxy SB0+: sp
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G	PF,S,R,BM
NGC 4429		H65-2	Galaxy SA(r)0+
Apr 26 2006 8"	11mmT6	F,PS,EL,OVAL,UB,R=F	B,L,CE,PSBM,*10NF
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
NGC 4435		H28-1	Galaxy SB(s)0^
May 14 2017 12"	11mmT6	F,PS,R,FNUC,R=E	VB,CL,R,NP OF 2
Apr 26 2006 8"	11mmT6	B,S,R,FNUC,MSB,R=G	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4437		H5-4	Galaxy SA(s)cd: sp
May 19 2010 12"	7.5mmW	DIFF,CF,PS,EON,NND,AV,R=F	F,EE75,*10NF
NGC 4438		H28-1	Galaxy SA(s)0/a pec:
May 14 2017 12"	11mmT6	F,PS,EON,FNUC,R=E	B,CL,VLE,R,SF OF 2
Apr 26 2006 8"	11mmT6	F,PL,EL,OVAL,NND,R=F	
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	

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NGC 4442		H156-2	Galaxy SB(s)0[^]	VB,PL,R,SMBM
Apr 26 2006 8"	11mmT6	PB,CS,EON,FNUC,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4443			Non-Existent	F,S,
Apr 05 2005 8"	7.5mmW	MFB,ML,EL,OVAL,FNUC,MSB,R=G		
NGC 4451			Galaxy Sbc:	PB,PS,R,BM,*13S
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,AV1,R=F		
NGC 4454		H180-2	Galaxy (R)SB(r)0/a	F,L,R,GBM,ER
May 25 2014 18"	8mm Ds	PF,PS,OVAL,NND,R=F		
NGC 4457		H35-2	Galaxy (R)SAB(s)0/a	CB,PS,R,SMBMN
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4458		H121-2	Galaxy E0-1	PB,S,R,BM,P OF 2
Apr 09 2010 12"	11mmT6	PB,PS,R,NND,R=G		
NGC 4461		H122-2	Galaxy SB(s)0+:	PF,S,R,BM,F OF 2
Apr 09 2010 12"	11mmT6	PB,PS,OVAL,PEXT,BNUC,HSB,R=G		
NGC 4464		H483-3	Galaxy S?	F,VS,R,PGBM
May 14 2007 31"	17mmT4	PB,PS,R,FNUC,MSB,R=G		
NGC 4465			Galaxy Sc	VF,VDIF
May 14 2007 31"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 4467			Galaxy E2	VF,VS,LE
May 14 2007 31"	17mmT4	PF,CS,R,UB,NND,R=F		
NGC 4469		H157-2	Galaxy SB(s)0/a? sp	PF,PL,ME,BM,R
Apr 05 2005 8"	7.5mmW	MF,ML,EL,EON,NND,R=G		
NGC 4470		H18-2	Galaxy Sa?	F,PL,IR,BM
May 25 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=G		
NGC 4472	M49		Galaxy E2	VB,L,R,MBM,R
Apr 14 2016 12"	11mmT6	SOME MORE EYE CANDY		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 14 2007 31"	17mmT4	B,CL,OVAL,BNUC,HISB,R=G		
May 06 2007 1.9"	12x50	PB,PS,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	B,L,OVAL,BNUC,HISB,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		

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NGC 4472	M49	Galaxy E2	VB,L,R,MBM,R
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4476		Galaxy SA(r)0-:	F,S,R,BM,1ST OF 3
May 25 2014 18"	8mm Ds	PF,VS,OVAL,FNUC,R=G	
NGC 4478		Galaxy E2	PB,S,R,PSBM,2ND OF 3
Apr 05 2005 8"	7.5mmW	MB,MS,R,FNUC,MSB,R=G	
NGC 4482		Galaxy E	EF,PL
May 25 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F	
NGC 4484		Galaxy SA(s)c pec:	PF,S,R,GBM
May 25 2014 18"	8mm Ds	VF,PS,R,UB,NND,AV,R=P	
NGC 4486	M87	Galaxy E+0-1 pec	VB,VL,R,MBM,3RD OF 3
Sep 19 2014 12"	17mmAT	PF,L,R=G, HOME - 8/14/14	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009	
Mar 10 2007 1.9"	12x50	PF,S,OVAL,R=F	
Mar 26 2006 8"	19mmW	B,LLARGER,FNUC,R=G	
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS	
NGC 4486A		Galaxy E2	
May 18 2014 18"	8mm Ds	VF,VS,OVAL,UB,NND,R=F	
NGC 4486B		Galaxy cE0	
May 18 2014 18"	8mm Ds	VF,VSM,R,UB,NND,R=F	
NGC 4487		Galaxy SAB(rs)cd	F,VL,ER
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
NGC 4488		Galaxy SB(s)0/a pec:	VF,VS,LE
May 14 2007 31"	17mmT4	PB,PS,OVAL,UB,FNUC,MSB,R=G	
NGC 4491		Galaxy SB(s)a:	F,L,R
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 4492		Galaxy SA(s)a?	PF,PL,VGLBM,2*NR
May 14 2007 31"	17mmT4	PB,PS,R,FNUC,MSB,R=G	
NGC 4493		Galaxy E+ pec:	VF,VS,IR
May 14 2007 31"	17mmT4	PF,CL,OVAL,NND,R=F	

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NGC 4496A		Galaxy SB(rs)m	F,CL,BIN OR DNEB
May 14 2007 31"	17mmT4	PF,PS,R,NND,R=F	
NGC 4496B		Galaxy IB(s)m:	
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
NGC 4497		H42-3 Galaxy SAB(s)0+:	VF
May 14 2007 31"	17mmT4	PB,PL,OVAL,UB,NND,R=G	
NGC 4503		H66-2 Galaxy SB0-:	PB,S,R,GBM
May 14 2007 31"	17mmT4	PB,PL,EL,OVAL,BNUC,HISB,R=G	
NGC 4504		H771-2 Galaxy SA(s)cd	PB,CL,IE,GVLBM,ER
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL	
NGC 4518		Galaxy SB0_2/3_(r)/a	F,S,R,BM
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
NGC 4519		H158-2 Galaxy SB(rs)d	F,PL,R,BM,R
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
NGC 4519A		Galaxy dS0?	
May 14 2007 31"	17mmT4	CF,CS,OVAL,NND,R=F	
NGC 4520		H757-3 Galaxy SA0- pec sp	VF,S,2VS*INV
May 14 2007 31"	17mmT4	PF,PS,OVAL,UB,FNUC,R=F	
NGC 4522		Galaxy SB(s)cd: sp	EF,PL,LE,VLBM
May 14 2007 31"	17mmT4	PF,PL,EON,UB,NND,R=F	
NGC 4526		H31-1 Galaxy SAB(s)0^:	VB,VL,ME120,PSMBM
May 14 2007 31"	17mmT4	VB,CL,EON,BNUC,HISB,R=G	
Apr 26 2006 8"	11mmT6	VB,CS,EON,BNUC,R=G	
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED	
NGC 4527		H37-2 Galaxy SAB(s)bc	PB,L,PME69,MBM
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G	
NGC 4528		H67-2 Galaxy S0^:	PF,CS,R,BM,*9F30S
May 14 2007 31"	17mmT4	PF,PS,OVAL,BNUC,HISB,R=G	
NGC 4531		H175-2 Galaxy SB0+:	F,PL,R,VGBM
May 14 2007 31"	17mmT4	DIFF,PF,PL,OVAL,NND,R=F	
NGC 4532		H147-2 Galaxy IBm	PB,PL,PME,VGBM,R
May 14 2007 31"	17mmT4	PB,PL,EON,UB,FNUC,R=G	

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NGC 4535		H500-2	Galaxy SAB(s)c	PF,VL,R
Apr 26 2006 8"	11mmT6	F,VL,OVAL,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4536		H2-5	Galaxy SAB(rs)bc	B,VL,ME110,SBM,ER
Apr 13 2005 8"	11mmT6	MB,ML,EL,EON,FNUC,R=G		
NGC 4546		H160-1	Galaxy SB(s)0-:	VB,CL,PME78,VSMBMN
Apr 26 2006 8"	11mmT6	F,L,OVAL,NND,R=F		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
NGC 4550		H36-1	Galaxy SB0^: sp	PB,S,VLE,SP OF 2
Apr 13 2005 8"	11mmT6	MF,MS,EL,NND,R=G		
NGC 4551		H37-1	Galaxy E:	PB,S,R,BM,NF OF 2
Apr 13 2005 8"	11mmT6	VF,MS,OVAL,NND,AV,R=F		
NGC 4552	M89		Galaxy E0-1	PB,PS,R,GMBM
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	B,S,R,NND,R=F		
Mar 26 2006 8"	19mmW	B,L,R,FNUC,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
NGC 4567		H8-4	Galaxy SA(rs)bc	VF,L,NP OF D NEB
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 4568		H9-4	Galaxy SA(rs)bc	VF,L,SF OF D NEB
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,NND,R=F		
NGC 4569	M90		Galaxy SAB(rs)ab	PL,BMN
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
May 18 2007 31"	17mmT4	EB,EL,EL,OVAL,BNUC,HISB,R=E		
May 06 2007 1.9"	12x50	PB,PS,OVAL,NND,R=G		
Mar 26 2006 8"	19mmW	F,L,EON,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
NGC 4570		H32-1	Galaxy S0 sp	CB,PS,ME0,SBMRN
Apr 28 2006 31"	19mmW	VB,CL,EON,,BNUC,PHISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4578		H15-2	Galaxy SA(r)0^:	PF,PS,R,SBMN,*NP

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NGC 4578		H15-2	Galaxy SA(r)0⁺:	PF,PS,R,SBMN,*NP
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,R=G		
NGC 4579	M58		Galaxy SAB(rs)b	B,L,IR,VMBM,R
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	F,S,R,NND,R=F		
Mar 26 2006 8"	19mmW	F.S.VA;NND.R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4580		H124-1	Galaxy SAB(rs)a pec	PB,L,VGBM
Apr 08 2005 8"	11mmT6	MB,ML,R,NND,R=G		
NGC 4581			Galaxy E+	F,S,BM,STELL N
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 4584			Galaxy SAB(s)a?	VF,S,R
May 18 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 4586		H125-1	Galaxy SA(s)a: sp	PB,L,E,PSBM
Apr 08 2005 8"	11mmT6	MF,ML,EL,NND,R=G		
NGC 4592		H31-2	Galaxy SA(s)dm:	F,L,E90,VGBM
Apr 26 2009 16"	17mmT4	CF,PS,EON,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	MF,ML,EL,EON,NND,AV,R=F		
NGC 4593		H183-2	Galaxy (R)SB(rs)b	PB,CL,E,SBMN=*
Apr 14 2016 12"	11mmT6	PF,S,OVAL,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,R=F		
NGC 4594	M104	H43-1	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
May 14 2017 12"	11mmT6	VERY NICE.		
Apr 14 2016 12"	8mm Ds	PF,PS,EON,FNUC,R=F,DUST LANE FAINT.		
May 23 2015 12"	11mmT6			
May 22 2015 12"	8mm Ds	ALWAYS GREAT. DUST LANE VISIBLE		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Apr 02 2008 31"	40mm	PB,PL,EON,BNUC,HISB,R=E		
May 06 2007 1.9"	12x50	PB,PL,EON,NND,R=G		
Apr 19 2007 31"	17mmT4	VB,VL,EON,BNUC,VHISB,R=E!!		
Mar 26 2006 8"	19mmW	PB,PL,EON,BNUC,HISB,R=G		
Apr 05 2005 8"	7.5mmW	VB,VL,EON,NUC,HISB,R=E!!		

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NGC 4594	M104	H43-1	Galaxy SA(s)a sp	VB,VL,EE92,VSMBMN
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4596		H24-1	Galaxy SB(r)0+	B,PS,R,GMBM,R,3*F
Apr 08 2005 8"	11mmT6	MB,ML,OVALFNUC,R=G		
NGC 4597		H636-2	Galaxy SB(rs)m	F,VL,BM
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 4598		H105-3	Galaxy SB0	EF,L,R,VLBM
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
NGC 4599		H509-3	Galaxy SA0/a sp	VF,VS
May 18 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
NGC 4600		H577-2	Galaxy S0	F,S,R,2*8F
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
NGC 4602		H184-2	Galaxy SAB(rs)bc	F,L,E,VGLBM
Apr 08 2005 8"	11mmT6	MF,MS,EON,NND,R=F		
NGC 4604			Galaxy Im: sp	NO DESCRIPTION
May 18 2014 18"	8mm Ds	VF,VS,OVAL,PEXT,UB,NND,AV,R=F		
NGC 4606		H43-3	Galaxy SB(s)a:	VF,PS,E,20R3VS*INV
Apr 08 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
NGC 4607			Galaxy SBb? sp	F,ME,30R4'F4606
May 18 2014 18"	8mm Ds	PF,S,EON,UB,NND,R=F,PA=179		
NGC 4608		H69-2	Galaxy SB(r)0^	PB,PL,R,PSBM,R,*NP1'
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,FNUC,R=G		
NGC 4612		H148-2	Galaxy (R)SAB0^	PB,S,R,PSMBM
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,RNUC,R=G		
NGC 4621	M59		Galaxy E5	B,PL,LE,VSVMBM,2*P
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	B,PS,OVAL,FNUC,R=G		
Mar 26 2006 8"	19mmW	F,L,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		

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NGC 4623		H149-2	Galaxy SB0+: sp	CF,PL,E,PSLBM,R
Apr 08 2005 8"	11mmT6	MF,MS,OVAL,NND,AV,R=F		
NGC 4624			Galaxy E0-1	B,E
May 18 2014 18"	8mm Ds	F,S,OVAL,BNUC,R=G		
NGC 4630		H532-2	Galaxy IB(s)m?	CF,S,R,LBM
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 4632		H14-1	Galaxy SAc	PB,L,E45
Apr 26 2009 16"	17mmT4	CF,CS,OVAL,NND,R=F		
Apr 08 2005 8"	7.5mmW	VF,VS,OVAL,NND,R=F		
NGC 4636		H38-2	Galaxy E	B,L,IR,VGVMBM,R
Apr 26 2009 16"	17mmT4	PB,PS,OVAL,FNUC,R=F		
Apr 28 2006 31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4637			Galaxy S0?	DNEB W/4638,()
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,FNUC,R=F		
NGC 4638		H70-2	Galaxy S0- sp	F,R,GBM
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,NND,R=G		
NGC 4639		H125-2	Galaxy SAB(rs)bc	PB,S,E,R,*12SF1'
Apr 08 2005 8"	11mmT6	MB,ML,OVAL,RNUC,R=G		
NGC 4643		H10-1	Galaxy SB(rs)0/a	CB,PS,LE,MBM
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,FNUC,R=F		
Apr 28 2006 31"	19mmW	VB,VL,OVAL,BNUC,PHISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4647		H44-3	Galaxy SAB(rs)c	PF,PL,LE115,NPOFDNEB
Apr 08 2005 8"	11mmT6	MB,MS,OVAL,NND,R=G		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		
NGC 4649	M60		Galaxy E2	VB,PL,R,FOF DNEB
Apr 14 2016 12"	11mmT6			
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 10 2007 1.9"	12x50	B,PS,R,FNUC,R=G		
Mar 26 2006 8"	19mmW	F,L,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 13 2004 8"	25mmPL	COMPUTER = ARGO NAVIS		

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NGC 4654		H126-2	Galaxy SAB(rs)cd	F,VL,PME,(D),3*NR
Apr 08 2005 8"	11mmT6	VF,ML,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4660		H71-2	Galaxy E:	VB,S,VSVMBMN
Apr 13 2005 8"	11mmT6	MF,VS,OVAL,NND,R=G		
NGC 4664		H142-1	Galaxy SB(s)0/a	PB,2S*IN M,(=4665)
Apr 14 2016 12"	11mmT6	PF,PS,R,UB,NND,R=G		
Jun 07 2010 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 4665			Non-Existent	B,PL,IR,MBM,*10SP
Apr 26 2009 16"	17mmT4	PF,PS,OVAL,UB,NND,R=F		
Apr 08 2005 8"	11mmT6	VB,ML,OVAL,FNUC,R=G		
NGC 4666		H15-1	Galaxy SABc:	B,VL,ME45,PSBM
Apr 14 2010 16"	11mmT6	PF,PS,EON,FNUC,USB,R=G		
Apr 26 2009 16"	17mmT4	PB,PS,EON,FNUC,R=G		
Apr 28 2006 31"	19mmW	VB,VL,EON,BNUC,VHISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 4684		H181-2	Galaxy SB(r)0+	B,PL,PME25
Apr 14 2010 16"	11mmT6	PF,PS,OVAL,VEXT,UB,NND,R=F		
NGC 4691		H182-2	Galaxy (R)SB(s)0/a pec	PB,PL,E90,MBM
Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,MSB,R=G		
NGC 4697		H39-1	Galaxy E6	VB,L,LE45,SMBMN
Apr 28 2006 31"	19mmW	CB,VL,OVAL,VBNUC,VHISB,R=G		
Apr 14 2004 8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL		
NGC 4698		H8-1	Galaxy SA(s)ab	CB,PL,IR,BM,R
Apr 13 2005 8"	11mmT6	MB,ML,EON,FNUC,MSB,R=G		
NGC 4699		H129-1	Galaxy SAB(rs)b	VB,R,VMBMRN,R
Apr 28 2006 31"	19mmW	CB,CL,OVAL,BNUC,HISB,R=G		
Apr 16 2004 8"	25mmPL	CLEAR - PALM PILOT DIRECTED		
NGC 4700		H524-3	Galaxy SB(s)c? sp	F,L,ME40,VLBM,B*P
May 18 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=F,PA=48		
NGC 4701		H578-2	Galaxy SA(s)cd	F,S
May 18 2014 18"	8mm Ds	PF,PS,OVAL,UB,NND,R=F		
NGC 4703		H514-3	Galaxy Sb sp	EF,CS,PME
May 18 2014 18"	8mm Ds	PF,PS,EON,FNUC,R=G,PA=153		

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NGC 4705 May 18 2014 18"	8mm Ds	H610-3 PF,PS,OVAL,UB,NND,R=F	Galaxy SAB(s)bc: sp	CF,PL,LE
NGC 4708 May 18 2014 18"	8mm Ds	H722-3 PF,PS,OVAL,UB,NND,R=F, MEGASTAR SAYS 14.5 MAG.	Galaxy SA(r)ab pec?	EF,S
NGC 4713 May 18 2014 18"	8mm Ds	H140-1 PF,PS,OVAL,FNUC,R=F	Galaxy SAB(rs)d	PB,L,VLE,GLBM
NGC 4716 May 18 2014 18"	8mm Ds	H140-1 PF,PS,OVAL,UB,NND,R=F, PAIRED W/NGC-4717	Galaxy S0^ pec?	DNEB,NPBRIGHTER\$SMBM
NGC 4717 May 18 2014 18"	8mm Ds	H140-1 VF,PS,OVAL,MEXDT,UB,NND,R=F,PAIRED W/NGC-4716	Galaxy SB(rs)a pec?	DNEB SF ONE FAINTER
NGC 4731 May 22 2004 8"	25mmPL	H41-1 DECENT NIGHT - MEGASTAR CONTROL	Galaxy SB(s)cd	VF,PL,E
NGC 4739 May 14 2007 31"	17mmT4	H515-3 DIFF,PF,PL,R,NND,R=F	Galaxy E+ pec:	F,PL,LE,PGLBM
NGC 4742 Apr 13 2005 8"	11mmT6	H133-1 MF,MS,EL,FNUC,R=F	Galaxy E4:	PB,VS,VBMN=*11,*10SF
NGC 4753 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	H16-1 CB,CL,OVAL,BNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy I0	CB,L,VLE,VGLBM
NGC 4754 Apr 28 2006 31" Apr 14 2004 8"	19mmW 25mmPL	H25-1 CB,CL,OVAL,UB,FNUC,MSB,R=G CLEAR NIGHT - MEGASTAR CONTROL	Galaxy SB(r)0-:	B,PL,R,PSBM,P OF 2
NGC 4759B May 18 2007 31"	17mmT4	H25-1 CB,PL,R,BNUC,HISB,R=E	Non-Existent	
NGC 4760 Apr 13 2005 8"	11mmT6	H25-1 VF,ML,OVAL,NND,AV,R=F	Galaxy E0?	PB,R
NGC 4761 May 18 2007 31"	17mmT4	H25-1 CB,PL,OVAL,BNUC,HISB,R=E	Galaxy E+	EF,ES,1'F DNEB4759
NGC 4762 Apr 28 2006 31" Apr 14 2004 8"	19mmW 25mmPL	H75-2 CB,VL,EON,BNUC,VHISB,R=G CLEAR NIGHT - MEGASTAR CONTROL	Galaxy SB(r)0^? sp	PB,VME31,3B*S,F OF 2
NGC 4764 May 18 2007 31"	17mmT4	H75-2 PB,PS,OVAL,NND,MSB,R=G	Galaxy S?	EF,ES,SF DNEB 4759

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NGC 4772 Apr 08 2005 8"	11mmT6	H24-2 VB,VS,EL,NND,R=F	Galaxy SA(s)a	PF,PS,R,MBM
NGC 4775 Apr 14 2016 12"	11mmT6	H186-2 VF,PS,R,UB,NND,R=F	Galaxy SA(s)d	F,CL,R,VGLBM,R
NGC 4778 May 18 2007 31"	17mmT4	H134-1 CB,PL,R,BNUC,HISB,R=E	Galaxy S0+ sp	VF,S,R,VLBM,F OFDNEB
NGC 4781 Apr 13 2005 8"	11mmT6	H134-1 MF,ML,EL,NND,R=F	Galaxy SB(rs)d	CB,VL,ME
NGC 4809 May 18 2007 31"	17mmT4	H549-2 CF,PL,EON,NND,R=F	Galaxy Im pec	F,DNEB W/4810
NGC 4810 May 18 2007 31"	17mmT4	H536-2 PF,PS,OVAL,NND,R=F	Galaxy Im pec	F,DNEB W/4809
NGC 4818 May 22 2004 8"	25mmPL	H549-2 DECENT NIGHT - MEGASTAR CONTROL	Galaxy SAB(rs)ab pec:	PB,L,PME0,GBM
NGC 4845 May 04 2005 8"	11mmT6	H536-2 MF,MS,EL,EON,FNUC,R=G	Galaxy SA(s)ab sp	PF,PL,PME,VGBM,*NF
NGC 4856 Apr 28 2006 31" Apr 16 2004 8"	19mmW 25mmPL	H68-1 CB,CL,EL,EON,BNUC,MSB,R=G CLEAR - PALM PILOT DIRECTED	Galaxy SB(s)0/a	B,R,PSMBM,*13NP
NGC 4866 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	H162-1 CN.VL,EON,BNUC,MSB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy SA(r)0+: sp	B,PL,ME90,SBMN,S*INV
NGC 4880 Apr 09 2008 8"	11mmT6	H83-3 VF,CS,R,NND,LSB,AV,R=F	Galaxy SA(r)0+:	CF,PL,R,VGLBM,R
NGC 4900 Apr 28 2006 31"	19mmW	H143-1 FB,PL,R,UB,NND,R=F	Galaxy SB(rs)c	CB,CE,*10ATT POS135
NGC 4902 Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	H69-1 VF,CS,R,NND,LSB,AV,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SB(r)b	PB,PL,IR,ST NR
NGC 4904 Apr 09 2008 8"	11mmT6	H517-2 VF,CS,R,NND,AV,R=F	Galaxy SB(s)cd	PB,PS,R,BM
NGC 4915 Apr 09 2008 8"	11mmT6	H47-4 VF,VS,R,NND,AV,R=F	Galaxy E0	PB,S,R,BM

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NGC 4928 Apr 09 2008 8"	11mmT6	H190-2 VF,PL,OVAL,NND,LSB,R=F	Galaxy SA(s)bc pec	F,PS,VLE,GLBM
NGC 4933A May 18 2007 31"	17mmT4	CB,PL,OVAL,BNUC,HISB,R=G	Galaxy S0/a pec	
NGC 4933B May 18 2007 31"	17mmT4	PB,PS,OVAL,FNUC,MSB,R=G	Galaxy E pec	
NGC 4939 Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	DIFF,VF,PL,OVAL,NND,LSB,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SA(s)bc	PB,L,R,GMBM
NGC 4941 Apr 09 2008 8"	11mmT6	PF,CS,EL,OVAL,UB,NND,R=F	Galaxy (R)SAB(r)ab:	PF,L,E,GBMBN,R
NGC 4958 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	CB,P,EON,BNUC,HISB,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy SB(r)0? sp	VB,PS,E,BMBN
NGC 4981 Apr 09 2008 8"	11mmT6	PF,CS,R,NND,LSB,R=F	Galaxy SAB(r)bc	B,PL,R,*10SF1'
NGC 4984 Apr 09 2008 8"	11mmT6	PB,PS,OVAL,FNUC,MSB,R=G	Galaxy (R)SAB(rs)0+	B,PL,R,PSMBM
NGC 4995 Apr 28 2006 31" May 22 2004 8"	19mmW 25mmPL	PB,CL,OVAL,FNUC,MSB,R=F DECENT NIGHT - MEGASTAR CONTROL	Galaxy SAB(rs)b	PB,PL,R,VGPMBM,*8NP
NGC 4999 Apr 09 2008 8"	11mmT6	DIFF,VF,PS,OVAL,NND,AV,R=F	Galaxy SB(r)b	CF,PL,R,LBM,ER
NGC 5018 Apr 09 2008 8" May 22 2004 8"	11mmT6 25mmPL	PB,PS,OVAL,FNUC,R=G DECENT NIGHT - MEGASTAR CONTROL	Galaxy E3:	CB,S,R,MBMPBN
NGC 5020 Apr 09 2008 8"	11mmT6	PF,PS,R,FNUC,LSB,R=G	Galaxy SAB(rs)bc	CF,CL,VLE,LBM
NGC 5022 May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=21	Galaxy SBb pec sp	VF,PL,E30,GBM,F5018
NGC 5037 Apr 09 2008 8"	11mmT6	VF,VS,EON,NND,AV,R=F	Galaxy SA(s)a:	CF,PS,VLE,BM
NGC 5044		H511-2	Galaxy E0	PB,PL,R,BM

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NGC 5044 Apr 09 2008 8"	11mmT6	H511-2 PF,CS,R,FNUC,MSB,R=G	Galaxy E0	PB,PL,R,BM
NGC 5054 Apr 28 2006 31"	19mmW	H513-2 CB,PL,OVAL,UB,NND,R=F	Galaxy SA(s)bc	F,PS,IR
NGC 5068 Apr 26 2009 16" Apr 09 2008 8" Jun 23 2004 8"	11mmT6 11mmT6 25mmPL	H312-2 PF,PL,R,UB,NND,R=F DIFF,VF,PL,R,NND,AV,R=F QUARTER MOON, LEFT @1:30AM.	Galaxy SAB(rs)cd	F,L,IR,BM
NGC 5077 Apr 09 2008 8"	11mmT6	H193-2 PF,PS,OVAL,UB,FNUC,R=G	Galaxy E3-4	PB,S,VLE,SBM,2ND OF3
NGC 5084 Apr 09 2008 8"	11mmT6	H313-2 PF,PL,EON,UB,FNUC,R=G	Galaxy S0 sp	CB,CS,VLE90,BF
NGC 5087 Apr 09 2008 8"	11mmT6	H724-3 PF,PS,OVAL,FNUC,MSB,R=G	Galaxy SA0:	CF,VS,IF
NGC 5129 Apr 09 2008 8"	11mmT6	H653-2 PF,PS,R,NND,AV,R=F	Galaxy E	PB,VS,R,GMBM,**F
NGC 5134 Apr 09 2008 8"	11mmT6	H314-2 VF,VS,OVAL,NND,AV,R=F	Galaxy SA(s)b?	F,PS,LE,VGBM
NGC 5146 Apr 06 2010 12"	11mmT6	H115-3 CF,CS,R,UB,NND,R=F	Galaxy E/S0	VF,VS,STELLAR
NGC 5221 May 23 2012 18"	8.8 ES	H86-3 PF,PS,EON,FNUC,MSB,R=F,PA=120	Galaxy Sb:	VF,S,VLE,1ST OF 3
NGC 5222 May 23 2012 18"	8.8 ES	H85-3 VF,CS,OVAL,MEXT,UB,,NND,AV2,R=F,PA=50	Galaxy E	CF,S,R,BM,2ND OF 3
NGC 5230 May 23 2012 18"	8.8 ES	H87-3 PF,PS,R,UB,NND,R=F	Galaxy SA(s)c	F,L,E,VGBM,3RD OF 3
NGC 5247 May 22 2004 8"	25mmPL	H297-2 DECENT NIGHT - MEGASTAR CONTROL	Galaxy SA(s)bc	CF,VL,VG,PSMBMLN,
NGC 5257 May 23 2012 18"	8.8 ES	H895-2 PF,CS,OVAL,MEXT,FNUC,R=G,PA=135, PAIRED WITH NGC-5258, NO INTERATION VISIBLE	Galaxy SAB(s)b pec	VF,S,R,BM,P OF DNEB
NGC 5258 May 23 2012 18"	8.8 ES	H896-2 PF,PS,OVAL,MEXT,FNUC,R=G,PA=45, PAIRED W/NGC-5257, NO INTERATION VISIBLE	Galaxy SA(s)b: pec	F,S,IR,F OF DNEB

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NGC 5363		H6-1	Galaxy I0?	B,PL,R,PSBM,*8NF
Apr 14 2016 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
Apr 28 2006 31"	19mmW	PB,S,R,FNUC,MSB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5364		H534-2	Galaxy SA(rs)bc pec	CF,L,R,GBM
Apr 28 2006 31"	19mmW	B,CS,R,NND,R=F		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5426		H309-2	Galaxy SA(s)c pec	PF,CL,R,GMBM,SP OF 2
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,R=F. PAIRED W/NGC-5427		
May 23 2012 18"	8.8 ES	PB,PS,OVAL,FNUC,MSB,R=G,PA=5, PAIRED WITH NGC-5427		
Apr 09 2008 8"	11mmT6	VF,VS,OVAL,NND,AV,R=F		
NGC 5427		H310-2	Galaxy SA(s)c pec	PF,CL,R,NF OF 2
May 30 2016 12"	8mm Ds	VF,VS,OVAL,NND,R=F. PAIRED W/NGC-5426		
May 23 2012 18"	8.8 ES	PF,PL,OVAL,MEXT,FNUC,R=G, PA=90, PAIRED WITH NGC-5426		
NGC 5493		H46-4	Galaxy S0 pec sp	PB,VS,R,PSMBM*,*18IN
May 19 2010 12"	7.5mmW	PF,CS,OVAL,MEXT,BNUC,R=G		
NGC 5506		H687-2	Galaxy Sa pec sp	PB,L,E20,LBM
May 19 2010 12"	7.5mmW	DIFF,CF,PS,EON,NND,R=F		
NGC 5507		H49-4	Galaxy SAB(r)0^	CF,S,R,STELLAR
May 19 2010 12"	7.5mmW	PF,CS,OVAL,MEXT,FNUC,MR=G		
NGC 5534			Galaxy (R')SAB(s)ab p:	PF,ST INV,*12NP
May 18 2014 18"	8mm Ds	PF,PS,OVAL,FNUC,R=F		
NGC 5549		H552-3	Galaxy S0	VF,VS,R
May 18 2014 18"	8mm Ds	PF,PS,OVAL,MET,FNUC,R=F		
NGC 5560		H579-2	Galaxy SB(s)b pec	PF,CL,E,GBM
May 30 2016 12"	8mm Ds	PF,PS,VEXT,NND,R=G		
May 23 2012 18"	8.8 ES	PB,PS,EON,FNUC,HSB,R=F,PA=150		
Apr 28 2006 31"	19mmW	B,PL,EON,UB,NND,R=F		
NGC 5566		H144-1	Galaxy SB(r)ab	B,PL,R,PSBM,R,*F1.5'
May 30 2016 12"	8mm Ds	PF,PS,PEXT,FNUC,R=G		
May 23 2012 18"	8.8 ES	PB,PS,OVAL,PEXT,BNUC,R=G, PAIRED WITH NGC-5569		
Apr 28 2006 31"	19mmW	CB,CL,EON,BNUC,HISB,R=G		
May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 5569			Galaxy SAB(rs)cd:	EF,PL,R
May 30 2016 12"	8mm Ds	VF,VS,R,NND,R=F		
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,AV1,R=F, PAIRED WITH NGC-5566		

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NGC 5574		H145-1	Galaxy SB0:-? sp	PF,PS,LE,P OF 2
May 30 2016 12"	7mm TV	PF,PS,OVAL,NND,R=F		
Apr 28 2006 31"	19mmW	F,CL,OVAL,UB,NND,R=F		
NGC 5576		H146-1	Galaxy E3	B,S,R,VSMBM,F OF 2
May 30 2016 12"	7mm TV	F,PS,OVAL,MEXT,FNUC,R=F		
Apr 28 2006 31"	19mmW	B,L,OVALBNUC,HISB,R=G		
NGC 5577			Galaxy SA(rs)bc:	PF,PL,VME53
May 30 2016 12"	8mm Ds	VF,PS,EON,UB,NND,AV1,R=F		
NGC 5599		H927-3	Galaxy Sb	F,S,LE
Apr 28 2006 31"	19mmW	F,PS,EON,NND,R=F		
NGC 5618		H763-3	Galaxy SB(rs)c	EF,S
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 5619			Galaxy SAB(rs)b	VF,S,R,VGBM
Apr 28 2006 31"	19mmW	PF,PS,EL,OVAL,FNUC,R=F		
NGC 5634		H70-1	Globular	GCL,VB,CL,R,GBM,RRR
May 30 2016 12"	8mm Et	F,S,R=F		
Apr 14 2016 12"	11mmT6	SURPRISE IN VIRGO.		
Apr 28 2006 31"	19mmW	PB,CL,R,R=G, CAN'T RESOLVE STARTS. VIII		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @ 1:30AM.		
NGC 5636		H580-2	Galaxy SAB(r)0+	EF,CL,R,NP OF 2
May 19 2010 12"	7.5mmW	VF,CS,OVAL,UB,NND,R=F		
NGC 5638		H581-2	Galaxy E1	CB,PL,R,SF OF 2
May 19 2010 12"	7.5mmW	PF,PS,R,UB,NND,R=F		
NGC 5652		H891-2	Non-Existent	PB,PL,VLE,BM
Apr 28 2006 31"	19mmW	F,S,OVAL,UB,NND,R=F		
NGC 5661		H892-2	Galaxy SBb:	VF,PS,IE
Apr 29 2006 31"	19mmW	CF,PS,EON,NND,R=F		
NGC 5668		H574-2	Galaxy SA(s)d	F,PS,VLE,*14INV
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
NGC 5679A			Galaxy Sc	
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F, PA=45		
Apr 29 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 5679B			Non-Existent	
May 23 2012 18"	8.8 ES	PF,PS,OVAL,MEXT,UB,NND,R=F, PA=145		

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NGC 5679B			Non-Existent	
Apr 29 2006 31"	19mmW	VF,VS,OVAL,NND,AV,R=F		
NGC 5701		H575-2	Galaxy (R)SB(rs)0/a	CB,PS,R,MBM,*11P15S
May 30 2016 12"	8mm Ds	PF,PS,R,UB,NND,R=F		
Apr 29 2006 31"	19mmW	CB,S,R,FNUC,MSB,R=F		
NGC 5718		H550-3	Galaxy S0-	VF,S,R,VGLBM,*8,9NF
May 23 2012 18"	8.8 ES	CF,PS,OVAL,MEXT,UB,NND,AV2,R=F		
Apr 18 2012 18"	11mmT6	PB,PS,EON,FNUC,HSB,R=G, PA=60		
NGC 5746		H126-1	Galaxy SAB(rs)b? sp	B,L,VME170,BMBN
May 04 2005 8"	11mmT6	VB,VL,EL,EON,FNUC,R=G		
NGC 5750		H183-1	Galaxy SB(r)0/a	PF,PS,VLE,R
May 19 2010 12"	7.5mmW	CF,PS,OVAL,UB,NND,R=F		
NGC 5774			Galaxy SAB(rs)d	PF,PL,R,NP OF 2
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
NGC 5775		H554-3	Galaxy SBc? sp	F,PS,VME148,GVLBM
May 19 2010 12"	7.5mmW	PF,PS,EON,UB,NND,R=F		
NGC 5806		H539-2	Galaxy SAB(s)b	CB,CL,E165,SBMN
May 19 2010 12"	7.5mmW	PF,PS,OVAL,MEXT,FNUC,R=F		
NGC 5813		H127-1	Galaxy E1-2	B,PS,R,PSMBM
Apr 09 2008 8"	11mmT6	PF,PS,OVAL,FNUC,MSB,R=G		
NGC 5831		H540-2	Galaxy E3	PB,S,MBM
May 19 2010 12"	7.5mmW	CF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 5838		H542-2	Galaxy SA0-	PB,PS
May 19 2010 12"	7.5mmW	PF,PS,EON,FNUC,MUSB,R=F		
NGC 5839		H541-2	Galaxy SAB(rs)0^:	PF,PS
May 19 2010 12"	7.5mmW	CF,VS,R,FNUC,R=F		
NGC 5846		H128-1	Galaxy E0-1	VB,PL,R,PSBMN,F*INVS
May 19 2010 12"	7.5mmW	PF,PS,R,FNUC,R=G		
Apr 28 2006 31"	19mmW	CB,CL,R,FNUC,R=G		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
NGC 5846A			Galaxy cE2-3	
Apr 28 2006 31"	19mmW	PF,PS,OVAL,NND,R=F		
NGC 5850		H543-2	Galaxy SB(r)b	CF,S,LE,PSBM

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NGC 5850		H543-2	Galaxy SB(r)b	CF,S,LE,PSBM
May 19 2010 12"	7.5mmW	DIFF,CF,PS,R,UB,NND,R=F		
NGC 5854		H544-2	Galaxy SB(s)0+ sp	PB,S,VLE,LBM,AM ST
May 19 2010 12"	7.5mmW	PF,PS,EON,FNUC,R=F		
NGC 5864		H585-2	Galaxy SB(s)0^? sp	PF,CS,ILE,GBM,*14F
May 19 2010 12"	7.5mmW	PF,PS,EON,UB,NND,R=F		
PGC 36325			Galaxy Pec	
May 18 2007 31"	17mmT4	VF,S,R,NND,R=F		
PGC 36723			Galaxy SAB(rs)b? pec	
May 18 2007 31"	17mmT4	PF,PS,OVAL,NND,R=P		
PGC 36733			Galaxy SB(s)b: pec	
May 18 2007 31"	17mmT4	PB,PS,EL,OVAL,NND,R=F		
PGC 36742			Galaxy SB(s)c pec	
May 18 2007 31"	17mmT4	VF,VS,OVAL,NND,AV,R=F		
PGC 40602			Galaxy S?	
Mar 30 2014 18"	7mm TV	VF,VS,R,UB,NND,R=F		
PGC 41410			Galaxy SAB(s)c:	
May 14 2007 31"	17mmT4	CF,CS,EL,OVAL,NND,R=F		
PGC 41666			Galaxy	
May 14 2007 31"	17mmT4	PF,CS,EON,UB,NND,R=F		
PGC 41726			Galaxy E	
May 14 2007 31"	17mmT4	PF,PS,EON,UB,NND,R=F		
PGC 43728			Galaxy Sab	
May 18 2007 31"	17mmT4	PB,PS,EL,OVAL,FNUC,MSB,R=G		
PGC 43762			Galaxy	
May 18 2007 31"	17mmT4	VF,VS,R,NND,AV,R=F		
PGC 43944			Galaxy S	
May 18 2007 31"	17mmT4	DIFF,CF,PL,EON,UB,NND,R=F		
PGC 44358			Galaxy Sd: sp	
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=100		
PGC 45084			Galaxy IB(s)m sp	
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=110		

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PGC 51389				Galaxy C
Apr 28 2006	31"	19mmW	VF,VS,R,NND,R=F	
PGC 51400				Galaxy SB(s)d
Apr 28 2006	31"	19mmW	CF,CS,OVAL,NND,R=F	
PGC 51622				Galaxy Sbc
Apr 28 2006	31"	19mmW	F,S,R,NND,R=F CLASS O1503	
PGC 51909				Galaxy Sc
Apr 29 2006	31"	19mmW	VF,VS,EON,NND,AV,R=F	
PGC 52199				Galaxy S0
Apr 29 2006	31"	19mmW	F,VS,R,NND,R=F	
PK 318+41.1				Planetary Neb 3b+3a
Jun 07 2010	12"	9mm	CF,PL,PATCHY, NO CENTRAL STAR DETECTED,R=P	