

Ursa Major - The Great Bear

CR 285			Open Cluster IV1p	
Jul 21 2007	1.9"	12x50	EB,EL,VERY LOOSE,R=G	
IC 694			Galaxy SBm? pec	
Jun 22 2012	18"	8.8 ES	PF,PS,R,UB,NND,R=F,PAIRED W/NGC-3690	
IC 2574			Galaxy SAB(s)m	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
MAC 1039+4754			Galaxy	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F	
MAC 1043+4053			Galaxy	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F	
MAC 1132+5307			Galaxy	
Feb 23 2006	31"	17mmT4	PF,VS,R,NND,R=F	
MAC 1133+5307A			Galaxy	
Feb 23 2006	31"	17mmT4	VF,VS,OVAL,NND,AV,RF=F	
MAC 1133+5307B			Galaxy	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F	
MAC 1133+5308			Galaxy	
Feb 23 2006	31"	17mmT4	VF,VS,R,NND,AV,R=F	
NGC 2639			H204-1	Galaxy (R)SA(r)a:?
Mar 16 2010	12"	11mmT6	PB,PS,OVAL,UB,NND,R=F	CB,S,E130,PSMBM
NGC 2681			H242-1	Galaxy (R')SAB(rs)0/a
May 10 2005	8"	11mmT6	MB,FS,R,FNUC,R=F	VB,VL,VG,VSMBM*10
NGC 2685				Galaxy (R)SB0+ pec
Mar 04 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F	PF,R,F*INCENTRE
NGC 2742			H249-1	Galaxy SA(s)c:
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,R=F	CB,CL,E90,ER
NGC 2756			H828-2	Galaxy Sb
Mar 28 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=F	PB,PS,E,VGBM
NGC 2768			H250-1	Galaxy E6:
Mar 04 2006	8"	11mmT6	MB,ML,OVAL,NND,R=F	CB,CL,LE,PSBMLBN
NGC 2787			H216-1	Galaxy SB(r)0+
Mar 04 2006	8"	11mmT6	F,PS,R,NND,R=F	B,PL,LE90,MBM,R,*INV

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NGC 2805		H878-3	Galaxy SAB(rs)d	VF,L,R,MBM
Jun 07 2010 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 2841		H205-1	Galaxy SA(r)b:	VB,L,VME151,VSMBM*10
Mar 04 2006 8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G		
NGC 2880		H260-1	Galaxy SB0-	B,CS,R,MBM,AM ST
Mar 04 2006 8"	11mmT6	PF,PS,R,NND,R=F		
NGC 2950		H68-4	Galaxy (R)SB(r)0^	B,PS,R,VGVMBMN
Mar 04 2006 8"	11mmT6	PB,PS,R,FNUC,,R=G		
NGC 2976		H285-1	Galaxy SAc pec	B,VL,ME152,ST INV
Mar 04 2006 8"	11mmT6	DIFF,F,FL,EON,NND,R=F		
NGC 2985		H78-1	Galaxy (R')SA(rs)ab	VB,CL,R,PSMBM,*INV F
Mar 04 2006 8"	11mmT6	PB,FS,OVAL,FNUC,R=G		
NGC 3031	M81		Galaxy SA(s)ab	EB,EL,E156,GSVMBMN 2
Apr 20 2018 12"	11mmT6			
Jul 25 2017 12"	11mmT6	NOT BAD.		
May 14 2017 12"	11mmT6	EXCELLENT		
Jul 01 2016 12"	8mm Et	EYE CANDY		
Apr 14 2016 12"	8mm Ds	F,S,OVAL,NND,R=G		
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 08 2007 1.9"	12x50	FB,L,OVAL,FNUC,R=G		
Aug 20 2006 1.9"	12x50	PB,PL,OVAL,FNUC,HISB,R=G		
Mar 19 2006 8"	19mmW	PB,PL,EL,EON,BNUC,R=G		
May 04 2005 8"	19mmW	VB,VL,OVAL,BNUC,VHISB,R=E!		
Apr 04 2005 8"	11mmT6	VB,VL,EON,NUC,HISB,R=E!!		
Feb 10 2005 8"	11mmT6	MF,ML,OVAL,NND,R=F		
Apr 14 2004 31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 3034	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
Apr 20 2018 12"	11mmT6			
Jul 25 2017 12"	11mmT6	NOT BAD		
May 14 2017 12"	11mmT6	EXCELLENT		
Jul 01 2016 12"	8mm Et	EYE CANDY		
Apr 14 2016 12"	8mm Ds	F,S,PEXT,NND,R=G,BRIGHT KNOT ON ONE END.		
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		

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NGC 3034	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
Mar 30 2014 28"	17mmAT	SUPER NOVA IN M-82. NEAT TO SEE. M-82 LOOKED GREAT WITH THE DUST LANES		
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 08 2007 1.9"	12x50	FB,FS,OVAL,NND,R=F		
Aug 20 2006 1.9"	12x50	PB,L,OVAL,FNUC,R=G		
Mar 19 2006 8"	19mmW	PB,PL,EON,FNUC,R=G		
May 04 2005 8"	19mmW	VB,ML,EL,EON,BNUC,VHISB,R=E!		
Apr 14 2004 31"	17mmT4	CLEAR NIGHT - MEGASTAR CONTROL		
Apr 05 2004 8"	25mmPL	FULLMOON - **MEGASTAR CONTROL**		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Feb 28 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
Dec 30 2003 8"	25mmPL	H/M COLD		
NGC 3065		H333-2	Galaxy SA(r)0^	PF,VS,R,BM,*11NR
Mar 28 2011 12"	5mm TV	VF,PS,R,UB,NND,AV,R=F		
NGC 3073		H853-3	Galaxy SAB0-	VF,S,VGLBM
Mar 28 2011 12"	5mm TV	VF,VS,R,UB,NND,AV,R=F		
NGC 3077		H286-1	Galaxy I0 pec	CB,CL,MBM,R WITH RAY
Mar 13 2007 8"	11mmT6	PF,L,OVAL,NND,AV,R=F		
May 24 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
NGC 3079		H47-5	Galaxy SB(s)c sp	VB,L,ME135
Mar 04 2006 8"	11mmT6	PF,FL,EON,NND,R=F		
NGC 3184		H168-1	Galaxy SBc	PB,VL,R,VGBM
Mar 13 2007 8"	11mmT6	VF,S,R,NND,AV,R=F		
NGC 3198		H199-1	Galaxy SB(rs)c	PB,VL,ME45,VGBM
Mar 13 2007 8"	11mmT6	VF,S,EON,NND,AV,R=F		
NGC 3206		H266-1	Galaxy SB(s)cd	PB,CL,E,VGLBM
Apr 09 2010 12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
NGC 3225		H882-2	Galaxy Scd:	CF,PL,LE,VGBM
Mar 28 2011 12"	5mm TV	VF,VS,OVAL,NND,AV,R=F		
NGC 3310		H60-4	Galaxy SAB(r)bc pec	CB,PL,R,VG,VSMBMN
Mar 13 2007 8"	11mmT6	CB,PS,R,FNUC,R=G		
NGC 3319		H700-3	Galaxy SB(rs)cd	CF,L,IE,MB,S OF M
Apr 09 2010 12"	11mmT6	DIFF,CF,PS,OVAL,MEXT,NND,AV,R=F		

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NGC 3359		H52-5	Galaxy SB(rs)c	PB,L,E0,GLBM
Apr 09 2010 12"	11mmT6	PF,PS,OVAL,PEXT,FNUC,R=G		
NGC 3406			Galaxy E	PB,R,PGBM
May 30 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F		
NGC 3435		H887-2	Galaxy Sb	CF,PS,LE,VGBM
May 30 2014 18"	8mm Ds	VF,PS,OVAL,UB,NND,R=F		
NGC 3440		H914-3	Galaxy SBb? sp	VF,S,LE
May 30 2014 18"	8mm Ds	PF,PS,EON,UB,NND,R=F,PA=50		
NGC 3445		H267-1	Galaxy SAB(s)m	CB,PL,IR,VGLBM,*NF2'
May 30 2014 18"	8mm Ds	PFL,PS,R,UB,NND,R=F		
NGC 3448		H233-1	Galaxy I0	B,PL,ME67,GBM
Apr 09 2010 12"	11mmT6	PF,PS,EON,UB,NND,R=F		
NGC 3458		H268-1	Galaxy SAB0:	VB,VS,R,STELLAR
Apr 09 2010 12"	11mmT6	PB,CS,R,BNUC,R=G		
NGC 3471		H972-3	Galaxy Sa	VF,S,R,BM
Apr 09 2010 12"	11mmT6	PF,CS,OVAL,UB,NND,R=F		
NGC 3516		H336-2	Galaxy (R)SB(s)0^:	PB,VS,IR,PSMBM*
Jul 14 2010 12"	7.5mmW	PF,CS,OVAL,FNUC,R=F		
NGC 3556	M108	H46-5	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
Apr 20 2018 12"	11mmT6			
Jul 15 2015 12"	17mmT4			
May 23 2015 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"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Mar 08 2007 1.9"	12x50	F,S,EON,NND,R=F		
Aug 20 2006 1.9"	12x50	PF,PS,OVAL,NND,R=F		
Mar 19 2006 8"	19mmW	FB,FL,EL,EON,RNUC,R=G		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD		
NGC 3583		H728-2	Galaxy SB(s)b	PB,PL,R,VGMBM
Jul 14 2010 12"	7.5mmW	DIFF,CF,PS,OVAL,UB,NND,R=F		
NGC 3587	M97		Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM
Apr 20 2018 12"	11mmT6			
Apr 14 2016 12"	8mm Ds	PRETTY FAINT. NO FILTER USED.		

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NGC	3587	M97	Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM
	Aug 15 2015	12"	11mmT6	
	May 23 2015	12"	11mmT6	
	Jul 13 2013	18"	7mm TV	MORE EYE CANDY
	May 23 2012	18"	17mmAT	EYE CANDY
	Mar 16 2012	18"	17mmAT	2012 M.M.
	Jul 04 2011	12"	11mmT6	LAST OBJECT OF THE NIGHT. BACK TO WORK.
	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 08 2007	1.9"	12x50	B,R,R=G. LOOKS STELLAR
	Aug 20 2006	1.9"	12x50	PF,VS,AV,R=F
	Mar 19 2006	8"	19mmW	PB,L,R,R=G
	Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
	Dec 26 2003	8"	25mmPL	Q/M COLD
NGC	3610		H270-1	Galaxy E5:
	Mar 17 2007	8"	11mmT6	PB,S,R,BNUC,R=G
	Mar 13 2007	8"	11mmT6	PF,PS,R,NND,R=F
NGC	3613		H271-1	Galaxy E6
	Mar 17 2007	8"	11mmT6	F,PS,OVAL,FNUC,R=G
NGC	3619		H244-1	Galaxy (R)SA(s)0+:
	Mar 17 2007	8"	11mmT6	F,PS,R,NND,R=F
NGC	3622		H879-2	Galaxy S?
	Jul 14 2010	12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,AV,R=F
NGC	3631		H226-1	Galaxy SA(s)c
	Mar 17 2007	8"	11mmT6	B,PL,R,FNUC,R=G
NGC	3642		H245-1	Galaxy SA(r)bc:
	Mar 17 2007	8"	11mmT6	F,PL,OVAL,NND,R=F
NGC	3652		H775-2	Galaxy Scd?
	Mar 28 2011	12"	5mm TV	PF,PS,OVAL,UB,NND,R=F,PA=115
NGC	3654		H880-2	Galaxy S?
	May 30 2014	18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F
NGC	3656		H782-2	Galaxy (R')I0: pec
	May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F
NGC	3657		H768-3	Galaxy SAB(rs)c pec
	May 30 2014	18"	8mm Ds	PF,PS,R,UB,NND,R=F

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NGC 3668 Jul 14 2010 12"	7.5mmW	H845-2 VF,CS,R,UB,NND,AV,R=F	Galaxy Sbc	F,PS,IR,GBM,*9NP
NGC 3669 Jul 14 2010 12"	7.5mmW	H829-2 VF,CS,EON,UB,NND,AV,R=P	Galaxy SBcd: sp	VF,PL,PME135,ER
NGC 3674 May 30 2014 18"	8mm Ds	H886-2 PF,PS,OVAL,EEXT,UB,NND,R=F,PA=25	Galaxy S0 sp	PF,IF
NGC 3675 Mar 17 2007 8"	11mmT6	H194-1 PB,PL,EL,OVAL,BNUC,R=G	Galaxy SA(s)b	VB,CL,VME0,VSMBMN
NGC 3683 Mar 28 2011 12"	5mm TV	H246-1 VF,PS,OVAL,UB,NND,AV,R=F	Galaxy SB(s)c?	CB,PL,E
NGC 3690 Jun 22 2012 18"	8.8 ES	H247-1 PF,PS,OVAL,UB,NND,R=F,PAIRED W/IC-694	Galaxy IBm pec	PB,PS,VLE80,PGBM
NGC 3718 May 23 2012 18" Feb 23 2006 31"	8.8 ES 17mmT4	H221-1 F,S,OVAL,MEXT,UB,NND,R=F VB,VL,OVAL,BNUC,HISB,R=G	Galaxy SB(s)a pec	PB,VL,R,VGLBM
NGC 3726 Mar 17 2007 8"	11mmT6	H730-2 PF,PL,OVAL,NND,R=F	Galaxy SAB(r)c	PB,VL,LE0,VSMBM,*11N
NGC 3729 Feb 23 2006 31"	17mmT4	H222-1 FB,FL,R,BNUC,HISB,R=G	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
NGC 3738 Jun 22 2012 18"	8.8 ES	H783-2 B,PS,OVAL,MEXT,UB,NND,R=F	Galaxy Im	PB,PL,BM
NGC 3756 Mar 01 2011 12"	11mmT6	H784-2 PF,PS,OVAL,MEXT,UB,NND,R=F	Galaxy SAB(rs)bc	PF,L,LE
NGC 3813 Mar 17 2007 8"	11mmT6	H94-1 CF,CS,OVAL,NND,R=F	Galaxy SA(rs)b:	CB,PL,PME90,BM
NGC 3877 Apr 14 2010 16" Mar 17 2007 8"	11mmT6 11mmT6	H201-1 PB,PL,EON,FNUC,R=G PF,PL,EON,NND,R=F	Galaxy SA(s)c:	B,L,ME37
NGC 3888 Mar 17 2007 8"	11mmT6	H785-2 PF,PS,UB,NND,R=F	Galaxy SAB(rs)c	PB,S,LE,PGBM
NGC 3893 Mar 17 2007 8"	11mmT6	H738-2 VF,PS,OVAL,NND,AV,R=F	Galaxy SAB(rs)c:	B,PL,R,MBM

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NGC 3898 Mar 17 2007 8"	11mmT6	H228-1 PB,PS,OVAL,FNUC,R=G	Galaxy SA(s)ab	B,PL,LE,SVMBM
NGC 3938 Mar 17 2007 8"	11mmT6	H203-1 DIFF,PF,PL,OVAL,NND,R=F	Galaxy SA(s)c	B,VL,R,BMPBN,ER
NGC 3941 Mar 17 2007 8"	11mmT6	H173-1 PB,CS,OVA,,BNUC,R=G	Galaxy SB(s)0^	VB,PL,R,SMBM*9
NGC 3945 Mar 17 2007 8"	11mmT6	H251-1 PF,S,OVAL,NND,R=F	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
NGC 3949 Mar 17 2007 8"	11mmT6	H202-1 PF,S,OVAL,NND,R=F	Galaxy SA(s)bc:	CB,PL,PME,VGBM
NGC 3953 Mar 18 2007 8"	11mmT6	H45-5 PB,PL,EL,OVAL,FNUC,MSB,R=G	Galaxy SB(r)bc	CB,L,E0,VSMBLRN
NGC 3982 Mar 18 2007 8"	11mmT6	H62-4 PF,L,OVAL,NND,=F	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
NGC 3992 Apr 20 2018 12" Jul 15 2015 12" Mar 16 2012 18" Mar 01 2011 12" Mar 08 2010 12" Mar 20 2009 16" Mar 19 2006 8" Mar 19 2004 8" Mar 09 2004 8"	M109 11mmT6 17mmT4 17mmAT 17mmAT 26mm 26mm 19mmW 25mmPL 25mmPL	H61-4 2012 M.M. M.M. 2011 - MANUAL SETTING CIRCLES M.M. 2010 MANUAL SETTING CIRCLES MESSIER MARATHON - 2009 F,FS,OVAL,NND,R=F 2004 MESSIER MARATHON - ARGO NAVIS COMPTER = ARGO NAVIS	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
NGC 3998 Mar 18 2007 8"	11mmT6	H229-1 PB,PL,OVAL,FNUC,MSB,R=G	Galaxy SA(r)0^?	CB,PS,R,VG,SMBM
NGC 4013 Mar 01 2011 12"	11mmT6	H733-2 PF,PS,EON,BNUC,R=G	Galaxy Sb sp	B,CL,ME62,VSVMBM*10
NGC 4026 Mar 18 2007 8"	11mmT6	H223-1 PB,L,OVAL,FNUC,MSB,R=G	Galaxy S0 sp	VB,CL,ME176,VSVMBMBN
NGC 4036 Mar 18 2007 8"	11mmT6	H253-1 PB,PL,EON,FNUC,MSB,R=G	Galaxy S0-	VB,VL,E
NGC 4041 Mar 18 2007 8"	11mmT6	H252-1 PF,PL,R,NND,R=F	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN

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NGC 4047		H741-2	Galaxy (R)SA(rs)b:	PB,PS,R
Mar 01 2011 12"	11mmT6	PF,CS,R,UB,NND,R=F		
NGC 4051		H56-4	Galaxy SAB(rs)bc	B,VL,E,VGVSMBM*11
Mar 18 2007 8"	11mmT6	PF,L,R,NND,AV,R=F		
NGC 4062		H174-1	Galaxy SA(s)c	PB,VL,ME97,VGBM
Mar 28 2011 12"	7mm TV	PF,PS,OVAL,PEXT,R=G,BRIGHTER TOWARDS THE MIDDLE		
NGC 4085		H224-1	Galaxy SAB(s)c:?	B,PL,ME78,VSBM
Mar 18 2007 8"	11mmT6	VF,PS,EL,EON,NND,AV,R=F		
NGC 4088		H206-1	Galaxy SAB(rs)bc	B,CL,E55,LBM
Mar 18 2007 8"	11mmT6	PF,L,EON,UB,NND,R=F		
NGC 4096		H207-1	Galaxy SAB(rs)c	PB,VL,ME32
Mar 01 2011 12"	11mmT6	PF,PS,EON,FNUC,R=F		
NGC 4100		H717-3	Galaxy (R')SA(rs)bc	PB,VL,VME161,VGVLBM
Mar 01 2011 12"	17mmAT	PF,PS,EON,UB,NND,R=F		
NGC 4102		H225-1	Galaxy SAB(s)b?	B,PS,R,BMBN,*12SPVNR
Mar 18 2007 8"	11mmT6	PF,PS,EL,OVAL,UB,NND,R=F		
NGC 4144		H747-2	Galaxy SAB(s)cd? sp	PF,CL,VME109,VGBM
Mar 01 2011 12"	11mmT6	PF,PS,EON,FNUC,R=F		
NGC 4157		H208-1	Galaxy SAB(s)b? sp	PF,CL,VME60,(DOUBLE)
Mar 16 2012 18"	8.8 ES	PFB,PS,EON,FNUC,R=F, A.L. FLAT GALAXY		
Aug 06 2010 12"	7mm TV	PF,PS,EON,UB,NND,R=F		
NGC 4271		H804-2	Galaxy S0-:	PB,PL,IF
Mar 28 2011 12"	5mm TV	PF,VS,OVAL,VFNUC,R=F		
NGC 4290		H805-2	Galaxy SB(rs)ab:	PB,L,R,GMBM
Mar 01 2011 12"	11mmT6	CF,CS,OVAL,UB,NND,R=F		
NGC 4605		H254-1	Galaxy SB(s)c pec	B,L,VME118,GLBM
Aug 31 2010 12"	7mm TV	DIFF,CF,PS,OVAL,UB,NND,R=F. PA=90		
NGC 5204		H63-4	Galaxy SA(s)m	PB,CL,IR,GMBM,R
Mar 01 2011 12"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 5308		H255-1	Galaxy S0- sp	B,PL,ME57,PSMBEN
Mar 01 2011 12"	11mmT6	PF,CS,EON,FNUC,R=G		
NGC 5322		H256-1	Galaxy E3-4	VB,PL,IR,PSMBM

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NGC 5322		H256-1	Galaxy E3-4	VB,PL,IR,PSMBM
Mar 18 2007 8"	11mmT6	PB,L,OVAL,FNUC,HISB,R=G		
NGC 5430		H827-2	Galaxy SB(s)b	PB,S,IE,MBM
Mar 01 2011 12"	11mmT6	CF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 5443		H799-2	Galaxy SB(s)b?	PF,L,E
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,PEXT,UB,NND,AV,R=F		
NGC 5447		H787-3	Knot in Galaxy	PB,S,R,GMBM,CONNM101
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SW SIDE OF - KNOT IN GALAXY		
NGC 5448		H691-2	Galaxy (R)SAB(r)a	PB,CL,VME90,SMBMN
Mar 01 2011 12"	11mmT6	VF,CS,OVAL,MEXT,UB,NND,R=F		
NGC 5457	M101		Galaxy SAB(rs)cd	PB,VL,IR,G,VSMBMBSN 4
Jul 15 2015 12"	17mmT4			
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
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		
Aug 20 2006 1.9"	12x50	F,S,OVAL,NND,R=F		
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		
Mar 10 2004 8"	25mmPL	N/M, NO COMPUTER		
NGC 5462		H789-3	Knot in Galaxy	PB,PL,IR,GBM,CONM101
Mar 01 2011 12"	11mmT6	BRIGHT SPOT SE SIDE - KNOT IN GALAXY		
NGC 5473		H231-1	Galaxy SAB(s)0-:	PB,S,R,GBM
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
Mar 18 2007 8"	11mmT6	PF,PS,OVAL,UB,NND,R=F		
NGC 5474		H214-1	Galaxy S(c)	PB,L,BM
Mar 18 2007 8"	11mmT6	VF,PS,R,NND,AV,R=F		
NGC 5480		H692-2	Galaxy SA(s)c:	F,PS,VGBM,NP OF 2
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 5481		H693-2	Galaxy E+	F,VS,SMBM,STELL,SF-2
Apr 16 2009 16"	17mmT4	PF,PS,R,UB,NND,R=F		
NGC 5485		H232-1	Galaxy SA0 pec	CB,R,VGBM,F OF 2
Mar 18 2007 8"	11mmT6	PF,PS,R,NND,AV,R=F		

Ursa Major - The Great Bear

NGC 5585		H235-1	Galaxy SAB(s)d	PF,L,IR,VGMBM,R
Mar 01 2011 12"	11mmT6	CF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 5631		H236-1	Galaxy SA(s)0^	B,S,R,PSBMN
Mar 18 2007 8"	11mmT6	CF,CS,R,NND,R=F		
PAL 4			Globular	
Apr 06 2010 12"	11mmT6	VF,VS,AV,R=F,FAINT SMUDGE, 12TH MAG START TO WEST.		
PGC 29472			Galaxy SB(s)c? sp	
May 25 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=125		
PGC 31697			Galaxy S?	
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
PGC 31720			Galaxy S?	
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
PGC 31959			Galaxy SBb	
Feb 23 2006 31"	17mmT4	PB,PL,EON,BNUC,HISB,R=G		
PGC 31965			Galaxy S0/a	
Feb 23 2006 31"	17mmT4	PB,PL,EON,FNUC,MSB,R=G		
PGC 34303			Galaxy S0	
Feb 23 2006 31"	17mmT4	PB,PL,R,BNUC,HISB,R=G		
PGC 34733			Galaxy Sd	
Feb 23 2006 31"	17mmT4	FB,FL,EOB,FNUC,MSB,R=G		
PGC 34768			Galaxy SB(s)ab	
Feb 23 2006 31"	17mmT4	FB,FL,R,FNUC,MSB,R=G		
PGC 35609			Galaxy SB0 pec:	
Feb 23 2006 31"	17mmT4	FF,PS,OVAL,NND,R=F		
PGC 35615			Galaxy SA(s)0/a pec:	
Feb 23 2006 31"	17mmT4	PB,FS,R,NND,R=G		
PGC 35618			Galaxy (R')S0/a pec:	
Feb 23 2006 31"	17mmT4	PB,FS,OVAL,FNUC,MSB,R=G		
PGC 35620			Galaxy Sa pec sp	
Feb 23 2006 31"	17mmT4	PB,FS,OVA,FNUC,MSB,R=G		
PGC 35631			Galaxy S?	
Feb 23 2006 31"	17mmT4	PF,PL,EON,NND,R=F		

Ursa Major - The Great Bear

PGC 36343

May 30 2014 18" 8mm Ds VF,PS,EON,UB,NND,R=F,PA=90

Galaxy Scd:

WINN 4

M40

Unknown STAR

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
Aug 20 2006 1.9"	12x50	2-STARS
Mar 19 2006 8"	19mmW	R=F
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS
Dec 30 2003 8"	25mmPL	H/M COLD