

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:?	CB,S,E130,PSMBM
Mar 16 2010	12"	11mmT6	PB,PS,OVAL,UB,NND,R=F	
NGC 2681		H242-1	Galaxy (R')SAB(rs)0/a	VB,VL,VG,VSMBM*10
May 10 2005	8"	11mmT6	MB,FS,R,FNUC,R=F	
NGC 2685			Galaxy (R)SB0+ pec	PF,R,F*INCENTRE
Mar 04 2006	8"	11mmT6	PF,PS,OVAL,NND,R=F	
NGC 2742		H249-1	Galaxy SA(s)c:	CB,CL,E90,ER
Mar 13 2007	8"	11mmT6	PF,PS,OVAL,NND,R=F	
NGC 2756		H828-2	Galaxy Sb	PB,PS,E,VGBM
Mar 28 2011	12"	7mm TV	VF,VS,OVAL,UB,NND,R=F	
NGC 2768		H250-1	Galaxy E6:	CB,CL,LE,PSBMLBN
Mar 04 2006	8"	11mmT6	MB,ML,OVAL,NND,R=F	
NGC 2787		H216-1	Galaxy SB(r)0+	B,PL,LE90,MBM,R,*INV
Mar 04 2006	8"	11mmT6	F,PS,R,NND,R=F	

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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,GSVMBMBN 2
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6	NICE		
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)
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6	NICE		
Apr 20 2018 12"	11mmT6			
Jul 25 2017 12"	11mmT6	NOT BAD		

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NGC	3034	M82	H79-4	Galaxy I0 sp	VB,VL,VME(RAY)
	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		
	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
	May 31 2019 12"	11mmT6	F,PS,OVAL,MEXT,NND,R=F		

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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
Jun 19 2020 12"	11mmT6	PF,PS,R,UB,NND,R=F		
Apr 09 2010 12"	11mmT6	DIFF,CF,PS,OVAL,MEXT,NND,AV,R=F		
NGC 3348		H80-1	Galaxy E0	B,S,ILE,PSBM,*11F21S
Jul 26 2019 12"	8mm Et	PF,PS,R,UB,NND,R=F		
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 3549		H220-1	Galaxy SA(s)c:	CB,CL,CE160
Jun 19 2020 12"	8mm Et	PF,PS,OVAL,PEXT,UB,NND,R=F		
NGC 3556	M108	H46-5	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
Jun 19 2020 12"	11mmT6			
Jun 19 2020 12"	13mmHV	NICE		
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6			
Apr 20 2018 12"	11mmT6			
Jul 15 2015 12"	17mmT4			

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NGC 3556	M108	H46-5	Galaxy SB(s)cd sp	CB,VL,VME79,PBM,R
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
Jun 19 2020 12"	13mmHV	GOOD		
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING		
May 31 2019 12"	11mmT6	WAS HARD TO SEE. OIII DIDN'T HELP.		
Apr 20 2018 12"	11mmT6			
Apr 14 2016 12"	8mm Ds	PRETTY FAINT. NO FILTER USED.		
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 3600		H709-2	Galaxy Sa?	PF,S,LE0,VGBM
Jun 19 2020 12"	8mm Et	PF,PS,OVAL,VEXT,UB,NND,R=F,PA=40		
NGC 3610		H270-1	Galaxy E5:	VB,PS,LE90,VSVMBMSN
Jun 24 2020 12"	8mm Et	F,PS,R,FNUC,R=G		
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	VB,CL,ME305,SMBMN
Jun 19 2020 12"	11mmT6	PF,PS,OVAL,FNUC,R=F		
Mar 17 2007 8"	11mmT6	F,PS,OVAL,FNUC,R=G		

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NGC 3614		H729-2	Galaxy SAB(r)c	F,PL,LE90,GLBM,R
Jun 19 2020 12"	8mm Et	PF,PS,OVAL,UB,NND,R=F		
NGC 3619		H244-1	Galaxy (R)SA(s)0+:	CB,CL,R,VGMBM
Mar 17 2007 8"	11mmT6	F,PS,R,NND,R=F		
NGC 3622		H879-2	Galaxy S?	PB,S,R,GBM
Jul 14 2010 12"	7.5mmW	VF,CS,OVAL,MEXT,UB,NND,AV,R=F		
NGC 3631		H226-1	Galaxy SA(s)c	PB,L,R,SVMBMRN
Jun 03 2019 12"	8mm Et	PF,S,RT,NND,R=F, NO STRUCTURE DETECTED.		
Mar 17 2007 8"	11mmT6	B,PL,R,FNUC,R=G		
NGC 3642		H245-1	Galaxy SA(r)bc:	PB,PL,R,VGBM
Jun 24 2020 12"	8mm Et	VF,S,R,UB,NND,R=F		
Mar 17 2007 8"	11mmT6	F,PL,OVAL,NND,R=F		
NGC 3652		H775-2	Galaxy Scd?	PF,CL,LE,VGBM
Mar 28 2011 12"	5mm TV	PF,PS,OVAL,UB,NND,R=F,PA=115		
NGC 3654		H880-2	Galaxy S?	F,S,LE15
May 30 2014 18"	8mm Ds	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 3656		H782-2	Galaxy (R')I0: pec	PB,S,R,VGBM,*12P
May 30 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F		
NGC 3657		H768-3	Galaxy SAB(rs)c pec	CF,VS,R,STELLAR
May 30 2014 18"	8mm Ds	PF,PS,R,UB,NND,R=F		
NGC 3668		H845-2	Galaxy Sbc	F,PS,IR,GBM,*9NP
Jul 14 2010 12"	7.5mmW	VF,CS,R,UB,NND,AV,R=F		
NGC 3669		H829-2	Galaxy SBcd: sp	VF,PL,PME135,ER
Jul 14 2010 12"	7.5mmW	VF,CS,EON,UB,NND,AV,R=P		
NGC 3674		H886-2	Galaxy S0 sp	PF,IF
May 30 2014 18"	8mm Ds	PF,PS,OVAL,EEXT,UB,NND,R=F,PA=25		
NGC 3675		H194-1	Galaxy SA(s)b	VB,CL,VME0,VSMBMN
Mar 17 2007 8"	11mmT6	PB,PL,EL,OVAL,BNUC,R=G		
NGC 3683		H246-1	Galaxy SB(s)c?	CB,PL,E
Mar 28 2011 12"	5mm TV	VF,PS,OVAL,UB,NND,AV,R=F		
NGC 3690		H247-1	Galaxy IBm pec	PB,PS,VLE80,PGBM
Jun 22 2012 18"	8.8 ES	PF,PS,OVAL,UB,NND,R=F,PAIRED W/IC-694		

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NGC 3718		H221-1	Galaxy SB(s)a pec	PB,VL,R,VGLBM
May 23 2012 18"	8.8 ES	F,S,OVAL,MEXT,UB,NND,R=F		
Feb 23 2006 31"	17mmT4	VB,VL,OVAL,BNUC,HISB,R=G		
NGC 3726		H730-2	Galaxy SAB(r)c	PB,VL,LE0,VSMBM,*11N
Mar 17 2007 8"	11mmT6	PF,PL,OVAL,NND,R=F		
NGC 3729		H222-1	Galaxy SB(r)a pec	PB,PL,LE0,GBM,*12NR
Feb 23 2006 31"	17mmT4	FB,FL,R,BNUC,HISB,R=G		
NGC 3738		H783-2	Galaxy Im	PB,PL,BM
Jun 22 2012 18"	8.8 ES	B,PS,OVAL,MEXT,UB,NND,R=F		
NGC 3756		H784-2	Galaxy SAB(rs)bc	PF,L,LE
Mar 01 2011 12"	11mmT6	PF,PS,OVAL,MEXT,UB,NND,R=F		
NGC 3813		H94-1	Galaxy SA(rs)b:	CB,PL,PME90,BM
Mar 17 2007 8"	11mmT6	CF,CS,OVAL,NND,R=F		
NGC 3877		H201-1	Galaxy SA(s)c:	B,L,ME37
Apr 14 2010 16"	11mmT6	PB,PL,EON,FNUC,R=G		
Mar 17 2007 8"	11mmT6	PF,PL,EON,NND,R=F		
NGC 3888		H785-2	Galaxy SAB(rs)c	PB,S,LE,PGBM
Mar 17 2007 8"	11mmT6	PF,PS,UB,NND,R=F		
NGC 3893		H738-2	Galaxy SAB(rs)c:	B,PL,R,MBM
Jun 03 2019 12"	8mm Et	PF,PS,R,UB,FNUC,R=G		
Mar 17 2007 8"	11mmT6	VF,PS,OVAL,NND,AV,R=F		
NGC 3896		H739-2	Galaxy SB0/a: pec	F,VS
Jun 03 2019 12"	8mm Et	PF,VS,R,UB,NND,R=F		
NGC 3898		H228-1	Galaxy SA(s)ab	B,PL,LE,SVMBM
Mar 17 2007 8"	11mmT6	PB,PS,OVALFNUC,R=G		
NGC 3938		H203-1	Galaxy SA(s)c	B,VL,R,BMPBN,ER
Jun 03 2019 12"	8mm Et	PF,S,R,UB,NND,R=F		
Mar 17 2007 8"	11mmT6	DIFF,PF,PL,OVAL,NND,R=F		
NGC 3941		H173-1	Galaxy SB(s)0^	VB,PL,R,SMBM*9
Mar 17 2007 8"	11mmT6	PB,CS,OVA,,BNUC,R=G		
NGC 3945		H251-1	Galaxy (R)SB(rs)0+	B,PL,R,GMBM,R,*12SP
Mar 17 2007 8"	11mmT6	PF,S,OVAL,NND,R=F		
NGC 3949		H202-1	Galaxy SA(s)bc:	CB,PL,PME,VGBM

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NGC 3949		H202-1	Galaxy SA(s)bc:	CB,PL,PME,VGBM
Mar 17 2007 8"	11mmT6	PF,S,OVAL,NND,R=F		
NGC 3953		H45-5	Galaxy SB(r)bc	CB,L,E0,VSMBLRN
Mar 18 2007 8"	11mmT6	PB,PL,EL,OVAL,FNUC,MSB,R=G		
NGC 3982		H62-4	Galaxy SAB(r)b:	B,PL,R,G,SBM,DISC
Mar 18 2007 8"	11mmT6	PF,L,OVAL,NND,=F		
NGC 3992	M109	H61-4	Galaxy SB(rs)bc	CB,VL,PME,SBMBRN
Apr 20 2018 12"	11mmT6			
Jul 15 2015 12"	17mmT4			
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 19 2006 8"	19mmW	F,FS,OVAL,NND,R=F		
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
Mar 09 2004 8"	25mmPL	COMPTER = ARGO NAVIS		
NGC 3998		H229-1	Galaxy SA(r)0^?	CB,PS,R,VG,SMBM
Mar 18 2007 8"	11mmT6	PB,PL,OVAL,FNUC,MSB,R=G		
NGC 4013		H733-2	Galaxy Sb sp	B,CL,ME62,VSMBM*10
Mar 01 2011 12"	11mmT6	PF,PS,EON,BNUC,R=G		
NGC 4026		H223-1	Galaxy S0 sp	VB,CL,ME176,VSMBMBN
Mar 18 2007 8"	11mmT6	PB,L,OVAL,FNUC,MSB,R=G		
NGC 4036		H253-1	Galaxy S0-	VB,VL,E
Mar 18 2007 8"	11mmT6	PB,PL,EON,FNUC,MSB,R=G		
NGC 4041		H252-1	Galaxy SA(rs)bc:	B,CL,R,G,PSVMBMRN
Mar 18 2007 8"	11mmT6	PF,PL,R,NND,R=F		
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,VGVSM*11
Jun 03 2019 12"	8mm Et	PF,PS,R,FNUC,R=G		
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,VSMB
Mar 18 2007 8"	11mmT6	VF,PS,EL,EON,NND,AV,R=F		

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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
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

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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,VSMBMSN 4
Mar 25 2020 12"	11mmT6		CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING	
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	
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	

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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
PGC 36343		Galaxy Scd:
May 30 2014 18"	8mm Ds	VF,PS,EON,UB,NND,R=F,PA=90
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

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WINN 4

Dec 30 2003 8"

M40

25mmPL H/M COLD

Unknown STAR