

Astronomical League Globular Cluster Observing Club

33	NGC 288	Sci	H20-6	Globular	GCL,B,L,LE,*12...16	
	Oct 09 2007 8"	11mmT6	PB,PL,SMUDGE, RESOLVED NO STARS,R=G			
44	PAL 1	Cep		Globular		Palomar 1
	Sep 19 2014 18"	8mm Ds	VF,VS,AVII,R=F,, WRO - 9/19/14			
	Sep 14 2012 18"	7mm TV	VF,PS,R=F,FAINT SMUDGE OF A GLOBULAR			
49	NGC 1904	Lep M79		Globular	GCL,PL,ERI,EC,RRR	M 79
	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 26 2006 8"	19mmW	B,PS,,TIGHT,R=F			
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
	Dec 26 2003 8"	25mmPL	Q/M COLD			
51	NGC 2419	Lyn	H218-1	Globular	PB,PL,LE90,VGBM,*4'F	
	Dec 04 2004 8"	7.5mmW	OVAL,R=G			
58	PAL 4	UMa		Globular		Palomar 4
	Apr 06 2010 12"	11mmT6	VF,VS,AV,R=F,FAINT SMUDGE, 12TH MAG START TO WEST.			
59	NGC 4147	Com	H19-1	Globular	GCL,VB,PL,R,GBM,RRR	
	Apr 20 2018 12"	11mmT6				
	May 30 2016 12"	8mm Et	PF,PS,R=F. UNRESOLVED STARS			
	Mar 29 2006 8"	11mmT6	F,S,R,NND,R=F CLASS IX			
	Apr 13 2005 8"	7.5mmW	R,MSB,R=G			
62	NGC 4590	Hya M68		Globular	GCL,L,ERI,VC,IR,ST12	M 68
	May 14 2017 12"	11mmT6	LOW ON HORIZON. JUST A SMUDGE			
	May 30 2016 12"	8mm Et	PF,PS,R=F. LOW ON HORIZON			
	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 27 2006 8"	19mmW	F,L,R,R=F, DENSE CLUSTER			
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
64	NGC 5024	Com M53		Globular	GCL,B,VC,IR,VVMBM,	M 53
	May 30 2016 12"	8mm Et	FMSMR=G. RESOLVED OUTER STARS			
	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	PB,PL,R=G,COMPRESSED			
	Mar 26 2006 8"	19mmW	PB,L,HSB,R=G, DENSE			
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
65	NGC 5053	Com	H7-6	Globular	CL,VF,PL,IR,VGBM,*15	
	May 30 2016 12"	8mm Et	VF,S,R=F			
	Mar 10 2007 1.9"	12x50	PB,PL,R=G,COMPRESSED			
	May 12 2005 31"	19mmW	FAINT,OVAL,R=F			
67	NGC 5272	CVn M3		Globular	GCL,EB,VL,VSMBM,*11.	M 3
	Apr 20 2018 12"	11mmT6				
	May 14 2017 12"	17mmT4	NICE OBJECT. FIRST GLOBULAR OF THE SEASON			
	Aug 07 2016 12"	8mm Et	BRIGHT,SMALL,R=G			

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67	NGC 5272	CVn M3	Globular	GCL,EB,VL,VSMBM,*11.	M 3
May 30 2016	12"	8mm Et	B,L,R=G.	VERY NICE	
May 23 2015	12"	8mm Ds		GOOD SHOW	
Sep 19 2014	12"	17mmAT	B,L,R=F,	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	
Jul 21 2007	1.9"	12x50	PB,S,R=G,	SAME FOV AS C/2006-VZ13	
Mar 10 2007	1.9"	12x50	F,PS,R=F		
Mar 26 2006	8"	19mmW	PB,PL,R,	HSB,R=G	
Apr 04 2005	8"	11mmT6		LARGE, BRIGHT & ROUND!!!	
Aug 14 2004	8"	11mmT6		LARGER THAN I THOUGHT	
Apr 05 2004	8"	25mmPL		FULLMOON - **MEGASTAR CONTROL**	
Mar 19 2004	8"	25mmPL		2004 MESSIER MARATHON - ARGO NAVIS	
Mar 13 2004	8"	25mmPL		COMPUTER = ARGO NAVIS	
70	NGC 5466	Boo	H9-6	Globular	CL,L,VRI,VMC,ST11...
May 30 2016	12"	8mm Et	VF,S,R=G		
May 04 2005	8"	11mmT6	VF,R,R=F		
71	NGC 5634	Vir	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.	
72	NGC 5694	Hya	H196-2	Globular	CB,CS,R,PSBM,R,*9SP
Apr 13 2005	8"	7.5mmW	VS,VF,R,R=F		
74	NGC 5824	Lup		Globular	PB,S,STELL,N
Jul 01 2016	12"	8mm Et	B,S,R=G,	CANNOT RESOLVE STARS	
75	PAL 5	Ser		Globular	Palomar 5
Jul 01 2016	12"	8mm Et	VF,S,R=F		
Jun 09 2007	8"	7.5mmW	VF,VS,AV,R=F		
Jun 04 2005	31"	17mmT4	VF,VS,R,AV,R=F		
76	NGC 5897	Lib	H19-6	Globular	GCL,PF,L,VIR,VGBM,
May 30 2016	12"	8mm Ds	PF,S,R=F		
Jul 21 2007	1.9"	12x50	PF,PS,AV,R=F		
Jul 23 2006	8"	11mmT6	CF,PS,R,R=F		
Jul 15 2006	8"	19mmW	VF,PS,R=F,	DIM, UNRESOLVED.	
May 16 2004	10"	28mm		CLEAR - MEGASTAR CONTROL	
77	NGC 5904	Ser M5	Globular	GCL,VB,L,ECM,*11..15	M 5
Jul 02 2017	12"	17mmT4		CAN RESOLVE SOME STARS.	
May 30 2016	12"	8mm Ds		1ST OBJECT TONIGHT	
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	
Aug 16 2006	1.9"	12x50	B,S,R=G		
Mar 27 2006	8"	19mmW	B,L,R=G,	DENSE, RESOLVE OUTER STARS	

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77	NGC 5904	Ser M5	Globular	GCL,VB,L,ECM,*11..15	M 5
	May 04 2005 8"	11mmT6	VB,VL,R=E!!		
	May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
	Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS		
81	NGC 5986	Lup	Globular	GCL,VB,L,R,VGBM,*13.	
	Jul 01 2016 12"	8mm Et	F,S,R=F, FAINT OUTER STARS		
82	PAL 14	Her	Globular		Palomar 14
	May 21 2009 16"	11mmT6	CF,PS,R=F, UNRESOLVED,STAR IN FRONT.		
84	NGC 6093	Sco M80	Globular	GCL,VB,L,VMBM(VAR*)	M 80
	Jul 01 2016 12"	8mm Et	B,F,R=G		
	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		
	Aug 20 2006 1.9"	12x50	PF,S,R=F		
	Mar 27 2006 8"	19mmW	VB,S,R=G,TIGHT GROUP		
	May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
85	NGC 6121	Sco M4	Globular	CL,8OR1OB*LINE,RRR	M 4
	Jul 02 2017 12"	17mmT4	WASHED OUT. MOON NINE DAYS OLD.		
	Aug 07 2016 12"	8mm Et	BRIGHT, LARGE,R=E		
	May 30 2016 12"	8mm Ds	F,L,R=G		
	Jul 15 2015 12"	8mm Ds	EYE CANDY TO START		
	May 23 2015 12"	11mmT6	EYE CANDY		
	Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
	Jul 13 2013 18"	7mm TV	MORE EYE CANDY		
	Mar 16 2012 18"	17mmAT	2012 M.M.		
	Jul 04 2011 12"	17mmT4	GOOD LOOKING		
	Mar 01 2011 12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
	Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
	Aug 12 2006 1.9"	12x50	PF,VL,R,R=G		
	Mar 27 2006 8"	19mmW	B,L,R=G,LOOSELY PACKED		
	Aug 14 2004 8"	11mmT6			
	May 22 2004 8"	25mmPL	DECENT NIGHT - MEGASTAR CONTROL		
	May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL		
87	NGC 6144	Sco	H10-6 Globular	CL,CL,MC,GBM,RRR	
	Jul 01 2016 12"	8mm Et	F,L,R=G		
	Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
	Jun 05 2011 12"	17mmT4	NICE GLOB.		
	Jul 03 2005 8"	11mmT6	VF,VS,R,AV,R=F		
88	NGC 6139	Sco	Globular	B,PL,R,PSBM,RR	
	Jul 01 2016 12"	8mm Et	F,S,R=P, LOW ON HORIZON.		
	Jul 03 2005 8"	11mmT6	VF,VS,R,R=F		
89	TER 3	Sco	Globular		Terzan 3
	Nov 26 2006 1.9"	12x50	B,PL,LOOSE,RESOLVESTARS,R=G		
	Nov 09 2006 8"	19mmW	12+,FAINT,R=F		
90	NGC 6171	Oph M10H40-6	Globular	GCL,L,VRI,VMC,R,RRR	M 107
	Jul 02 2017 12"	17mmT4	OK		

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90	NGC 6171	Oph M107H40-6	Globular	GCL,L,VRI,VMC,R,RRR	M 107
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		VF,PS,AV,R=F	
Mar 27 2006	8"	19mmW		F,L,R=F, DENSE	
Jun 14 2004	8"	25mmPL		SPOTTY CLOUDS - MEGASTAR CONTROL	
92	NGC 6205	Her M13	Globular	GCL,EB,VRI,VGECM,*11	M 13 Great Cluster in Hercules
Apr 20 2018	12"	11mmT6			
Jul 02 2017	12"	17mmT4		LOOKED PRETTY GOOD	
May 14 2017	12"	11mmT6		GREAT	
May 30 2016	12"	8mm Et		ALWAYS GREAT	
May 30 2016	12"	8mm Ds		B,L,R=E. OUTSTANDING	
Aug 21 2015	12"	17mmT4			
Jul 15 2015	12"	17mmT4			
Oct 24 2012	8"	11mmT6		VERY NICE - EVEN IN 8"	
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	
Sep 07 2006	1.9"	12x50		DIFF,MB,L,R=G	
Mar 27 2006	8"	19mmW		B,L,R,R=G,DENSE,RESOLVE OUTER STARS	
Apr 08 2005	8"	11mmT6		VB,VL,ROUND,R=E!!!	
Oct 31 2004	1.9"	12x50		BEST GLOBULAR YET, R=VG	
Aug 14 2004	8"	11mmT6		CAN SEPARATE THE FRONT STARS	
Jun 19 2004	31"	17mmT4		***** AWESOME *****	
May 22 2004	8"	25mmPL		DECENT NIGHT - MEGASTAR CONTROL	
Mar 19 2004	8"	25mmPL		2004 MESSIER MARATHON - ARGO NAVIS	
Nov 08 2003	8"	25mmPL		FIRST OBJECT @ WARREN RUPP OBSV.	
93	NGC 6229	Her H50-4	Globular	GCL,VB,L,R,DISC,R	
Jun 17 2016	12"	8mm Ds		COULD NOT RESOLVE	
May 30 2016	12"	8mm Ds		B,S,R=G. NICE SPOT.	
Oct 24 2012	8"	11mmT6		PF,PS,R=F, THIS WAS THE FAINTEST OF THE FOUR FOR THE NIGHT.	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
94	NGC 6218	Oph M12	Globular	GCL,VB,VL,IR,GMBM	M 12
Jul 08 2018	12"	17mmT4		B,S,R=E	
Jul 02 2017	12"	17mmT4		NOT AS BRIGHT AS M 10.	
Jul 15 2015	12"	17mmT4			
May 23 2012	18"	17mmAT		GLOBULAR CLUSTER 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	
Aug 12 2006	1.9"	12x50		PF,S,R,R=F	
Mar 27 2006	8"	19mmW		B,L,R=G,LOOSELY PACKED	
May 04 2005	8"	11mmT6		MB,ML,R=E	
May 16 2004	10"	28mm		CLEAR - MEGASTAR CONTROL	

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95 NGC 6235	Oph	H584-2	Globular	PB,CL,IR,RRR,*14..16	
Jul 15 2006 8"	19mmW	CF,PS,R-F,LITTLE BRIGHTER, DIM STARS			
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM			
96 NGC 6254	Oph M10		Globular	GCL,B,VL,R,GVMBM,RRR M 10	
Jul 08 2018 12"	17mmT4	B,S,R=E			
Jul 02 2017 12"	17mmT4	NOT TOO BAD.			
Aug 21 2015 12"	17mmT4				
Jul 15 2015 12"	17mmT4				
May 23 2012 18"	17mmAT	GLOBULAR CLUSTER 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			
Aug 12 2006 1.9"	12x50	PF,S,R,R=F			
Jul 16 2006 8"	19mmW	PB,PL,R=G, OUTER STARS RESOLVED.			
Mar 27 2006 8"	19mmW	B,L,R=G,LOOSELY PACKED			
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL			
97 NGC 6256	Sco		Globular	GCL,VF,VL,IR,VGBM	
Jul 01 2016 12"	7mm TV	V,S,R=F			
Aug 20 2006 8"	7.5mmW	VF,VS,AV,R=F			
98 PAL 15	LMI		Globular		Palomar 15
May 21 2009 16"	11mmT6	VF,PS,AV,R=F UNRESOLVED.			
99 NGC 6266	Oph M62		Globular	GCL,VB,L,GMBM,RRR,	M 62
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 16 2006 1.9"	12x50	B,S,R=F			
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP			
Aug 14 2004 8"	11mmT6				
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL			
100 NGC 6273	Oph M19		Globular	GCL,VB,L,R,VCM,RRR	M 19
Jul 08 2018 12"	17mmT4	B,S,R=E			
Jul 02 2017 12"	17mmT4	SMUDGE. CANNOT RESOLVE ANY STARS			
May 30 2016 12"	8mm Ds	F,S,R=F. LOW ON HORIZON			
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 16 2006 1.9"	12x50	F,S,R=F			
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP			
May 16 2004 10"	28mm	CLEAR - MEGASTAR CONTROL			
101 NGC 6284	Oph	H11-6	Globular	GCL,B,L,R,CM,ST16...	
Jul 02 2017 12"	17mmT4	PF,PS,R=F. SMUDGE			
May 30 2016 12"	8mm Ds	VF,PS,R=F			
Jul 15 2006 8"	19mmW	PF,PS,R=F			
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL			
102 NGC 6287	Oph	H195-2	Globular	GCL,CB,L,R,GPMCM,RRR	

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102 NGC 6287	Oph	H195-2	Globular	GCL,CB,L,R,GPMCM,RRR	
May 30 2016 12"	8mm Ds	VF,PS,R=F			
Jul 15 2015 12"	8mm Ds				
Jul 15 2006 8"	19mmW	CF,PS,R=F, DIM SMUDGE, NO STARS			
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM			
103 NGC 6293	Oph	H12-6	Globular	GCL,VB,L,R,PSBM,ST16	
Jul 01 2016 12"	7mm TV	F,S,R=F,RESOLVE OUTER STARS			
Jul 15 2015 12"	8mm Ds				
Jul 15 2006 8"	19mmW	PF,PS,R=F,FAINT STARS			
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.			
104 NGC 6304	Oph	H147-1	Globular	GCL,B,CL,R,LBM,RRR	
Jul 01 2016 12"	7mm TV	F,S,R=F,RESOLVE OUTER STARS			
Jul 15 2006 8"	19mmW	CF,PS,R=F,TIGHT SMUDGE, NO STARS			
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.			
105 NGC 6316	Oph	H45-1	Globular	GCL,CB,PS,R,GVMBM	
Jul 01 2016 12"	7mm TV	F,PS,R=F			
Jul 15 2006 8"	19mmW	F,PS,R=F,LOOSE SMUDGE, NO STARS			
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.			
106 NGC 6341	Her M92		Globular	GCL,VB,VL,ECM,ST S	M 92
Apr 20 2018 12"	11mmT6				
Jul 02 2017 12"	17mmT4	GOOD			
May 14 2017 12"	11mmT6	RESOLVED STARS			
May 30 2016 12"	8mm Ds	B,L,R=E. OUTSTANDING. NOT AS LARGE AS M13 THOUGH.			
Aug 21 2015 12"	8mm Ds				
Oct 24 2012 8"	11mmT6	STILL NICE.			
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			
Sep 07 2006 1.9"	12x50	DIFF,PF,PS,R=F			
Mar 27 2006 8"	19mmW	B,L,R,R=G,DENSE,RESOLVE OUTER STARS			
Oct 31 2004 1.9"	12x50	R=G			
Aug 14 2004 8"	11mmT6				
Mar 19 2004 8"	25mmPL	2004 MESSIER MARATHON - ARGO NAVIS			
107 NGC 6325	Oph		Globular	PF,L,R,RR	
Jul 01 2016 12"	7mm TV	VF,PS,R=F			
May 19 2010 12"	9mm	VF,VS,AV,R=F, FAINT SMUDGE, NO STARS TO RESOLVE.			
Jul 31 2005 8"	7.5mmW	VF,VS,R,LOWSB,AV,R=F			
108 NGC 6333	Oph M9		Globular	GCL,B,L,R,ECM,RRR,	M 9
Jul 08 2018 12"	17mmT4	B,L,MR=E			
Jul 01 2016 12"	7mm TV	F,S,R=G,RESOLVED OUTER STARS			
Jul 15 2015 12"	17mmT4				
Mar 16 2012 18"	17mmAT	2012 M.M.			
Jul 04 2011 12"	11mmT6	FINE OBJECT			
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 16 2006 1.9"	12x50	PF,PS,R=F			

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108 NGC 6333	Oph M9	Globular	GCL,B,L,R,ECM,RRR,	M 9
Mar 27 2006 8"	19mmW	F,VL,R,R=F,		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
109 NGC 6342	Oph	H149-1	Globular	CB,PS,LE,ER
Jul 01 2016 12"	7mm TV	PF,PS,R=F		
Jul 15 2006 8"	19mmW	VF,PS,R=F, DIM, UNRESOLVED.		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
110 NGC 6355	Oph	H46-1	Globular	CF,L,R,GBM,RRR
Jul 23 2016 12"	8mm Et	PF,PS,R=F. DID NOT RESOLVE.		
Jul 15 2006 8"	19mmW	EF,S,AV,R=F		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
111 NGC 6356	Oph	H48-1	Globular	GCL,VB,CL,VGVMBM,RR
Jul 23 2016 12"	8mm Et	F,S,R=F. DID NOT RESOLVE		
Jul 21 2007 1.9"	12x50	PF,S,PATCH,R=F		
Jul 15 2006 8"	19mmW	PB,PS,R=G, DIM STARS		
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.		
113 IC 1257	Oph	Globular		
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F		
114 NGC 6366	Oph	Globular	F,L,VLBM	
Jul 23 2016 12"	8mm Et	VF,L,R=P. DID NOT RESOLVE.		
Jul 21 2007 1.9"	12x50	PF,PS,AV,R=F		
Aug 16 2006 1.9"	12x50	PF,PS,R=F		
Jul 15 2006 8"	19mmW	EF,PS,AV,R=F		
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM		
115 TER 2	Sco	Globular		Terzan 2
Oct 29 2006 8"	19mmW	PF,PS,LOOSE,R=F		
117 HP 1	Oph	Globular		
Jul 23 2016 12"	8mm Et	VF,VS,R=P.		
Jul 13 2007 8"	7.5mmW	VF,VS,R,PATCHY,R=F		
120 NGC 6380	Sco	Globular	EF,PS,LE,*9ATT	
Aug 20 2006 8"	7.5mmW	VF,VS,R=F		
124 NGC 6401	Oph	H44-1	Globular	PB,PL,R,*12F INV
Jul 15 2006 8"	19mmW	EF,CS,R=F,VERY DIM SMUDGE		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
125 NGC 6402	Oph M14	Globular	GCL,B,VL,R,ERI,VGMBM	M 14
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"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Mar 20 2009 16"	26mm	MESSIER MARATHON - 2009		
Aug 16 2006 1.9"	12x50	PF,PS,RF,BRIGHTER THAN 6366		
Mar 27 2006 8"	19mmW	F,L,R=F,TIGHT SMUDGE		
Jun 14 2004 8"	25mmPL	SPOTTY CLOUDS - MEGASTAR CONTROL		
127 PAL 6	Oph	Globular		Palomar 6
Jul 13 2007 8"	7.5mmW	VF,VS,R,PATCHY,AV,R=F		
128 NGC 6426	Oph	H587-2	Globular	VF,CL,E,VLBM
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
Jul 09 2005 8"	11mmT6	VF,VS,R=F		

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131 NGC 6440	Sgr	H150-1 Globular PB,PL,R,BM	
Jul 08 2018 12"	17mmT4	CAN'T RESOLVE STARTS. SAME FOV AS NGC-6445	
Jul 13 2007 8"	11mmT6	PF,CS,ALMOST RESOLVE STARS,R=G	
Jul 15 2006 8"	19mmW	CF,CS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
132 NGC 6441	Sco	Globular GCL,VB,PL,R,VGMBM,	
Jul 15 2006 8"	19mmW	PB,CS,R=G,TIGHT GROUP, UNRESOLVABLE	
Jun 23 2004 8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
134 NGC 6453	Sco	Globular CL,IR,PMBM,R	
Jul 03 2005 8"	11mmT6	VF,VS,R,R=F	
137 TER 9	Sgr	Globular	Terzan 9
Aug 06 2010 28"	26mm	PF,PS,SMUDGE, NO STARS RESOLVED	
138 NGC 6517	Oph	H199-2 Globular PB,PL,R,RR	
Jul 09 2005 8"	11mmT6	MF,ML,R=F	
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F	
139 ESO 456-38	Sgr	Globular	Djorgovski 2
Jul 13 2007 8"	7.5mmW	PB,PS,RESOLVE OUTER STARS,R=G	
Jul 09 2005 8"	11mmT6	VF,VS,R=F	
141 NGC 6522	Sgr	H49-1 Globular GCL,B,PL,R,GVMBM,RRR	
Jul 05 2016 12"	8mm Et	F,S,R=G, SAME FIELD AS NGC-6528	
Jul 15 2006 8"	19mmW	PB,S,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
142 NGC 6535	Ser	Globular PF,VS,VSNEB*P	
Jul 09 2005 8"	11mmT6	MF,ML,R=G	
143 NGC 6539	Ser	Globular NO DESCRIPT	
Jul 09 2005 8"	11mmT6	VF,ML,R=F	
144 NGC 6528	Sgr	H200-2 Globular GCL,PF,CS,R,GBM,RRR	
Jul 05 2016 12"	8mm Et	PF,PS,R=G, SAME FIELD AS NGC-6522	
Jul 15 2006 8"	19mmW	CF,CS,R=G	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
145 NGC 6540	Sgr	H198-2 Globular PF,S,IE,ER OR CL	
Jul 05 2016 12"	8mm Et	F,PS,R=F, ALMOST LOST IN HEAVY STAR FIELD	
Jul 13 2007 8"	7.5mmW	VF,VS,PATCHY,R=F	
Jul 09 2005 8"	11mmT6	R=F. LOOSE GROUP, FEWER STARS	
147 NGC 6544	Sgr	H197-2 Globular CF,PL,IR,R	
Jul 05 2016 12"	8mm Et	PF,S,R=F	
Jul 15 2006 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
Aug 14 2004 8"	11mmT6		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
149 NGC 6553	Sgr	H12-4 Globular GCL,F,L,LE,VGLBM,RR	
Jul 05 2016 12"	8mm Et	PF,S,R=G	
Jul 15 2006 8"	19mmW	PF,PS,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
152 NGC 6558	Sgr	Globular GCL,PB,PL,R,GLBM,RRR	
Jul 05 2016 12"	8mm Et	PF,PS,R=F,CAN' RESOLVE STARS	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
153 IC 1276	Ser	Globular	
Jul 09 2005 8"	11mmT6	VF,ML,R=F	

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155 NGC 6569	Sgr	H201-2	Globular	GCL,CB,L,R,RRR,*15..	
Jul 05 2016	12"	8mm Et		F,S,R=F,CAN'T RESOLVE STARS	
Jul 15 2006	8"	19mmW		F,CS,R=F	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
157 NGC 6624	Sgr	H50-1	Globular	GCL,VB,PL,R,RRR,ST16	
Jul 05 2016	12"	8mm Et		F,PS,R=G,VERY NICE.	
Jul 16 2006	8"	19mmW		PF,PS,R=F	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
158 NGC 6626	Sgr M28		Globular	GCL,VB,L,R,GECEM,RRR	M 28
Jul 05 2016	12"	8mm Et		F,S,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	
Aug 16 2006	1.9"	12x50		B,S,R=F	
Mar 27 2006	8"	19mmW		F,FS,R,R=G, TIGHT GROUP	
Jun 14 2004	8"	25mmPL		SPOTTY CLOUDS - MEGASTAR CONTROL	
159 NGC 6637	Sgr M69		Globular	GCL,B,L,R,RRR,*14.16	M 69
Jul 05 2016	12"	8mm Et		EXCELLENT	
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	
Aug 13 2007	31"	31mmT5		PB,PS,MORE STARS, CONDENSED,R=E	
Aug 20 2006	1.9"	12x50		F,S,R=F	
Mar 27 2006	8"	19mmW		F,S,R=F,TIGHT GROUP	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
160 NGC 6638	Sgr	H51-1	Globular	GCL,B,S,R,RR	
Jul 05 2016	12"	8mm Et		F,PS,R=F	
Jul 16 2006	8"	19mmW		CF,PS,R=F	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
161 NGC 6642	Sgr	H205-2	Globular	GCL,PB,PL,IR,GPMBM	
Jul 05 2016	12"	8mm Et		PF,PS,R=F	
Jul 16 2006	8"	19mmW		F,CS,R=F	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
162 NGC 6652	Sgr		Globular	B,S,LE,RRR,ST15	
Jul 05 2016	12"	8mm Et		NOTT BAD FOR NON-MESSIER GLOBULAR	
Jul 16 2006	8"	19mmW		CF,CS,R=F	
Jun 19 2004	8"	25mmPL		GOOD NIGHT - MEGASTAR	
163 NGC 6656	Sgr M22		Globular	GCL,VB,VL,R,VRI,VMC	M 22
Jul 05 2016	12"	8mm Et		F,L,R=E!	
Jul 01 2016	12"	8mm Et		PB,PL,R=E!!	
Mar 16 2012	18"	17mmAT		2012 M.M.	
Jul 04 2011	12"	11mmT6		FINE OBJECT	
Mar 01 2011	12"	17mmAT		M.M. 2011 - MANUAL SETTING CIRCLES	
Mar 20 2009	16"	26mm		MESSIER MARATHON - 2009	
Aug 12 2006	1.9"	12x50		PB,PL,R,R=F	
Mar 27 2006	8"	19mmW		B,PL,R=G, RESOLVE OUTER STARS	
Jun 14 2004	8"	25mmPL		SPOTTY CLOUDS - MEGASTAR CONTROL	

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164 PAL 8	Sgr	Globular	Palomar 8
Jul 09 2005 8"	11mmT6	VF,ML,R,R=F	
165 NGC 6681	Sgr M70	Globular GCL,B,PL,R,GBM,	M 70
Jul 05 2016 12"	8mm Et	VERY GOOD	
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	
Aug 20 2006 1.9"	12x50	PF,S,R=F	
Mar 27 2006 8"	19mmW	PF,PS,R=F,TIGHT GROUP	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
166 NGC 6712	Sct H47-1	Globular GCL,PB,VL,IRR,RRR	
Aug 13 2007 31"	31mmT5	PB,PS,R=G, RESOLVE OUTER STARS	
Jul 21 2007 1.9"	12x50	F,PS,R=F	
Jul 15 2006 8"	19mmW	PB,PS,R=G	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
167 NGC 6715	Sgr M54	Globular GCL,VB,L,R,G,SMBM,	M 54
Jul 05 2016 12"	8mm Et	SMALL AND TIGHT,R=G	
Mar 16 2012 18"	17mmAT	2012 M.M.	
Aug 16 2006 1.9"	12x50	PF,PS,R=F	
Mar 27 2006 8"	19mmW	PF,PS,R=F,TIGHT GROUP	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
168 NGC 6717	Sgr H143-3	Globular F,S,RR,CL+NEB	
Jun 19 2004 8"	7.5mmW	GOOD NIGHT - MEGASTAR	
169 NGC 6723	Sgr	Globular GCL,VL,VLE,VGBM,RRR	
Jul 16 2006 8"	19mmW	CF,PS,R=F	
Jul 08 2004 8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
170 NGC 6749	Aql	Globular CL,L,LC,ST L\$S	
Jul 25 2017 12"	11mmT6	PF,PS,R=F. COULD NOT RESOLVE ANY STARS.	
Jul 03 2005 8"	11mmT6	VF,VS,AV,R=F	
172 NGC 6760	Aql	Globular 2 19 08.6+0057	
Jul 25 2017 12"	11mmT6	VF,VS,R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
173 NGC 6779	Lyr M56	Globular GCL,B,L,IR,GVMCM,RRR	M 56
Jul 19 2017 12"	11mmT6	F,S,R=G	
Jun 17 2016 12"	8mm Ds	VERY NICE	
Oct 24 2012 8"	11mmT6	STILL NICE. LIKE THOSE GLOBS.	
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	
Jun 30 2008 16"	17mmT4	PB,PL,R=G	
Oct 08 2006 1.9"	12x50	F,S,R=F	
Mar 27 2006 8"	19mmW	F,PS,R,R=F,LOOSELY PACKED	
Dec 26 2003 8"	25mmPL	Q/M COLD	
175 PAL 10	Sge	Globular	Palomar 10
May 21 2009 16"	11mmT6	VF,PS,AV,R=F UNRESOLVED.	
177 NGC 6809	Sgr M55	Globular GCL,PB,L,R,VRI,VGBM	M 55

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177 NGC 6809	Sgr M55	Globular	GCL,PB,L,R,VRI,VGBM	M 55
Mar 16 2012 18"	17mmAT	2012 M.M.		
Aug 16 2006 1.9"	12x50	PF,L,R=F		
Mar 27 2006 8"	19mmW	VF,L,R=F		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
178 TER 8	Sgr	Globular		Terzan 8
Jul 31 2005 8"	11mmT6	VF,VS,R,LOWSB,R=F		
179 PAL 11	Aql	Globular		Palomar 11
Jul 31 2005 8"	11mmT6	DIFF, VF,ML,R,LOWSB,R=F		
180 NGC 6838	Sge M71	Globular	CL,VL,VRI,PMC,*11.16	M 71
Jul 08 2018 12"	17mmT4	B,S,R=G		
Jul 19 2017 12"	11mmT6	F,S,R=G. LOOKED BETTER THAN M56		
Sep 02 2016 12"	8mm Et	NOT BAD. HAVEN'T LOOKED AT THIS ONE IN A WHILE.		
Oct 21 2012 8"	11mmT6	F,S,R=G, ANOTHER SURPRISE UNDER THE STREETLIGHTS		
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		
Sep 01 2008 31"	17mmT4	PB,PS,USB,R=G, NICE GLOBULA		
Aug 20 2006 1.9"	12x50	F,L,R=F		
Mar 27 2006 8"	19mmW	DIFF,F,L,R=F, LOOSELY PACKED		
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
181 NGC 6864	Sgr M75	Globular	GCL,B,PL,R,VMBMBN,RR	M 75
Mar 16 2012 18"	17mmAT	2012 M.M.		
Mar 08 2010 12"	11mmT6	M.M. 2010 MANUAL SETTING CIRCLES		
Aug 16 2006 1.9"	12x50	PF,S,R=F		
Jul 16 2006 8"	19mmW	PF,PS,R=F		
Jul 09 2005 8"	11mmT6	PB,PL,R=G,TIGHT GROUP		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
182 NGC 6934	Del H103-1	Globular	GCL,B,L,R,RRR,*16...	
Oct 25 2009 12"	11mmT6	PB,PS,R=G. RESOLVE OUTER STARTS ONLY		
Aug 31 2008 31"	17mmT4	PB,PS,R=G		
Oct 08 2006 1.9"	12x50	F,S,R=F, SMALL SMUDGE.		
Aug 20 2006 1.9"	12x50	B,L,R=G		
Jul 23 2006 8"	7.5mmW	PB,CS,R,R=G		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
183 NGC 6981	Aqr M72	Globular	GCL,PB,PL,R,GMCM,RRR	M 72
Sep 13 2009 12"	32mmUW	2ND OBJECT.		
Oct 08 2006 1.9"	12x50	VF,S,R=F		
Oct 06 2004 8"	11mmT6	PB,L,R=G,TIGHT GROUP		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
184 NGC 7006	Del H52-1	Globular	B,PL,R,GBM	very distant globular
Oct 21 2006 31"	20mmUW	FB,L,STELLAR, RESOLVE OUTERMOST STARS.		
Jul 23 2006 8"	7.5mmW	VF,CS,R,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
185 NGC 7078	Peg M15	Globular	GCL,VB,VL,IR,VSMBM	M 15
Jul 08 2018 12"	17mmT4	PB,L,R=E		

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185 NGC 7078	Peg M15	Globular	GCL,VB,VL,IR,VSMBM	M 15
Sep 02 2016 12"	17mmT4	NICE. 1ST OBJECT FOR THE NIGHT		
Aug 07 2016 12"	8mm Et	FAINT,SMALL,R=E. FIRST OBJECT IN PEGASUS THIS YEAR.		
Aug 21 2015 12"	17mmT4			
Aug 15 2015 12"	11mmT6			
Jul 15 2015 12"	17mmT4			
Sep 19 2014 12"	17mmAT	5-DAYS AFTER NEW - SIGHTSEEING, HOME - 8/15/14		
Jul 13 2013 18"	7mm TV	MORE EYE CANDY		
Mar 16 2012 18"	17mmAT	2012 M.M.		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Mar 08 2010 12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES		
Sep 13 2009 12"	32mmUW	5TH OBJECT		
Oct 29 2008 16"	32mmUW	NICE, BRIGHT, CAN'T RESOLVE INDIVIDUAL STARS		
Oct 21 2006 31"	20mmUW	VB,VL,STELLAR,RESOLVABLE, F.L. 2, 20MM		
Aug 20 2006 1.9"	12x50	B,S,R=F		
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP		
Oct 31 2004 1.9"	12x50	R=G		
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD		
Dec 28 2003 8"	25mmPL	Q/M COLD		
186 NGC 7089	Aqr M2	Globular	GCL,B,VL,GPMBM,RRR	M 2
Oct 05 2016 12"	11mmT6	B,L,R=G		
Sep 02 2016 12"	8mm Et	VERY NICE. SQM-19.67		
Aug 15 2015 12"	8mm Ds	DITTO		
Aug 31 2010 12"	17mmAT	NIGHT ENDING EYE CANDY		
Oct 29 2008 16"	32mmUW	SAME,DIMMER, CAN'T RESOLVE INDIVIDUAL STARS		
Oct 21 2006 31"	20mmUW	VB,FL,STELLAR, RESOLVABLE		
Mar 27 2006 8"	19mmW	B,S,R=G, TIGHT GROUP		
Oct 31 2004 1.9"	12x50	R=F		
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR		
187 NGC 7099	Cap M30	Globular	GCL,B,L,LE,GPMBM	M 30
Aug 16 2006 1.9"	12x50	PF,S,R=F		
Aug 12 2005 8"	7.5mmW	B,L,R=G, RESOLVE OUTER STARS		
Jun 19 2004 8"	25mmPL	*** LAST MESSIER OBJECT ***		
189 PAL 13	Peg	Globular		Palomar 13
Nov 02 2005 31"	19mmW	PF,PS,PATCHY,R=F, CAN'T RESOLVE STARS		
190 NGC 7492	Aqr	H558-3	Globular	EF,L,BET2D*
Oct 05 2016 12"	11mmT6	F,PS,R=G		
Sep 05 2007 8"	11mmT6	VF,VS,AV,R=F		