

Astronomical League

Globular Cluster Observing Club

33	NGC 288	Sci	H20-6	Globular	GCL,B,L,LE,*12...16	
	Sep 23 1981 12.5"	16mm			DIF,MB,EL,R,SEVERAL HUNDRED *S SAME MAG,V LITTLE CLUSTERING TOWARDS MID	
	Sep 09 1980 12.5"	16mm			RESOLVED TO CORE,EXCELLENT!!	
44	PAL 1	Cep		Globular		Palomar 1
	Sep 18 2004 31"	17mmT4			VDIF,EF,MS,PATHC,UB,AV,STAR HOPPED,LOC GOOD,PATCH AREA WITH AV,R=P	
47	PAL 2	Aur		Globular		Palomar 2
	Dec 04 2004 31"	17mmT4			VF,VL,R,PATCH,R=P	
48	NGC 1851	Col		Globular	GCL,VB,VL,R,VSVVBM	
	Oct 12 2012 36"	17mmT4			EB,EL,LARGE BNUC,HISB,VERY SIM TO M15,RESOLVED TO CORE,8.8 DEG ABOVE HORIZON,HUNDREDS OF F* AROUND CORE,HISB MIDDLE,R=GE	
49	NGC 1904	Lep M79		Globular	GCL,PL,ERI,EC,RRR	M 79
	Mar 19 2004 12.5"	12mmT4			MESSIER MARATHON 2004	
	Mar 02 1984 10"	20mm			SAME	
	Oct 24 1981 12.5"	24mm			VB,MLCRESOLVED,DOZENS OF *S AROUND NUC.SPLASHING EFFECT	
	Mar 27 1981 12.5"	24mm			MESSIER MARATHON 1981	
	Oct 31 1980 12.5"	24mm				
	Sep 18 1980 12.5"	24mm				
	Sep 09 1980 12.5"	24mm				
50	NGC 2298	Pup		Globular	GCL,B,PL,IR,GBM,RR	
	Dec 03 1980 12.5"	24mm				
51	NGC 2419	Lyn	H218-1	Globular	PB,PL,LE90,VGBM,*4F	
	Oct 16 1982 12.5"	16mm			MF,PL,R,UB,SBM,2 B*S POINT TO IT,COUPLE OF F*S SCATTERED AROUND OBJECT	
56	PAL 3	Sex		Globular		Palomar 3
	Apr 11 2015 36"	17mmT4			EF,VS,PATCH,~TYPE X,AV ONLY SUSP,LOC GOOD,JUST A HINT OF EXTREMELY FAINT SMUG,R=P	
58	PAL 4	UMa		Globular		Palomar 4
	Apr 11 2015 36"	17mmT4			EF,MS,PATCH,~TYPE X,VERY F PATCH,CANNOT MAKE OUT INDIVIDUAL *S,R=P	
59	NGC 4147	Com	H19-1	Globular	GCL,VB,PL,R,GBM,RRR	
	Mar 08 2010 31"	17mmT4			PB,ML,TYPE APPROX VI,RESOLVED TO CORE,SBNUC,MOD HISB MIDDLE,F HALO OF *S RESOLVED,R=G	
	Feb 12 1983 12.5"	12mm			MB,PL,RESOLVED TO CORE,OUTER *S CLOSELY GROUPED,BM	
	Jun 10 1980 6"	24mm			VF,LOOKS LIKE FAINT GAL	
62	NGC 4590	Hya M68		Globular	GCL,L,ERI,VC,IR,ST12	M 68
	Apr 11 2015 36"	17mmT4			VB,VL,~TYPE VIII,RESOLVED TO CORE,MOD HISB CORE,*S VAR MAG SCATTERED,DENSITY OF *S DEC FROM NUC,R=E	
	Mar 19 2004 12.5"	12mmT4			MESSIER MARATHON 2004	
	Mar 27 1981 12.5"	24mm			MESSIER MARATHON 1981	
	Dec 03 1980 12.5"	24mm				
64	NGC 5024	Com M53		Globular	GCL,B,VC,IR,VVMBM,	M 53
	Apr 11 2015 36"	17mmT4			VB,VL,RESOLVED TO CORE,GROUP OF B*S OFF ONE SIDE OF NUC,MOD HISB SECTIONS IN NUC,*S FALL OFF SHARPLY MOVING AWAY FROM NUC,~TYPE III,R=EE	
	Mar 19 2004 12.5"	12mmT4			MESSIER MARATHON 2004	
	Mar 02 1984 10"	20mm			VB,VL,BNUC,R,OUTTER *S RESOLVED,LARGE BRT NUC	
	Mar 27 1981 12.5"	24mm			MESSIER MARATHON 1981	
65	NGC 5053	Com	H7-6	Globular	CL,VF,PL,IR,VGBM,*15	
	Apr 11 2015 36"	17mmT4			MB,PL,DOZ OR SO B*S LOOSLY SCATTERED,LITTLE CLUSTERING IN NUC AREA DET,OC LIKE,~TYPE XII,R=G	
	Mar 22 2004 12.5"	12mmT4			VDIF,EF,VL,OVAl,FAINT PATCHY AREAS DETECTED,MORE WITH AV,R=P	
	Mar 27 1981 12.5"	24mm				
67	NGC 5272	CVn M3		Globular	GCL,EB,VL,VSMBM,*11.	M 3

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67	NGC 5272	CVn M3	Globular	GCL,EB,VL,VSBM,*11. M 3
Apr 11 2015	36"	17mmT4	EB,EL,BRTHISB CORE RESOLVED,3-D LIKE,AMAZING,HUNDREDS OF *S RESOLVED,~TYPE VI,R=EE	
May 14 2010	31"	17mmT4	EB,EL,HISB GLOW IN NUC,RESOLVED,TYPE III,LARGE TIGHT CORE,HUNDREDS F*S SCATTERED AROUND CORE,R=E	
Feb 04 2005	31"	17mmT4	EB,EL,RESOLVED TO CORE,OUTSTANDING,BEST TO DATE,PAIRS=MAC,R=E	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Feb 15 2004	31"	17mmT4	EB,EL,M3,THOUSANDS OF *S,RESOLVED TO CORE,BEST TODATE,WELL PLACED,PAIRS=MAC,R=E	
Jan 28 1982	12.5"	16mm	VB,VL,RESOLVED TO THE CORE,HUNDREDS OF *S,LOOKS SOMEWHAT 3-D	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jul 14 1980	12.5"	24mm		
Jul 11 1980	12.5"	24mm		
Jul 05 1980	12.5"	24mm		
Apr 18 1980	6"	24mm		
Apr 16 1980	6"	24mm		
70	NGC 5466	Boo	H9-6 Globular	CL,L,VRI,VMC,ST11...
Apr 11 2015	36"	17mmT4	MB,ML,BRT 'S LOOSLY SCATTERED,FT SOFT BACKGROUND AROUND NUC AREA,~TYPE XI,R=G	
May 06 1981	12.5"	16mm	VB,EL	
Jul 14 1980	12.5"	24mm		
71	NGC 5634	Vir	H70-1 Globular	GCL,VB,CL,R,GBM,RRR
Apr 11 2015	36"	17mmT4	PB,MS,SPEC FOV,BRT FOREGROUND * CLOSE BY,SEVERAL B*S AROUND NUC,MOD HISB MID,RESOLVED CORE,LITTLE OR NO HALO,~TYPE II,R=E	
Jun 11 1983	12.5"	20mm	VB,PL,BNUC,TRI OF B*S AROUND OBJECT,HISB,BM	
72	NGC 5694	Hya	H196-2 Globular	CB,CS,R,PSBM,R,*9SP
Apr 11 2015	36"	17mmT4	PB,MS,SM BRT NUC WITH HISB,HALO OF RESOLVED *S CLOSE TO NUC,19 DEG ALT,~TYPE III,R=G	
Jun 11 1983	12.5"	20mm	MF,PS,BNUC,R,2*S SE,1*SW 1 GAL DIA,1F* SW 2 GAL DIA,MOD HISB	
76	NGC 5897	Lib	H19-6 Globular	GCL,PF,L,VIR,VGBM,
May 02 1981	12.5"	16mm	PB,EL	
77	NGC 5904	Ser M5	Globular	GCL,VB,L,ECM,*11..15 M 5
Mar 16 2010	31"	17mmT4	EB,EL,FILLS FOV,RESOLVED TO CORE,HUNDREDS OF *S,NICE TIGHT NUC,AV RESOLVES MORE *S,TYPE V,E=E	
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
May 31 1981	12.5"	16mm	EB,EL	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jul 11 1980	12.5"	24mm		
Jun 18 1980	12.5"	24mm		
Jun 10 1980	6"	24mm		
84	NGC 6093	Sco M80	Globular	GCL,VB,L,VMBM(VAR*) M 80
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Sep 10 1980	12.5"	24mm		
Jul 17 1980	12.5"	24mm		
Jun 18 1980	12.5"	24mm		
85	NGC 6121	Sco M4	Globular	CL,8OR1OB*LINE,RRR M 4
May 09 2010	31"	17mmT4	VB,EL,TYPE VIII,RESOLVED TO CORE,WIDELY SCATTERED OUTER HALO,VARIOUS MAG'S,CORE VAR MAG'S,R=E	
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	

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85	NGC 6121	Sco M4	Globular	CL,8OR1OB*LINE,RRR	M 4
	Sep 10 1980	12.5" 24mm			
	Sep 03 1980	12.5" 24mm			
	Jul 17 1980	12.5" 24mm			
	Jun 20 1980	12.5" 24mm			
	Jun 18 1980	12.5" 16mm		LOOKS IMPRESSIVE	
	May 07 1980	5" 9mm			
	Apr 16 1980	6" 24mm			
87	NGC 6144	Sco	H10-6 Globular	CL,CL,MC,GBM,RRR	
	May 28 2008	31" 17mmT4		MB,PL,RESOLVED,SEVERAL B*S WITH FAINTER BACKGROUND,CORE NOT SO COMPACT,R=G	
	Aug 13 1982	12.5" 24mm		DIF,MF,PS,CLOSE TO ANTARIES,F*W,F*N EDGE,OVAL,NO CENTRAL GATHERING DET	
90	NGC 6171	Oph M10	H40-6 Globular	GCL,L,VRI,VMC,R,RRR	M 107
	May 09 2010	31" 17mmT4		VB,VL,TYPE VI,RESOLVED TO CORE,LARGE OUTER HALO SCATTERED *S VARIOUS MAG,R=E	
	Mar 22 2004	12.5" 12mmT4		MESSIER MARATHON 2004	
	Jul 21 1984	12.5" 16mm		SAME	
	Aug 13 1982	12.5" 16mm		MB,PL,SBM,R,3B*S AROUND OBJECT,SOME F* SCATTERED	
	Mar 27 1981	12.5" 24mm		MESSIER MARATHON 1981	
	Sep 10 1980	12.5" 24mm			
	Jul 11 1980	12.5" 24mm			
	Jun 18 1980	12.5" 24mm			
	Jun 10 1980	6" 24mm			
	May 07 1980	5" 9mm			
	Apr 16 1980	6" 24mm			
92	NGC 6205	Her M13	Globular	GCL,EB,VRI,VGECM,*11	M 13 Great Cluster in Hercules
	Mar 19 2004	12.5" 12mmT4		MESSIER MARATHON 2004	
	Feb 25 1982	12.5" 16mm		VB,VL,BNUC,RESOLVED TO CORE,BEAUTIFUL!!!,HUNDREDS OF *S	
	Sep 20 1981	12.5" 24mm			
	Mar 27 1981	12.5" 24mm		MESSIER MARATHON 1981	
	Sep 10 1980	12.5" 24mm			
	Sep 03 1980	12.5" 24mm			
	Jul 14 1980	12.5" 24mm			
	Jul 12 1980	12.5" 24mm			
	Jul 11 1980	12.5" 24mm			
	Jul 05 1980	12.5" 24mm			
	Jun 20 1980	12.5" 24mm			
	Jun 18 1980	12.5" 9mm		LOOKS GREAT!!!	
	Jun 17 1980	12.5" 24mm		OK,RESOLVED TO CORE IN 9MM,24MM AND BARLOW BEAUTIFUL!!!	
	Jun 10 1980	6" 24mm			
	Apr 18 1980	6" 24mm			
	Apr 16 1980	6" 24mm			
93	NGC 6229	Her	H50-4 Globular	GCL,VB,L,R,DISC,R	
	Feb 25 1982	12.5" 16mm		MB,MS,BNUC,MOD HISB,ALMOST RESOLVED,R	
	Jul 14 1980	12.5" 24mm			
	Jul 12 1980	12.5" 24mm			
	Jul 11 1980	12.5" 24mm			
	Jun 17 1980	12.5" 24mm			

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93	NGC 6229	Her	H50-4	Globular	GCL,VB,L,R,DISC,R	
Apr 18 1980	6"	24mm	LOOKS LIKE 3RD * IN A TRI			
94	NGC 6218	Oph M12		Globular	GCL,VB,VL,IR,GMBM	M 12
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004			
Jul 21 1984	12.5"	16mm	EB,VL,BNUC,B* OUTSIDE CENTER,MANY B*S RESOLVED,MOD HISB,HUNDREDS OF FIELD *S			
Jun 04 1981	12.5"	24mm	EB,EL,BNUC,6 MAG *S			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981			
Sep 10 1980	12.5"	24mm				
Jul 11 1980	12.5"	24mm				
Jun 18 1980	12.5"	24mm				
Jun 10 1980	6"	24mm				
May 07 1980	5"	9mm				
Apr 16 1980	6"	24mm				
95	NGC 6235	Oph	H584-2	Globular	PB,CL,IR,RRR,*14..16	
Jul 21 1984	12.5"	16mm	VDIF,VF,MS,FAINT PATCH,FAINT TRI OF *S AROUND OBJECT			
Jun 04 1981	12.5"	24mm	DIF,MB,ML,10 MAG *S			
Jun 18 1980	12.5"	24mm	VF,FAINT TRI OF *S SURROUND OBJECT			
96	NGC 6254	Oph M10		Globular	GCL,B,VL,R,GVMBM,RRR	M 10
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004			
Jul 21 1984	12.5"	12mm	VB,VL,BNUC,BRT THAN M12,CORE RESOLVING WITH FAINT BACKGROUND GLOW,HISB			
Jun 04 1981	12.5"	24mm	EB,PL,BNUC,6 MAG *S			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981			
Sep 10 1980	12.5"	24mm				
Jul 11 1980	12.5"	24mm				
Jun 18 1980	12.5"	24mm				
Jun 10 1980	6"	24mm				
May 07 1980	5"	9mm				
Apr 16 1980	6"	24mm				
99	NGC 6266	Oph M62		Globular	GCL,VB,L,GMBM,RRR,	M 62
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004			
Jun 04 1981	12.5"	24mm	MB,ML,BNUC			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981			
Jun 18 1980	12.5"	24mm				
Jun 10 1980	6"	24mm				
100	NGC 6273	Oph M19		Globular	GCL,VB,L,R,VCM,RRR	M 19
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004			
Jul 21 1984	12.5"	16mm	MB,PL,BNUC,BRT * JUST OUTSIDE CORE,NOT MANY *S RESOLVED,HISB			
Jun 04 1981	12.5"	24mm	MB,ML,BNUC			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981			
Jun 18 1980	12.5"	24mm				
101	NGC 6284	Oph	H11-6	Globular	GCL,B,L,R,CM,ST16...	
Jul 21 1984	12.5"	16mm	PF,PS,FNUC,NOT RESOLVED,SBM,PATCHY			
Jun 04 1981	12.5"	24mm	MB,PL,BNUC			
Jun 18 1980	12.5"	24mm	BETTER THAN 6287,BNUC			
Jun 18 1980	12.5"	24mm				
102	NGC 6287	Oph	H195-2	Globular	GCL,CB,L,R,GPMCM,RRR	
Jul 21 1984	12.5"	16mm	VDIF,VF,MS,OVAL,UB,NO *S RESOLVED			

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102 NGC 6287	Oph	H195-2	Globular	GCL,CB,L,R,GPMCM,RRR	
Jun 04 1981	12.5" 24mm			DIF,PF,MS	
Jun 18 1980	12.5" 24mm			EF,NND,LOC IN BARREN * FIELD	
103 NGC 6293	Oph	H12-6	Globular	GCL,VB,L,R,PSBM,ST16	
Jul 21 1984	12.5" 12mm			MB,PL,BNUC,R,SBM,NO *S RESOLVED	
Jun 04 1981	12.5" 24mm			MB,ML,BNUC	
Jun 18 1980	12.5" 24mm				
104 NGC 6304	Oph	H147-1	Globular	GCL,B,CL,R,LBM,RRR	
Jun 04 1981	12.5" 24mm			DIF,MF,PS	
Jun 18 1980	12.5" 24mm				
105 NGC 6316	Oph	H45-1	Globular	GCL,CB,PS,R,GVMBM	
Jun 04 1981	12.5" 24mm			DIF,MF,MS	
106 NGC 6341	Her M92		Globular	GCL,VB,VL,ECM,ST S	M 92
Mar 19 2004	12.5" 12mmT4			MESSIER MARATHON 2004	
Jun 25 2003	12.5" 9mmT6			EB,EL,RESOLVED TO CORE,BEAUTIFUL,R=E	
Feb 25 1982	12.5" 16mm			RESOLVED TO CORE,VB,VL,BNUC,SMALLER THAN M13	
Mar 27 1981	12.5" 24mm			MESSIER MARATHON 1981	
Sep 03 1980	12.5" 24mm				
Jul 14 1980	12.5" 24mm				
Jul 12 1980	12.5" 24mm				
Jul 11 1980	12.5" 24mm				
Jul 05 1980	12.5" 24mm				
Jun 17 1980	12.5" 24mm				
Jun 10 1980	6" 24mm				
Apr 18 1980	6" 24mm				
Apr 16 1980	6" 24mm				
107 NGC 6325	Oph		Globular	PF,L,R,RR	
Jun 04 1981	12.5" 24mm			DIF,EF,ML,LOCATED NORTH OF DOUBLE *	
108 NGC 6333	Oph M9		Globular	GCL,B,L,R,ECM,RRR,	M 9
Mar 22 2004	12.5" 12mmT4			MESSIER MARATHON 2004	
Jul 21 1984	12.5" 12mm			MB,ML,BNUC,OUTTER *S RESOLVED,HISB,*S GLOWING BEHIND	
Jun 04 1981	12.5" 24mm			MB,ML,BNUC	
Mar 27 1981	12.5" 24mm			MESSIER MARATHON 1981	
Jul 11 1980	12.5" 24mm				
Jun 18 1980	12.5" 24mm				
Jun 10 1980	6" 24mm				
Apr 16 1980	6" 24mm				
109 NGC 6342	Oph	H149-1	Globular	CB,PS,LE,ER	
Jul 21 1984	12.5" 12mm			VF,VS,VF* ON S EDGE,PATCH-UB,NO I'S RESOLVED	
Jun 04 1981	12.5" 24mm			DIF,PF,PS	
Jun 18 1980	12.5" 24mm			VS,LOOKS LIKE NEB	
Jun 10 1980	6" 24mm			VF,HARD TO SEE	
110 NGC 6355	Oph	H46-1	Globular	CF,L,R,GBM,RRR	
Jun 04 1981	12.5" 24mm			DIF,PF,PS	
111 NGC 6356	Oph	H48-1	Globular	GCL,VB,CL,VGVMBM,RR	
Jul 21 1984	12.5" 12mm			MB,ML,BNUC,R,HISB MIDDLE,*S NOT RESOLVED	
Jun 04 1981	12.5" 24mm			MB,ML,BNUC	
Jun 18 1980	12.5" 24mm				

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111 NGC 6356	Oph	H48-1	Globular	GCL,VB,CL,VGMBM,RR
Jun 10 1980 6"	24mm			R
113 IC 1257	Oph		Globular	
May 16 2004 31"	17mmT4			DIF,VF,ML,OVAL,UB,LOC IN BARRON * FIELD,R=P
114 NGC 6366	Oph		Globular	F,L,VLBM
Jun 04 1981 12.5"	24mm			DIF,VF,EL,EAST OF B*
124 NGC 6401	Oph	H44-1	Globular	PB,PL,R,*12F INV
Jun 04 1981 12.5"	24mm			DIF
125 NGC 6402	Oph M14		Globular	GCL,B,VL,R,ERI,VGMBM M 14
Apr 14 2004 31"	17mmT4			EB,EL,VERY BNUC,M14,100'S OF *S RESOLVED TO CORE,BEST TO DATE,LARGE CORE AREA
Mar 22 2004 12.5"	12mmT4			MESSIER MARATHON 2004
Jul 21 1984 12.5"	12mm			MB,PL,BNUC,OUTTER *S RESOLVED,R,HISB MIDDLE
Jun 04 1981 12.5"	24mm			VB,VL
Mar 27 1981 12.5"	24mm			MESSIER MARATHON 1981
Jun 18 1980 12.5"	24mm			
Jun 10 1980 6"	24mm			
128 NGC 6426	Oph	H587-2	Globular	VF,CL,E,VLBM
Jun 04 1981 12.5"	24mm			DIF,MF,PS
131 NGC 6440	Sgr	H150-1	Globular	PB,PL,R,BM
Sep 20 1984 12.5"	12mm			DIF,MF,PS,BETWEEN A LINE OF *S,6440 TO N 1/2 DEGREE,R,BM
Aug 13 1982 12.5"	16mm			MF,VS,F*N,R,SBM,VF*W,PAIR/6445
138 NGC 6517	Oph	H199-2	Globular	PB,PL,R,RR
Jun 04 1981 12.5"	24mm			DIF,PF,PS
141 NGC 6522	Sgr	H49-1	Globular	GCL,B,PL,R,GVMBM,RRR
Sep 20 1984 12.5"	12mm			PF,PS,2F*S BOTH SIDES,EF* ON W EDGE,SBM,PATCHY-R,PAIR/6528 TO W
Aug 13 1982 12.5"	16mm			MF,VS,F*NE EDGE,R,MBM,OUTER *S JUST RESOLVABLE,PAIR/6538
142 NGC 6535	Ser		Globular	PF,VS,VSNEB*P
May 31 1981 12.5"	24mm			PF,ML
143 NGC 6539	Ser		Globular	NO DESCRIPT
May 31 1981 12.5"	24mm			PB,PL
144 NGC 6528	Sgr	H200-2	Globular	GCL,PF,CS,R,GBM,RRR
Sep 20 1984 12.5"	16mm			DIF,VF,VS,6522 SAME FIELD TO E,IN BARREN * AREA,R,SBM
Aug 13 1982 12.5"	16mm			VDIF,PF,VS,SBM,NO *S RESOLVED,PAIR/6522
145 NGC 6540	Sgr	H198-2	Globular	PF,S,IE,ER OR CL
Sep 20 1984 12.5"	16mm			VDIF,VF,VS,*S APPROX SAME MAG(11.5),SCATTERED,FIND 6520 FIRST
Aug 13 1982 12.5"	16mm			DIF,VF,VS,ELONG PATCH,APPEARS AS A GAL,LOCATE FROM 6520,FEW *S RESOLVED
147 NGC 6544	Sgr	H197-2	Globular	CF,PL,IR,R
Sep 20 1984 12.5"	16mm			VF,MS,F* VERY CLOSE BY,R,BM,SOME *S RESOLVED
Aug 13 1982 12.5"	16mm			MF,MS,FNUC,SMALL NUC,GBM,SOME *S RESOLVED,R
149 NGC 6553	Sgr	H12-4	Globular	GCL,F,L,LE,VGLBM,RR
Sep 21 1984 12.5"	16mm			SAME,DARK PATCH DET ON EDGE
Aug 13 1982 12.5"	16mm			MF,PL,OVAL,PATCHY,F*N EDGE,SBM
152 NGC 6558	Sgr		Globular	GCL,PB,PL,R,GLBM,RRR
Sep 21 1984 12.5"	16mm			DIF,VF,VS,PATCHY-OVAL,2F*S OFF TO ONE SIDE
155 NGC 6569	Sgr	H201-2	Globular	GCL,CB,L,R,RRR,*15..
Sep 21 1984 12.5"	24mm			PF,PS,R,SBM,2F*S TO S IN A LINE POINTING TO A BRT DOUBLE *,F* ON S EDGE
Aug 13 1982 12.5"	16mm			DIF,MF,MS,R,GBM,UB

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157 NGC 6624	Sgr	H50-1	Globular	GCL,VB,PL,R,RRR,ST16
Aug 13 1982 12.5"	16mm	VB,MS,BNUC,R,VMBM		
158 NGC 6626	Sgr M28		Globular	GCL,VB,L,R,GECM,RRR M 28
Sep 11 2012 36"	17mmT4	VB,VL,HISB,RESOLVED TO CORE,HUNDREDS OF *S SIMILAR MAG,WELL PLACED IN FOV,MOD HISB IN MIDDLE,R=E		
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1981 12.5"	24mm			
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
Jun 17 1980 12.5"	24mm			
Jun 10 1980 6"	24mm			
159 NGC 6637	Sgr M69		Globular	GCL,B,L,R,RRR,*14.16 M 69
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1981 12.5"	24mm			
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
160 NGC 6638	Sgr	H51-1	Globular	GCL,B,S,R,RR
Jun 18 1980 12.5"	24mm			
Jun 17 1980 12.5"	24mm			
161 NGC 6642	Sgr	H205-2	Globular	GCL,PB,PL,IR,GPMBM
Aug 13 1982 12.5"	16mm	MF,PS,VMBM,R		
162 NGC 6652	Sgr		Globular	B,S,LE,RRR,ST15
Sep 05 2007 31"	17mmT4	MB,ML,SMALL CENTRAL CORE,OUTER *S RESOLVED,FEW BRTER *S OFF EDGE,R=F		
163 NGC 6656	Sgr M22		Globular	GCL,VB,VL,R,VRI,VMC M 22
Sep 11 2012 36"	17mmT4	EB,VL,RESOVLED TO CORE,HUNDREDS OF *S,CORE HISB OVAL TO ROUND,FILLS 1/2 FOV,AWESOME,,R=E		
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1984 12.5"	16mm	VB,VL,RESOLVED,HUNDREDS OF *S,HISB MIDDLE,BRT *S APPROX SAME MAG		
Sep 20 1981 12.5"	24mm			
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Sep 10 1980 12.5"	24mm			
Jul 17 1980 12.5"	24mm			
Jul 15 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
Jun 17 1980 12.5"	24mm			
Jun 10 1980 6"	24mm			
165 NGC 6681	Sgr M70		Globular	GCL,B,PL,R,GBM, M 70
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1981 12.5"	24mm			
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980 12.5"	24mm			
Jul 15 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
166 NGC 6712	Sct	H47-1	Globular	GCL,PB,VL,IRR,RRR
Sep 05 2007 31"	17mmT4	PB,VL,OVAL,HUNDREDS *S,RESOLVED TO CORE,*S MOSTLY SAME MAG,R=E		
Aug 13 2007 31"	31mmT5	VB,VL,RESOLVED,17MM *S IN CORE DET,R=E		

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166 NGC 6712	Sct	H47-1	Globular	GCL,PB,VL,IRR,RRR	
Aug 13 1982	12.5" 16mm			MB,VL,OVAL,PATCHY,SBM,OUTTER *S STARTING TO RESOLVE	
167 NGC 6715	Sgr M54		Globular	GCL,VB,L,R,G,SMBM,	M 54
Mar 22 2004	12.5" 12mmT4			MESSIER MARATHON 2004	
Sep 20 1984	12.5" 12mm			MB,PS,BNUC,VMBM,OUTTER *S JUST RESOLVED,LARGE NUC REGION	
Sep 20 1981	12.5" 24mm				
Mar 27 1981	12.5" 24mm			MESSIER MARATHON 1981	
Jul 17 1980	12.5" 24mm				
Jun 18 1980	12.5" 24mm				
168 NGC 6717	Sgr	H143-3	Globular	F,S,RR,CL+NEB	
Sep 04 2002	12.5" 9mmT6			PB,ML,B* CLOSE BY,VF* IN EDGE OF GAL,HISB,2 HALVES OR PARTS DETECTED	
169 NGC 6723	Sgr		Globular	GCL,VL,VLE,VGBM,RRR	
Sep 20 1981	12.5" 24mm				
Jun 18 1980	12.5" 24mm				
170 NGC 6749	Aql		Globular	CL,L,LC,ST L\$\$	
Jun 25 2003	12.5" 9mmT6			PB,ML,*S NOT GROUPED WELL,VERY FAINT BACKGROUND GLOW,R=P	
172 NGC 6760	Aql		Globular	2 19 08.6+0057	
Aug 31 1984	12.5" 16mm			SAME,MOD HISB,3F*S ON OUTTER EDGE	
Jul 10 1981	12.5" 12mm			DIF,R,PF,ML,STARS 10-11 MAG,NO DIF HALO	
Jul 15 1980	12.5" 24mm				
Jul 11 1980	12.5" 24mm				
173 NGC 6779	Lyr M56		Globular	GCL,B,L,IR,GVMCM,RRR	M 56
Mar 22 2004	12.5" 12mmT4			MESSIER MARATHON 2004	
Jun 04 1981	12.5" 16mm			MF,ML,*S APPROX SAME MAG	
Mar 27 1981	12.5" 24mm			MESSIER MARATHON 1981	
Sep 07 1980	12.5" 24mm				
Jul 12 1980	12.5" 24mm				
Jul 11 1980	12.5" 24mm				
Jun 20 1980	12.5" 24mm				
Jun 17 1980	12.5" 24mm				
May 07 1980	5" 9mm				
175 PAL 10	Sge		Globular		Palomar 10
Sep 23 2003	31" 17mmT4			EDIF,EF,MS,PATCH,SUSP,CANNOT CONFIRM,LOC GOOD,R=P	
Sep 23 2003	31" 25mm			EDIF,EF,MS,PATCH,HINT OF AREA OF SLIGHT BRIGHTNESS,LOC GOOD,SUSP,R=P	
177 NGC 6809	Sgr M55		Globular	GCL,PB,L,R,VRI,VGBM	M 55
Mar 22 2004	12.5" 12mmT4			MESSIER MARATHON 2004	
Sep 20 1984	12.5" 16mm			PF,VL,MANY *S RESOLVED,MOD HISB,GLOW IN BACKGROUND,LOC IN BARREN * FIELD	
Sep 20 1981	12.5" 24mm				
Mar 27 1981	12.5" 24mm			MESSIER MARATHON 1981	
Jul 17 1980	12.5" 24mm				
Jul 15 1980	12.5" 24mm				
Jun 18 1980	12.5" 24mm				
Jun 17 1980	12.5" 24mm				
180 NGC 6838	Sge M71		Globular	CL,VL,VRI,PMC,*11.16	M 71
Mar 22 2004	12.5" 12mmT4			MESSIER MARATHON 2004	
Sep 23 2003	31" 25mm			EF,EL,RESOLVED,BEAUTIFUL,HUNDREDS OF *S.STRONG BACKGROUND GLOW,R=E	
Aug 20 2003	31" 25mm			EB,EL,HUNDREDS/THOUSANDS OF STARS.RESOLVED TO CORE,FOV GLOWS W/F*S,R=E	
Jul 30 1981	12.5" 24mm			PB,VL,PAIR/H2O	

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180 NGC 6838	Sge M71	Globular	CL,VL,VRI,PMC,*11.16	M 71
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jun 17 1980 12.5"	24mm			
May 07 1980 5"	9mm			
Apr 16 1980 6"	24mm			
181 NGC 6864	Sgr M75	Globular	GCL,B,PL,R,VMBMBN,RR	M 75
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1984 12.5"	12mm	MB,PS,BNUC,R,BM,OUTTER HALO ALMOST RESOLVED		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
182 NGC 6934	Del	H103-1 Globular	GCL,B,L,R,RRR,*16...	
Aug 20 2003 31"	25mm	VB,VL,RESOLVED TO CORE,HUNDRED'S OF *S,MANY *S DETECTED IN CORE,R=E		
Jul 31 2002 12.5"	12mm	SAME		
Jul 08 1983 12.5"	12mm	MB,MS,BNUC,B* TO W,RESOLVED OUTTER *S,GBM		
Jul 30 1981 12.5"	16mm	DNUC,GMBM,SOFT HALO OF *S RESOLVED,R		
Jul 11 1980 12.5"	24mm			
Jun 20 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
Jun 17 1980 12.5"	24mm			
183 NGC 6981	Aqr M72	Globular	GCL,PB,PL,R,GMCM,RRR	M 72
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Aug 31 1984 12.5"	16mm	PB,PL,BNUC,R,HISB MIDDLE,OUTTER *S JUST RESOLVED		
Jul 09 1983 12.5"	12mm	MB,PL,RESOLVED,BM,SCATTERED *S ELONG,2F*S SAME MAG OFF ONE SIDE		
Jul 10 1981 12.5"	24mm	MB,ML		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980 12.5"	24mm			
Jun 18 1980 12.5"	24mm			
184 NGC 7006	Del	H52-1 Globular	B,PL,R,GBM	very distant globular
Jul 31 2002 12.5"	12mm	SAME		
Jul 08 1983 12.5"	12mm	DIF,MF,MS,FNUC,R,SBM,SOFT GLOW		
Jul 30 1981 12.5"	24mm	BNUC,NO *S IN HALO SEEN,R,SMALL VERY DIF		
185 NGC 7078	Peg M15	Globular	GCL,VB,VL,IR,VSMBM	M 15
Jul 05 2008 31"	17mmT4	EB,EL,RESOLVED,THOUS *S,3D EFFECT,CLASS V,*S OUTTER EDGE SCATTERED,R=E		
Mar 22 2004 12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 21 1984 12.5"	16mm	SAME		
Jul 06 1983 12.5"	12mm	VB,VL,BNUC,SMALL BRT NUC,RESOLVED HALO OF HUNDREDS OF *S		
Jul 29 1981 12.5"	16mm	EB,PL,BNUC,BRT HALO OF *S		
Mar 27 1981 12.5"	24mm	MESSIER MARATHON 1981		
Sep 07 1980 12.5"	24mm			
Jul 15 1980 12.5"	24mm			
Jul 12 1980 12.5"	24mm			
Jul 11 1980 12.5"	24mm			
Jul 11 1980 12.5"	24mm			
Jul 05 1980 12.5"	24mm			
Jun 20 1980 12.5"	24mm			
Jun 17 1980 12.5"	24mm			
186 NGC 7089	Aqr M2	Globular	GCL,B,VL,GPMBM,RRR	M 2

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186 NGC 7089	Aqr M2	Globular	GCL,B,VL,GPMBM,RRR M 2
Jul 05 2008	31" 17mmT4	EB,VL,BRT CORE RESOLVED,CLASS II,HISB MIDDLE,R=E	
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Jul 09 1983	12.5" 12mm	VB,VL,RESOLVED,BM,HUNDREDS OF *S VISIBLE FAR FROM NUC,HISB MIDDLE	
Jul 10 1981	12.5" 16mm	RESOLVED TO CORE	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
Oct 31 1980	12.5" 24mm		
Sep 09 1980	12.5" 24mm		
Jul 17 1980	12.5" 24mm		
Jun 20 1980	12.5" 24mm		
Jun 18 1980	12.5" 9mm	EXCELLENT UNDER HIGH POWER,USE BARLOW	
187 NGC 7099	Cap M30	Globular	GCL,B,L,LE,GPMBM M 30
Sep 28 2013	36" 17mmT4	M30,EB,VL,HISB,ABOUT A DOZEN B* WITH HUNDREDS FAINTER *,RESOLVED TO CORE,HISB CORE,CORE ELONG,TYPE VI,R=E	
Sep 04 2005	10" 12mmT4	VB,PL,RESOLVED TO CORE,SEVERAL HUNDRED *S,HISB IN CORE,F OUTER HALO GLOW,R=E	
Jul 08 1983	12.5" 16mm	MB,PL,BNUC,MORE *S SCATTERED TO N,B*S TO N,BNUC,OUTTER *S RESOLVED	
Jul 10 1981	12.5" 16mm	MB,PS,BRT CENTRAL REGION,GBM,HALO OF F*S	
Sep 10 1980	12.5" 24mm		
190 NGC 7492	Aqr	H558-3 Globular	EF,L,BET2D*
Jul 10 1981	12.5" 16mm	DIF,PF,VL,FAINT DIF *S	
Sep 10 1980	12.5" 32mm	BARELY VISIBLE	