

Observations by Messier Objects

NGC 1952 Tau	M1	Nebula SNR	VB,VL,E135,VGLBM,R	Crab Nebula
Feb 05 2005	31" 31mmT5	EB,EL,OVAL,HISB,MANY F*S IN NEB,PATCHY AREAS DET,BEST EVER TO DATE,R=E		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Dec 26 2003	31" 17mmT4	VB,EL,OVAL,SEVERAL *S IN OBJECT,PATCH AREAS DET,BEST OBSERVATION TO DATE,M1,R=		
Dec 25 1984	12.5" 12mm	SAME,VB,VL		
Mar 02 1984	10" 20mm	SAME		
Mar 27 1982	12.5" 12mm	EDGES START TO BREAK UP,HISB		
Mar 27 1982	12.5" 24mm	SNR,DIF,MB,ML,HISB,OVAL,MOD BM		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
Sep 18 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Sep 09 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
NGC 7089 Aqr	M2	Globular II	GCL,B,VL,GPMBM,RRR	M 2
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		
NGC 5272 CVn	M3	Globular VI	GCL,EB,VL,VSMBM,*11.	M 3
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		
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			
NGC 6121 Sco	M4	Globular IX	CL,8OR1OB*LINE,RRR	M 4
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
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			

Observations by Messier Objects

NGC 5904 Ser	M5		Globular V	GCL,VB,L,ECM,*11..15	M 5
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			
NGC 6405 Sco	M6		Open Cluster III2p	CL,L,IR,LC,ST7,10...	Butterfly Cluster
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5"	24mm			
NGC 6475 Sco	M7		Open Cluster II2r	CL,VB,PRI,LC,*7...12	M 7
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5"	24mm			
NGC 6523 Sgr	M8		Nebula EN	VB,EL,EIF,W/LCL	Lagoon Nebula
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1984	12.5"	16mm	VB,VL,LAGOON NEBULA,DARK PATCH ALL WAY THROUGH,BRT AREAS OF NEB ONE SIDE		
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 17 1980	12.5"	24mm			
Jul 15 1980	12.5"	24mm			
Jun 10 1980	6"	24mm			
May 07 1980	5"	9mm			
NGC 6333 Oph	M9		Globular VIII	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			

Observations by Messier Objects

NGC 6254 Oph M10	Globular VII	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		
NGC 6705 Sct M11	Open Cluster I2r	CL,VB,L,IR,RI,*9,	Wild Duck Cluster
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
Jul 15 1980	12.5" 24mm		
May 07 1980	5" 9mm		
NGC 6218 Oph M12	Globular IX	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		
NGC 6205 Her M13	Globular V	GCL,EB,VRI,VGECM,*11	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		

Observations by Messier Objects

NGC 6402 Oph	M14	Globular VIII	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			
NGC 7078 Peg	M15	Globular IV	GCL,VB,VL,IR,VSMBM	M 15
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			
NGC 6611 Ser	M16	Open Cluster II3m	CL,ATLEAST100* L\$\$	Eagle Nebula
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
May 31 1981	12.5" 16mm	VB,EL,CLUSTER ASSOC WITH EAGLE NEB		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jun 18 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
NGC 6618 Sgr	M17	Nebula EN+OC	B,EL,EIF,2HOOKED	Omega Nebula
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Sep 21 1984	12.5" 24mm	EB,VL,OMEGA NEB,CRACKS DET,DARK CLOUD DET IN W EDGE,FINE FILAMENTS OF NEB		
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 17 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
Jul 15 1980	12.5" 24mm	NICE!!,NEB FILTER SHOWS QUESTION MARK EASILY		
Jun 17 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
NGC 6613 Sgr	M18	Open Cluster II3pn	CL,P,VLC	M 18
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jul 17 1980	12.5" 24mm			

Observations by Messier Objects

NGC 6273 Oph	M19		Globular VIII	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			
NGC 6514 Sgr	M20	H41-4	Nebula EN+OC	VB,VL,TRIFID,D*INV	Trifid Nebula
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1984	12.5"	24mm	SAME,TRIFID NEBULA		
Aug 13 1982	12.5"	24mm	MB,VL,DUST LANES EASILY DET,BRT DOUBLE * IN CENTER,BOTH PARTS DET		
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"	32mm	GREAT!!,DOUBLE * IS IN CENTER OF NEB		
Jun 18 1980	12.5"	24mm			
Jun 10 1980	6"	24mm			
May 07 1980	5"	9mm			
NGC 6531 Sgr	M21		Open Cluster I3m	CL,PRI,LC,ST9...12	M 21
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1984	12.5"	16mm	VB,ML,APPROX 20*S,LOOSE,B* IN CENTER		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980	12.5"	24mm			
Jun 18 1980	12.5"	24mm			
Jun 10 1980	6"	24mm			
NGC 6656 Sgr	M22		Globular VII	GCL,VB,VL,R,VRI,VMC	M 22
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			
NGC 6494 Sgr	M23		Open Cluster III1m	CL,B,VL,PRI,LC,*10..	M 23
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Sep 20 1984	12.5"	24mm	MB,VL,*S LOOSE & SCATTERED,*S APPROX SAME MAG,CLUSTERING DET N PART		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980	12.5"	24mm			
Jun 18 1980	12.5"	24mm			

Observations by Messier Objects

NGC 6603 Sgr	M24	Open Cluster I1r	CL,VRI,VMC,R,M WAY	
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jul 17 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
IC 4725 Sgr	M25	Open Cluster I2p		M25
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jul 17 1980	12.5" 24mm	M25		
NGC 6694 Sct	M26	Open Cluster I1m	CL,CL,PRI,PC,ST12.15	M 26
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
NGC 6853 Vul	M27	Planetary Neb PN	VB,VL,BIN,IE,DUMBBEL	Dumbbell Nebula
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Aug 20 2003	31" 25mm	EB,EL,EXTREMELY HISB,ABOUT DOZEN *S INSIDE NEB,DETAILED AND PATCHY,R=E		
Jun 27 2003	12.5" 9mmT6	EB,EL,OIII FILTER ABSOLUTLY UNBELIEVABLE.DETAIL IN NEBULOSITY.BEST TO DATE,R=E		
Sep 19 1984	12.5" 12mm	VB,VL,HOUR GLASS SHAPE VERY EASILY DET,FAINT OUTER LOB DET BOTH SIDES		
Sep 20 1981	12.5" 24mm			
Jul 30 1981	12.5" 12mm	BLUE GREEN,*S SEEN IN NEB,VB,EL,CENTRAL * DET		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Jul 15 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			
Jun 10 1980	6" 24mm			
NGC 6626 Sgr	M28	Globular IV	GCL,VB,L,R,GECM,RRR	M 28
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			
NGC 6913 Cyg	M29	Open Cluster III3p	CL,P,LC,STL\$\$	M 29
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Jun 23 2003	12.5" 9mmT6	EB,EL,APPROX 50*,VARIOUS MAGNITUDES,WELL PLACED IN 9MM,R=G		
Jul 24 1981	12.5" 16mm	MB,ML		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jul 05 1980	12.5" 24mm			
Jun 20 1980	12.5" 24mm			

Observations by Messier Objects

NGC 7099 Cap	M30	Globular V	GCL,B,L,LE,GPMBM	M 30
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			
NGC 224 And	M31	Galaxy Sb	EEB,EL,VME,ANDROMEDA	Great Nebula in Andromeda
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Aug 31 1984	12.5" 24mm	EB,EL,BNUC,DUST LANES DET,B* BY NUC,RB NUC,EBM,ARMS STRETCH ACROSS FIELD		
Mar 02 1984	10" 20mm	SAME		
Sep 23 1981	12.5" 32mm	S ARM B THAN N,2 DARK LANES S ARM THROUGHOUT,EB,EL,BNUC,BARMS		
Sep 20 1981	12.5" 24mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
Jul 24 1980	12.5" 32mm	BEST OBSERVED TO DATE		
Jul 17 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm			
NGC 221 And	M32	Galaxy E2	VVB,L,R,PSMBMN	M 32
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Aug 31 1984	12.5" 12mm	VB,MS,F * NE SEVERAL GAL DIA,VMBM,OVAL,HISB,HALO		
Mar 02 1984	10" 20mm	SAME		
Sep 23 1981	12.5" 16mm	VMBM,HALO,BNUC,VR,ML,VB		
Sep 20 1981	12.5" 24mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
Jul 24 1980	12.5" 32mm	BEST OBSERVED TO DATE		
Jul 17 1980	12.5" 24mm			
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jun 17 1980	12.5" 24mm			

Observations by Messier Objects

NGC 598	Tri	M33	H17-5	Galaxy Sc	EB,EL,R,VGBMN	6	Triangulum Galaxy
Mar 19 2004	12.5"	12mmT4		MESSIER MARATHON 2004			
Mar 02 1984	10"	20mm		SAME			
Sep 23 1981	12.5"	16mm		MB,EL,BARM,SPIRAL STR DETECTED,H2 REGIONS DET,2-3 MAJOR ARMS SEEN			
Sep 20 1981	12.5"	24mm					
Mar 27 1981	12.5"	24mm		MESSIER MARATHON 1981			
Oct 31 1980	12.5"	24mm					
Sep 18 1980	12.5"	24mm					
Sep 10 1980	12.5"	32mm		GREAT!!,SEVERAL ARMS,STR SEEN			
Sep 07 1980	12.5"	24mm					
Sep 03 1980	12.5"	24mm					
Aug 22 1980	12.5"	24mm					
Aug 19 1980	12.5"	32mm					
Jul 24 1980	12.5"	32mm		BEST I'VE EVER SEEN,GREAT!!!			
Jul 15 1980	12.5"	24mm		EF,EL,LOOKS LIKE DIF NEB,NO SPR STR DET			
NGC 1039	Per	M34		Open Cluster II3m	CL,B,VL,LC,SC ST9		M 34
Mar 19 2004	12.5"	12mmT4		MESSIER MARATHON 2004			
Mar 02 1984	10"	20mm		SAME			
Oct 03 1981	12.5"	24mm		VB,VL,SCATTERED *S,BETTER IN 32MM			
Sep 20 1981	12.5"	24mm					
Mar 27 1981	12.5"	24mm		MESSIER MARATHON 1981			
Sep 10 1980	12.5"	24mm					
Sep 07 1980	12.5"	24mm					
Jul 17 1980	12.5"	24mm					
Jul 11 1980	12.5"	24mm					
NGC 2168	Gem	M35		Open Cluster III2m	CL,VL,CRI,PC,ST9..16		M 35
Mar 19 2004	12.5"	12mmT4		MESSIER MARATHON 2004			
Mar 02 1984	10"	20mm		SAME			
Mar 27 1982	12.5"	24mm		VB,EL,BRT IN FINDER,HUNDRES OF *S APPROX SAME MAG			
Oct 30 1981	12.5"	24mm		VB,VL,WELL DISPERSED			
Mar 27 1981	12.5"	24mm		MESSIER MARATHON 1981			
Dec 03 1980	12.5"	24mm					
Oct 31 1980	12.5"	24mm					
Sep 10 1980	12.5"	24mm					
NGC 1960	Aur	M36		Open Cluster II3m	CL,B,VL,VRI,CL,*9.11		M 36
Mar 19 2004	12.5"	12mmT4		MESSIER MARATHON 2004			
Mar 02 1984	10"	20mm		SAME			
Mar 27 1982	12.5"	24mm		VB,ML,50*S DISPURSED,M38 BETTER			
Mar 27 1981	12.5"	24mm		MESSIER MARATHON 1981			
Dec 03 1980	12.5"	24mm					
Oct 29 1980	8"	24mm					
Sep 09 1980	12.5"	24mm					
Aug 22 1980	12.5"	24mm					

Observations by Messier Objects

NGC 2099 Aur	M37		Open Cluster II1r CL,RI,PCM,ST L\$\$	M 37
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Mar 27 1982	12.5"	24mm	MB,PL,BEAUTIFUL,WELL PLACED IN 24MM,1B* IN CENTER,* SAME MAG	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5"	24mm		
Oct 29 1980	8"	24mm		
Sep 09 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
Apr 16 1980	6"	24mm		
NGC 1912 Aur	M38		Open Cluster III2m CL,B,VL,VRI,IF,STL\$\$	M 38
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Mar 27 1982	12.5"	24mm	MB,VL,100*S APPROX SAME MAG,WELL PLACED IN 24MM	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5"	24mm		
Oct 29 1980	8"	24mm		
Sep 09 1980	12.5"	24mm		
Aug 22 1980	12.5"	24mm		
NGC 7092 Cyg	M39		Open Cluster III2p CL,VL,VP,VLC,*7...10	M 39
Mar 22 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 17 1980	12.5"	24mm		
WINN4 UMa	M40		Unknown STAR	WINNECKE 4
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	MB,MS,2*S APPROX SAME MAG,LOC IN BARREN * FIELD	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
NGC 2287 CMa	M41		Open Cluster II3m CL,VL,B,LC,ST 8...	M 41
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Mar 27 1982	12.5"	24mm	VB,EL,WELL DISPERSED IN 24MM,50-100*S WITH MANY F*S IN BACKGROUND	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5"	24mm		
Oct 31 1980	12.5"	24mm		
Sep 18 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm		

Observations by Messier Objects

NGC 1976 Ori	M42	Nebula EN+RN	THETAORI \$GREAT NEB	Great Nebula in Orion
Feb 05 2005	31" 31mmT5	EEB,EEL,SEVERAL FOV'S,AWSOME,COLORS DET,R=E		
Dec 04 2004	31" 31mmT5	DIF,EB,EL,2 FOV'S,ABSOLUTLY THE BEST EVER SEEN TO DATE,COLOR AND SHADES OF COLO		
Dec 04 2004	31" 31mmT5	DIF,EB,EL,WITH OIII,EVEN BETTER,MORE NEB DET,MUCH MORE DETAIL,THE BEST,R=E		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Mar 27 1982	12.5" 24mm	VB,ML,3 SHADES OF COLOR VIS,DARK PATCHES,BEAUTIFUL!!!		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
Sep 18 1980	12.5" 24mm	TRAPIZUM BLUE-GREEN,BLUER AS YOU GO OUT,TIPS SHOW RED		
Sep 10 1980	12.5" 24mm			
Sep 09 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm	BEAUTIFUL!!!		
NGC 1982 Ori	M43 H1-3	Nebula EN	VB,VL,RW/TAIL,MBM*8	M 43
Dec 04 2004	31" 31mmT5	DIF,EB,EL,WITH OIII,SHADES OF COLORS,INCREDIBLE DETAIL,BEST SEEN TO DATE,R=E		
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Mar 27 1982	12.5" 24mm	MF,PL,OVERWHELMED BY M42,R,BLUE GREEN GAS,2*S IN NEB		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
Sep 18 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
NGC 2632 Cnc	M44	Open Cluster II2m PRAESEPE CANCRI		Praesepe
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Feb 21 1984	12.5" 24mm	EB,EL,BEST IN FINDER,OVERFILLS EYEPIECE		
Mar 27 1982	12.5" 24mm	EB,EL,BEST IN FINDER,OVERFILLS 24MM		
Oct 24 1981	12.5" 24mm	VB,EL,GOOD IN FINDER		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5" 24mm			
Oct 31 1980	12.5" 24mm			
Sep 10 1980	12.5" 24mm			
May 07 1980	5" 9mm			
M 45 Tau	M45	Open Cluster		PLEIADES
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	BEAUTIFUL IN FINDER,EB,EL		
Sep 20 1981	12.5" 24mm			
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5" 24mm			
Sep 10 1980	12.5" 32mm			

Observations by Messier Objects

NGC 2437 Pup	M46		Open Cluster III2m CL,VB,VRI,VL,INV PLN	M 46
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME,SMALL PLANTARY LOCATED IN CLUSTER	
Mar 27 1982	12.5"	24mm	MF,PL,HUNDREDS OF F* APPROX SAME MAG,WELL DISPERSED	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5"	24mm		
NGC 2422 Pup	M47	H38-8	Open Cluster III2m CL,B,VL,PRI,ST L\$\$	M 47
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Oct 16 1982	12.5"	24mm	VB,VL,FILLS 24MM,B*S,LOOSE AND SCATTERED,APPROX 50*S DIFF MAG	
Mar 27 1982	12.5"	24mm	VB,VL,BRT DOUBLE * IN CENTER,APPROX 25*S,NO CLUSTERING DET,JUST B*S	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5"	24mm		
NGC 2548 Hya	M48	H22-6	Open Cluster I2m CL,VL,PRI,PMC,*9..13	M 48
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Mar 27 1982	12.5"	24mm	MB,EL,FILLS 24MM,BETTER IN FINDER	
Oct 24 1981	12.5"	24mm	VB,EL,BETTER IN FINDER,FILLS UP 24MM	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5"	24mm		
NGC 4472 Vir	M49		Galaxy E2 VB,L,R,MBM,R	M 49
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
May 01 1981	12.5"	24mm	EB,EL,BNUC,BARM,F* 12 MAG TO S,3F*S TO E	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980	6"	24mm		
NGC 2323 Mon	M50		Open Cluster II3m CL,VL,RI,PC,E,	M 50
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Feb 25 1984	12.5"	24mm	SAME	
Mar 27 1982	12.5"	24mm	MB,PL,HUNDREDS OF *S SAME MAG,SOMEWHAT SET ASIDE FROM FIELD *S	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Sep 10 1980	12.5"	24mm		

Observations by Messier Objects

NGC	CVn	M51	Galaxy Sbc	GREAT SPIRAL NEBULA	Whirlpool Galaxy
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Dec 26 2003	31"	17mmT4	EB,EL,R,SMALL BNUC,GMBM,SPRIAL ARMS DET,BEST EVER SEEN,BRT CENTRAL CORE,BRT H2		
Dec 26 2003	31"	17mmT4	(CONT) REGIONS DET,M51,R=E		
Mar 02 1984	10"	20mm	SAME		
Jan 28 1982	12.5"	16mm	DARK AREAS SEPARATE WINDING ARMS,INTERACTING WITH 5195		
Jan 28 1982	12.5"	24mm	VB,VL,BNUC,BARMS,*S IN S PART,BRIDGE COMPLETE,SPR STR DET		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5"	24mm			
Oct 31 1980	12.5"	24mm			
Jul 14 1980	12.5"	24mm			
Jul 11 1980	12.5"	24mm			
Jul 05 1980	12.5"	24mm			
May 07 1980	5"	9mm			
Apr 18 1980	6"	24mm			
Apr 16 1980	6"	24mm			
NGC 7654	Cas	M52	Open Cluster I2r	CL,L,RI,MCM,R,*9..13	M 52
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Jul 31 1981	12.5"	24mm	PB,VL,7-8*,UB,R,B* N SIDE OF M52		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jul 17 1980	12.5"	24mm			
Jun 20 1980	12.5"	24mm			
NGC 5024	Com	M53	Globular V	GCL,B,VC,IR,VVMBM,	M 53
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		
NGC 6715	Sgr	M54	Globular III	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			
NGC 6809	Sgr	M55	Globular XI	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			

Observations by Messier Objects

NGC 6779 Lyr	M56	Globular X	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			
NGC 6720 Lyr	M57	Planetary Neb PN	RINGNEB,B,PL,CE,LYRA	Ring Nebula in Lyra
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Sep 23 2003	31" 17mmT4	EB,EL,FIRST LIGHT WITH 17MM,CENTRAL * DET,BEST OBSERVATION TODATE.OBLONG RING		
Sep 01 2002	31" 9mmT6	CENTRAL * SEEN. FAINT DETAIL IN NEB,BEST VIEW TO DATE		
Sep 20 1981	12.5" 24mm			
Jun 04 1981	12.5" 9mm	WITH BARROW,CENTRAL * COMES AND GOES WITH AVERTED VISION,2B*S INSIDE RING		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5" 24mm			
Sep 07 1980	12.5" 24mm			
Sep 03 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
Jul 15 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" 24mm			
Jun 17 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
May 07 1980	5" 9mm			
Apr 18 1980	6" 24mm			
Apr 16 1980	6" 24mm			
NGC 4579 Vir	M58	Galaxy SBb	B,L,IR,VMBM,R	M 58
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Jun 04 1981	12.5" 24mm	PB,PL,BNUC,DIM HALO		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jun 10 1980	6" 24mm			
NGC 4621 Vir	M59	Galaxy E5	B,PL,LE,VSVMBM,2*P	M 59
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jun 10 1980	6" 24mm			

Observations by Messier Objects

NGC 4649 Vir	M60		Galaxy E2	VB,PL,R,FOF DNEB	M 60
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 27 1982	12.5"	12mm	MF,PS,ELONG,BNUC,LOC IN BARREN * FIELD,PAIR/4638		
Jun 04 1981	12.5"	24mm	PB,PL,BNUC,BRT HALO,PAIR/4638		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 4303 Vir	M61	H139-1	Galaxy SBbc	VB,VL,VSBM*,BIN	M 61
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Feb 12 1983	12.5"	24mm	PB,VL,STELL NUC,ARMS DET,FACE ON,KNTS DET		
Apr 25 1981	12.5"	24mm	DIF,VB,VL,DNUC,FARM		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 6266 Oph	M62		Globular IV	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			
NGC 5055 CVn	M63		Galaxy Sbc	VB,L,PME120,VSMBMBN	Sunflower Galaxy
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10"	20mm	SAME		
Jan 28 1982	12.5"	16mm	PB,PL,ELONG,BNUC,VMBM,DIF HALO,B* OFF W SIDE		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5"	24mm			
Jul 05 1980	12.5"	24mm			
Apr 16 1980	6"	24mm			
NGC 4826 Com	M64		Galaxy Sab	VB,VL,VME120,BMSBN	Black-eye Galaxy
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10"	20mm	VB,VL,OVAL,SMALL BNUC,SBM		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
NGC 3623 Leo	M65		Galaxy SBa	B,VL,ME165,GBMBN	M 65
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Feb 15 2004	31"	17mmT4	EB,EL,EDGE ON,LARGE BNUC,HISB,ARMS AND DUST,M65,BEST SEEN TODATE,R=E		
Mar 03 1984	12.5"	12mm	VB,VL,EDGE ON,BNUC,BARM,LARGE BRT NUC,TAPPERED ENDS,VMBM,VF* E EDGE,2B**S OPP		
Mar 02 1984	10"	20mm	SAME		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5"	24mm	EB,EL,BNUC,BRIGHT HALO,PAIR/3627/3626		
Dec 03 1980	12.5"	24mm			
Jun 10 1980	6"	24mm			
Apr 18 1980	6"	24mm	CLOSE PAIR/M66		

Observations by Messier Objects

NGC 3627 Leo	M66	Galaxy SBb	B,VL,ME150,MBM,2*NP	M 66
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Feb 15 2004	31" 17mmT4	EB,EL,OVAL,LARGE BNUC,BRT BAR,SPR ARMS DET,DUST DET,HISB,M66, BEST TODATE,R=E		
Mar 03 1984	12.5" 12mm	VB,VL,EDGE ON,BNUC,GBM,VERY BRT SMALL NUC,B*NW,FAINTER * SW		
Mar 02 1984	10" 20mm	SAME		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5" 24mm	EB,EL,ELONG,BNUC,BRT HALO,PAIR/3626/3628		
Dec 03 1980	12.5" 24mm			
Jun 10 1980	6" 24mm			
Apr 18 1980	6" 24mm	CLOSE PAIR/M65		
NGC 2682 Cnc	M67	Open Cluster II2m	CL,VB,VL,ERI,LC,*10.	M 67
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Feb 21 1984	12.5" 16mm	SAME,WELL PLACED IN 16MM,VB,VL		
Mar 27 1982	12.5" 24mm	VB,VL,HUNDREDS OF *S,APPROX SAME MAG		
Oct 24 1981	12.5" 24mm	VB,VL,80*S IN ROUND SHAPE		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5" 24mm			
NGC 4590 Hya	M68	Globular X	GCL,L,ERI,VC,IR,ST12	M 68
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5" 24mm			
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			
NGC 6681 Sgr	M70	Globular V	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			
NGC 6838 Sge	M71	Globular GCL	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/H20		
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			

Observations by Messier Objects

NGC 6981 Aqr	M72	Globular IX	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			
NGC 6994 Aqr	M73	Open Cluster IV1p	CL,EP,VLC,NO NEB	M 73
Mar 22 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Aug 31 1984	12.5" 16mm	MF,MS,4**S IN A SMALL Y SHAPE,NOT A TRUE CLUSTER		
Jul 09 1983	12.5" 12mm	MB,PS,ASTERISM OF 4**S,LOOKS LIKE SMALL SEGATTA CONST		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jun 18 1980	12.5" 24mm	4**S LOC ALL BY THEMSELVES		
NGC 628 Psc	M74	Galaxy Sc	GCL,F,VL,R,VG,PSMBM	M 74
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Sep 24 1981	12.5" 16mm	PB,PL,DNUC,GBM,3F**S W,2F**S E SIDE,SOME STR IN ARMS SUSP		
Oct 31 1980	12.5" 24mm			
Oct 29 1980	8" 24mm			
Sep 07 1980	12.5" 24mm			
Aug 22 1980	12.5" 24mm			
NGC 6864 Sgr	M75	Globular I	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			
NGC 650 Per	M76	Planetary Neb PN	VB,P OF DNEB	Little Dumbbell
Mar 19 2004	12.5" 12mmT4	W/OIII. VB,PL,HOUR GLASS SHAPE,BAR,TWO HALVES,MESSIER MARATHON 2004,R=E		
Dec 06 2002	12.5" 9mmT6	PB,PL,2 LOBES EASILY DETECTED,MHISB,BRT REGION IN ONE LOBE. M76		
Mar 02 1984	10" 20mm	SAME		
Aug 25 1982	12.5" 16mm	HOUR GLASS SHAPE,WHIPHS OF NEB AROUND TIPS,SAME AS BEFORE		
Oct 03 1981	12.5" 24mm	BLUE GREEN,MB,PS,S PART BRTER,HISB,2 PARTS DET,DARK PATCH		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Aug 22 1980	12.5" 24mm			
Aug 19 1980	12.5" 24mm			
Jul 24 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			

Observations by Messier Objects

NGC	Const	M		Galaxy Sb/P	VB,PL,IR,SBMRRN	M
NGC 1068	Cet	M77		Galaxy Sb/P	VB,PL,IR,SBMRRN	M 77
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004			
Mar 02 1984	10"	20mm	SAME			
Sep 27 1981	12.5"	16mm	PB,PL,SUDDENLY BUILDS TO BRIGHT STAR LIKE NUC,FACE ON,FAINT HALO ARMS DET			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981			
Oct 31 1980	12.5"	24mm				
Oct 29 1980	8"	24mm				
Sep 18 1980	12.5"	24mm				
Sep 07 1980	12.5"	24mm				
NGC 2068	Ori	M78		Nebula RN	B,L,WISP,GMBN,3*INV	M 78
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004			
Mar 02 1984	10"	20mm	SAME,ONE EDGE WELL DEFINED			
Mar 27 1982	12.5"	24mm	MF,PL,LOCATED IN BARREN * FIELD,2F*S IN CENTER			
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981			
Oct 31 1980	12.5"	24mm				
Oct 29 1980	8"	24mm				
Sep 10 1980	12.5"	24mm				
Sep 09 1980	12.5"	24mm				
Aug 22 1980	12.5"	24mm				
NGC 1904	Lep	M79		Globular V	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				
NGC 6093	Sco	M80		Globular II	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				

Observations by Messier Objects

NGC 3031 UMa M81		Galaxy Sb	EB,EL,E156,GSVMBMBN 2 Bode's Nebula
Feb 04 2005	31" 17mmT4	EB,EL,ELONG,LARGE BNUC,HISB,TIGHT CORE,ARMS,R=E	
Apr 14 2004	31" 17mmT4	EF,EL,LARGE BNUC,HISB,M81,R=E	
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Mar 15 1985	12.5" 16mm	VB,VL,ELONG,BNUC,LARGE SOFT NUC,VMBM,1F*S TIP,FAINT HALO TO TAPPED ENDS	
Mar 02 1984	10" 20mm	SAME	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5" 24mm		
Oct 31 1980	12.5" 24mm		
Oct 29 1980	8" 24mm		
Sep 18 1980	12.5" 24mm		
Sep 10 1980	12.5" 24mm		
Sep 09 1980	12.5" 24mm		
Aug 22 1980	12.5" 24mm		
NGC 3034 UMa M82 H79-4		Galaxy Sd	VB,VL,VME(RAY) M 82
Feb 04 2005	31" 17mmT4	EB,EL,EDGE ON,HISB,EDGE TO EDGE IN FOV,PATCHY,DUST,NUC BROKEN,BEST TO DATE,R=E	
Apr 14 2004	31" 17mmT4	EF,EL,HISB,BEST EVER TODATE,NUC AREA PATCHY,DARK AREAS,BROKEN PARTS,R=E	
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Mar 15 1985	12.5" 12mm	SAME,IRR	
Mar 02 1984	10" 20mm	VB,VL,EDGE ON,HISB,B* OFF ONE TIP,DARK PATCHES	
Oct 22 1982	12.5" 12mm	VB,VL,EDGE ON,VERY HISB,2 DUST LANES DET,BRT REGIONS DET,TAPPED,KNTY	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
Dec 03 1980	12.5" 24mm		
Oct 31 1980	12.5" 24mm		
Oct 29 1980	8" 24mm		
Sep 18 1980	12.5" 24mm		
Sep 10 1980	12.5" 24mm		
Sep 09 1980	12.5" 24mm		
Aug 22 1980	12.5" 24mm		
NGC 5236 Hya M83		Galaxy SBc	VB,VL,E55,ESBMN,SPIR M 83
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
NGC 4374 Vir M84		Galaxy E1	VB,PL,R,PSBM,R M 84
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Apr 25 1981	12.5" 24mm	EB,PL,BNUC,BARM,HALO	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
Jun 10 1980	6" 24mm		
NGC 4382 Com M85		Galaxy S0-a	VB,PL,R,BM,*NP M 85
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10" 20mm	SAME	
Feb 12 1983	12.5" 16mm	VB,ML,BNUC,F* IN N SIDE,R,BM,PAIR/4394	
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981	
Jun 10 1980	6" 24mm		

Observations by Messier Objects

NGC 4406 Vir	M86		Galaxy E3	VB,L,R,GBMN,R	M 86
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Apr 25 1981	12.5"	24mm	EB,PL,BARM,PAIR/4388		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 4486 Vir	M87		Galaxy E/P	VB,VL,R,MBM,3RD OF 3	M 87
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
May 01 1981	12.5"	24mm	EB,EL,BNUC,1 OF 3 COMP		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 4501 Com	M88		Galaxy Sb	B,VL,VME	M 88
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10"	20mm	SAME,2F**S ONE SIDE,ANOTHER F* OPPOSITE SIDE		
Feb 12 1983	12.5"	16mm	VB,VL,BNUC,BRT H2 REGION AND ARMS,DIF ARMS,SLIGHTLY ELONG		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 4552 Vir	M89		Galaxy E	PB,PS,R,GMBM	M 89
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Jun 04 1981	12.5"	24mm	VB,VL,BNUC,BRT HALO,PAIR/4550		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 4569 Vir	M90		Galaxy SBab	PL,BMN	M 90
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Jun 04 1981	12.5"	24mm	EB,EL,ELONG,BNUC,BRT HALO		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			
NGC 4548 Com	M91	H120-2	Galaxy SBb	B,L,LE,LBM	M 91
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10"	20mm	SAME		
Feb 12 1983	12.5"	24mm	MB,PL,BNUC,R,LARGE NUC,DIF HALO		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Jun 10 1980	6"	24mm			

Observations by Messier Objects

NGC 6341 Her	M92	Globular IV	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			
NGC 2447 Pup	M93	Open Cluster IV1p	CL,L,PRI,LC,ST8...13	M 93
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Mar 27 1982	12.5" 24mm	VB,ML,WELL PLACED,100"*S APPROX SAME MAG		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Dec 03 1980	12.5" 24mm			
NGC 4736 CVn	M94	Galaxy Sab	VB,L,IR,VSVMBMBN,R	M 94
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Feb 17 2004	31" 17mmT4	EB,EL,R,EXTREMELY BNUC,MHISB,SPIRAL ARMS,HISB MIDDLE,BEST TO DATE,M94,R=E		
Mar 02 1984	10" 20mm	SAME		
Jan 28 1982	12.5" 16mm	VB,ML,BNUC,HISB,ARMS,R		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5" 24mm			
Jul 05 1980	12.5" 24mm			
Apr 16 1980	6" 24mm			
NGC 3351 Leo	M95	Galaxy SBb	B,L,R,PGMBMN	M 95
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Feb 25 1984	12.5" 12mm	MB,PL,BNUC,FAINT HALO,HISB TOWARDS MIDDLE		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5" 24mm	VB,VL,BNUC,BRIGHT HALO		
Dec 03 1980	12.5" 24mm			
NGC 3368 Leo	M96	Galaxy SBab	VB,VL,LE,VSVMBM,R	M 96
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Feb 25 1984	12.5" 16mm	MB,PL,ELONG,BNUC,BM,HISB IN MIDDLE		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5" 24mm	DIF,VB,VL,ELONG,BNUC,BRIGHT HALO		
Dec 03 1980	12.5" 24mm			

Observations by Messier Objects

NGC 3587 UMa M97		Planetary Neb PN	PLN,VB,VL,R,VVG,VSBM	Owl Nebula
Feb 04 2005	31"	17mmT4	OIII,VB,EL,OVAL,HISB,2 DARK PATCHES,CENTRAL *	BEST TO DATE,PATCHY AREAS,DET,R=E
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Dec 26 2003	31"	17mmT4	PB,VL,MOD HISB,CENTRAL *	DARK PATCHES,EDGES FRAILED,ANOTHER F* OFF CENTER,R=E
Mar 15 1985	12.5"	12mm	VERY R,DARK PATCHES DET,BG COLOR,BEST VIEW EVER!!!	
Mar 15 1985	12.5"	16mm	SAME,EB,VL	
Mar 02 1984	10"	20mm	MB,ML,R,B* OFF ONE SIDE,UB WITH SOME DARK AREAS	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Oct 31 1980	12.5"	24mm		
Sep 18 1980	12.5"	24mm		
Sep 10 1980	12.5"	24mm		
May 07 1980	5"	9mm		
Apr 18 1980	6"	24mm		
Apr 16 1980	6"	24mm	IN SAME FOV WITH M108	
NGC 4192 Com M98		Galaxy SBb	B,VL,VME152,VSMBM	M 98
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	SAME	
Feb 27 1982	12.5"	16mm	MB,PL,EDGE ON,BNUC,F*N OF NUC,CENTRAL BULGE,TAPERED ENDS,BRT H2 REGIONS IN EQ	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980	6"	24mm		
NGC 4254 Com M99		Galaxy Sc	B,L,R,GBM,R,3BRSPIRA	Pin-wheel Nebula
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	MB,ML,ELONG,PATCHY,SBM,MOD HISB	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980	6"	24mm		
NGC 4321 Com M100		Galaxy SBbc	PF,VL,R,VG,PSBMRN	M 100
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 02 1984	10"	20mm	MB,VL,BNUC,FACE ON,R-OVAL,SMALL BRT NUC,F*NW OUTER EDGE	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Jun 10 1980	6"	24mm		
NGC 5457 UMa M101		Galaxy SBc	PB,VL,IR,G,VSMBMBSN	4 M 101
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004	
Mar 06 2003	12.5"	9mmT6	EB,EL,R,BNUC,HISB,FACE ON,KNTS DET,ARMS DET,SPR STR DET,F*S,SMALL RNUC,R=E	
Mar 02 1984	10"	20mm	MB,EL,BNUC,FACE ON,F* JUST N OF NUC,SPR STR SUSP	
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981	
Apr 16 1980	6"	24mm		

Observations by Messier Objects

NGC 5866 Dra	M102 H215-1	Galaxy S0-a	VB,CL,PME146,GBM	M 102
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Apr 23 2003	12.5" 9mmT6	EB,,VL,OVAL,BNUC,HISB,AWSOME,BEAUTIFUL,TAPPERED ENDS,LARGE NUC AREA,GMBM,R=E		
Mar 02 1984	10" 20mm	SAME		
Jul 09 1983	12.5" 12mm	MB,ML,BNUC,2F*S ON BOTH SIDES,LARGE BRT NUC,TAPPERED ENDS		
Jul 22 1981	12.5" 16mm	VB,ML,ELONG,BNUC,BRT HALO AROUND NUC		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jul 14 1980	12.5" 24mm			
Jul 11 1980	12.5" 24mm			
Jun 20 1980	12.5" 24mm			
NGC 581 Cas	M103	Open Cluster III2p	CL,PL,B,R,RI,*10..11	M 103
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Jul 31 1981	12.5" 24mm	PB,ML,*S 7...10 MAG,TRIANGLE SHAPE		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Sep 18 1980	12.5" 24mm			
Sep 03 1980	12.5" 24mm			
Jul 17 1980	12.5" 24mm			
NGC 4594 Vir	M104 H43-1	Galaxy Sa	VB,VL,EE92,VSMBMN	Sombrero Galaxy
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Feb 12 1983	12.5" 16mm	VB,ML,EDGE ON,BNUC,DUST LANE EASILY DET,BRT CENTRAL BULGE,CUT IN TWO		
May 01 1981	12.5" 24mm	VB,PL,EDGE ON,BUC,BRT HALO,DUST LANE SEEN THROUGH GAL		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
May 07 1980	5" 9mm	EXCELLENT!!,DUST LANE DET,SHAPE DET		
NGC 3379 Leo	M105 H17-1	Galaxy E1	VB,CL,R,PSBM,R	M 105
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Feb 25 1984	12.5" 16mm	MB,ML,BNUC,R,PAIR/3384/3389		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Jan 30 1981	12.5" 24mm	EB,VL,BNUC,PAIR/3384/3389		
Dec 03 1980	12.5" 24mm			
NGC 4258 CVn	M106 H43-5	Galaxy SBbc	VB,VL,VME0,SBMBN	M 106
Mar 19 2004	12.5" 12mmT4	MESSIER MARATHON 2004		
Mar 02 1984	10" 20mm	SAME		
Jan 26 1982	12.5" 16mm	VB,VL,BNUC,FAINT HALO,* ON NW EDGE,OVAL,4217 TO W 1 GAL DIA		
Mar 27 1981	12.5" 24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5" 24mm			
Jul 05 1980	12.5" 24mm			
May 07 1980	5" 9mm			

Observations by Messier Objects

NGC 6171 Oph	M107	H40-6	Globular X	GCL,L,VRI,VMC,R,RRR	M 107
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			
NGC 3556 UMa	M108	H46-5	Galaxy SBc	CB,VL,VME79,PBM,R	M 108
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Dec 26 2003	31"	17mmT4	VB,EL,EDGE ON,NND,MOD HISB,3*S IN GAL,H2 REGIONS DET,DUST DET,PATCHY ARMS DET,E		
Mar 15 1985	12.5"	12mm	MB,PL,VERY EDGE ON,F*N EDGE,B*CENTER,MOD HISB,KNTY STR SUSP,EXCELLENT!!!		
Mar 02 1984	10"	20mm	SAME		
Oct 22 1982	12.5"	16mm	DIF,MB,VL,F*N EDGE,EDGE ON,UB,LARGE,NND		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Oct 31 1980	12.5"	24mm			
Sep 18 1980	12.5"	24mm			
Sep 10 1980	12.5"	24mm			
May 07 1980	5"	9mm			
Apr 16 1980	6"	24mm	IN SAME FOV WITH M97		
NGC 3992 UMa	M109	H61-4	Galaxy SBbc	CB,VL,PME,SBMBRN	M 109
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Dec 26 2003	31"	17mmT4	EB,EL,ELONG,VERY LARGE BNUC,HISB NUC,FARMS DET,PATCHY AREAS DET,M109,R=E		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 18 1980	12.5"	24mm			
NGC 205 And	M110	H18-5	Galaxy E5	VB,VL,ME165,VGVMBM	M 110
Mar 19 2004	12.5"	12mmT4	MESSIER MARATHON 2004		
Aug 31 1984	12.5"	24mm	MB,PL,FNUC,COMP TO M31,ELONG,F* IN EASTERN PART,SOFT DIF NUCLEUS		
Mar 02 1984	10"	20mm	SAME		
Sep 24 1981	12.5"	16mm	SMBM,SLIGHTLY OVAL,FAINT ARMS,DIF,MB,PL,ELONGATED		
Sep 20 1981	12.5"	24mm	F* IN S ARM IN EQ PLANE		
Mar 27 1981	12.5"	24mm	MESSIER MARATHON 1981		
Sep 10 1980	12.5"	24mm			
Aug 22 1980	12.5"	24mm			
Aug 19 1980	12.5"	24mm			
Jul 24 1980	12.5"	24mm	BEST OBSERVED TO DATE		
Jul 17 1980	12.5"	24mm			
Jul 11 1980	12.5"	24mm			