

Astronomical League Planetary Nebula Observing Club

1	NGC	40	Cep	H58-4	Planetary Neb 3b+3	F,VS,R,VSMBM,*12SP
	Nov 11 2009	12"	7.5mmW	B,PS,R=G,	CENTRAL STAR VISIBLE	
	Oct 06 2004	8"	7.5mmW	MB,R,R=G		
2	NGC	246	Psc	H25-5	Planetary Neb 3b	VF,L,4*IN DIF NEB
	Nov 28 2010	12"	7mm TV	PF,PS,R=F,	IRREGULAR SHAPE, NO CENTRAL STAR, OIII HELPS	
	Nov 21 2006	8"	11mmT6	F,L,R,R=G		
3	NGC	650	Per	M76 H193-1	Planetary Neb 3+6	VB,P OF DNEB
	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	
	Oct 01 2006	1.9"	12x50	PF,PS,R,R=F		
	Jul 24 2006	8"	11mmT6	PF,L,R,R=G		
	Mar 19 2006	8"	19mmW	PF,L,VLE,R=G		
	Dec 01 2004	31"	11mmT6	VB,HISB,R=E,	SOLO EFFORT	
	Mar 19 2004	8"	25mmPL	2004 MESSIER MARATHON -	ARGO NAVIS	
	Dec 26 2003	8"	25mmPL	Q/M COLD		
4	IC	1747	Cas		Planetary Neb 3b	
	Oct 31 2010	12"	7mm TV	VF,VS,R=P.	STELLAR	
	Sep 12 2010	12"	5.5mmN	PF,VVS,R=P,	STELLAR	
6	IC	289	Cas		Planetary Neb 4+2	
	Aug 31 2010	12"	7mm TV	PF,PS,R=F.	NO CENTRAL STAR NOTED.	
7	NGC	1360	For		Planetary Neb 3	*8IN B,LNEB,E NS
	Dec 28 2008	31"	17mmT4	PF,PS,EL,R,R=G,	CENTRAL STAR, OIII	
8	IC	351	Per		Planetary Neb 2a	
	Dec 18 2006	31"	20mmUWPB,	VS,R,R=G		
9	IC	2003	Per		Planetary Neb 2	
	Dec 18 2006	31"	20mmUWB,	VS,R,R=G		
10	NGC	1501	Cam	H53-4	Planetary Neb 3	PLN,PB,PS,VLE,1'DIAM
	Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G		
11	NGC	1514	Tau	H69-4	Planetary Neb 3+2	*9IN NEB3'DIAM
	Dec 04 2004	8"	11mmT6	VB,HISB,R=G		
12	NGC	1535	Eri	H26-4	Planetary Neb 4+2c	PLN,VB,S,R,PS,VSMB,R
	Feb 17 2012	18"	11mmT6	OIII FILTER -	VERY NICE PLANETARY	
	Nov 11 2009	12"	7.5mmW	B,PS,R=G,	NO CENTRAL STAR NOTED.	
	Dec 28 2008	31"	17mmT4	VB,PS,R,R=G,	BRIGHT CENTRAL STAR!!, OIII	
	Nov 21 2006	8"	11mmT6	B,PS,R,	NO CENTRAL STAR,R=F	
14	J	320	Ori		Planetary Neb 2+4	
	Dec 28 2008	31"	17mmT4	F,VS,OVAL,R=F,	NO CENTRAL STAR	
	Dec 15 2004	8"	7.5mmW	VF,R=F		
15	IC	418	Lep		Planetary Neb 4	

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15	IC	418	Lep	Planetary Neb 4		
	Dec 28 2008	31"	17mmT4	VB,VS,R,R=G, CENTRAL STAR		
16	NGC	2022	Ori	H34-4	Planetary Neb 4+2	PLN,PB,VS,VLE
	Dec 28 2008	31"	17mmT4	F,PS,OVAL,R=G, NO CENTRAL STAR		
	Nov 22 2006	8"	11mmT6	PF,S,R=F		
	Mar 09 2004	8"	25mmPL	COMPTER = ARGONAVIS		
17	IC	2149	Aur	Planetary Neb 3b+2		
	Nov 11 2009	12"	7.5mmW	PB,PS,R=G, NO CENTRAL STAR NOTED		
18	IC	2165	CMa	Planetary Neb 3b		
	Dec 19 2006	31"	17mmT4	VB,PS,R=G, NO CENTRAL STAR		
21	NGC	2346	Mon	H65-4	Planetary Neb 3b+4	*10AFF W/ S,VF,NEB
	Feb 17 2012	18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
	Apr 09 2008	8"	11mmT6	PF,PS,NO CENTRAL STAR,R=F		
22	NGC	2371	Gem	H316-2	Planetary Neb 3a+2	B,S,R,BMN,P OF DNEB
	Feb 23 2006	31"	19mmW	FAIRLY LONG, ELONG,MSB,R=G		
	Dec 04 2004	8"	7.5mmW	MF,OVAL,R=G		
24	NGC	2392	Gem	H45-4	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
	Dec 04 2004	8"	7.5mmW	VB,R,HISB,R=E!!!		
	Nov 06 2004	8"	11mmT6	NOT A BAD PLANETARY		
25	NGC	2438	Pup	H39-4	Planetary Neb 4+2	PLN,PB,PS,VLE,R
	Feb 17 2012	18"	11mmT6	OIII FILTER - VERY NICE PLANETARY		
	Mar 13 2007	8"	7.5mmW	VF,VS,R=F, NO CENTRAL STAR		
26	NGC	2440	Pup	H64-4	Planetary Neb 5+3	PLN,CB,NOT VWELL DEF
	Feb 17 2012	18"	7mm TV	OIII FILTER - VERY NICE PLANETARY		
	Mar 13 2007	8"	7.5mmW	F,PS,R=F,IRREGULAR IN SHAPE		
27	NGC	2452	Pup	Planetary Neb 4+3	PLN,F,S,LE,AM60*	
	Nov 22 2006	8"	11mmT6	PF,PS,R=F		
29	NGC	2610	Hya	H35-4	Planetary Neb 4+2	F,S,ATTTO*13,*7NF
	Mar 29 2006	8"	11mmT6	PF,PS,R=F		
33	NGC	3242	Hya	H27-4	Planetary Neb 4+3b	PLN,VB,LE147,45"D
	Apr 08 2005	8"	7.5mmW	VB,VL,R,R=G		
34	NGC	3587	UMa M97	Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM	
	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 - ARGONAVIS		

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34	NGC	3587	UMa M97	Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM
	Dec 26 2003	8"	25mmPL Q/M COLD		
35	NGC	4361	Crv H65-1	Planetary Neb 3a+2	VB,L,R,VSMBMN,R
	May 04 2005	8"	11mmT6 VF,VS,R,AV,R=F		
36	IC	3568	Cam	Planetary Neb 2+2a	
	Jun 07 2010	12"	7.5mmW PB,VS,R=F. ALMOST STELLAR		
41	NGC	6058	Her H637-3	Planetary Neb 3+2	PF,VS,R,STELLAR
	Nov 13 2007	8"	11mmT6 VF,VS,AV,R=F, NO CENTRAL STAR		
42	IC	4593	Her	Planetary Neb 2+2	
	Jun 03 2005	31"	19mmW VB,VS,R,HISB,R=G		
44	NGC	6153	Sco	Planetary Neb 4	PLN,STELLAR
	Jul 14 2010	12"	7.5mmW PF,CS,R,R=F, NO CENTRAL STAR OBSERVED.		
45	NGC	6210	Her	Planetary Neb 2+3b	PLN,VB,VS,R,DISC
	Jun 19 2004	8"	25mmPL GOOD NIGHT - MEGASTAR		
46	IC	4634	Oph	Planetary Neb 2a+3	
	Jul 31 2005	8"	7.5mmW VVF,VS,AV,R=F		
48	NGC	6302	Sco	Planetary Neb 6	PB,E PF,(SWIFT,TRIP)
	Jul 09 2005	8"	11mmT6 MB,VS,R,R=G		
49	NGC	6309	Oph	Planetary Neb 3b+6	B,S,BET2*VNR
	Jul 03 2005	8"	11mmT6 MF,MS,PATCHY,R=F		
50	NGC	6337	Sco	Planetary Neb 4	RINGNEB,EF,S,AM ST
	Jul 31 2011	12"	7mm TV F,VS,,R=F,SMUDGE WITH TWO FOREGROUND STARS		
51	NGC	6369	Oph H11-4	Planetary Neb 4+2	RINGNEB,PB,S,R
	Jul 09 2005	8"	11mmT6 MB,MS,R,R=G		
52	NGC	6445	Sgr H586-2	Planetary Neb 3b+3	PB,PS,R,GBM,R,*15NP
	Jul 09 2005	8"	11mmT6 MB,ML,MSB,R=G		
54	NGC	6543	Dra H37-4	Planetary Neb 3a+2	PLN,VB,PS,SBMVSN
	Sep 05 2010	12"	5.5mmN PB,PS,R=G, NO CENTRAL STAR NOTED. OIII NOT MUCH HELP - NO ADDITIONAL STRUCTURE		
	Jul 09 2005	8"	11mmT6 VB,VS,OVAL,R=G		
	Apr 13 2005	8"	11mmT6 VB,VS,R,R=G		
55	NGC	6537	Sgr	Planetary Neb 2a+6	PLN,B,S,STELLAR
	Aug 12 2005	8"	7.5mmW VF,VS,AV,R=F		
57	NGC	6563	Sgr	Planetary Neb 3a	PLN,F,L,CE,HAZY EDGE
	Aug 29 2010	12"	7mm TV PF,PS,R=F. NO CENTRAL STAR NOTED		
58	NGC	6572	Oph	Planetary Neb 2a	PLN,VB,VS,R,LHAZY
	Jul 23 2006	8"	7.5mmW CB,CS,R,R=G		
	Jul 31 2005	8"	11mmT6 VB,VS,R,R=F		
59	NGC	6567	Sgr	Planetary Neb 2a+3	PLN,STELL,11M,IN ACL

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59	NGC 6567	Sgr		Planetary Neb 2a+3	PLN,STELL,11M,IN ACL
	Sep 05 2007 8"	11mmT6	VF,PS,NO	CENTRAL STAR,R=F	
62	NGC 6629	Sgr	H204-2	Planetary Neb 2a	PLNORGCL,PB,EES,R
	Jul 09 2005 8"	11mmT6	VF,VS,AV,	R=F	
63	NGC 6644	Sgr		Planetary Neb 2	PLN,STELLAR
	Sep 05 2007 8"	11mmT6	VF,VS,AV,	R=F	
64	IC 4732	Sgr		Planetary Neb 1	
	Sep 05 2007 8"	11mmT6	VF,ES,AV,	NO CENTRAL STAR,R=F	
66	NGC 6720	Lyr M57		Planetary Neb 4+3	RINGNEB,B,PL,CE,LYRA
	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,	NO CENTRAL STAR,R=G	
	Oct 08 2006 1.9"	12x50	PB,S,	R=G	
	Mar 27 2006 8"	19mmW	B,L,R,	R=G	
	Aug 14 2004 8"	11mmT6	F/L W/NEW	FOCUSER, NAGLER, DOBSON	
	Dec 26 2003 8"	25mmPL	Q/M	COLD	
	Oct 10 2003 8"	25mmPL	FIRST	LIGHT - FIRST OBJECT	
68	NGC 6742	Dra	H742-3	Planetary Neb 2c	VF,STELLAR
	Sep 05 2010 12"	5.5mmN	CF,CS,	R=F. NO CENTRAL STAR NOTED. OIII ADDS NOTHING.	
70	NGC 6741	Aql		Planetary Neb 4	PLN,STELLAR
	Jul 03 2005 8"	11mmT6	VF,ML,	PATCH,AV,R=F	
71	NGC 6751	Aql		Planetary Neb 3	PB,S
	Jul 03 2005 8"	11mmT6	MB,ML,	R=G	
72	NGC 6765	Lyr		Planetary Neb 5	F,S,E
	Jun 30 2008 16"	11mmT6	VF,PS,R,	NO CENTRAL STAR,R=F	
73	IC 4846	Aql		Planetary Neb 2	
	Jul 03 2005 8"	11mmT6	VB,VS,	R,R=F	
74	IC 1297	CrA		Planetary Neb	
	Aug 29 2010 12"	7mm TV	PF,VS,	R=F. NO CENTRAL STAR NOTED	
75	NGC 6778	Aql		Planetary Neb 3+3	S,E,ILL-DEFINED DISC
	Aug 31 2008 31"	17mmT4	PB,PS,R,	R=G, NO CENTRAL STAR	
76	NGC 6781	Aql	H743-3	Planetary Neb 3+3	PLN,F,L,R,VSBM DISC
	Sep 13 2009 12"	32mmUW8TH	OBJECT		
	Oct 06 2004 8"	11mmT6	MB,OVAL,	HISB,R=G	
77	NGC 6790	Aql		Planetary Neb 2	PLN,B,ES,STELL=9.5M
	Jul 03 2005 8"	11mmT6	VF,VS,AV,	R=F	
78	MINK 1-70	Aql		Planetary Neb 1	
	Aug 12 2005 8"	7.5mmW	VF,VS,AV,	R=F	

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79	NGC 6803	Aql		Planetary Neb 2a	PLN,STELLAR
	Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F	
80	NGC 6804	Aql	H38-6	Planetary Neb 4+2	CB,S,IR,RRR
	Sep 13 2009	12"	32mmUW9TH	OBJECT	
	Jul 03 2005	8"	11mmT6	VF,ML,AV,R=F	
81	NGC 6807	Aql		Planetary Neb 2	PLN,STELLAR
	Aug 31 2008	31"	17mmT4	CF,CS,R,R=P, NO CENTRAL STAR	
82	HENIZ 2-438	Cyg		Planetary Neb 4	
	Aug 18 2010	12"	26mm	PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER	
83	NGC 6818	Sgr	H51-4	Planetary Neb 4	PLN,B,VS,R
	Jul 09 2005	8"	11mmT6	VB,VS,R,R=G	
84	NGC 6826	Cyg	H73-4	Planetary Neb 3a+2	PLN,B,PL,R,*11M
	Aug 13 2010	31"	17mmT4	B,S,R=F, CENTRAL STAR OBSERVED AND NOTED	
	Nov 13 2007	8"	11mmT6	PB,PS,R,R=G, NO CENTRAL STAR	
	Oct 13 2006	8"	19mmW	VF,PS,R=F	
	Sep 04 2004	8"	11mmT6	FAINT	
85	NGC 6833	Cyg		Planetary Neb 2	PLN,STELLAR
	Aug 13 2010	31"	17mmT4	CF,VVS,R=F. STELLAR IN APPEARANCE	
86	NGC 6853	Vul M27		Planetary Neb 3+2	VB,VL,BIN,IE,DUMBBEL
	Mar 16 2012	18"	17mmAT	2012 M.M.	
	Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES	
	Aug 31 2010	12"	17mmAT	NIGHT ENDING EYE CANDY	
	Mar 08 2010	12"	26mm	M.M. 2010 MANUAL SETTING CIRCLES	
	Sep 13 2009	12"	32mmUW1ST	OBJECT WITH 12" SKYWATCHER & MANUAL SETTING CIRCLES	
	Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
	Sep 01 2008	31"	17mmT4	VB,CL,R=E. NO CENTRAL STAR	
	Aug 12 2006	1.9"	12x50	F,S,R,R=F	
	Mar 27 2006	8"	19mmW	B,L,R=G, LONG	
	Aug 14 2004	8"	11mmT6		
	Dec 26 2003	8"	25mmPL	Q/M COLD	
87	NGC 6884	Cyg		Planetary Neb 2b	PLN,STELLAR
	Jul 23 2006	8"	11mmT6	VF,VS,AV,R=F	
89	NGC 6881	Cyg		Planetary Neb 2a+3	PLN,STELLAR
	Aug 13 2010	31"	17mmT4	PF,VS,R=P. STELLAR IN APPEARANCE - NO CENTRAL STAR!	
	Jul 27 2009	16"	7.5mmW	VF,VS,R=F, NO VISIBLE CENTRAL STAR	
90	NGC 6886	Sge		Planetary Neb 2+3	PLN,STELLAR=10M
	Sep 01 2008	31"	17mmT4	PB,VS,R=F. NO CENTRAL STAR	
91	NGC 6891	Del		Planetary Neb 2a+2b	PLN,STELLAR=9.5M
	Sep 25 2006	31"	19mmW	PB,L,R,R=G	
	Aug 12 2005	8"	7.5mmW	MF,VS,OVAL,R=F	
92	NGC 6894	Cyg	H13-4	Planetary Neb 4+2	RINGNEB,F,S,VVLE

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92	NGC	6894	Cyg	H13-4	Planetary Neb 4+2	RINGNEB,F,S,VVLE
	Aug 13 2010	31"	17mmT4	F,PS,R=F.	OVAL PATCH - NO CENTRAL STAR NOTED	
	Jul 27 2009	16"	11mmT6	PF,PS,ROUND,	NO VISIBLE CENTRAL STAR,R=F	
93	IC	4997	Sge		Planetary Neb 1	
	Sep 01 2008	31"	17mmT4	PB,ES,R=F.	NO CENTRAL STAR	
94	NGC	6905	Del	H16-4	Planetary Neb 3+3	PLN,B,PS,R,4S*NR
	Aug 13 2007	31"	31mmT5	PF,CS,R,R=G,	CENTRAL STAR NOT VISIBLE	
	Aug 09 2005	8"	11mmT6	MB,ML,PATCHY,	MSB,R=G	
95	NGC	7008	Cyg	H192-1	Planetary Neb 3	CB,L,E45,R,**ATT
	Aug 02 2005	8"	19mmW	FB,FL,R=G,	BEHIND STAR	
96	NGC	7009	Aqr	H1-4	Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
	Oct 29 2006	8"	19mmW	F,VS,OVAL,	R=F	
	Sep 27 2005	31"	17mmT4	VB,VL,OVAL,	HISB,R=G!!	
	Jul 08 2004	31"	17mmT4	GREAT IN THE BIG ONE!		
	Jul 08 2004	8"	25mmPL	SMALL IN 8_DOBSON		
97	NGC	7026	Cyg		Planetary Neb 3a	PB,BIN,PLN
	Aug 24 2005	8"	11mmT6	MF,MS,PATCHY,	AV,R=F	
98	NGC	7027	Cyg		Planetary Neb 3a	PLN,STELLAR=8.5M
	Aug 24 2005	8"	7.5mmW	VB,VS,R,R=F		
100	NGC	7048	Cyg		Planetary Neb 3b	PF,PL,DIF,IR,VLBM
	Aug 24 2005	8"	7.5mmW	VF,ML,PATCHY,	AV,R=F	
101	PEASE	1	Peg		Planetary Neb 1	
	Sep 27 2005	31"	17mmT4	VB,VS,R=F		
102	IC	5117	Cyg		Planetary Neb 2	
	Jul 23 2006	8"	11mmT6	F,VS,R,AV,	R=F	
104	NGC	7094	Peg		Planetary Neb 4	*IN EEF NEBY,VDIFFIC
	Sep 05 2010	28"	26mm	PF,PS,R,R=F,OII,	NO CENTRAL STAR NOTED	
	Aug 29 2010	12"	7mm TV	VF,CS,AV,R=F.	NO CENTRAL STAR NOTED.	
106	NGC	7293	Aqr		Planetary Neb 4+3	PF,VL,E OR BIN
	Sep 05 2010	12"	11mmT6	B,PS,R=G.	CENTRAL STAR NOT NOTED.	OIII FILTER ADDS DETAIL.
	Nov 09 2004	8"	11mmT6	NICE - ALMOST ROUND PATCH! LARGE.		
107	NGC	7354	Cep	H705-2	Planetary Neb 4+3b	PLN,B,S,R,PGVLBM
	Sep 07 2005	8"	11mmT6	MB,ML,R,MSB,	R=G	
108	NGC	7662	And	H18-4	Planetary Neb 4+3	PLN ORRING,VB,PS,R
	Nov 21 2006	8"	11mmT6	VB,PS,OVAL,	NO CENTRAL STAR,R=G	
	Aug 23 2004	8"	9mm	SMALL,FAINT. LOOK @ AGAIN LATER!		

Total: 82