

Astronomical League

Planetary Nebula Observing Club

1	NGC 40	Cep	H58-4	Planetary Neb 3b+3	F,VS,R,VSMBM,*12SP
	Sep 02 2008 31"	17mmT4	PB,ML,OVAL,LAYERS OF RINGS DET,BRT C*,GREENISH,F* ON EDGE,OIII NO HELP,R=E		
	Jul 09 1983 12.5"	12mm	MB,PS,BNEC,BRT CENTRAL *,SHARP EDGES,R		
	Aug 13 1982 12.5"	16mm	BG COLOR,MF,PS,R,BRT CENTRAL *,(10TH MAG),SIM TO BLINKING PL,F*W SIDE		
	Aug 13 1982 12.5"	7mm	ELONGATION STARTING TO SHOW UP		
2	NGC 246	Psc	H25-5	Planetary Neb 3b	VF,L,4*IN DIF NEB
	Sep 02 2008 31"	17mmT4	VF,ML,OVAL,OIII HELPS GRTLY,TRANSLUCENT BUBLE,C*13MAG,BRT RINGS IN EDGE,R=G		
	Sep 27 1981 12.5"	16mm	DIF,BLUE GREEN,MB,BL,SOURROUNDS 4 *S, 1 * S,PATCHY OVALNESS		
	Oct 31 1980 12.5"	24mm			
	Oct 29 1980 8"	24mm			
	Sep 18 1980 12.5"	24mm	3*S IN NEB,ONE MOST LIKELY CENTRAL *		
3	NGC 650	Per	M76 H193-1	Planetary Neb 3+6	VB,P OF DNEB
	Sep 02 2008 31"	17mmT4	VB,VL,BRT HOUR GLASS CENTRAL REGION,FT WHISPS OF NEB SIDES,OIII NO HELP,F* EDGE OF HOUR GLASS,NO C* DET,R=E		
	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			
4	IC 1747	Cas	Planetary Neb 3b		
	Oct 07 2010 31"	12mmT4	PB,MS,R,DARK HOLE IN CENTER,SLIGHTLY BRTER ONE SIDE,OIII DOESNOT HELP MUCH,NO C*,R=G		
	Oct 07 2010 31"	17mmT4	MB,VS,R,BRT BLUE,CENTRAL REGION DARK,HOLE,NO C*,OIII HELPS SOMEWHAT,ONE SIDE BRTER THAN OTHER,R=G		
	Sep 18 2004 31"	17mmT4	PB,MS,W/OIII,R,DARK CENTER SUSP,BRT R BLUEISH BALL,R=E		
5	ABELL 4	Per	Planetary Neb		
	Oct 07 2010 31"	12mmT4	PF,PS,R,UB,2 PGC GAL CLOSE BY,OIII DOESNOT HELP MUCH,17MM - COMP GAL HARD TO DET,R=F		
	Feb 05 2005 31"	17mmT4	DIF,VF,MS,R,OIII,GREENISH,SOME PATCHY AREAS DET,PAIR=PGC10427,R=G		
6	IC 289	Cas	Planetary Neb 4+2		
	Oct 07 2010 31"	12mmT4	MB,ML,C* JUST BARELY VISIBLE,APPROX 17 MAG,NEB PATCHY,R=G		
	Oct 07 2010 31"	17mmT4	MB,SM,R,UB,NO C*,OIII HELPS LITTLE,NEB PATCHY NOT ROUND,R=G		
	Sep 18 2004 31"	17mmT4	MF,ML,R,UB,W/OIII,GREENISH,DARK PATCH IN CENTER SUSP,NO CENTRAL *,R=E		
7	NGC 1360	For	Planetary Neb 3		*8IN B,LNEB,E NS
	Dec 28 2008 31"	17mmT4	PF,PL,EL.C*11M,OIII HELPS A LOT,ONE HALF BRTER THAN OTHER,SOMEWHAT HISB,R=G		
8	IC 351	Per	Planetary Neb 2a		
	Oct 07 2010 31"	12mmT4	MB,VS,R,BNUC,BRT BLUE,SUDDENLY MBM,BRT NUC,OIII BRIGHTENS NEB,HELPS LITTLE,R=G		
	Dec 20 2003 31"	17mmT4	PB,MS,R,VHISB,BRT BLUE,NO CENTRAL *,R=G		
9	IC 2003	Per	Planetary Neb 2		

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9	IC	2003	Per	Planetary Neb 2	
	Oct 07 2010	31"	12mmT4	MB,VS,R,NO C*,ONE HALF NEB BRTER THAN OTHER,OIII HELPS LITTLE,R=G	
	Feb 05 2005	31"	17mmT4	OIII,PB,VS,R,BRT BLUE,BRT AREA ON ONE SIDE,PAIR=MAC,R=E	
10	NGC	1501	Cam	H53-4 Planetary Neb 3	PLN,PB,PS,VLE,1'DIAM
	Oct 09 2010	31"	17mmT4	MB,ML,R,C* 13TH MAG,GRAYISH GREEN COLOR,VERY R,SHARP EDGES,DARKER INNER RING,OIII HELPS LITTLE,C* GOES AWAY,R=E	
	Oct 03 1981	12.5"	12mm	VERY R,UB,F CENTRAL * 14TH MAG DET,GREEN,DIF,MF,MS	
11	NGC	1514	Tau	H69-4 Planetary Neb 3+2	*9IN NEB3'DIAM
	Oct 09 2010	31"	17mmT4	PB,PL,OVAL,OIII HELPS BRING OUT MORE DETAIL IN NEB,DARK PATCHES IN NEB,R=E	
	Oct 09 2010	31"	17mmT4	PB,PL,OVAL,R,C* APPROX 9TH MAG,LARGE NEB,SPRIAL IN STR,DARK INNER RING BROKEN,R=E	
	Dec 25 1984	12.5"	16mm	PB,ML,BRT CENTRAL *,LOC BETWEEN 2B**S.LARGE BALL OF NEBULA,R,MOD HISB	
12	NGC	1535	Eri	H26-4 Planetary Neb 4+2c	PLN,VB,S,R,PS,VSBM,R
	Dec 28 2008	31"	17mmT4	VB,ML,R,C*12M,OIII BRT INNER RING,R HALO,HISB MIDDLE, OIII HELPS SOMEWHAT,R=E	
	Oct 30 1981	12.5"	12mm	BLUE,MB,PL,BRT MIDDLE,12MAG CENTRAL *	
	Oct 31 1980	12.5"	24mm	SIM IN COLOR TO SATURN NEBULA,FIND 1537 FIRST,GREAT!!!	
13	SH2	216	Per	Planetary Neb 3	
	Sep 19 2012	36"	31mmT5	W/OIII,SCANNED AREA ESPECIALLY EAST END OF SUSPECTED OBJ,AT MOST COULD ONLY SUSP SOME HINT OF EXTREMELY FAINT GLOW JUST SLIGHTLY BRTER THAN BACKGROUND,AFTER SEVERAL FOV'S NOTICED SOME DARKENING OF BACKGROUND.SUSP,R=P	
14	J	320	Ori	Planetary Neb 2+4	
	Dec 28 2008	31"	17mmT4	PF,VS,NO C*,VS UB BALL,BLUEISH,OIII DOESN'T HELP MUCH,R=G	
	Oct 04 2005	31"	17mmT4	VB,PS,R,W/OIII,BRT BLUE,SOME FAINT NEB DET OUTSIDE R BALL,R=G	
15	IC	418	Lep	Planetary Neb 4	
	Dec 28 2008	31"	17mmT4	VB,PS,R,BRT C*10M,GRANDULAR NEB,C* GETS LOST IN NEB WITH AV,OIII HELPS LTTLE,R=G	
	Oct 31 1980	12.5"	9mm	BRT BLUE,NICE!!!	
16	NGC	2022	Ori	H34-4 Planetary Neb 4+2	PLN,PB,VS,VLE
	Dec 28 2008	31"	17mmT4	MB,ML,R,PATCH,VF C* WITH AV,EDGES FRAILED,OIII DOESN'T HELP MUCH,R=G	
	Dec 30 1983	12.5"	12mm	MF,PS,NO CENTRAL * DET,R,UB,LINE OF F*S OFF TO BOTH SIDES	
	Oct 31 1980	12.5"	24mm	LOOKS LIKE PALE GREY *	
	Sep 10 1980	12.5"	24mm		
	Sep 10 1980	12.5"	32mm	EASILY DET,NICE	
17	IC	2149	Aur	Planetary Neb 3b+2	
	Dec 28 2008	31"	17mmT4	PB,MS,OVAL,BRT C*,HISB,BRT BLUE,W/OIII,NO C*,NEB ELONG,R=G	
	Feb 17 2004	31"	17mmT4	DIF,PB,MS,ELONG,OVAL,MHISB,OIII,NO CENTRAL *,UB CENTER,FAINT THIN HALO,R=E	
18	IC	2165	CMa	Planetary Neb 3b	
	Dec 28 2008	31"	17mmT4	MB,PS,R,UB,BRT BLUEISH BALL, NO C*,OIII DOESN'T HELP MUCH,R=G	
	Dec 19 2006	31"	17mmT4	VB,PS,R,BRT BLUE BALL,NO CENTRAL *,W/OIII NEB IS BRIGHTER,R=G	
19	J	900	Gem	Planetary Neb 3b+2	
	Dec 28 2008	31"	17mmT4	PB,VS,R,UB,NO C*,VS BRT BLUE BALL,* CLOSE,OIII MAKE NEB BRTER,R=G	
	Feb 17 2004	31"	17mmT4	DIF,PB,MS,BRT BLUE,* CLOSE BY,CENTRAL BRIGHTNESS DET,R=G	
	Feb 17 2004	31"	17mmT4	PB,MS,R,HISB,FAINT HALO AROUND OBJECT DET,OIII,R=E	
20	MINK	1-7	Gem	Planetary Neb 2	

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20	MINK	1-7	Gem	Planetary Neb 2		
	Dec 28 2008	31"	17mmT4	MB,VS,R,UB,BRT BLUEISH,NO C*,OIII DOESN'T HELP MUCH,R=G		
	Feb 17 2004	31"	17mmT4	DIF,VF,MS,R,BRT BLUE,R NUC,NO CENTRAL *,FT NEB AROUND CENTRAL REGION,OIII,R=G		
21	NGC	2346	Mon	H65-4	Planetary Neb 3b+4	*10AFF W/ S,VF,NEB
	Dec 28 2008	31"	17mmT4	VB,PL,R,HISB,BRT C*11,BRT GREENISH,MORE NEB WITH AV,OIII DOESN'T HELP MUCH,R=E		
	Oct 05 2002	12.5"	9mmT6	PB,PS,BNUC,VBM,CENTRAL * APPROX 8 MAG,R,HISB,BLUE GREEN CENTRAL REGION		
22	NGC	2371	Gem	H316-2	Planetary Neb 3a+2	B,S,R,BMN,P OF DNEB
	Dec 28 2008	31"	17mmT4	PB,PL,C*15,2 HALVES,LOBS BOTH SIDES,SHISB,HOUR GLASS SH,OIII HELPS V LITTLE,R=E		
	Feb 21 1984	12.5"	12mm	SAME		
	Feb 21 1984	12.5"	12mm	SAME,SOUTH PART BRT THAN N,CENTRAL * DET,VF,VS		
	Oct 23 1982	12.5"	12mm	MF,MS,2 PARTS EASILY DET,W SIDE BRT,BOTH MOD HISB,NSS		
	Oct 23 1982	12.5"	12mm	SEE 2371		
	Dec 03 1980	12.5"	24mm			
	Oct 31 1980	12.5"	16mm	DOUBLE NEBULA,2 NEB ON TOP OF EACH OTHER,NICE!!		
23	ABELL	21	Gem	Planetary Neb		
	Dec 28 2008	31"	17mmT4	VDIF,PF,VL,L DIF AREA OF NEB,PATCHY IN AREAS,OIII HELPS SOMEWHAT,NEB BRTER,R=F		
	Jan 24 2004	31"	24mmTP	DIF,PF,VL,UB,WITH OIII,PATCHY AREAS IN 2 HALVES CENTERED AROUND *,R=G		
24	NGC	2392	Gem	H45-4	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
	Nov 22 2006	12.5"	12mmT4	EB,VL,BRT CENTRAL * GOES AWAY WITH AV,BRT BLUE BALL,PATCHY AREAS DET OUTER,R=E		
	Dec 04 2004	31"	17mmT4	VB,VL,WITH OIII,CENTRAL * EASY,RINGS AROUND CENTRAL *,DARK RINGS BETWEEN,OUTTER NEBULA LOOKS MATTED,BRIGHT BLUE,BEST EVER SEEN TO DATE,R=E		
	Feb 21 1984	12.5"	12mm	MB,PS,ESKIMO NUBULA,CENTRAL * EASILY DET,PATCHED IN NEB DET,FORMS TRI W2*S		
	Oct 23 1982	12.5"	12mm	CENTRAL * DET,SOME DARK AREAS IN GAS DET		
	Oct 16 1982	12.5"	12mm	BLUE,MF,VS,R,UB,NO CENTRAL *		
	Oct 31 1980	12.5"	24mm	ESKIMO NEBULA,NON STELL,GREAT!!		
25	NGC	2438	Pup	H39-4	Planetary Neb 4+2	PLN,PB,PS,VLE,R
	Dec 28 2008	31"	17mmT4	VB,ML,R,2*S INSIDE CENT RING,INNER AREA DKER,MOD HISB INNER RING,OIII HELPS,R=E		
	Mar 19 2004	12.5"	12mmT4	W/OIII. PLANETARY IN M46,RING SHAPE,CENTRAL DARKNESS,DONUT APPEARANCE,R=E		
	Mar 27 1982	12.5"	12mm	MF,PS,24MM-NO CENTRAL * DET,R,UB,12MM-CENTRAL * DET,UB,R,SOME DARK PATCHES SUSP		
	Dec 03 1980	12.5"	24mm	PLANETARY IN M46,GREAT!!		
26	NGC	2440	Pup	H64-4	Planetary Neb 5+3	PLN,CB,NOT VWELL DEF
	Dec 28 2008	31"	17mmT4	VB,PL,EL,NO C*,IRR,2 HALVES/LOBS,HISB MIDDLE,F OUT SHELL,OIII HELP DETAIL,R=E		
	Dec 03 1980	12.5"	24mm	SIM TO SATURN NEBULA,BRT BLUE,SLIGHT DIF NEB AROUND OBJECT		
27	NGC	2452	Pup	Planetary Neb 4+3	PLN,F,S,LE,AM60*	
	Dec 28 2008	31"	17mmT4	MB,MS,OVVAL,DARK AREA IN NEB DET,NO C*,OIII DOESN'T HELP MUCH,GREENISH COLOR,R=G		
	Nov 22 2006	12.5"	12mmT4	MF,VS,R,PAIR=2453,S BLUEISH BALL,OIII HELPS SOMEWHAT,R=G		
	Dec 03 1980	12.5"	24mm	NOT MUCH SURFACE BRT,PAIL GREY,OVVAL,PATCH,BESIDE CLUSTER - 2453		
28	JNER	1	Lyn	Planetary Neb 4		
	Mar 06 2010	31"	17mmT4	MF,VL,PATCH,2 AREAS OF PATCHY NEB DET,C*VF,SEVERAL VF*S IN CENTER REGION,OIII HELPS ALOT,MUCH MORE NEB,2 BRT HALVES,F NEB IN AREA,R=F		
	Apr 03 2005	31"	17mmT4	W/OIII,DIF,VF,PL,OVVAL,R,PATCH,NO CENTRAL *,LARGE AREA OF NEB DET,R=G		
29	NGC	2610	Hya	H35-4	Planetary Neb 4+2	F,S,ATTTO*13,*7NF

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29	NGC 2610	Hya	H35-4	Planetary Neb 4+2	F,S,ATTTO*13,*7NF
	Dec 28 2008 31"	17mmT4	PB,ML,OVAL,UB,B*	IN FOV,* IN EDGE,VF C*15,OIII DOESN'T HELP MUCH,R=G	
	Nov 22 2006 12.5"	12mmT4	MF,PS,R,F*	ON EDGE OF NEB,OIII HELPS OUT SLIGHTLY,R=F	
	Mar 29 2006 31"	17mmT4	DIF,MB,ML,R,UB,*	IN EDGE,W/OIII,PATCHY,DARK AREAS,OVAL WITH BRT EDGES,R=G	
30	MINK 3-6	Pyx		Planetary Neb 2a	
	Dec 28 2008 31"	17mmT4	MB,PS,OVAL-R,UB,NO C*	BRT BLUEISH BALL,OIII HELPS LITTLE,MORE BLUE,R=G	
31	NGC 2818	Pyx		Planetary Neb PN	PLN,PB,PL,R,VGLBM
	Dec 28 2008 31"	17mmT4	MB,MS,UB,NO C*	NEB INSIDE CLUSTER CR 206,W/OIII,NEB HAS PATCHY AREAS,R=G	
32	NGC 3132	Vel		Planetary Neb 4+2	PLN,VB,VL,LE*9M
	Dec 28 2008 31"	17mmT4	VB,PL,OVAL,BRT C*	DARK INNER RING,BRT BLUEISH GREEN,8 DEG ABOVE H,OIII HELPS,R=E	
33	NGC 3242	Hya	H27-4	Planetary Neb 4+3b	PLN,VB,LE147,45"D
	Dec 28 2008 31"	17mmT4	VB,PL,R,HISB,C*13,OUT SHELL,BRTER INNER RING W/TAP SIDES,BRT BLUEISH,OIII HL,R=E		
	Feb 12 1983 12.5"	16mm	MB,PS,R,BLUE FUZZY EDGES,UB,NO CENTRAL *		
	Dec 03 1980 12.5"	24mm	GHOST OF JUPITER,PAIL GREENISH COLOR,GREAT!!		
34	NGC 3587	UMa M97		Planetary Neb 3a	PLN,VB,VL,R,VVG,VSBM
	Mar 08 2013 36"	17mmT4	MESSIER MARATHON 2013		
	Mar 16 2009 31"	17mmT4	EB,EL,C* DET APPROX 15TH MAG,DARK PATCHES,BROKEN EDGES,GREYISH GREEN,R=E		
	Mar 16 2009 31"	17mmT4	EB,EL,W/OIII,LOOSE C*,DOESNOT HELP MUCH,LITTLE MORE DARK PATCHES DET,R=E		
	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		
35	NGC 4361	Crv	H65-1	Planetary Neb 3a+2	VB,L,R,VSMBMN,R
	Mar 16 2009 31"	17mmT4	VB,EL,BRT C*,SQUARE SHAPE NEB,GREENISH,W/OIII,NEB MORE PRONOUNCED,HELPS A LITTLE,NEB MORE SQUARE LIKE,R=E		
	May 03 1981 12.5"	16mm	BLUE GREEN,PB,PL,CENTRAL * APPROX 11MAG DET		
36	IC 3568	Cam		Planetary Neb 2+2a	
	Mar 17 2009 31"	17mmT4	VF,ML,R,F* OFF SIDE,BRT BLUEISH,GMB,BRT CENT REG,OUTTER SHELL GRANDULAR,W/OIII,DOESNOT HELP MUCH,R=E		
	Feb 04 2005 31"	17mmT4	PB,ML,R,BNUC,BRT BLUE,BM,HALO AROUND CENTRAL NUC,F* OFF ONE EDGE,R=E		
37	ABELL 35	Hya		Planetary Neb 3a	
	Mar 20 2009 31"	17mmT4	C* APPROX 9TH MAG,W AND W/O OIII CANNOT DETECT ANY NEB,R=P		
	Mar 17 2009 31"	17mmT4	LOC GOOD,SCAN WITH AND WITHOUT OIII,ON MERIDIAN,GOOD SKIES,NO NEB DET,R=P		
38	ABELL 36	Vir		Planetary Neb	
	Mar 20 2009 31"	17mmT4	EF,PL,C* 10TH MAG,F NEB DET AROUND C *,NO NEB OUTTER SHELL,OIII DOESNOT HELP,R=P		

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38	ABELL 36	Vir	Planetary Neb	
	Mar 17 2009 31"	17mmT4	BRT BLUEISH FUZZY BALL,NO OUTTER SHELL OF NEB DET,OIII DOESN'T HELP,R=F	
39	NGC 5873	Lup	Planetary Neb 2	PLN,STELLAR=9.5MAG
	Mar 20 2009 31"	12mmT4	MB,VS,R,V SM BLUEISH BALL,NO C*,VF* OFF ONE SIDE,OIII HELP LITTLE,R=G	
40	NGC 6026	Lup	Planetary Neb 4	F,S,R,GPMBM,TRI* NP
	Mar 20 2009 31"	17mmT4	MF,MS,R,B CENT REGION,C* 13TH MAG,W/OIII,C* VERY DIM,MORE NEB DET,R BALL,R=F	
41	NGC 6058	Her	H637-3 Planetary Neb 3+2	PF,VS,R,STELLAR
	Mar 20 2009 31"	17mmT4	MF,MS,R,B C* 12TH MAG,GRANULAR NEB,OIII KNOCKS OUT C*,DOESNOT HELP MUCH,R=F	
	Sep 06 2002 12.5"	16mm	PB,ML,R,DIF HALO,BM	
	Sep 06 2002 12.5"	9mmT6	BM,MOD HISB,CENTRAL *	
42	IC 4593	Her	Planetary Neb 2+2	
	Apr 16 2009 31"	17mmT4	VB,MS,R,C* 10TH,BRT BLUEISH GREEN BALL,BRT CENT REGION,GRANDULAR NEB AROUND C*,OIII KNOCKS OUT C*,DOESNOT HELP MUCH,R=E	
43	NGC 6072	Sco	Planetary Neb 3a	PF,R,VGV LBM,R
	May 17 2009 31"	17mmT4	PB,PL,NO C*,R,UB,FRAILED EDGES,OIII HELPS NEB A LITTLE,R=G	
44	NGC 6153	Sco	Planetary Neb 4	PLN,STELLAR
	May 17 2009 31"	17mmT4	VB,ML,R,UB,HISB,NO C*,BRT BLUEISH GREEN,OIII HELPS,R=E	
45	NGC 6210	Her	Planetary Neb 2+3b	PLN,VB,VS,R,DISC
	May 17 2009 31"	17mmT4	VB,ML,C* APP 12TH MAG,INNER REGION GRANULAR,F WHISPS OF NEB BEYOND BALL,BRT B-G,BRT INNER REGION AROUND C*,OIII SHOWS MORE FAINT NEB AROUND BALL,R=E	
	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"	9mm	FIRST SIGHTING,BRT BLUE WITH 9MM AND NEBULA FILTER	
46	IC 4634	Oph	Planetary Neb 2a+3	
	May 17 2009 31"	17mmT4	PB,PS,BRT BLUEISH BALL,NO C*,MEB ELONG W/TAPPERED ENDS,OIII DOES NOT HELP,R=G	
	Jun 19 2004 31"	17mmT4	VF,PS,R,UB,WITH OIII,BRT BLUE,TAPPERED ENDS,NO CENTRAL *,R=E	
47	MINK 2-9	Oph	Planetary Neb ?+6	
	May 17 2009 31"	12mmT4	MB,PS,ELONG,VSMALL CENT REGION OR C* APPROX 12TH MAG,NEB ELONG (BAR) FROM C*,LOOKS LIKE EDGE ON GAL W/VERY SNUC,OIII DOES NOT HELP,R=F	
48	NGC 6302	Sco	Planetary Neb 6	PB,E PF,(SWIFT,TRIP)
	May 18 2009 31"	17mmT4	VB,VL,ELONG,BRT BLUE-GREEN,IRR IN SHAPE,HISB,BRT CENTRAL REGION AROUND C*,BM,NO C* JUST BRT REGION,TAPPERED ENDS,ONE SIDE THINNER AND THICKER THAN OTHER,OIII HELPS,NEB GRANULAR BROKEN IN PARTS,NEB S-SHAPE,R=E	
	May 28 2008 31"	17mmT4	VB,VL,ELONG,HISB,B CENTRAL * REGION,PATCHY AREAS OF NEB DET,BRT AREAS,W/OIII,MORE DETAIL IN NEB,BRT GREEN,EXCELLENT,R=E	
49	NGC 6309	Oph	Planetary Neb 3b+6	B,S,BET2*VNR
	May 18 2009 31"	17mmT4	VB,ML,BRT BLUEISH,HISB,F* ON END,VF* OFF SIDE TOUCHING,NO C*,BOX LIKE NUC REGION,FAINT NEB EXTENDED OFF SIDES,RECTANGLE SHAPE,OIII DOESNOT HELP MUCH,R=E	
	Jul 21 1984 12.5"	12mm	VF,ES,DOUBLE * TO W,F* JUST N SIDE,BRT BAR N-S DET,NSS,MHISB	
	Jun 04 1981 12.5"	16mm	WITH 2X BARLOW,BLUE,BESIDE F*,NO CENTRAL * DET	
50	NGC 6337	Sco	Planetary Neb 4	RINGNEB,EF,S,AM ST
	May 18 2009 31"	17mmT4	MB,ML,TRANSLUCENT BALL WITH C* OFF CENTERED,APPROX 14TH MAG,PATCHES OF NEB IN BALL DET,OUTTER RING BRTER,OIII HELPS,LIKE M57,KNOCKS OUT C*,R=G	

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51	NGC 6369	Oph	H11-4	Planetary Neb 4+2	RINGNEB,PB,S,R
May 18 2009	31"	17mmT4	MB,ML,R,RESEMBLES M57,C* APPROX 15TH MAG,RING WITH FT NEB INSIDE,SOMEWHAT BRIGHTER AROUND C*,OIII DOESNOT HELP MUCH,NEB SLIGHTLY BRIGHTER,R=E		
Jun 04 1981	12.5"	24mm	GREEN,MF,MS,NO CENTRAL * DET		
Jun 18 1980	12.5"	9mm	GOOD,LOC BESIDE F*,DISK DET		
52	NGC 6445	Sgr	H586-2	Planetary Neb 3b+3	PB,PS,R,GBM,R,*15NP
May 18 2009	31"	17mmT4	VB,PL,HISB,LOOKS LIKE A BIG MAC SANDWITCH,2 HAMBURGER BUNS,NO C*,SEPERATED IN 2 HALVES,BOX-SQUARE SHAPE,OIII, OUTER SIDES OF NEB BRTER,R=E		
Sep 20 1984	12.5"	12mm	DIF,MF,PS,F* NW EDGE,B* TO W,PATCHY		
Aug 13 1982	12.5"	16mm	PF,VS,BLUE GREEN,F* ON NW EDGE,OVAL-PATCHY,SBM,PAIR/6440		
53	IC 4670	Sgr	Planetary Neb PN		
Aug 15 2009	31"	17mmT4	MB,VS,R,C* 15TH,GRYISH,OIII,NEB BRTER,NOT MUCH NEB AROUND C*,R=F		
54	NGC 6543	Dra	H37-4	Planetary Neb 3a+2	PLN,VB,PS,SBMVS
May 19 2009	31"	17mmT4	VB,VL,BRT GREENISH,C* 10TH MAG,BRT INNER CORE,GRANULAR BALL,VF WHISPS OF NEB AROUND BALL,OIII BRINGS OUT OUTER HALO ONLY,PAIR=IC4677,R=E		
Mar 26 2006	31"	17mmT4	VF,PL,BRT BLUE,CENTRAL *,DETAIL IN NEB,DARK INNER RING,PAIR=IC4677,R=E		
Jun 23 2003	12.5"	9mmT6	VB,ML,ELONG,OVAL,VERY HISB,BRT NUC,SLIGHTLY ELONG,FAINT HALO AROUND GAL,R=E		
Jul 22 1981	12.5"	16mm	BLUEISH IN COLOR,PB,MS,NO CENTRAL * DET		
Jul 14 1980	12.5"	24mm			
Jul 11 1980	12.5"	24mm			
Jun 20 1980	12.5"	24mm			
55	NGC 6537	Sgr	Planetary Neb 2a+6		PLN,B,S,STELLAR
May 19 2009	31"	12mmT4	PB,PS,UB,NO C*,BLUEISH GREEN,SMALL BALL,OIII DOESNOT HELP,R=G		
56	NGC 6565	Sgr	Planetary Neb 4		PLN,STELLAR
May 19 2009	31"	12mmT4	PB,VS,UB,NO C*,GREENISH-BLUE BALL,OIII DOESNOT HELP MUCH,R=G		
Sep 21 1984	12.5"	12mm	VF,VS,3F*S TO N IN A LINE,BLUEISH COLOR,R,UB		
57	NGC 6563	Sgr	Planetary Neb 3a		PLN,F,L,CE,HAZY EDGE
May 19 2009	31"	17mmT4	PB,PL,UB,NO C*,GREENISH,PARTS AROUND EDGE NOT WELL DEFINED,OIII MORE NEB,R=E		
Sep 21 1984	12.5"	12mm	VDIF,VF,VS,VF* OFF TO W,PATCHY-R,UB		
58	NGC 6572	Oph	Planetary Neb 2a		PLN,VB,VS,R,LHAZY
May 19 2009	31"	17mmT4	VB,ML,BRT BG (TORQUOISE),UNIQUE COLOR,BM,OIII LG HALO NEB AROUND BALL,R=E		
Jun 27 2003	12.5"	9mmT6	EB,PL,BRT BLUE,FAINT HALO AROUND CENTRAL REG,OUTTER SHELL DET OIII FILTER,R=E		
Sep 21 1984	12.5"	12mm	PB,PS,BRT R BALL,CENTRAL * NOT DET,UB,HISB		
Jun 04 1981	12.5"	24mm	BLUE,MB,PS		
Jun 18 1980	12.5"	24mm	LOOKS LIKE BRT * AT TIP OF TRI		
Jun 18 1980	12.5"	24mm	WITH BARLOW,LOOKS LIKE B* AT TIP OF TRI		
Jun 18 1980	12.5"	9mm	VERY BRT BLUE WITH BARLOW AND 9MM,SHAPE EASILY DET		
Jun 18 1980	12.5"	9mm	WITH BARLOW SHAPE EASILY DET		
59	NGC 6567	Sgr	Planetary Neb 2a+3		PLN,STELL,11M,IN ACL
May 19 2009	31"	12mmT4	MB,VS,UB,VF* OFF TO SIDE,RICH * FOV,VF C* SUSP,OIII DNOT HELP,BLUEISH SBALL,R=F		
Sep 21 1984	12.5"	12mm	DIF,MF,MS,R,BRT BLUE,ALMOST STELL		
60	NGC 6578	Sgr	Planetary Neb 2a		PLN,STELLAR=13MAG
May 19 2009	31"	12mmT4	PB,MS,,VF* OR PIECE OF NEB OFF ONE SIDE,VF C* APP 15TH SUSP,GBM,OIII DNH,R=G		
Sep 12 2007	31"	17mmT4	W/OIII,PB,MS,R,BRT MIDDLE,BLUEISH BALL,HISB MIDDLE,* OFF SIDE,FT HALO AROUND,R=G		

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61	NGC 6620	Sgr		Planetary Neb 2b	PLN,STELLAR
	May 19 2009 31"	12mmT4	MB,VS,SOME BRTING MIDDLE DET,NO C*,GREENISH,OIII HELPS BRTEN NEB,R=F		
	Sep 05 2007 31"	17mmT4	MB,VS,GREENISH BALL,SMBM,OIII DOESN'T HELP MUCH,R=F		
62	NGC 6629	Sgr	H204-2	Planetary Neb 2a	PLNORGCL,PB,EES,R
	May 19 2009 31"	12mmT4	MB,PS,R,C* APPROX 13TH MAG,BLUEISH-GREEN,BRT TOWARDS MIDDLE,OIII DNH,R=G		
	Aug 13 1982 12.5"	7mm	MF,VS,BETWEEN 2*S IN FIELD OF VIEW,HARD TO LOC,R,BLUE GREEN COLOR		
63	NGC 6644	Sgr		Planetary Neb 2	PLN,STELLAR
	May 19 2009 31"	12mmT4	MB,VS,R,UB,BLUEISH,NO C*,OIII BRIGHTENS NEB,R=G		
	Sep 05 2007 31"	17mmT4	W/OIII,PB,MS,R,BRT BLUE BALL,STANDS OUT WELL,W/O OIII,SOME FNEB AROUND CREG,R=G		
64	IC 4732	Sgr		Planetary Neb 1	
	May 19 2009 31"	12mmT4	MF,ES,R,HARD TO DET FROM FOV *S,NO C*,OIII DOES NOT HELP,BLUEISH BALL,R=P		
	Sep 12 2007 31"	17mmT4	PF,PS,R,VERY SM BRT CENTER WITH F NEB AROUND CENTRAL *,OIII DOESNOT HELP,R=F		
65	IC 4776	Sgr		Planetary Neb 2a	
	Aug 15 2009 31"	17mmT4	MB,VS,R,UB,NO C*,BRT BLUEISH BALL,OIII,STANDS OUT OF FOV,BKGROUND *S FADE,R=F		
	Sep 12 2007 31"	12mmT4	W/OIII,EB,ML,VERY BRT BLUEISH BALL,SOME FAINT NEB AROUND NEC DET.R=G		
	Sep 12 2007 31"	17mmT4	W/OIII,VB,PS,UB,BRT BLUEISH BALL,R=G		
66	NGC 6720	Lyr M57		Planetary Neb 4+3	RINGNEB,B,PL,CE,LYRA
	Aug 23 2009 31"	12mmT4	VB,VL,OVAL,HISB,BRT THICK SIDES,FT NEB INSIDE.C*15TH MAG,EXT NEB ONE SIDE,OIII HELPS LITTLE,KNOCKS OUT C*,R=E		
	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			
67	IC 1295	Sct		Planetary Neb 3b+2	
	Aug 23 2009 31"	12mmT4	MF,PL,OVAL,PATCHY,NO C*,SEVERAL F*S IN NEB,SOME CLOSE TO CENTER,OIII HELPS,DARK INNER HOLE,BREAK IN EDGES,PAIR=SAND2-374,R=F		
	Sep 05 2007 31"	17mmT4	W/OIII,MB,ML,OVAL,PATHC,SHISB,PARCHY AREAS,FEW F*S IN NEB,R=E		
68	NGC 6742	Dra	H742-3	Planetary Neb 2c	VF,STELLAR

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68	NGC 6742	Dra	H742-3	Planetary Neb 2c	VF,STELLAR
	Aug 23 2009 31"	12mmT4	MF,MS,R,UB,GREENISH-GREY,NO C*,VF* IN EDGE OF NEB,OIII HELP A LITTLE,UB,R=G		
	Mar 26 2006 31"	17mmT4	MB,ML,OVAL,MHISB,2F*S IN NEB,PALE GREENISH,DARK AREA SUSP/WOIII,NEB BRTER,R=E		
69	SH2 71	Aql		Planetary Neb 3b+3	
	Sep 02 2008 31"	17mmT4	MF,ML,FLD * CLOSE TO C* 13TH MAG,WHISPS OF NEB,IRR,OIII HELPS LITTLE,C* DET,R=F		
70	NGC 6741	Aql		Planetary Neb 4	PLN,STELLAR
	Sep 02 2008 31"	17mmT4	VF,PS,R,OIII HELPS,NEB BRTER,BETTER,BRT BLUE,SLIGHT HINT OF ELONG,RINGS,R=G		
	Aug 31 1984 12.5"	12mm	MB,ES,1/3 WAY BETWEEN 2F*S,VF GLOW DET WITH AVERTED VISION		
	Jul 10 1981 12.5"	12mm	JUST S OF 11MAG *,BLUE GREEN COLOR,VB,ES		
71	NGC 6751	Aql		Planetary Neb 3	PB,S
	Sep 02 2008 31"	17mmT4	MB,PL,R,BRT GR,C* 15TH MAG,OIII DOESNOT HELP MUCH,PATCHY AREAS IN NEB,R=E		
	Jul 10 1981 12.5"	12mm	R,BLUE GREEN,MF,VS		
72	NGC 6765	Lyr		Planetary Neb 5	F,S,E
	Sep 02 2008 31"	17mmT4	MF,MS,ELONG,OIII HELPS,HISB IN CENT REG,BROKEN HALVES 1 SM & FAINTER,C* BM,R=G		
	Sep 19 2004 31"	17mmT4	PB,ML,ELONG,HSIB,W/OIII,COMET LIKE,PATCHY,2 HALVES ONE BRT THAN OTHER,R=E		
73	IC 4846	Aql		Planetary Neb 2	
	Sep 02 2008 31"	17mmT4	MF,VS,R,NO C*,OIII MAKES NEB STAND OUT,BRT BLUE,VERY SMALL,R=G		
	May 16 2004 31"	17mmT4	PB,VS,R,WITH OIII,BRT BLUE, ROUND DISK,HISB,R=G		
74	IC 1297	CrA		Planetary Neb	
	Sep 02 2008 31"	17mmT4	MF,PS,OVAL,R,OIII HELPS LITTLE,GREENISH,NO C*,10 DEG ABOVE HORZ AT MERIDIAN,R=F		
75	NGC 6778	Aql		Planetary Neb 3+3	S,E,ILL-DEFINED DISC
	Sep 02 2008 31"	17mmT4	PB,MS,OVAL,R,GREENISH,OIII HELPS LITTLE,NO C*,BRTER AREAS DET,MORE OVAL,R=G		
	May 16 2004 31"	17mmT4	MB,MS,R,WITH OIII,PATCHY AREA DET,MOD HISB,SOFT BLUE,R=E		
	Jul 10 1981 12.5"	12mm	BLUE,MF,MS		
76	NGC 6781	Aql	H743-3	Planetary Neb 3+3	PLN,F,L,R,VSBM DISC
	Sep 02 2008 31"	17mmT4	MB,VL,OVAL,NO C*,ONE SIDE BROKEN,OIII HELPS SOMEWHAT,LG CENT DK AREA BK SIDE,R=E		
	Aug 31 1984 12.5"	12mm	MF,PL,R,PATCHY,RESEMBLES HELIX NEB		
	Jul 10 1981 12.5"	12mm	VL,DIF,R,DARK PATCHES SEEN IN CENTRAL AREA,GRAYISH COLOR DIF NEB		
77	NGC 6790	Aql		Planetary Neb 2	PLN,B,ES,STELL=9.5M
	Sep 02 2008 31"	17mmT4	PB,VS,R,GREENISH BRT BALL,OIII HELPS,NO C*,BRT BLUEISH,VF HALO AROUND BALL,R=G		
	Jul 10 1981 12.5"	12mm	ES,JUST E OF 12MAG *,DIF OUTER HALO JUST VISIBLE		
78	MINK 1-70	Aql		Planetary Neb 1	
	Sep 02 2008 31"	17mmT4	MF,ES,R,OIII HELPS LITTLE,BLUEISH SM BALL,NO C*,HARD TO DET FROM FOV *S,R=F		
79	NGC 6803	Aql		Planetary Neb 2a	PLN,STELLAR
	Sep 02 2008 31"	17mmT4	MB,ES,R,GREENISH SM BALL,OIII HELPS LITTLE,BLUEISH,VERY SMALL BRT BALL,R=F		
	Jul 10 1981 12.5"	12mm	GREENISH,CENTRAL * DET,F* ON W EDGE OF NEB		
80	NGC 6804	Aql	H38-6	Planetary Neb 4+2	CB,S,IR,RRR
	Sep 02 2008 31"	17mmT4	MB,BL,OVAL,GREENISH,SEVERALF*S IN NEB,C* 15TH MAG,OIII DOESNOT HELP MUCH,R=G		
	Aug 31 1984 12.5"	12mm	PF,MS,BNUC,R-OVAL,SBM,F* TOWARDS OUTER EDGE,PATCHY		
	Jul 10 1981 12.5"	12mm	GREEN,DIF,PF,MS,CENTRAL * APPROX 14MAG		

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81	NGC 6807	Aql		Planetary Neb 2	PLN,STELLAR
	Sep 02 2008	31"	17mmT4	MB,ES,R,OIII HELPS DET FROM FOV *S,BLUEISH,NO C*,VERY SMALL AND ROUND,R=F	
	Jun 25 2003	12.5"	5mmT6	BLUEISH,VERY FAINT HALO AROUND *,STELLAR	
	Jun 25 2003	12.5"	9mmT6	MB,ES,R=F	
82	HENIZ 2-438	Cyg		Planetary Neb 4	
	Sep 02 2008	31"	12mmT4	VB,VS,R,INNER CORE RING REDDISH,C* 12TH MAG,FT NEB AROUND C*,OIII NO HELP,R=F	
	Sep 02 2008	31"	17mmT4	VB,VS,R,INNER CORE RING REDDISH,C* 12TH MAG,FT NEB AROUND C*,OIII NO HELP,R=F	
83	NGC 6818	Sgr	H51-4	Planetary Neb 4	PLN,B,VS,R
	Sep 02 2008	31"	17mmT4	VB,ML,R,OIII HELPS MUCH,BRT BLUEISH GREEN,CENTRAL REGION DARK,NO C* DET,R=E	
	Jul 30 2002	12.5"	16mm	MB,ML,BRT BLUE GREEN,VERY ROUND	
	Sep 20 1984	12.5"	12mm	PB,PS,F* JUST TO W,UB,R	
	Sep 20 1981	12.5"	24mm		
	Jul 15 1980	12.5"	24mm		
	Jun 18 1980	12.5"	24mm		
	Jun 17 1980	12.5"	9mm	GREAT,LOOKS LIKE 6210	
84	NGC 6826	Cyg	H73-4	Planetary Neb 3a+2	PLN,B,PL,R,*11M
	Sep 02 2008	31"	17mmT4	VB,VL,R,GREENISH TECTURE BRT BALL,C* VERY BRT 10TH MAG,OIII NOT MUCH HELP,R=E	
	Jul 24 1981	12.5"	16mm	GREENISH,BLINKING PLANTARY,CENT * EASILY BLINKS WHEN LOOKING AT CENTER	
	Jul 24 1981	12.5"	7mm	CENTRAL * NO LONGER BLINKS	
	Jun 20 1980	12.5"	9mm	BRT CENTRAL * EASILY SEEN	
	Jun 17 1980	12.5"	16mm	GREAT,GREENISH BLUE COLOR,USE BARLOW AND 16MM	
85	NGC 6833	Cyg		Planetary Neb 2	PLN,STELLAR
	Sep 02 2008	31"	17mmT4	MB,ES,R,GREENISH-BLUEISH,OIII NOT MUCH HELP,NO C*,BM,BARELY DET IN FOV,R=P	
	Sep 11 2004	31"	17mmT4	VB,PS,R,HISB,W/OIII,BRT BLUE BALL,FAINT OUTER HALO DET,R=G	
86	NGC 6853	Vul M27		Planetary Neb 3+2	VB,VL,BIN,IE,DUMBDEL
	Jul 05 2008	31"	17mmT4	VB,EL,W/OIII,MORE DETAIL,ONE SIDE MORE NEB THAN OTHER,BULGE,FINE DETAILS,C*,R=E	
	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		
87	NGC 6884	Cyg		Planetary Neb 2b	PLN,STELLAR
	Sep 02 2008	31"	17mmT4	MB,PS,R,UB,OIII HELPS,BLUEISH BALL,NO C*,EASILY DET IN FOV,R=F	
	Jul 24 1981	12.5"	12mm	NOT SURE OF FIND,IN VOID BARREN * FIELD,DIF NEB SUSP	

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88	NGC	6879	Sge		Planetary Neb 2a	PLN,STELLAR=10M
Aug 15 2009	31"	17mmT4	MB,VS,R,UB,NO	C*,BRT	BLUEISH,RICH FOV,OIII,DOESNOT HELP MUCH,VF NEB AR NUC,R=F	
Aug 20 2003	31"	25mm	EF,VS,R,UB,AV,SUSP,LOC GOOD,R=P			
Aug 20 2003	31"	9mmT6	VDIF,VF,MS,PATCH,UB,ABLE TO DETECT WITH 9MM,R=F			
89	NGC	6881	Cyg		Planetary Neb 2a+3	PLN,STELLAR
Aug 15 2009	31"	17mmT4	MF,VS,R,GREENISH,SMALL NUC WITH THIN FAINT OUTER NEB,OIII,DOESNOT HELP MUCH,R=F			
Sep 18 2004	31"	17mmT4	W/OIII,VF,VS,R,FIND FIRST WITH 25MM & * HOPPING,BLUEISH,VF HALO DET,R=F			
90	NGC	6886	Sge		Planetary Neb 2+3	PLN,STELLAR=10M
Aug 15 2009	31"	17mmT4	PB,PS,R,UB,BRT BLUEISH,RICH FOV,OIII DOESNOT HELP MUCH,R=G			
Aug 20 2003	31"	25mm	MB,PS,R,BRT BLUE ROUND BALL,R=E			
Aug 20 2003	31"	9mmT6	VP,PL,BRT BLUE,RING OF NEB,BOTH SIDES TAPPERED,SLIGHTLY BM,CENTRAL * SUSP,R=E			
91	NGC	6891	Del		Planetary Neb 2a+2b	PLN,STELLAR=9.5M
Aug 15 2009	31"	17mmT4	VB,ML,R,BNUC,C* 13TH,GMBM,BLUEISH,NEB AR C*,OIII,NEB BRTER,NO C*,BLUEISH,R=E			
Jul 08 1983	12.5"	12mm	MB,VS,BNUC,BLUEISH,VERY R,BM,APPEARS AS A *,NEB COMES OUT WITH AVERTED VISION			
Jul 30 1981	12.5"	12mm	R,GMBM,SMALL,GREENISH BLUE			
92	NGC	6894	Cyg	H13-4	Planetary Neb 4+2	RINGNEB,F,S,VVLE
Aug 15 2009	31"	17mmT4	MB,ML,OVAL,NO C*,VF* IN EDGE OF RING,MINI M57,OIII,MORE NEB,EDGES FRAILED,R=E			
Sep 04 2002	12.5"	9mmT6	MF,PS,UB,OVAL,CENTRAL REGION DARK PATCH,ONE SIDE SLIGHTLY BRIGHTER			
93	IC	4997	Sge		Planetary Neb 1	
Jul 05 2008	31"	12mmT4	PB,PS,R,CENTRAL REGION BRT,W/OIII,HELPS MUCH,BM,FHALO DET AROUND MIDDLE,R=G			
Sep 10 2004	31"	17mmT4	VB,MS,BNUC,HISB,W/OIII,BRIGHT BLUE,BRT CENTRAL DISC WITH FAINT HALO,ALMOST *,R=G			
94	NGC	6905	Del	H16-4	Planetary Neb 3+3	PLN,B,PS,R,4S*NR
Aug 15 2009	31"	17mmT4	PB,ML,OVAL,C* 14TH,PATCHY AREAS,GREENISH,ONE SIDE BRTER THAN OTHER,OIII,HELPS, MORE PATCHY AREAS,ENDS BROKEN,R=E			
Jul 08 1983	12.5"	12mm	MF,PS,R,TRI OF *S AROUND OBJECT,OUTER EDGES FAINTER THAN MIDDLE			
Jul 30 1981	12.5"	12mm	BLUEISH GREEN COLOR,R,EDGES WELL DEF,CENTRAL * VERY FAINT,UB			
95	NGC	7008	Cyg	H192-1	Planetary Neb 3	CB,L,E45,R,**ATT
Aug 15 2009	31"	17mmT4	MB,PL,PATCH,C* 13TH,2 HALVES,BROKEN,ANOTHER 13TH * IN NEB,BLOBS BOTH ENDS,OIII,HELPS,MORE NEB,BRT BLOBS BOTH ENDS,C* STILL VISIBLE,R=E			
Aug 11 1982	12.5"	16mm	MF,PL,BG COLOR,NW PART BRT,PATCHY-R,CENTRAL 14* DET,LOC E OF A FEW *S			
96	NGC	7009	Aqr	H1-4	Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
Aug 15 2009	31"	17mmT4	VB,VL,HISB,BRT BLUEISH,RING DET,FT NEB AR CENTRALBALL,NO C*,OIII,DOESNOT HELP THAT MUCH BUT RING IS EASIER TO DETECT,R=E			
Sep 27 2005	31"	17mmT4	VF,VL,ELONG,R,HISB,THICK INNER RING,BRT BLUE,CENTRAL *,RINGS DET,R=E			
Sep 27 2005	31"	17mmT4	WITH O/III, EB,VL,ELONG,R,MORE NEB DET BOTH SIDES OF RING,BETTER W/O,R=E			
Sep 01 2002	31"	9mmT6	BRT BLUE,RING SEEN,DETAIL IN NEB DETECTED,BEST VIEW TO DATE			
Aug 31 1984	12.5"	12mm	VB,MS,R BRT BLUEISH NEB,SLIGHTLY ELONG,UB			
Jul 10 1981	12.5"	16mm	SATURN NEB,RING EASILY SEEN,BRT BLUE,MB,MS			
Oct 31 1980	12.5"	24mm				
Sep 10 1980	12.5"	24mm				
Jul 17 1980	12.5"	24mm				
Jun 18 1980	12.5"	9mm	DISK SHOWN WELL			
97	NGC	7026	Cyg		Planetary Neb 3a	PB,BIN,PLN
Aug 23 2009	31"	12mmT4	MF,MS,HISB,SQ SHAPE,2 BARS BOTH SIDES OF CENT REG,NO C*,NEB EXTENDS BEYOND			

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97	NGC	7026	Cyg	Planetary Neb 3a	PB,BIN,PLN
Jul 24 1981	12.5"	12mm		DIF THROUGHOUT,9-10* W APPROX 20 SEC,UB,ELONG IN SHAPE	
98	NGC	7027	Cyg	Planetary Neb 3a	PLN,STELLAR=8.5M
Aug 23 2009	31"	12mmT4		VB,ML,HISB,BRT GREENISH BLUE,13TH MAG * IN NEB OFF CENTER,BRT NEB AROUND *,NO C*,IRR IN SHAPE,BROKEN PARTS,F NEB DET AROUND BROKEN PARTS,OIII,HELP LITTLE,BLENDS BROKEN PARTS INTO ONE,R=E	
Jun 06 1981	12.5"	16mm		BLUE GREENISH,MB,PL	
99	SH1	89	Cyg	Planetary Neb 3a	
Sep 02 2008	31"	17mmT4		EDIF,EF,MS,OVAL,UB,STAR HOP,BARELY VIS W/AV,OIII HELPS GREATLY,NEB DET,NO C*,R=P	
100	NGC	7048	Cyg	Planetary Neb 3b	PF,PL,DIF,IR,VLBM
Aug 23 2009	31"	12mmT4		MF,ML,OVAL,UB,3F*S IN NEB ONE SIDE,NO C*,OIII,NOT UB,PATCHY,DARK AREAS,R=G	
Jun 06 1981	12.5"	16mm		GREENISH,DIF,MF,PL	
101	PEASE	1	Peg	Planetary Neb 1	
Jul 05 2008	31"	17mmT4		MF,ES,R,W/OIII,HELPS NEB LITTLE BY KNOCKING OUT *S,ALMOST DEAD CENTER,NO C*,R=P	
Sep 23 2003	31"	9mmT6		VF,ES,NEBULA FILTER,R,STANDS OUT,VERY CLOSE TO CENTER OF CLUSTER,R=F	
Sep 20 2003	31"	25mm		EDIF,EF,VS,PLANTARY IN M15,BLUIISH GREY BALL OFF CENTER OF CLUSTER,R=G	
102	IC	5117	Cyg	Planetary Neb 2	
Sep 02 2008	31"	17mmT4		MB,VS,R,UB,BLUEISH BALL,CLOSE TO *,OIII HELPS LTTL,F NEB DET ARND BALL,NO C*,R=F	
Sep 18 2004	31"	17mmT4		MB,VS,R,HISB,W/OIII,* CLOSE BY,BRT BLUE,VERY SMALL DISC,FNEB DET WITH AV,R=F	
103	HU	1-2	Cyg	Planetary Neb 2	
Sep 02 2008	31"	17mmT4		MB,MS,HOUR GLS SHAPE,FT NEB ARND,BLUEISH,NO C*,OIII HELPS LTTL,MORE NEB DET,R=F	
104	NGC	7094	Peg	Planetary Neb 4	*IN EEF NEBY,VDIFFIC
Sep 02 2008	31"	17mmT4		VF,ML,R,NEB BARELY DET,C* 12MAG,OIII HELPS MUCH,C* W/RND NEB,DK CENT AREA,R=F	
Sep 20 2003	31"	25mm		PF,VL,R,BRT CENTRAL *.AREAS OF PATCHES IN NEB.R=G	
105	IC	5217	Lac	Planetary Neb 2	
Sep 02 2008	31"	17mmT4		MB,VS,R,UB,BRT BLUE BALL,NO C*,OIII HELPS LTL,FT HALO NEB DET ARND BALL,R=F	
Sep 18 2004	31"	17mmT4		MB,PS,R,HISB,W/OIII,BRT BLUEISH BALL W/F HALO DET,CENTRAL * SUSP,BM,R=G	
106	NGC	7293	Aqr	Planetary Neb 4+3	PF,VL,E OR BIN
Sep 02 2008	31"	31mmT5		DIF,PF,EEL,FILLS 17MM,OIII HELPS GREATLY,SEVERAL F*S CENT REGION,C* 13MAG,LARGE DARK AREA AROUND CENTER,FINE DETAIL OUTER EDGES,BEST TODATE,R=E	
Jul 10 1981	12.5"	24mm		EL,MF,DIF GAS CLOUD WITH *S WITHIN ITS BOUNDARIES,HELIX NEB	
Oct 31 1980	12.5"	24mm			
Sep 18 1980	12.5"	24mm			
Sep 10 1980	12.5"	24mm		HELIX NEB,WITH NEBULA FILTER EXCELLENT!!!	
107	NGC	7354	Cep	H705-2 Planetary Neb 4+3b	PLN,B,S,R,PGVLBM
Sep 12 2012	36"	17mmT4		PB,ML,R,UB,MHISB,BLUEISH GREEN,NO C*,OIII DARKENS NEB AND BRINGS OUT MORE DET,PATCHY,DARK AREAS,R=E	
Sep 02 2008	31"	17mmT4		PB,ML,R,UB,GREENISH,NO C*,SOFT,OIII DOESNOT HELP MUCH,R=E	
Jul 09 1983	12.5"	12mm		VF,PS,2F*S ON EDGE,VERY R,SOFT UB GLOW	
108	NGC	7662	And	H18-4 Planetary Neb 4+3	PLN ORRING,VB,PS,R
Sep 02 2008	31"	17mmT4		VB,ML,OVAL,R,BRT GREENISH,BRT INNER RING NOT SYM,BRT GREENISH EDGES IN SPOTS,C* 14TH MAG,R=E	
Aug 31 1984	12.5"	12mm		MB,VS,VERY R,UNIFORM BLUEISH COLOR,* CLOSE BY	
Sep 23 1981	12.5"	16mm		BRT BLUEISH GREEN,UB,R WITH FUZZY EDGES,NO CENTRAL *,MB,PS,15* SW	

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108 NGC 7662 And	H18-4	Planetary Neb 4+3	PLN ORRING,VB,PS,R
Jul 15 1980 12.5" 24mm			
109 JONES 1 Peg		Planetary Neb 3b	
Sep 02 2008 31" 17mmT4	DIF,VF,VL,PATCH,OIII HELPS MUCH,2 CRESENT HALVES,SEVERAL VF*S IN CENTRAL REG,C* 16TH MAG,BROKEN IN HALF,R=F		
110 ABELL 82 Cas		Planetary Neb	
Sep 02 2008 31" 17mmT4	DIF,EF,ML,OVAL,C* 15MAG,OTHER F*S IN NEB CLOSE TO CENTER,OIII HELPS DET NEB,R=P		
Sep 19 2004 31" 17mmT4	VDIF,W/OIII,VF,ML,OVAL,PATCH,B* IN CTR,3F*S IN NEB ONE SIDE,LG BALL/PATCH,R=F		

Total: 110