

Planetary Nebula Observations

ABELL 31 Mar 15 2005 8"	Cnc 11mmT6	PI Neb 3a VF,PATCHY,LARGE,R=F	PK 219+31.1
ABELL 36 Jul 13 2013 18"	Vir 11mmT6	PI Neb VF,VS,R=F. NO CENTRAL STAR NOTED. USED OIII FILTER.	PK 318+41.1
ABELL 56 Jul 03 2005 8"	Aql 19mmW	PI Neb 4 DIFF,MF,VL,PATCHY,R=G	PK 37-3.2 PNG 37.9-3.4
ABELL 67 Aug 13 2010 31"	Aql 17mmT4	PI Neb 2b VF,VS,AV,R=P. NO CENTRAL STAR NOTED.	PK 43-13.1 PNG 43.5-13.4
HENIZ 2-260 Jul 24 2006 8"	FIX 7.5mmW	PI Neb VF,VS,R,AV,R=F	ESO 588-14 PK 8+6.1 PNG 8.2+6.8
HENIZ 2-438 Aug 18 2010 12"	Cyg 26mm	PI Neb 4 PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER	Henize 2-438 PK 64.7+5.0 PNG 64.7+5.0 Campbell's Hydrogen Star
HENIZ 2-441 Aug 12 2005 8"	FIX 7.5mmW	PI Neb 4 VF,VS,AV,R=F	Merrill 1-1 PK 52-2.2 PNG 52.5-2.9
IC 289 Aug 31 2010 12"	Cas 7mm TV	PI Neb 4+2 PF,PS,R=F. NO CENTRAL STAR NOTED.	Hubble 1 PK 138+2.1 PNG 138.8+2.8
IC 351 Dec 18 2006 31"	Per 20mmUW	PI Neb 2a PB,VS,R,R=G	PK 159-15.1 PNG 159.0-15.1
IC 418 Dec 28 2008 31"	Lep 17mmT4	PI Neb 4 VB,VS,R,R=G, CENTRAL STAR	PK 215-24.1 PNG 215.2-24.2
IC 1297 Aug 29 2010 12"	CrA 7mm TV	PI Neb PF,VS,R=F. NO CENTRAL STAR NOTED	ESO 337-20 Henize 2-431 Sanduleak 2-386
IC 1747 Oct 31 2010 12" Sep 12 2010 12"	Cas 7mm TV 5.5mmN	PI Neb 3b VF,VS,R=P. STELLAR PF,VVS,R=P,STELLAR	PK 130+1.1 PNG 130.2+1.3
IC 2003 Dec 18 2006 31"	Per 20mmUW	PI Neb 2 B,VS,R,R=G	PK 161-14.1 PNG 161.2-14.8
IC 2120 Nov 21 2006 8"	Aur 11mmT6	PI Neb Planet:5 18.2 +37 36 VF,VS,AV,R=F	Minkowski 2-3 PK 169-0.1
IC 2149 Nov 11 2009 12"	Aur 7.5mmW	PI Neb 3b+2 PB,PS,R=G, NO CENTRAL STAR NOTED	PK 166+10.1 PNG 166.1+10.4
IC 2165 Dec 19 2006 31"	CMa 17mmT4	PI Neb 3b VB,PS,R=G, NO CENTRAL STAR	PK 221-12.1 PNG 221.3-12.3
IC 3568	Cam	PI Neb 2+2a	PK 123+34.1 PNG 123.6+34.5

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IC 3568	Cam	PI Neb 2+2a	PK 123+34.1 PNG 123.6+34.5
Jun 07 2010	12" 7.5mmW	PB,VS,R=F. ALMOST STELLER	
IC 4593	Her	PI Neb 2+2	PK 25+40.1 PNG 25.3+40.8
Jun 03 2005	31" 19mmW	VB,VS,R,HISB,R=G	
IC 4634	Oph	PI Neb 2a+3	ESO 587-1 Henize 2-189 Sanduleak 2-164
Jul 31 2005	8" 7.5mmW	VVF,VS,AV,R=F	
IC 4673	Sgr	PI Neb 4	ESO 521-15 Minkowski 1-36 Henize 2-333
Sep 05 2007	8" 11mmT6	VF,VS,NO CENTRAL STAR,R=F	
IC 4732	Sgr	PI Neb 1	ESO 523-1 Henize 2-410 Sanduleak 2-345
Sep 05 2007	8" 11mmT6	VF,ES,AV,NO CENTRAL STAR,R=F	
IC 4776	Sgr	PI Neb 2a	ESO 396-2 Henize 2-421 Sanduleak 2-363
Aug 24 2012	18" 8.8 ES	PF,PS, R=F, OIII FILTER,	
IC 4846	Aql	PI Neb 2	Sanduleak 2-385 PK 27-9.1 PNG 27.6-9.6
Jul 19 2017	12" 11mmT6	VF,VS, R=F. LP2 FILTER	
Jul 03 2005	8" 11mmT6	VB,VS,R,R=F	
IC 4997	Sge	PI Neb 1	Henize 2-464 PK 58-10.1 PNG 58.3-10.9
Sep 01 2008	31" 17mmT4	PB,ES,R=F. NO CENTRAL STAR	
IC 5117	Cyg	PI Neb 2	PK 89-5.1 PNG 89.8-5.1
Jul 23 2006	8" 11mmT6	F,VS,R,AV,R=F	
IC 5217	Lac	PI Neb 2	PK 100-5.1 PNG 100.6-5.4
Nov 16 2012	18" 11mmT6	VS,VF,R=F	
J 320	Ori	PI Neb 2+4	PK 190-17.1 Jonckheere 320
Dec 28 2008	31" 17mmT4	F,VS,OVAL,R=F, NO CENTRAL STAR	
Dec 15 2004	8" 7.5mmW	VF,R=F	
MERR 2-2	FIX	PI Neb 1	PK 100-8.1 PNG 100.0-8.7 Merrill 2-2
Jul 24 2006	8" 7.5mmW	VF,VS,R,AV,R=F	
MINK 1-70	Aql	PI Neb 1	PK 45-2.1 PNG 45.4-2.7 Minkowski 1-70 Vyssotsky 2-2
Aug 12 2005	8" 7.5mmW	VF,VS,AV,R=F	
MINK 1-74	FIX	PI Neb 1	Minkowski 1-74 Henize 2-445 PK 52-4.1 PNG 52.2-4.0
Aug 12 2005	8" 7.5mmW	VF,VS,AV,R=F	

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MINK 3-34	FIX		PI Neb 2		Minkowski 3-34 Sanduleak 2-390 PK 31-10.1 PNG 31.0-10.8
Jul 03 2005	8"	11mmT6	DIFF,VF,VS,AV,R=F		
NGC 40	Cep	H58-4	PI Neb 3b+3	F,VS,R,VSMBM,*12SP	PK 120+9.1 PNG 120.0+9.8
Oct 05 2016	12"	11mmT6	B,VS,R=G.	OIII HELPS. NOT SURE ABOUT CENTRAL STAR	
Nov 11 2009	12"	7.5mmW	B,PS,R=G,	CENTRAL STAR VISIBLE	
Oct 06 2004	8"	7.5mmW	MB,R,R=G		
NGC 246	Psc	H25-5	PI Neb 3b	VF,L,4*IN DIF NEB	PK 118-74.1 PNG 118.8-74.7
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		
NGC 650	Per	M76 H193-1	PI Neb 3+6	VB,P OF DNEB	M 76 Little Dumbbell PK 130-10.1 PNG 130.9-10.5
Oct 09 2018	12"	8mm Et	F,S,R=E.	LP2	
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		
NGC 1360	For		PI Neb 3	*8IN B,LNEB,E NS	ESO 482-7 Minkowski 1-3 PK 220-53.1
Dec 28 2008	31"	17mmT4	PF,PS,EL,R,R=G,	CENTRAL STAR, OIII	
NGC 1501	Cam	H53-4	PI Neb 3	PLN,PB,PS,VLE,1'DIAM	PK 144+6.1 PNG 144.5+6.5
Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G		
NGC 1514	Tau	H69-4	PI Neb 3+2	*9IN NEB3'DIAM	PK 165-15.1 PNG 165.5-15.2
Dec 04 2004	8"	11mmT6	VB,HISB,R=G		
NGC 1535	Eri	H26-4	PI Neb 4+2c	PLN,VB,S,R,PS,VSMB,R	PK 206-40.1 PNG 206.4-40.5
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	
NGC 2022	Ori	H34-4	PI Neb 4+2	PLN,PB,VS,VLE	PK 196-10.1 PNG 196.6-10.9
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 =	ARGO NAVIS	
NGC 2346	Mon	H65-4	PI Neb 3b+4	*10AFF W/ S,VF,NEB	Minkowski 1-10 Sanduleak 2-5 PK 215+3.1
Feb 17 2012	18"	11mmT6	OIII FILTER -	VERY NICE PLANETARY	
Apr 09 2008	8"	11mmT6	PF,PS,NO CENTRAL STAR,	R=F	

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NGC 2371	Gem	H316-2	PI Neb 3a+2	B,S,R,BMN,P OF DNEB	NGC 2372
Feb 23 2006 31"	19mmW	FAIRLY LONG,	ELONG,MSB,R=G		
Dec 04 2004 8"	7.5mmW	MF,OVAL,R=G			
NGC 2392	Gem	H45-4	PI Neb 3b+3b	B,S,R,*9M,*8NF100"	Eskimo Nebula PGC 21128
May 22 2015 12"	8mm Ds	NO FILTER NEEDED	CENTRAL STAR	VISIBLE	
Dec 04 2004 8"	7.5mmW	VB,R,HISB,R=E!!!			
Nov 06 2004 8"	11mmT6	NOT A BAD PLANETARY			
NGC 2438	Pup	H39-4	PI Neb 4+2	PLN,PB,PS,VLE,R	Sanduleak 2-13 PK 231+4.2 PNG 231.8+4.1
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE	PLANETARY		
Mar 13 2007 8"	7.5mmW	VF,VS,R=F, NO CENTRAL	STAR		
NGC 2440	Pup	H64-4	PI Neb 5+3	PLN,CB,NOT VWELL DEF	ESO 560-9 Sanduleak 2-14 PK 234+2.1
Feb 17 2012 18"	7mm TV	OIII FILTER - VERY NICE	PLANETARY		
Mar 13 2007 8"	7.5mmW	F,PS,R=F,IRREGULAR IN	SHAPE		
NGC 2452	Pup		PI Neb 4+3	PLN,F,S,LE,AM60*	ESO 493-11 RCW 17 Henize 2-4
Nov 22 2006 8"	11mmT6	PF,PS,R=F			
NGC 2610	Hya	H35-4	PI Neb 4+2	F,S,ATTTO*13,*7NF	Sanduleak 2-27 PK 239+13.1 PNG 239.6+13.9
Mar 29 2006 8"	11mmT6	PF,PS,R=F			
NGC 3242	Hya	H27-4	PI Neb 4+3b	PLN,VB,LE147,45"D	Ghost of Jupiter ESO 568-5
May 22 2015 12"	8mm Ds	NO FILTER CENTRAL STAR	NOT VISIBLE		
Apr 08 2005 8"	7.5mmW	VB,VL,R,R=G			
NGC 3587	UMa M97		PI Neb 3a	PLN,VB,VL,R,VVG,VSBM	M 97 Owl Nebula PK 148+57.1 PNG 148.4+57.0
Apr 20 2018 12"	11mmT6				
Apr 14 2016 12"	8mm Ds	PRETTY FAINT. NO FILTER	USED.		
Aug 15 2015 12"	11mmT6				
May 23 2015 12"	11mmT6				
Jul 13 2013 18"	7mm TV	MORE EYE CANDY			
May 23 2012 18"	17mmAT	EYE CANDY			
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 -	ARGO NAVIS		
Dec 26 2003 8"	25mmPL	Q/M COLD			
NGC 4361	Crv	H65-1	PI Neb 3a+2	VB,L,R,VSMBMN,R	ESO 573-19 PK 294+43.1 PNG 294.1+43.6
May 04 2005 8"	11mmT6	VF,VS,R,AV,R=F			

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NGC 6058	Her	H637-3	PI Neb 3+2	PF,VS,R,STELLAR	PK 64+48.1 PNG 64.6+48.2
Nov 13 2007	8"	11mmT6	VF,VS,AV,R=F, NO CENTRAL STAR		
NGC 6153	Sco		PI Neb 4	PLN,STELLAR	ESO 331-6 RCW 112 Henize 2-167
Jul 14 2010	12"	7.5mmW	PF,CS,R,R=F, NO CENTRAL STAR OBSERVED.		
NGC 6210	Her		PI Neb 2+3b	PLN,VB,VS,R,DISC	PK 43+37.1 PNG 43.1+37.7
Jul 07 2018	12"	8mm Et	PBB,S,R=E. OIII FILTER. ROUND DONUT		
Jun 17 2016	12"	8mm Ds	TURTLE PLANETARY. NO CENTRAL STAR NOTED		
Sep 19 2014	12"	11mmT6	B,VS,R=F,SITS ATOP 3-STAR TRIANGLE -N.N., HOME - 8/14/14		
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR		
NGC 6302	Sco		PI Neb 6	PB,E PF,(SWIFT,TRIP)	Bug Nebula ESO 392-5 Gum 60 RCW 124 Henize 2-204 PK 349+1.1
Jul 07 2018	12"	8mm Et	PB,S,R=E. OIII FILTER		
Jul 09 2005	8"	11mmT6	MB,VS,R,R=G		
NGC 6309	Oph		PI Neb 3b+6	B,S,BET2*VNR	Box Nebula Henize 2-206 PK 9+14.1 Sanduleak 2-281
Jul 03 2005	8"	11mmT6	MF,MS,PATCHY,R=F		
NGC 6337	Sco		PI Neb 4	RINGNEB,EF,S,AM ST	ESO 333-5 Henize 2-215 Sanduleak 2-191
Jul 31 2011	12"	7mm TV	F,VS,,R=F,SMUDGE WITH TWO FOREGROUND STARS		
NGC 6369	Oph	H11-4	PI Neb 4+2	RINGNEB,PB,S,R	ESO 520-3 Henize 2-232 Sanduleak 2-207
Jul 07 2018	12"	8mm Et	PF,S,R=G. OIII FILTER		
Jul 09 2005	8"	11mmT6	MB,MS,R,R=G		
NGC 6445	Sgr	H586-2	PI Neb 3b+3	PB,PS,R,GBM,R,*15NP	Little Gem ESO 589-9 Henize 2-290
Jul 08 2018	12"	17mmT4	B,S,R=G.		
Jul 09 2005	8"	11mmT6	MB,ML,MSB,R=G		
NGC 6537	Sgr		PI Neb 2a+6	PLN,B,S,STELLAR	ESO 590-1 Henize 2-340 Sanduleak 2-294
Aug 12 2005	8"	7.5mmW	VF,VS,AV,R=F		
NGC 6543	Dra	H37-4	PI Neb 3a+2	PLN,VB,PS,SBMVSN	the Cat's Eye Nebula
Oct 21 2012	8"	5mm TV	B,PS,OVAL IN SHAPE,R=F		
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		
NGC 6563	Sgr		PI Neb 3a	PLN,F,L,CE,HAZY EDGE	ESO 394-33 Henize 2-361 Sanduleak 2-308
Aug 29 2010	12"	7mm TV	PF,PS,R=F. NO CENTRAL STAR NOTED		
NGC 6567	Sgr		PI Neb 2a+3	PLN,STELL,11M,IN ACL	ESO 590-8 Henize 2-369 Sanduleak 2-314
Sep 05 2007	8"	11mmT6	VF,PS,NO CENTRAL STAR,R=F		

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NGC 6572	Oph		PI Neb 2a	PLN,VB,VS,R,LHAZY	PK 34+11.1 PNG 34.6+11.8
Jul 07 2018	12"	8mm Et	PB,PS,R=E. OIII FILTER		
Jul 23 2006	8"	7.5mmW	CB,CS,R,R=G		
Jul 31 2005	8"	11mmT6	VB,VS,R,R=F		
NGC 6629	Sgr	H204-2	PI Neb 2a	PLNORGCL,PB,EES,R	ESO 522-26 Henize 2-399 Sanduleak 2-335
Jul 07 2018	12"	8mm Et	B,S,R=F. OIII FILTER		
Jul 09 2005	8"	11mmT6	VF,VS,AV,R=F		
NGC 6644	Sgr		PI Neb 2	PLN,STELLAR	ESO 522-23 Henize 2-408 Sanduleak 2-343
Sep 05 2007	8"	11mmT6	VF,VS,AV,R=F		
NGC 6720	Lyr M57		PI Neb 4+3	RINGNEB,B,PL,CE,LYRA	M 57 Ring Nebula PK 63+13.1 PNG 63.1+13.9
Jul 02 2017	12"	17mmT4	SURPRISINGLY NOT TOO BAD		
Jul 05 2016	12"	8mm Et	SUPER		
Jun 17 2016	12"	8mm Ds	SURPRISINGLY NICE IN THE MOONLIGHT		
Aug 21 2015	12"	8mm Ds	LP2 FILTER		
Jul 15 2015	12"	8mm Ds			
May 23 2015	12"	11mmT6	EYE CANDY		
May 18 2014	18"	8mm Ds	EYE CANDY.		
Jul 13 2013	18"	7mm TV	EYE CANDY		
Oct 21 2012	8"	25mmPL	ANOTHER SURPRISE AT HOME,ROUND AND DISTINCT		
May 23 2012	18"	17mmAT	EYE CANDY		
Mar 16 2012	18"	17mmAT	2012 M.M.		
Mar 01 2011	12"	17mmAT	M.M. 2011 - MANUAL SETTING CIRCLES		
Mar 08 2010	12"	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		
NGC 6741	Aql		PI Neb 4	PLN,STELLAR	Sanduleak 2-380 Jonckheere 475 PK 33-2.1
Aug 07 2016	12"	8mm Et	PF,VS,R=F. LP3. PHANTOM STREAK.		
Sep 19 2014	12"	11mmT6	PF,PS,R=F, LP-2, NO CENTRAL STAR, HOME - 9/14/14		
Jul 03 2005	8"	11mmT6	VF,ML,PATCH,AV,R=F		
NGC 6742	Dra	H742-3	PI Neb 2c	VF,STELLAR	ABELL 50 PK 78+18.1 PNG 78.5+18.7
Sep 05 2010	12"	5.5mmN	CF,CS,R=F. NO CENTRAL STAR NOTED. OIII ADDS NOTHING.		
NGC 6751	Aql		PI Neb 3	PB,S	Sanduleak 2-382 PK 29-5.1 PNG 29.2-5.9
Oct 09 2018	12"	11mmT6	F,S,R=F. NO CENTRAL STAR. LP2		
Aug 07 2016	12"	8mm Et	PF,PS,R=G. LP3 GLOWING EYE.		
Jul 03 2005	8"	11mmT6	MB,ML,R=G		

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NGC 6765	Lyr		PI Neb 5	F,S,E	Minkowski 1-68 PK 62+9.1 PNG 62.4+9.5
Jun 30 2008	16"	11mmT6	VF,PS,R,NO CENTRAL STAR,R=F		
NGC 6772	Aql	H14-4	PI Neb 3b+2	VF,L,R,VVLBM,R	Sanduleak 2-384 PK 33-6.1 PNG 33.1-6.3
Aug 31 2008	31"	17mmT4	VF,VS,R,R=P,NO CENTRAL STAR		
NGC 6778	Aql		PI Neb 3+3	S,E,ILL-DEFINED DISC	Sanduleak 2-388 PK 34-6.1 PNG 34.5-6.7
Aug 31 2008	31"	17mmT4	PB,PS,R,R=G, NO CENTRAL STAR		
NGC 6781	Aql	H743-3	PI Neb 3+3	PLN,F,L,R,VSBM DISC	PK 41-2.1 PNG 41.8-2.9
Oct 09 2018	12"	11mmT6	B,L,R=G. NO CENTRAL STAR. LP2		
Aug 07 2016	12"	8mm Et	PF,PS,R=G., LP3. LITTLE RING.		
Sep 19 2014	12"	11mmT6	F,PL,OVAL,R=G, LP-2, 3 STARS INSIDE, HOME - 9/14/14		
Sep 13 2009	12"	32mmUW	8TH OBJECT		
Oct 06 2004	8"	11mmT6	MB,OVAL,HISB,R=G		
NGC 6790	Aql		PI Neb 2	PLN,B,ES,STELL=9.5M	PK 37-6.1 PNG 37.8-6.3
Oct 09 2018	12"	11mmT6	VF,VS,R=F. LP2		
Aug 07 2016	12"	8mm Et	PF,VS,R=F. LP3. EYE OF THE EAGLE		
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F		
NGC 6803	Aql		PI Neb 2a	PLN,STELLAR	PK 46-4.1 PNG 46.4-4.1
Jul 25 2017	12"	11mmT6	VF,VS,R=F USED LP2.		
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F		
NGC 6804	Aql	H38-6	PI Neb 4+2	CB,S,IR,RRR	PK 45-4.1 PNG 45.7-4.5
Jul 25 2017	12"	11mmT6	VF,VS,R=F. USED LP2		
Sep 13 2009	12"	32mmUW	9TH OBJECT		
Jul 03 2005	8"	11mmT6	VF,ML,AV,R=F		
NGC 6807	Aql		PI Neb 2	PLN,STELLAR	PK 42-6.1 PNG 42.9-6.9
Aug 31 2008	31"	17mmT4	CF,CS,R,R=P, NO CENTRAL STAR		
NGC 6818	Sgr	H51-4	PI Neb 4	PLN,B,VS,R	Sanduleak 2-392 PK 25-17.1 PNG 25.8-17.9
Sep 19 2014	12"	11mmT6	B,S,ROUND DOT, HOME - 8/14/14		
Jul 09 2005	8"	11mmT6	VB,VS,R,R=G		
NGC 6826	Cyg	H73-4	PI Neb 3a+2	PLN,B,PL,R,*11M	Blinking Planetary PK 83+12.1 PNG 83.5+12.7
Jul 19 2017	12"	11mmT6	F,PS,R=G. SQM=20.01. 71 DEGREES OUT.		
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		
NGC 6833	Cyg		PI Neb 2	PLN,STELLAR	PK 82+11.1 PNG 82.5+11.3
Aug 13 2010	31"	17mmT4	CF,VVS,R=F. STELLAR IN APPEARANCE		

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NGC 6842	Vul		PI Neb 3b	F,PL,VLE	SH2 -95 LBN 19 Henize 2-451
Sep 01 2008	31"	17mmT4	PF,PS,R=P.	NO CENTRAL STAR	
NGC 6852	Aql		PI Neb 4	F NEB,AM ST	Kohoutek 1-18 PK 42-14.1 PNG 42.5-14.5
Jul 25 2017	12"	11mmT6	VF,VS,R=F.	USED LP2	
Aug 13 2010	31"	17mmT4	F,PS,PATCHY,R=F.	NO CENTRAL STAR NOTED.	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F		
NGC 6853	Vul M27		PI Neb 3+2	VB,VL,BIN,IE,DUMBBEL	M 27 Dumbbell Nebula Henize 2-452 PK 60-3.1 PNG 60.8-3.6
Jul 08 2018	12"	17mmT4	B,L,R=E.	NARROWBAND FILTER	
Sep 02 2016	12"	8mm Et	VERY NICE WITH/WITHOUT OIII.		
Aug 07 2016	12"	8mm Et	BRIGHT,LARGE,R=E.	OUTSTANDING EVEN WITHOUT LP3.	
Aug 21 2015	12"	8mm Ds	LP2 FILTER		
Oct 21 2012	8"	11mmT6	B,L,R=G,SURPRISE UNDER THE STREETLIGHTS		
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"	32mmUW	1ST 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		
NGC 6881	Cyg		PI Neb 2a+3	PLN,STELLAR	Henize 2-456 PK 74+2.1 PNG 74.5+2.1
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	
NGC 6884	Cyg		PI Neb 2b	PLN,STELLAR	PK 82+7.1 PNG 82.1+7.0
Jul 23 2006	8"	11mmT6	VF,VS,AV,R=F		
NGC 6886	Sge		PI Neb 2+3	PLN,STELLAR=10M	Henize 2-458 PK 60-7.2 PNG 60.1-7.7
Sep 01 2008	31"	17mmT4	PB,VS,R=F.	NO CENTRAL STAR	
NGC 6891	Del		PI Neb 2a+2b	PLN,STELLAR=9.5M	PK 54-12.1 PNG 54.1-12.1
Sep 25 2006	31"	19mmW	PB,L,R,R=G		
Aug 12 2005	8"	7.5mmW	MF,VS,OVAL,R=F		
NGC 6894	Cyg	H13-4	PI Neb 4+2	RINGNEB,F,S,VVLE	Henize 2-460 PK 69-2.1 PNG 69.4-2.6
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	
NGC 6905	Del	H16-4	PI Neb 3+3	PLN,B,PS,R,4S*NR	Henize 2-466 PK 61-9.1 PNG 61.4-9.5
Jul 25 2017	12"	11mmT6	F,PS,R=G..	USED LP2	
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		

Planetary Nebula Observations

NGC 7008	Cyg	H192-1	PI Neb 3	CB,L,E45,R,**ATT	PK 93+5.2 PNG 93.4+5.4
Aug 02 2005 8"	19mmW	FB,FL,R=G, BEHIND STAR			
NGC 7009	Aqr	H1-4	PI Neb 4+6	PLN,VB,S,ELLIPTIC	Saturn Nebula PK 37.7-34.5
Oct 09 2018 12"	8mm Et	B,S,R=G. NO FILTER. CAN EASILY SEE APPENDEGES			
Jul 08 2018 12"	8mm Et	B,MS,R=G. SATURN NEBULA			
Aug 21 2015 12"	8mm Ds				
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			
NGC 7026	Cyg		PI Neb 3a	PB,BIN,PLN	PK 89+0.1 PNG 89.0+0.3
Jul 07 2018 12"	8mm Et	B,PS,R=G			
Aug 24 2005 8"	11mmT6	MF,MS,PATCHY,AV,R=F			
NGC 7027	Cyg		PI Neb 3a	PLN,STELLAR=8.5M	PK 84-3.1 PNG 84.9-3.4
Aug 24 2005 8"	7.5mmW	VB,VS,R,R=F			
NGC 7048	Cyg		PI Neb 3b	PF,PL,DIF,IR,VLBM	Hubble 9 PK 88-1.1 PNG 88.7-1.6
Aug 24 2005 8"	7.5mmW	VF,ML,PATCHY,AV,R=F			
NGC 7094	Peg		PI Neb 4	*IN EEF NEBY,VDIFFIC	Kohoutek 1-19 PK 66-28.1 PNG 66.7-28.2
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.			
NGC 7139	Cep	H696-3	PI Neb 3b	VF,CS,R,R	PK 104+7.1 PNG 104.1+7.9
Oct 18 2009 12"	11mmT6	VF,PS,R=F. NO OTHER DETAIL = FAINT SMUDGE			
NGC 7293	Aqr		PI Neb 4+3	PF,VL,E OR BIN	Helix Nebula PK 36-57.1 PNG 36.1-57.1
Oct 09 2018 12"	8mm Et	F,L,R=G. LP2			
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.			
NGC 7354	Cep	H705-2	PI Neb 4+3b	PLN,B,S,R,PGVLBM	PK 107+2.1 PNG 107.8+2.3
Sep 07 2005 8"	11mmT6	MB,ML,R,MSB,R=G			
NGC 7662	And	H18-4	PI Neb 4+3	PLN ORRING,VB,PS,R	Blue Snowball PK 106-17.1
Oct 09 2018 12"	8mm Et	PB,S,R=G			
Oct 05 2016 12"	11mmT6	B,S,OIII,R=G. BLUE STREAK NEBULA			
Aug 21 2015 12"	8mm Ds	PRETTY SMALL USED LP2 FILTER			
Aug 24 2012 18"	5mm TV	ROUND AND BRIGHT, OIII, BLUE SNOWBALL, R=E!			
Nov 21 2006 8"	11mmT6	VB,PS,OVAL, NO CENTRAL STAR,R=G			
Aug 23 2004 8"	9mm	SMALL,FAINT. LOOK @ AGAIN LATER!			
PEASE 1	Peg		PI Neb 1		CENTRAL STAR 14.9 MAG
Sep 27 2005 31"	17mmT4	VB,VS,R=F			
PK 158+17.1 FIX			PI Neb 3		PNG 158.9+17.8
Feb 20 2006 31"	17mmT4	DIFF,VS,R=F, OIII FILTER			