

# Planetary Nebula Observations

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

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<b>IC 3568</b>	<b>Cam</b>	<b>PI Neb 2+2a</b>	<b>PK 123+34.1 PNG 123.6+34.5</b>
Jun 07 2010 12"	7.5mmW	PB,VS,R=F. ALMOST STELLER	
<b>IC 4593</b>	<b>Her</b>	<b>PI Neb 2+2</b>	<b>PK 25+40.1 PNG 25.3+40.8</b>
Aug 02 2019 12"	17mm O	PF,VS,R=P. OIII	
Jun 03 2005 31"	19mmW	VB,VS,R,HISB,R=G	
<b>IC 4634</b>	<b>Oph</b>	<b>PI Neb 2a+3</b>	<b>ESO 587-1 Henize 2-189 Sanduleak 2-164</b>
Jul 31 2005 8"	7.5mmW	VVF,VS,AV,R=F	
<b>IC 4673</b>	<b>Sgr</b>	<b>PI Neb 4</b>	<b>ESO 521-15 Minkowski 1-36 Henize 2-333</b>
Sep 05 2007 8"	11mmT6	VF,VS,NO CENTRAL STAR,R=F	
<b>IC 4732</b>	<b>Sgr</b>	<b>PI Neb 1</b>	<b>ESO 523-1 Henize 2-410 Sanduleak 2-345</b>
Sep 05 2007 8"	11mmT6	VF,ES,AV,NO CENTRAL STAR,R=F	
<b>IC 4776</b>	<b>Sgr</b>	<b>PI Neb 2a</b>	<b>ESO 396-2 Henize 2-421 Sanduleak 2-363</b>
Aug 24 2012 18"	8.8 ES	PF,PS, R=F, OIII FILTER,	
<b>IC 4846</b>	<b>Aql</b>	<b>PI Neb 2</b>	<b>Sanduleak 2-385 PK 27-9.1 PNG 27.6-9.6</b>
Jul 19 2017 12"	11mmT6	VF,VS, R=F. LP2 FILTER	
Jul 03 2005 8"	11mmT6	VB,VS,R,R=F	
<b>IC 4997</b>	<b>Sge</b>	<b>PI Neb 1</b>	<b>Henize 2-464 PK 58-10.1 PNG 58.3-10.9</b>
Sep 01 2008 31"	17mmT4	PB,ES,R=F. NO CENTRAL STAR	
<b>IC 5117</b>	<b>Cyg</b>	<b>PI Neb 2</b>	<b>PK 89-5.1 PNG 89.8-5.1</b>
Jul 08 2019 12"	11mmT6	VF,VS,R=P. LP2	
Jul 23 2006 8"	11mmT6	F,VS,R,AV,R=F	
<b>IC 5217</b>	<b>Lac</b>	<b>PI Neb 2</b>	<b>PK 100-5.1 PNG 100.6-5.4</b>
Nov 16 2012 18"	11mmT6	VS,VF,R=F	
<b>J 320</b>	<b>Ori</b>	<b>PI Neb 2+4</b>	<b>PK 190-17.1 Jonckheere 320</b>
Dec 28 2008 31"	17mmT4	F,VS,OVAL,R=F, NO CENTRAL STAR	
Dec 15 2004 8"	7.5mmW	VF,R=F	
<b>MERR 2-2</b>	<b>FIX</b>	<b>PI Neb 1</b>	<b>PK 100-8.1 PNG 100.0-8.7 Merrill 2-2</b>
Jul 24 2006 8"	7.5mmW	VF,VS,R,AV,R=F	
<b>MINK 1-70</b>	<b>Aql</b>	<b>PI Neb 1</b>	<b>PK 45-2.1 PNG 45.4-2.7 Minkowski 1-70 Vyssotsky 2-2</b>
Aug 12 2005 8"	7.5mmW	VF,VS,AV,R=F	
<b>MINK 1-74</b>	<b>FIX</b>	<b>PI Neb 1</b>	<b>Minkowski 1-74 Henize 2-445 PK 52-4.1 PNG 52.2-4.0</b>

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<b>MINK 1-74</b>	<b>FIX</b>		<b>PI Neb 1</b>		<b>Minkowski 1-74 Henize 2-445 PK 52-4.1 PNG 52.2-4.0</b>
Aug 12 2005 8"	7.5mmW	VF,VS,AV,R=F			
<b>MINK 3-34</b>	<b>FIX</b>		<b>PI Neb 2</b>		<b>Minkowski 3-34 Sanduleak 2-390 PK 31-10.1 PNG 31.0-10.8</b>
Jul 03 2005 8"	11mmT6	DIFF,VF,VS,AV,R=F			
<b>NGC 40</b>	<b>Cep</b>	<b>H58-4</b>	<b>PI Neb 3b+3</b>	<b>F,VS,R,VSMBM,*12SP</b>	<b>PK 120+9.1 PNG 120.0+9.8</b>
Jul 17 2020 12"	8mm Et	F,PS,R=G.	LP2,	SAW THE CENTRAL STAR	
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			
<b>NGC 246</b>	<b>Psc</b>	<b>H25-5</b>	<b>PI Neb 3b</b>	<b>VF,L,4*IN DIF NEB</b>	<b>PK 118-74.1 PNG 118.8-74.7</b>
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			
<b>NGC 650</b>	<b>Per</b>	<b>M76</b>	<b>H193-1</b>	<b>PI Neb 3+6</b>	<b>VB,P OF DNEB</b>
					<b>M 76 Little Dumbbell PK 130-10.1 PNG 130.9-10.5</b>
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			
<b>NGC 1360</b>	<b>For</b>		<b>PI Neb 3</b>	<b>*8IN B,LNEB,E NS</b>	<b>ESO 482-7 Minkowski 1-3 PK 220-53.1</b>
Dec 28 2008 31"	17mmT4	PF,PS,EL,R,R=G,	CENTRAL STAR,	OIII	
<b>NGC 1501</b>	<b>Cam</b>	<b>H53-4</b>	<b>PI Neb 3</b>	<b>PLN,PB,PS,VLE,1'DIAM</b>	<b>PK 144+6.1 PNG 144.5+6.5</b>
Oct 06 2004 8"	11mmT6	MB,OVAL,HISB,R=G			
<b>NGC 1514</b>	<b>Tau</b>	<b>H69-4</b>	<b>PI Neb 3+2</b>	<b>*9IN NEB3'DIAM</b>	<b>PK 165-15.1 PNG 165.5-15.2</b>
Dec 04 2004 8"	11mmT6	VB,HISB,R=G			
<b>NGC 1535</b>	<b>Eri</b>	<b>H26-4</b>	<b>PI Neb 4+2c</b>	<b>PLN,VB,S,R,PS,VSMB,R</b>	<b>PK 206-40.1 PNG 206.4-40.5</b>
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		
<b>NGC 2022</b>	<b>Ori</b>	<b>H34-4</b>	<b>PI Neb 4+2</b>	<b>PLN,PB,VS,VLE</b>	<b>PK 196-10.1 PNG 196.6-10.9</b>
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		

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<b>NGC 2346</b>	<b>Mon</b>	<b>H65-4</b>	<b>PI Neb 3b+4</b>	<b>*10AFF W/ S,VF,NEB</b>	<b>Minkowski 1-10 Sanduleak 2-5 PK 215+3.1</b>
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY			
Apr 09 2008 8"	11mmT6	PF,PS,NO CENTRAL STAR,R=F			
<b>NGC 2371</b>	<b>Gem</b>	<b>H316-2</b>	<b>PI Neb 3a+2</b>	<b>B,S,R,BMN,P OF DNEB</b>	<b>NGC 2372</b>
Feb 23 2006 31"	19mmW	FAIRLY LONG, ELONG,MSB,R=G			
Dec 04 2004 8"	7.5mmW	MF,OVAL,R=G			
<b>NGC 2392</b>	<b>Gem</b>	<b>H45-4</b>	<b>PI Neb 3b+3b</b>	<b>B,S,R,*9M,*8NF100"</b>	<b>Eskimo Nebula PGC 21128</b>
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			
<b>NGC 2438</b>	<b>Pup</b>	<b>H39-4</b>	<b>PI Neb 4+2</b>	<b>PLN,PB,PS,VLE,R</b>	<b>Sanduleak 2-13 PK 231+4.2 PNG 231.8+4.1</b>
Feb 17 2012 18"	11mmT6	OIII FILTER - VERY NICE PLANETARY			
Mar 13 2007 8"	7.5mmW	VF,VS,R=F, NO CENTRAL STAR			
<b>NGC 2440</b>	<b>Pup</b>	<b>H64-4</b>	<b>PI Neb 5+3</b>	<b>PLN,CB,NOT VWELL DEF</b>	<b>ESO 560-9 Sanduleak 2-14 PK 234+2.1</b>
Feb 17 2012 18"	7mm TV	OIII FILTER - VERY NICE PLANETARY			
Mar 13 2007 8"	7.5mmW	F,PS,R=F,IRREGULAR IN SHAPE			
<b>NGC 2452</b>	<b>Pup</b>		<b>PI Neb 4+3</b>	<b>PLN,F,S,LE,AM60*</b>	<b>ESO 493-11 RCW 17 Henize 2-4</b>
Nov 22 2006 8"	11mmT6	PF,PS,R=F			
<b>NGC 2610</b>	<b>Hya</b>	<b>H35-4</b>	<b>PI Neb 4+2</b>	<b>F,S,ATTTO*13,*7NF</b>	<b>Sanduleak 2-27 PK 239+13.1 PNG 239.6+13.9</b>
Mar 29 2006 8"	11mmT6	PF,PS,R=F			
<b>NGC 3242</b>	<b>Hya</b>	<b>H27-4</b>	<b>PI Neb 4+3b</b>	<b>PLN,VB,LE147,45"D</b>	<b>Ghost of Jupiter ESO 568-5</b>
May 22 2015 12"	8mm Ds	NO FILTER CENTRAL STAR NOT VISIBLE			
Apr 08 2005 8"	7.5mmW	VB,VL,R,R=G			
<b>NGC 3587</b>	<b>UMa M97</b>		<b>PI Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>	<b>M 97 Owl Nebula PK 148+57.1 PNG 148.4+57.0</b>
Jun 19 2020 12"	13mmHW	GOOD			
Mar 25 2020 12"	11mmT6	CORVID-19 LOCKDOWN. DRIVEWAY OBSERVING			
May 31 2019 12"	11mmT6	WAS HARD TO SEE. OIII DIDN'T HELP.			
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			

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<b>NGC 3587</b>	<b>UMa M97</b>		<b>PI Neb 3a</b>	<b>PLN,VB,VL,R,VVG,VSBM</b>	<b>M 97 Owl Nebula PK 148+57.1 PNG 148.4+57.0</b>
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		
<b>NGC 4361</b>	<b>Crv</b>	<b>H65-1</b>	<b>PI Neb 3a+2</b>	<b>VB,L,R,VSMBMN,R</b>	<b>ESO 573-19 PK 294+43.1 PNG 294.1+43.6</b>
May 04 2005 8"	11mmT6		VF,VS,R,AV,R=F		
<b>NGC 6058</b>	<b>Her</b>	<b>H637-3</b>	<b>PI Neb 3+2</b>	<b>PF,VS,R,STELLAR</b>	<b>PK 64+48.1 PNG 64.6+48.2</b>
Nov 13 2007 8"	11mmT6		VF,VS,AV,R=F, NO CENTRAL STAR		
<b>NGC 6153</b>	<b>Sco</b>		<b>PI Neb 4</b>	<b>PLN,STELLAR</b>	<b>ESO 331-6 RCW 112 Henize 2-167</b>
Jul 14 2010 12"	7.5mmW		PF,CS,R,R=F, NO CENTRAL STAR OBSERVED.		
<b>NGC 6210</b>	<b>Her</b>		<b>PI Neb 2+3b</b>	<b>PLN,VB,VS,R,DISC</b>	<b>PK 43+37.1 PNG 43.1+37.7</b>
Aug 02 2019 12"	17mm O		B,VS,R=F. OIII		
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		
<b>NGC 6302</b>	<b>Sco</b>		<b>PI Neb 6</b>	<b>PB,E PF,(SWIFT,TRIP)</b>	<b>Bug Nebula ESO 392-5 Gum 60 RCW 124 Henize 2-204 PK 349+1.1</b>
Jul 07 2018 12"	8mm Et		PB,S,R=E. OIII FILTER		
Jul 09 2005 8"	11mmT6		MB,VS,R,R=G		
<b>NGC 6309</b>	<b>Oph</b>		<b>PI Neb 3b+6</b>	<b>B,S,BET2*VNR</b>	<b>Box Nebula Henize 2-206 PK 9+14.1 Sanduleak 2-281</b>
Jun 19 2020 12"	8mm Et		EXCELLENT LP2 FILTER		
Aug 24 2019 12"	8mm Et		F,S,OBLONG IN SHAPE. OIII.		
Jul 03 2005 8"	11mmT6		MF,MS,PATCHY,R=F		
<b>NGC 6337</b>	<b>Sco</b>		<b>PI Neb 4</b>	<b>RINGNEB,EF,S,AM ST</b>	<b>ESO 333-5 Henize 2-215 Sanduleak 2-191</b>
Jul 31 2011 12"	7mm TV		F,VS,,R=F,SMUDGE WITH TWO FOREGROUND STARS		
<b>NGC 6369</b>	<b>Oph</b>	<b>H11-4</b>	<b>PI Neb 4+2</b>	<b>RINGNEB,PB,S,R</b>	<b>ESO 520-3 Henize 2-232 Sanduleak 2-207</b>
Jun 19 2020 12"	8mm Et		PRETTY NICE, OIII FILTER		
Jul 07 2018 12"	8mm Et		PF,S,R=G. OIII FILTER		
Jul 09 2005 8"	11mmT6		MB,MS,R,R=G		
<b>NGC 6445</b>	<b>Sgr</b>	<b>H586-2</b>	<b>PI Neb 3b+3</b>	<b>PB,PS,R,GBM,R,*15NP</b>	<b>Little Gem ESO 589-9 Henize 2-290</b>
Jun 24 2020 12"	8mm Et		PF,S,R=G. LP2 FILTER		
Jul 08 2018 12"	17mmT4		B,S,R=G.		
Jul 09 2005 8"	11mmT6		MB,ML,MSB,R=G		
<b>NGC 6537</b>	<b>Sgr</b>		<b>PI Neb 2a+6</b>	<b>PLN,B,S,STELLAR</b>	<b>ESO 590-1 Henize 2-340 Sanduleak 2-294</b>

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<b>NGC 6537</b>	<b>Sgr</b>		<b>PI Neb 2a+6</b>	<b>PLN,B,S,STELLAR</b>	<b>ESO 590-1 Henize 2-340 Sanduleak 2-294</b>
Aug 12 2005	8"	7.5mmW	VF,VS,AV,R=F		
<b>NGC 6543</b>	<b>Dra</b>	<b>H37-4</b>	<b>PI Neb 3a+2</b>	<b>PLN,VB,PS,SBMVS</b>	<b>the Cat's Eye Nebula</b>
May 31 2019	12"	11mmT6			
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		
<b>NGC 6563</b>	<b>Sgr</b>		<b>PI Neb 3a</b>	<b>PLN,F,L,CE,HAZY EDGE</b>	<b>ESO 394-33 Henize 2-361 Sanduleak 2-308</b>
Aug 29 2010	12"	7mm TV	PF,PS,R=F. NO CENTRAL STAR NOTED		
<b>NGC 6567</b>	<b>Sgr</b>		<b>PI Neb 2a+3</b>	<b>PLN,STELL,11M,IN ACL</b>	<b>ESO 590-8 Henize 2-369 Sanduleak 2-314</b>
Sep 05 2007	8"	11mmT6	VF,PS,NO CENTRAL STAR,R=F		
<b>NGC 6572</b>	<b>Oph</b>		<b>PI Neb 2a</b>	<b>PLN,VB,VS,R,LHAZY</b>	<b>PK 34+11.1 PNG 34.6+11.8</b>
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		
<b>NGC 6629</b>	<b>Sgr</b>	<b>H204-2</b>	<b>PI Neb 2a</b>	<b>PLNORGCL,PB,EES,R</b>	<b>ESO 522-26 Henize 2-399 Sanduleak 2-335</b>
Jul 07 2018	12"	8mm Et	B,S,R=F. OIII FILTER		
Jul 09 2005	8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 6644</b>	<b>Sgr</b>		<b>PI Neb 2</b>	<b>PLN,STELLAR</b>	<b>ESO 522-23 Henize 2-408 Sanduleak 2-343</b>
Sep 05 2007	8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 6720</b>	<b>Lyr M57</b>		<b>PI Neb 4+3</b>	<b>RINGNEB,B,PL,CE,LYRA</b>	<b>M 57 Ring Nebula PK 63+13.1 PNG 63.1+13.9</b>
Jul 26 2020	12"	17mmT4	NV+IR685 FILTER. INVISIBLE NO MATTER WHAT FILTER I USED.		
Jun 19 2020	12"	8mm Et	GOOD		
Jun 28 2019	12"	17mmT4	NICE VIEW WITH FILTER AND W/O.		
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		

# Planetary Nebula Observations

<b>NGC 6720</b>	<b>Lyr M57</b>	<b>PI Neb 4+3</b>	<b>RINGNEB,B,PL,CE,LYRA</b>	<b>M 57 Ring Nebula PK 63+13.1 PNG 63.1+13.9</b>	
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			
<b>NGC 6741</b>	<b>Aql</b>	<b>PI Neb 4</b>	<b>PLN,STELLAR</b>	<b>Sanduleak 2-380 Jonckheere 475 PK 33-2.1</b>	
Aug 29 2019 12"	11mmT6	F,VS,R=F. LP2			
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			
<b>NGC 6742</b>	<b>Dra</b>	<b>H742-3</b>	<b>PI Neb 2c</b>	<b>VF,STELLAR</b>	<b>ABELL 50 PK 78+18.1 PNG 78.5+18.7</b>
Sep 05 2010 12"	5.5mmN	CF,CS,R=F. NO CENTRAL STAR NOTED. OIII ADDS NOTHING.			
<b>NGC 6751</b>	<b>Aql</b>	<b>PI Neb 3</b>	<b>PB,S</b>	<b>Sanduleak 2-382 PK 29-5.1 PNG 29.2-5.9</b>	
Aug 29 2019 12"	11mmT6	F,PS,R=G. BRIGHTER, LP2			
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			
<b>NGC 6765</b>	<b>Lyr</b>	<b>PI Neb 5</b>	<b>F,S,E</b>	<b>Minkowski 1-68 PK 62+9.1 PNG 62.4+9.5</b>	
Jun 30 2008 16"	11mmT6	VF,PS,R,NO CENTRAL STAR,R=F			
<b>NGC 6772</b>	<b>Aql</b>	<b>H14-4</b>	<b>PI Neb 3b+2</b>	<b>VF,L,R,VVLBM,R</b>	<b>Sanduleak 2-384 PK 33-6.1 PNG 33.1-6.3</b>
Aug 31 2008 31"	17mmT4	VF,VS,R,R=P,NO CENTRAL STAR			
<b>NGC 6778</b>	<b>Aql</b>	<b>PI Neb 3+3</b>	<b>S,E,ILL-DEFINED DISC</b>	<b>Sanduleak 2-388 PK 34-6.1 PNG 34.5-6.7</b>	
Aug 31 2008 31"	17mmT4	PB,PS,R,R=G, NO CENTRAL STAR			
<b>NGC 6781</b>	<b>Aql</b>	<b>H743-3</b>	<b>PI Neb 3+3</b>	<b>PLN,F,L,R,VSBM DISC</b>	<b>PK 41-2.1 PNG 41.8-2.9</b>
Aug 29 2019 12"	11mmT6	F,S,R=G. RESPONDED BETTER TO OIII.			
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			
<b>NGC 6790</b>	<b>Aql</b>	<b>PI Neb 2</b>	<b>PLN,B,ES,STELL=9.5M</b>	<b>PK 37-6.1 PNG 37.8-6.3</b>	
Aug 29 2019 12"	11mmT6	F,VS,R=F. LP2			
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			

# Planetary Nebula Observations

<b>NGC 6803</b>	<b>Aql</b>		<b>PI Neb 2a</b>	<b>PLN,STELLAR</b>	<b>PK 46-4.1 PNG 46.4-4.1</b>
Jul 25 2017	12"	11mmT6	VF,VS,R=F	USED LP2.	
Jul 03 2005	8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 6804</b>	<b>Aql</b>	<b>H38-6</b>	<b>PI Neb 4+2</b>	<b>CB,S,IR,RRR</b>	<b>PK 45-4.1 PNG 45.7-4.5</b>
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		
<b>NGC 6807</b>	<b>Aql</b>		<b>PI Neb 2</b>	<b>PLN,STELLAR</b>	<b>PK 42-6.1 PNG 42.9-6.9</b>
Aug 31 2008	31"	17mmT4	CF,CS,R,R=P,	NO CENTRAL STAR	
<b>NGC 6818</b>	<b>Sgr</b>	<b>H51-4</b>	<b>PI Neb 4</b>	<b>PLN,B,VS,R</b>	<b>Sanduleak 2-392 PK 25-17.1 PNG 25.8-17.9</b>
Sep 19 2014	12"	11mmT6	B,S,ROUND DOT,	HOME - 8/14/14	
Jul 09 2005	8"	11mmT6	VB,VS,R,R=G		
<b>NGC 6826</b>	<b>Cyg</b>	<b>H73-4</b>	<b>PI Neb 3a+2</b>	<b>PLN,B,PL,R,*11M</b>	<b>Blinking Planetary PK 83+12.1 PNG 83.5+12.7</b>
May 31 2019	12"	11mmT6			
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		
<b>NGC 6833</b>	<b>Cyg</b>		<b>PI Neb 2</b>	<b>PLN,STELLAR</b>	<b>PK 82+11.1 PNG 82.5+11.3</b>
Aug 13 2010	31"	17mmT4	CF,VVS,R=F.	STELLAR IN APPEARANCE	
<b>NGC 6842</b>	<b>Vul</b>		<b>PI Neb 3b</b>	<b>F,PL,VLE</b>	<b>SH2 -95 LBN 19 Henize 2-451</b>
Sep 01 2008	31"	17mmT4	PF,PS,R=P.	NO CENTRAL STAR	
<b>NGC 6852</b>	<b>Aql</b>		<b>PI Neb 4</b>	<b>F NEB,AM ST</b>	<b>Kohoutek 1-18 PK 42-14.1 PNG 42.5-14.5</b>
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		
<b>NGC 6853</b>	<b>Vul M27</b>		<b>PI Neb 3+2</b>	<b>VB,VL,BIN,IE,DUMBDEL</b>	<b>M 27 Dumbbell Nebula Henize 2-452 PK 60-3.1 PNG 60.8-3.6</b>
Jul 26 2020	12"	17mmT4	NV+IR685 FILTER.	INVISIBLE NO MATTER WHAT FILTER I USED.	
Jul 17 2020	12"	30mmES	OUTSTANDING		
Jun 24 2020	12"	20mmOP	OUTSTANDING.	R=E	
Jun 19 2020	12"	13mmHW	B,L,R=E.	NO FILTER AND STILL LOOKED GOOD.	
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	



# Planetary Nebula Observations

<b>NGC 6853</b>	<b>Vul M27</b>	<b>PI Neb 3+2</b>	<b>VB,VL,BIN,IE,DUMBBEL</b>	<b>M 27 Dumbbell Nebula Henize 2-452</b> <b>PK 60-3.1 PNG 60.8-3.6</b>
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		
<b>NGC 6881</b>	<b>Cyg</b>	<b>PI Neb 2a+3</b>	<b>PLN,STELLAR</b>	<b>Henize 2-456 PK 74+2.1 PNG 74.5+2.1</b>
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		
<b>NGC 6884</b>	<b>Cyg</b>	<b>PI Neb 2b</b>	<b>PLN,STELLAR</b>	<b>PK 82+7.1 PNG 82.1+7.0</b>
Jul 08 2019 12"	11mmT6	B,S,R=F. LP2		
Jul 23 2006 8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 6886</b>	<b>Sge</b>	<b>PI Neb 2+3</b>	<b>PLN,STELLAR=10M</b>	<b>Henize 2-458 PK 60-7.2 PNG 60.1-7.7</b>
Sep 01 2008 31"	17mmT4	PB,VS,R=F. NO CENTRAL STAR		
<b>NGC 6891</b>	<b>Del</b>	<b>PI Neb 2a+2b</b>	<b>PLN,STELLAR=9.5M</b>	<b>PK 54-12.1 PNG 54.1-12.1</b>
Aug 29 2019 12"	11mmT6	B,VS,R=G. LP2		
Sep 25 2006 31"	19mmW	PB,L,R,R=G		
Aug 12 2005 8"	7.5mmW	MF,VS,OVAL,R=F		
<b>NGC 6894</b>	<b>Cyg</b>	<b>H13-4</b>	<b>PI Neb 4+2</b>	<b>RINGNEB,F,S,VVLE</b>
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		
<b>NGC 6905</b>	<b>Del</b>	<b>H16-4</b>	<b>PI Neb 3+3</b>	<b>PLN,B,PS,R,4S*NR</b>
Aug 29 2019 12"	11mmT6	F,S,R=G. LP2		
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		
<b>NGC 7008</b>	<b>Cyg</b>	<b>H192-1</b>	<b>PI Neb 3</b>	<b>CB,L,E45,R,**ATT</b>
Jul 08 2019 12"	11mmT6	F,L,R=G. LP2. NO CENTRAL STAR NOTED.		
Aug 02 2005 8"	19mmW	FB,FL,R=G, BEHIND STAR		
<b>NGC 7009</b>	<b>Aqr</b>	<b>H1-4</b>	<b>PI Neb 4+6</b>	<b>PLN,VB,S,ELLIPTIC</b>
Aug 29 2019 12"	11mmT6	B,PS,R=G. LP2.		
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		

# Planetary Nebula Observations

<b>NGC 7026</b>	<b>Cyg</b>		<b>PI Neb 3a</b>	<b>PB,BIN,PLN</b>	<b>PK 89+0.1 PNG 89.0+0.3</b>
Jul 07 2018	12"	8mm Et	B,PS,R=G		
Aug 24 2005	8"	11mmT6	MF,MS,PATCHY,AV,R=F		
<b>NGC 7027</b>	<b>Cyg</b>		<b>PI Neb 3a</b>	<b>PLN,STELLAR=8.5M</b>	<b>PK 84-3.1 PNG 84.9-3.4</b>
Jul 08 2019	12"	11mmT6	B,PS,R=G. OIII		
Aug 24 2005	8"	7.5mmW	VB,VS,R,R=F		
<b>NGC 7048</b>	<b>Cyg</b>		<b>PI Neb 3b</b>	<b>PF,PL,DIF,IR,VLBM</b>	<b>Hubble 9 PK 88-1.1 PNG 88.7-1.6</b>
Aug 24 2005	8"	7.5mmW	VF,ML,PATCHY,AV,R=F		
<b>NGC 7094</b>	<b>Peg</b>		<b>PI Neb 4</b>	<b>*IN EEF NEBY,VDIFFIC</b>	<b>Kohoutek 1-19 PK 66-28.1 PNG 66.7-28.2</b>
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.		
<b>NGC 7139</b>	<b>Cep</b>	<b>H696-3</b>	<b>PI Neb 3b</b>	<b>VF,CS,R,R</b>	<b>PK 104+7.1 PNG 104.1+7.9</b>
Jul 17 2020	12"	8mm Et	VF,S,R=G. NO CENTRAL STAR		
Oct 18 2009	12"	11mmT6	VF,PS,R=F. NO OTHER DETAIL = FAINT SMUDGE		
<b>NGC 7293</b>	<b>Aqr</b>		<b>PI Neb 4+3</b>	<b>PF,VL,E OR BIN</b>	<b>Helix Nebula PK 36-57.1 PNG 36.1-57.1</b>
Aug 29 2019	12"	11mmT6	F,L,R=G. LP2		
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.		
<b>NGC 7354</b>	<b>Cep</b>	<b>H705-2</b>	<b>PI Neb 4+3b</b>	<b>PLN,B,S,R,PGVLBM</b>	<b>PK 107+2.1 PNG 107.8+2.3</b>
Jul 17 2020	12"	8mm Et	F,VS,R=F. LP2 DID NOT SEE CENTRAL STAR		
Sep 07 2005	8"	11mmT6	MB,ML,R,MSB,R=G		
<b>NGC 7662</b>	<b>And</b>	<b>H18-4</b>	<b>PI Neb 4+3</b>	<b>PLN ORRING,VB,PS,R</b>	<b>Blue Snowball PK 106-17.1</b>
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!		
<b>PEASE 1</b>	<b>Peg</b>		<b>PI Neb 1</b>		<b>CENTRAL STAR 14.9 MAG</b>
Sep 27 2005	31"	17mmT4	VB,VS,R=F		
<b>PK 158+17.1 FIX</b>			<b>PI Neb 3</b>		<b>PNG 158.9+17.8</b>
Feb 20 2006	31"	17mmT4	DIFF,VS,R=F, OIII FILTER		