

## Cygnus - The Swan

<b>CR 419</b>			<b>Open Cluster IV2p</b>
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, SOME NEBULASITY	
<b>CR 421</b>			<b>Open Cluster III1pn</b>
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, FEWER STARS	
<b>CR 428</b>			<b>Open Cluster IV1pn</b>
Aug 24 2005 8"	19mmW	R=F, LOOSE GROUP, FEWER STARS	
<b>CR 470</b>			<b>Galaxy</b>
Jun 20 2007 1.9"	12x50	F,S,R=F, HINT-NEBULOSITY, INV. W/IC 5146	
Jun 26 2004 8"	25mmPL	INVOLVED W/ IC 5146	
<b>HENIZ 2-438</b>			<b>Planetary Neb 4</b>
Aug 18 2010 12"	26mm	PF,VS,R=F,STELLAR IN APPEARANCE,OIII FILTER	
<b>IC 1301</b>			<b>Galaxy Scd:</b>
Aug 13 2010 31"	17mmT4	CF,PS,OVAL,UB,NND,R=F	
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>IC 1302</b>			<b>Galaxy SAB(s)c?</b>
Aug 13 2010 31"	17mmT4	PF,CS,OVAL,MEXT,UB,NND,R=F	
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>IC 1303</b>			<b>Galaxy SAc:</b>
Aug 13 2010 31"	17mmT4	PF,CS,OVAL,PEXT,UB,NND,R=F	
Jul 27 2009 16"	11mmT6	VF,VS,OVAL,NND,AV,R=F	
<b>IC 1311</b>			<b>Open Cluster 17.0 I 1 r n</b>
Aug 02 2005 8"	19mmW	NICE CLUSTER, NICER NEBULA	
<b>IC 1318</b>			<b>Nebula E</b>
Aug 18 2010 12"	26mm	F,PL,R=G,IRREGULAR SHAPE,LARGE,OIII FILTER	
<b>IC 1369</b>			<b>Open Cluster 12.1 II 2 m</b>
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>IC 1392</b>			<b>Galaxy S0-:</b>
Jul 23 2006 8"	7.5mmW	VF,ES,OVAL,NND,AV,R=F	
<b>IC 4867</b>			<b>Galaxy S0</b>
Aug 13 2010 31"	17mmT4	PF,PS,OVAL,MEXT,FNUC,R=F	
Jul 27 2009 16"	11mmT6	PF,PS,OVAL,NND,AV,R=F	
<b>IC 4996</b>			<b>Open Cluster 8.0 II 3 p n</b>
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	<b>APPROX 15 STARS</b>

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<b>IC 5067</b>			<b>Nebula EN</b>	
Jul 24 2006	8"	25mmPL	PF,CL,R=F	
<b>IC 5068</b>			<b>Nebula E</b>	
Aug 18 2010	12"	26mm	PF,PL,R=P,ROUGHLY-RECTANGULAR SHAPE,DIM,OIII FILTER	
<b>IC 5070</b>			<b>Non-Existent</b>	
Jul 19 2017	12"	27m PN	F,PL,R=F.	
Jul 15 2015	12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jun 20 2007	1.9"	12x50	PF,VL,R=F, HINT OF NEBULOSITY	
Aug 02 2005	8"	19mmW	L,F,R=F	
<b>IC 5076</b>			<b>Nebula E</b>	
Nov 13 2007	8"	11mmT6	PF,PS,HINT OF NEBULOSITY,R=F	
<b>IC 5117</b>			<b>Planetary Neb 2</b>	
Jul 23 2006	8"	11mmT6	F,VS,R,AV,R=F	
<b>IC 5146</b>			<b>Nebula E</b>	
Jun 20 2007	1.9"	12x50	F,S,R=F, HINT OF NEBULOSITY	
Jun 26 2004	8"	7.5mmW	INVOLVED WITH CR 470	
<b>NGC 6764</b>			<b>Galaxy SB(s)bc</b>	<b>PF,PL,ME,SEVVF*INV</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6783</b>			<b>Galaxy C</b>	<b>EF,DIFFIC</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6798</b>			<b>Galaxy S0</b>	<b>F,VS,R,*VNR</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6801</b>			<b>Galaxy SAcd</b>	<b>EF,PS,R,F*S NR</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6811</b>			<b>Open Cluster 11.0 III 1 r</b>	<b>CL,L,PRI,LC,ST11..14</b>
Oct 30 2007	1.9"	12x50	F,PS,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 6819</b>			<b>Open Cluster 11.0 I 1 r</b>	<b>CL,VL,VRI,*11...15</b>
Oct 08 2006	1.9"	12x50	N.S.R=F, TIGHTER GROUP	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 6824</b>			<b>H878-2 Galaxy SA(s)b:</b>	<b>PB,IF,BM</b>
Nov 13 2007	8"	11mmT6	CF,CS,R,UB,NND,R=F	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6826</b>			<b>H73-4 Planetary Neb 3a+2</b>	<b>PLN,B,PL,R,*11M</b>

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<b>NGC 6826</b>		<b>H73-4</b>	<b>Planetary Neb 3a+2</b>	<b>PLN,B,PL,R,*11M</b>
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>Planetary Neb 2</b>	<b>PLN,STELLAR</b>
Aug 13 2010 31"	17mmT4	CF,VVS,R=F.	STELLAR IN APPEARANCE	
<b>NGC 6834</b>		<b>H16-8</b>	<b>Open Cluster 11.0 II 2 m</b>	<b>CL,P,LC,*11...12</b>
Jul 23 2006 8"	19mmW	PB,PS,R=F,	LOOSE GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD		
<b>NGC 6846</b>			<b>Open Cluster 12.8 II 2</b>	<b>EF,VS,3*INV</b>
Aug 13 2010 31"	17mmT4	F,CS,R=F		
Jul 27 2009 16"	11mmT6	PF,VS,R=F		
<b>NGC 6857</b>		<b>H144-3</b>	<b>Nebula HII</b>	<b>F,AM MILKY WAY ST</b>
Aug 02 2005 8"	19mmW	MB,VL,HISB,R=G		
<b>NGC 6866</b>		<b>H59-7</b>	<b>Open Cluster 10.0 II 2 r</b>	<b>CL,L,VRI,CC</b>
Jul 23 2006 8"	19mmW	PB,PS,R=F,	EXTENDED GROUP	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD		
<b>NGC 6871</b>			<b>Open Cluster 6.8 II 2 p n</b>	<b>CL,ST L\$,D*INV</b>
Oct 30 2007 1.9"	12x50	B,S,R=F		
Oct 13 2006 8"	19mmW	B,L,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6874</b>		<b>H86-8</b>	<b>Non-Existent</b>	<b>CL,P,LC</b>
Jul 27 2009 16"	11mmT6	PB,PS,,	LOOSE GROUP, R=F	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6881</b>			<b>Planetary Neb 2a+3</b>	<b>PLN,STELLAR</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 6883</b>			<b>Open Cluster IV 2 m n</b>	<b>CL,PRI,**INV</b>
Oct 30 2007 1.9"	12x50	PB,S,R=F		
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON		
<b>NGC 6884</b>			<b>Planetary Neb 2b</b>	<b>PLN,STELLAR</b>
Jul 23 2006 8"	11mmT6	VF,VS,AV,R=F		
<b>NGC 6888</b>		<b>H72-4</b>	<b>Nebula E</b>	<b>F,VL,VME,**ATT</b>
Oct 12 2012 18"	17mmT4	FINE OBJECT IN JOHN'S 20" OBSESSION,	OIII FILTER	

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<b>NGC 6888</b>		<b>H72-4</b>	<b>Nebula E</b>	<b>F,VL,VME,**ATT</b>
Oct 12 2012	36"	17mmT4	FINE NEBULA IN CYGNUS, OUTSTANDING OBJECT, OIII FILTER	
Jul 24 2006	8"	25mmPL	PF,PL,PATCHEY,R=F	
<b>NGC 6894</b>		<b>H13-4</b>	<b>Planetary 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 6910</b>		<b>H56-8</b>	<b>Open Cluster 9.6 I 3 m n</b>	<b>CL,PB,PS,P,PC,*20.12</b>
Oct 08 2006	1.9"	12x50	PF,PS,R=F	
Jul 23 2006	8"	19mmW	CB,PS,R=F,BRIGHTER,TIGHTER	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 6913</b>		<b>M29</b>	<b>Open Cluster 9.0 II 3 m n</b>	<b>CL,P,LC,STL\$\$</b>
Jul 19 2017	12"	17mmT4	VERY NICE. R=G	
Jul 01 2016	12"	35mm A	B,L,R=G	
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	
Mar 20 2009	16"	26mm	MESSIER MARATHON - 2009	
Aug 16 2006	1.9"	12x50	B,S,R=F	
Mar 27 2006	8"	19mmW	S,LOOSE,R=F	
Jun 19 2004	8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 6914</b>			<b>Nebula R</b>	<b>VF,VL,IR,DIF,2*ATT P</b>
Jul 24 2006	8"	25mmPL	PF,PS,PATCHY,R=F	
<b>NGC 6914A</b>			<b>Nebula R</b>	
Aug 18 2010	12"	11mmT6	CF,PS,R=F,FAINT HINT OF NEBULOSITY, OIII FILTER, STARS 5+	
<b>NGC 6914B</b>			<b>Nebula R</b>	
Aug 18 2010	12"	11mmT6	CF,PS,R=P,FAINT HINT OF NEBULOSITY,OIII FILTER STARS 2	
<b>NGC 6916</b>			<b>Galaxy SBbc</b>	<b>EEF,PS,F*NR P,VDIFFI</b>
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 6960</b>		<b>H15-5</b>	<b>Nebula E</b>	<b>PB,CL,EIF,KAPPACYGIN</b>
Jul 08 2018	12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017	12"	27m PN	F,L,R=E. LP2. NICE CONTRAST	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
Jul 25 2011	12"	32mmUV	B,VL,R=E!! LP-2 FILTER, EXTENDS N.E. TO S.W WITH N.E. LARGER	
Jun 20 2007	1.9"	12x50	PF,PL,R=F, HINT OF NEBULOSITY	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 6974</b>			<b>Nebula EN</b>	<b>NEB*,NEBY CE PF</b>
Aug 07 2016	12"	27m PN	BRIGHT,LARGE,R=E. LP3.	

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<b>NGC 6974</b>		<b>Nebula EN</b>	<b>NEB*,NEBY CE PF</b>
Aug 18 2010 12"	11mmT6	CF,PS,R=P, LONG-NARROW, OIII FILTER	
<b>NGC 6979</b>		<b>H206-2</b>	<b>Non-Existent</b>
Aug 07 2016 12"	27m PN	BRIGHT, LARGE, F=E. LP3. SQM-19.81, 62 DEGREES F.	
Jun 20 2007 1.9"	12x50	PF, PL, R=F, HINT OF NEBULOSITY	
<b>NGC 6991</b>		<b>H76-8</b>	<b>Open Cluster 5.7 III 2 n</b>
Nov 13 2007 8"	11mmT6	PB, PL, R=G, STARS=30+, 3 ROWS?	<b>CL,L,P,VLC</b>
<b>NGC 6992</b>		<b>H14-5</b>	<b>Nebula E</b>
Jul 01 2016 12"	35mm A	GREAT, R=E!! LP2 FILTER	<b>EF,EL,EE,EIF,BIFID</b>
Jul 25 2011 12"	32mmUV	B,L,R=E! LP-2 FILTER, WISPY FILEMENTS	
Jun 20 2007 1.9"	12x50	PF,L,R=F, HINT OF NEBULOSITY	
Jun 26 2004 8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 6995</b>		<b>Non-Existent</b>	<b>F,EL,NEB\$ST INGROUPS</b>
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017 12"	27m PN	F,L,R=E!! LP2 FILTER. SHOWPIECE OBJECT.	
Jun 20 2007 1.9"	12x50	PF, PL, R=F, HINT OF NEBULOSITY	
Aug 02 2005 8"	19mmW	VB, VL, PATCHY, R=G. NEAT	
<b>NGC 6996</b>		<b>Open Cluster 11.0 III 2 m n</b>	<b>CL,P,LC</b>
Aug 18 2010 12"	11mmT6	F,S,R=F, NICE GROUPING, STARS 20+	
<b>NGC 6997</b>		<b>H58-8</b>	<b>Open Cluster III 2 m n</b>
Nov 13 2007 8"	11mmT6	PF, PS, LOOSE GROUP, R=F	<b>CL,P,LC,ST L</b>
Aug 23 2004 8"	11mmT6	DAMP - SEEING NOT TOO BAD.	
Jul 16 2004 8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
<b>NGC 7000</b>		<b>H37-5</b>	<b>Nebula E</b>
Jul 08 2018 12"	35mm A	B,L,R=E!! NARROWBAND FILTER	<b>F,EEL,DIF NEBULOSITY</b>
Jul 19 2017 12"	35mm A	OUTSTANDING.	
Jul 01 2016 12"	35mm A	GREAT, R=E!! LP2 FILTER	
Aug 21 2015 12"	35mm A	LP2 FILTER	
Jul 15 2015 12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jul 25 2011 12"	32mmUV	B,VL,R=E!! LP-2 FILTER, OUTSTANDING	
Jun 20 2007 1.9"	12x50	F,EL,R=G, LITTLE BETTER	
Aug 02 2005 8"	19mmW	PRETTY LARGE, PRETTY BRIGHT, PRETTY NEAT	
<b>NGC 7008</b>		<b>H192-1</b>	<b>Planetary Neb 3</b>
Aug 02 2005 8"	19mmW	FB, FL, R=G, BEHIND STAR	<b>CB,L,E45,R,**ATT</b>
<b>NGC 7013</b>		<b>H203-2</b>	<b>Galaxy SA(r)0/a</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	<b>PB,CS,R,PSBM,PB*NP</b>
<b>NGC 7024</b>		<b>H57-8</b>	<b>Non-Existent</b>
			<b>CL,P,LC,ST10...</b>

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<b>NGC 7024</b>		<b>H57-8</b>	<b>Non-Existent</b>	<b>CL,P,LC,ST10...</b>
Jul 27 2009	16"	11mmT6	PF,PS,R=F, SMALL GROUP	
<b>NGC 7026</b>			<b>Planetary Neb 3a</b>	<b>PB,BIN,PLN</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>Planetary Neb 3a</b>	<b>PLN,STELLAR=8.5M</b>
Aug 24 2005	8"	7.5mmW	VB,VS,R,R=F	
<b>NGC 7031</b>		<b>H74-8</b>	<b>Open Cluster 11.3 III 2 m</b>	<b>CL OF TRIP ST,LC</b>
Jul 24 2006	8"	11mmT6	CF,CS,R=F	
<b>NGC 7039</b>			<b>Open Cluster 11.3 IV 2 m</b>	<b>CL,VL,PRI,E,ST,10...</b>
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 7044</b>		<b>H24-6</b>	<b>Open Cluster 15.0 I 1 r</b>	<b>CL,VF,PL,VRI,VC</b>
Jul 23 2006	8"	19mmW	B,S,R=F	
<b>NGC 7048</b>			<b>Planetary Neb 3b</b>	<b>PF,PL,DIF,IR,VLBM</b>
Aug 24 2005	8"	7.5mmW	VF,ML,PATCHY,AV,R=F	
<b>NGC 7062</b>		<b>H51-7</b>	<b>Open Cluster 10.1 II 2 m</b>	<b>CL,PS,PRI,PC,ST13...</b>
Jul 23 2006	8"	19mmW	PB,PS,R=F	
<b>NGC 7063</b>			<b>Open Cluster 8.9 III 1 p</b>	<b>CL,P,ST10...</b>
Oct 08 2006	1.9"	12x50	F,S,R=F	
Jul 24 2006	8"	11mmT6	CF,S,R=F	
<b>NGC 7067</b>		<b>H50-7</b>	<b>Open Cluster 11.2 II 1 p</b>	<b>CL,P,(NEB)</b>
Jul 24 2006	8"	11mmT6	CF,VS,R=F	
<b>NGC 7071</b>			<b>Non-Existent</b>	<b>CL,S,C,CE</b>
Aug 24 2005	8"	11mmT6	R=P, DISAPPOINTING	
<b>NGC 7082</b>		<b>H52-7</b>	<b>Open Cluster 9.9 IV 2 p</b>	<b>CL,L,CRI,LC,ST10..13</b>
Nov 13 2007	8"	11mmT6	PF,PS,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
<b>NGC 7086</b>		<b>H32-6</b>	<b>Open Cluster 10.2 II 2 m</b>	<b>CL,CL,VRI,PC,*11..16</b>
Jul 23 2006	8"	19mmW	PB,PS,R=F	
<b>NGC 7092</b>		<b>M39</b>	<b>Open Cluster 7.0 III 2 m</b>	<b>CL,VL,VP,VLC,*7...10</b>
Jul 19 2017	12"	17mmT4	LARGER THAN M29	
Jul 01 2016	12"	35mm A	B,S,R=G	
Aug 21 2015	12"	17mmT4		
Mar 16 2012	18"	17mmAT	2012 M.M.	

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<b>NGC 7092</b>	<b>M39</b>	<b>Open Cluster 7.0 III 2 m</b>	<b>CL,VL,VP,VLC,*7...10</b>
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	
Aug 16 2006 1.9"	12x50	B,S,R=F	
Mar 27 2006 8"	19mmW	S,LOOSE,R=F	
Jun 19 2004 8"	25mmPL	GOOD NIGHT - MEGASTAR	
<b>NGC 7116</b>		<b>Galaxy S?</b>	<b>VF,PL,ME</b>
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>NGC 7127</b>		<b>Open Cluster IV 1 p</b>	<b>CL,S,P,LC</b>
Jul 23 2007 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
<b>NGC 7128</b>	<b>H40-7</b>	<b>Open Cluster 11.5 I 3 m</b>	<b>CL,S,PRI,HASARUBY*9</b>
Jul 23 2006 8"	19mmW	PF,CS,R=F,SMUDGE, NO STARS	
<b>PGC 63211</b>		<b>Galaxy S</b>	
Aug 13 2010 31"	17mmT4	CF,VS,R,UB,NND,R=F	
<b>PGC 63311</b>		<b>Galaxy Sb</b>	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NNS,R=F,AV1	
<b>PGC 63440</b>		<b>Galaxy S0-:</b>	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV1	
<b>PGC 63529</b>		<b>Galaxy SAB(s)0-</b>	
Jul 21 2004 8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
<b>PGC 63552</b>		<b>Galaxy S?</b>	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P	
<b>PGC 63766</b>		<b>Galaxy SAB(s)bc</b>	
Jul 25 2011 12"	7mm TV	VF,CS,OVAL,NND,R=P	
<b>PGC 67049</b>		<b>Galaxy SAB0^</b>	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=F	
Jul 19 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P	
<b>PGC 67246</b>		<b>Galaxy SB?</b>	
Jul 25 2011 12"	7mm TV	VF,VS,OVAL,UB,NND,R=P,AV4	
<b>PK 64+5.1</b>		<b>Planetary Neb 4</b>	
Aug 24 2005 8"	7.5mmW	VF,VS,R,AV,R=F	