My Finest NGC Album

A detailed record of my journey through The Royal Astronomical Society of Canada's Finest NGC list

Name: _____ Centre or Home Location: _____

The New General Catalogue or NGC contains 7,840 entries and forms the core of most people's "life list" of observing targets. The NGC was originally published in 1888 by J.L.E. Dreyer and therefore predated photographic astronomy. The Finest NGC list, compiled by Alan Dyer complements the Messier List, as there is no overlap. The list features many fine deep-sky treasures as well as a few somewhat more challenging objects. Once you have observed all of the objects on this list, application forms can be found on the RASC website at **www.rasc.ca**. The FNGC certificate has been awarded since 1995.

Here is an overview of the Finest NGC Observing List

Finest NGC Objects	Number	Notes
Open Clusters	12	Including the famous Double Cluster in Perseus, NGC 7789 in Cassiopeia, and NGC 6633 in Ophiuchus.
Globular Clusters	2	NGC 5466 in Bootes and NGC 6712 in Scutum.
Diffuse Nebulae	14	Includes the great Veil Nebula as well as the North America and Rosette nebulae.
Planetary Nebulae	24	Includes many fine PN's like the Ghost of Jupiter, the Cat's Eye, the Blinking Planetary, the Helix, the Blue Snowball, and the Clown Face nebulae.
Galaxies	58	Includes the amazing NGC 4565 in Coma Berenices, NGC 253 in Sculptor, and NGC 5907 in Draco.
Total	110	The Finest NGC list can be started during any season.

Why Record Your Observations?

Recording observations is important for two reasons. It gives you a permanent record of all the great times you had while observing, and recording scientific details of an observation can help researchers.

Recording Observations Overview

Very few, if any, astronomers remember everything that they have observed through the years, and for that reason alone it is wise to keep a record of your observations. Many experienced astronomers have commented on how much they enjoy looking through their logbooks and recalling the many precious memories that are contained there. It is truly worth the effort to write down your observations.

How to Record Observations

One of the most practical ways of recording observations is to have a template form completed ahead of time that contains all of the known data, like the object's name, number, location, size, magnitude, and so on. You then simply write down your description of the object in the space provided, and then use the time saved to explore other treasures in the night sky. The template can also include an area to make a drawing. The Finest NGC Album has all of those features

Drawing at the Eyepiece

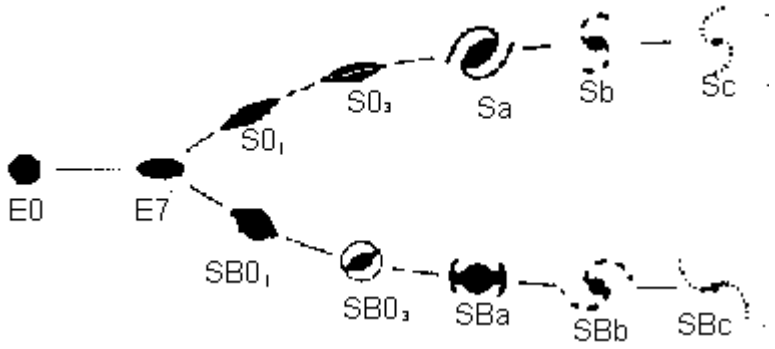
Drawing at the eyepiece can be a very rewarding experience for all the same reasons as making notes. The added bonus of a drawing is that it will clearly show what you saw to other people who may visualize a text description differently than you. Drawing is also the best way to learn how to see the fine detail in the astronomical objects you observe.

How to qualify for the Certificate

All of the objects in the Finest NGC list have to be found by the certificate applicant without assistance from other observers. Many new telescopes are being sold with built-in "Go To" systems and while they are very useful for people who are trying to see many objects in a short time, the "Go To" approach does not allow for the full development of observing skills and abilities. By their very nature they eliminate the challenge that the certificate recognizes and that is the ability to seek out and find astronomical objects using

only your eyes, finder scope, and star charts (all directed by an inquisitive mind). As a result, observations made with "Go To" telescopes, while fine for learning about the night sky, are not eligible for RASC Observing Certificates. The only exception may be to turn off the "Go To" system while doing your certificate list.

Description of fields on the log forms

FIELD	DESCRIPTION
NGC Number:	This is the New General Catalogue designation that consists of a 1-4 digit number.
IC Number:	This is the Index Catalogue designation that is a supplement to the New General Catalogue.
Constellation:	These are the official three letter designations for the 88 recognized constellations.
Type:	PN = Planetary Nebula. OC = Open Cluster. GC = Globular Cluster. SNR = Supernova Remnant. EN= Emission Nebula. RN = Reflection Nebula. E/RN = Emission and Reflection Nebula. G = Galaxies as per diagram below: 

Description of fields on the log forms (continued)

FIELD	DESCRIPTION
Visual Magnitude:	Apparent visual magnitude is a measurement of the objects brightness as seen using average human eyesight.
Size:	Dimensions of an object using degrees, minutes of arc (1/60 degree) and seconds of arc (1/60 minute.)
Distance:	Distance of object measured in light years. Note that these are estimates and sources of this data can vary.
RA (Epoch 2000.0):	Coordinates in Right Ascension, divided into 24-hourly sections as they rise in the east.
Dec (Epoch 2000.0):	Coordinates in Declination as measured +90 degrees north and -90 degrees south of the celestial equator.
UM I:	Map number where you can find the object in the first edition of Uranometria 2000.
UM II:	Map number where you can find the object in the second edition of Uranometria 2000.
Sky Atlas 2000:	Map number where you can find the object in Sky Atlas 2000.
Season:	Season of the year when the object is best seen after dusk.
Remarks:	Brief description of the object and some key observing tips.
Date:	Field for recording the date of an observation.
Time:	Field for recording the time of an observation. Please specify Time Zone or Universal Time.
Seeing:	Place a circle around or an X on top of one number that best describes the stability of the atmosphere. **1** = Best **2** = Above Average **3** = Average **4** = Below Average **5** = Poor **Note:** A somewhat hazy sky may provide good seeing; therefore use this for measuring stability only.
Transparency:	Place a circle around or an X on top of one number that best describes how clear the sky is. **1** = Best **2** = Above Average **3** = Average **4** = Below Average **5** = Poor **Note:** A crystal clear sky may provide less than perfect seeing; therefore use this for measuring clarity only.
Telescope:	Field for recording the aperture and type of telescope used. **Example:** 25-cm reflector.
Eyepiece:	Field for recording the focal length and type of eyepiece used. **Example:** 17-mm Plossel.
Magnification:	Field for recording the magnification of the telescope/eyepiece combination used. Magnification equals the focal length of the telescope as measured in millimetres divided by the focal length of the eyepiece in millimetres. To calculate the focal length of your telescope in millimetres, use this formula: (Aperture in inches multiplied by the focal ratio) then multiply by 25.4. For example an 8 inch aperture scope with a focal ratio of F6 would have a focal length of (8 x 6 = 48 inches) Conversion: 48 inches x 25.4 = 1219.2 mm.
Observing Location:	Field for recording the location of the observing site.

Credits for the development of these forms

This project began when Stan Runge of the Winnipeg Centre approached the Observing Committee in regard to creating some detailed observing forms that would be specific to the RASC Messier and Finest NGC lists. He then presented prototypes that were made in conjunction with members of the Saskatoon Centre. The committee was impressed and we very much liked the idea that was presented. Soon after that work started on the project and during the time frame from autumn 2002 to spring 2004, as time allowed, we proceeded to further develop the forms and to provide enhanced content.

Dan Williams of the London Centre and Christopher Fleming, Chair of the Committee, worked together on many cloudy evenings to perfect the design as much as possible and to do the tedious work of entering the data for each object. Dan is a computer professional and he managed the various database, graphics, and word processing software programs that were used to bring the whole project together. Christopher acted as the astronomical content advisor and source of the data for the objects as well as the reference material. We hope you enjoy the results of our efforts.

Clear Skies,

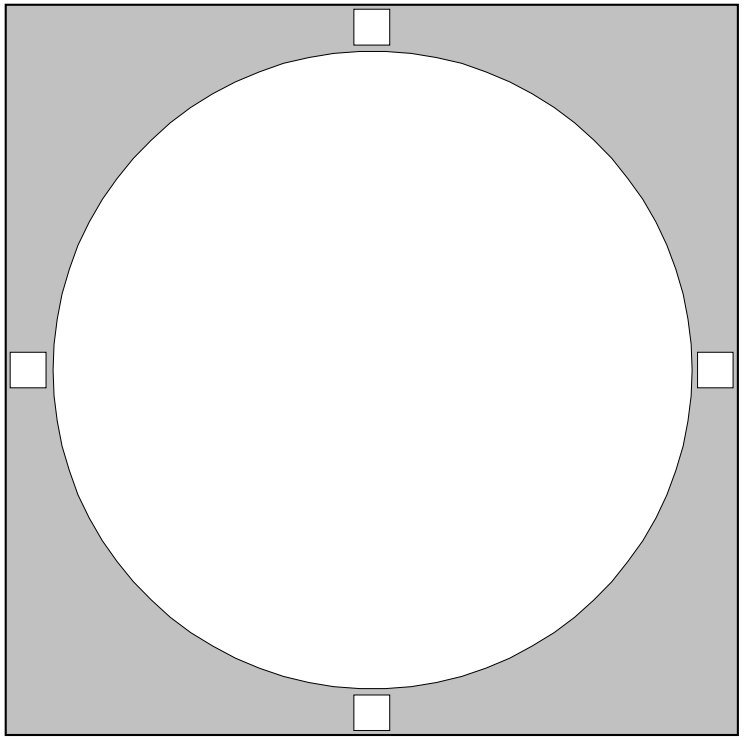
RASC Observing Committee,

Summer 2004

RASC Finest NGC - 1

Saturn Nebula

NGC Number		**7009**	
Constellation		**Aquarius**	
Type		**PN**	
Visual Magnitude**		**8.3p**	
Size	Distance	**>25"**	**2,900 ly**
RA (Epoch 2000.0)		**21:04.2**	
Dec (Epoch 2000.0)		**-11:22**	
UM I	UM II	**299, 300**	**123**
Sky Atlas 2000		**16, 17**	
Season		**Autumn**	
Remarks***		**!! Saturn Nebula; small bright oval**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



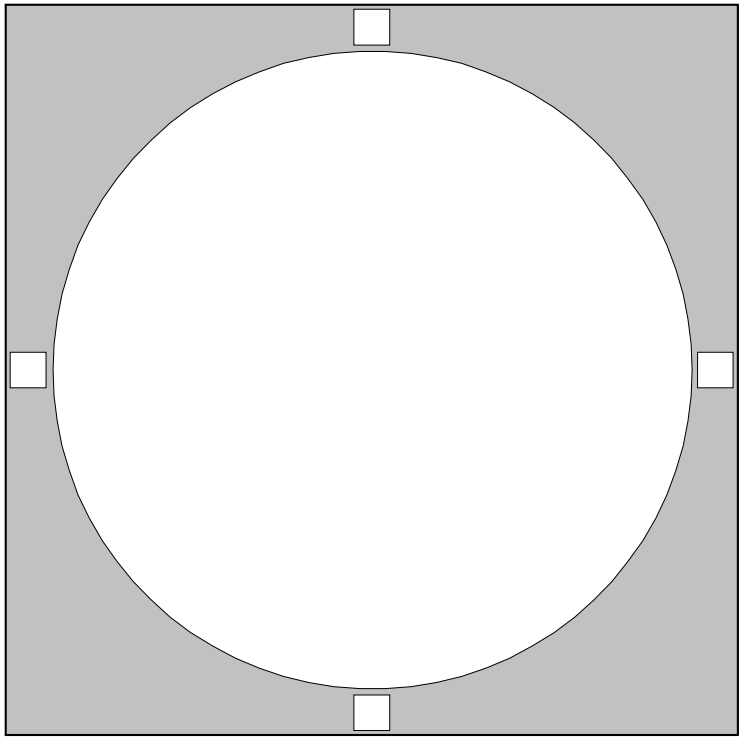
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 2

Helix Nebula

NGC Number		**7293**	
Constellation		**Aquarius**	
Type		**PN**	
Visual Magnitude**		**7.3**	
Size	Distance	**>12.0' 49"**	**425 ly**
RA (Epoch 2000.0)		**22:29.6**	
Dec (Epoch 2000.0)		**-20:48**	
UM I	UM II	**347**	**142**
Sky Atlas 2000		**23**	
Season		**Autumn**	
Remarks***		**!! Helix Nebula; large, diffuse; use filter**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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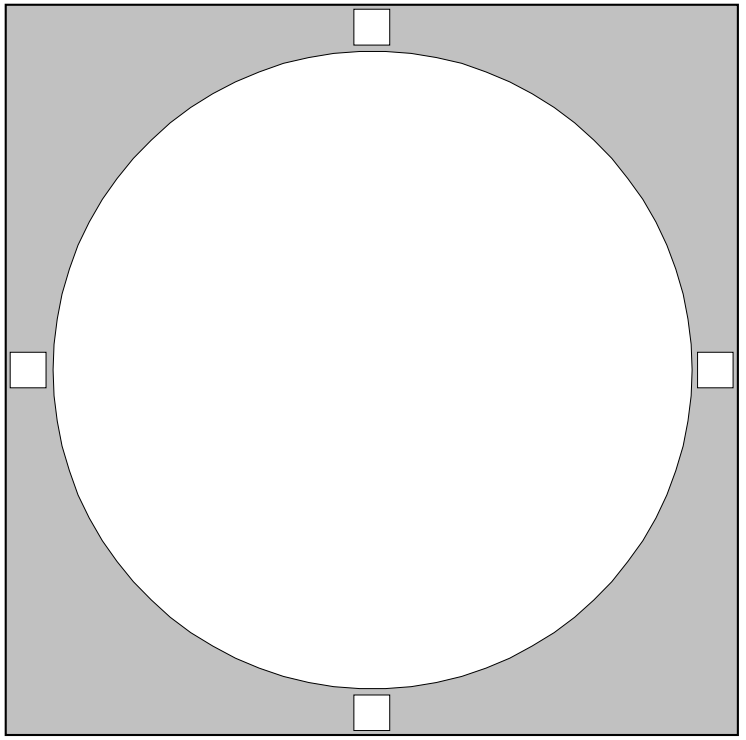
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 3

Caldwell 30

NGC Number		**7331**	
Constellation		**Pegasus**	
Type		**G-SAb**	
Visual Magnitude**		**9.5**	
Size	Distance	**10.0' x 4.0'**	**48 million ly**
RA (Epoch 2000.0)		**22:37.1**	
Dec (Epoch 2000.0)		**+34:25**	
UM I	UM II	**123**	**46**
Sky Atlas 2000		**9**	
Season		**Autumn**	
Remarks***		**!! large, bright spiral galaxy**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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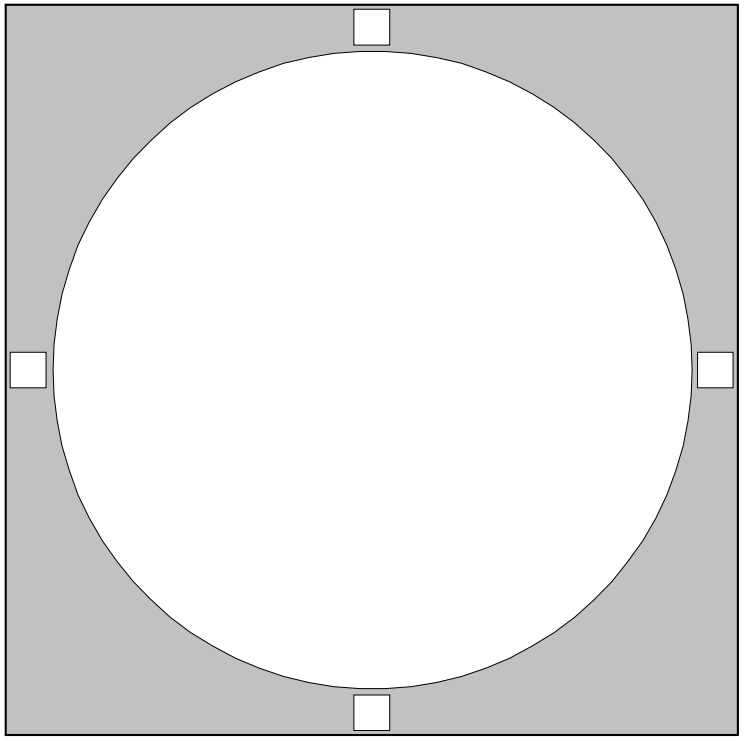
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 4

Bubble Nebula

NGC Number		**7635**	
Constellation		**Cassiopeia**	
Type		**EN**	
Visual Magnitude**		**~11**	
Size	Distance	**15.0' x 8.0'**	**n/a**
RA (Epoch 2000.0)		**23:20.7**	
Dec (Epoch 2000.0)		**+61:12**	
UM I	UM II	**15, 34, 58**	**18**
Sky Atlas 2000		**3**	
Season		**Autumn**	
Remarks***		**Bubble Neb.; very faint; 1/2 deg SW of M52**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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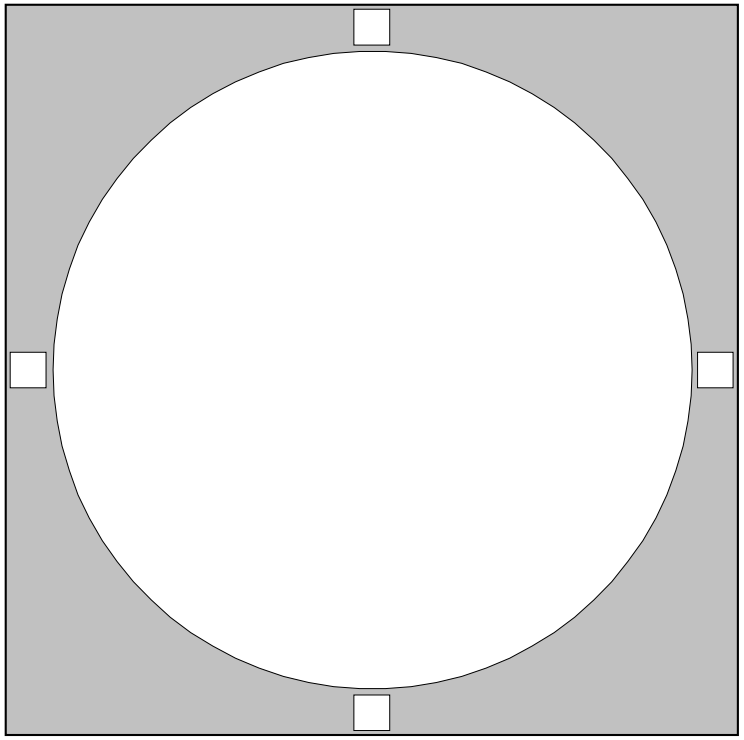
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**7789**	
Constellation		**Cassiopeia**	
Type		**OC**	
Visual Magnitude**		**6.7**	
Size	Distance	**15.0'**	**6,200 ly**
RA (Epoch 2000.0)		**23:57.0**	
Dec (Epoch 2000.0)		**+56:44**	
UM I	UM II	**35**	**18**
Sky Atlas 2000		**1, 3**	
Season		**Autumn**	
Remarks***		**!! 300*; faint but very rich cluster**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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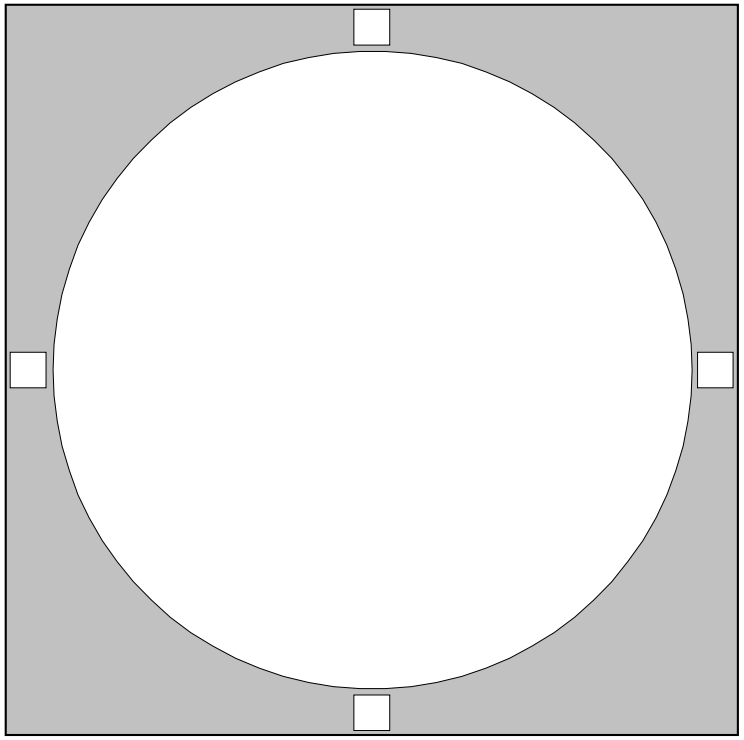
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**185**	
Constellation		**Cassiopeia**	
Type		**G-E3**	
Visual Magnitude**		**9.2**	
Size	Distance	**14.0' x 12.0'**	**2.2 million ly**
RA (Epoch 2000.0)		**00:39.0**	
Dec (Epoch 2000.0)		**+48:20**	
UM I	UM II	**60**	**30**
Sky Atlas 2000		**4, 9**	
Season		**Autumn**	
Remarks***		**companion to M31; small and faint**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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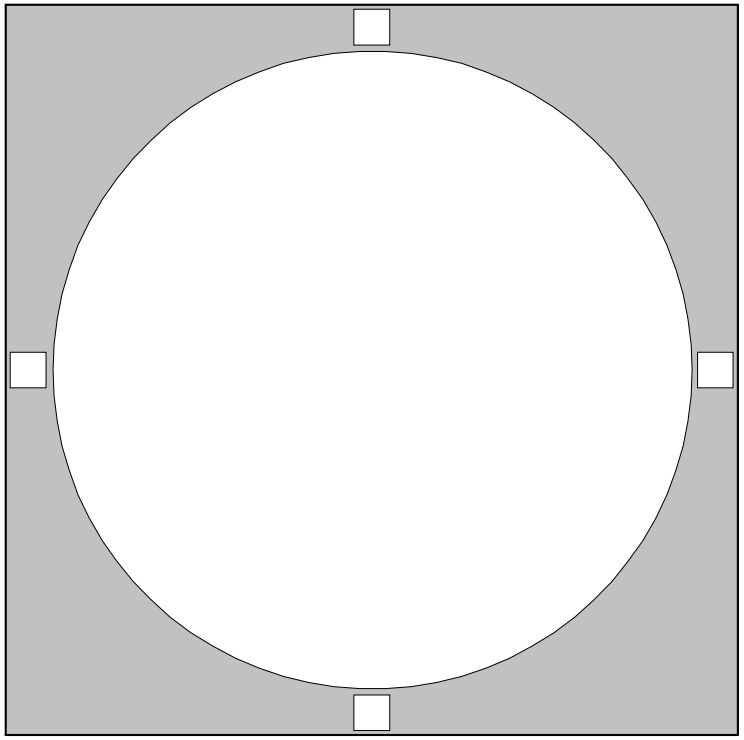
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**281**	
Constellation		**Cassiopeia**	
Type		**EN**	
Visual Magnitude**		**7.4p**	
Size	Distance	**35.0' x 30.0'**	**n/a**
RA (Epoch 2000.0)		**00:52.8**	
Dec (Epoch 2000.0)		**+56:37**	
UM I	UM II	**36**	**18**
Sky Atlas 2000		**1**	
Season		**Autumn**	
Remarks***		**!! large faint nebulosity near eta Cas**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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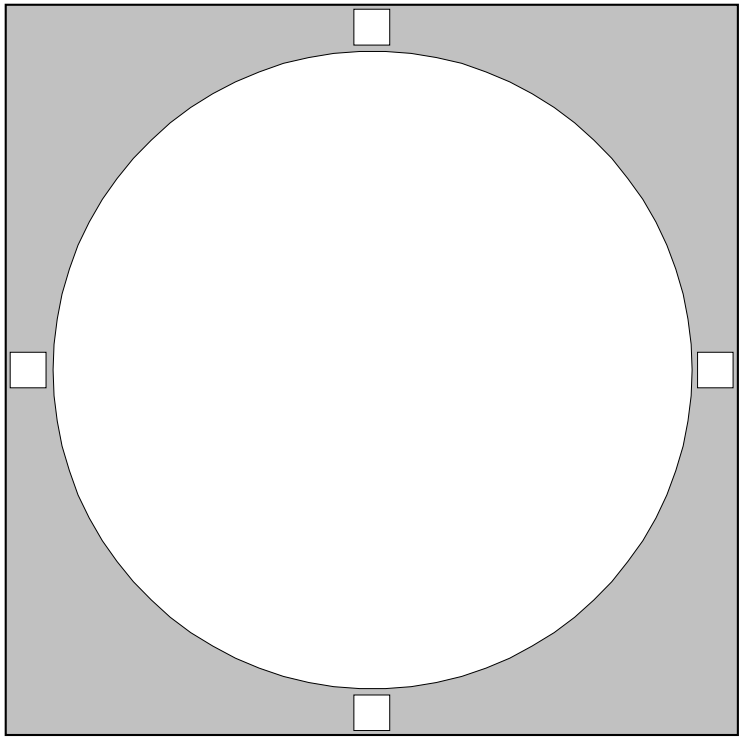
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**457**	
Constellation		**Cassiopeia**	
Type		**OC**	
Visual Magnitude**		**6.4**	
Size	Distance	**13.0'**	**9,000 ly**
RA (Epoch 2000.0)		**01:19.1**	
Dec (Epoch 2000.0)		**+58:20**	
UM I	UM II	**36**	**29**
Sky Atlas 2000		**1**	
Season		**Autumn**	
Remarks***		**80*; rich; one of the best Cas clusters**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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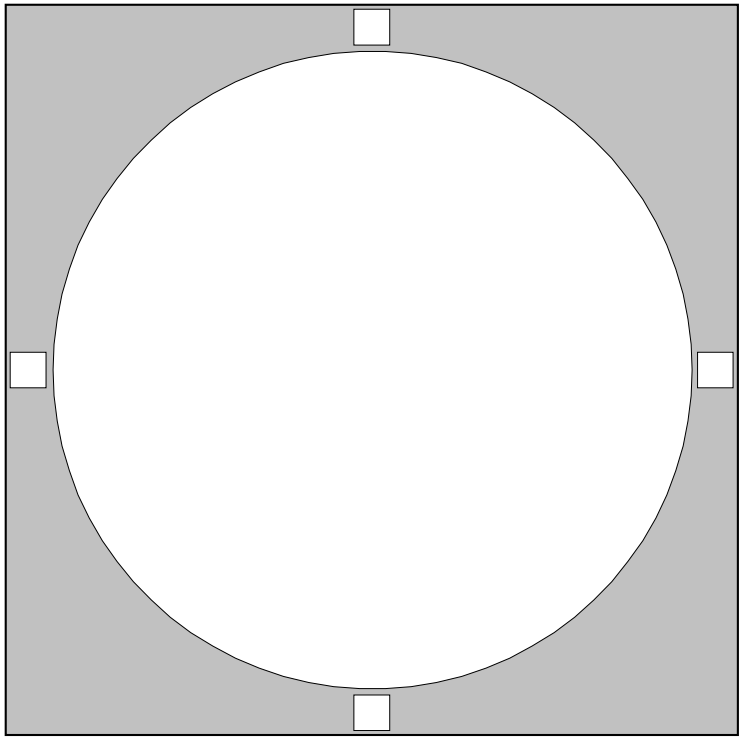
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**663**	
Constellation		**Cassiopeia**	
Type		**OC**	
Visual Magnitude**		**7.1**	
Size	Distance	**16.0'**	**7,200 ly**
RA (Epoch 2000.0)		**01:46.0**	
Dec (Epoch 2000.0)		**+61:15**	
UM I	UM II	**16, 17, 37**	**29**
Sky Atlas 2000		**1**	
Season		**Autumn**	
Remarks***		**80*; look for NGC's 654 and 659 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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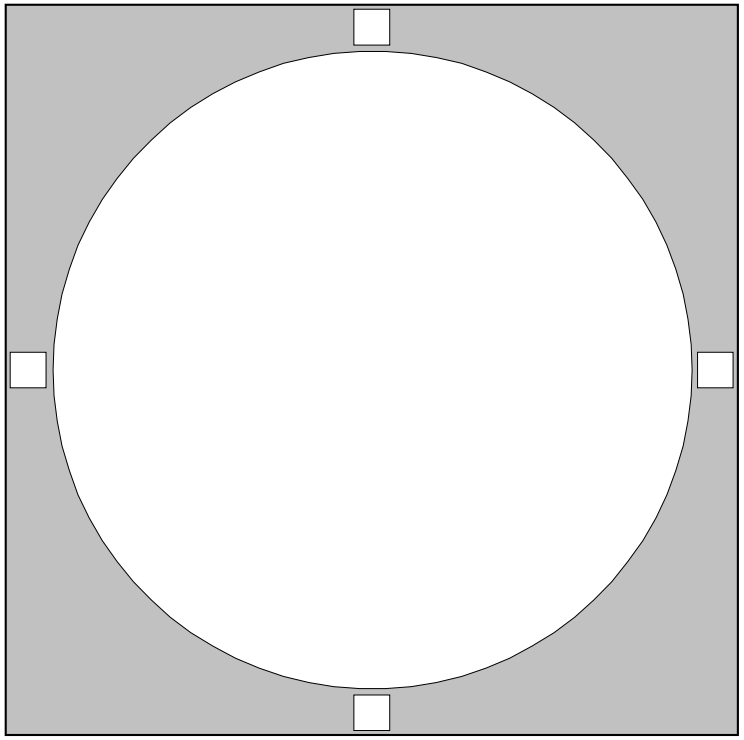
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**IC 289**	
Constellation		**Cassiopeia**	
Type		**PN**	
Visual Magnitude**		**13.3**	
Size	Distance	**>34"**	**3,900 ly**
RA (Epoch 2000.0)		**03:10.3**	
Dec (Epoch 2000.0)		**+61:19**	
UM I	UM II	**18, 38**	**28**
Sky Atlas 2000		**1**	
Season		**Autumn**	
Remarks***		**dim oval smudge; use nebula filter!**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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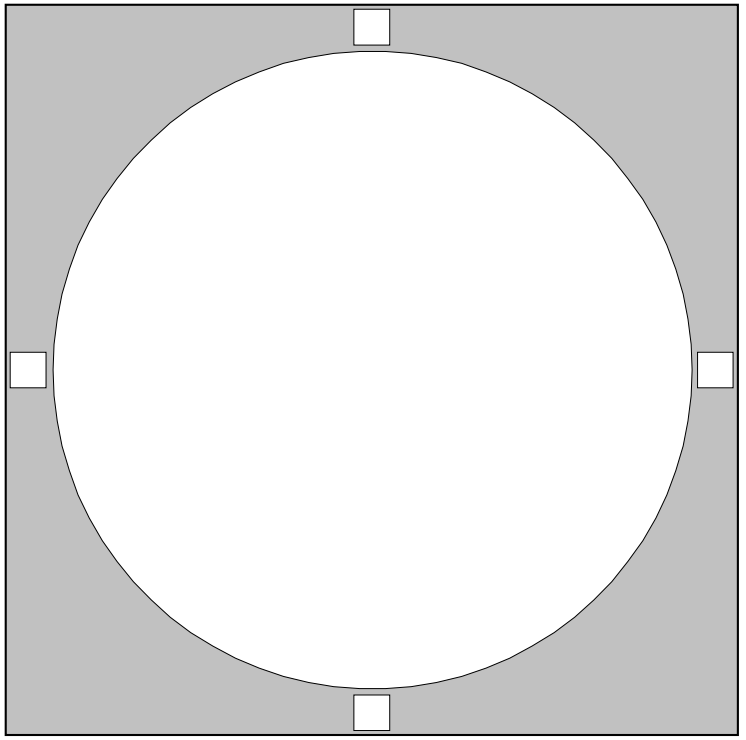
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 11

Blue Snowball

NGC Number		**7662**	
Constellation		**Andromeda**	
Type		**PN**	
Visual Magnitude**		**8.3**	
Size	Distance	**>12"**	**3,900 ly**
RA (Epoch 2000.0)		**23:25.9**	
Dec (Epoch 2000.0)		**+42:33**	
UM I	UM II	**88**	**30**
Sky Atlas 2000		**4, 9**	
Season		**Autumn**	
Remarks***		**!! Blue Snowball; annular at high power**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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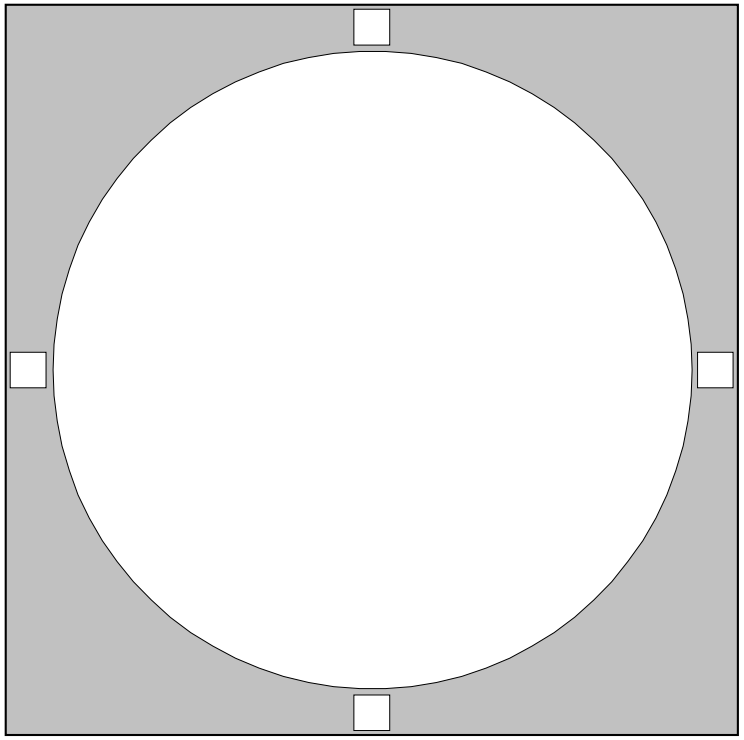
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**891**	
Constellation		**Andromeda**	
Type		**G-SAb**	
Visual Magnitude**		**9.9**	
Size	Distance	**13.0' x 3.0'**	**30 million ly**
RA (Epoch 2000.0)		**02:22.6**	
Dec (Epoch 2000.0)		**+42:21**	
UM I	UM II	**62**	**43, 44**
Sky Atlas 2000		**1, 4**	
Season		**Autumn**	
Remarks***		**!! faint, classic edge-on with dust lane**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



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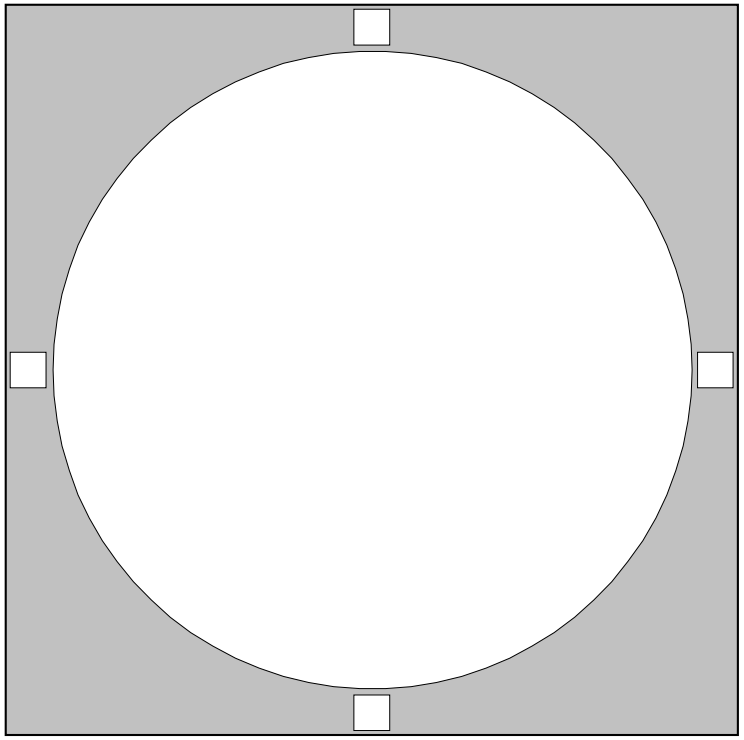
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

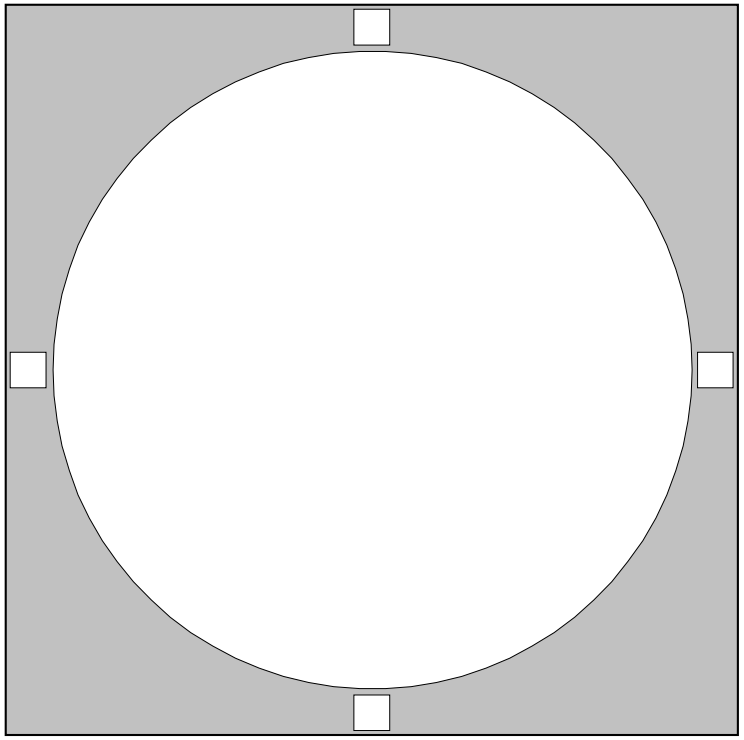
NGC Number		**253**	
Constellation		**Sculptor**	
Type		**G-SABc**	
Visual Magnitude**		**7.6**	
Size	Distance	**30.0' x 7.0'**	**11 million ly**
RA (Epoch 2000.0)		**00:47.6**	
Dec (Epoch 2000.0)		**-25:17**	
UM I	UM II	**306, 307**	**158**
Sky Atlas 2000		**18**	
Season		**Autumn**	
Remarks***		**!! very large and bright but at low altitude**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

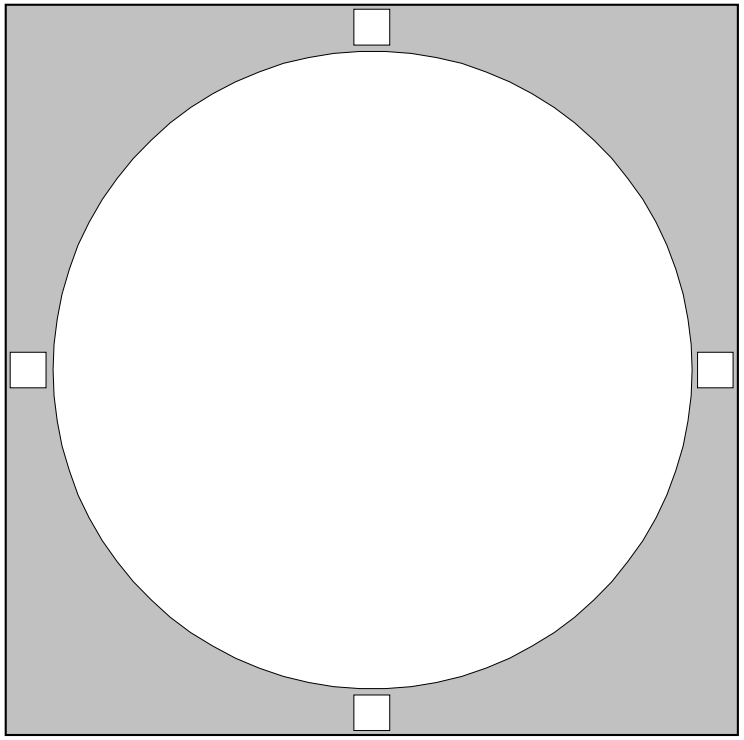
NGC Number		**772**	
Constellation		**Aries**	
Type		**G-SAb**	
Visual Magnitude**		**10.3**	
Size	Distance	**7.3' x 4.6'**	**111 million ly**
RA (Epoch 2000.0)		**01:59.3**	
Dec (Epoch 2000.0)		**+19:01**	
UM I	UM II	**129**	**79, 80**
Sky Atlas 2000		**4, 10**	
Season		**Autumn**	
Remarks***		**diffuse spiral galaxy**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

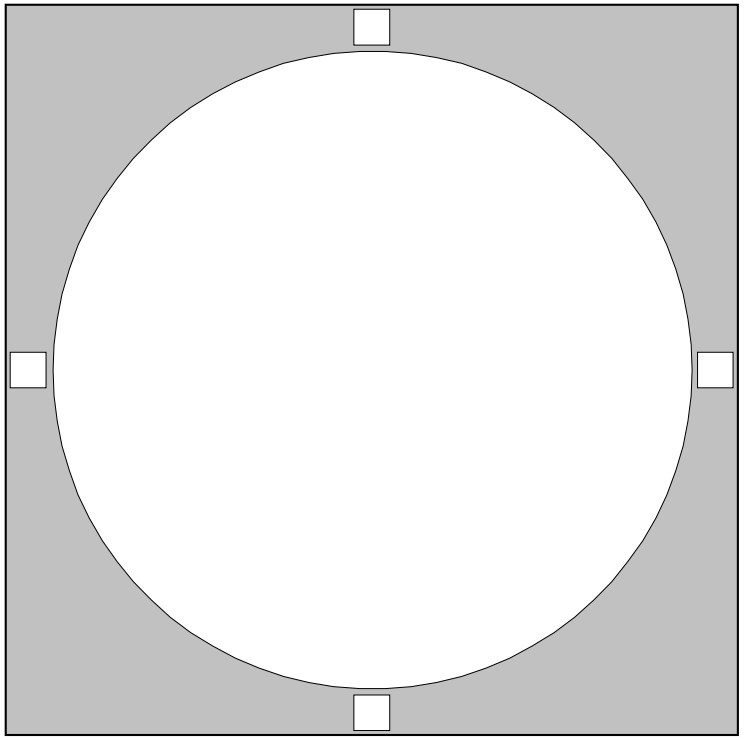
NGC Number		**246**	
Constellation		**Cetus**	
Type		**PN**	
Visual Magnitude**		**10.9**	
Size	Distance	**3.0' 45"**	**1,300 ly**
RA (Epoch 2000.0)		**00:47.0**	
Dec (Epoch 2000.0)		**-11:53**	
UM I	UM II	**261, 262**	**140**
Sky Atlas 2000		**10, 17**	
Season		**Autumn**	
Remarks***		**large and faint with mottled structure**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**936**	
Constellation		**Cetus**	
Type		**G-SB**	
Visual Magnitude**		**10.2**	
Size	Distance	**5.7' x 4.6'**	**59 million ly**
RA (Epoch 2000.0)		**02:27.6**	
Dec (Epoch 2000.0)		**-01:09**	
UM I	UM II	**219, 220**	**119**
Sky Atlas 2000		**10**	
Season		**Autumn**	
Remarks***		**near M77; NGC 941 in the same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



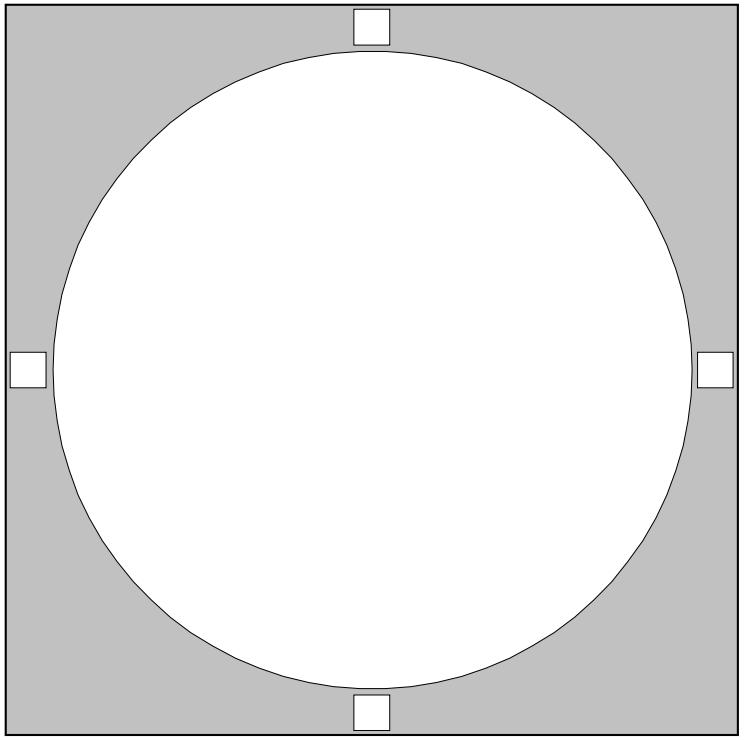
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 17

Double Cluster

NGC Number		**869/884**	
Constellation		**Perseus**	
Type		**OC**	
Visual Magnitude**		**5.3/6.1**	
Size	Distance	**30.0' / 30.0'**	**7,200/7500 ly**
RA (Epoch 2000.0)		**02:21.0**	
Dec (Epoch 2000.0)		**+57:08**	
UM I	UM II	**37**	**29**
Sky Atlas 2000		**1**	
Season		**Autumn**	
Remarks***		**!! Double Cluster; 315*; use low power.**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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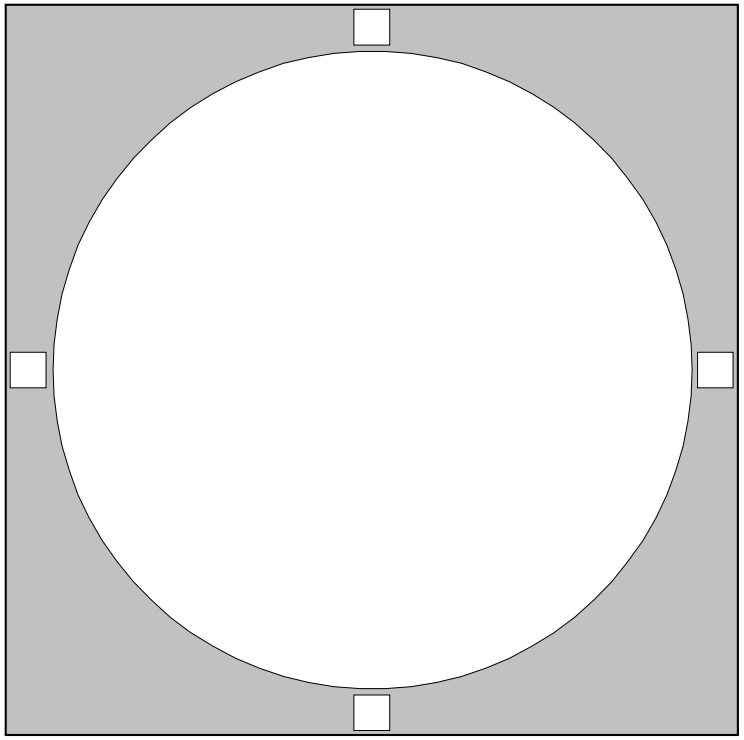
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

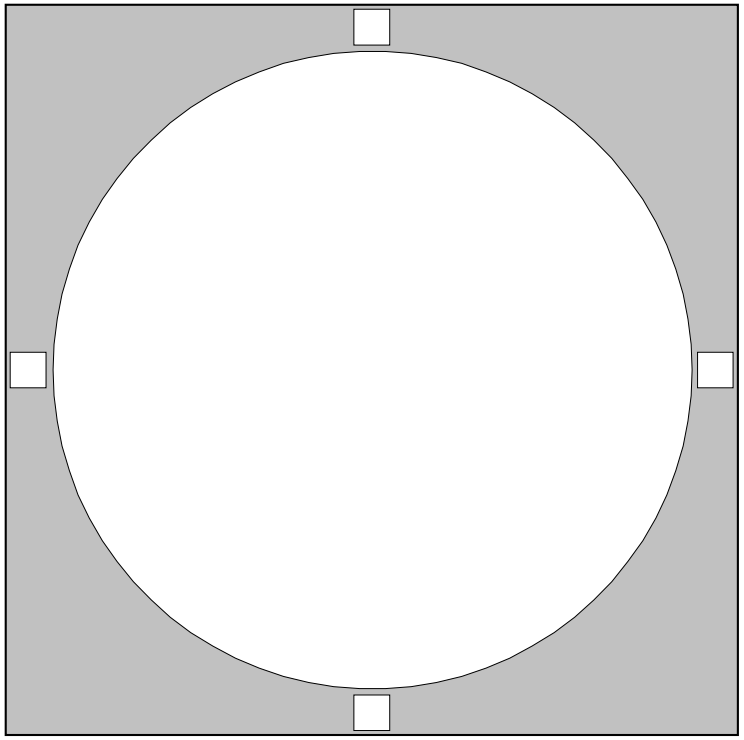
NGC Number		**1023**	
Constellation		**Perseus**	
Type		**G-SB(rs)0-**	
Visual Magnitude**		**9.3**	
Size	Distance	**8.6' x 4.2'**	**34 million ly**
RA (Epoch 2000.0)		**02:40.4**	
Dec (Epoch 2000.0)		**+39:04**	
UM I	UM II	**62, 93**	**61**
Sky Atlas 2000		**1, 4**	
Season		**Autumn**	
Remarks***		**bright lens-shaped galaxy near M34**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

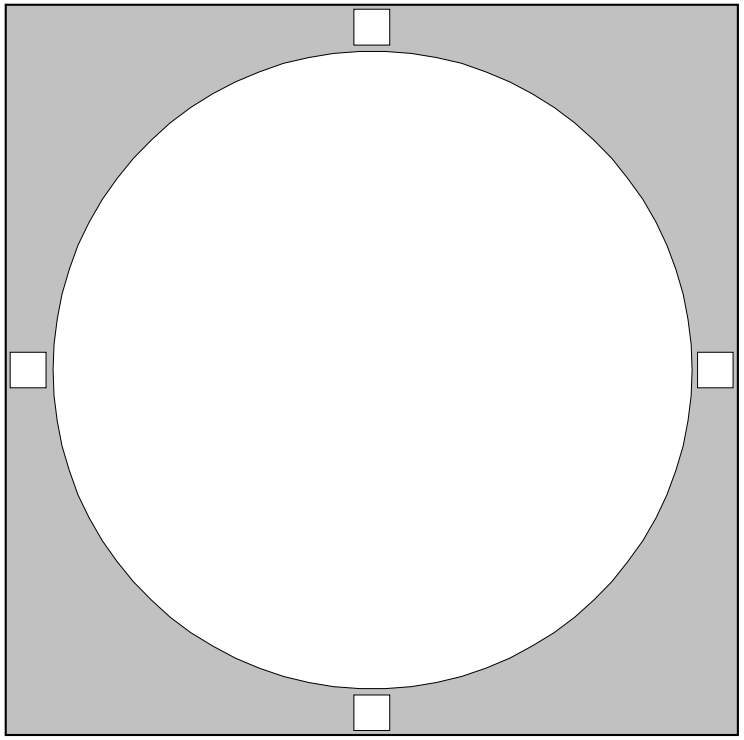
NGC Number		**1491**	
Constellation		**Perseus**	
Type		**EN**	
Visual Magnitude**		**na**	
Size	Distance	**25.0' x 25.0'**	**2,500 ly**
RA (Epoch 2000.0)		**04:03.4**	
Dec (Epoch 2000.0)		**+51:19**	
UM I	UM II	**39**	**28, 42, 43**
Sky Atlas 2000		**1, 4, 5**	
Season		**Autumn**	
Remarks***		**visually small and faint emission nebula**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

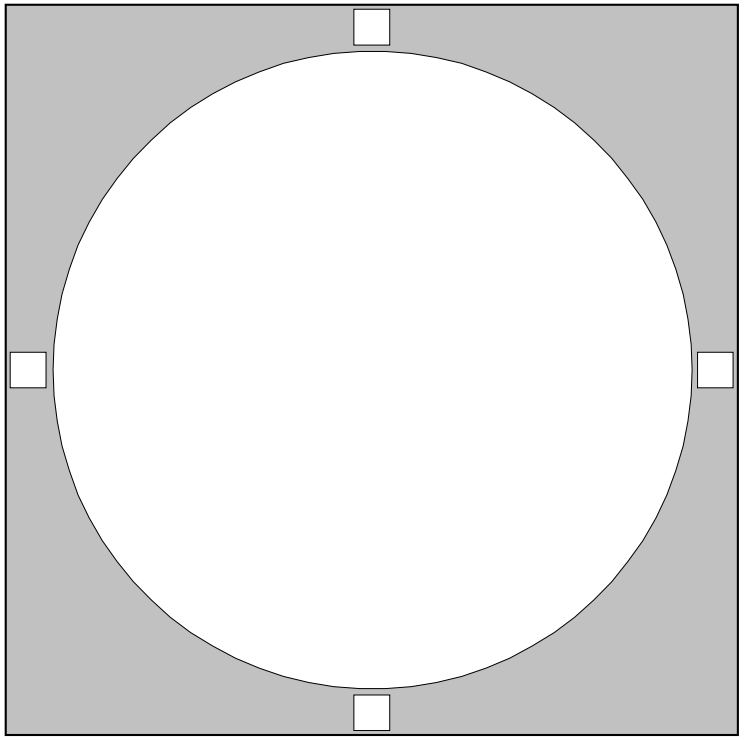
NGC Number		**1501**	
Constellation		**Camelopardalis**	
Type		**PN**	
Visual Magnitude**		**11.5**	
Size	Distance	**52"**	**3,900 ly**
RA (Epoch 2000.0)		**04:07.0**	
Dec (Epoch 2000.0)		**+60:55**	
UM I	UM II	**18, 39**	**28**
Sky Atlas 2000		**1**	
Season		**Autumn**	
Remarks***		**faint; dark center; look for NGC 1502**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

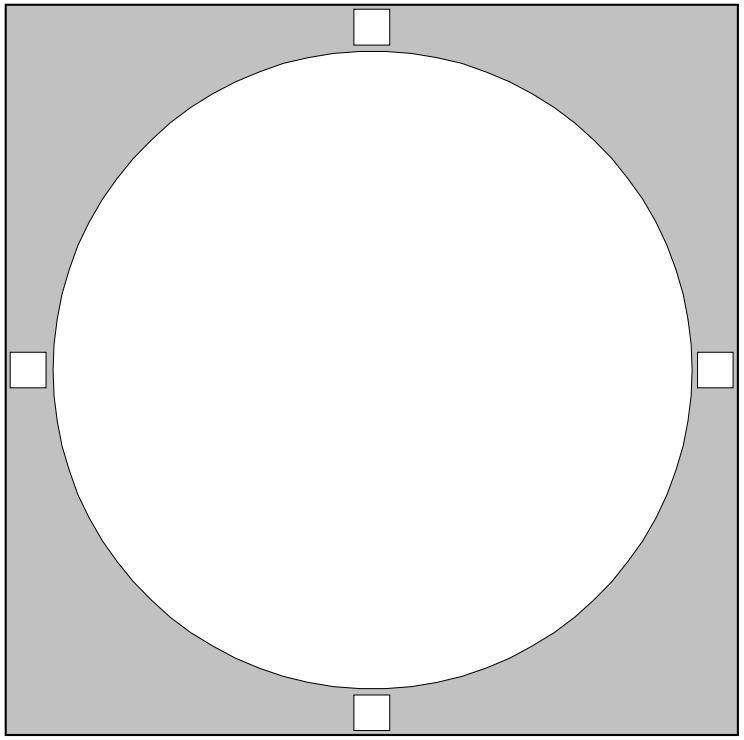
NGC Number		**1232**	
Constellation		**Eridanus**	
Type		**G-SABc**	
Visual Magnitude**		**10.0**	
Size	Distance	**6.8'x5.6'**	**72 million ly**
RA (Epoch 2000.0)		**03:09.8**	
Dec (Epoch 2000.0)		**-20:35**	
UM I	UM II	**311**	**157**
Sky Atlas 2000		**18**	
Season		**Autumn**	
Remarks***		**face-on spiral; look for NGC 1300 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

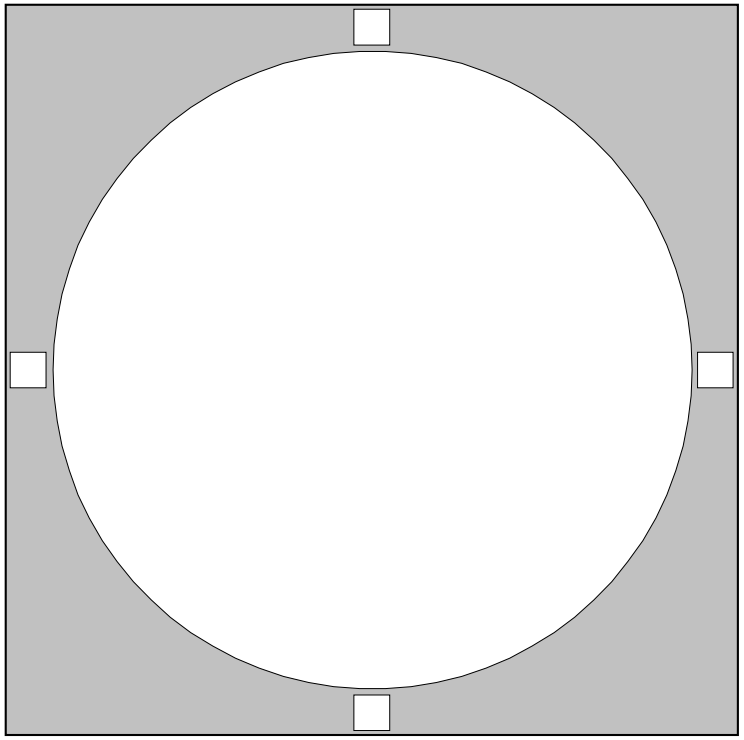
NGC Number		**1535**	
Constellation		**Eridanus**	
Type		**PN**	
Visual Magnitude**		**9.6p**	
Size	Distance	**>18"**	**5,000 ly**
RA (Epoch 2000.0)		**04:14.2**	
Dec (Epoch 2000.0)		**-12:44**	
UM I	UM II	**268**	**137, 138**
Sky Atlas 2000		**11**	
Season		**Autumn**	
Remarks***		**bright planetary with blue-grey disk**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**1514**	
Constellation		**Taurus**	
Type		**PN**	
Visual Magnitude**		**10.9**	
Size	Distance	**>1' 54"**	**2,000 ly**
RA (Epoch 2000.0)		**04:09.2**	
Dec (Epoch 2000.0)		**+30:47**	
UM I	UM II	**95**	**60**
Sky Atlas 2000		**4, 5**	
Season		**Winter**	
Remarks***		**faint glow around 9.4 mag central star**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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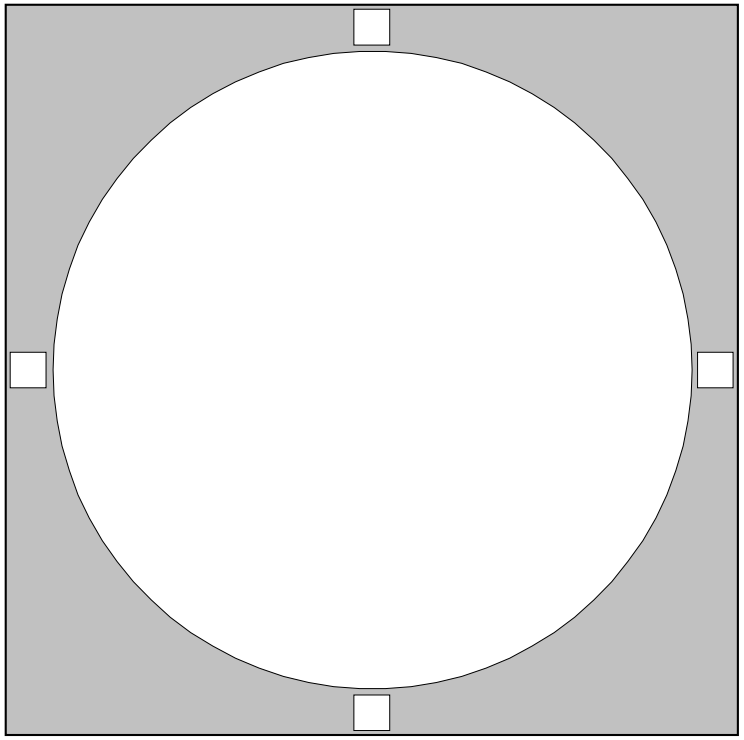
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**1931**	
Constellation		**Auriga**	
Type		**E/RN**	
Visual Magnitude**		**11.3**	
Size	Distance	**4.0'x4.0'**	**4,000 ly**
RA (Epoch 2000.0)		**05:31.4**	
Dec (Epoch 2000.0)		**+34:15**	
UM I	UM II	**97**	**59**
Sky Atlas 2000		**5**	
Season		**Winter**	
Remarks***		**haze surrounding 4 close stars**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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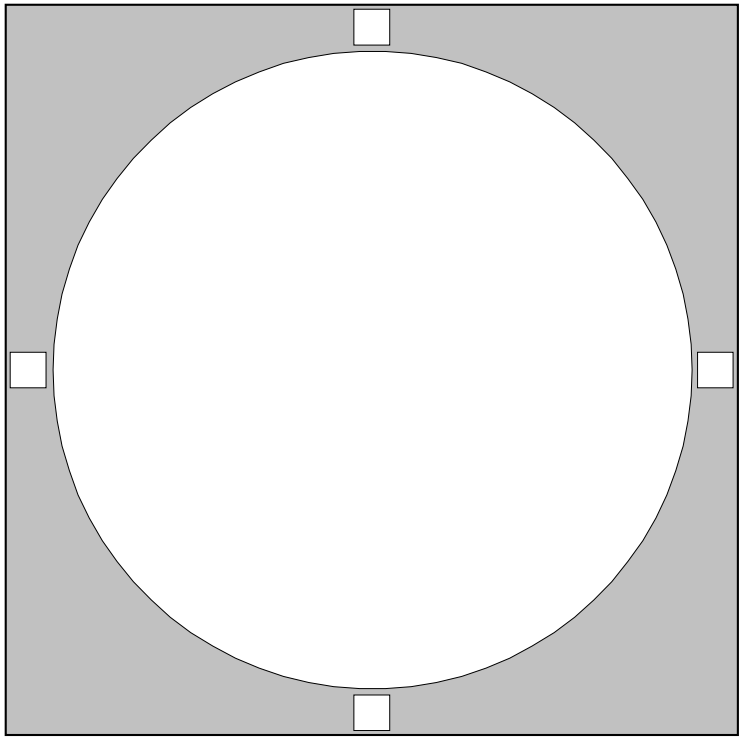
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

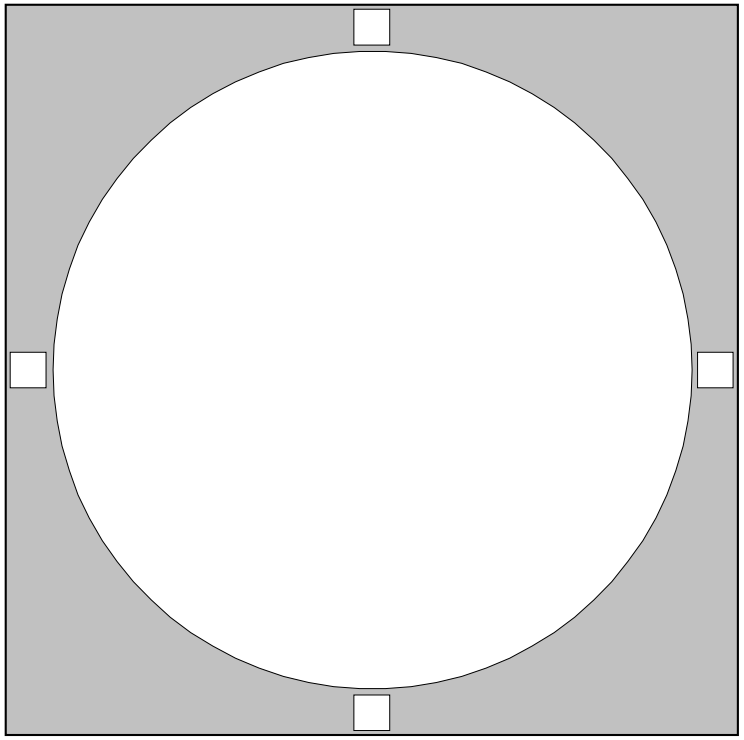
NGC Number		**1788**	
Constellation		**Orion**	
Type		**RN**	
Visual Magnitude**		**~9.0**	
Size	Distance	**5.0' x 3.0'**	**n/a**
RA (Epoch 2000.0)		**05:06.9**	
Dec (Epoch 2000.0)		**-03:21**	
UM I	UM II	**224, 225**	**117**
Sky Atlas 2000		**11**	
Season		**Winter**	
Remarks***		**fairly bright but diffuse reflection nebula**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

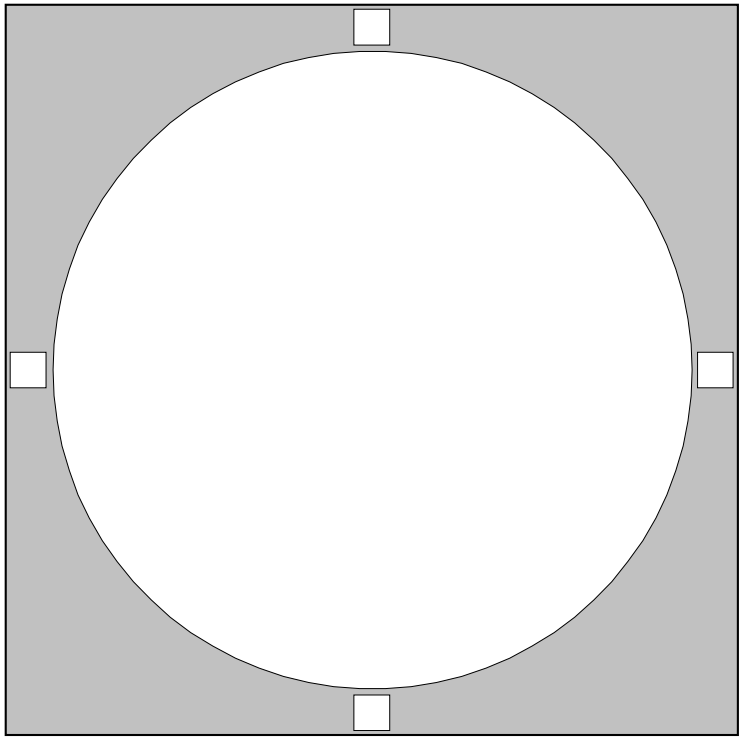
NGC Number		**1973+**	
Constellation		**Orion**	
Type		**E/RN**	
Visual Magnitude**		**na**	
Size	Distance	**~20.0' x ~10.0'**	**1,500 ly**
RA (Epoch 2000.0)		**05:35.1**	
Dec (Epoch 2000.0)		**-04:44**	
UM I	UM II	**225, 226**	**116**
Sky Atlas 2000		**11**	
Season		**Winter**	
Remarks***		**NGC1973-5-7 Just north of M42 and M43**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

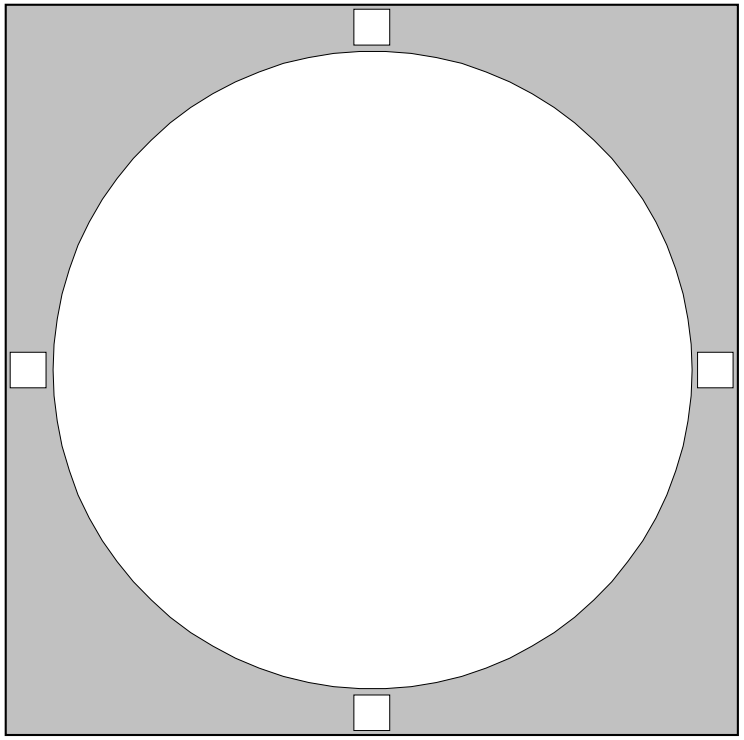
NGC Number		**2022**	
Constellation		**Orion**	
Type		**PN**	
Visual Magnitude**		**11.9**	
Size	Distance	**>18"**	**6,900 ly**
RA (Epoch 2000.0)		**05:42.1**	
Dec (Epoch 2000.0)		**+09:05**	
UM I	UM II	**181**	**96**
Sky Atlas 2000		**11**	
Season		**Winter**	
Remarks***		**small, faint & distinct with annular form**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

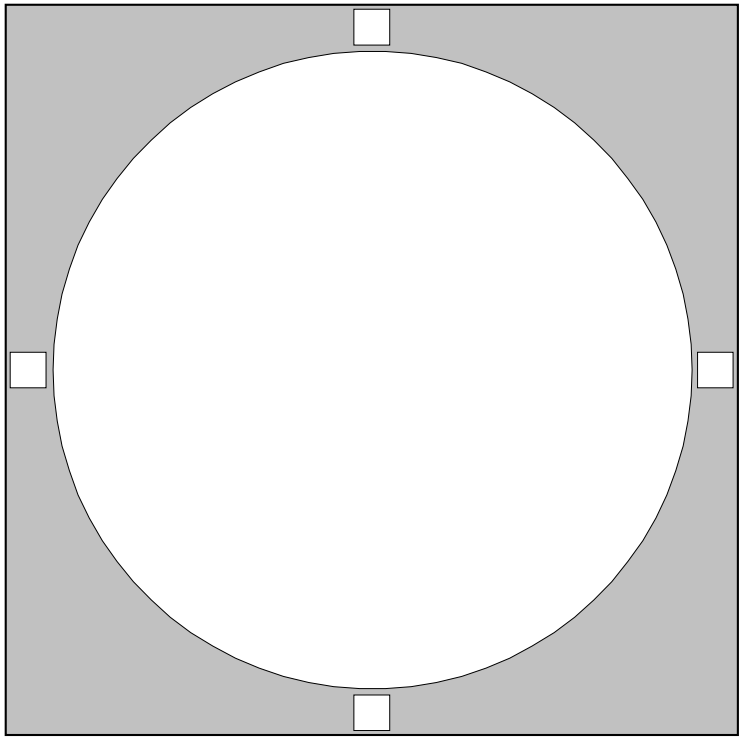
NGC Number		**2024**	
Constellation		**Orion**	
Type		**EN**	
Visual Magnitude**		**na**	
Size	Distance	**30.0' x 30.0'**	**1,500 ly**
RA (Epoch 2000.0)		**05:41.9**	
Dec (Epoch 2000.0)		**-01:51**	
UM I	UM II	**225, 226**	**116**
Sky Atlas 2000		**11**	
Season		**Winter**	
Remarks***		**bright but masked by glow from Zeta Orion**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

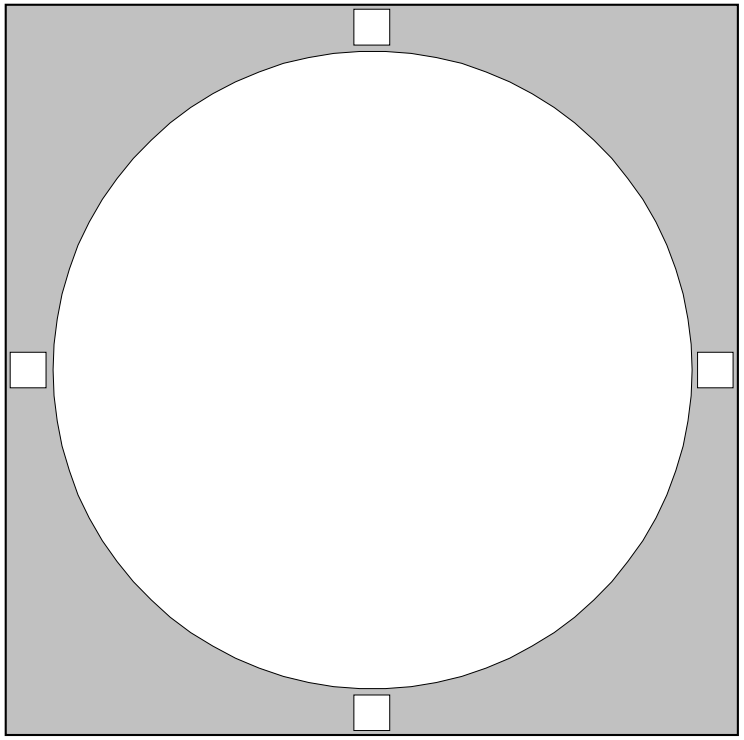
NGC Number		**2194**	
Constellation		**Orion**	
Type		**OC**	
Visual Magnitude**		**8.5**	
Size	Distance	**8.0'**	**5,200 ly**
RA (Epoch 2000.0)		**06:13.8**	
Dec (Epoch 2000.0)		**+12:48**	
UM I	UM II	**182**	**96**
Sky Atlas 2000		**11, 12**	
Season		**Winter**	
Remarks***		**80*, fairly rich; look for 2169 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**2371/2**	
Constellation		**Gemini**	
Type		**PN**	
Visual Magnitude**		**11.3**	
Size	Distance	**>55"**	**3,900 ly**
RA (Epoch 2000.0)		**07:25.6**	
Dec (Epoch 2000.0)		**+29:29**	
UM I	UM II	**100**	**57, 75**
Sky Atlas 2000		**5**	
Season		**Winter**	
Remarks***		**faint double-lobed planetary; use filter**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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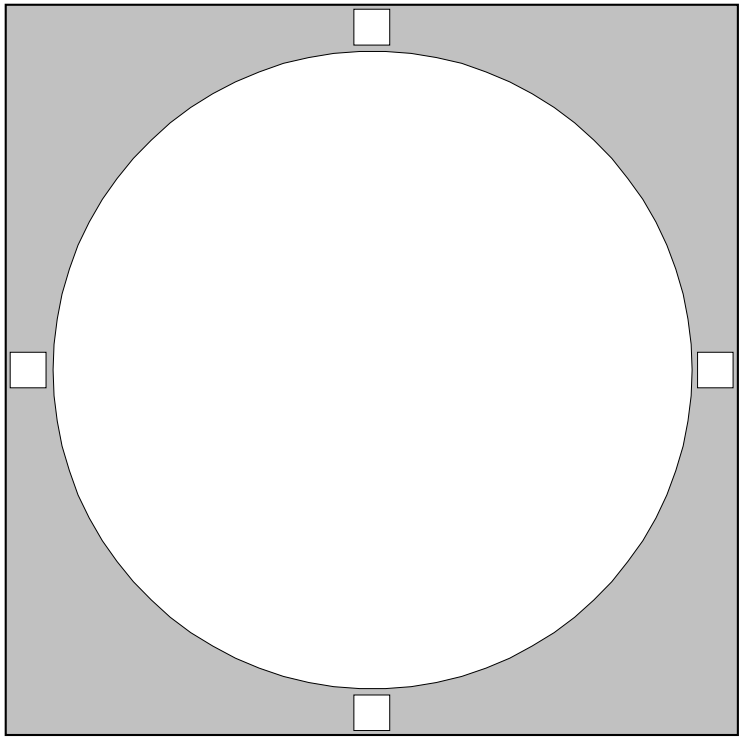
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 31

Clown Face or Eskimo Nebula

NGC Number		**2392**	
Constellation		**Gemini**	
Type		**PN**	
Visual Magnitude**		**9.2**	
Size	Distance	**>15"**	**2,900 ly**
RA (Epoch 2000.0)		**07:29.2**	
Dec (Epoch 2000.0)		**+20:55**	
UM I	UM II	**139**	**75**
Sky Atlas 2000		**5**	
Season		**Winter**	
Remarks***		**!! Clown Face or Eskimo Nebula**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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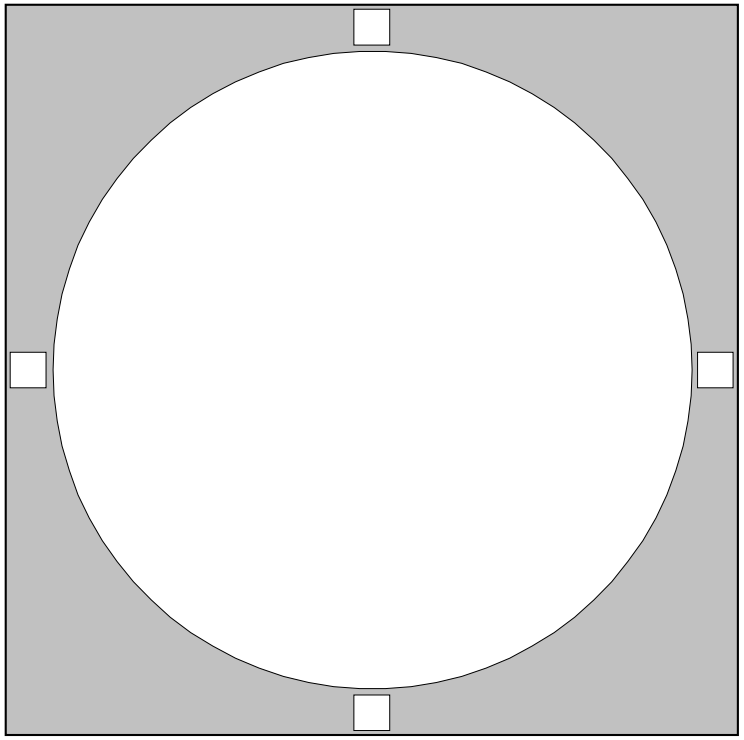
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 32

Rosette Nebula

NGC Number		**2237+**	
Constellation		**Monocerus**	
Type		**EN**	
Visual Magnitude**		**na**	
Size	Distance	**80.0' x 60.0'**	**5,000 ly**
RA (Epoch 2000.0)		**06:32.3**	
Dec (Epoch 2000.0)		**+05:03**	
UM I	UM II	**182, 227**	**95, 96, 115, 116**
Sky Atlas 2000		**11, 12**	
Season		**Winter**	
Remarks***		**!! Rosette Nebula; very large; use filter**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



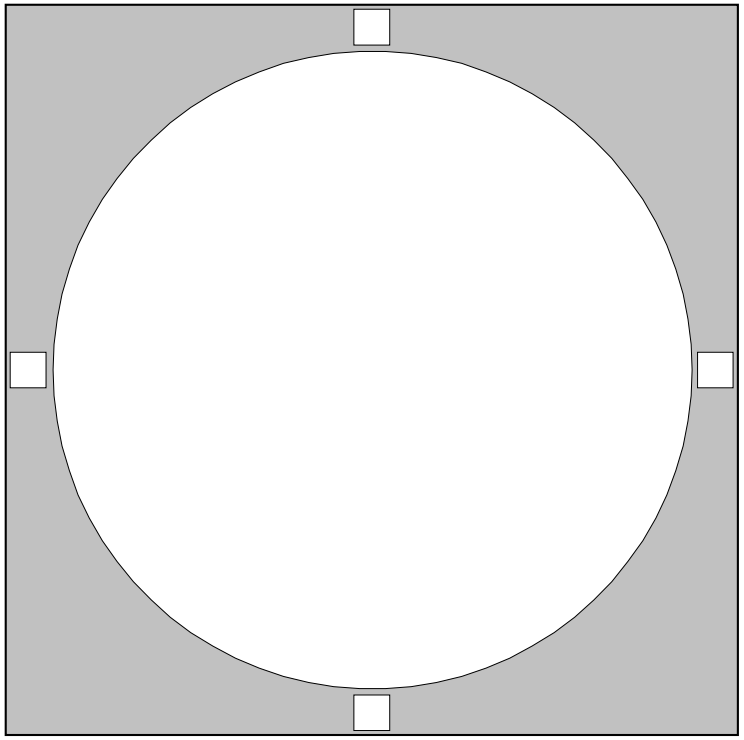
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 33

Hubble's Variable Nebula

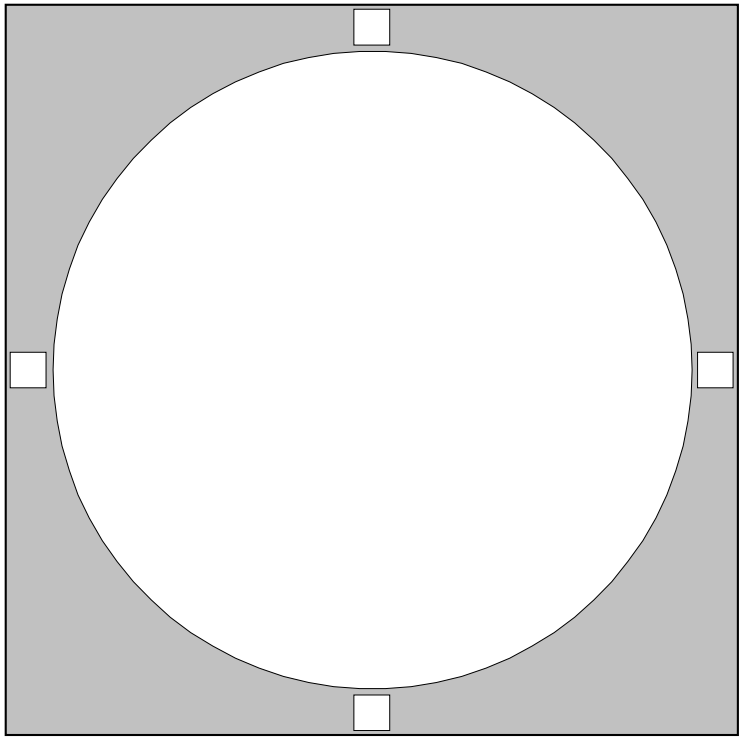
NGC Number		**2261**	
Constellation		**Monocerus**	
Type		**E/RN**	
Visual Magnitude**		**variable**	
Size	Distance	**3.1' x 1.5'**	**3,000 ly**
RA (Epoch 2000.0)		**06:39.2**	
Dec (Epoch 2000.0)		**+08:44**	
UM I	UM II	**182, 183**	**95, 96**
Sky Atlas 2000		**11, 12**	
Season		**Winter**	
Remarks***		**Hubble's Variable Nebula; comet-shaped**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**2359**	
Constellation		**Canis Major**	
Type		**EN**	
Visual Magnitude**		**na**	
Size	Distance	**9.0' x 6.0'**	**4,000 ly**
RA (Epoch 2000.0)		**07:18.6**	
Dec (Epoch 2000.0)		**-13:12**	
UM I	UM II	**274**	**135**
Sky Atlas 2000		**12**	
Season		**Winter**	
Remarks***		**bright; look for NGC 2360 & 2362 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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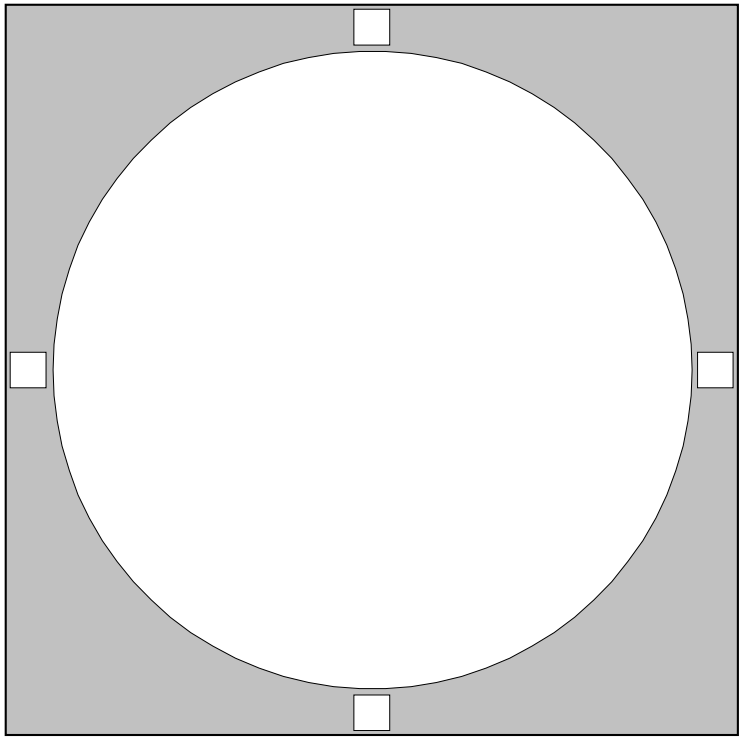
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

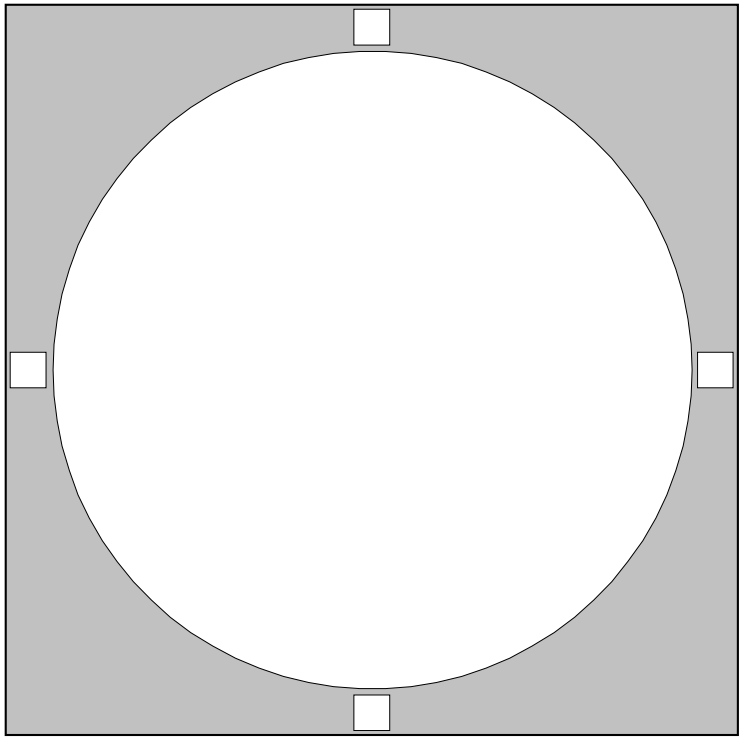
NGC Number		**2440**	
Constellation		**Puppis**	
Type		**PN**	
Visual Magnitude**		**9.4**	
Size	Distance	**>14"**	**3,600 ly**
RA (Epoch 2000.0)		**07:41.9**	
Dec (Epoch 2000.0)		**-18:13**	
UM I	UM II	**319, 320**	**153**
Sky Atlas 2000		**12, 19**	
Season		**Winter**	
Remarks***		**almost star-like; irregular at high power**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

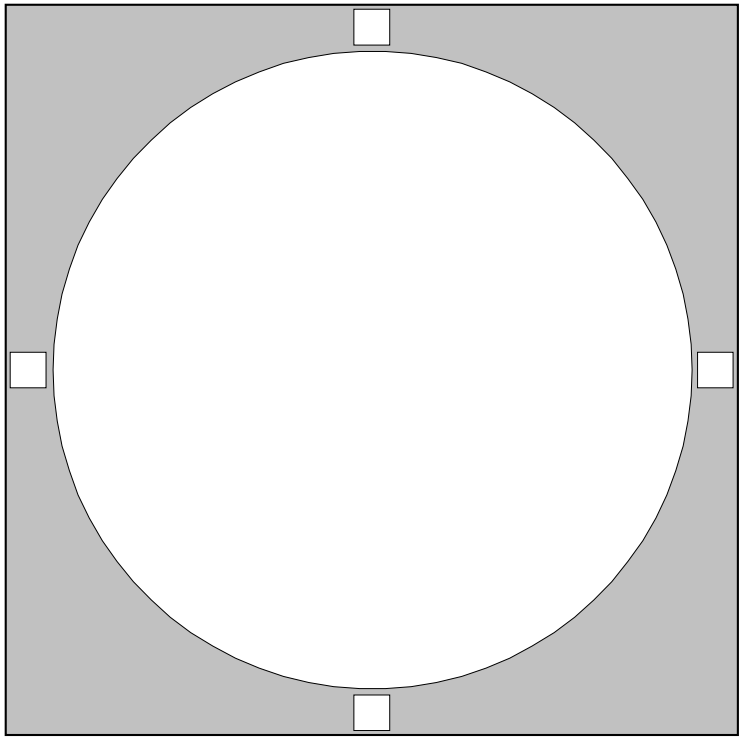
NGC Number		**2539**	
Constellation		**Puppis**	
Type		**OC**	
Visual Magnitude**		**6.5**	
Size	Distance	**21.0'**	**4,200 ly**
RA (Epoch 2000.0)		**08:10.7**	
Dec (Epoch 2000.0)		**-12:50**	
UM I	UM II	**275, 276**	**134**
Sky Atlas 2000		**12, 20**	
Season		**Winter**	
Remarks***		**50*; rich cluster; near M46 and M47**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

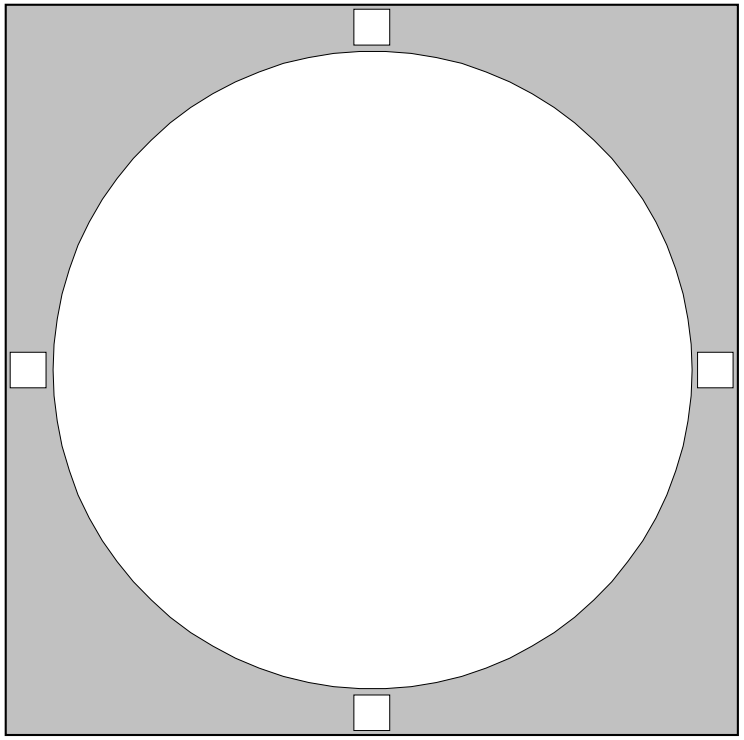
NGC Number		**2403**	
Constellation		**Camelopardalis**	
Type		**G-SABc**	
Visual Magnitude**		**8.5**	
Size	Distance	**26.0' x 13.0'**	**11 million ly**
RA (Epoch 2000.0)		**07:36.9**	
Dec (Epoch 2000.0)		**+65:36**	
UM I	UM II	**8**	**15**
Sky Atlas 2000		**1**	
Season		**Winter**	
Remarks***		**!! very large & bright; visible in binoculars**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

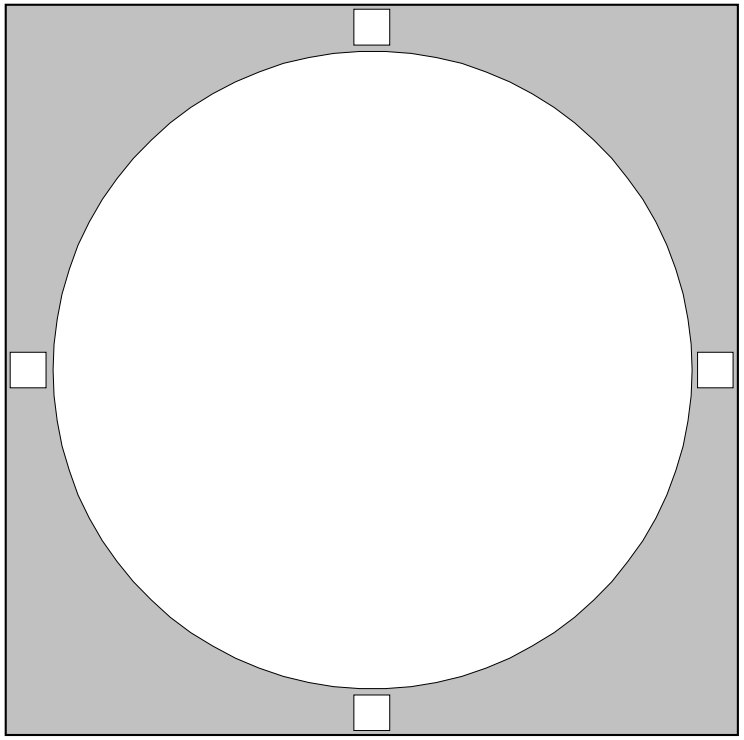
NGC Number		**2655**	
Constellation		**Camelopardalis**	
Type		**G-SAB0**	
Visual Magnitude**		**10.1**	
Size	Distance	**6.0' x 5.3'**	**71 million ly**
RA (Epoch 2000.0)		**08:55.6**	
Dec (Epoch 2000.0)		**+78:13**	
UM I	UM II	**146, 191**	**6**
Sky Atlas 2000		**1, 2**	
Season		**Winter**	
Remarks***		**bright ellipse with star-like nucleus**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**2683**	
Constellation		**Lynx**	
Type		**G-SAb**	
Visual Magnitude**		**9.8**	
Size	Distance	**8.4' x 2.4'**	**11 million ly**
RA (Epoch 2000.0)		**08:52.7**	
Dec (Epoch 2000.0)		**+33:25**	
UM I	UM II	**102**	**56**
Sky Atlas 2000		**6**	
Season		**Spring**	
Remarks***		**nearly edge-on spiral; very bright**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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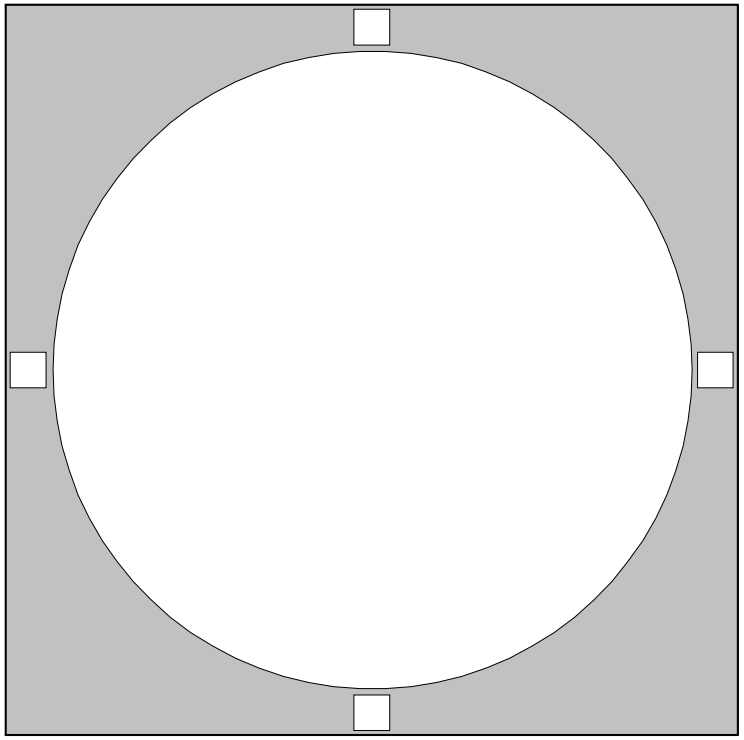
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**2841**	
Constellation		**Ursa Major**	
Type		**G-SAb**	
Visual Magnitude**		**9.2**	
Size	Distance	**6.8' x 3.3'**	**30 million ly**
RA (Epoch 2000.0)		**09:22.0**	
Dec (Epoch 2000.0)		**+50:58**	
UM I	UM II	**44, 71**	**39**
Sky Atlas 2000		**2, 6**	
Season		**Spring**	
Remarks***		**!! classic elongated spiral; very bright**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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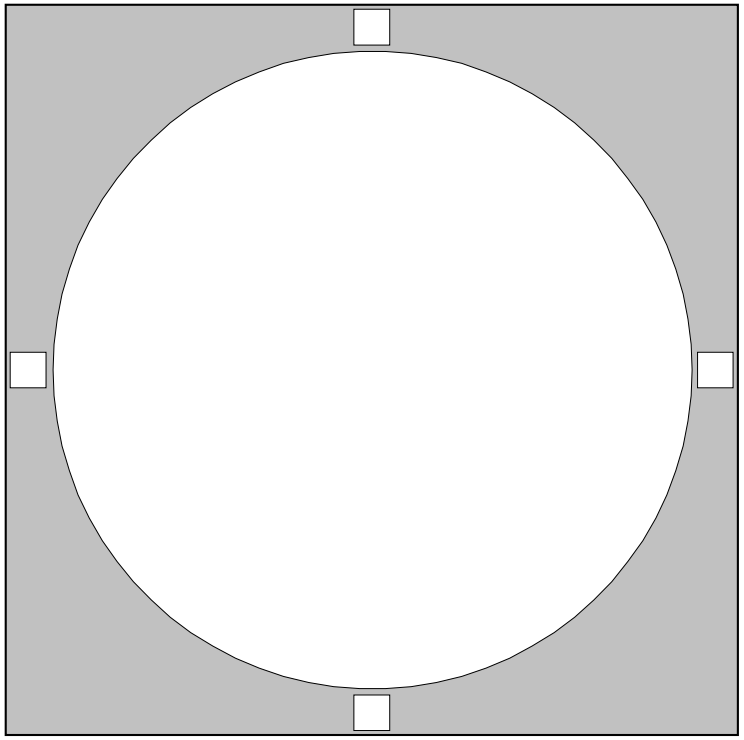
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**3079**	
Constellation		**Ursa Major**	
Type		**G-SBc**	
Visual Magnitude**		**10.9**	
Size	Distance	**8.0' x 1.5'**	**53 million ly**
RA (Epoch 2000.0)		**10:02.2**	
Dec (Epoch 2000.0)		**+55:41**	
UM I	UM II	**45**	**25**
Sky Atlas 2000		**2, 6**	
Season		**Spring**	
Remarks***		**edge-on spiral; NGC 2950 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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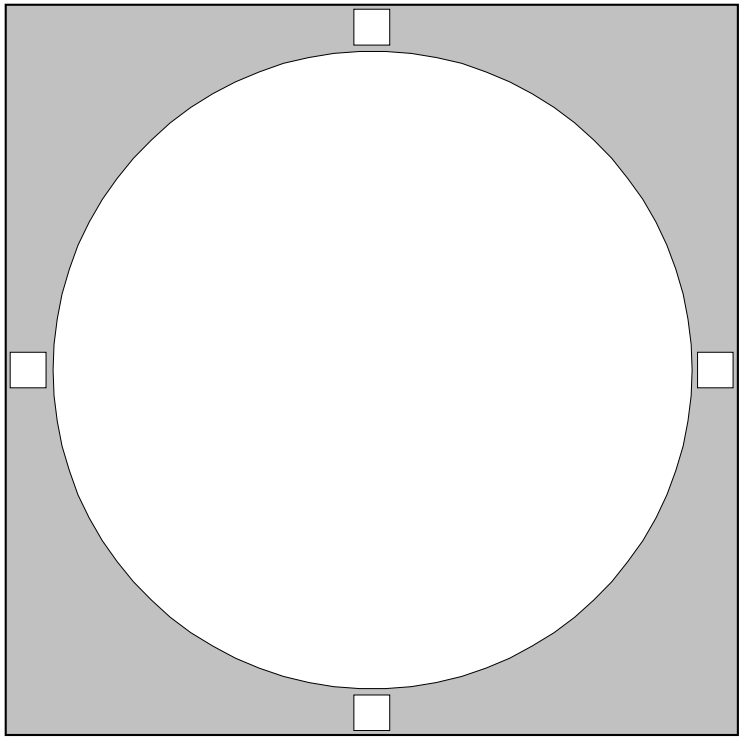
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**3184**	
Constellation		**Ursa Major**	
Type		**G-SABc**	
Visual Magnitude**		**9.8**	
Size	Distance	**7.8' x 7.2'**	**39 million ly**
RA (Epoch 2000.0)		**10:18.3**	
Dec (Epoch 2000.0)		**+41:25**	
UM I	UM II	**72**	**39**
Sky Atlas 2000		**2, 6**	
Season		**Spring**	
Remarks***		**large, diffuse face-on spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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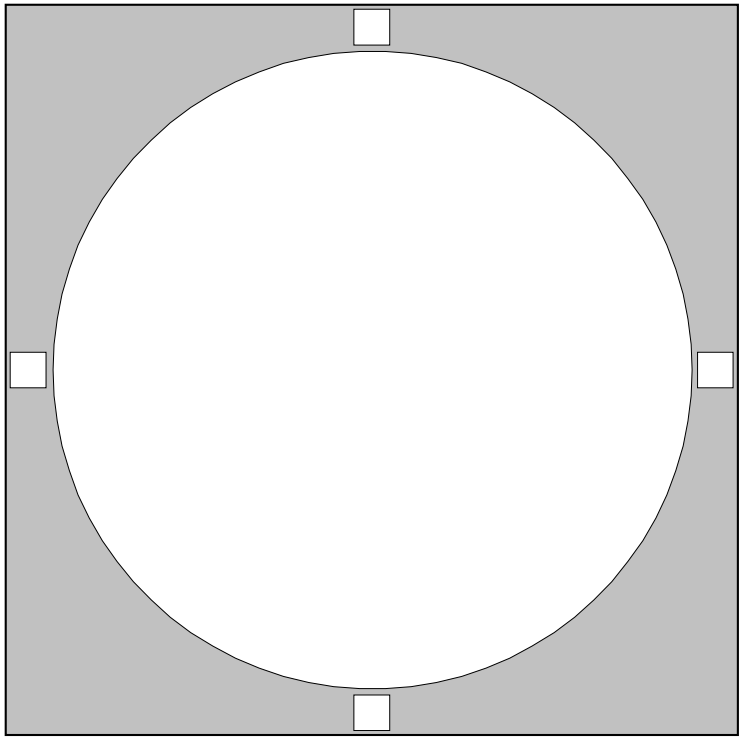
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**3877**	
Constellation		**Ursa Major**	
Type		**G-SAc**	
Visual Magnitude**		**11.0**	
Size	Distance	**5.1' x 1.1'**	**39 million ly**
RA (Epoch 2000.0)		**11:46.1**	
Dec (Epoch 2000.0)		**+47:30**	
UM I	UM II	**74**	**38**
Sky Atlas 2000		**2, 6, 7**	
Season		**Spring**	
Remarks***		**edge-on; same field as chi UMa**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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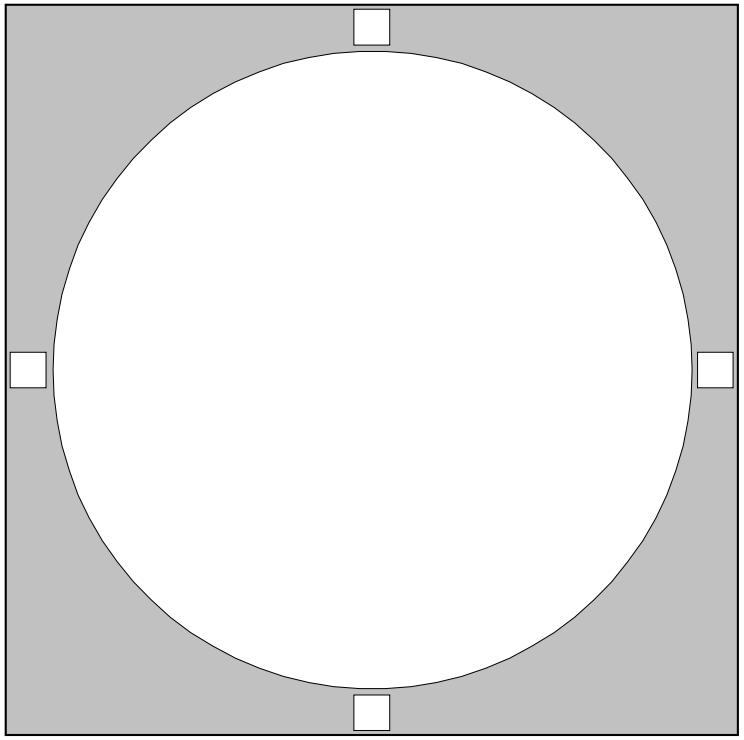
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**3941**	
Constellation		**Ursa Major**	
Type		**G-SB0**	
Visual Magnitude**		**10.3**	
Size	Distance	**3.7' x 2.6'**	**42 million ly**
RA (Epoch 2000.0)		**11:52.9**	
Dec (Epoch 2000.0)		**+36:59**	
UM I	UM II	**107**	**54**
Sky Atlas 2000		**6, 7**	
Season		**Spring**	
Remarks***		**small, bright and elliptical**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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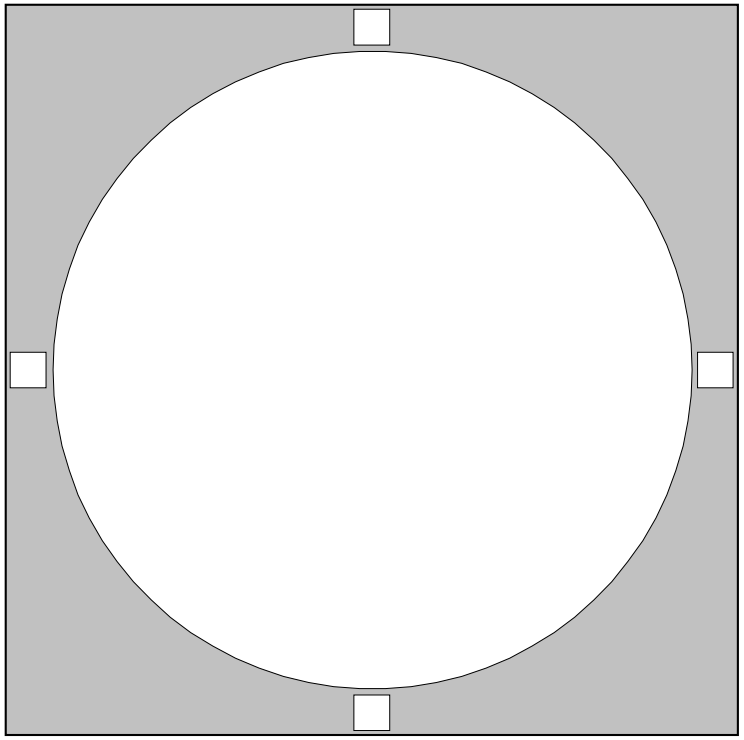
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

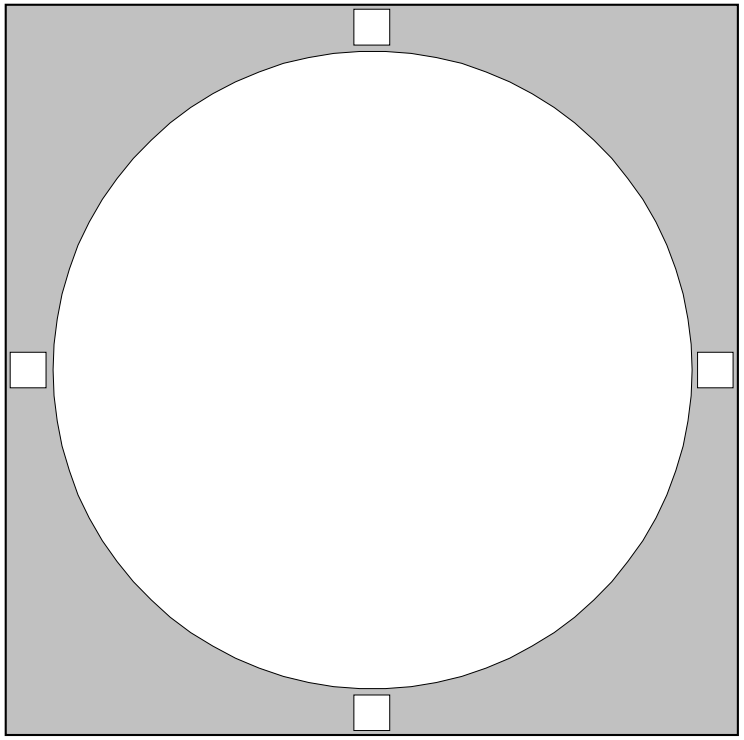
NGC Number		**4026**	
Constellation		**Ursa Major**	
Type		**G-S0**	
Visual Magnitude**		**10.8**	
Size	Distance	**4.6' x 1.2'**	**42 million ly**
RA (Epoch 2000.0)		**11:59.4**	
Dec (Epoch 2000.0)		**+50:58**	
UM I	UM II	**47, 74**	**37, 38**
Sky Atlas 2000		**2, 6, 7**	
Season		**Spring**	
Remarks***		**lens-shaped edge-on near gamma UMa**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

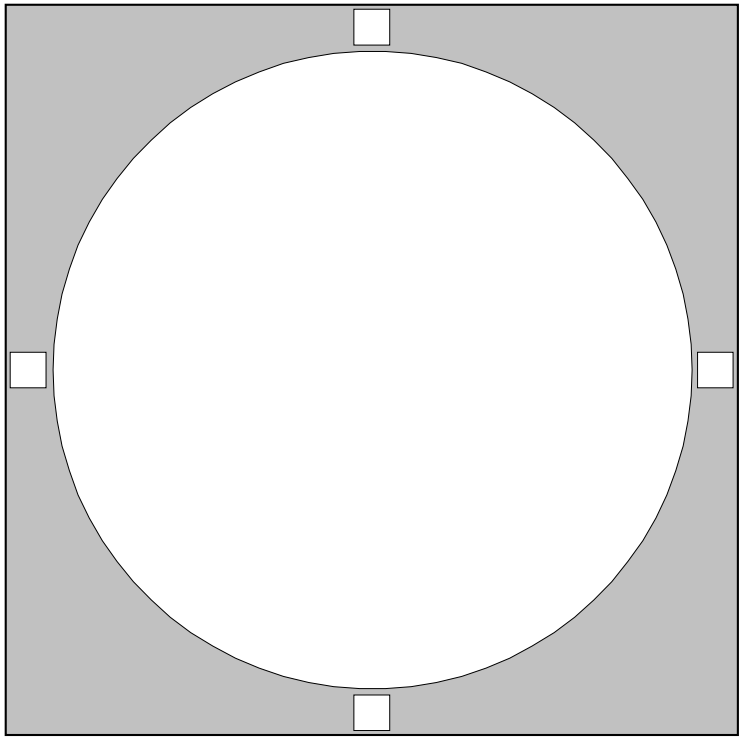
NGC Number		**4088**	
Constellation		**Ursa Major**	
Type		**G-SABbc**	
Visual Magnitude**		**10.6**	
Size	Distance	**5.4' x 2.1'**	**36 million ly**
RA (Epoch 2000.0)		**12:05.6**	
Dec (Epoch 2000.0)		**+50:33**	
UM I	UM II	**47, 74**	**37**
Sky Atlas 2000		**2, 6, 7**	
Season		**Spring**	
Remarks***		**nearly edge-on; NGC 4085 in same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

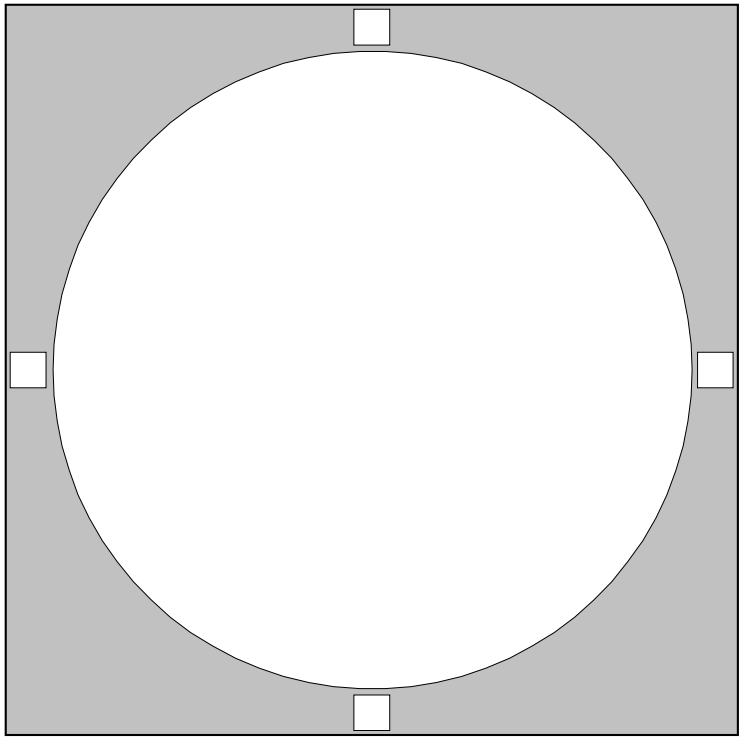
NGC Number		**4157**	
Constellation		**Ursa Major**	
Type		**G-SABb**	
Visual Magnitude**		**11.3**	
Size	Distance	**7.1' x 1.2'**	**39 million ly**
RA (Epoch 2000.0)		**12:11.1**	
Dec (Epoch 2000.0)		**+50:29**	
UM I	UM II	**47, 74**	**37**
Sky Atlas 2000		**2, 6, 7**	
Season		**Spring**	
Remarks***		**a thin sliver; NGCs 4026 & 4088 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**4605**	
Constellation		**Ursa Major**	
Type		**G-SBcp**	
Visual Magnitude**		**10.3**	
Size	Distance	**6.4' x 2.3'**	**12 million ly**
RA (Epoch 2000.0)		**12:40.0**	
Dec (Epoch 2000.0)		**+61:37**	
UM I	UM II	**25, 26, 48**	**24**
Sky Atlas 2000		**2**	
Season		**Spring**	
Remarks***		**bright, distinct edge-on spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



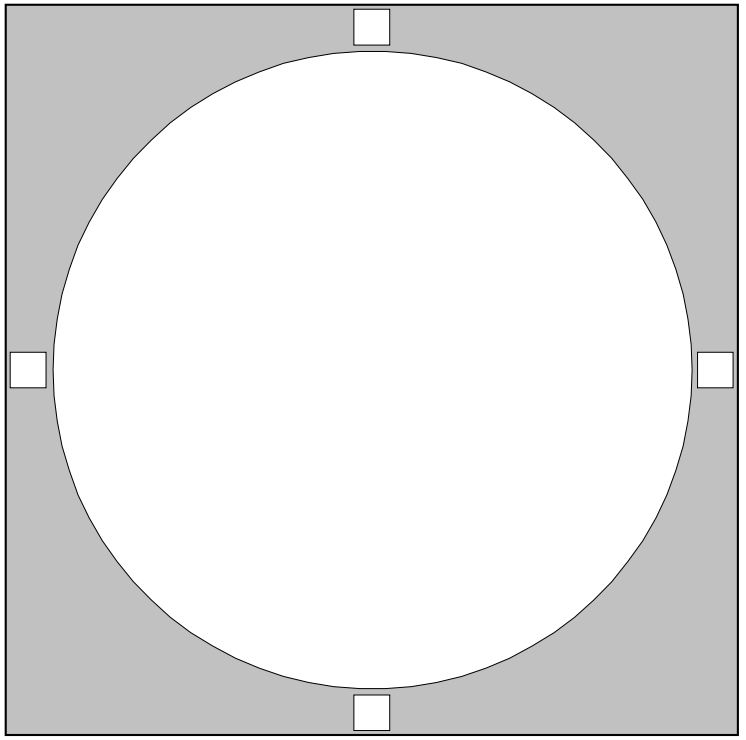
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 49

Spindle Galaxy

NGC Number		**3115**	
Constellation		**Sextans**	
Type		**G-S0-**	
Visual Magnitude**		**8.9**	
Size	Distance	**8.1' x 2.8'**	**21 million ly**
RA (Epoch 2000.0)		**10:05.2**	
Dec (Epoch 2000.0)		**-07:43**	
UM I	UM II	**279**	**133**
Sky Atlas 2000		**13**	
Season		**Spring**	
Remarks***		**Spindle Galaxy; bright and elongated**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



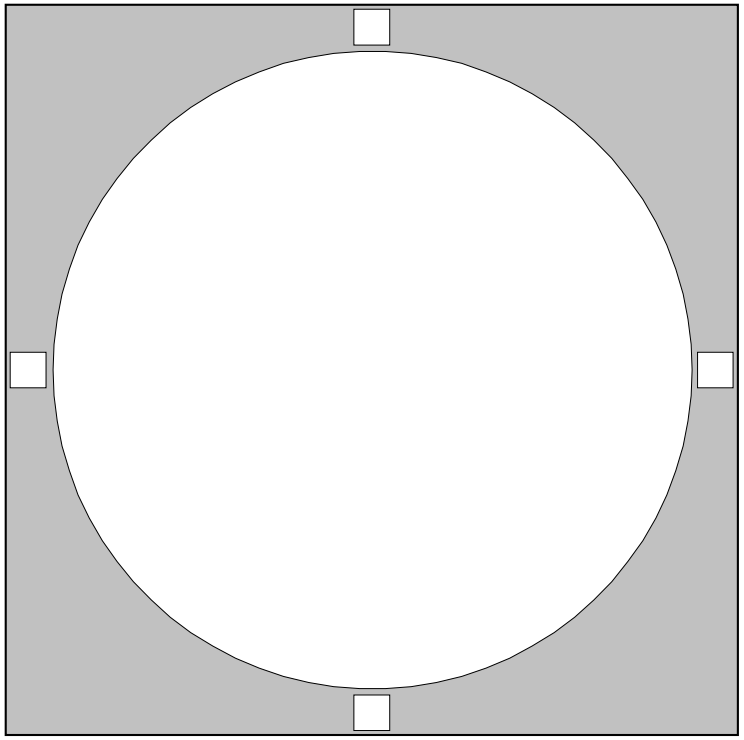
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 50

Ghost of Jupiter

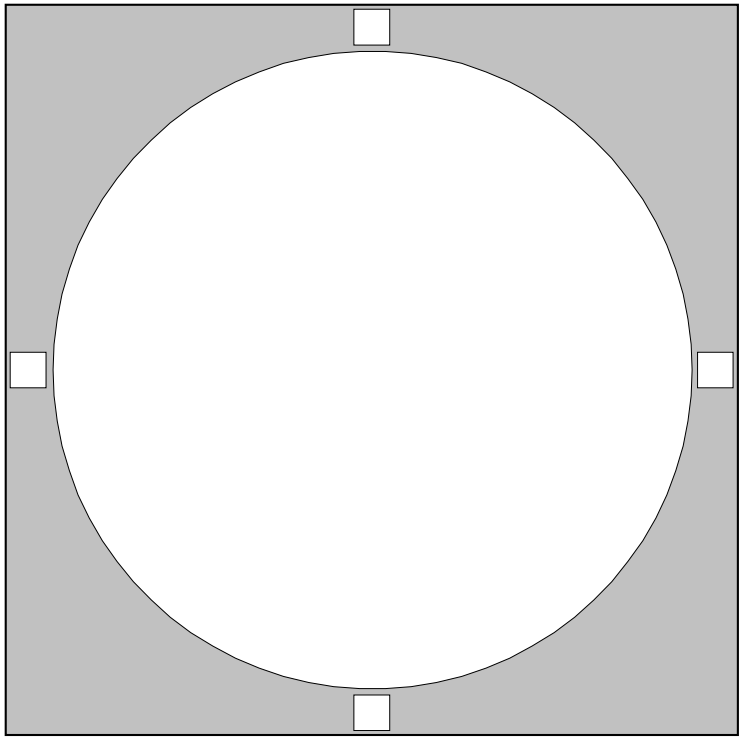
NGC Number		**3242**	
Constellation		**Hydra**	
Type		**PN**	
Visual Magnitude**		**7.8**	
Size	Distance	**>16"**	**2,600 ly**
RA (Epoch 2000.0)		**10:24.8**	
Dec (Epoch 2000.0)		**-18:38**	
UM I	UM II	**324, 325**	**151**
Sky Atlas 2000		**13, 20**	
Season		**Spring**	
Remarks***		**!! Ghost of Jupiter; small but bright**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

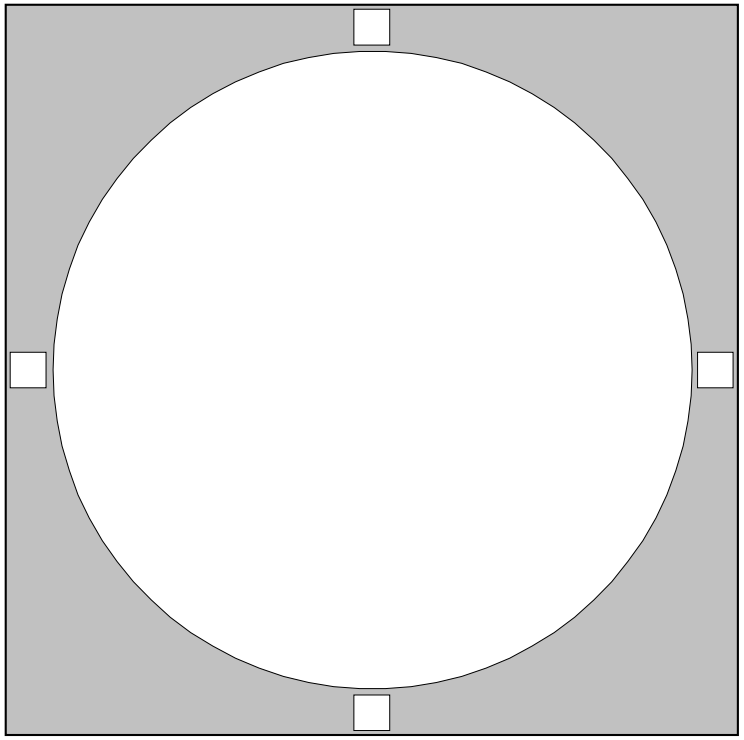
NGC Number		**3003**	
Constellation		**Leo Minor**	
Type		**G-Sbc?**	
Visual Magnitude**		**11.9**	
Size	Distance	**5.2' x 1.6'**	**62 million ly**
RA (Epoch 2000.0)		**09:48.6**	
Dec (Epoch 2000.0)		**+33:25**	
UM I	UM II	**104**	**56**
Sky Atlas 2000		**6**	
Season		**Spring**	
Remarks***		**faint elongated streak**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

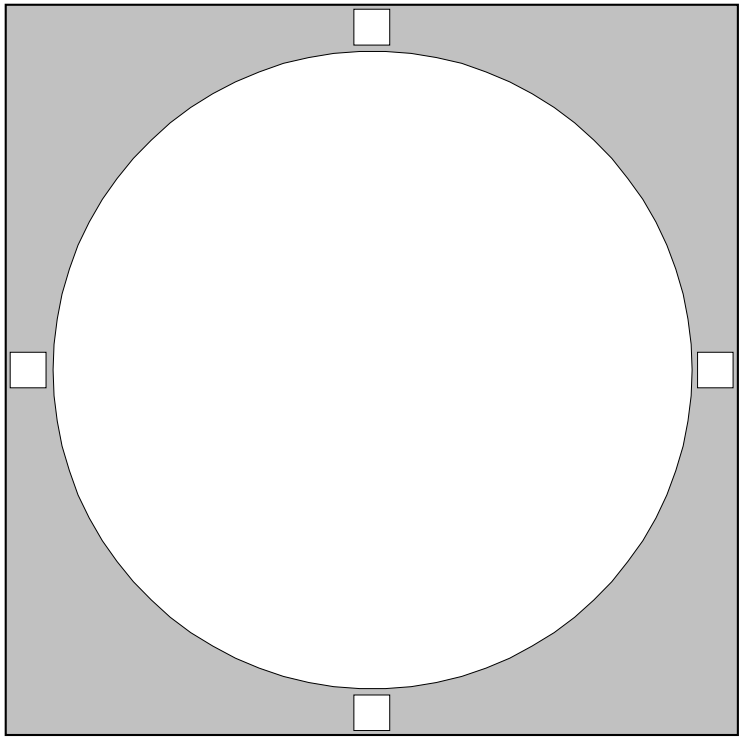
NGC Number		**3344**	
Constellation		**Leo Minor**	
Type		**G-SABbc**	
Visual Magnitude**		**9.9**	
Size	Distance	**6.9' x 6.4'**	**22 million ly**
RA (Epoch 2000.0)		**10:43.5**	
Dec (Epoch 2000.0)		**+24:55**	
UM I	UM II	**145**	**73**
Sky Atlas 2000		**6**	
Season		**Spring**	
Remarks***		**diffuse face-on large spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

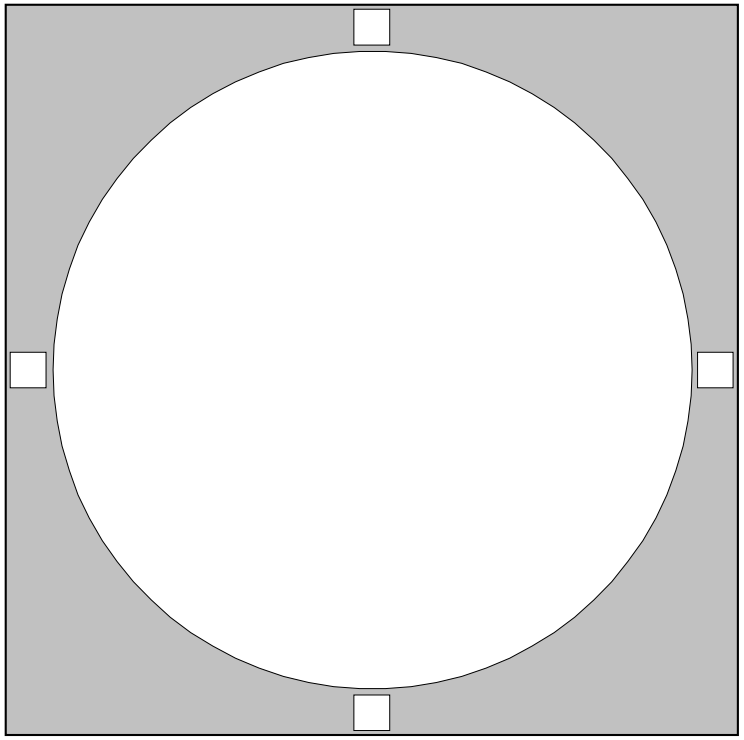
NGC Number		**3432**	
Constellation		**Leo Minor**	
Type		**G-SBm**	
Visual Magnitude**		**11.2**	
Size	Distance	**6.9' x 1.9'**	**27 million ly**
RA (Epoch 2000.0)		**10:52.5**	
Dec (Epoch 2000.0)		**+36:37**	
UM I	UM II	**105**	**55**
Sky Atlas 2000		**2, 6**	
Season		**Spring**	
Remarks***		**nearly edge-on; faint flat streak**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

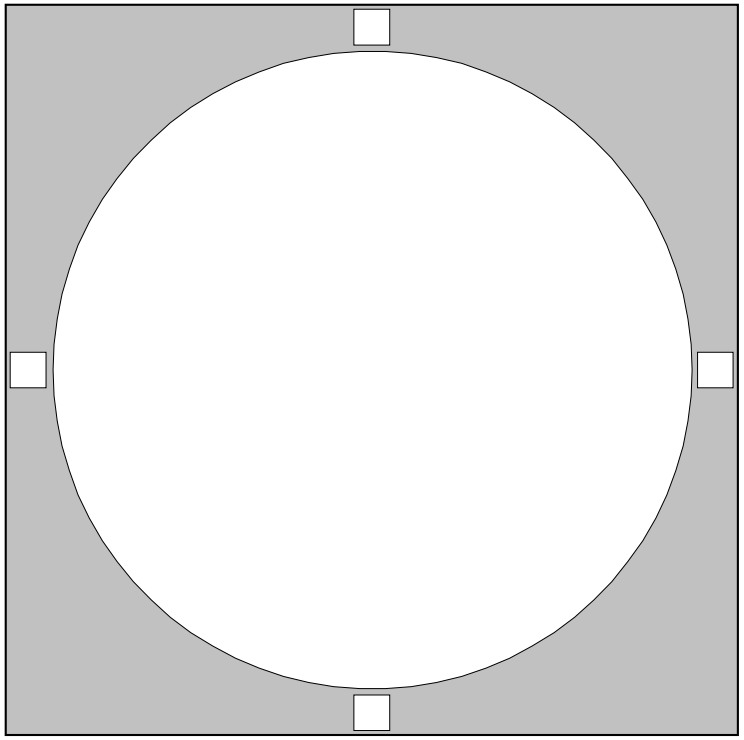
NGC Number		**2903**	
Constellation		**Leo**	
Type		**G-SABbc**	
Visual Magnitude**		**9.0**	
Size	Distance	**12.0' x 6.0'**	**20 million ly**
RA (Epoch 2000.0)		**09:32.2**	
Dec (Epoch 2000.0)		**+21:30**	
UM I	UM II	**143**	**74**
Sky Atlas 2000		**6**	
Season		**Spring**	
Remarks***		**!! very large, bright elongated spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

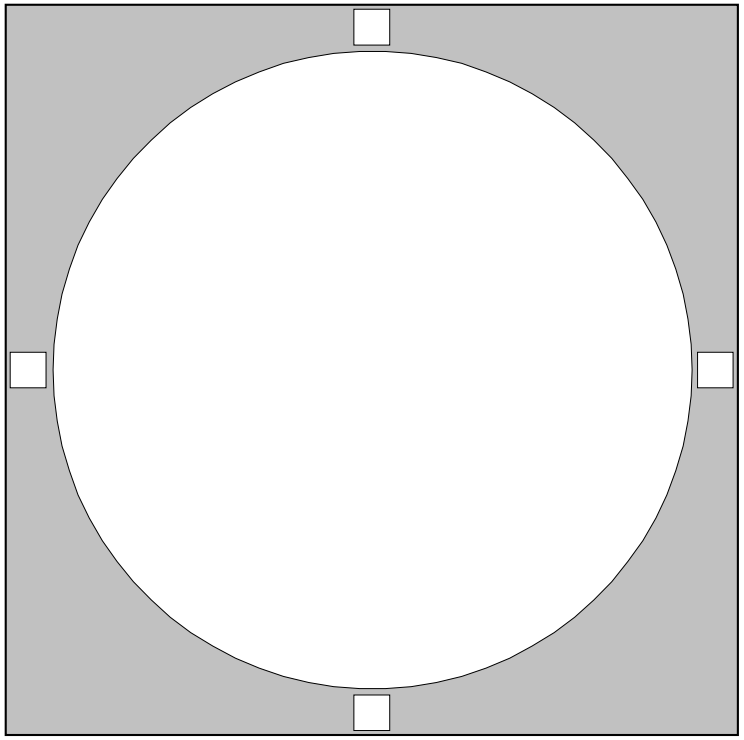
NGC Number		**3384**	
Constellation		**Leo**	
Type		**G-SB0-**	
Visual Magnitude**		**9.9**	
Size	Distance	**5.5' x 2.9'**	**28 million ly**
RA (Epoch 2000.0)		**10:48.3**	
Dec (Epoch 2000.0)		**+12:38**	
UM I	UM II	**190**	**92**
Sky Atlas 2000		**13**	
Season		**Spring**	
Remarks***		**same field as M105 and NGC 3389**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

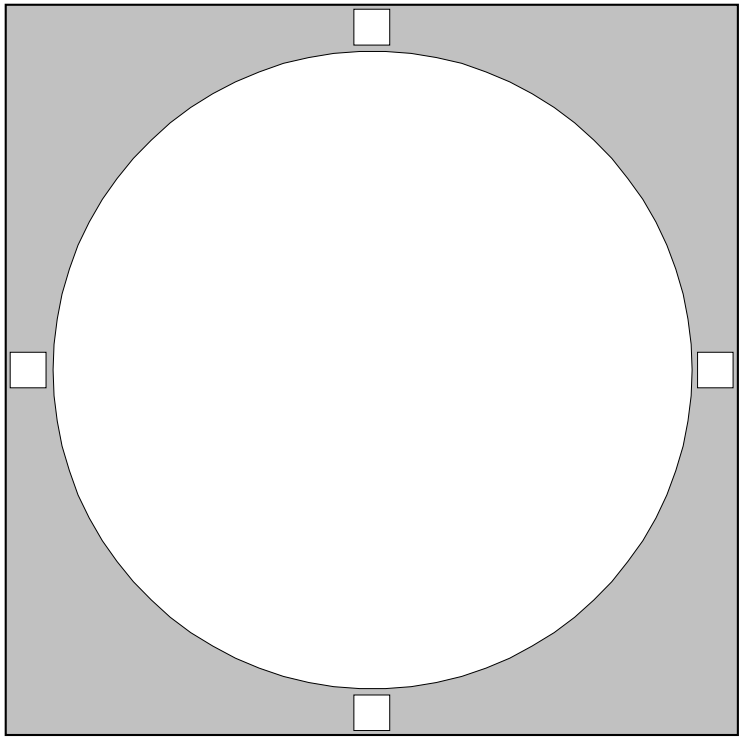
NGC Number		**3521**	
Constellation		**Leo**	
Type		**G-SAb**	
Visual Magnitude**		**9.0**	
Size	Distance	**12.0' x 6.0'**	**28 million ly**
RA (Epoch 2000.0)		**11:05.8**	
Dec (Epoch 2000.0)		**-00:02**	
UM I	UM II	**236**	**112**
Sky Atlas 2000		**13**	
Season		**Spring**	
Remarks***		**very large, bright spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

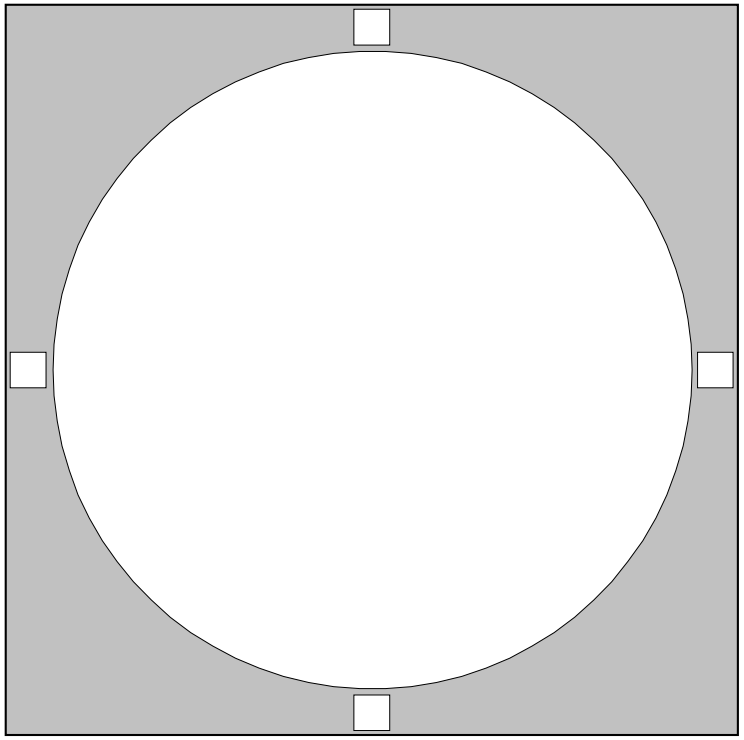
NGC Number		**3607**	
Constellation		**Leo**	
Type		**G-SA0**	
Visual Magnitude**		**9.9**	
Size	Distance	**4.6' x 4.1'**	**37 million ly**
RA (Epoch 2000.0)		**11:16.9**	
Dec (Epoch 2000.0)		**+18:03**	
UM I	UM II	**146**	**72, 73**
Sky Atlas 2000		**6, 13**	
Season		**Spring**	
Remarks***		**NGCs 3605 & 3608 in same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

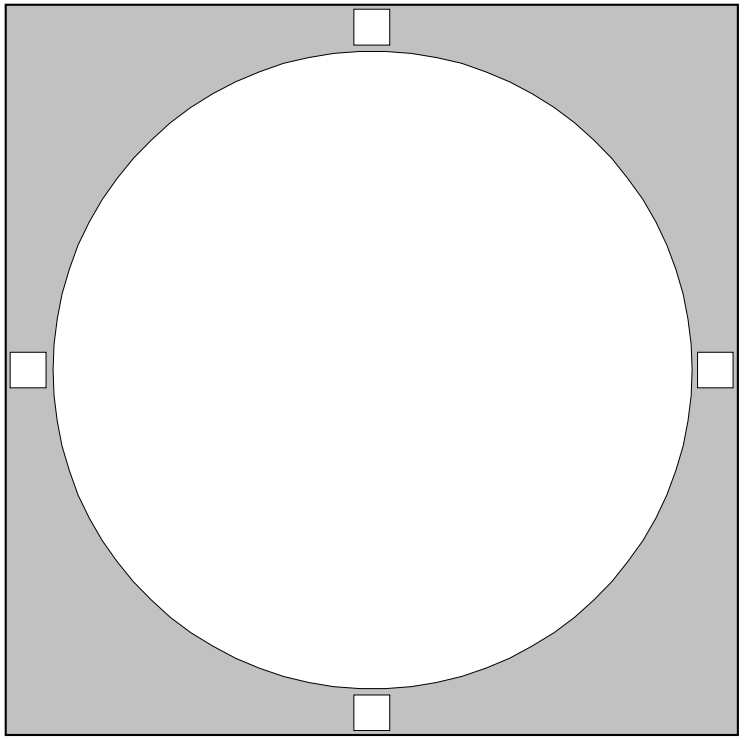
NGC Number		**3628**	
Constellation		**Leo**	
Type		**G-Sb pec**	
Visual Magnitude**		**9.5**	
Size	Distance	**14.0' x 4.0'**	**32 million ly**
RA (Epoch 2000.0)		**11:20.3**	
Dec (Epoch 2000.0)		**+13:36**	
UM I	UM II	**191**	**91, 92**
Sky Atlas 2000		**13**	
Season		**Spring**	
Remarks***		**large edge-on; same field as M65 and M66**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

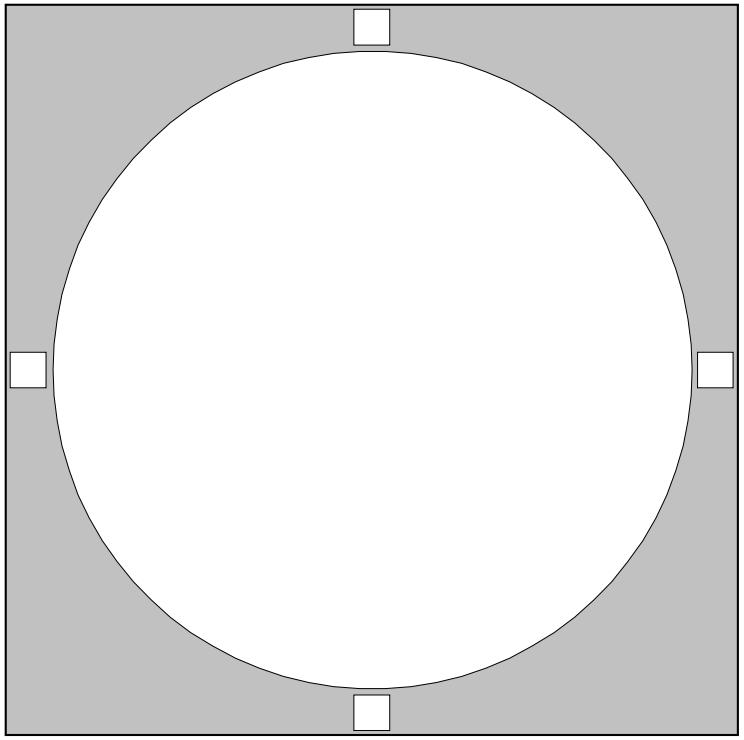
NGC Number		**4111**	
Constellation		**Canes Venatici**	
Type		**G-SA0+**	
Visual Magnitude**		**10.7**	
Size	Distance	**4.4' x 0.9'**	**37 million ly**
RA (Epoch 2000.0)		**12:07.1**	
Dec (Epoch 2000.0)		**+43:04**	
UM I	UM II	**74**	**37**
Sky Atlas 2000		**6, 7**	
Season		**Spring**	
Remarks***		**bright lens-shaped edge-on spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

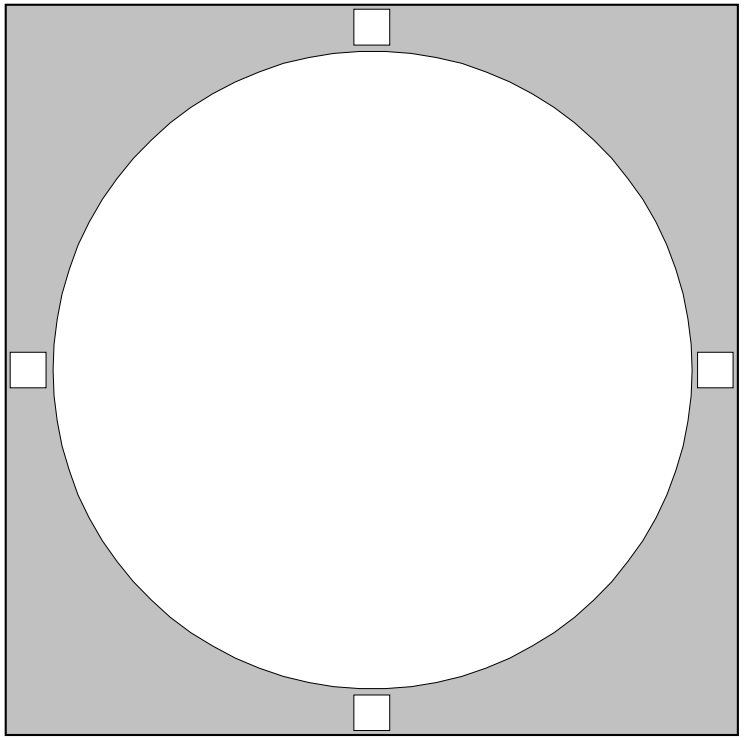
NGC Number		**4214**	
Constellation		**Canes Venatici**	
Type		**G-I AB**	
Visual Magnitude**		**9.8**	
Size	Distance	**10.0' x 8.0'**	**13 million ly**
RA (Epoch 2000.0)		**12:15.6**	
Dec (Epoch 2000.0)		**+36:20**	
UM I	UM II	**107, 108**	**54**
Sky Atlas 2000		**6, 7**	
Season		**Spring**	
Remarks***		**large irregular galaxy**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

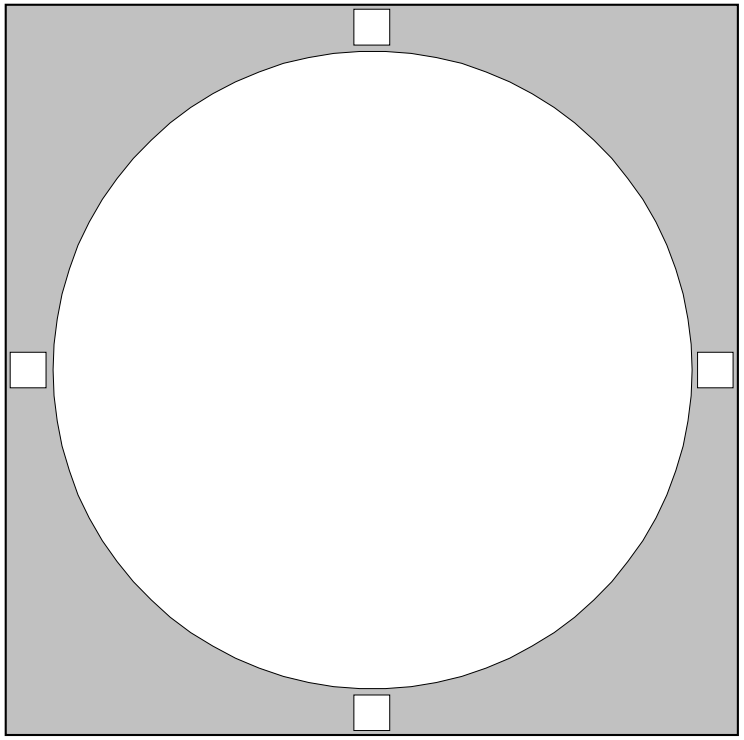
NGC Number		**4244**	
Constellation		**Canes Venatici**	
Type		**G-SAcd**	
Visual Magnitude**		**10.4**	
Size	Distance	**17.0' x 2.0'**	**12 million ly**
RA (Epoch 2000.0)		**12:17.5**	
Dec (Epoch 2000.0)		**+37:49**	
UM I	UM II	**107, 108**	**54**
Sky Atlas 2000		**6, 7**	
Season		**Spring**	
Remarks***		**!! large distinct edge-on spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**4449**	
Constellation		**Canes Venatici**	
Type		**G-I Bm**	
Visual Magnitude**		**9.6**	
Size	Distance	**5.5' x 4.1'**	**11 million ly**
RA (Epoch 2000.0)		**12:28.2**	
Dec (Epoch 2000.0)		**+44:06**	
UM I	UM II	**74, 75**	**37**
Sky Atlas 2000		**6, 7**	
Season		**Spring**	
Remarks***		**bright with odd rectangular shape**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



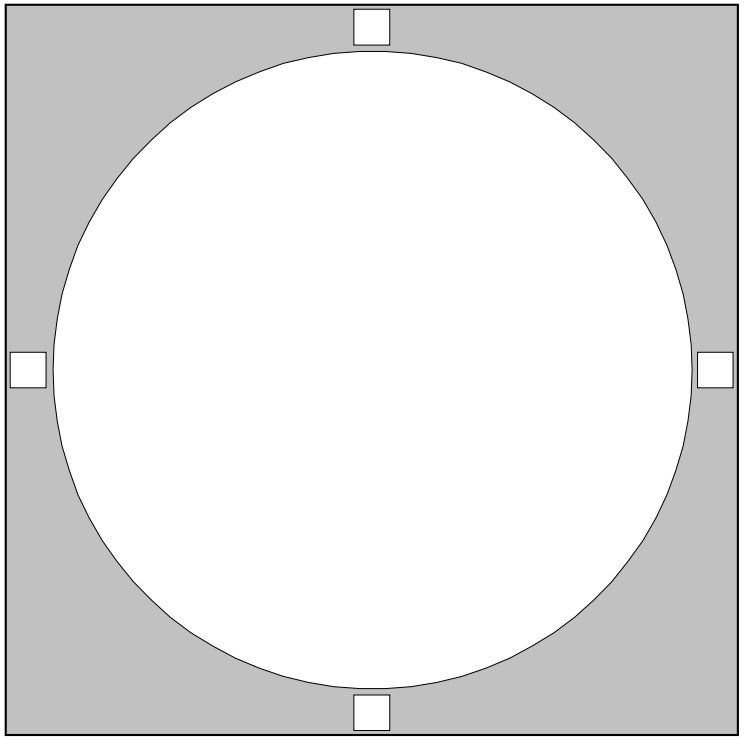
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 63

Cocoon Galaxy

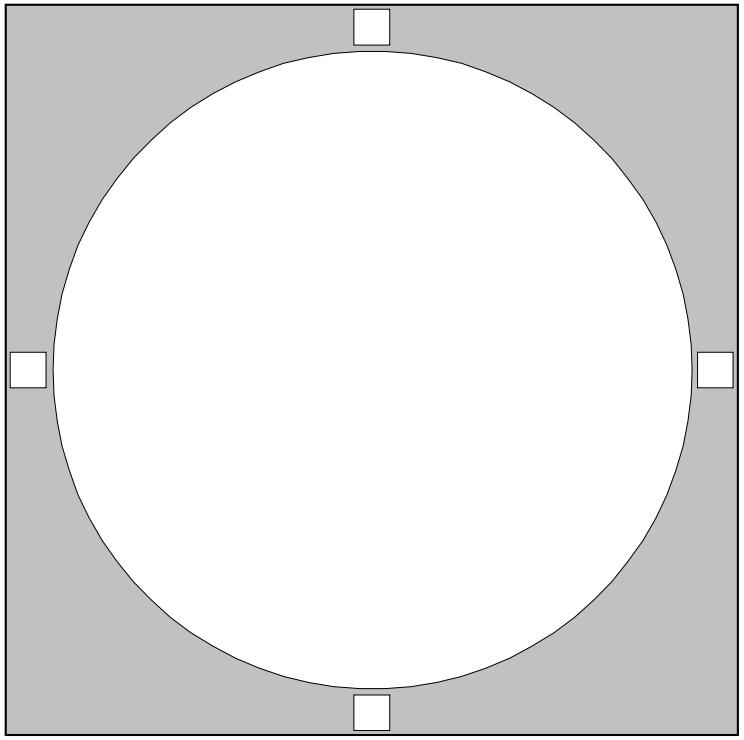
NGC Number		**4490**	
Constellation		**Canes Venatici**	
Type		**G-SBd p**	
Visual Magnitude**		**9.8**	
Size	Distance	**6.4' x 3.3'**	**27 million ly**
RA (Epoch 2000.0)		**12:30.6**	
Dec (Epoch 2000.0)		**+41:38**	
UM I	UM II	**75**	**37**
Sky Atlas 2000		**6, 7**	
Season		**Spring**	
Remarks***		**Cocoon Galaxy: bright spiral; 4485 in field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

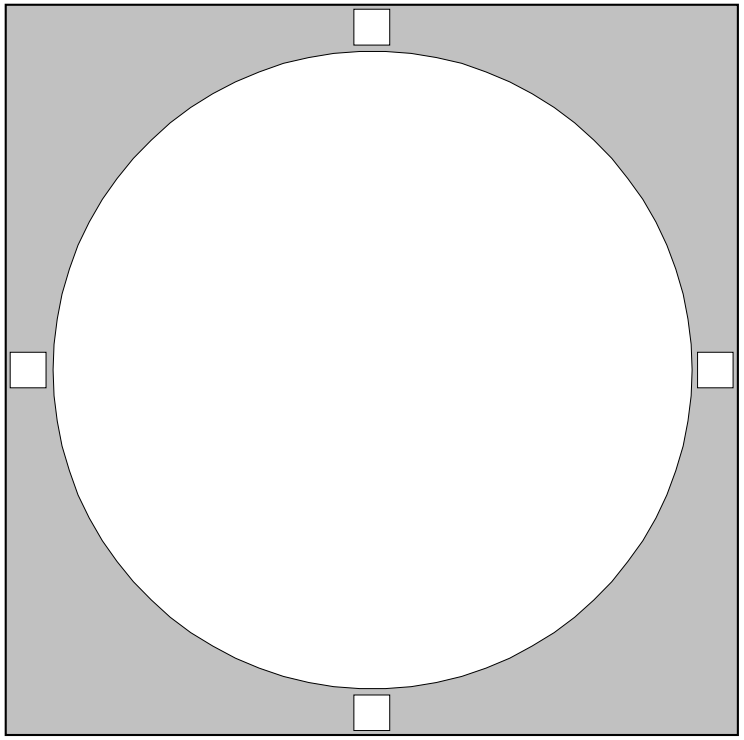
NGC Number		**4631**	
Constellation		**Canes Venatici**	
Type		**G-SBd**	
Visual Magnitude**		**9.2**	
Size	Distance	**16.0' x 3.0'**	**28 million ly**
RA (Epoch 2000.0)		**12:42.1**	
Dec (Epoch 2000.0)		**+32:32**	
UM I	UM II	**108**	**53, 54**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**!! large edge-on; with companion 4627**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

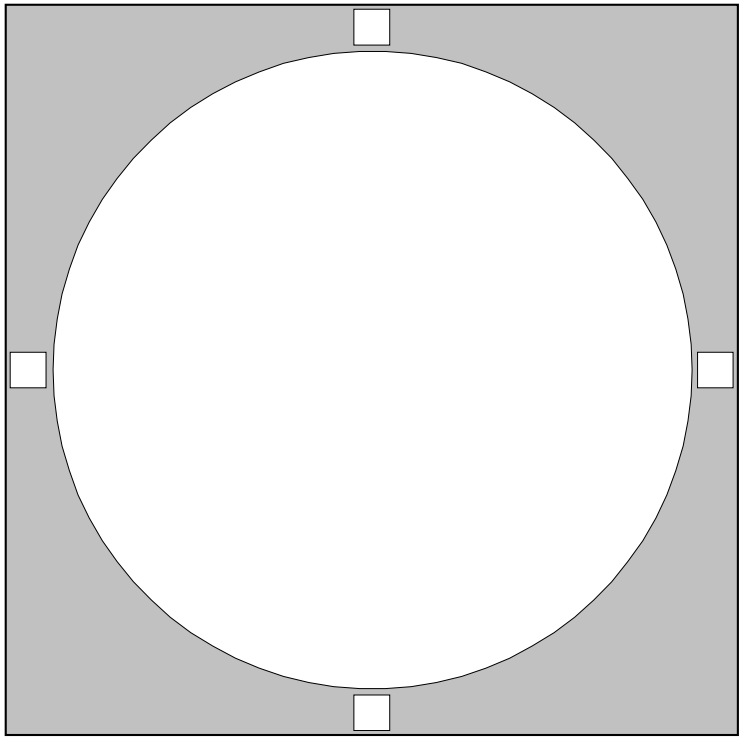
NGC Number		**4656/7**	
Constellation		**Canes Venatici**	
Type		**G-SBm p**	
Visual Magnitude**		**10.5**	
Size	Distance	**20.0' x 3.0'**	**29 million ly**
RA (Epoch 2000.0)		**12:44.0**	
Dec (Epoch 2000.0)		**+32:10**	
UM I	UM II	**108**	**53, 54**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**!! in field with 4631; NE end curves up**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

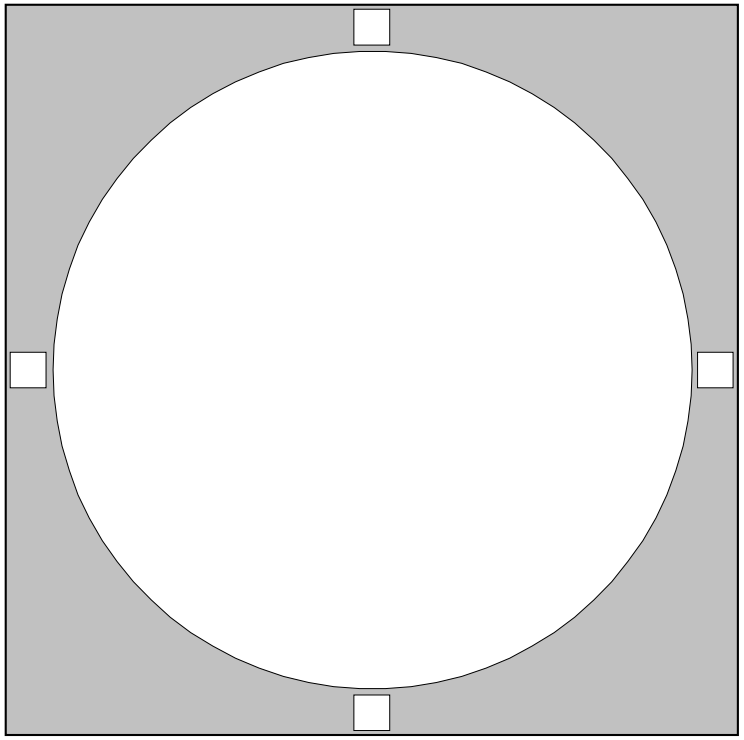
NGC Number		**5005**	
Constellation		**Canes Venatici**	
Type		**G-SABbc**	
Visual Magnitude**		**9.8**	
Size	Distance	**5.8' x 2.8'**	**47 million ly**
RA (Epoch 2000.0)		**13:10.9**	
Dec (Epoch 2000.0)		**+37:03**	
UM I	UM II	**109**	**53**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**bright elongated spiral near alpha CVn**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

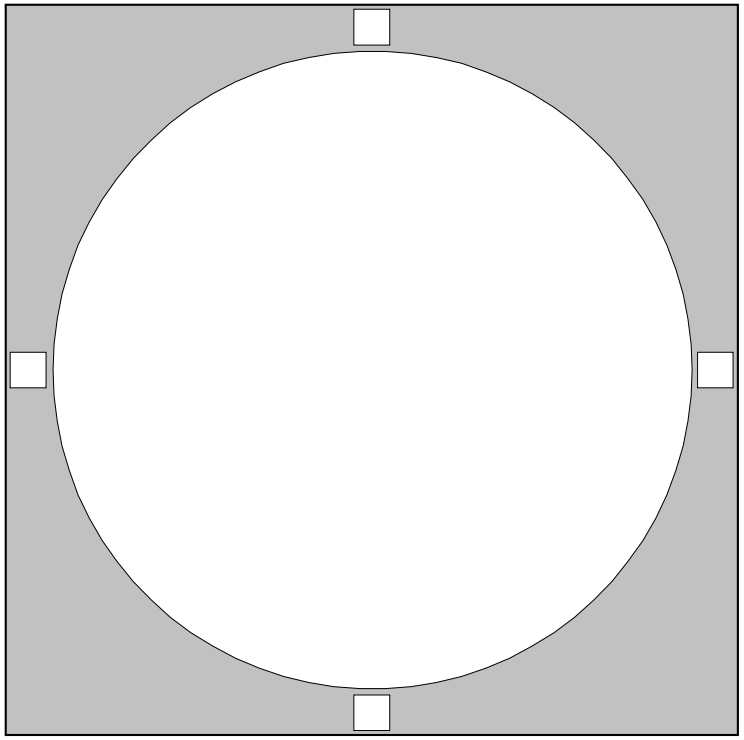
NGC Number		**5033**	
Constellation		**Canes Venatici**	
Type		**G-SAc**	
Visual Magnitude**		**10.2**	
Size	Distance	**10.0' x 5.0'**	**42 million ly**
RA (Epoch 2000.0)		**13:13.4**	
Dec (Epoch 2000.0)		**+36:36**	
UM I	UM II	**109**	**53**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**large bright spiral near NGC 5005**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

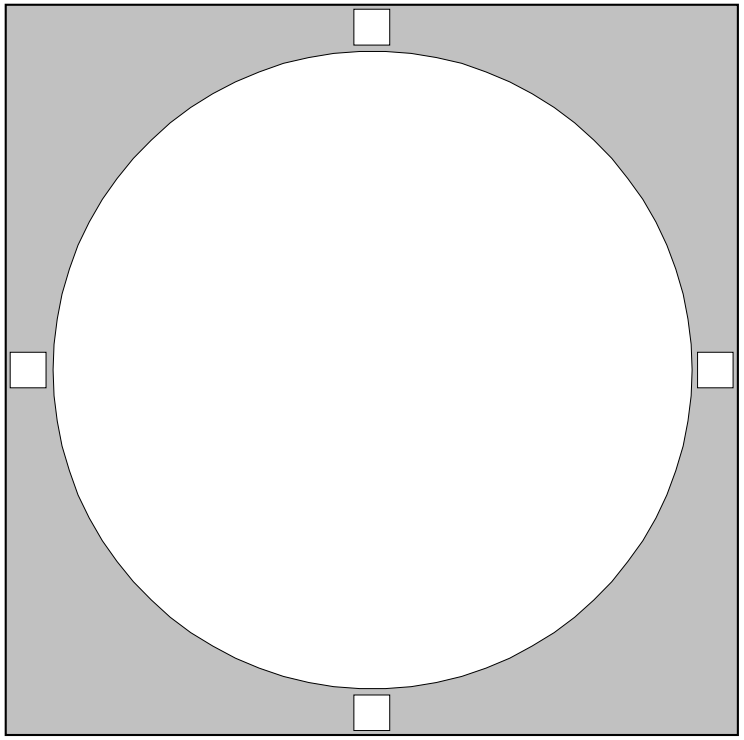
NGC Number		**4274**	
Constellation		**Coma Berenices**	
Type		**G-SBab**	
Visual Magnitude**		**10.4**	
Size	Distance	**6.7' x 2.5'**	**31 million ly**
RA (Epoch 2000.0)		**12:19.8**	
Dec (Epoch 2000.0)		**+29:37**	
UM I	UM II	**107, 108**	**54, 72**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**NGCs 4278/83/86 in same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

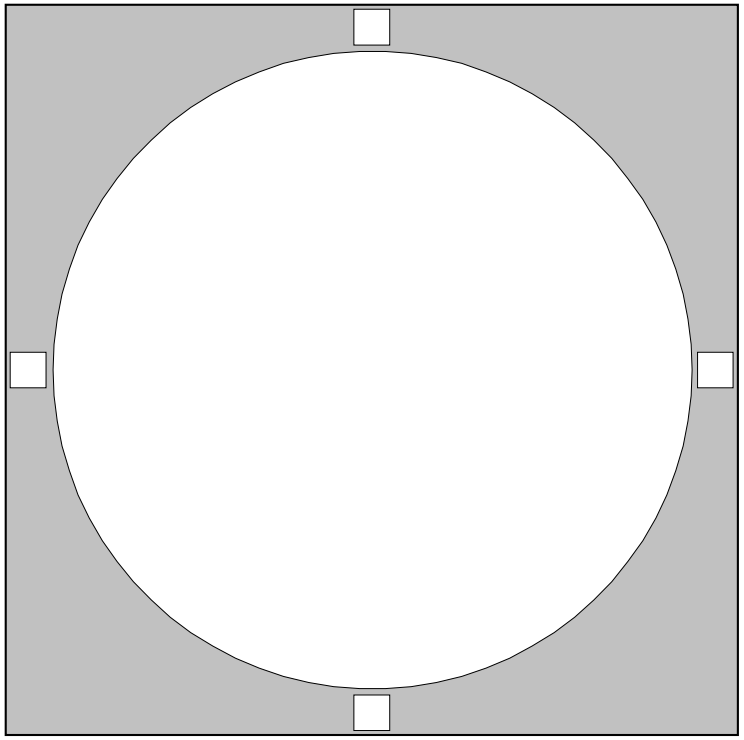
NGC Number		**4414**	
Constellation		**Coma Berenices**	
Type		**G-SAc**	
Visual Magnitude**		**10.1**	
Size	Distance	**4.4' x 3.0'**	**31 million ly**
RA (Epoch 2000.0)		**12:26.4**	
Dec (Epoch 2000.0)		**+31:13**	
UM I	UM II	**108**	**54**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**bright spiral with star-like nucleus**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

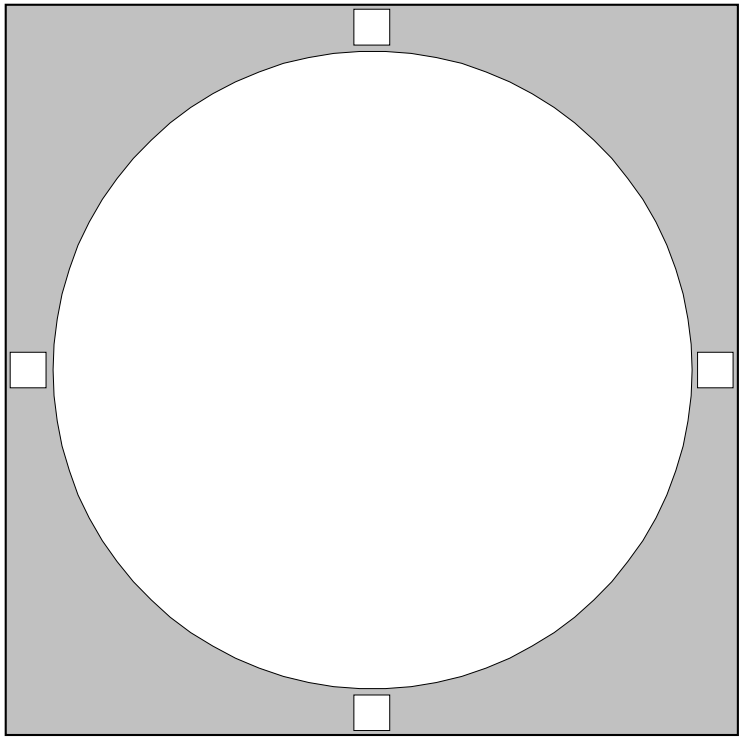
NGC Number		**4494**	
Constellation		**Coma Berenices**	
Type		**G-E1-2**	
Visual Magnitude**		**9.8**	
Size	Distance	**4.6' x 4.4'**	**56 million ly**
RA (Epoch 2000.0)		**12:31.4**	
Dec (Epoch 2000.0)		**+25:47**	
UM I	UM II	**148, 149**	**72**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**small bright elliptical**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

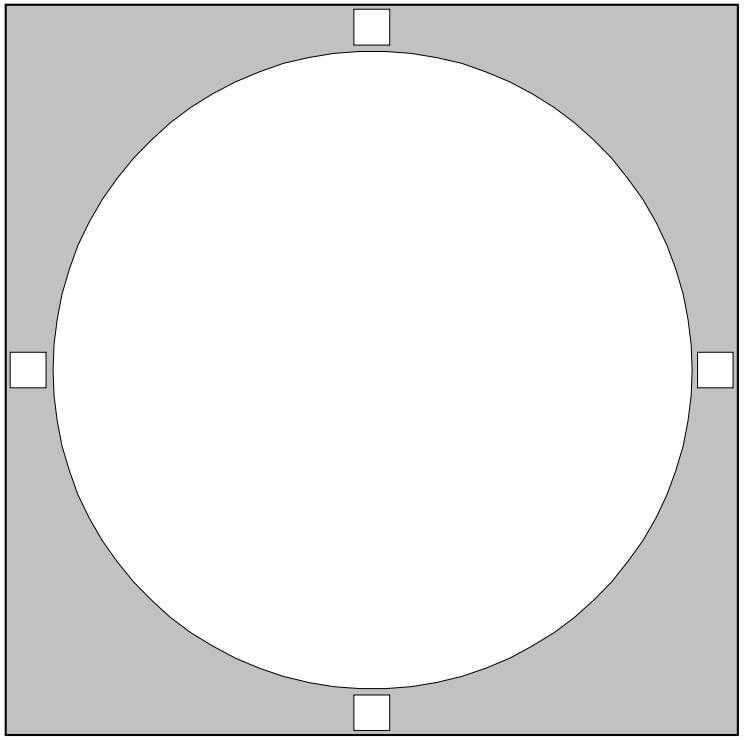
NGC Number		**4559**	
Constellation		**Coma Berenices**	
Type		**G-SABc**	
Visual Magnitude**		**10.0**	
Size	Distance	**12.0' x 5.0'**	**35 million ly**
RA (Epoch 2000.0)		**12:36.0**	
Dec (Epoch 2000.0)		**+27:58**	
UM I	UM II	**108, 148, 149**	**72**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**large spiral with coarse structure**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

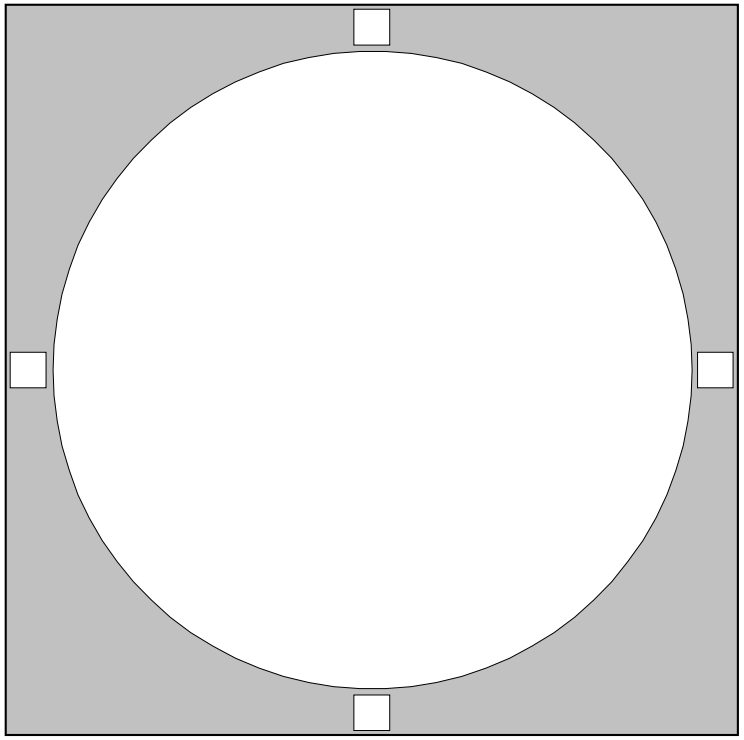
NGC Number		**4565**	
Constellation		**Coma Berenices**	
Type		**G-SAb**	
Visual Magnitude**		**9.6**	
Size	Distance	**14.0' x 2.0'**	**49 million ly**
RA (Epoch 2000.0)		**12:36.3**	
Dec (Epoch 2000.0)		**+25:59**	
UM I	UM II	**149**	**71, 72**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**!! superb edge-on spiral with dust lane**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**4725**	
Constellation		**Coma Berenices**	
Type		**G-SABab**	
Visual Magnitude**		**9.4**	
Size	Distance	**10.0' x 8.0'**	**49 million ly**
RA (Epoch 2000.0)		**12:50.4**	
Dec (Epoch 2000.0)		**+25:30**	
UM I	UM II	**149**	**71**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**very bright, large spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



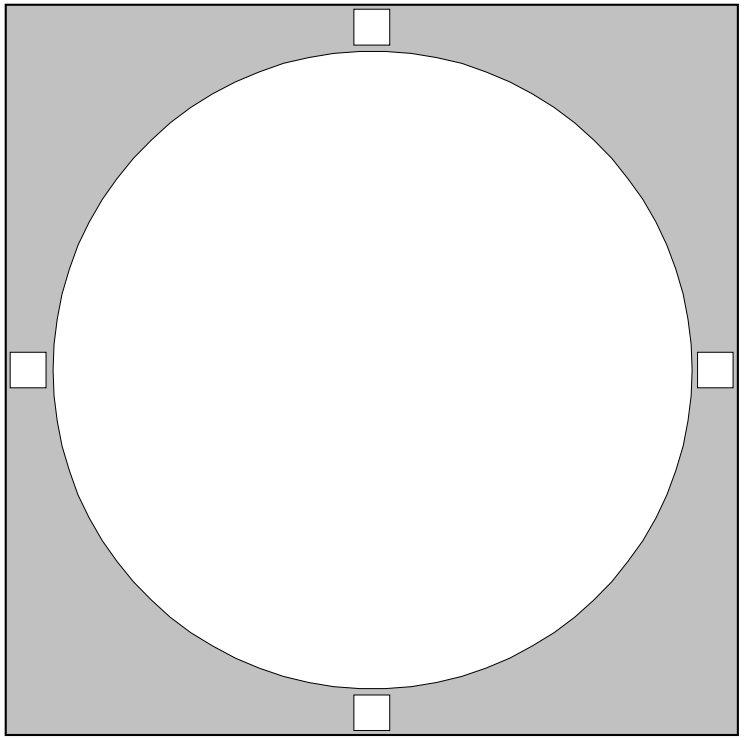
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 74

Antennae or Rattail galaxy

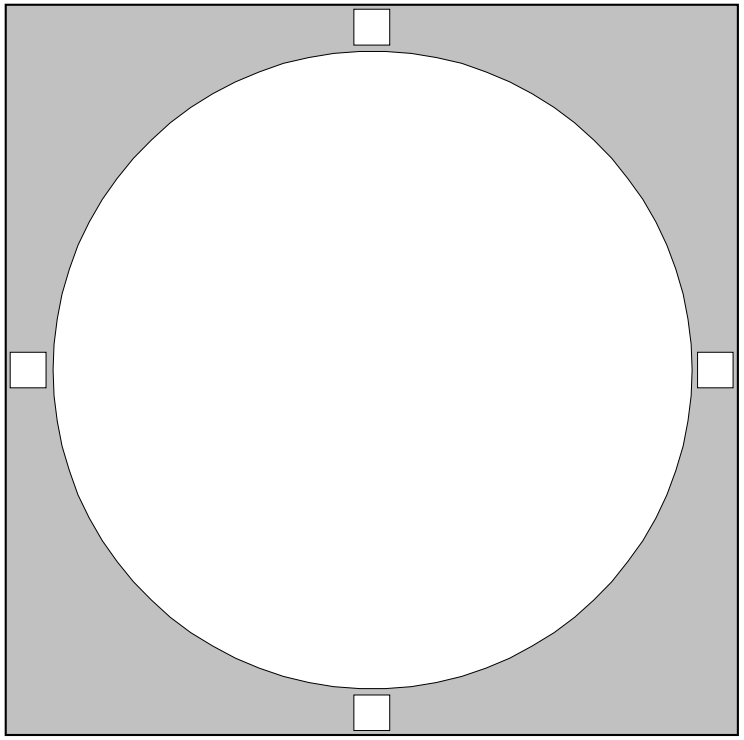
NGC Number		**4038/9**	
Constellation		**Corvus**	
Type		**G-SB/IB**	
Visual Magnitude**		**~10.4**	
Size	Distance	**~5.0 x ~3.0' each**	**63 million ly**
RA (Epoch 2000.0)		**12:01.9**	
Dec (Epoch 2000.0)		**-18:52**	
UM I	UM II	**327, 328**	**150**
Sky Atlas 2000		**13, 14, 20, 21**	
Season		**Spring**	
Remarks***		**"Antennae" or "Rattail" interacting galaxies**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

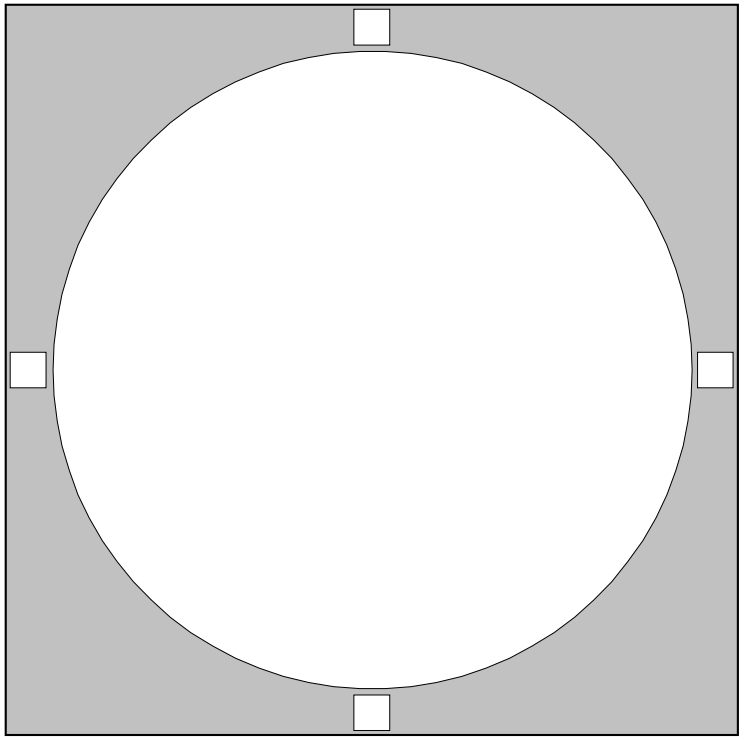
NGC Number		**4361**	
Constellation		**Corvus**	
Type		**PN**	
Visual Magnitude**		**10.4**	
Size	Distance	**>45"**	**2,600 ly**
RA (Epoch 2000.0)		**12:24.5**	
Dec (Epoch 2000.0)		**-18:48**	
UM I	UM II	**328**	**150**
Sky Atlas 2000		**13, 14, 21**	
Season		**Spring**	
Remarks***		**small and bright; with 13th-mag central star**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

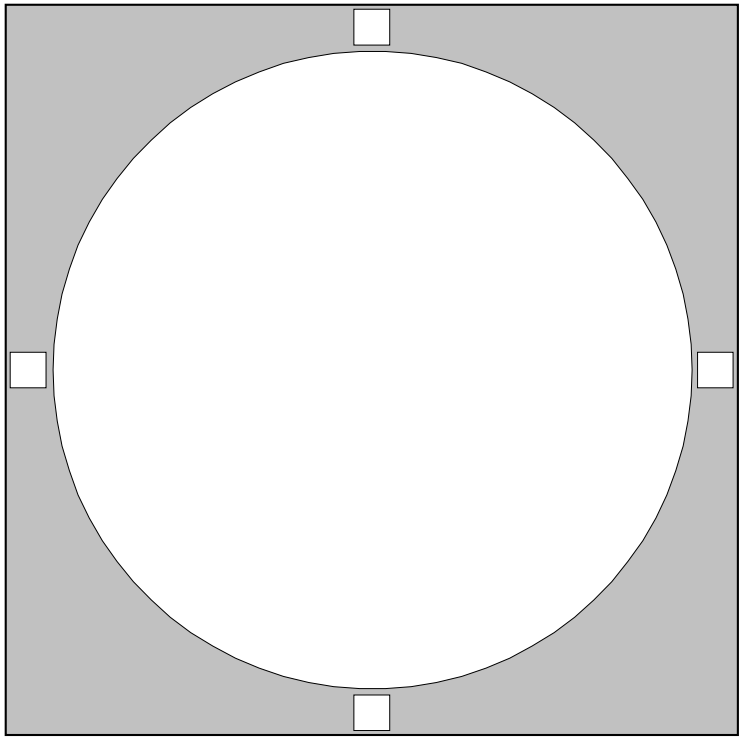
NGC Number		**4216**	
Constellation		**Virgo**	
Type		**G-SABb**	
Visual Magnitude**		**10.0**	
Size	Distance	**7.8' x 1.6'**	**50 million ly**
RA (Epoch 2000.0)		**12:15.9**	
Dec (Epoch 2000.0)		**+13:09**	
UM I	UM II	**193**	**91**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**nearly edge-on; with NGCs 4206 & 4222**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

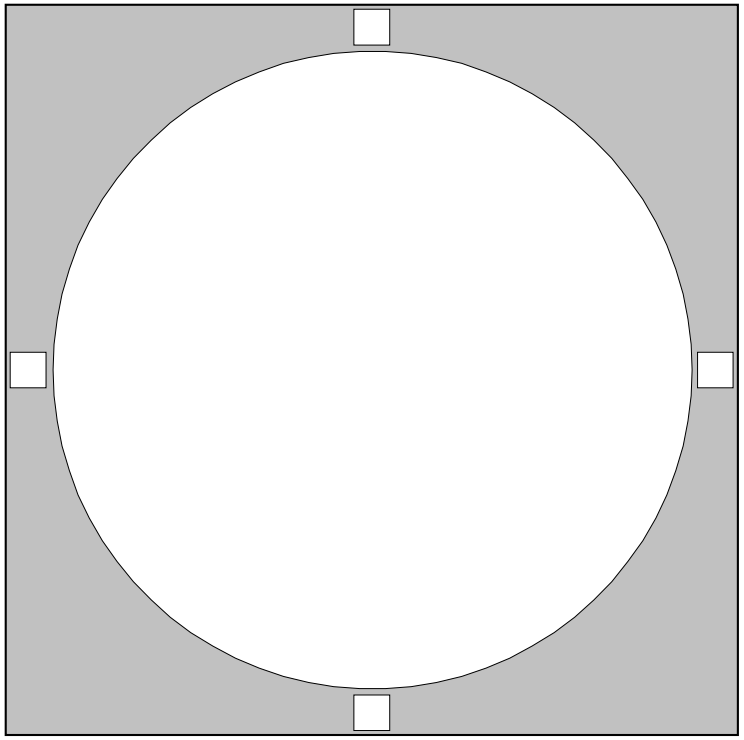
NGC Number		**4388**	
Constellation		**Virgo**	
Type		**G-SAb**	
Visual Magnitude**		**11.0**	
Size	Distance	**5.7' x 1.6'**	**110 million ly**
RA (Epoch 2000.0)		**12:25.8**	
Dec (Epoch 2000.0)		**+12:40**	
UM I	UM II	**193**	**91, A13**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**with M84 and M86 in Markarian's Chain**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

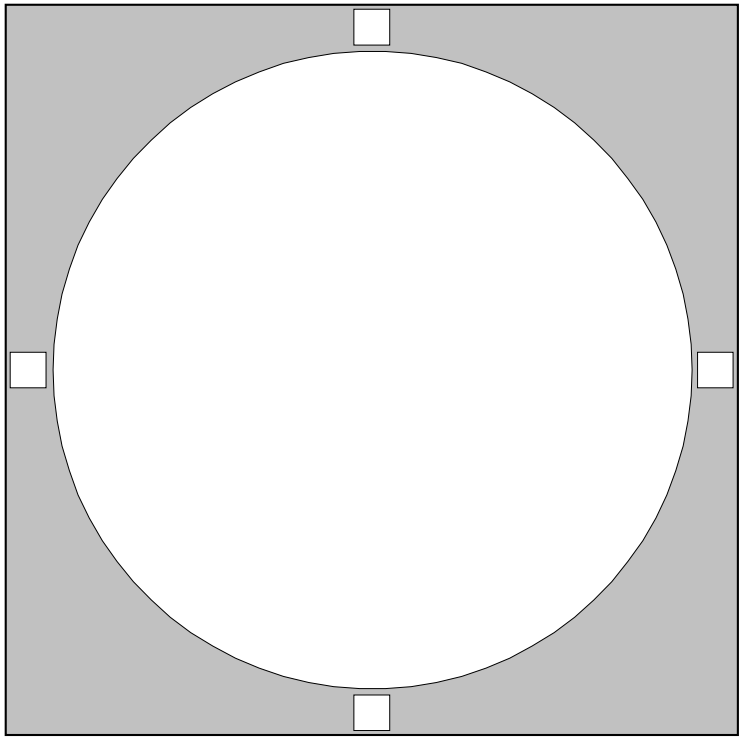
NGC Number		**4438**	
Constellation		**Virgo**	
Type		**G-SA0/a**	
Visual Magnitude**		**10.2**	
Size	Distance	**8.9' x 3.6'**	**8 million ly**
RA (Epoch 2000.0)		**12:27.8**	
Dec (Epoch 2000.0)		**+13:01**	
UM I	UM II	**193**	**91, A13**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**paired with NGC 4435 to form the "Eyes"**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**4517**	
Constellation		**Virgo**	
Type		**G-Scd**	
Visual Magnitude**		**10.4**	
Size	Distance	**9.9' x 1.4'**	**44 million ly**
RA (Epoch 2000.0)		**12:32.8**	
Dec (Epoch 2000.0)		**+00:07**	
UM I	UM II	**238, 239**	**110, 111**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**faint edge-on spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			

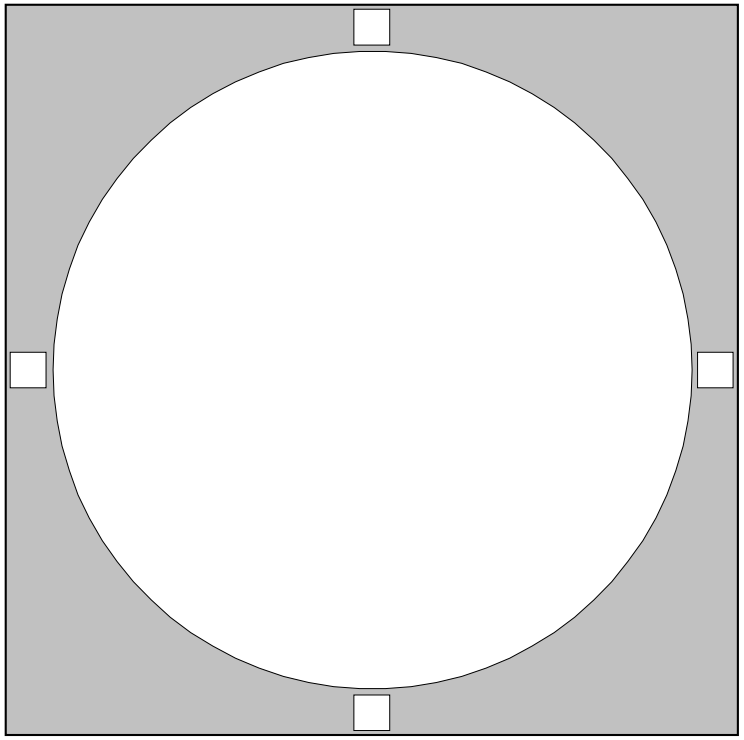


Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 80

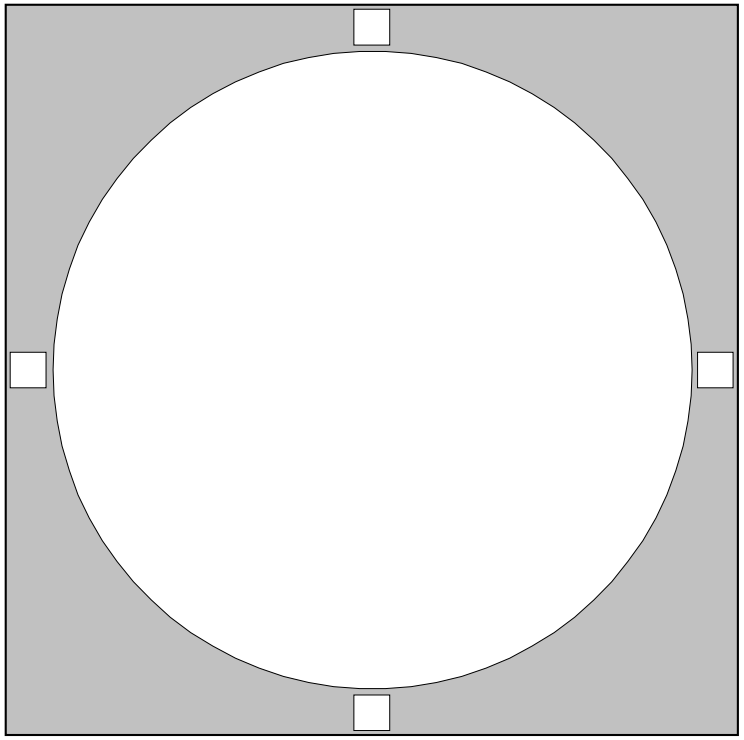
NGC Number		**4526**	
Constellation		**Virgo**	
Type		**G-SAB0**	
Visual Magnitude**		**9.7**	
Size	Distance	**7.1' x 2.9'**	**15 million ly**
RA (Epoch 2000.0)		**12:34.0**	
Dec (Epoch 2000.0)		**+07:42**	
UM I	UM II	**193, 194**	**90, 91**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**between two 7th-mag stars**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**4535**	
Constellation		**Virgo**	
Type		**G-SABc**	
Visual Magnitude**		**10.0**	
Size	Distance	**7.1' x 6.4'**	**81 million ly**
RA (Epoch 2000.0)		**12:34.3**	
Dec (Epoch 2000.0)		**+08:12**	
UM I	UM II	**193, 194**	**90, 91**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**near M49 and 3/4 deg north of NGC 4526**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



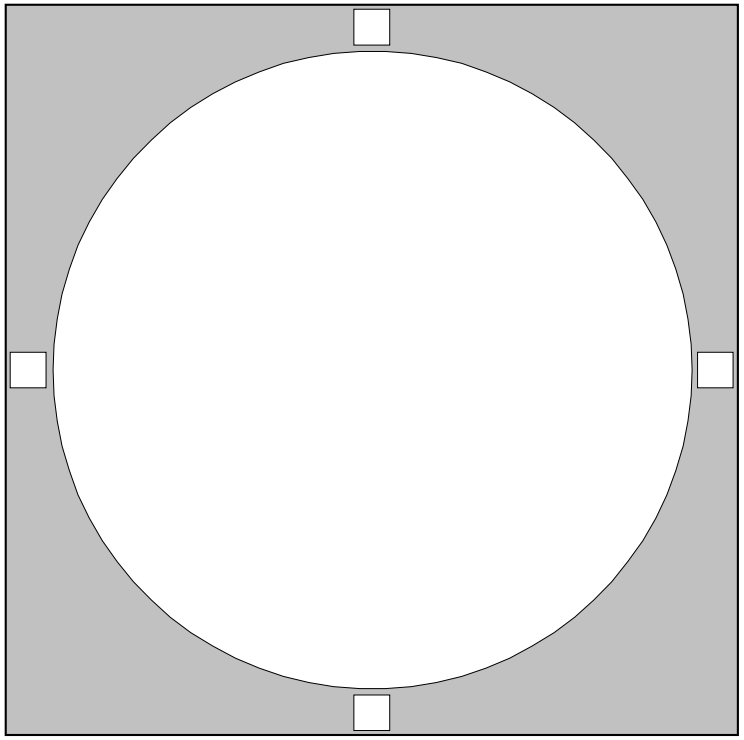
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 82

Siamese Twins

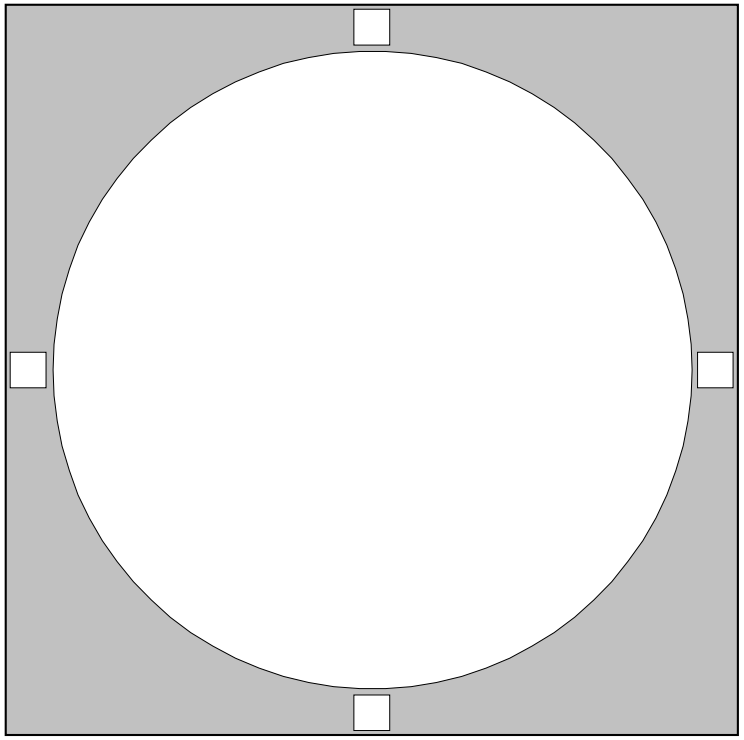
NGC Number		**4567/8**	
Constellation		**Virgo**	
Type		**G-SAbc**	
Visual Magnitude**		**~11**	
Size	Distance	**~3.0' x ~2.0' each**	**92/94 million ly**
RA (Epoch 2000.0)		**12:36.5**	
Dec (Epoch 2000.0)		**+11:15**	
UM I	UM II	**194**	**90, 91, A13**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**Siamese Twins "interacting galaxies"**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

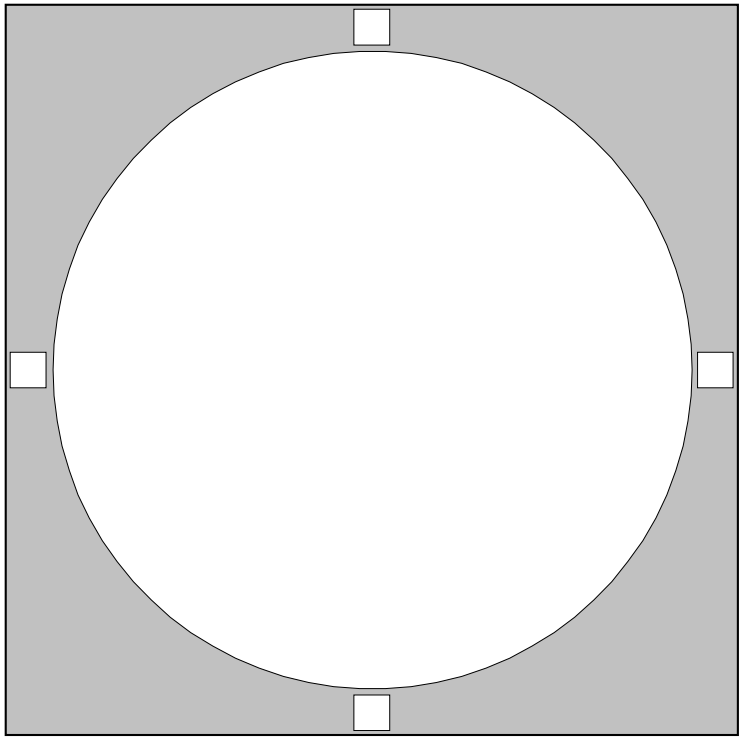
NGC Number		**4699**	
Constellation		**Virgo**	
Type		**G-Sab**	
Visual Magnitude**		**9.5**	
Size	Distance	**4.4' x 3.2'**	**59 million ly**
RA (Epoch 2000.0)		**12:49.0**	
Dec (Epoch 2000.0)		**-08:40**	
UM I	UM II	**284**	**130**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**small & bright; look for NGC 4697 3 deg north**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

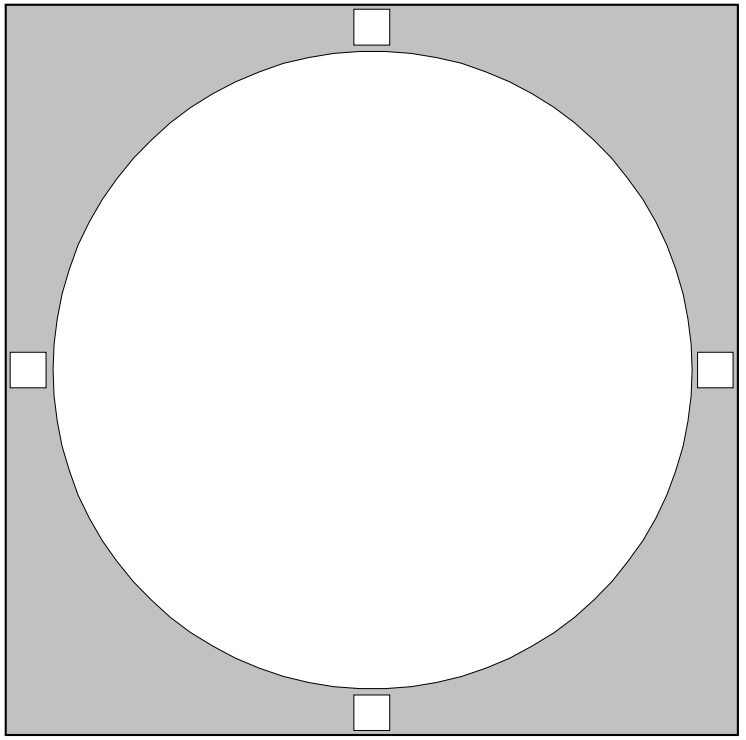
NGC Number		**4762**	
Constellation		**Virgo**	
Type		**G-SB0?**	
Visual Magnitude**		**10.3**	
Size	Distance	**9.1' x 2.2'**	**38 million ly**
RA (Epoch 2000.0)		**12:52.9**	
Dec (Epoch 2000.0)		**+11:14**	
UM I	UM II	**194**	**90**
Sky Atlas 2000		**13, 14**	
Season		**Spring**	
Remarks***		**flattest galaxy known; 4754 in same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

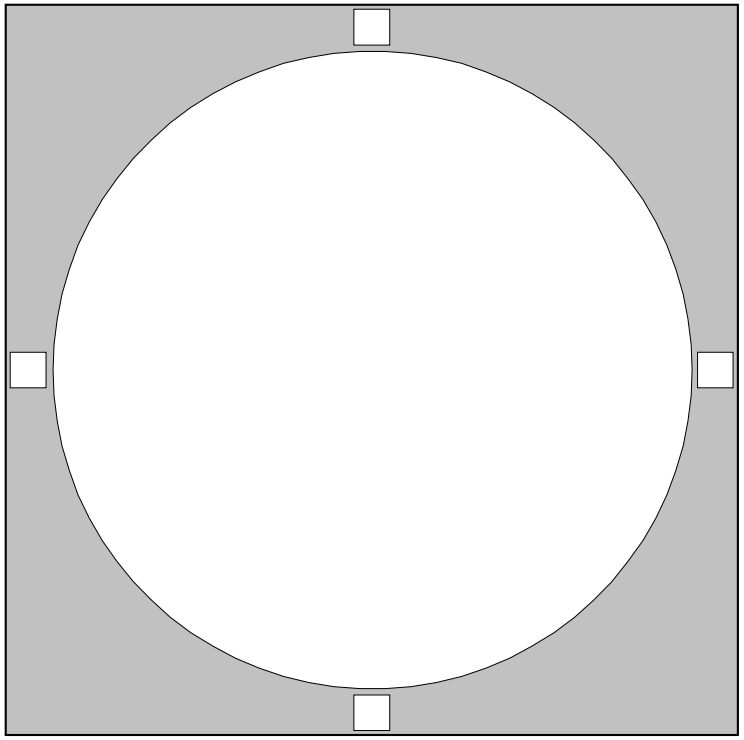
NGC Number		**5746**	
Constellation		**Virgo**	
Type		**G-SA?B**	
Visual Magnitude**		**10.3**	
Size	Distance	**6.8' x 1.0'**	**78 million ly**
RA (Epoch 2000.0)		**14:44.9**	
Dec (Epoch 2000.0)		**+01:57**	
UM I	UM II	**243**	**109**
Sky Atlas 2000		**14**	
Season		**Spring**	
Remarks***		**fine edge-on near 109 Virginis**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

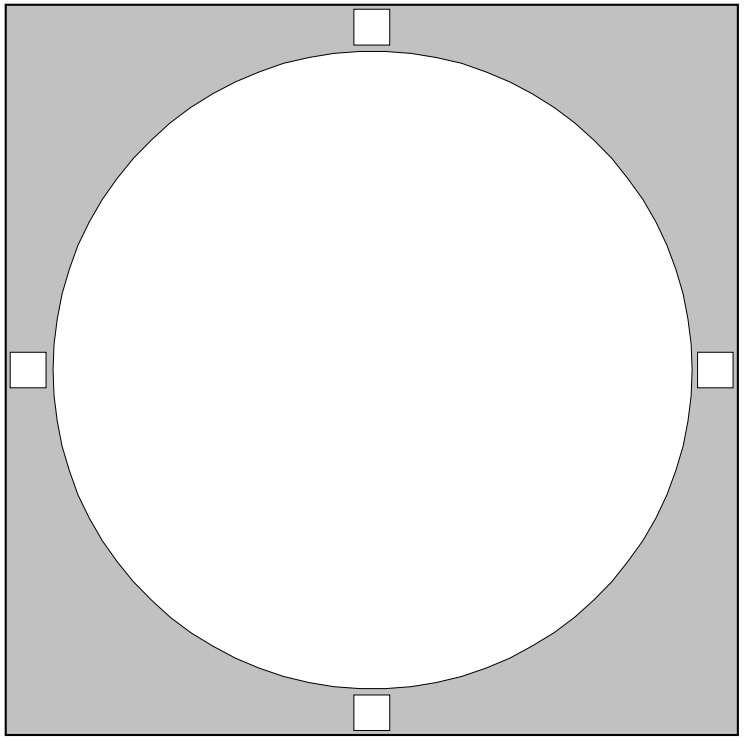
NGC Number		**5466**	
Constellation		**Bootes**	
Type		**GC**	
Visual Magnitude**		**9.0**	
Size	Distance	**11.0'**	**47 million ly**
RA (Epoch 2000.0)		**14:05.5**	
Dec (Epoch 2000.0)		**+28:32**	
UM I	UM II	**110, 151, 152**	**70**
Sky Atlas 2000		**7**	
Season		**Spring**	
Remarks***		**loose class XII; like rich open cluster.; faint**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

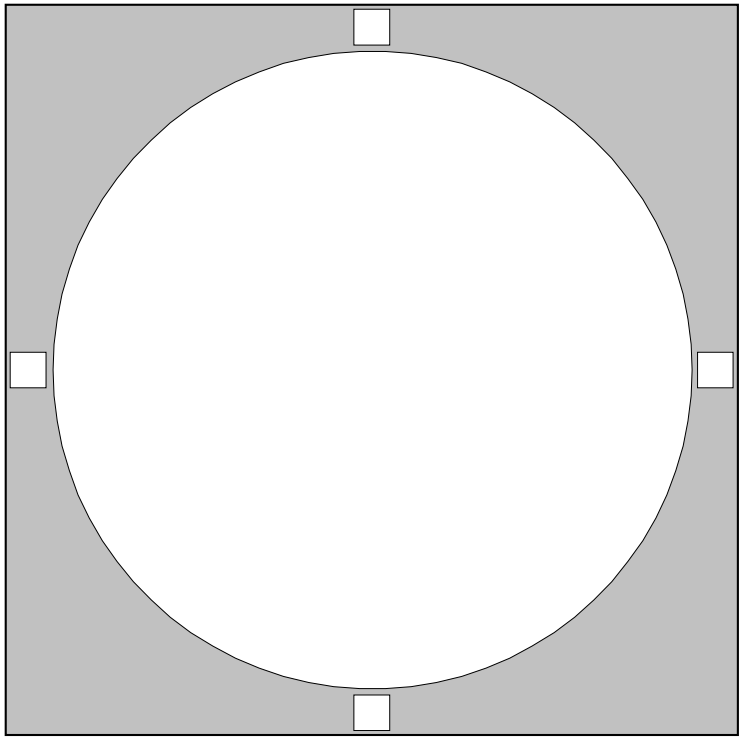
NGC Number		**5907**	
Constellation		**Draco**	
Type		**G-SAc**	
Visual Magnitude**		**10.3**	
Size	Distance	**12.0' x 2.0'**	**34 million ly**
RA (Epoch 2000.0)		**15:15.9**	
Dec (Epoch 2000.0)		**+56:19**	
UM I	UM II	**50**	**22**
Sky Atlas 2000		**2**	
Season		**Spring**	
Remarks***		**!! fine edge-on with dust lane; near 5866**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**6503**	
Constellation		**Draco**	
Type		**G-SAcd**	
Visual Magnitude**		**10.2**	
Size	Distance	**7.3' x 2.4'**	**14 million ly**
RA (Epoch 2000.0)		**17:49.4**	
Dec (Epoch 2000.0)		**+70:09**	
UM I	UM II	**30**	**11**
Sky Atlas 2000		**2, 3**	
Season		**Spring**	
Remarks***		**bright elongated spiral**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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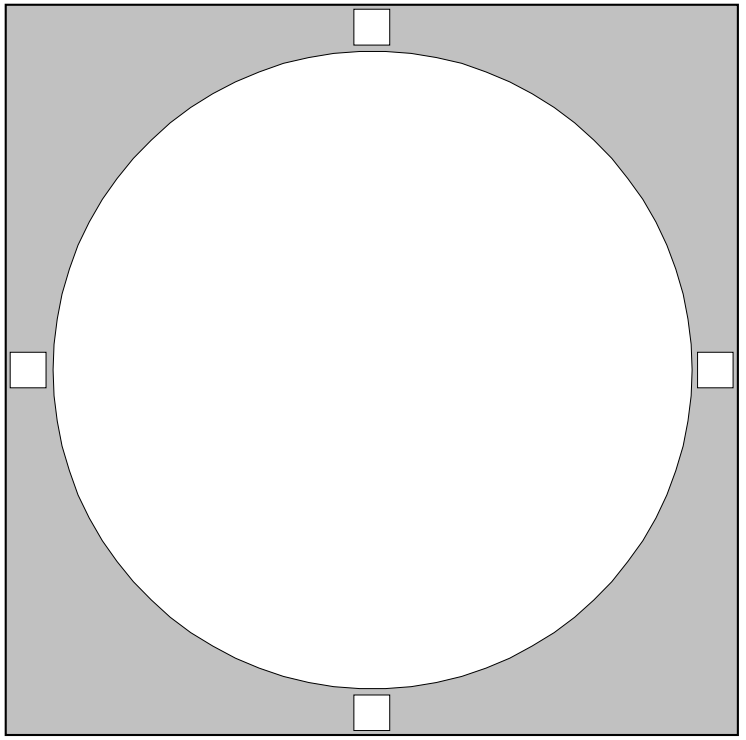
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 89

Cat's Eye Nebula

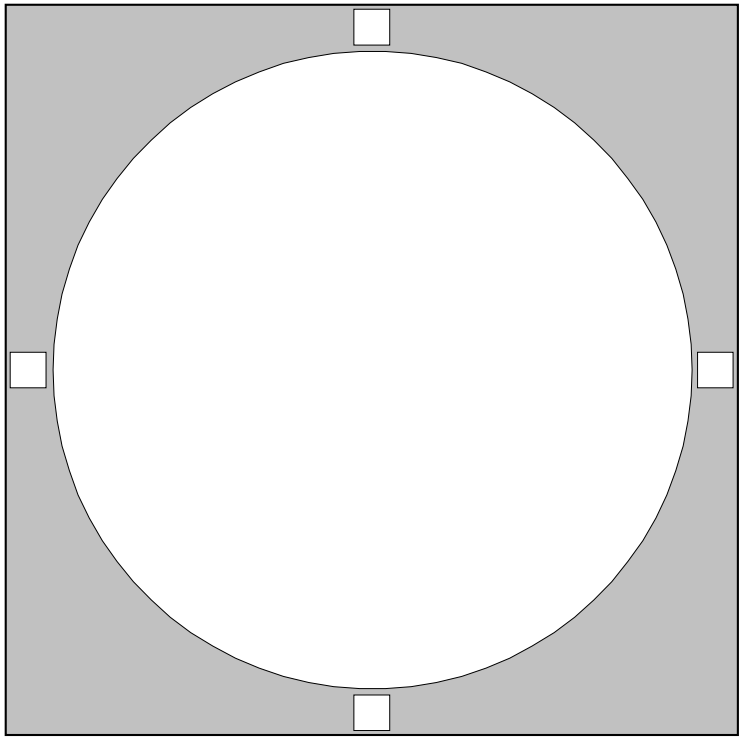
NGC Number		**6543**	
Constellation		**Draco**	
Type		**PN**	
Visual Magnitude**		**8.1**	
Size	Distance	**>18"**	**3,600 ly**
RA (Epoch 2000.0)		**17:58.6**	
Dec (Epoch 2000.0)		**+66:38**	
UM I	UM II	**30**	**10, 11**
Sky Atlas 2000		**3**	
Season		**Spring**	
Remarks***		**Cat's Eye Nebula; with 11 mag central star**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**6210**	
Constellation		**Hercules**	
Type		**PN**	
Visual Magnitude**		**8.8**	
Size	Distance	**>14"**	**3,600 ly**
RA (Epoch 2000.0)		**16:44.5**	
Dec (Epoch 2000.0)		**+23:49**	
UM I	UM II	**156, 157**	**68**
Sky Atlas 2000		**8**	
Season		**Summer**	
Remarks***		**blue star-like planetary**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

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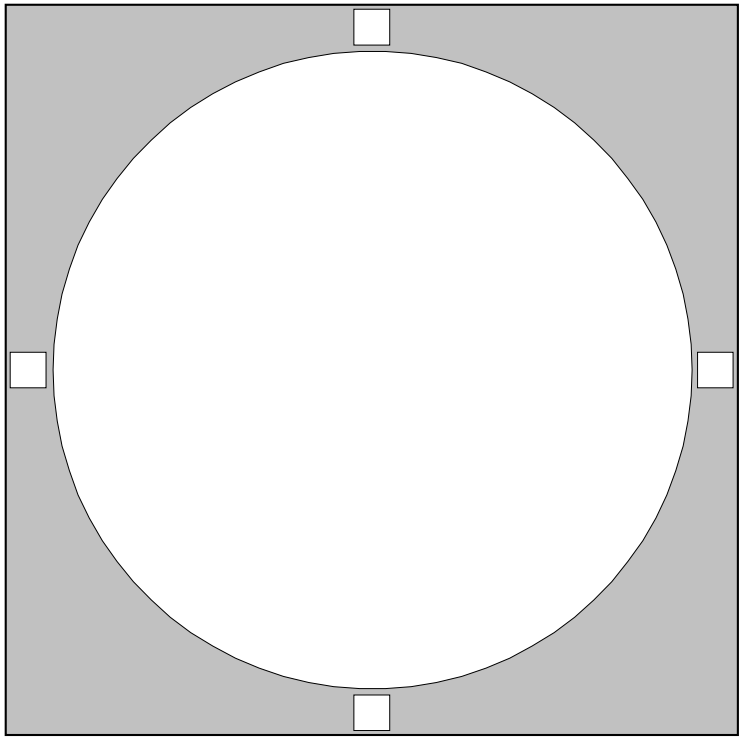
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 91

Little Ghost

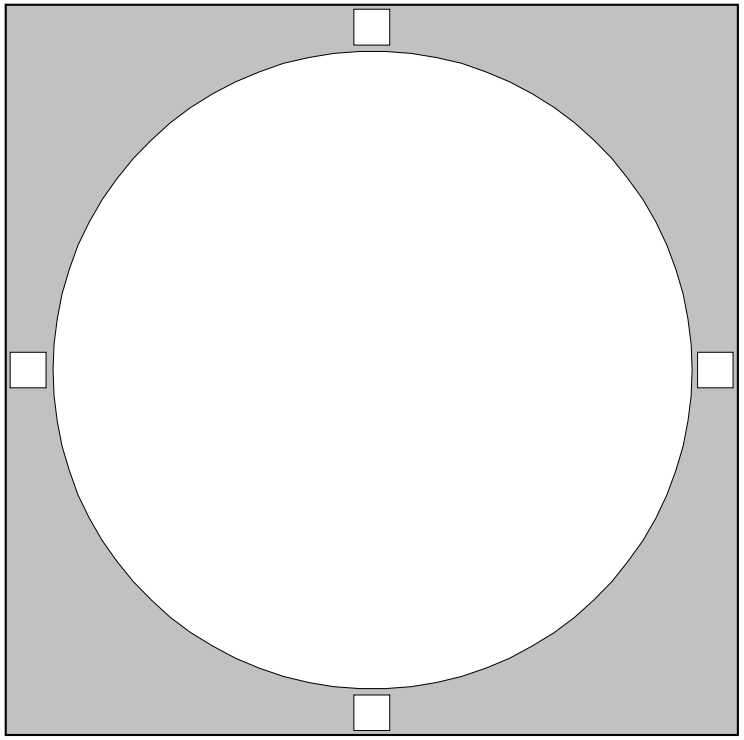
NGC Number		**6369**	
Constellation		**Ophiuchus**	
Type		**PN**	
Visual Magnitude**		**11.4**	
Size	Distance	**>30"**	**3,900 ly**
RA (Epoch 2000.0)		**17:29.3**	
Dec (Epoch 2000.0)		**-23:46**	
UM I	UM II	**338**	**146**
Sky Atlas 2000		**22**	
Season		**Summer**	
Remarks***		**"Little Ghost"; look for NGC 6309 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

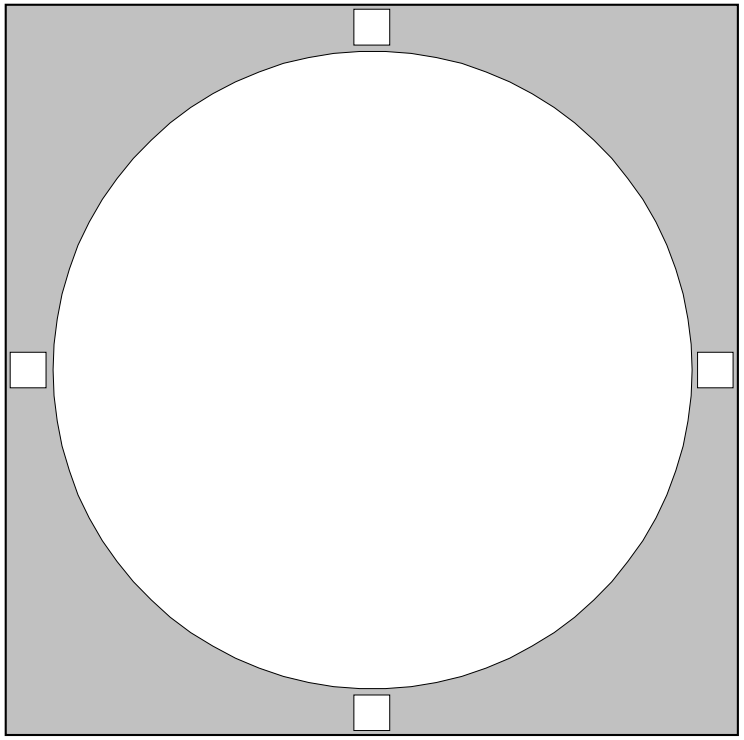
NGC Number		**6572**	
Constellation		**Ophiuchus**	
Type		**PN**	
Visual Magnitude**		**8.1**	
Size	Distance	**8"**	**2,000 ly**
RA (Epoch 2000.0)		**18:12.1**	
Dec (Epoch 2000.0)		**+06:51**	
UM I	UM II	**204**	**86**
Sky Atlas 2000		**15, 16**	
Season		**Summer**	
Remarks***		**tiny bright blue oval**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

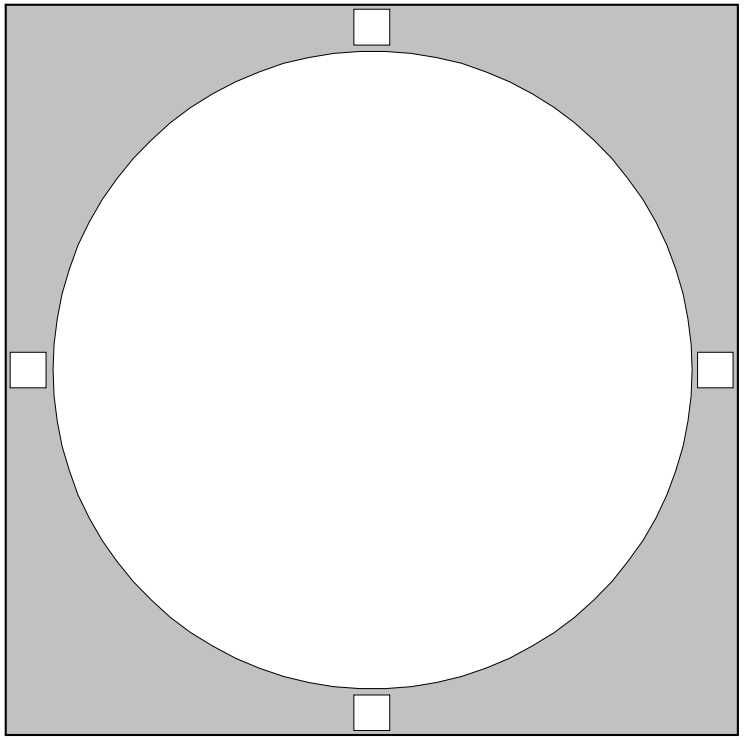
NGC Number		**6633**	
Constellation		**Ophiuchus**	
Type		**OC**	
Visual Magnitude**		**4.6**	
Size	Distance	**27.0'**	**1,000 ly**
RA (Epoch 2000.0)		**18:27.7**	
Dec (Epoch 2000.0)		**+06:34**	
UM I	UM II	**204, 205**	**86**
Sky Atlas 2000		**15, 16**	
Season		**Summer**	
Remarks***		**sparse wide field cluster; IC 4756 nearby**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

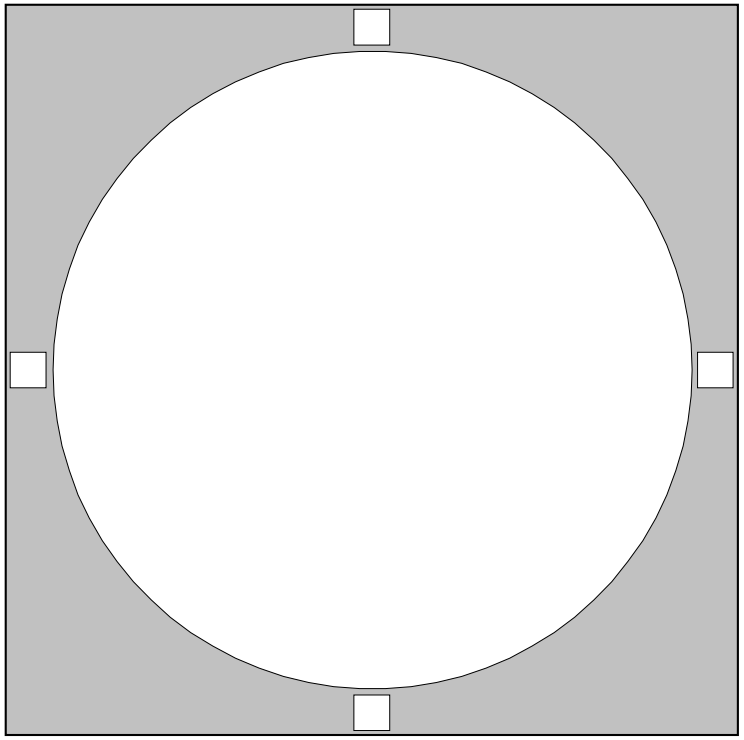
NGC Number		**6712**	
Constellation		**Scutum**	
Type		**GC**	
Visual Magnitude**		**8.2**	
Size	Distance	**7.2'**	**25,000 ly**
RA (Epoch 2000.0)		**18:53.1**	
Dec (Epoch 2000.0)		**-08:42**	
UM I	UM II	**295, 296**	**125, A14**
Sky Atlas 2000		**15, 16**	
Season		**Summer**	
Remarks***		**small globular; look for IC 1295 in field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

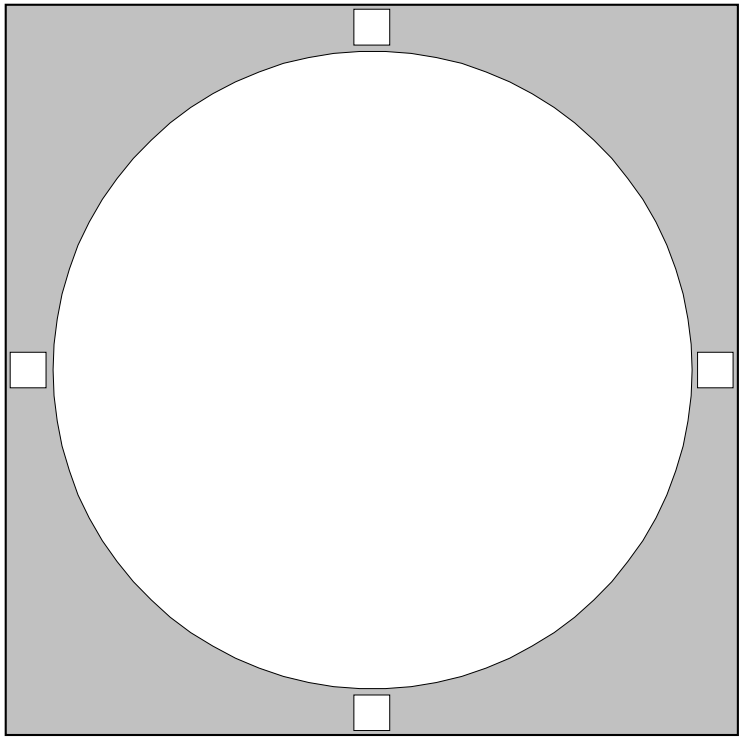
NGC Number		**6781**	
Constellation		**Aquila**	
Type		**PN**	
Visual Magnitude**		**11.4**	
Size	Distance	**>1' 49"**	**2,600 ly**
RA (Epoch 2000.0)		**19:18.4**	
Dec (Epoch 2000.0)		**+06:33**	
UM I	UM II	**206**	**85**
Sky Atlas 2000		**16**	
Season		**Summer**	
Remarks***		**pale version of the Owl Nebula M97**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**6819**	
Constellation		**Cygnus**	
Type		**OC**	
Visual Magnitude**		**7.3**	
Size	Distance	**9.5'**	**7,200 ly**
RA (Epoch 2000.0)		**19:41.3**	
Dec (Epoch 2000.0)		**+40:11**	
UM I	UM II	**84**	**33, 48**
Sky Atlas 2000		**8, 9**	
Season		**Summer**	
Remarks***		**150*; faint but rich cluster in Milky Way**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



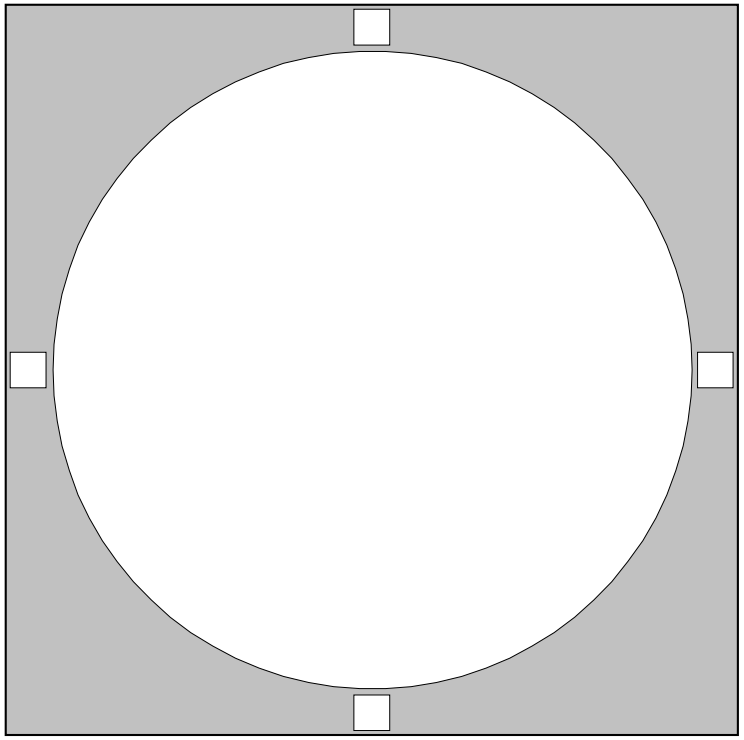
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 97

Blinking Planetary Nebula

NGC Number		**6826**	
Constellation		**Cygnus**	
Type		**PN**	
Visual Magnitude**		**8.8**	
Size	Distance	**>25"**	**3,300 ly**
RA (Epoch 2000.0)		**19:44.8**	
Dec (Epoch 2000.0)		**+50:31**	
UM I	UM II	**55, 84**	**33**
Sky Atlas 2000		**3, 8, 9**	
Season		**Summer**	
Remarks***		**!! Blinking Planetary; 10.6 magnitude central star**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



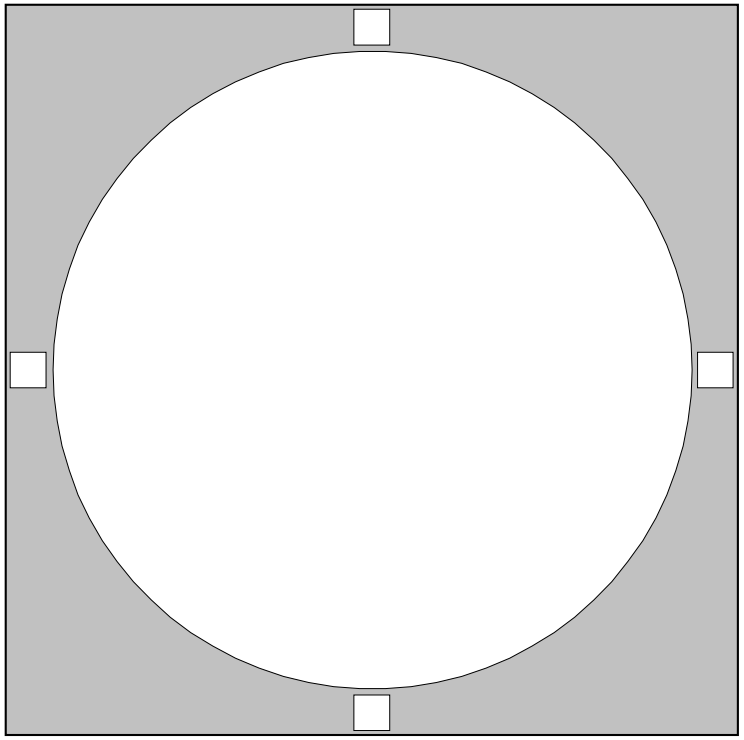
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 98

Crescent Nebula

NGC Number		**6888**	
Constellation		**Cygnus**	
Type		**EN**	
Visual Magnitude**		**na**	
Size	Distance	**18.0' x 13.0'**	**n/a**
RASC (Epoch 2000.0)		**20:12.0**	
Dec (Epoch 2000.0)		**+38:21**	
UM I	UM II	**84, 119**	**48, A2**
Sky Atlas 2000		**8, 9**	
Season		**Summer**	
Remarks***		**Crescent Nebula; faint; use nebular filter**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



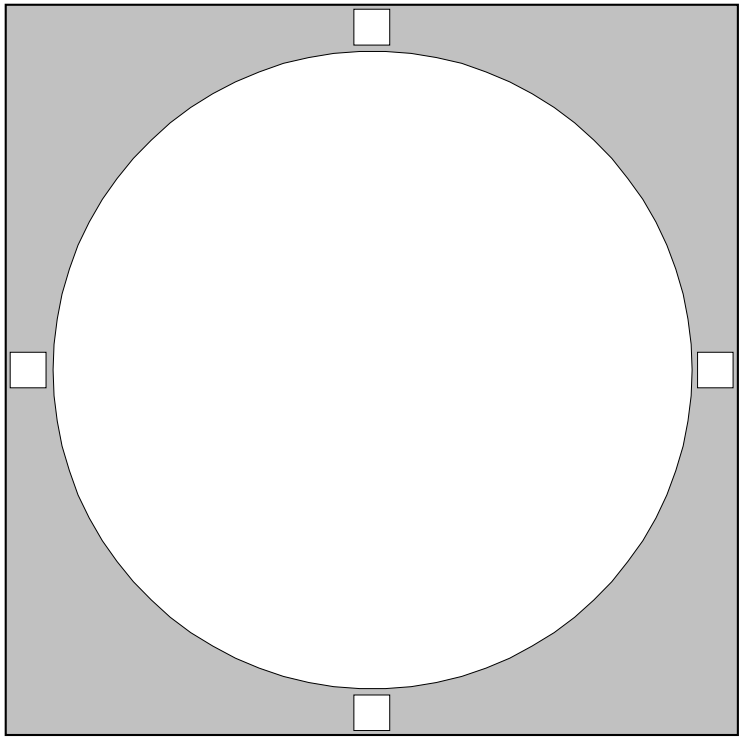
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 99a

Veil Nebula

NGC Number		**6960a**	
Constellation		**Cygnus**	
Type		**SNR**	
Visual Magnitude**		**na**	
Size	Distance	**70.0' x 6.0'**	**1,300 ly**
RA (Epoch 2000.0)		**20:45.7**	
Dec (Epoch 2000.0)		**+30:43**	
UM I	UM II	**120**	**47**
Sky Atlas 2000		**9**	
Season		**Summer**	
Remarks***		**!! Veil Nebula: west half; use filter !**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



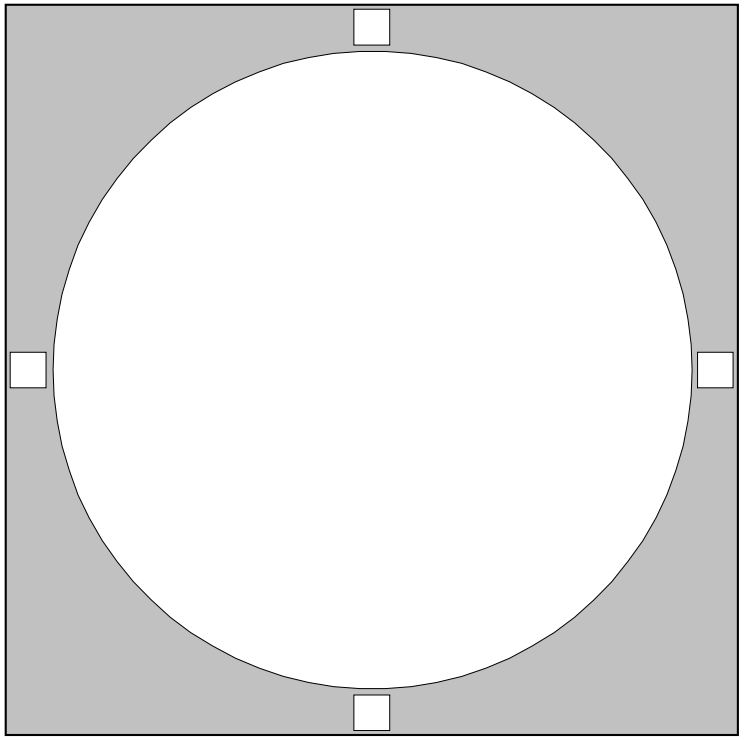
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 99b

Veil Nebula

NGC Number		**6992/5b**	
Constellation		**Cygnus**	
Type		**SNR**	
Visual Magnitude**		**na**	
Size	Distance	**72.0' x 8.0'**	**1,300 ly**
RA (Epoch 2000.0)		**20:56.4**	
Dec (Epoch 2000.0)		**+31:43**	
UM I	UM II	**120, 121**	**47**
Sky Atlas 2000		**9**	
Season		**Summer**	
Remarks***		**!! Veil Nebula: east half; use filter !**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



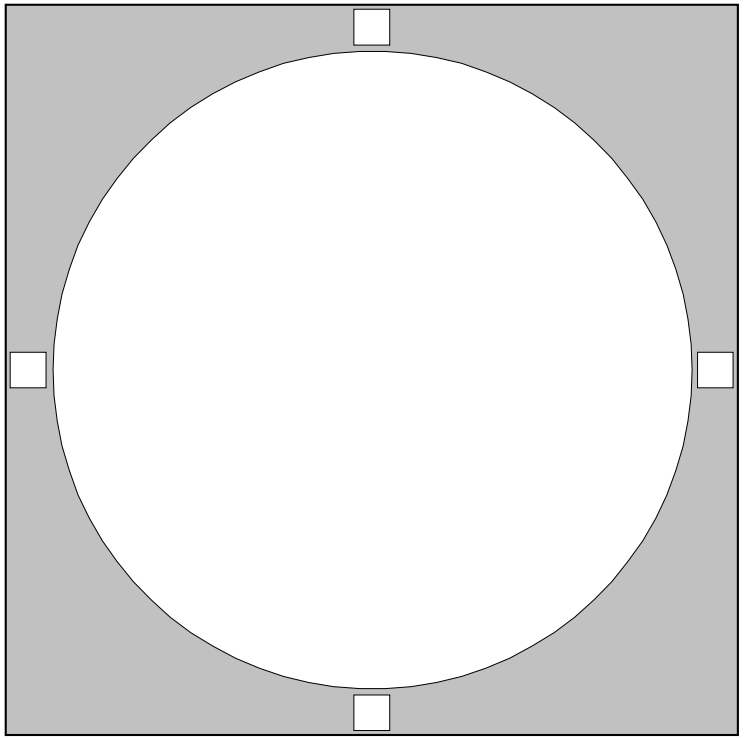
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 100

North America Nebula

NGC Number		**7000**	
Constellation		**Cygnus**	
Type		**EN**	
Visual Magnitude**		**na**	
Size	Distance	**120.0' x 100.0'**	**1,600 ly**
RA (Epoch 2000.0)		**20:58.8**	
Dec (Epoch 2000.0)		**+44:20**	
UM I	UM II	**85**	**32, A1**
Sky Atlas 2000		**9**	
Season		**Summer**	
Remarks***		**!! North America Nebula; use filter & low power**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			

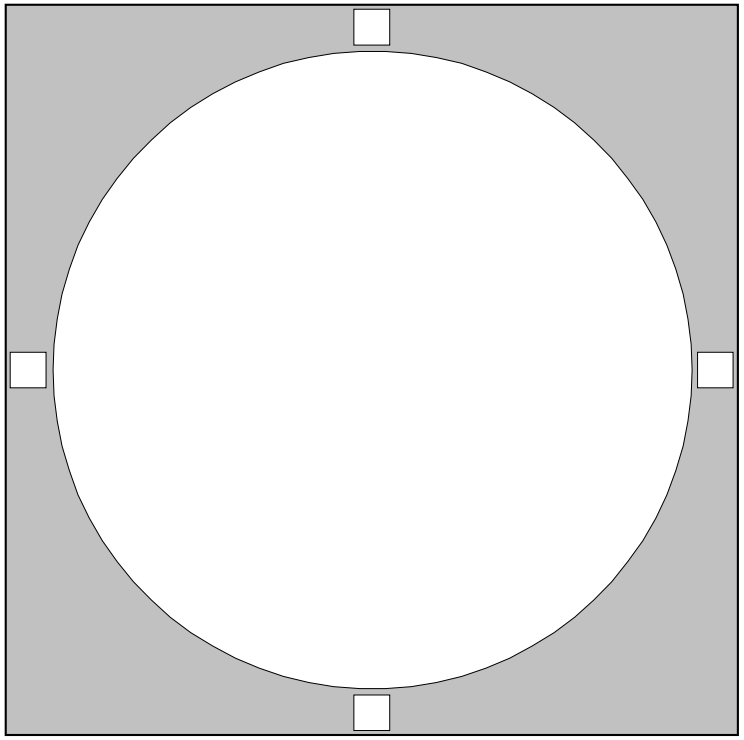


Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 101

NGC Number		**7027**	
Constellation		**Cygnus**	
Type		**PN**	
Visual Magnitude**		**8.5**	
Size	Distance	**15"**	**3,600 ly**
RA (Epoch 2000.0)		**21:07.1**	
Dec (Epoch 2000.0)		**+42:14**	
UM I	UM II	**85**	**32, A1**
Sky Atlas 2000		**9**	
Season		**Summer**	
Remarks***		**unusual protoplanetary nebula**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			

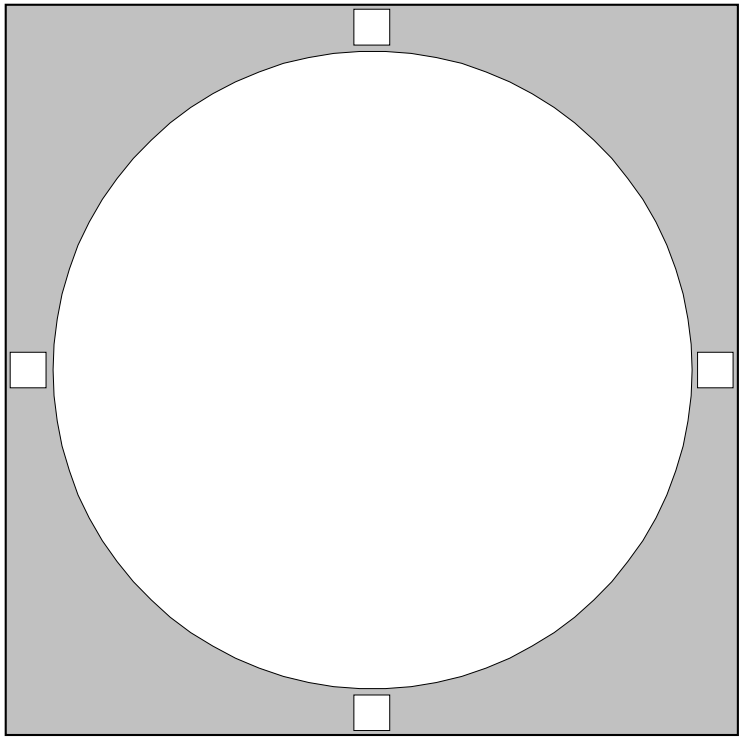


Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 102

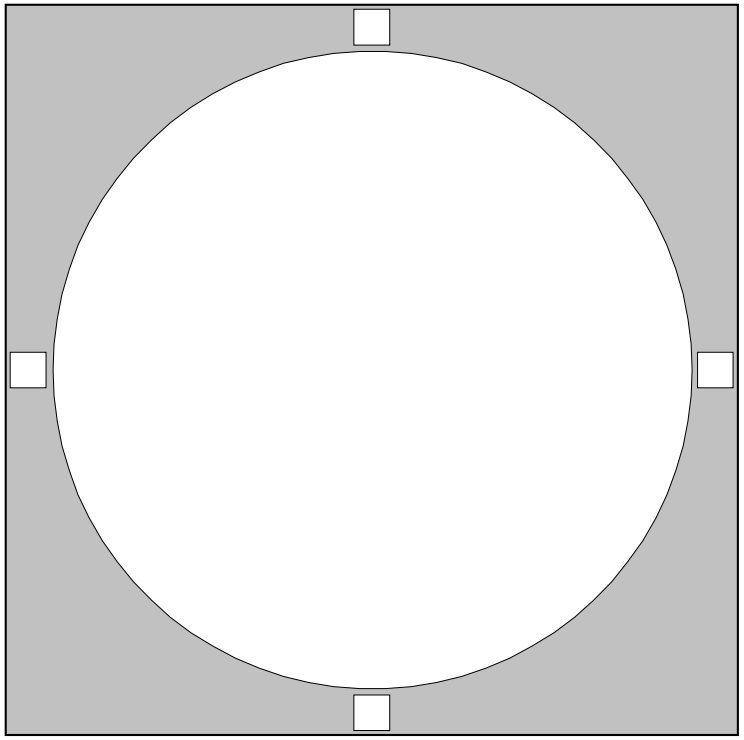
NGC Number		**6445**	
Constellation		**Sagittarius**	
Type		**PN**	
Visual Magnitude**		**11.2**	
Size	Distance	**>34"**	**4,600 ly**
RA (Epoch 2000.0)		**17:49.2**	
Dec (Epoch 2000.0)		**-20:01**	
UM I	UM II	**338, 339**	**146**
Sky Atlas 2000		**15, 22**	
Season		**Summer**	
Remarks***		**small, bright and annular; near M23**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**6520**	
Constellation		**Sagittarius**	
Type		**OC**	
Visual Magnitude**		**7.6p**	
Size	Distance	**6.0'**	**5,400 ly**
RA (Epoch 2000.0)		**18:03.4**	
Dec (Epoch 2000.0)		**-27:54**	
UM I	UM II	**339, 377**	**145, 146**
Sky Atlas 2000		**22**	
Season		**Summer**	
Remarks***		**60*; small; dark nebula. B86 in same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



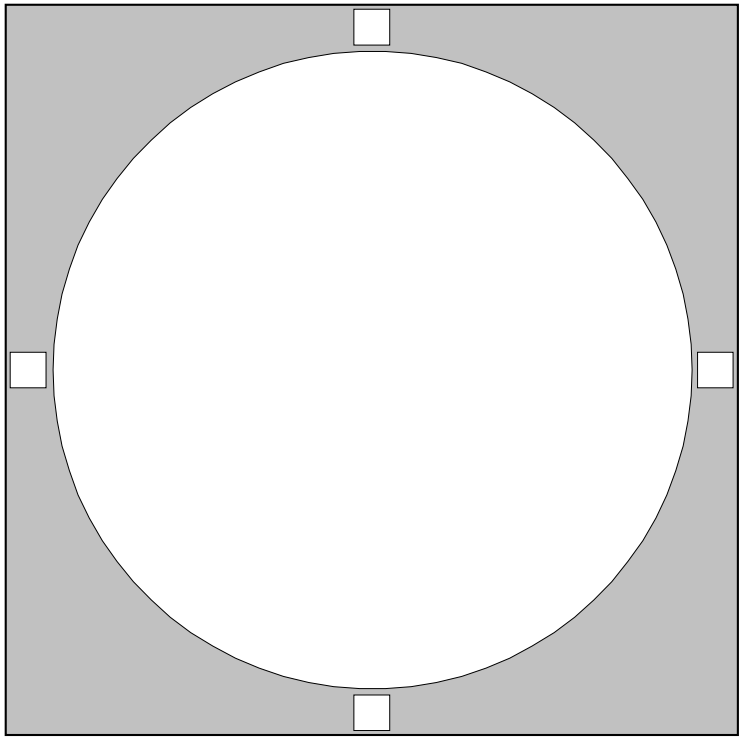
Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 104

Little Gem Nebula

NGC Number		**6818**	
Constellation		**Sagittarius**	
Type		**PN**	
Visual Magnitude**		**9.3**	
Size	Distance	**<17"**	**5,000 ly**
RA (Epoch 2000.0)		**19:44.0**	
Dec (Epoch 2000.0)		**-14:09**	
UM I	UM II	**297**	**125**
Sky Atlas 2000		**16, 22**	
Season		**Summer**	
Remarks***		**"Little Gem"; annular; NGC 6822 0.75 degrees south**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			

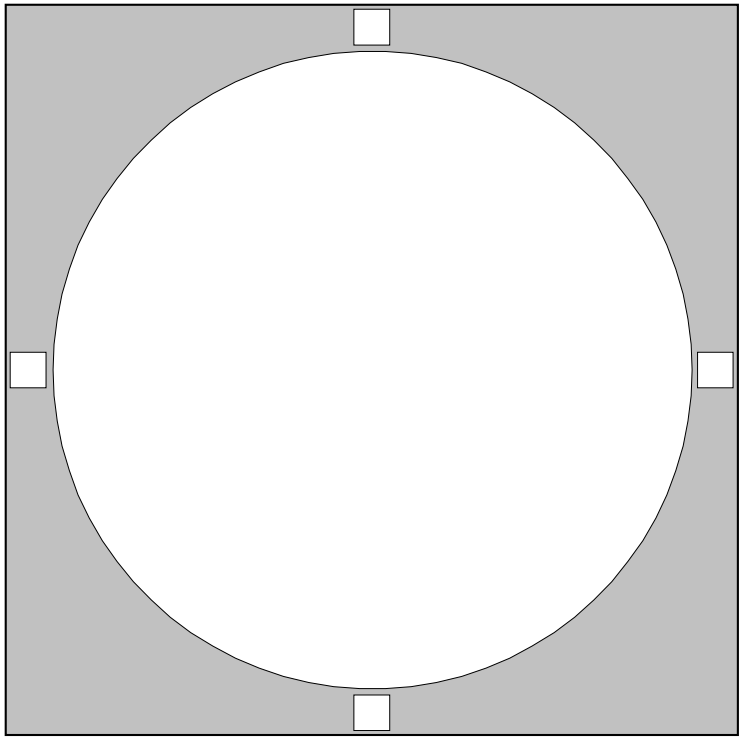


Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 105

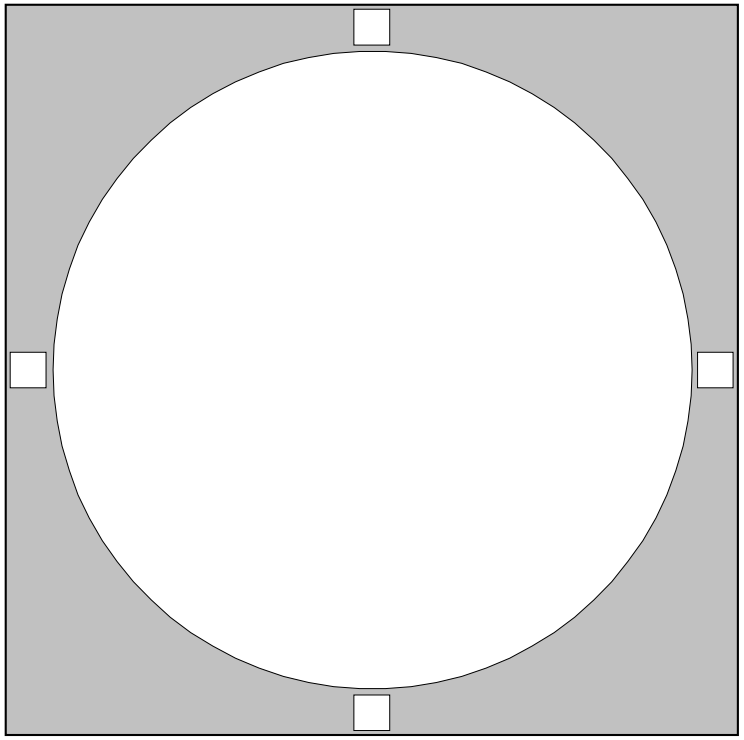
NGC Number		**6802**	
Constellation		**Vulpecula**	
Type		**OC**	
Visual Magnitude**		**8.8**	
Size	Distance	**3.2'**	**3,200 ly**
RA (Epoch 2000.0)		**19:30.6**	
Dec (Epoch 2000.0)		**+20:16**	
UM I	UM II	**161, 162**	**66**
Sky Atlas 2000		**8, 16**	
Season		**Summer**	
Remarks***		**50*; at east end of Brocchi's cluster Cr 399**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

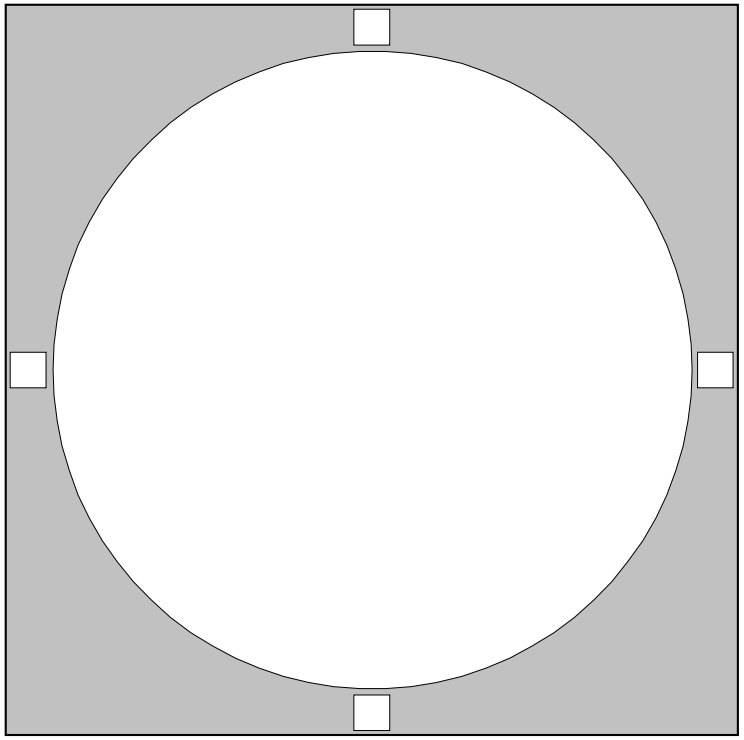
NGC Number		**6940**	
Constellation		**Vulpecula**	
Type		**OC**	
Visual Magnitude**		**6.3**	
Size	Distance	**31'**	**2,600 ly**
RA (Epoch 2000.0)		**20:34.6**	
Dec (Epoch 2000.0)		**+28:18**	
UM I	UM II	**120, 163, 164**	**66**
Sky Atlas 2000		**9**	
Season		**Summer**	
Remarks***		**60*; fairly rich cluster in Milky Way**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

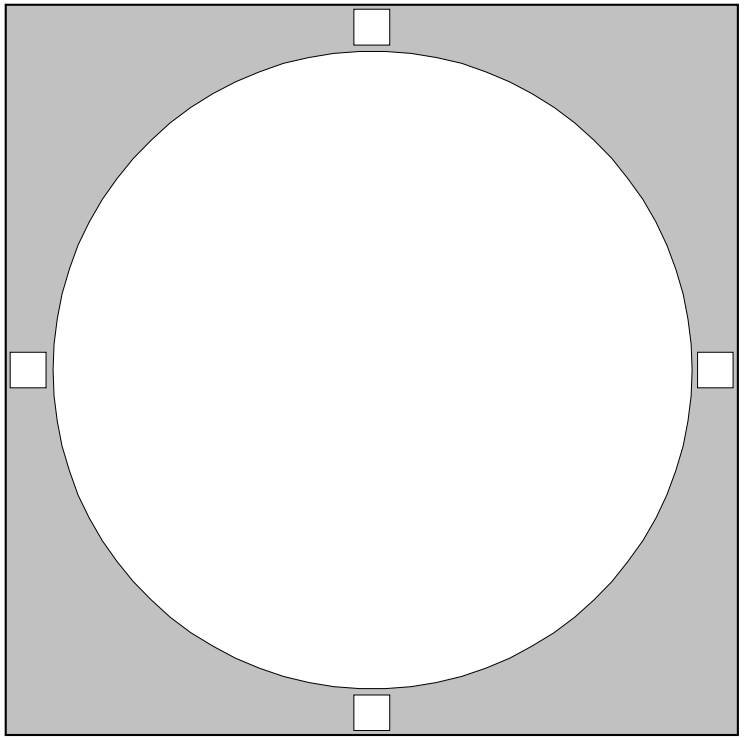
NGC Number		**6939**	
Constellation		**Cepheus**	
Type		**OC**	
Visual Magnitude**		**7.8**	
Size	Distance	**7.0'**	**4,000 ly**
RA (Epoch 2000.0)		**20:31.4**	
Dec (Epoch 2000.0)		**+60:38**	
UM I	UM II	**32, 55, 56**	**20**
Sky Atlas 2000		**3**	
Season		**Summer**	
Remarks***		**80*; very rich; NGC 6946 in same field**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

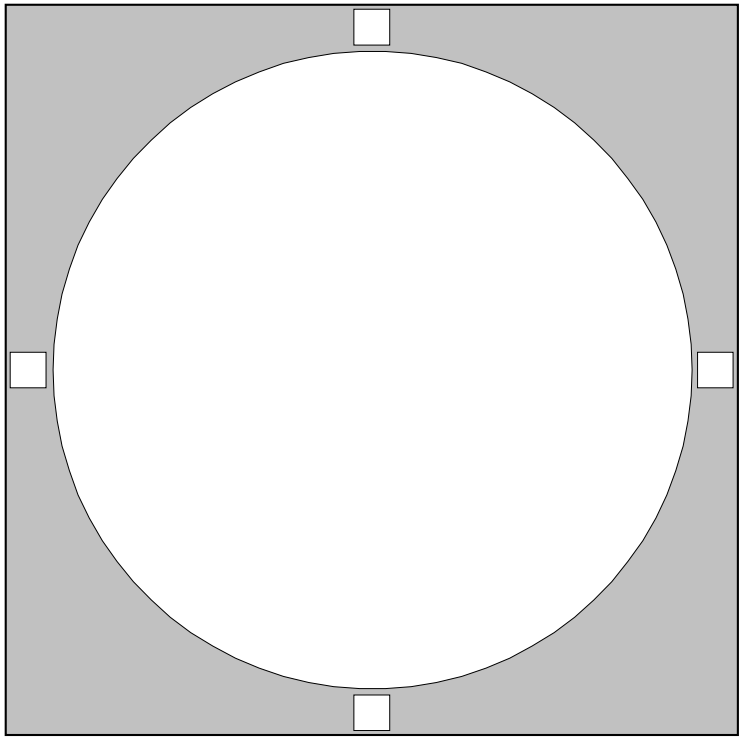
NGC Number		**6946**	
Constellation		**Cepheus**	
Type		**G-SABcd**	
Visual Magnitude**		**8.8**	
Size	Distance	**13.0' x 13.0'**	**15 million ly**
RA (Epoch 2000.0)		**20:34.8**	
Dec (Epoch 2000.0)		**+60:09**	
UM I	UM II	**32, 56**	**20**
Sky Atlas 2000		**3**	
Season		**Summer**	
Remarks***		**faint, diffuse face-on spiral near 6939**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

NGC Number		**7129**	
Constellation		**Cepheus**	
Type		**RN**	
Visual Magnitude**		**11.5p**	
Size	Distance	**7.0' x 7.0'**	**n/a**
RA (Epoch 2000.0)		**21:42.8**	
Dec (Epoch 2000.0)		**+66:06**	
UM I	UM II	**33**	**9**
Sky Atlas 2000		**3**	
Season		**Summer**	
Remarks***		**faint reflection neb. around sparse cluster**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			

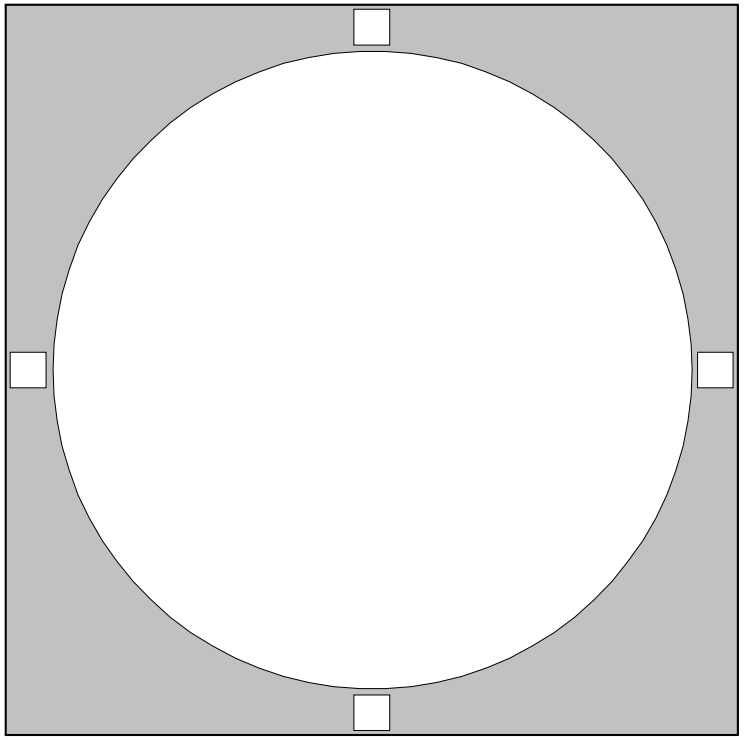


Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

RASC Finest NGC - 110

NGC Number		**40**	
Constellation		**Cepheus**	
Type		**PN**	
Visual Magnitude**		**12.4**	
Size	Distance	**>37"**	**2,900 ly**
RA (Epoch 2000.0)		**00:13.0**	
Dec (Epoch 2000.0)		**+72:32**	
UM I	UM II	**3, 15**	**8**
Sky Atlas 2000		**1, 3**	
Season		**Summer**	
Remarks***		**unusual red planetary; 11.6 magnitude central star**	
Date	Time		
Seeing		1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope			
Eyepiece	Magnification		
Observing Location			



Notes

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca