

The Caldwell Observer's Log *R0.3b*

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The Caldwell Observer's Log (TCOL) contains everything you need to find and view the Caldwell objects through your telescope. You can track your viewing notes, sort on several different fields, and print field notes for star parties.

This log is "giveware." If you like it, please share it with someone else. Schools, students & NPO's are encouraged to distribute it widely. If you have comments or questions, e-mail me by clicking the following link: [david@davidpaulgreen.com](mailto:david@ davidpaulgreen.com)

Enter Notes

The "Main Screen"

Enter viewing notes and view the info for each object.

[Start here!](#)

Atlas, Sort by Caldwell

List star atlas info for **all** objects, sorted by Caldwell #.

Notes - Sort by Caldwell

List viewing notes for **all** objects, sorted by Caldwell #.

Sort by Season

List all objects, sorted by the season they're best viewed.

Notes - Sort by Constellation

List all objects, sorted by the nearest constellation.

Note Views

The views at right are different reports for the Notes view. They are useful after you've had a few observing sessions and want a quick way to look up what you've seen or haven't seen. These buttons don't do anything in the PDF version.

Notes - Seen, Sort by

List viewing notes for objects you've marked as seen only, sorted by Caldwell #.

Notes - Sort by Seen/Unseen

List viewing notes for **all** objects by constellation, with unseen objects first.

Notes - Unseen, Sort by

List viewing notes for objects marked as unseen, sorted by Caldwell #.

Notes - Unseen by Constell.

List viewing notes for objects not marked as seen, sorted by constellation.

The Astronomical League

The Astronomical League, sponsor of this database, is composed of over two hundred and forty local amateur astronomical societies from all across the United States. These organizations, along with Members-at-Large, Patrons, and Supporting members form one of the largest amateur astronomical organizations in the world. Click on the button to the left to visit their Web site.

Web sites to Visit

Click on a link button to open your Internet browser to that site.

davidpaulgreen.com

This is probably the site from which you downloaded TCOL. If you didn't, or if you just want to find out what is new, click here.

amazon.com

If you are buying books about astronomy, please support further development of this database by clicking here to buy them.

Credits & Copyrights

What is a Caldwell Object?

Help!

The Caldwell Observer's Log *R0.1b*

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What is the Caldwell Catalog?

The Caldwell Catalog was created recently by Sir Patrick Caldwell-Moore to expose amateur astronomers to beautiful objects that were omitted from the Messier or NGC catalogs.

Generally, they are not stars or planets, but galaxies, clusters and nebulae.

Unlike the Messier catalog, which contains only objects in the northern sky, the Caldwell catalog includes objects in the south, requiring some travel in order to see them all!

Credits & Copyrights

Thanks to Sue Rose, Sir Patrick Caldwell-Moore, and Sierra Software for their help in creating this database.

This database was created with support from the Astronomical League, and the Amateur Observer's Society of New York.

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Caldwell# 001

Name/Designation C-1
NGC # 188

Seen?
Date

Type Open Cluster
Constellation Cepheus

Hemisphere Northern
Season Fall/Early Winter

Magnitude 8.1 Size 14

RA 00 44.4 Dec +85 20

Sky Atlas 2000 page 3 Other Chart Page(s)

Description

Observing Notes

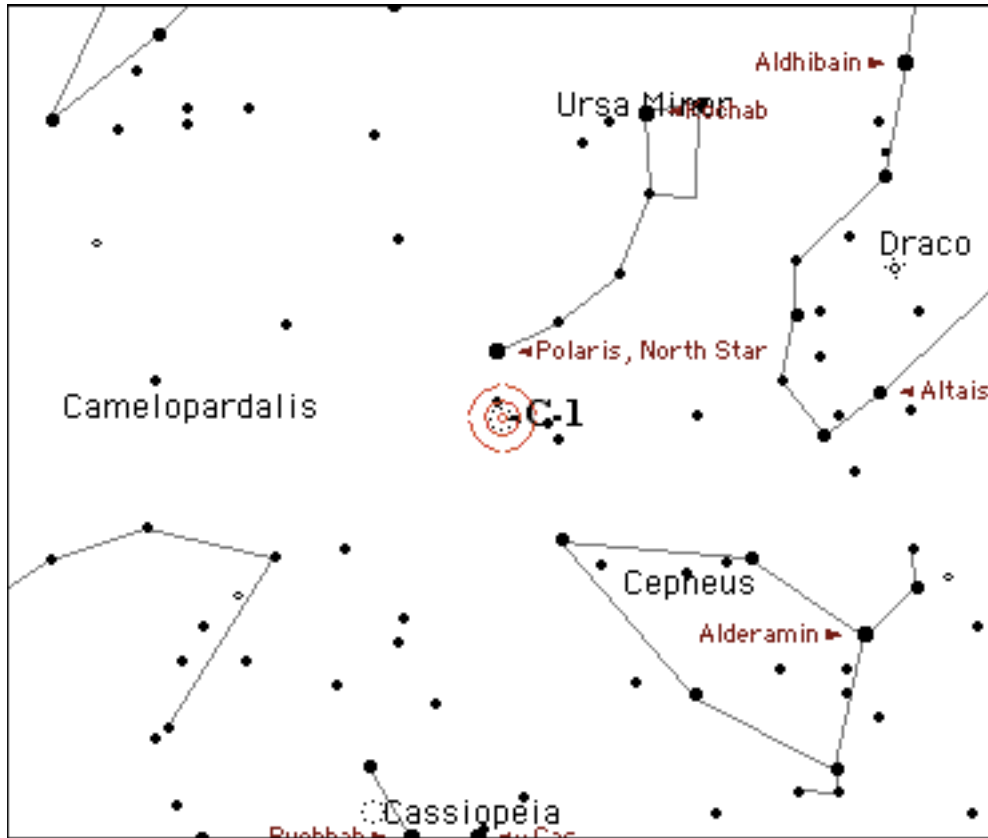
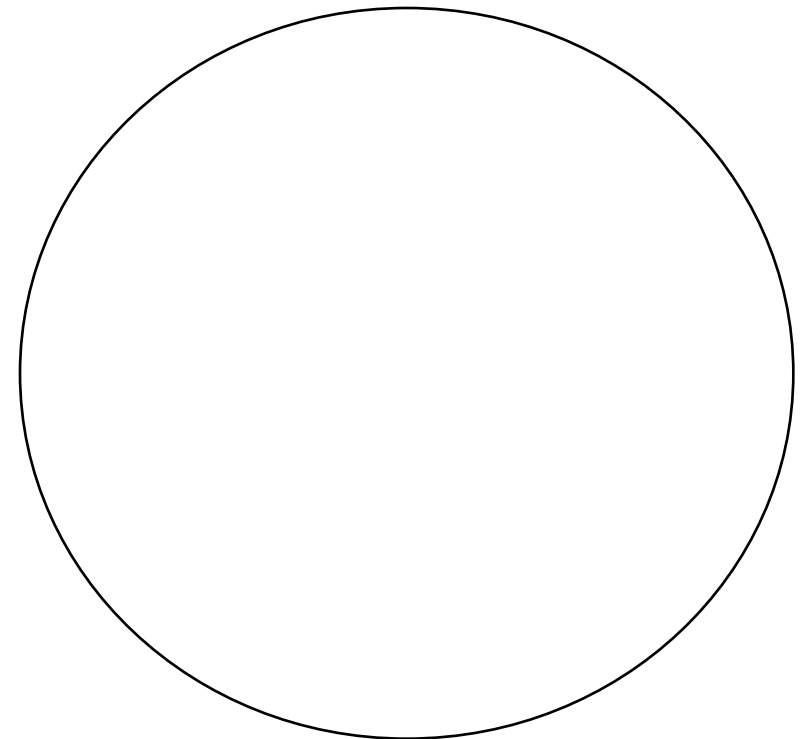
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 002

Name/Designation C-2
NGC # 40

Seen?
Date

Type Planetary Nebula
Constellation Cepheus
Magnitude 12.4 Size 0.6
RA 00 13.0 Dec +72 32

Hemisphere Northern
Season Fall/Early Winter

Sky Atlas 2000 page 1 Other Chart Page(s)

Description

Observing Notes

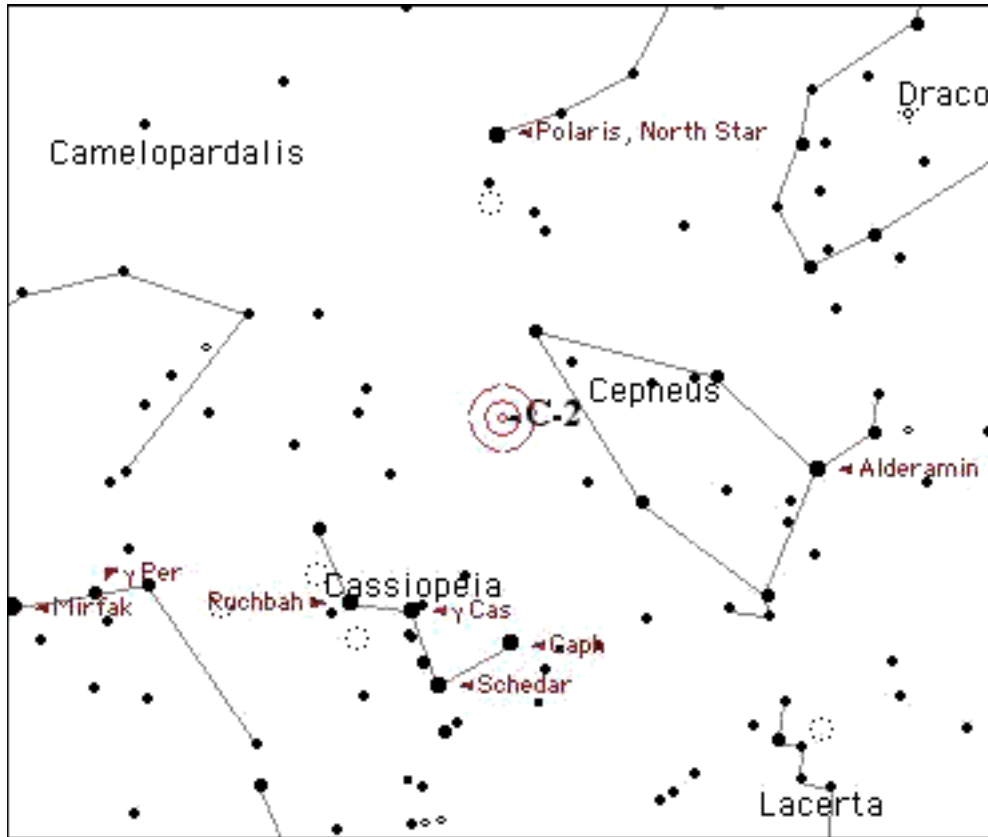
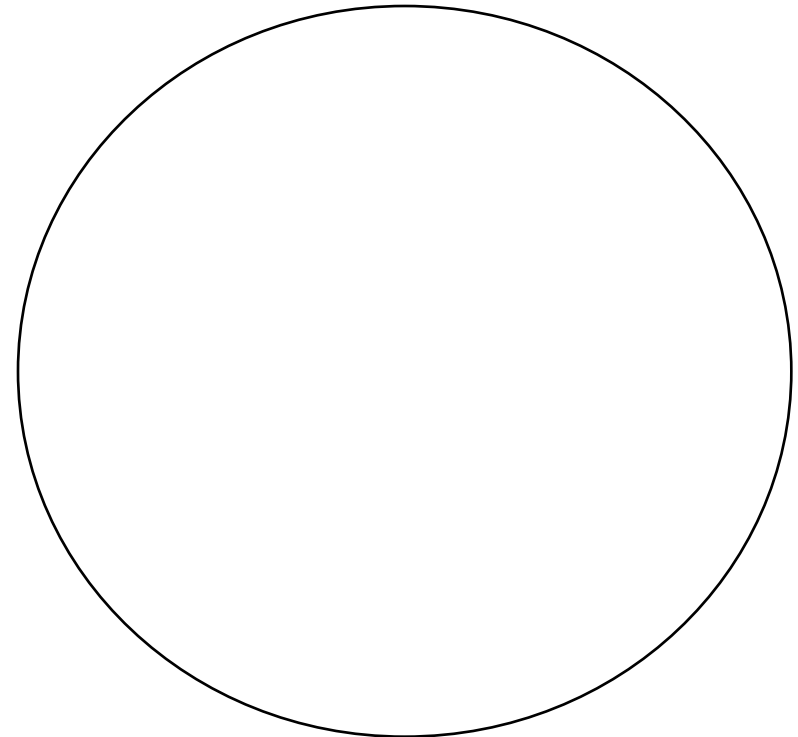
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 003

Name/Designation C-3
NGC # 4236

Seen?
Date

Type Galaxy Hemisphere Northern
Constellation Draco Season Mid-Summer
Magnitude 9.7 Size 21 X 7
RA 12 16.7 Dec +69 28

Sky Atlas 2000 page 2 Other Chart Page(s)

Description

Observing Notes

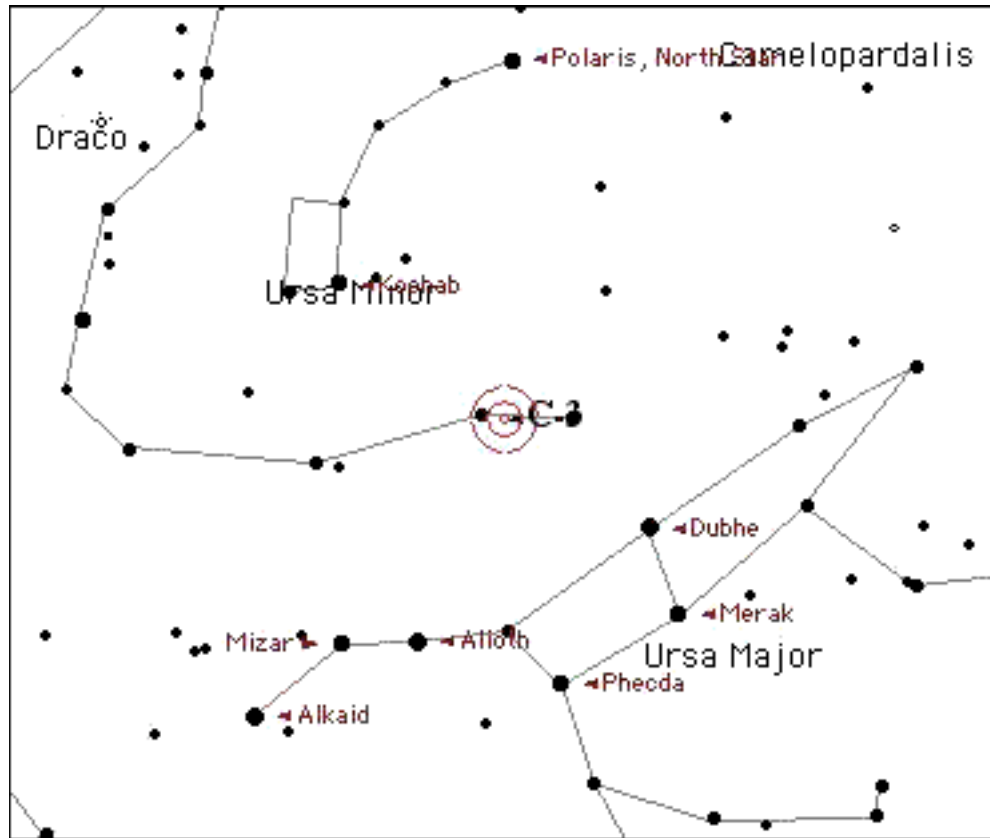
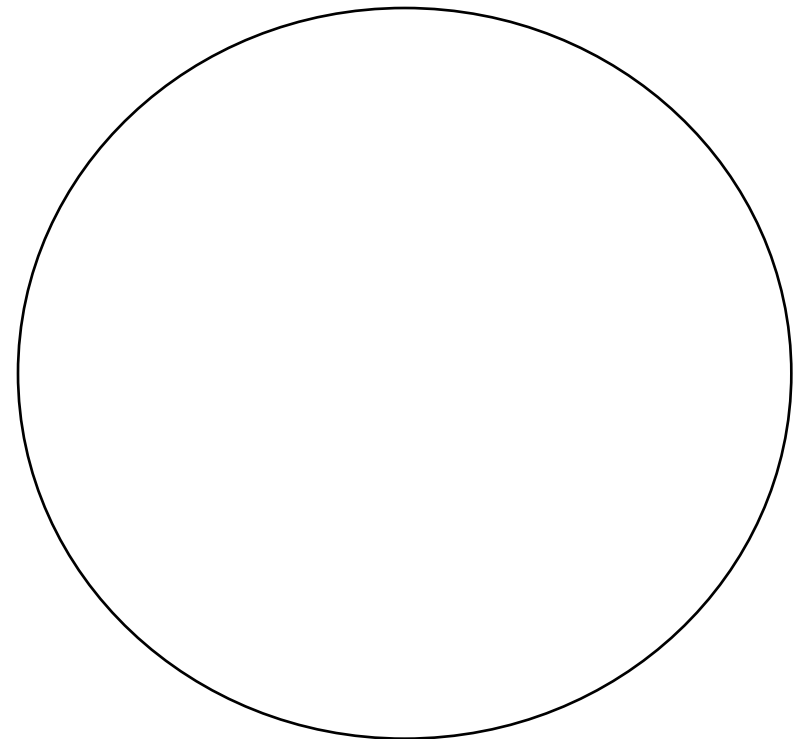
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 004

Name/Designation C-4 (Refl. Nebula)
NGC # 7023

Seen?
Date

Type Diffuse Nebula
Constellation Cepheus

Hemisphere Northern
Season Fall/Early Winter

Magnitude Size 18 X 18
RA 21 01.8 Dec +68 12

Sky Atlas 2000 page 3 Other Chart Page(s)

Description

Observing Notes

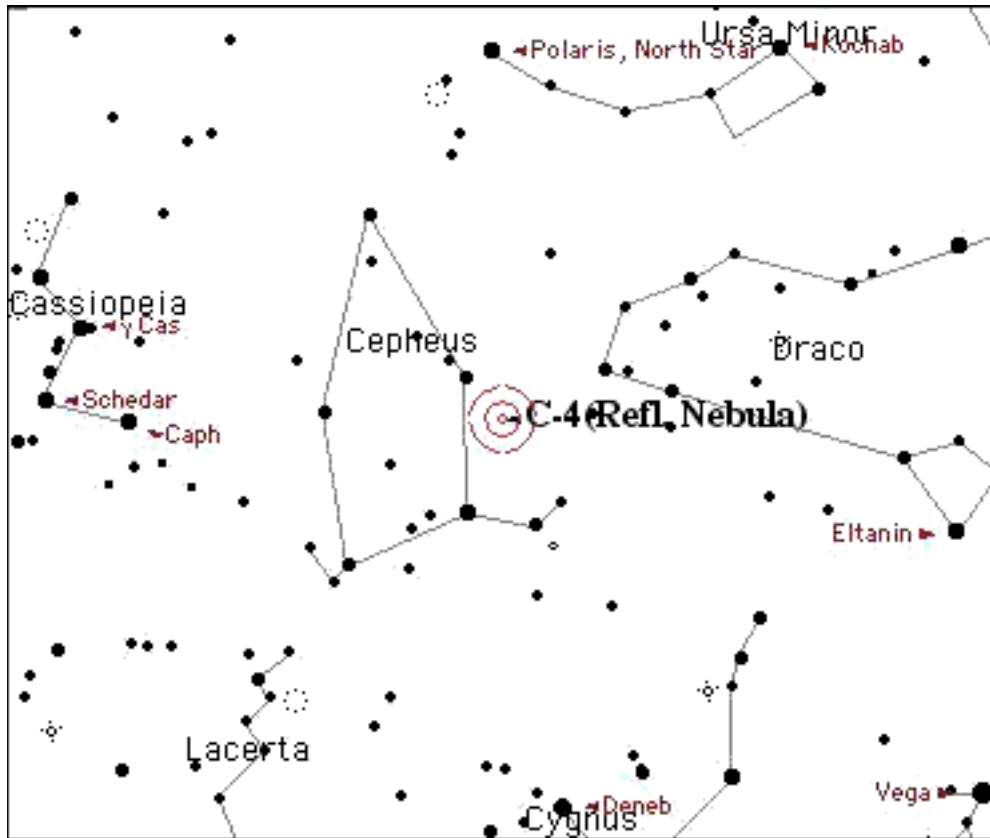
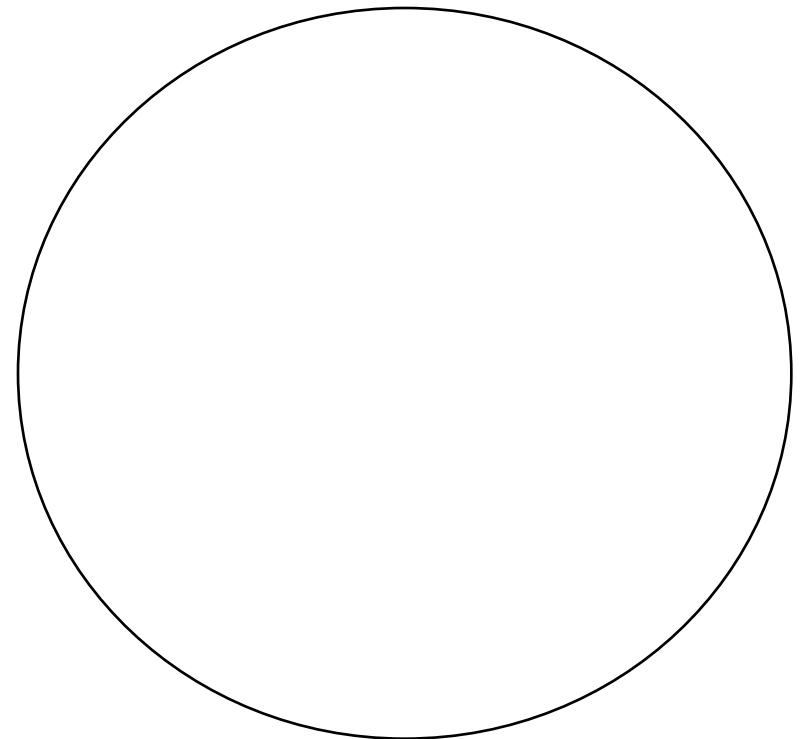
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 005

Name/Designation C-5
NGC # IC 342

Seen?
Date

Type Galaxy
Constellation Camelopardalis

Hemisphere Northern
Season Fall/Early Winter

Magnitude 9.2 Size 18 X 17

RA 03 46.8 Dec +68 06

Sky Atlas 2000 page 1 Other Chart Page(s)

Description

Observing Notes

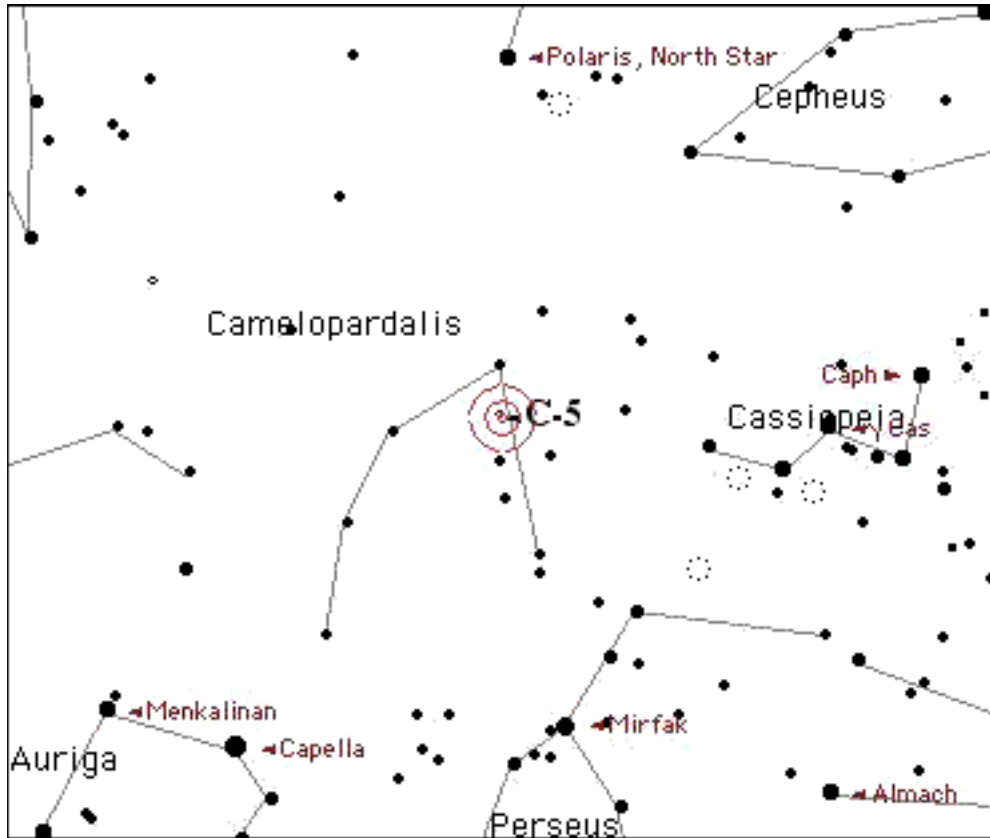
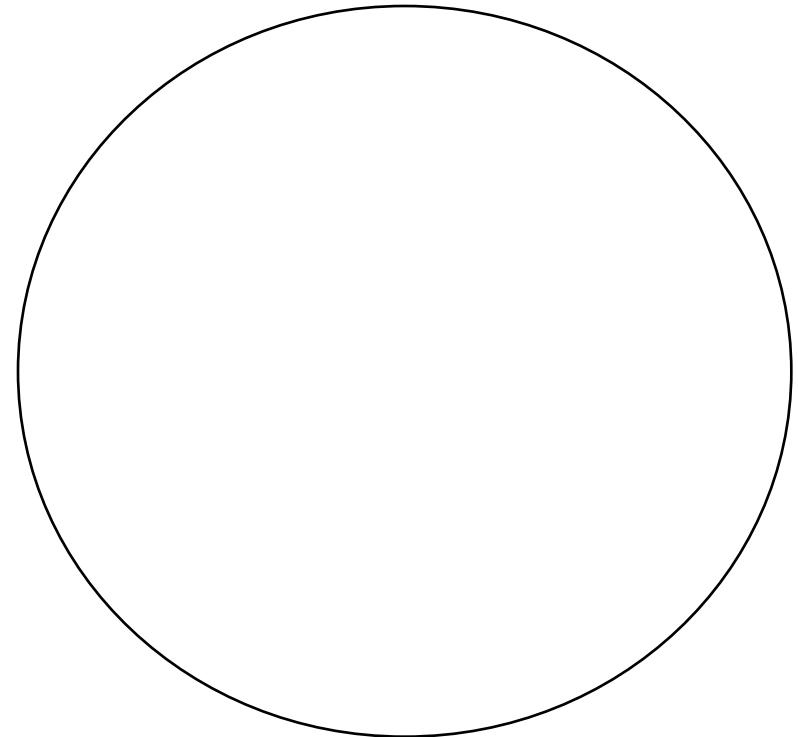
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Caldwell# 006

Name/Designation C-6 (Cat's Eye Neb.)
NGC # 6543

Seen?
Date

Type Planetary Nebula
Constellation Draco
Magnitude 8.1
RA 17 58.6
Size 0.3 / 5.8
Dec +66 38

Hemisphere Northern
Season Mid-Summer

Sky Atlas 2000 page 3 **Other Chart Page(s)**

Description

Observing Notes

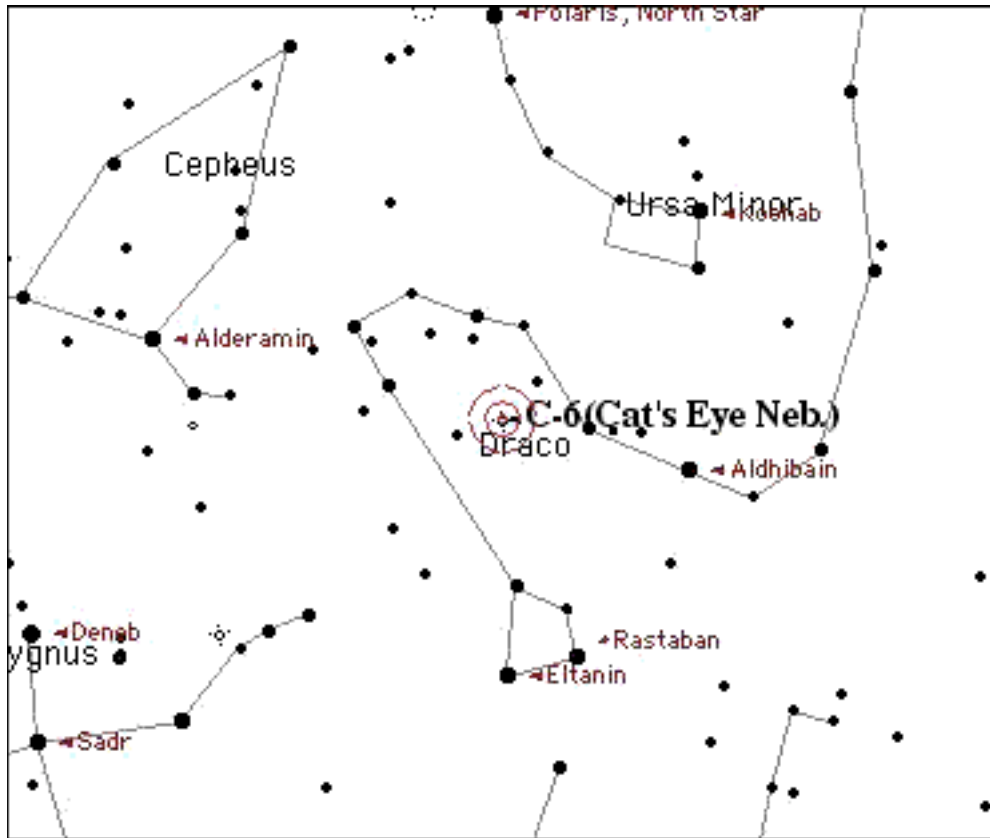
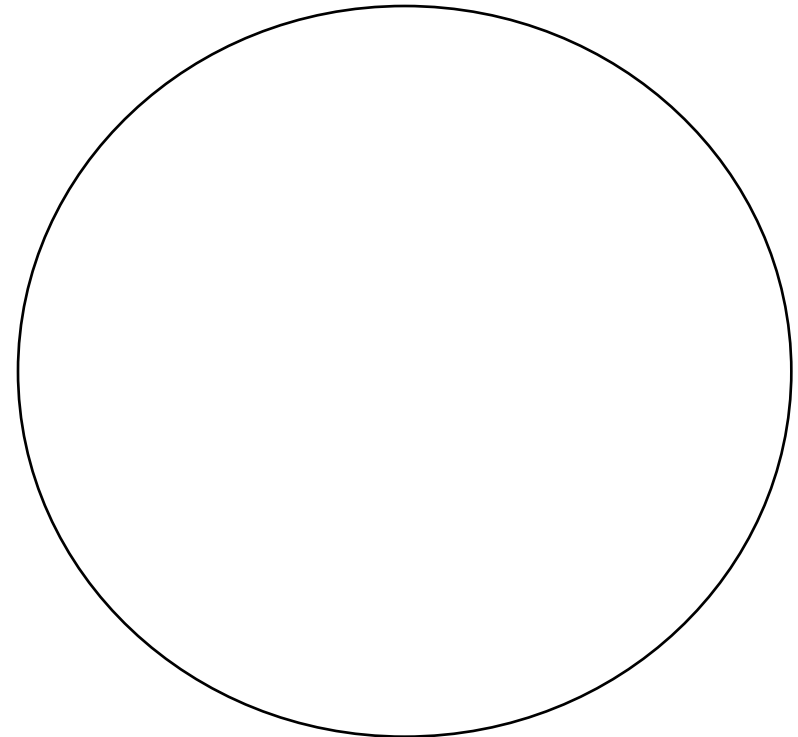
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



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Caldwell# 007

Name/Designation C-7
NGC # 2403

Seen?
Date

Type Galaxy
Constellation Camelopardalis
Magnitude 8.4 Size 18 X 10
RA 07 36.9 Dec +65 36

Hemisphere Northern
Season Fall/Early Winter

Observing Notes

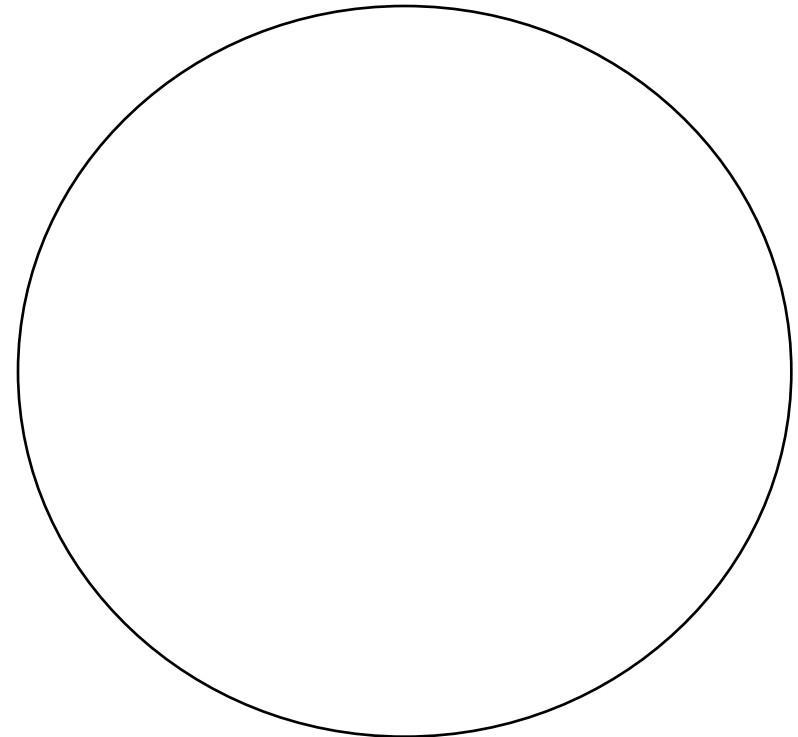
Viewing Time Comments

Observing Site

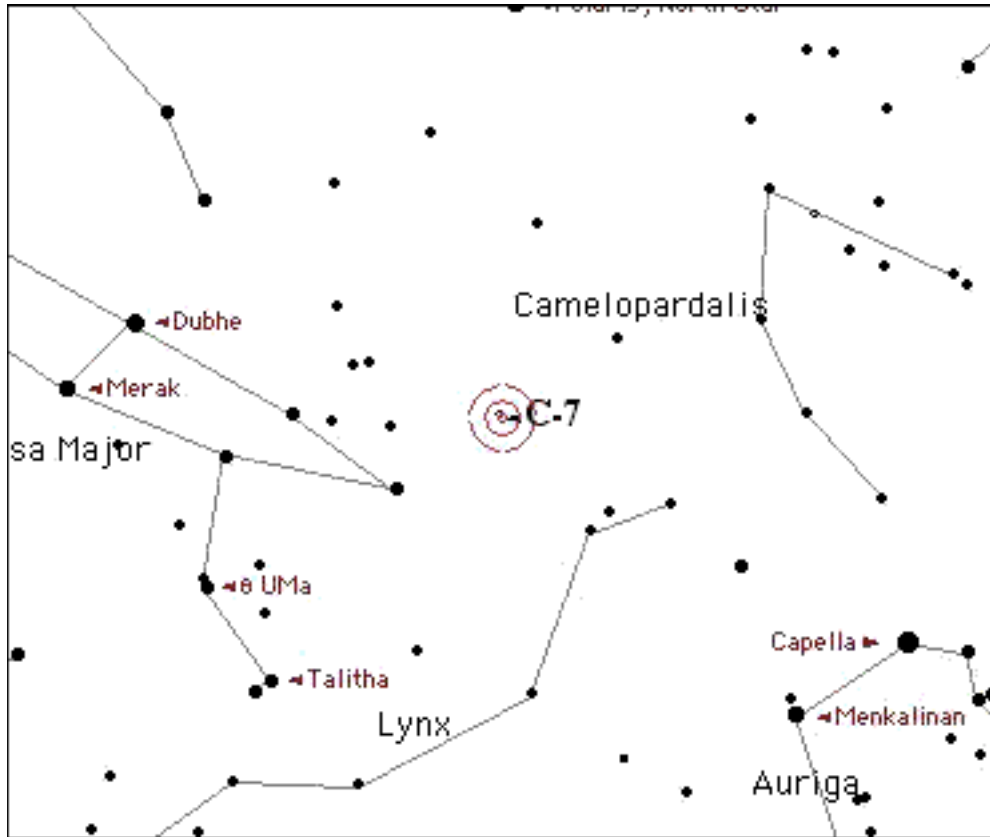
Equipment

Sky : Seeing Transparency

Comments



Sky Atlas 2000 page 1 Other Chart Page(s)
Description



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Caldwell# 008

Name/Designation C-8
NGC # 559

Seen?
Date

Type Open Cluster
Constellation Cassiopeia

Hemisphere Northern
Season Winter

Magnitude 9.5 Size 4

RA 01 29.5 Dec +63 18

Sky Atlas 2000 page 1 Other Chart Page(s)

Description

Observing Notes

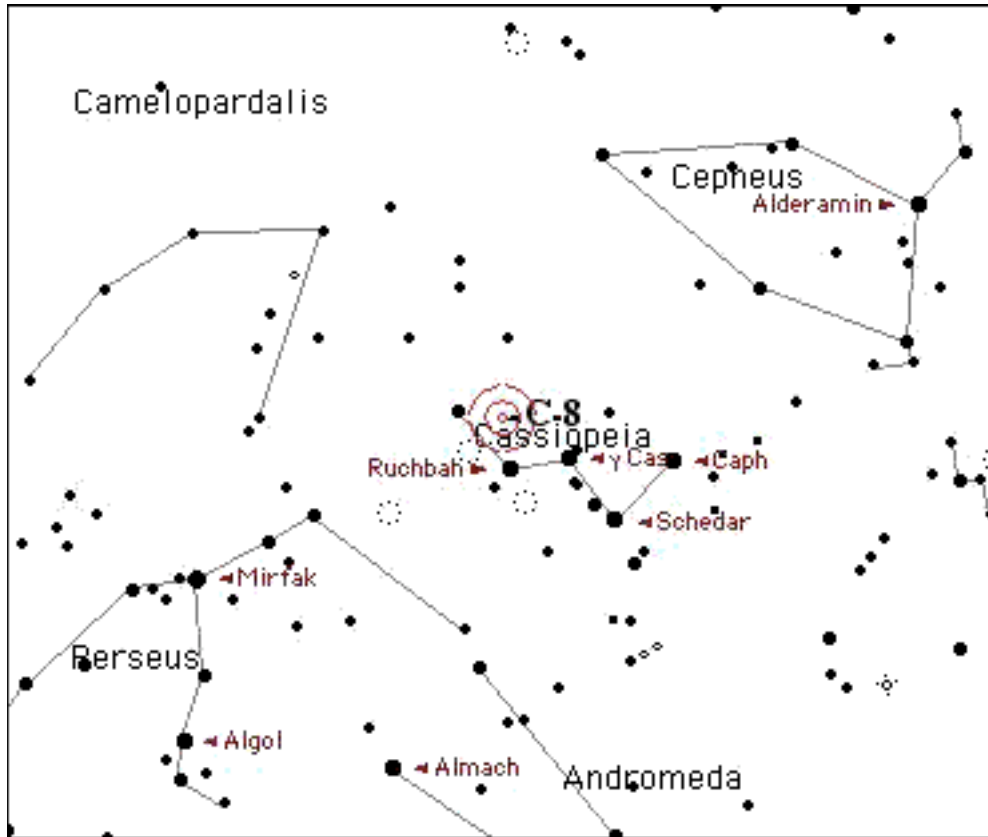
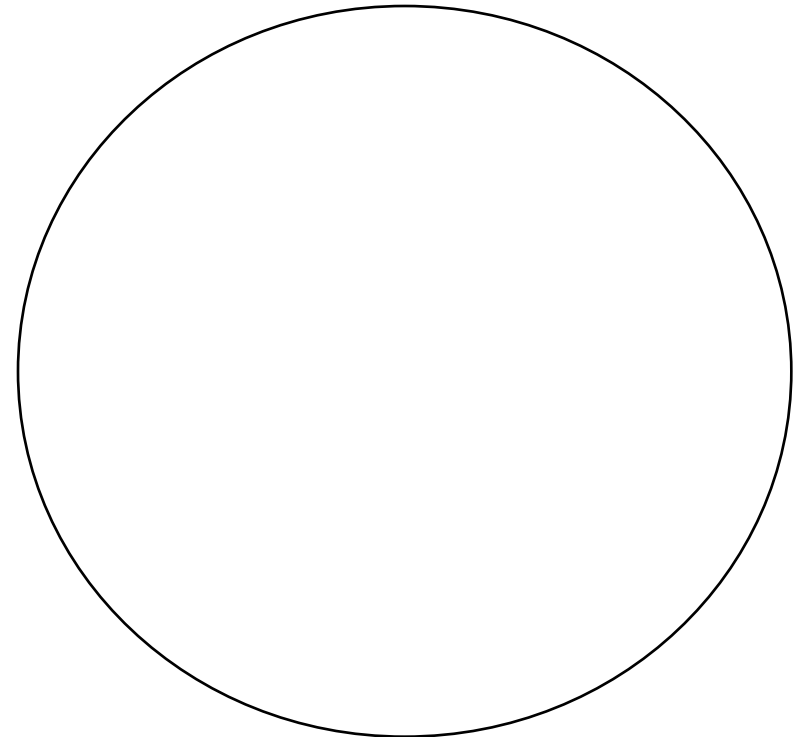
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 009

Name/Designation C-9 (Cave Nebula)
NGC # Sh2-155

Seen?
Date

Type Diffuse Nebula
Constellation Cepheus

Hemisphere Northern
Season Fall/Early Winter

Magnitude **Size** 50 X 10
RA 22 56.8 **Dec** +62 37

Sky Atlas 2000 page 3 **Other Chart Page(s)**

Description

Observing Notes

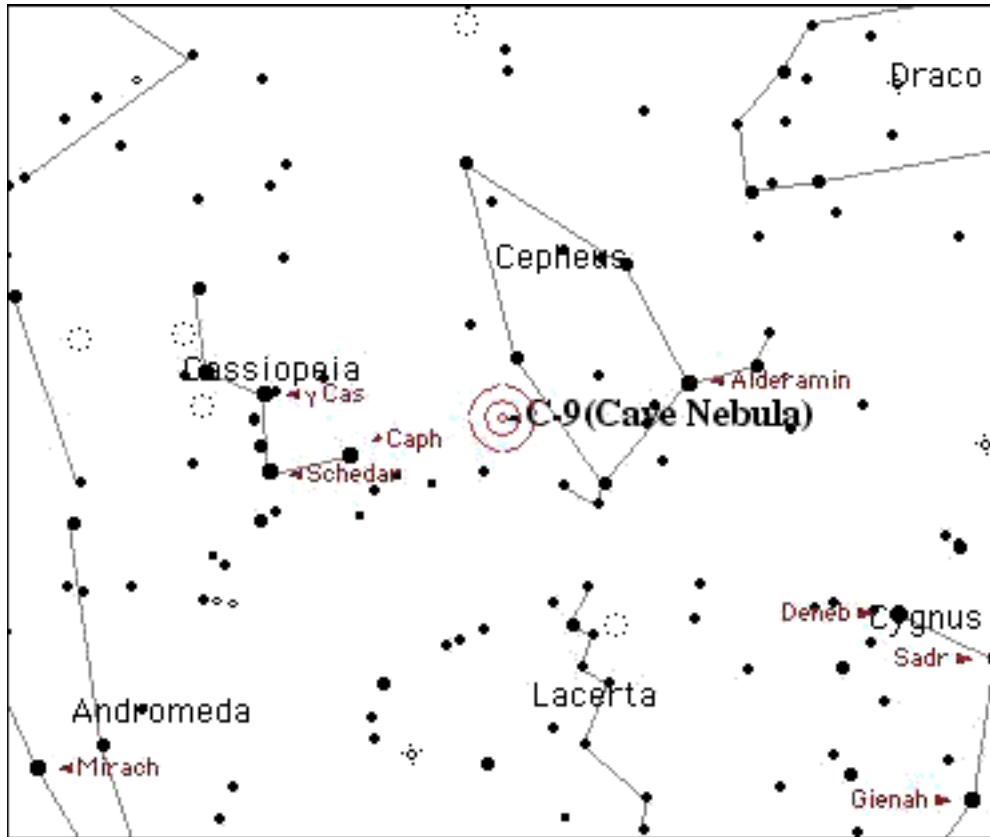
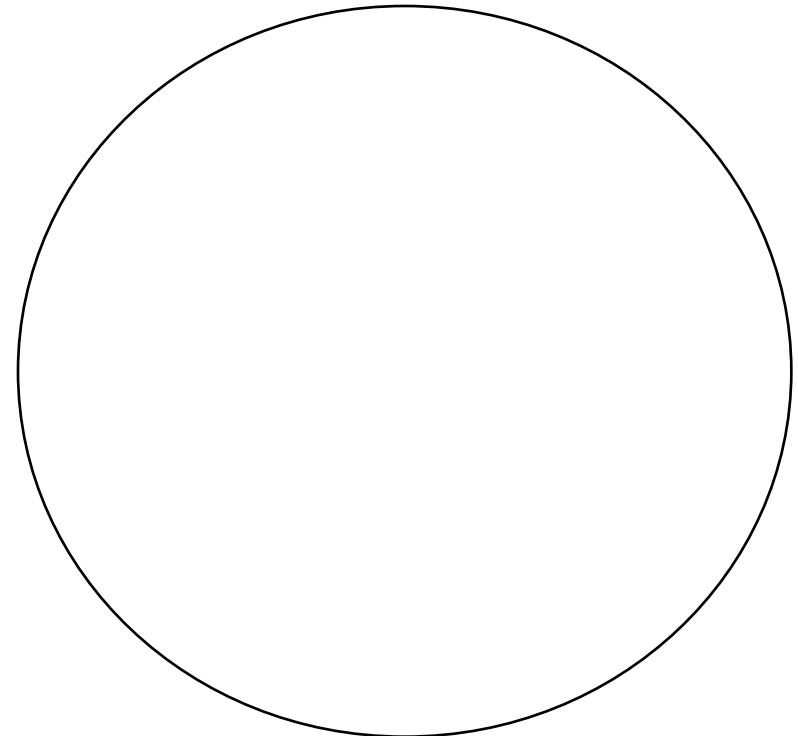
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



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Caldwell# 010

Name/Designation C-10
NGC # 663

Seen?
Date

Type Open Cluster
Constellation Cassiopeia
Magnitude 7.1 **Size** 16
RA 01 46.0 **Dec** +61 15

Hemisphere Northern
Season Winter

Sky Atlas 2000 page 1 **Other Chart Page(s)**

Description

Observing Notes

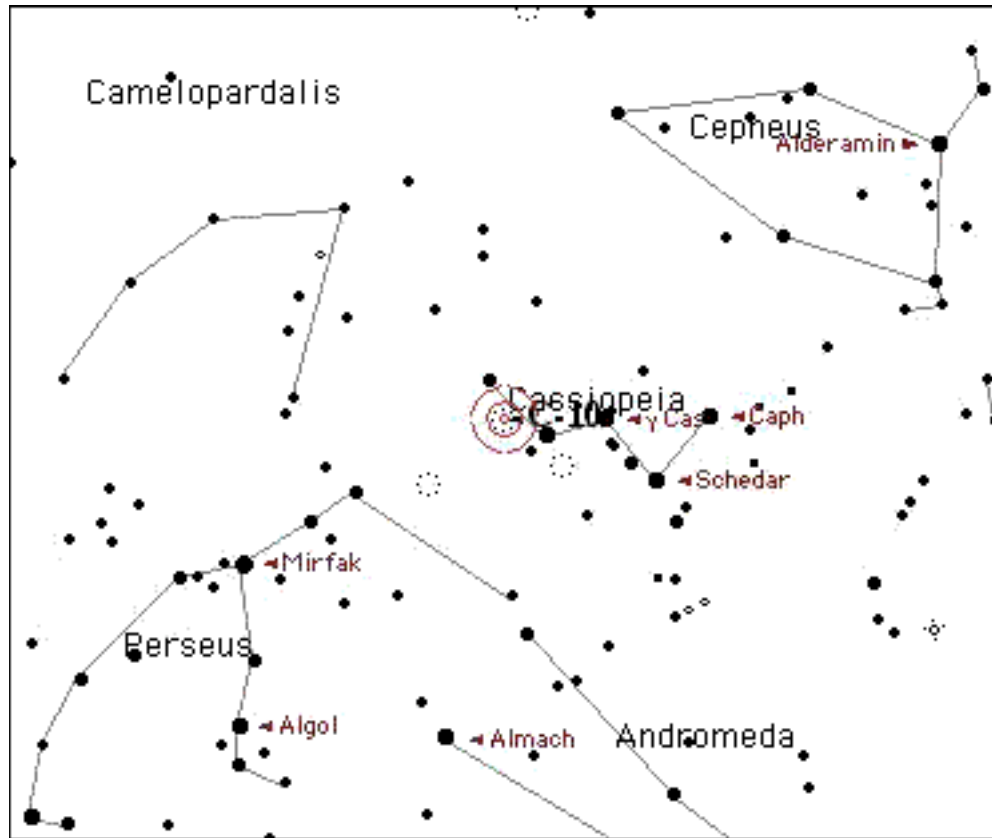
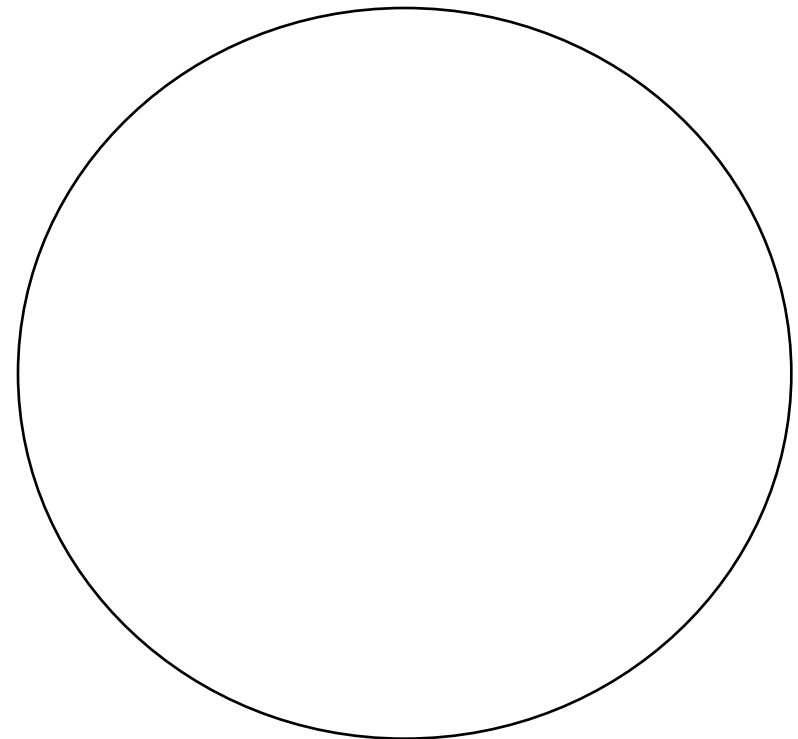
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



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Caldwell# 011

Name/Designation C-11 (Bubble Nebula)
NGC # 7635

Seen?
Date

Type Diffuse Nebula **Hemisphere** Northern
Constellation Cassiopeia **Season** Winter
Magnitude **Size** 15 X 18
RA 23 20.7 **Dec** +61 12

Sky Atlas 2000 page 3 **Other Chart Page(s)**

Description

Observing Notes

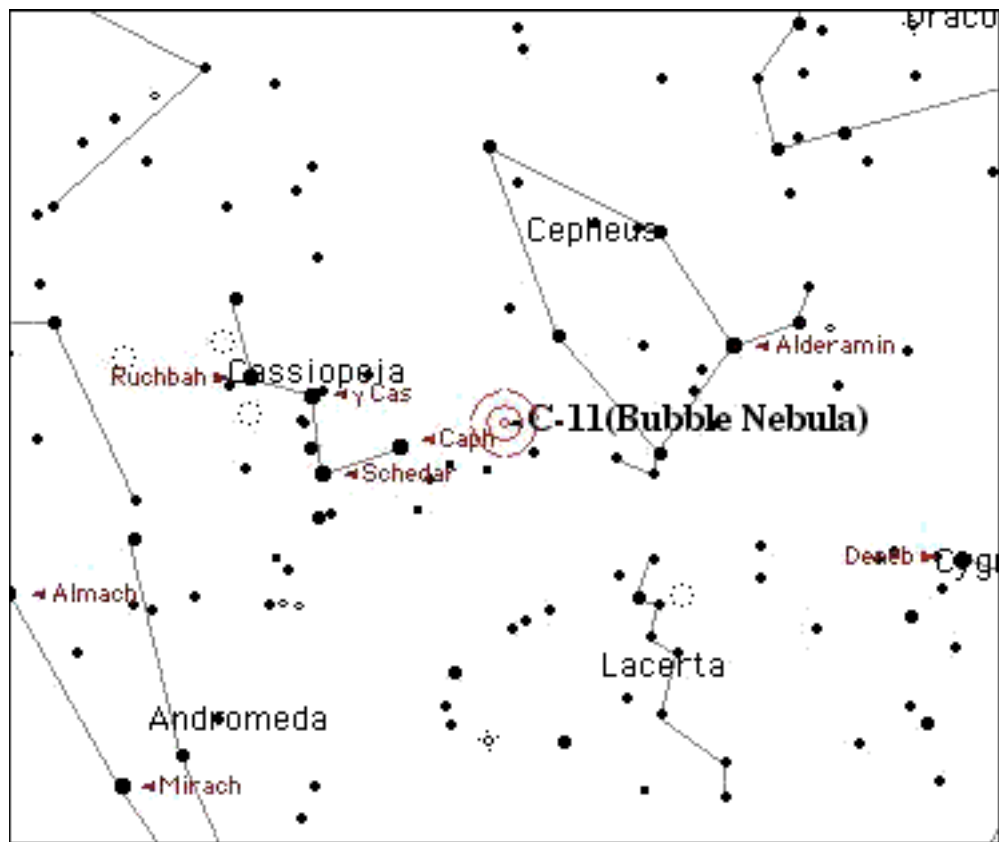
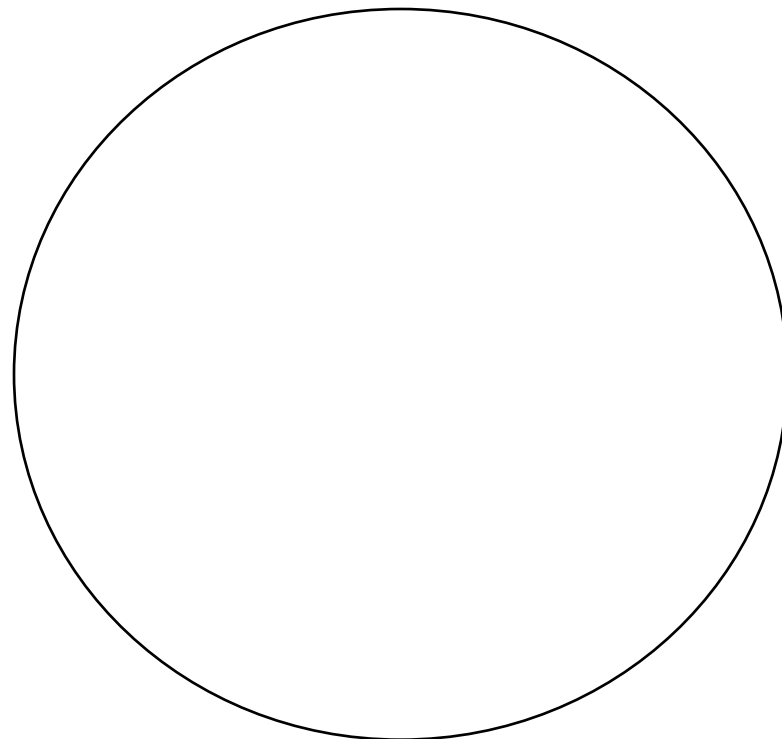
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



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Caldwell# 012

Name/Designation C-12
NGC # 6946

Seen?
Date

Type Galaxy Hemisphere Northern
Constellation Cepheus Season Fall/Early Winter
Magnitude 8.9 Size 11 X 9
RA 20 34.8 Dec +60 09

Sky Atlas 2000 page 3 Other Chart Page(s)

Description

Observing Notes

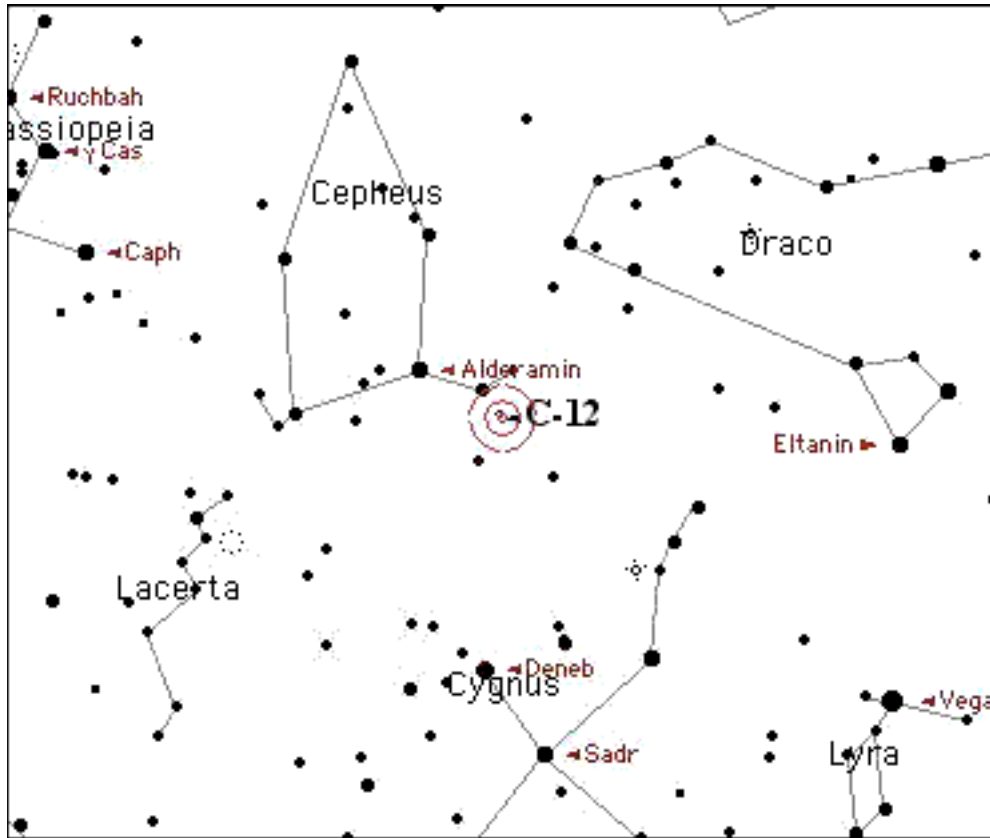
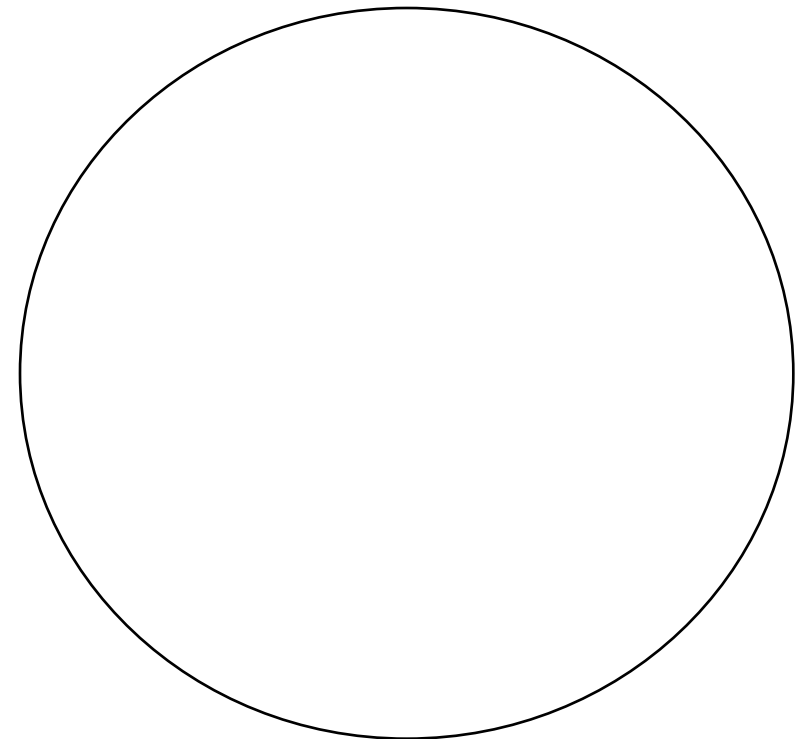
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 013

Name/Designation C-13 (Phi Cas Cluster)
NGC # 457

Seen?
Date

Type Open Cluster
Constellation Cassiopeia
Magnitude 6.4 **Size** 13
RA 01 19.1 **Dec** +58 20

Hemisphere Northern
Season Winter

Sky Atlas 2000 page 1 **Other Chart Page(s)**

Description

Observing Notes

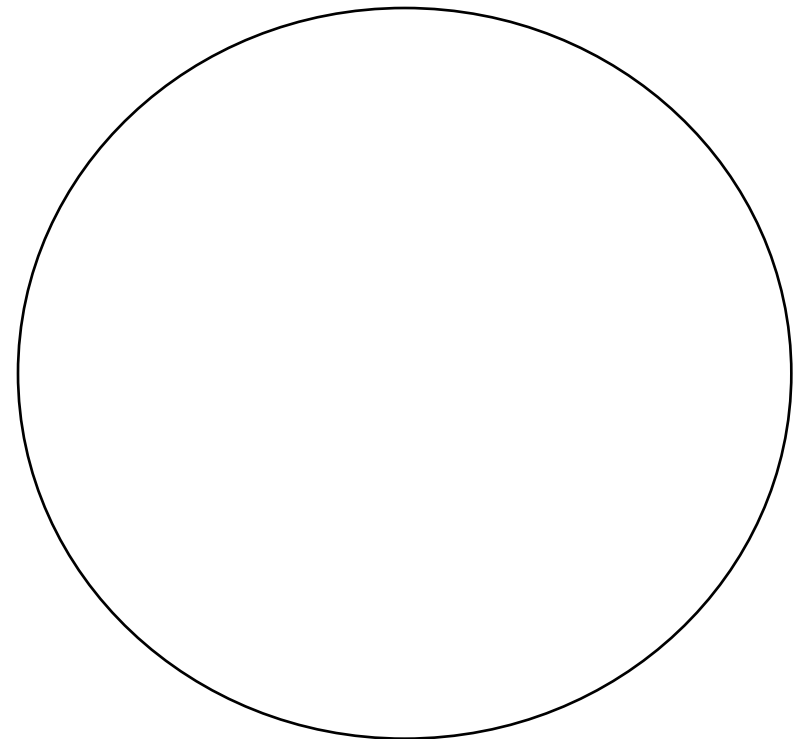
Viewing Time Comments

Observing Site

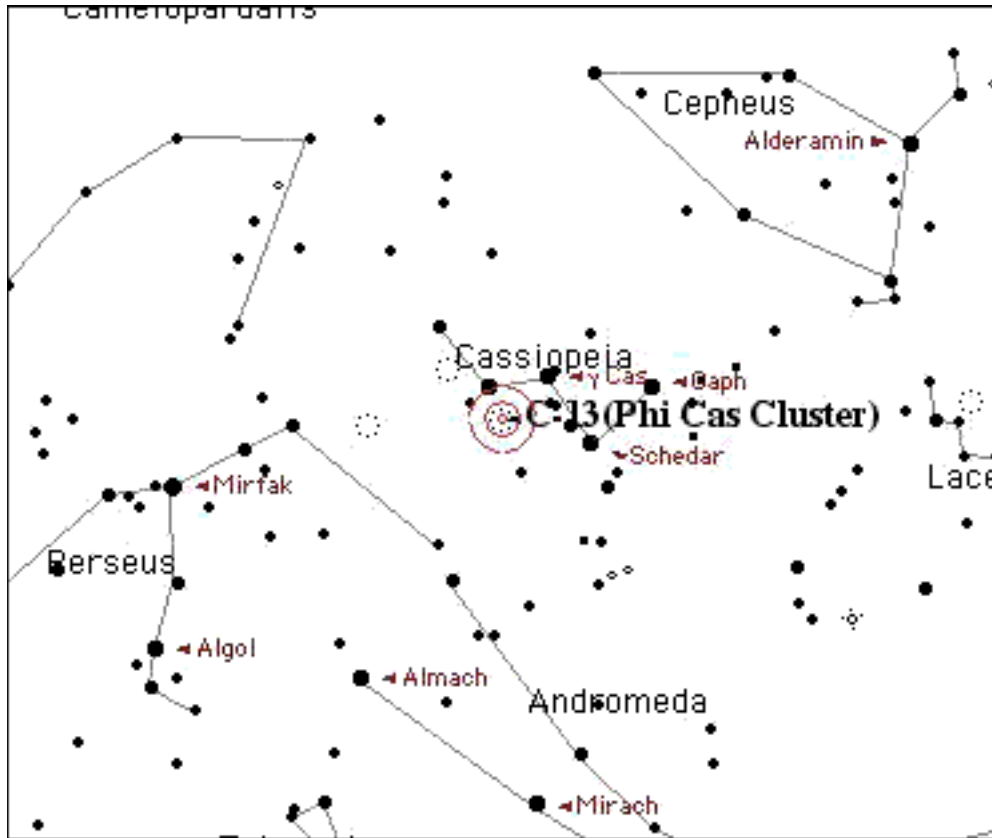
Equipment

Sky : Seeing **Transparency**

Comments



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Caldwell# 014

Name/Designation C-14 (Double Cluster)
NGC # 869/884

Seen?
Date

Type Open Cluster
Constellation Perseus
Magnitude 4.3
RA 02 20.0
Size 30 and 30
Dec +57 08
Hemisphere Either
Season Winter

Sky Atlas 2000 page 1 **Other Chart Page(s)**

Description

Observing Notes

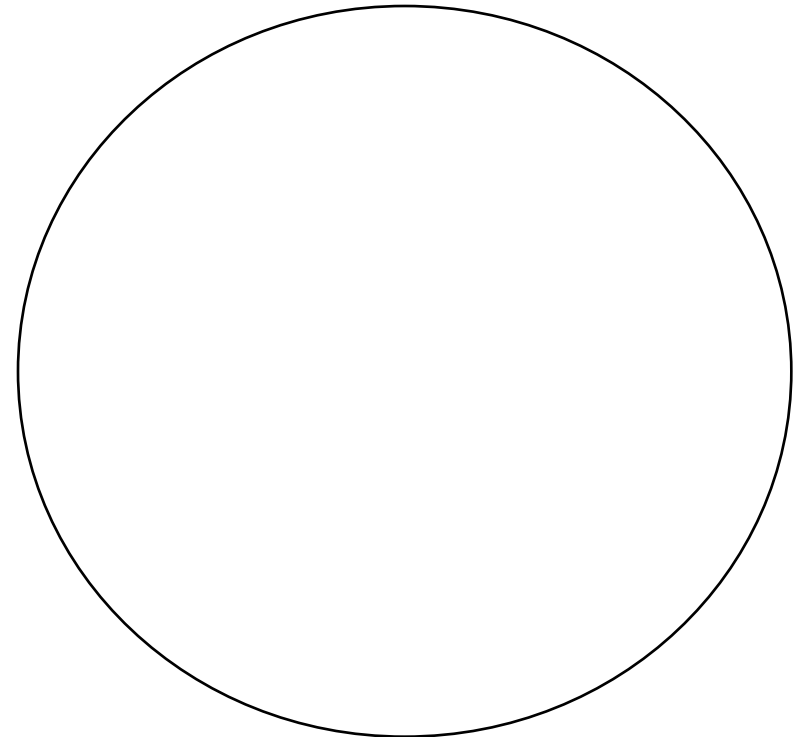
Viewing Time Comments

Observing Site

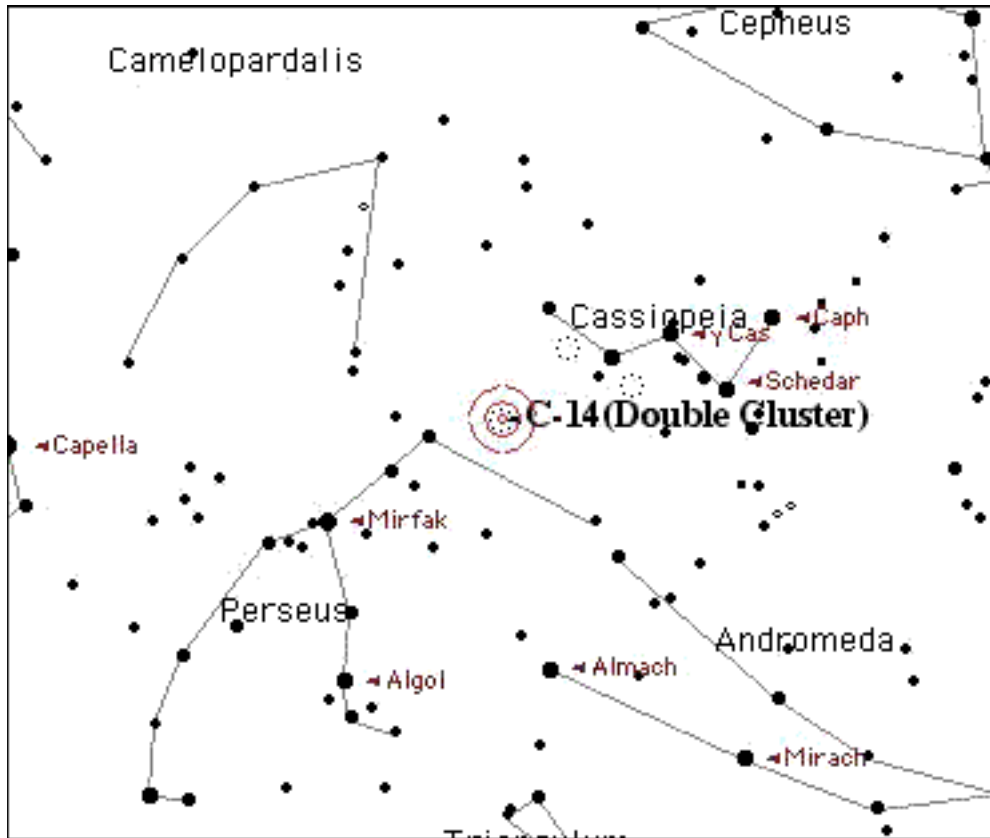
Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 015

Name/Designation C-15 (Blinking Nebula)
NGC # 6826

Seen?
Date

Type Planetary Nebula
Constellation Cygnus
Magnitude 8.8
RA 19 44.8
Size 0.5 / 2.3
Dec +50 31

Hemisphere Northern
Season Late Summer

Sky Atlas 2000 page 9 **Other Chart Page(s)**

Description

Observing Notes

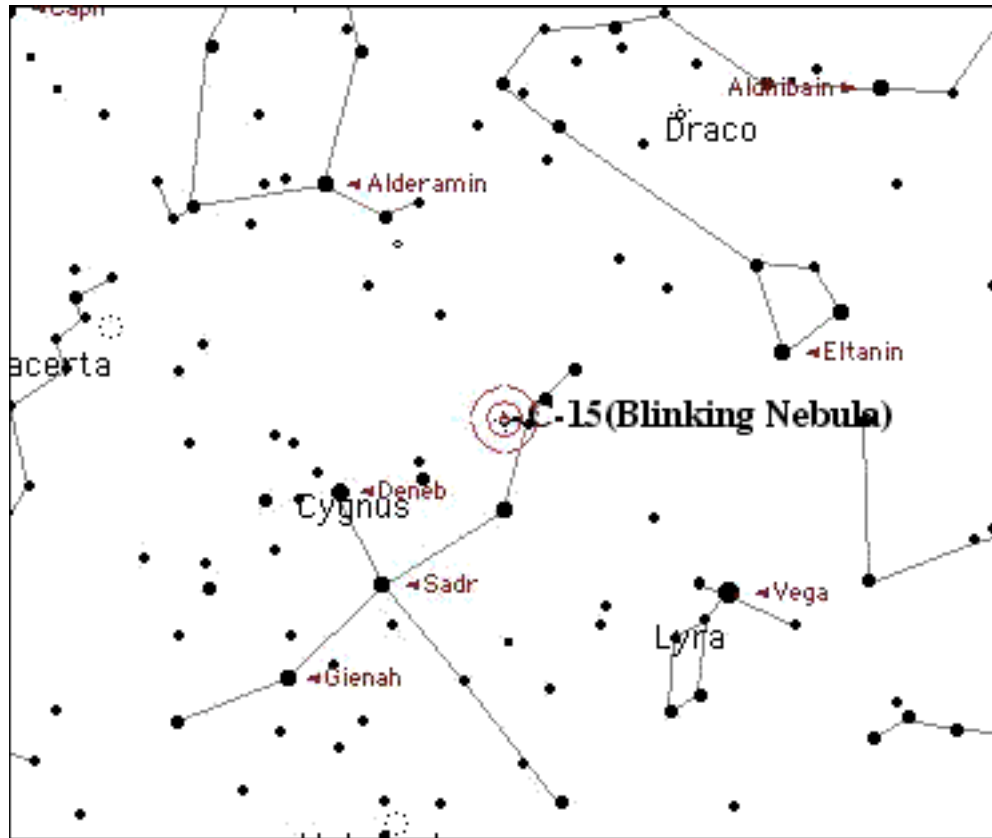
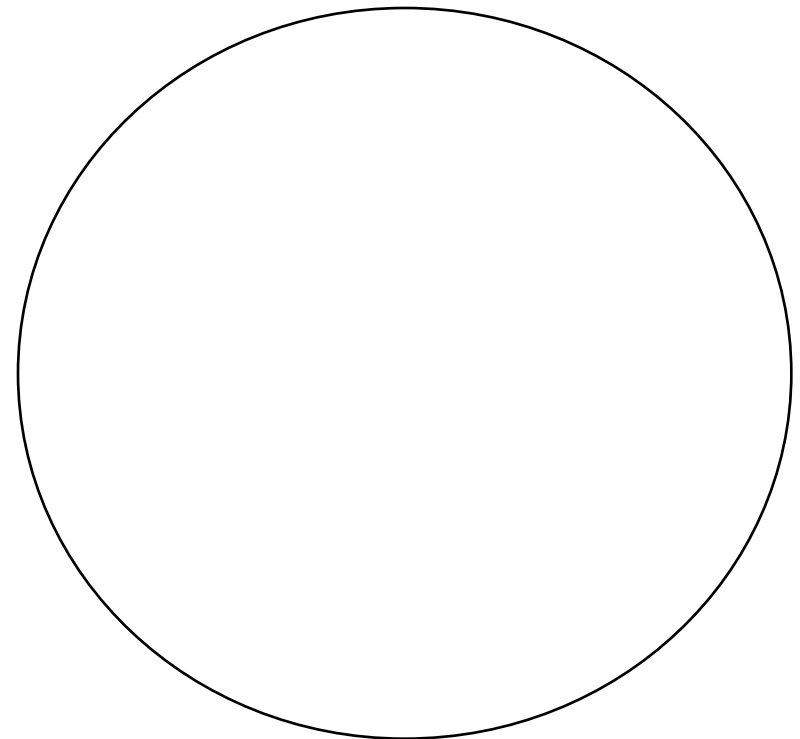
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



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Caldwell# 016

Name/Designation C-16
NGC # 7243

Seen?
Date

Type Open Cluster
Constellation Lacerta
Magnitude 6.4
RA 22 15.3

Size 21
Dec +49 53

Hemisphere Either
Season Late Summer

Sky Atlas 2000 page 9 *Other Chart Page(s)*

Description

Observing Notes

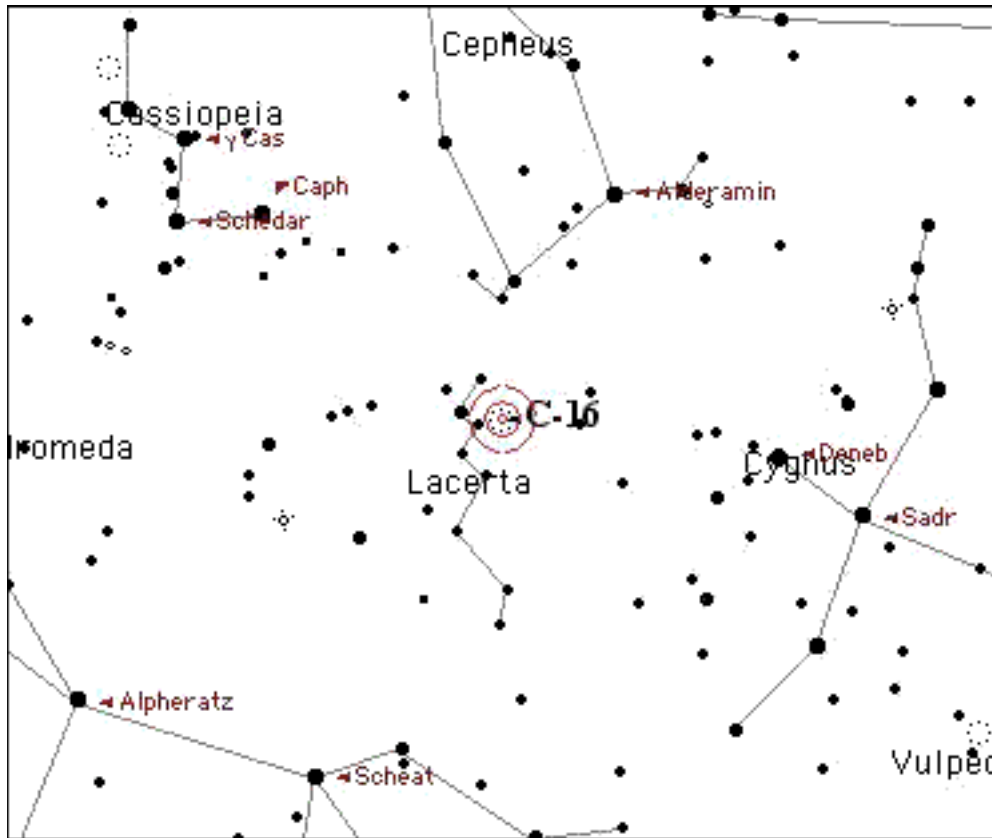
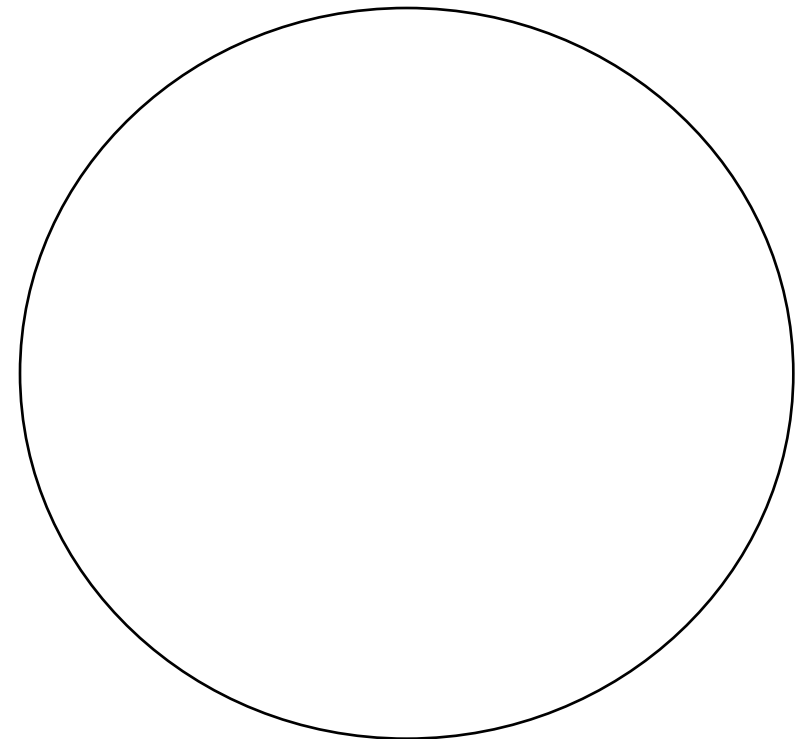
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Caldwell# 017

Name/Designation C-17
NGC # 147

Seen?
Date

Type Galaxy Hemisphere Northern
Constellation Casseopeia Season Winter
Magnitude 9.3 Size 13 X 8
RA 00 33.2 Dec +48 30

Sky Atlas 2000 page 9 Other Chart Page(s)

Description

Observing Notes

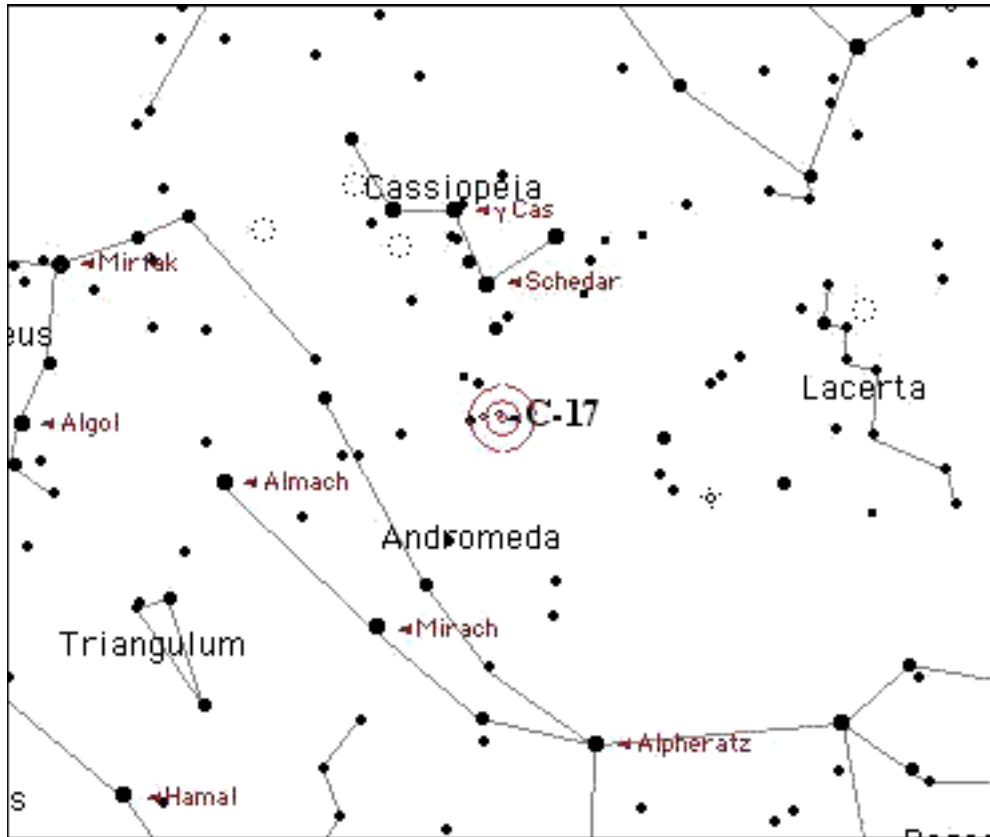
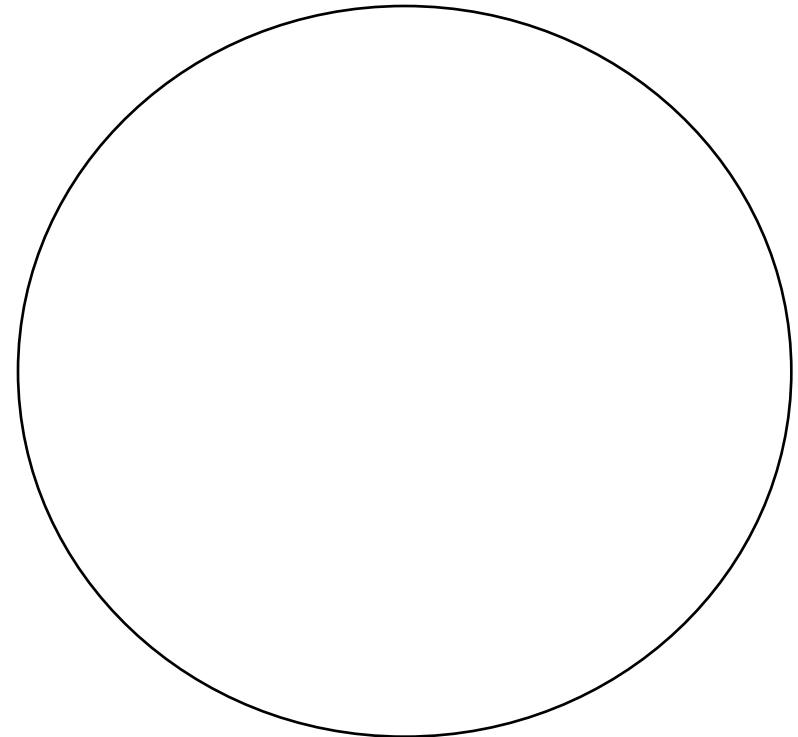
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 018

Name/Designation C-18
NGC # 185

Seen?
Date

Type Galaxy
Constellation Casseopeia
Magnitude 9.2
RA 00 39.0

Size 12 X 9
Dec +48 20

Hemisphere Northern
Season Winter

Sky Atlas 2000 page 9

Other Chart Page(s)

Description

Observing Notes

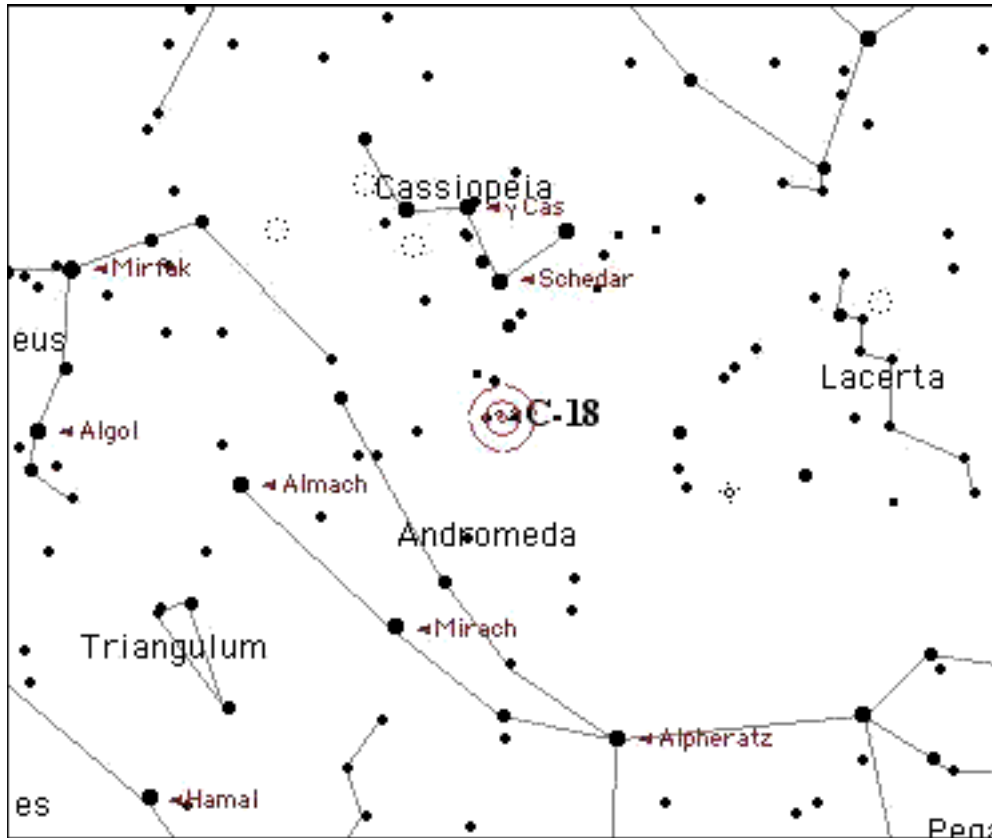
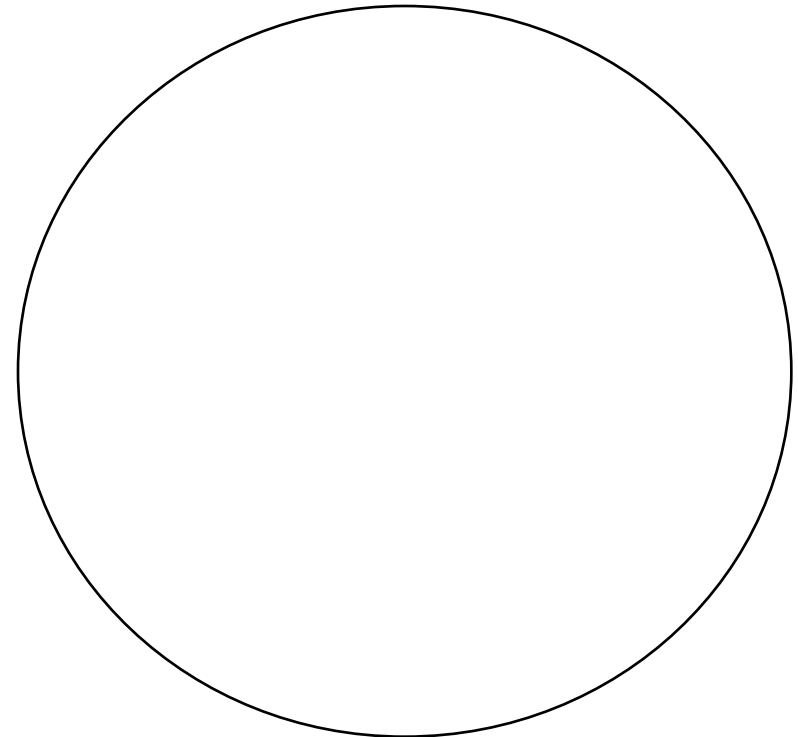
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 019

Name/Designation C-19 (Cocoon Nebula)
NGC # IC 5146

Seen?
Date

Type Diffuse Nebula *Hemisphere* Northern
Constellation Cygnus *Season* Late Summer
Magnitude *Size* 12 X 12
RA 21 53.5 *Dec* +47 16

Sky Atlas 2000 page 9 *Other Chart Page(s)*

Description

Observing Notes

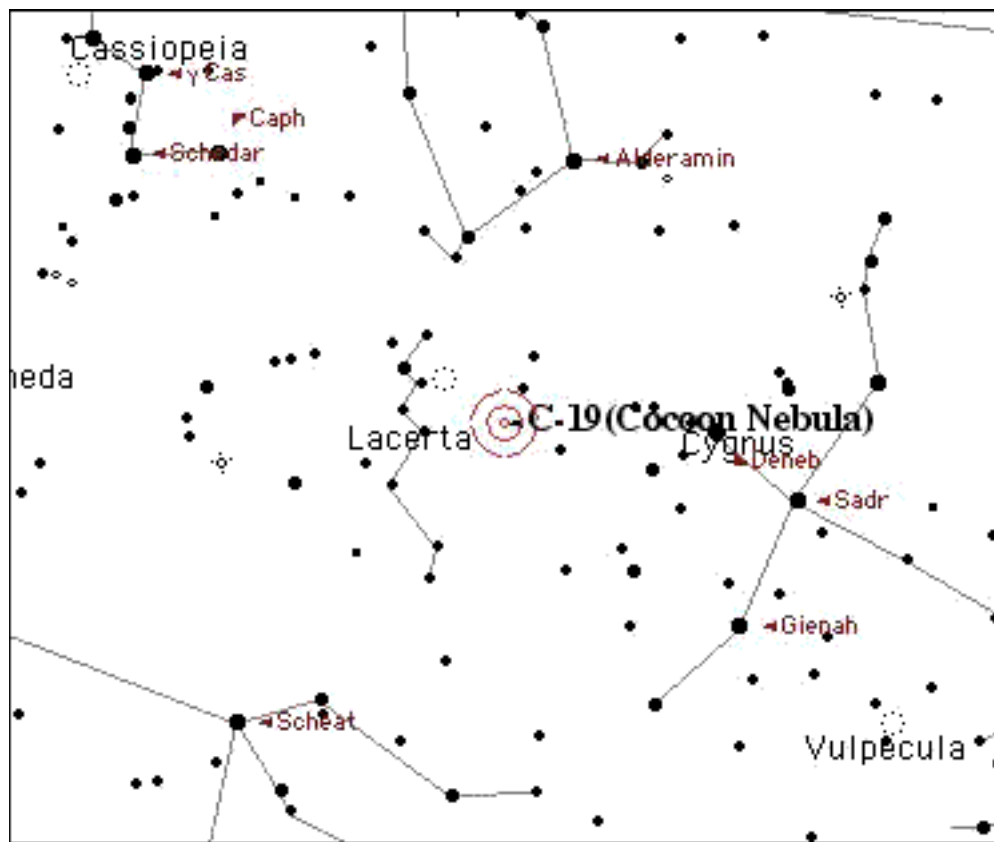
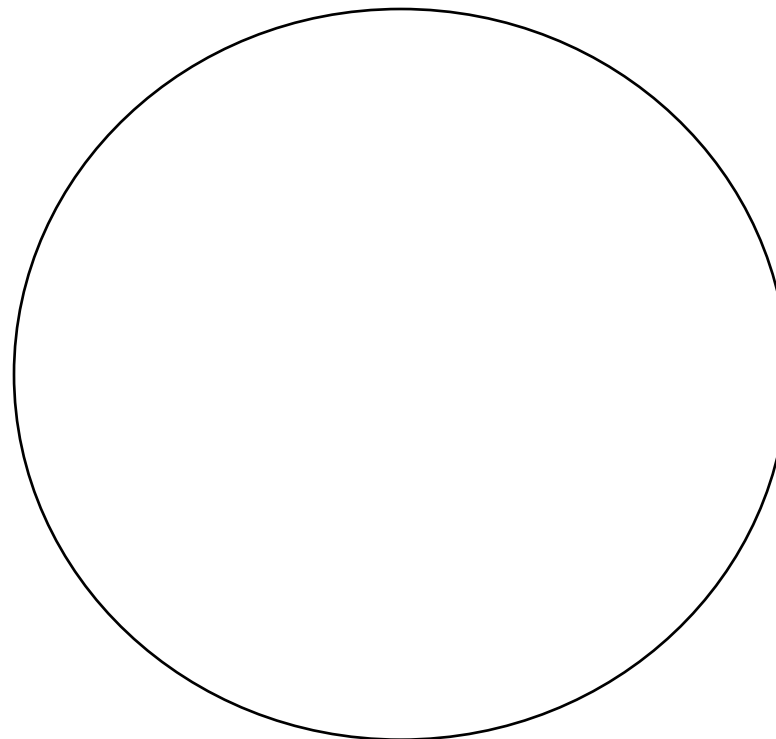
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



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Caldwell# 020

Name/Designation
NGC #

C-20 (N. America Neb.)
7000

Seen?
Date

Type Diffuse Nebula
Constellation Cygnus
Hemisphere Northern
Season Late Summer
Magnitude Size 120 X 100
RA 20 58.8 Dec +44 20

Sky Atlas 2000 page 9 Other Chart Page(s)

Description

Observing Notes

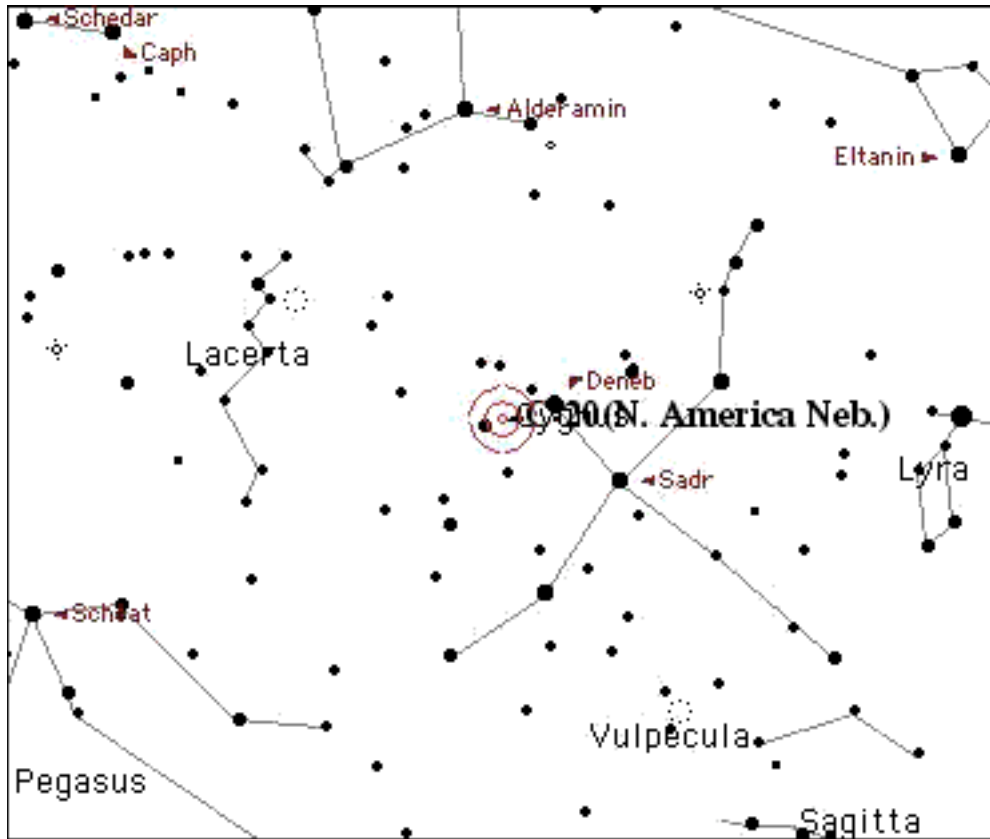
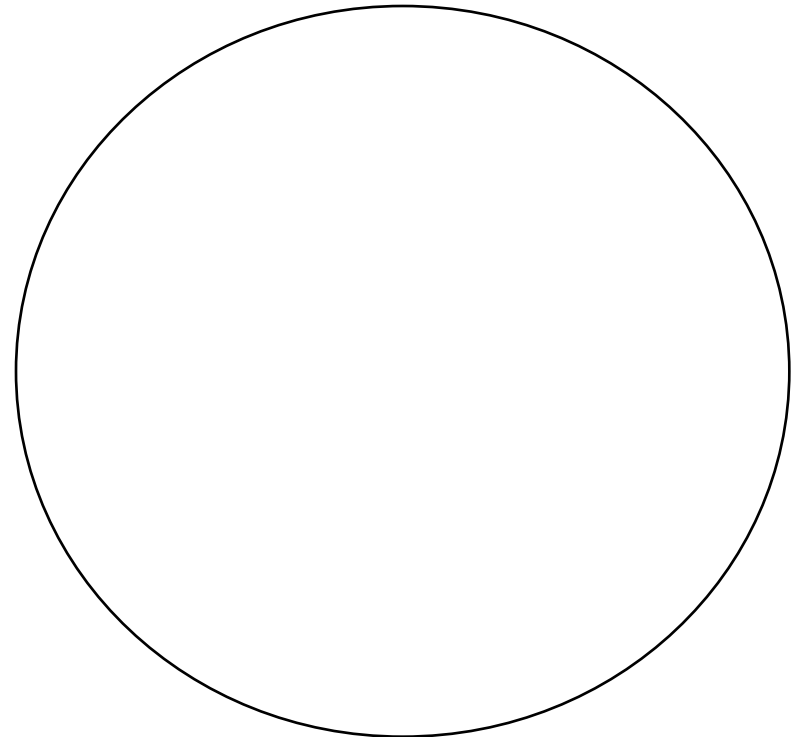
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 021

Name/Designation C-21
NGC # 4449

Seen?
Date

Type Galaxy
Constellation Canes Venatici

Hemisphere Northern
Season Early Spring

Magnitude 9.4 Size 5 X 3

RA 12 28.2 Dec +44 06

Sky Atlas 2000 page 7 Other Chart Page(s)

Description

Observing Notes

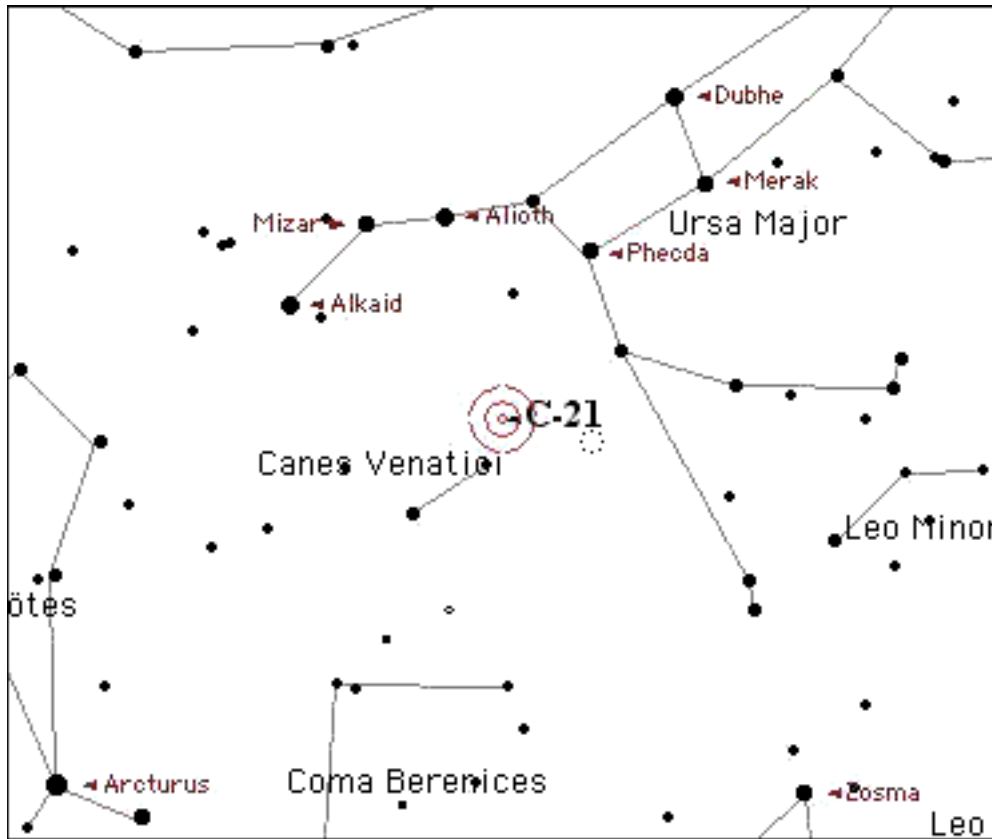
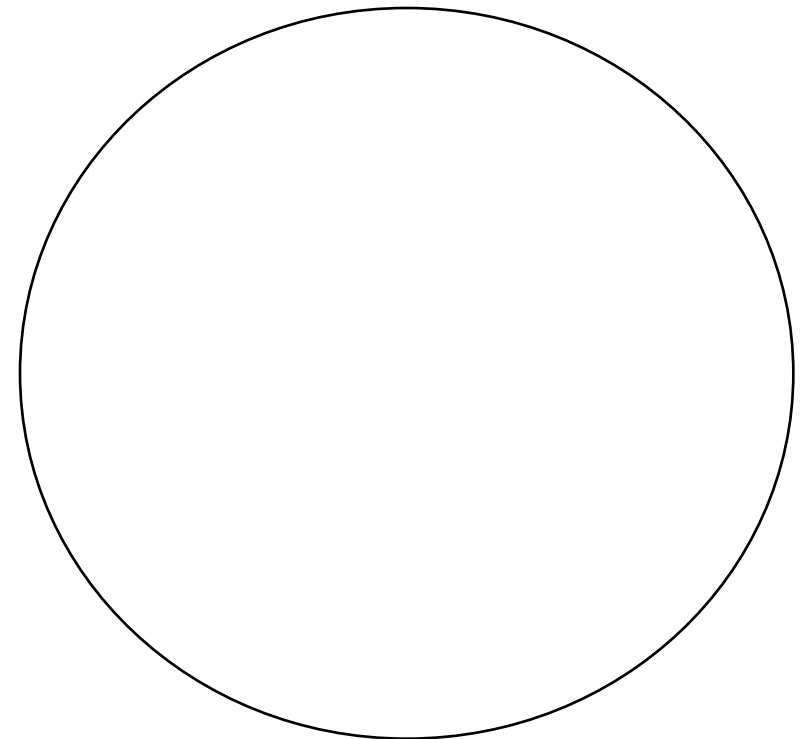
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 022

Name/Designation C-22 (Blue Snowball)
NGC # 7662

Seen?
Date

Type Planetary Nebula
Constellation Andromeda
Magnitude 8.3
RA 23 25.9
Dec +42 33

Hemisphere Either
Season Winter

Size 0.3 / 2.2

Sky Atlas 2000 page 9 *Other Chart Page(s)*

Description

Observing Notes

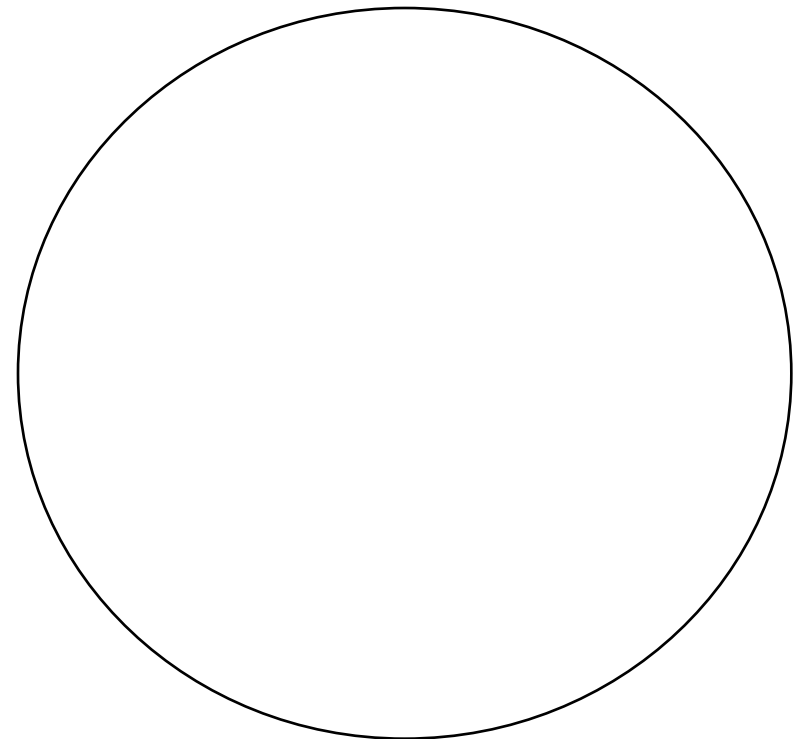
Viewing Time Comments

Observing Site

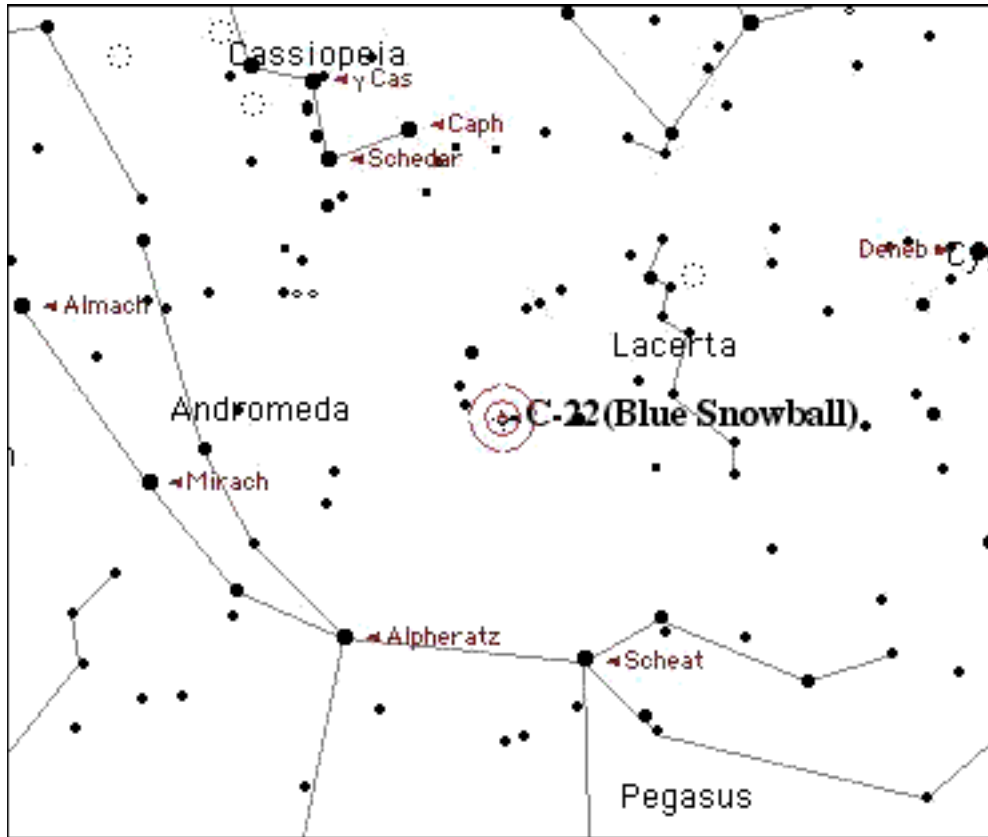
Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 023

Name/Designation C-23
NGC # 891

Seen?
Date

Type Galaxy
Constellation Andromeda
Hemisphere Either
Season Winter
Magnitude 9.9 Size 14 X 2
RA 02 22.6 Dec +42 21

Sky Atlas 2000 page 4 Other Chart Page(s)

Description

Observing Notes

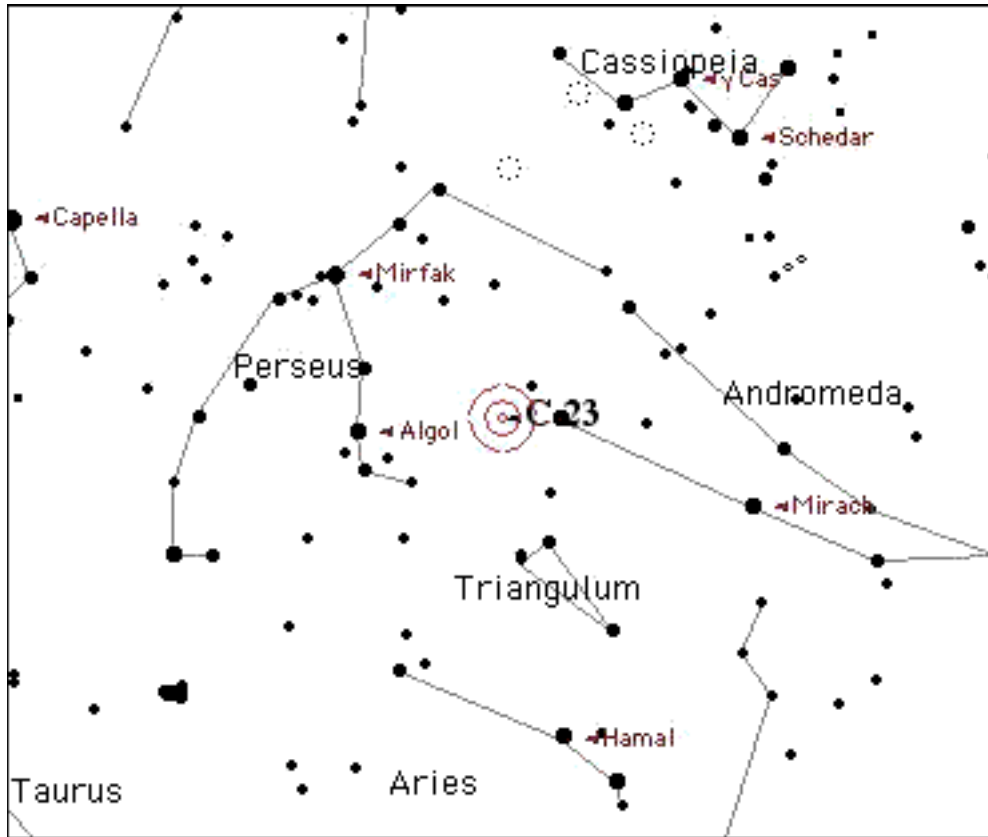
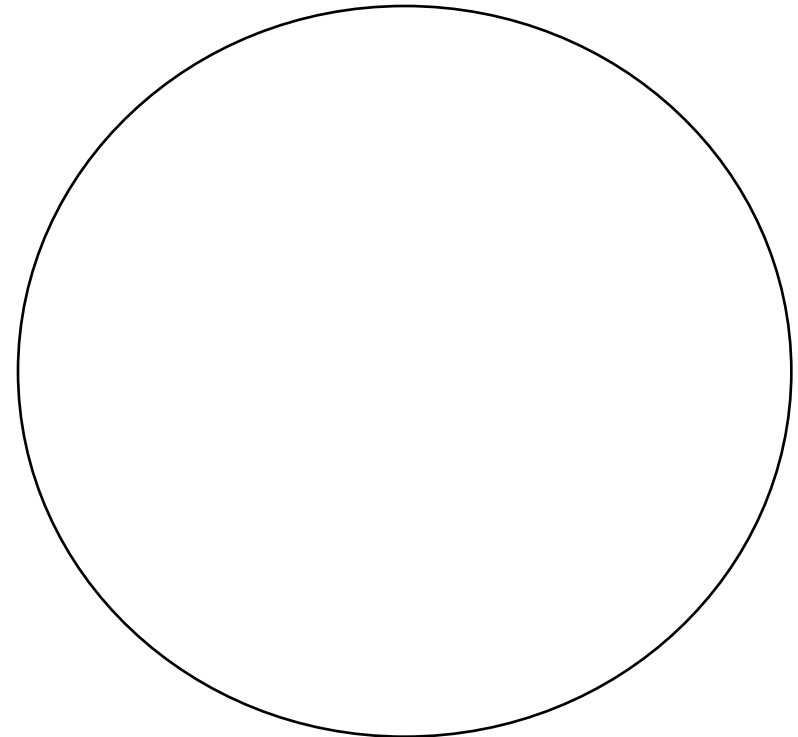
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 024

Name/Designation C-24 (Perseus A)
NGC # 1275

Seen?
Date

Type Galaxy
Constellation Perseus
Magnitude 11.6
RA 03 19.8
Size 2.6 X 1
Dec +41 31

Hemisphere Either
Season Winter

Sky Atlas 2000 page 1 **Other Chart Page(s)**

Description

Observing Notes

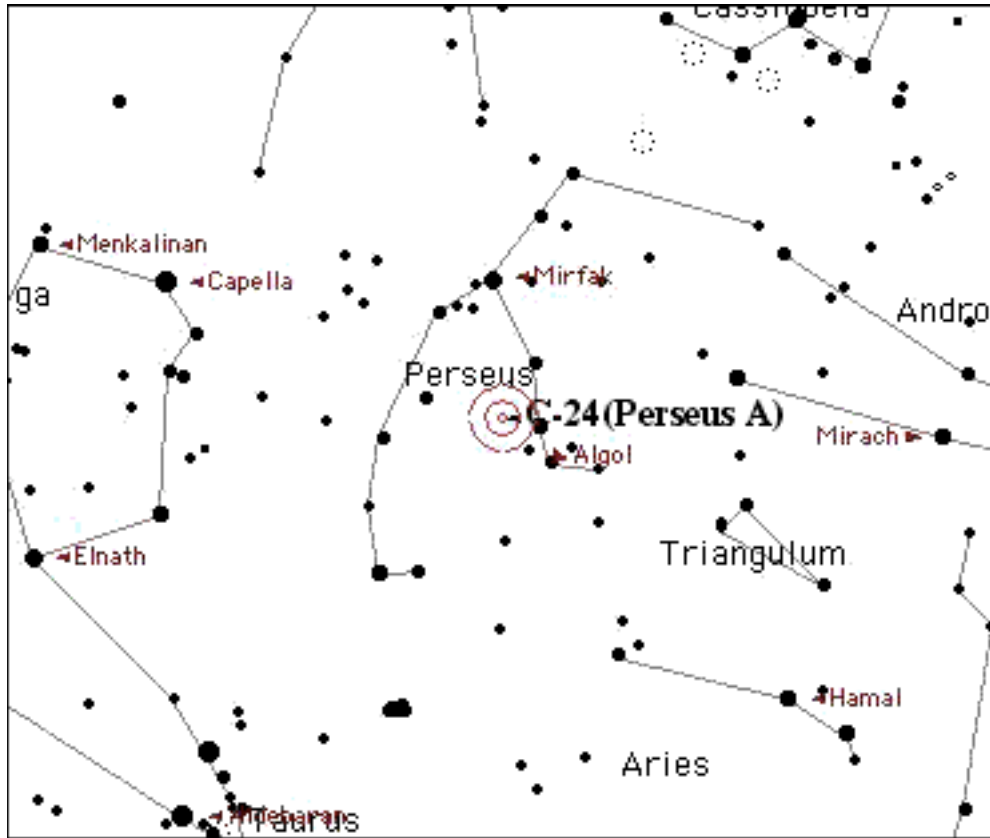
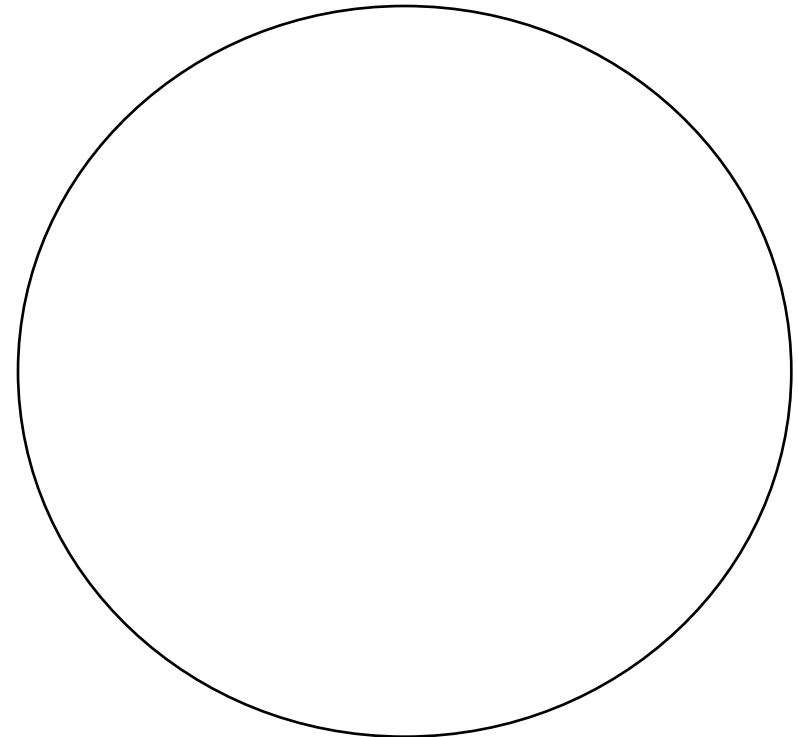
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 025

Name/Designation C-25 (Intergalactic Wanderer)
NGC # 2419

Seen?
Date

Type Globular Cluster

Hemisphere Either

Constellation Lynx

Season Early Spring

Magnitude 10.4 **Size** 4.1

RA 07 38.1 **Dec** +38 53

Sky Atlas 2000 page 5 **Other Chart Page(s)**

Description

Observing Notes

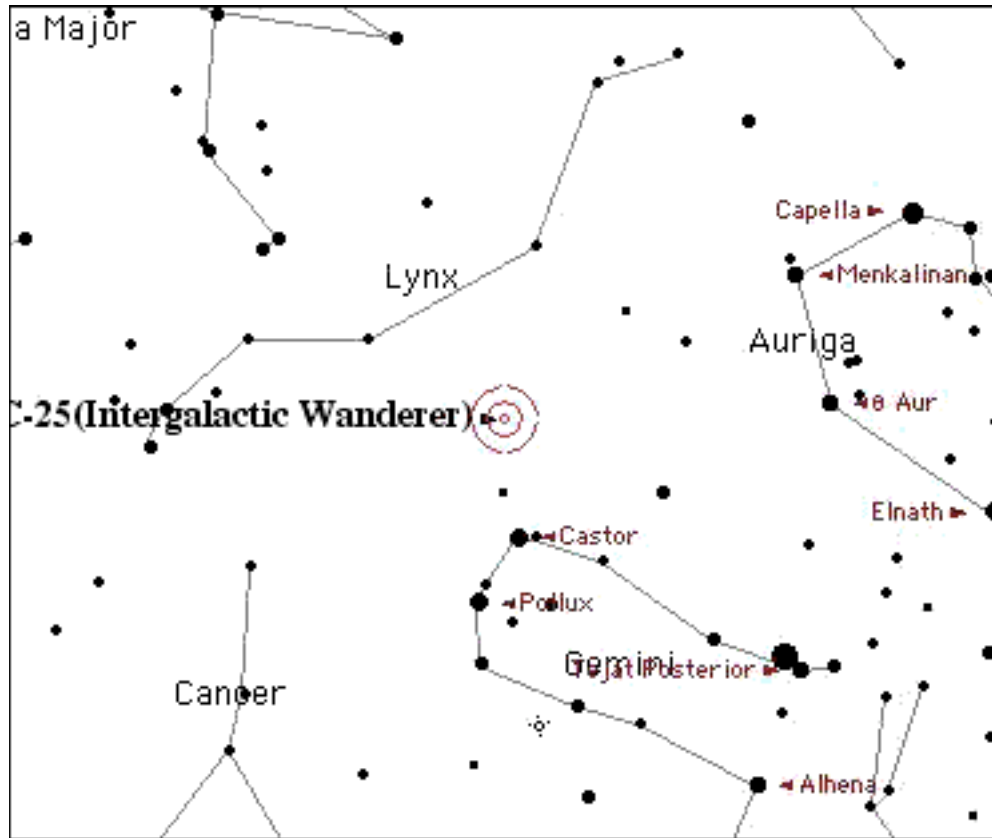
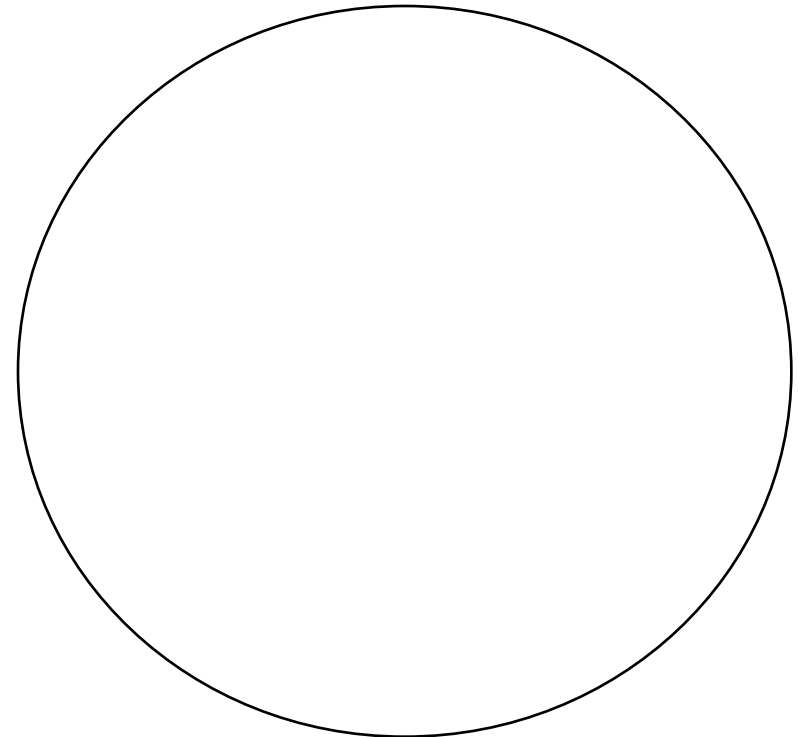
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 026

Name/Designation C-26
NGC # 4244

Seen?
Date

Type Galaxy
Constellation Canes Venatici
Magnitude 10.2 Size 16 X 2.5
RA 12 17.5 Dec +37 49

Hemisphere Northern
Season Early Spring

Sky Atlas 2000 page 7 Other Chart Page(s)

Description

Observing Notes

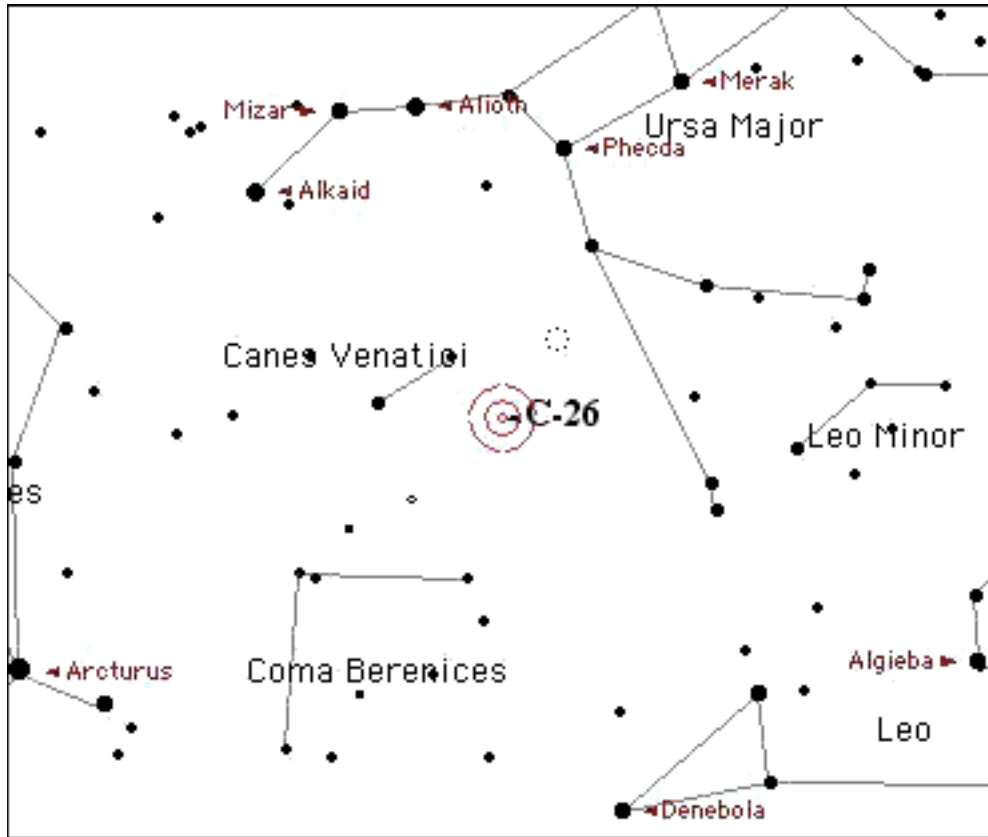
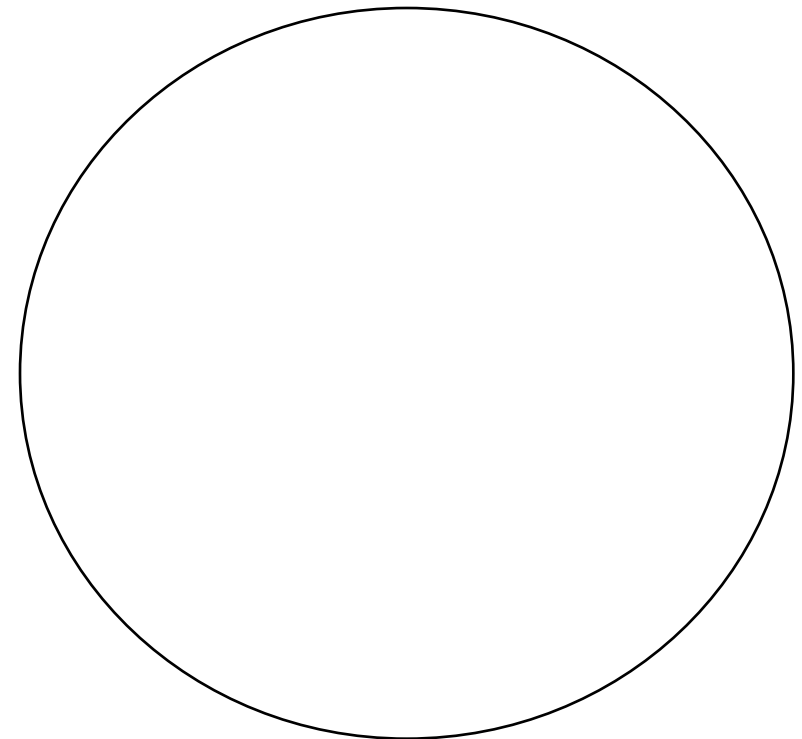
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 027

Name/Designation C-27 (Crescent Nebula)
NGC # 6888

Seen?
Date

Type Diffuse Nebula **Hemisphere** Northern
Constellation Cygnus **Season** Late Summer
Magnitude **Size** 20 X 10
RA 20 12.0 **Dec** +38 21

Sky Atlas 2000 page 9 **Other Chart Page(s)**

Description

Observing Notes

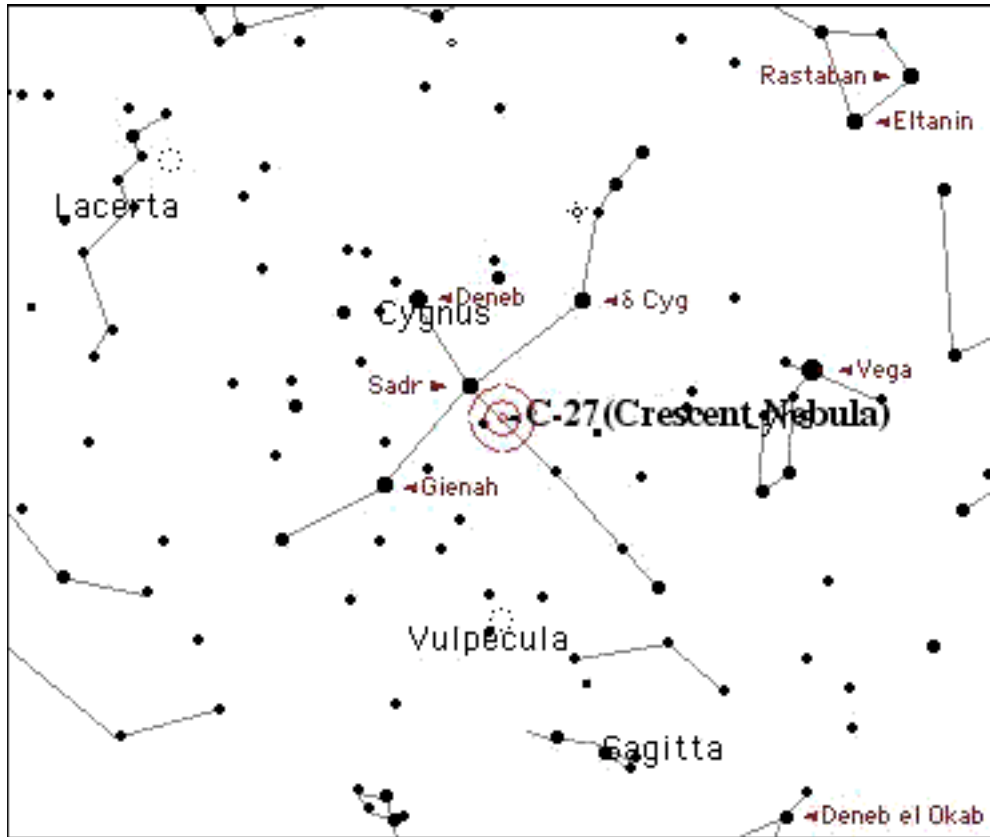
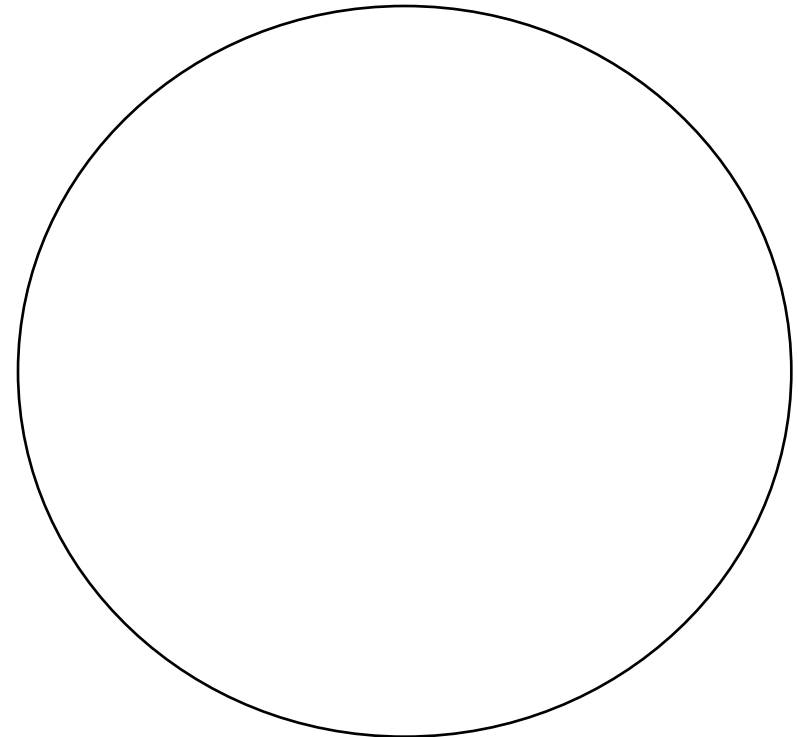
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 028

Name/Designation C-28
NGC # 752

Seen?
Date

Type Open Cluster
Constellation Andromeda
Hemisphere Either
Season Winter
Magnitude 5.7 Size 50
RA 01 57.8 Dec +37 41

Sky Atlas 2000 page 4 Other Chart Page(s)
Description

Observing Notes

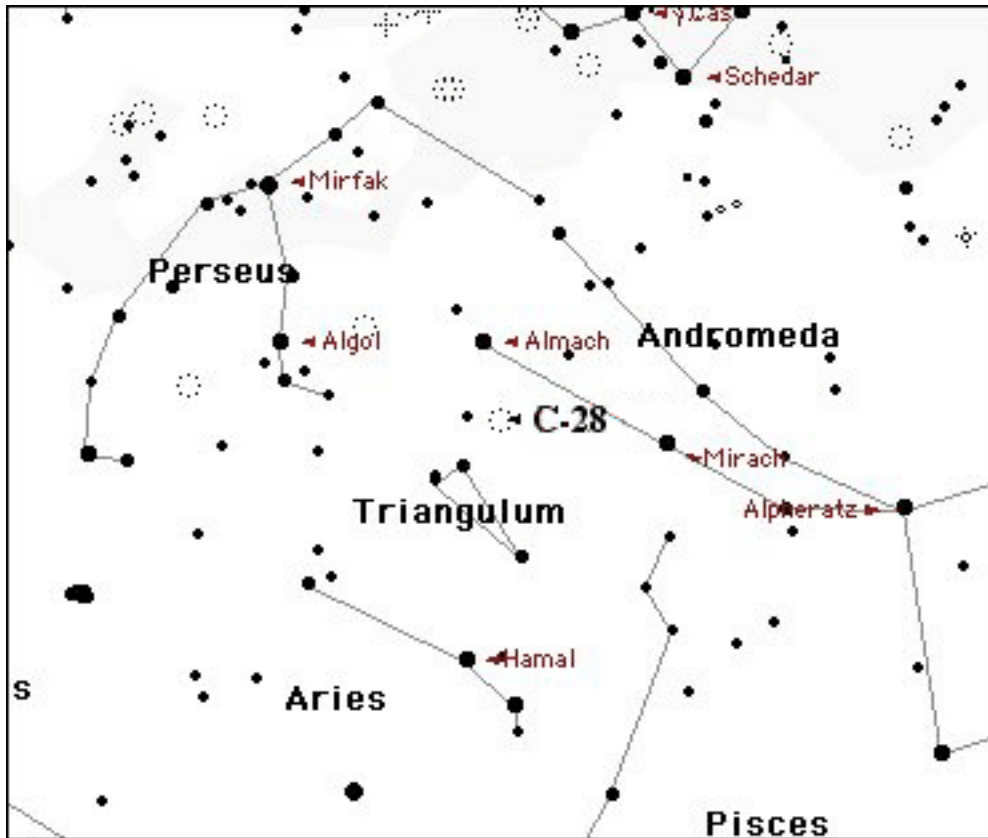
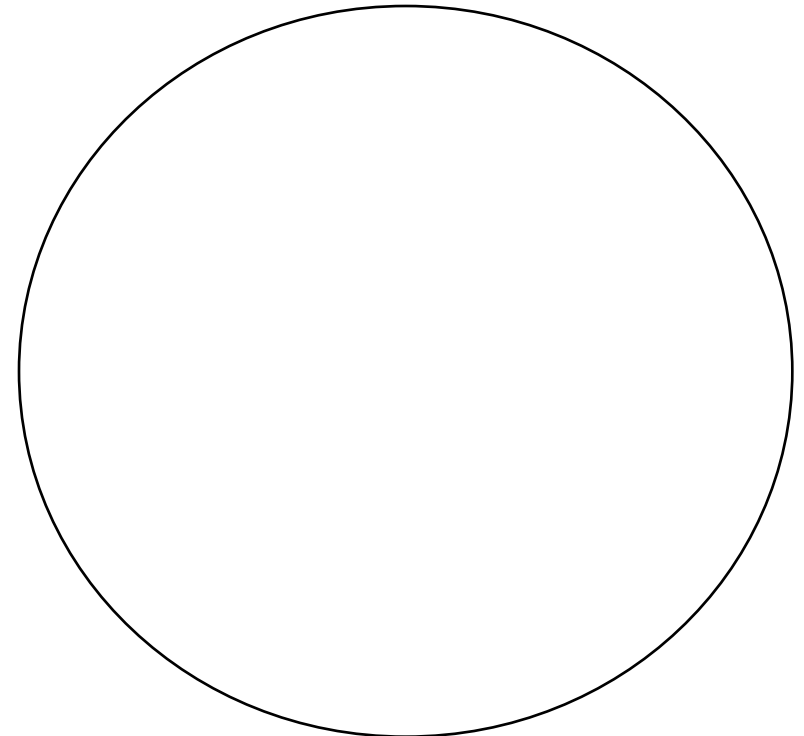
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 029

Name/Designation C-29
NGC # 5005

Seen?
Date

Type Galaxy
Constellation Canes Venatici
Magnitude 9.8 Size 5.4 X 2
RA 13 10.9 Dec +37 03

Hemisphere Northern
Season Early Spring

Observing Notes

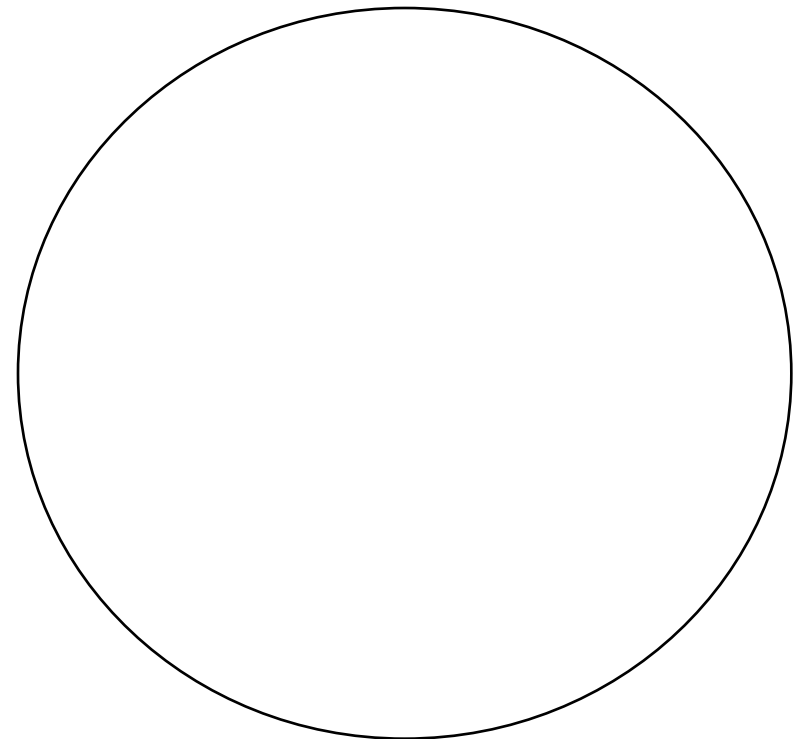
Viewing Time Comments

Observing Site

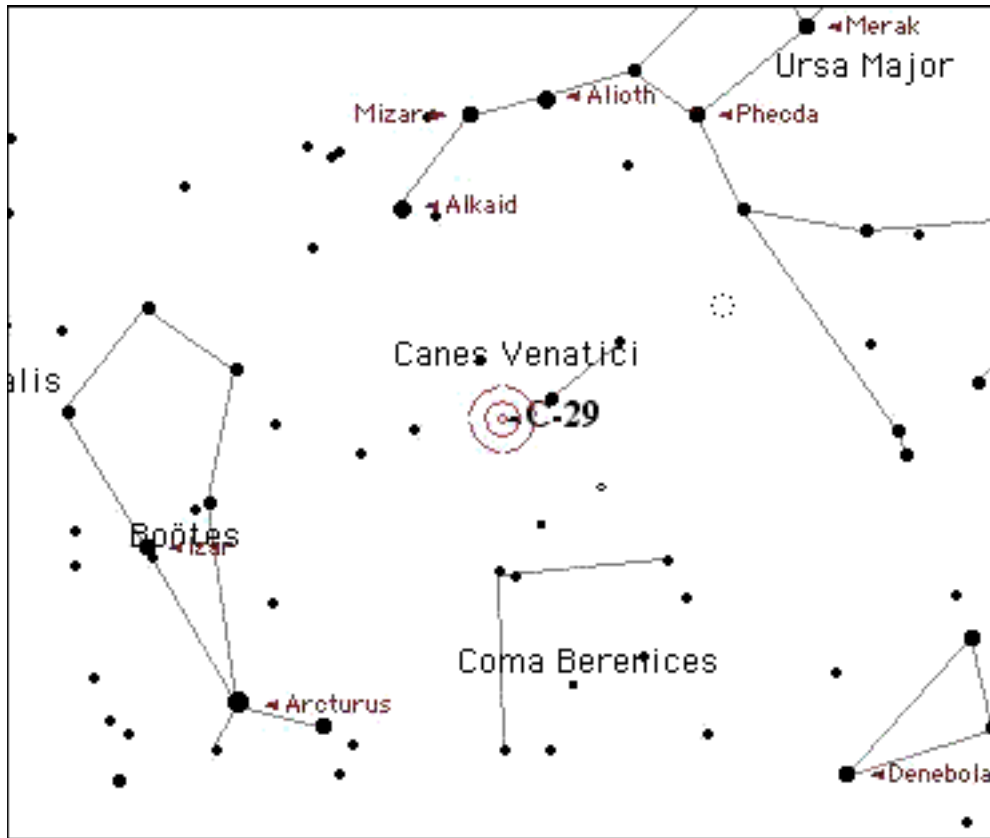
Equipment

Sky : Seeing Transparency

Comments



Sky Atlas 2000 page 7 Other Chart Page(s)
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 030

Name/Designation C-30
NGC # 7331

Seen?
Date

Type Galaxy
Constellation Pegasus
Magnitude 9.5 Size 11 X 4
RA 22 37.1 Dec +34 25

Hemisphere Either
Season Fall/Early Winter

Sky Atlas 2000 page 9 Other Chart Page(s)

Description

Observing Notes

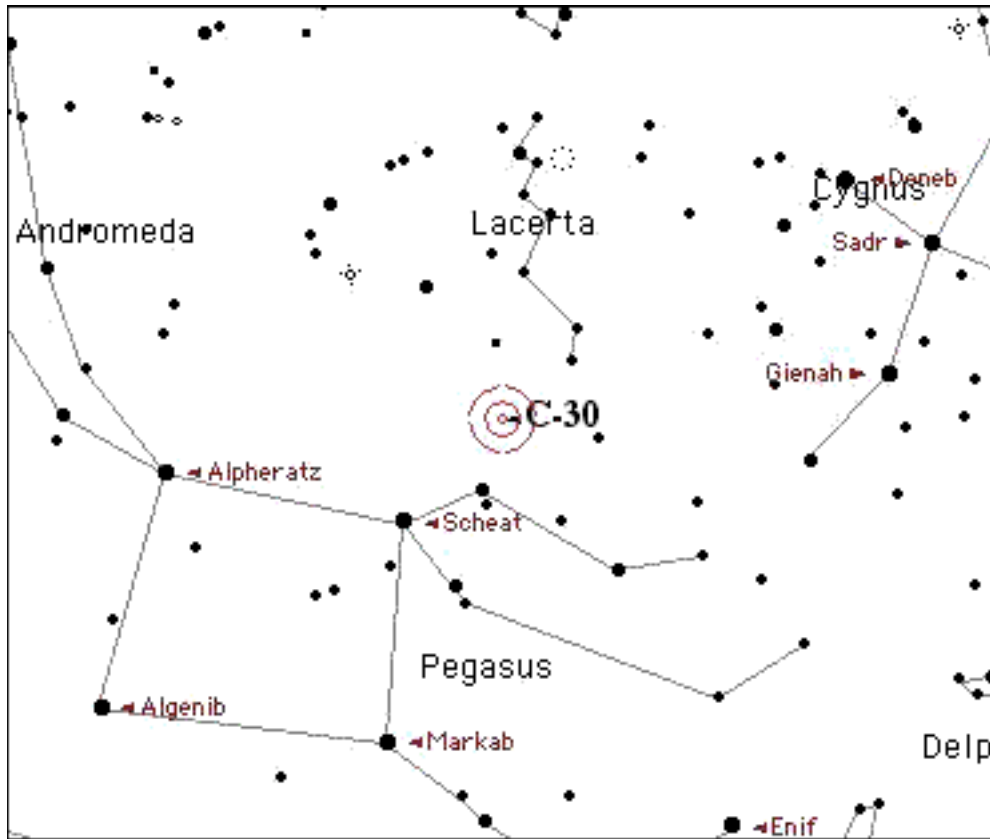
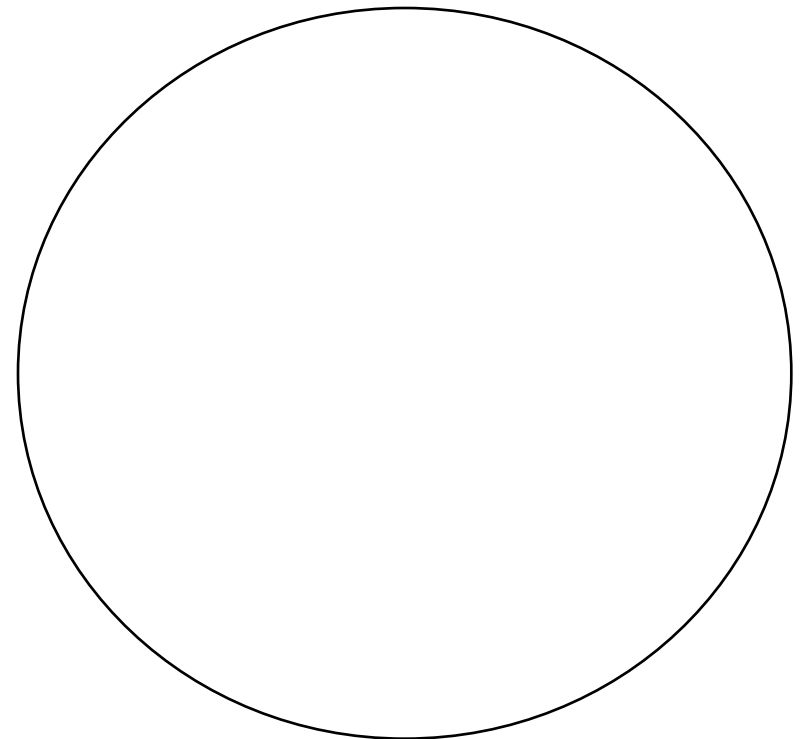
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Caldwell# 031

Name/Designation
NGC #

C-31 (Flaming Star Nebula)
IC 405

Seen?
Date

Type Diffuse Nebula

Hemisphere Either

Constellation Auriga

Season Winter

Magnitude *Size* 30 X 19

RA 05 16.2 *Dec* +34 16

Sky Atlas 2000 page 5 *Other Chart Page(s)*

Description

Observing Notes

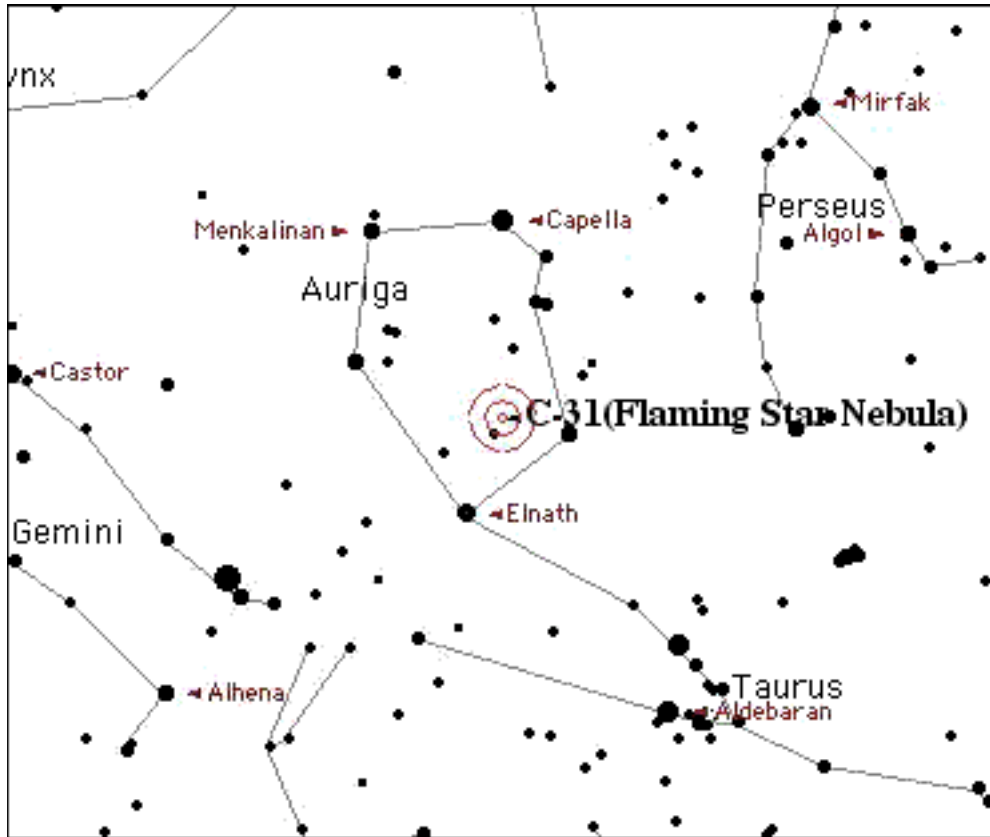
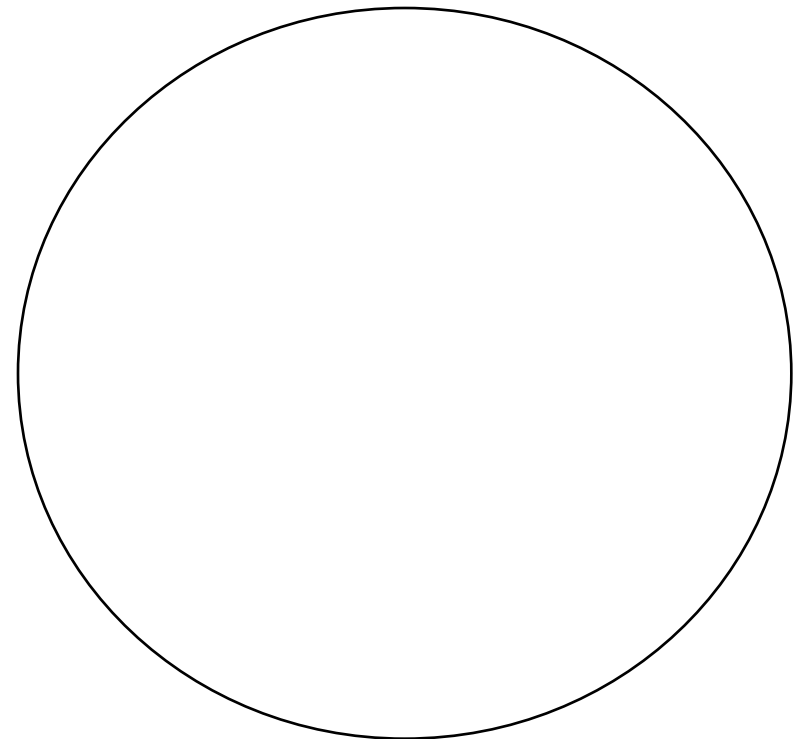
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 032

Name/Designation C-32 (Whale Galaxy)
NGC # 4631

Seen?
Date

Type Galaxy
Constellation Canes Venatici
Magnitude 9.3 **Size** 15 X 3
RA 12 42.1 **Dec** +32 32

Hemisphere Northern
Season Early Spring

Sky Atlas 2000 page 7 **Other Chart Page(s)**

Description

Observing Notes

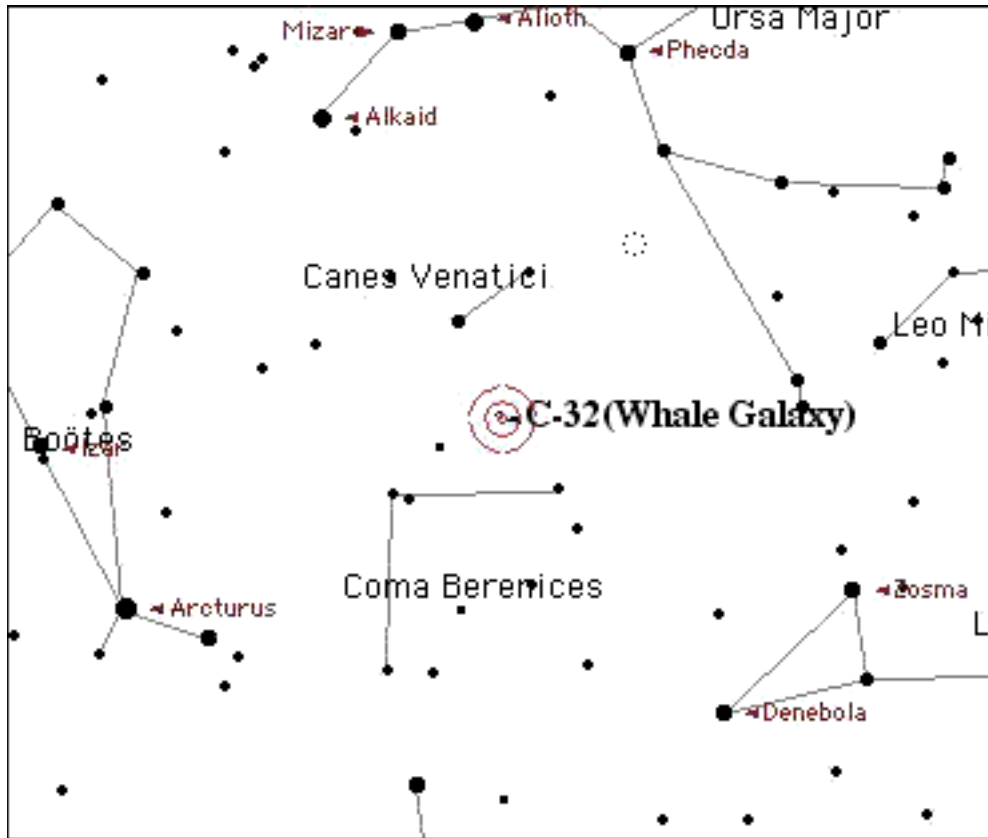
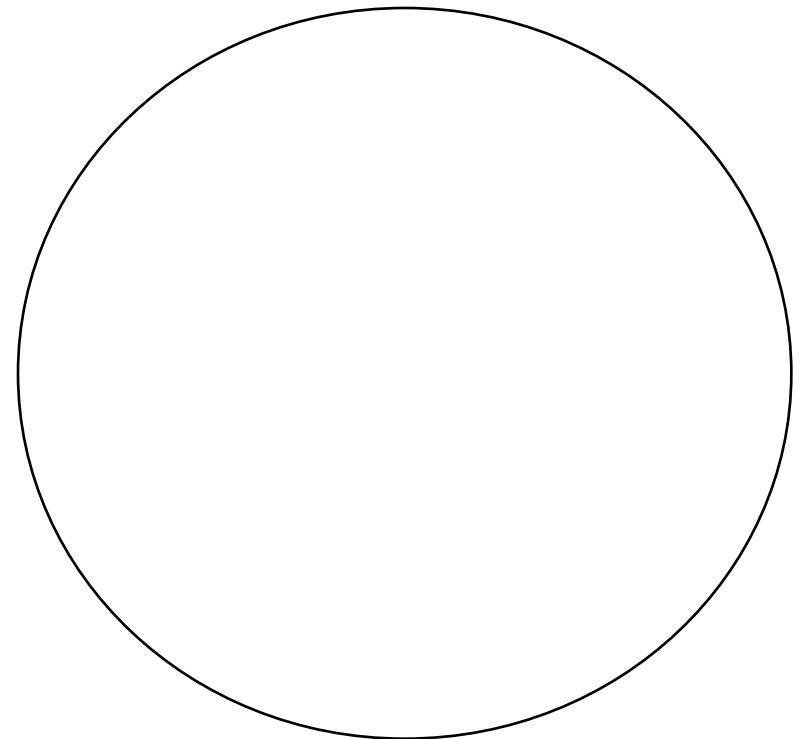
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 033

Name/Designation
NGC #

C-33 (Network Nebula)
6992

Seen?
Date

Type Diffuse Nebula
Constellation Cygnus
Magnitude RA 20 56.4
Size 60 X 8
Dec +31 43

Hemisphere Northern
Season Late Summer

Sky Atlas 2000 page 9 Other Chart Page(s)

Description

Observing Notes

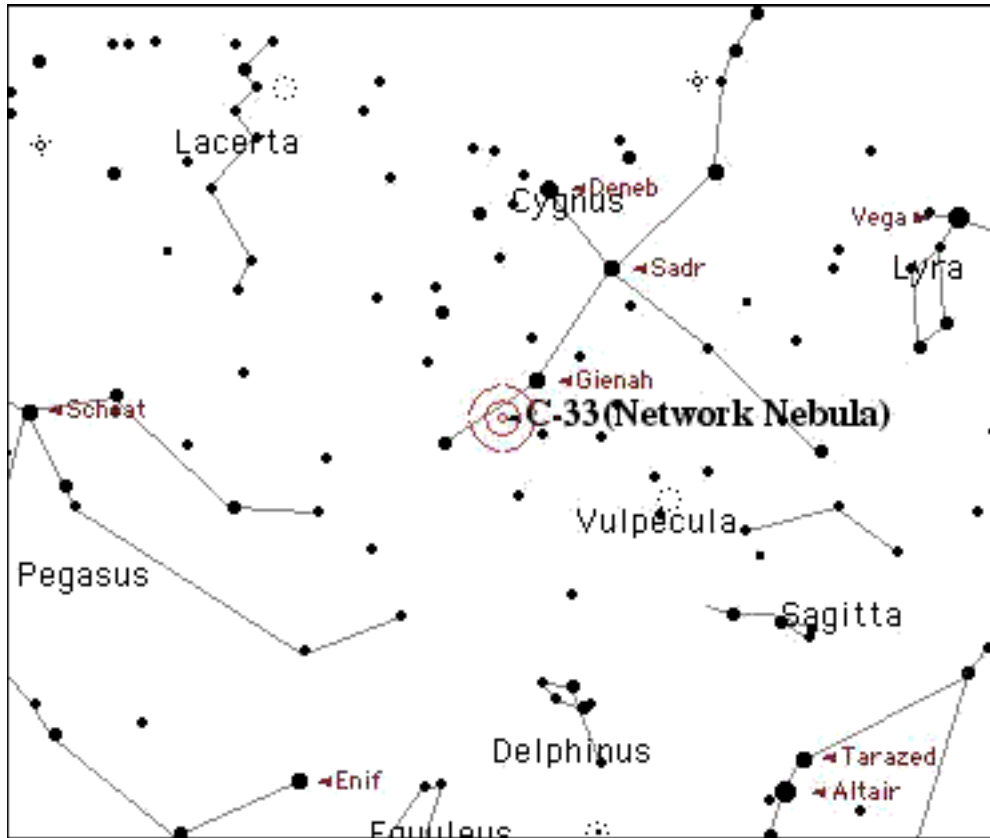
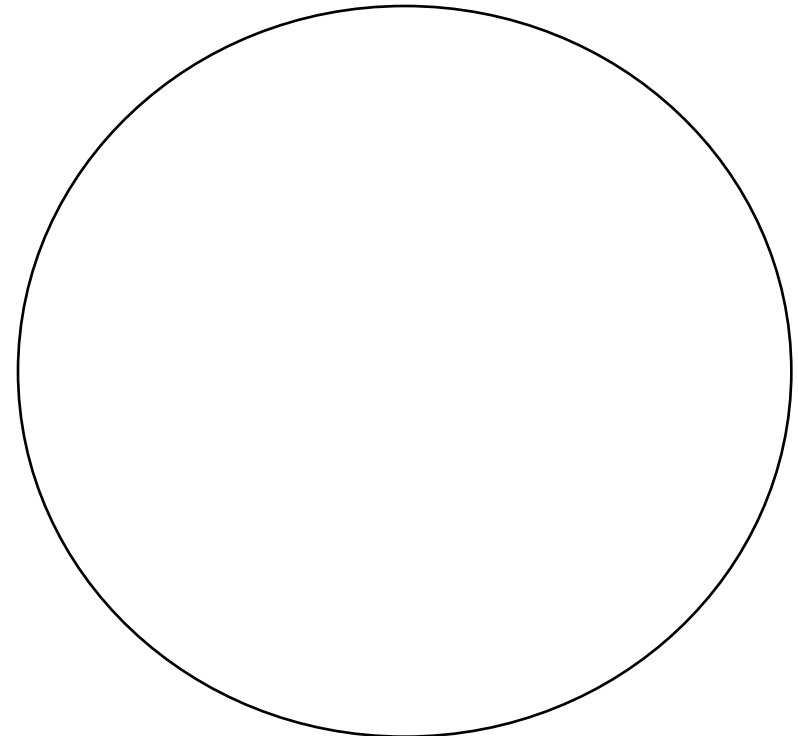
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 034

Name/Designation C-34 (Veil Nebula)
NGC # 6960

Seen?
Date

Type Diffuse Nebula
Constellation Cygnus
Magnitude **Size** 70 X 6
RA 20 45.7 **Dec** +30 43

Hemisphere Northern
Season Late Summer

Sky Atlas 2000 page 9 **Other Chart Page(s)**

Description

Observing Notes

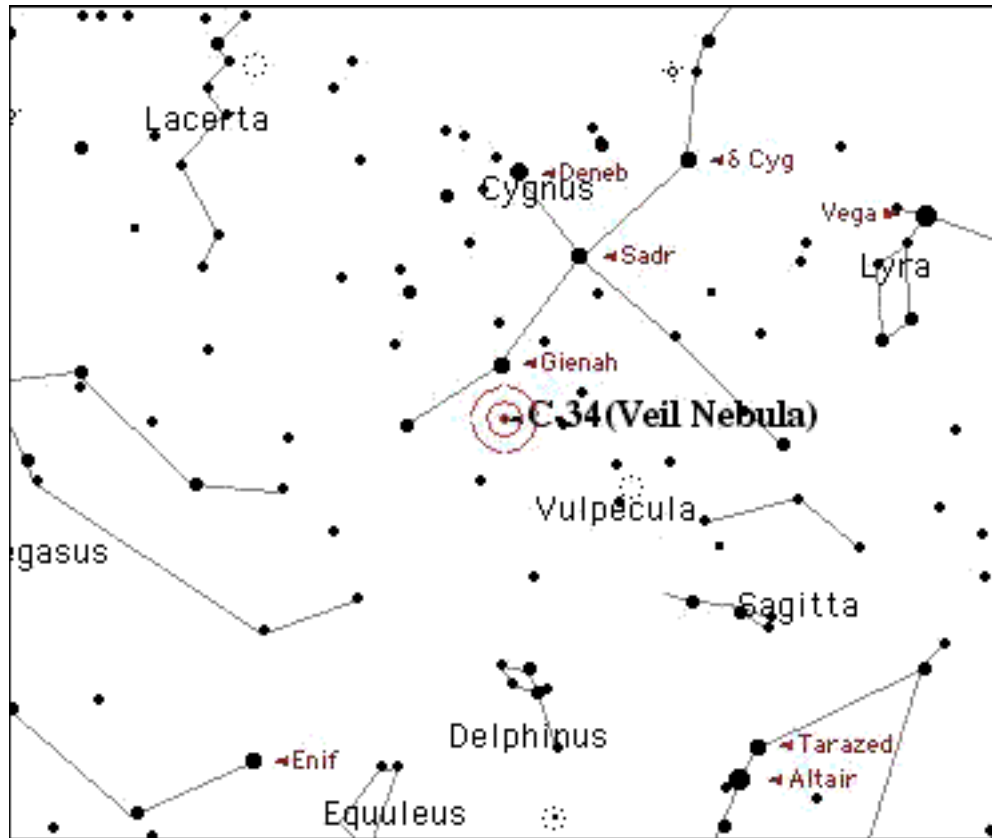
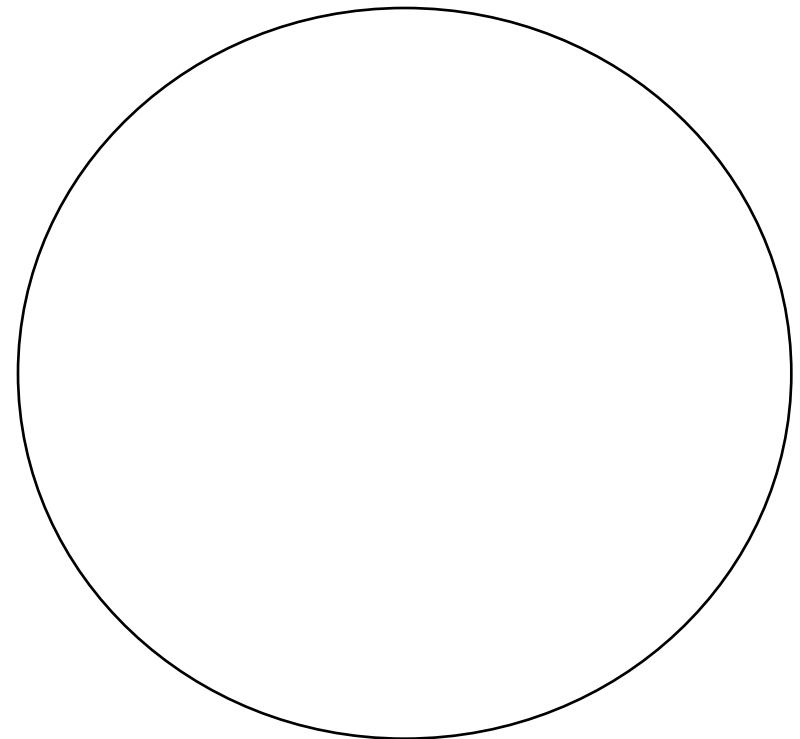
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Caldwell# 035

Name/Designation C-35 (In Coma Cluster)
NGC # 4889

Seen?
Date

Type Galaxy
Constellation Coma Berenices
Magnitude 11.4 **Size** 3 X 2
RA 13 00.1 **Dec** +27 59

Hemisphere Either
Season Late Spring

Sky Atlas 2000 page 7 **Other Chart Page(s)**

Description

Observing Notes

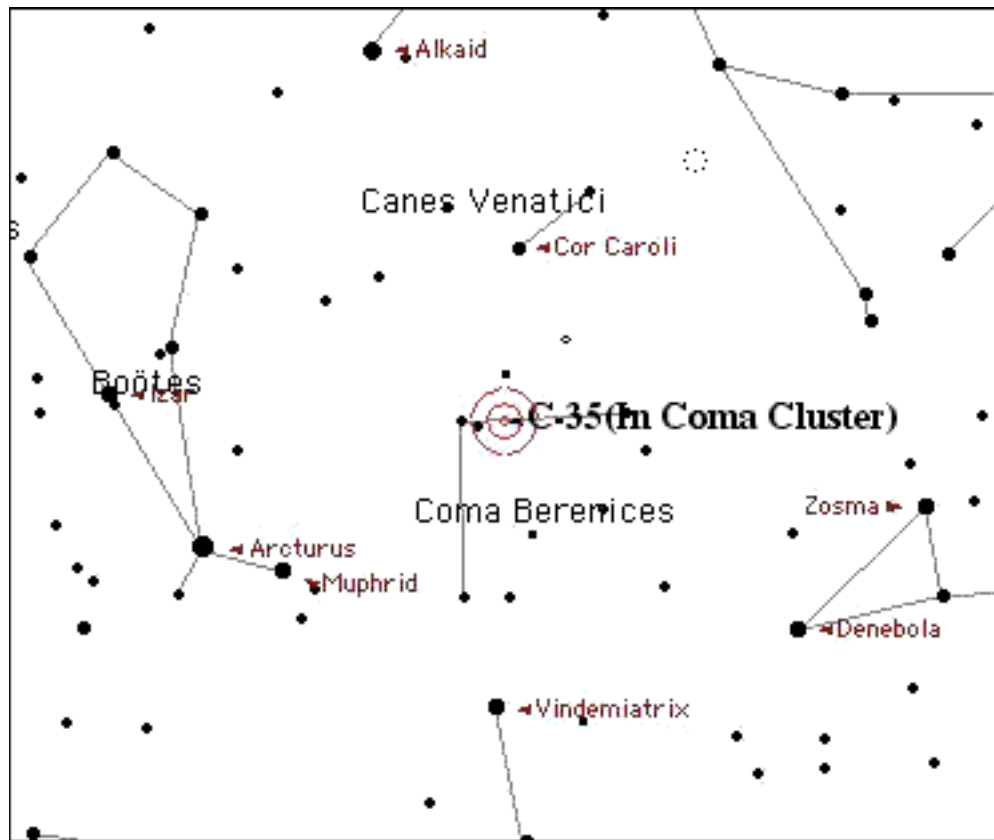
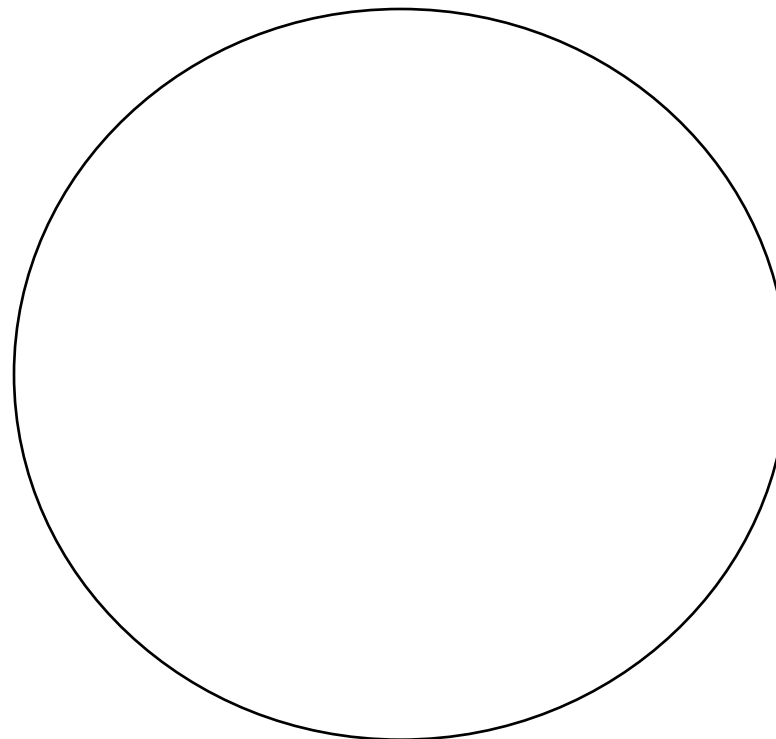
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 036

Name/Designation C-36
NGC # 4559

Seen?
Date

Type Galaxy
Constellation Coma Berenices
Magnitude 9.8 *Size* 10 X 4
RA 12 36.0 *Dec* +27 58

Hemisphere Either
Season Late Spring

Sky Atlas 2000 page 7 *Other Chart Page(s)*

Description

Observing Notes

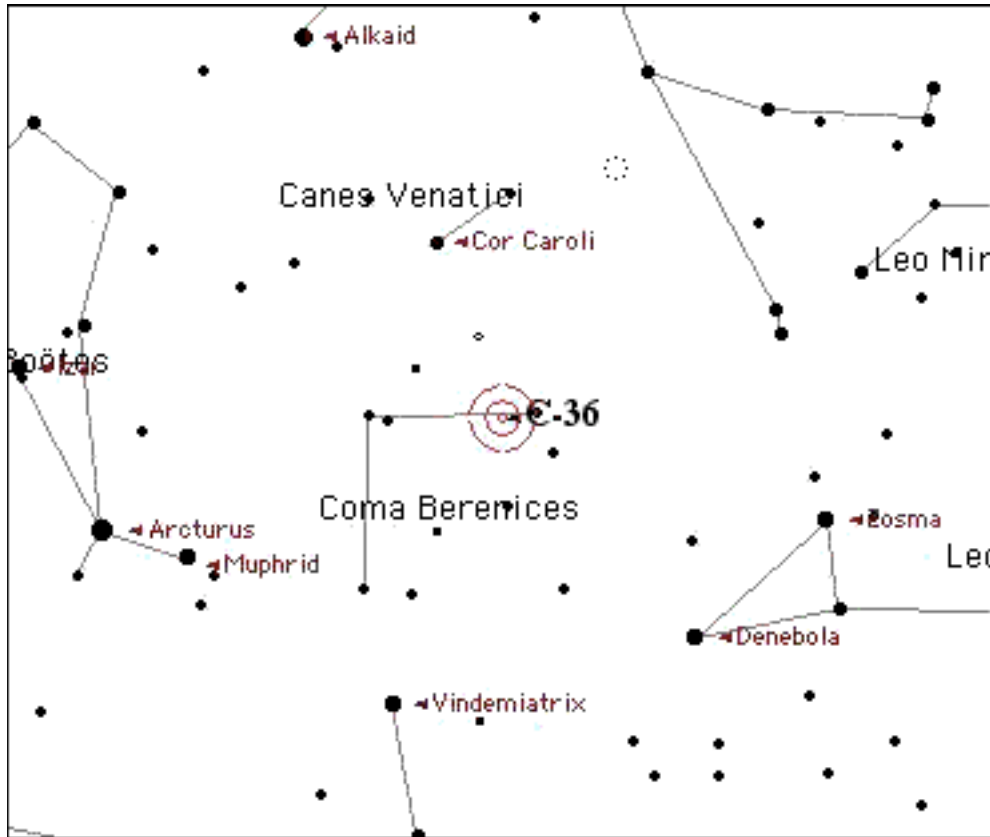
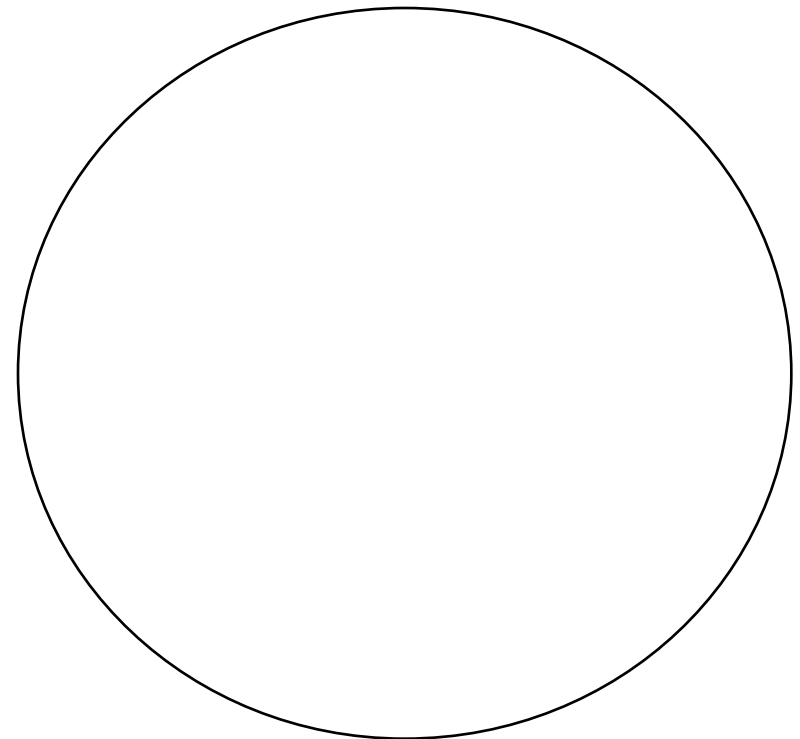
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 037

Name/Designation C-37
NGC # 6885

Seen?
Date

Type Open Cluster
Constellation Vulpecula
Magnitude 5.9 Size 7
RA 20 12.0 Dec +26 29

Hemisphere Northern
Season Fall/Early Winter

Sky Atlas 2000 page 9 Other Chart Page(s)

Description

Observing Notes

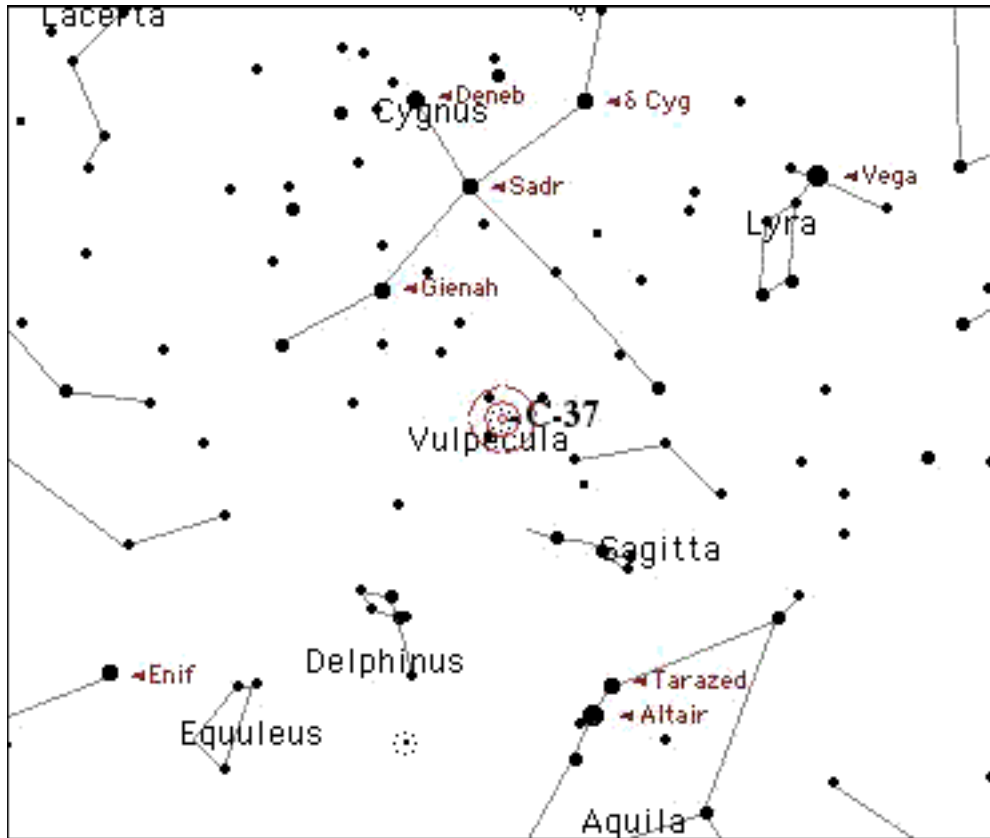
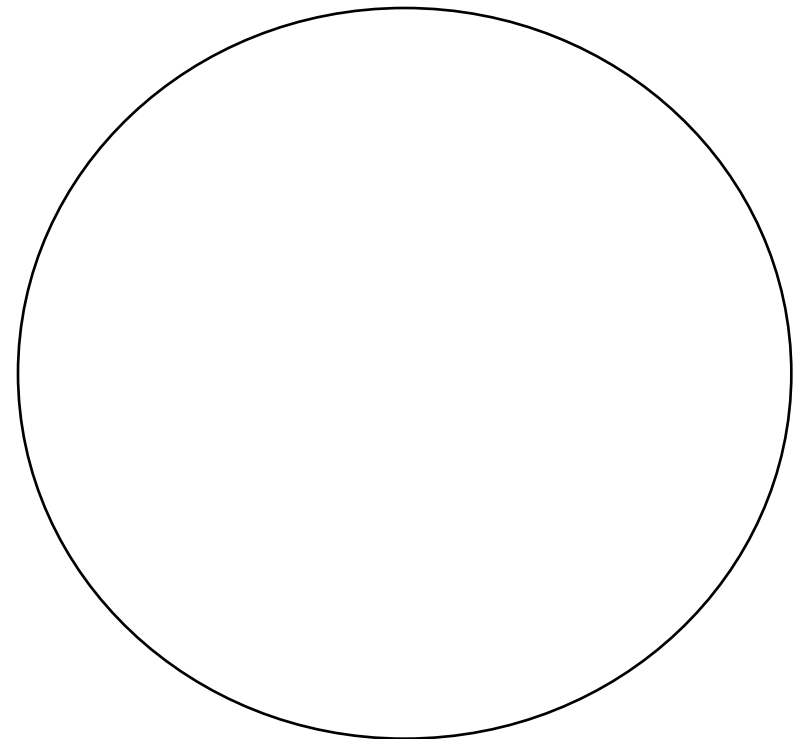
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 038

Name/Designation C-38
NGC # 4565

Seen?
Date

Type Galaxy
Constellation Coma Berenices
Magnitude 9.6 **Size** 16 X 3
RA 12 36.3 **Dec** +25 59

Hemisphere Either
Season Late Spring

Sky Atlas 2000 page 7 **Other Chart Page(s)**

Description

Observing Notes

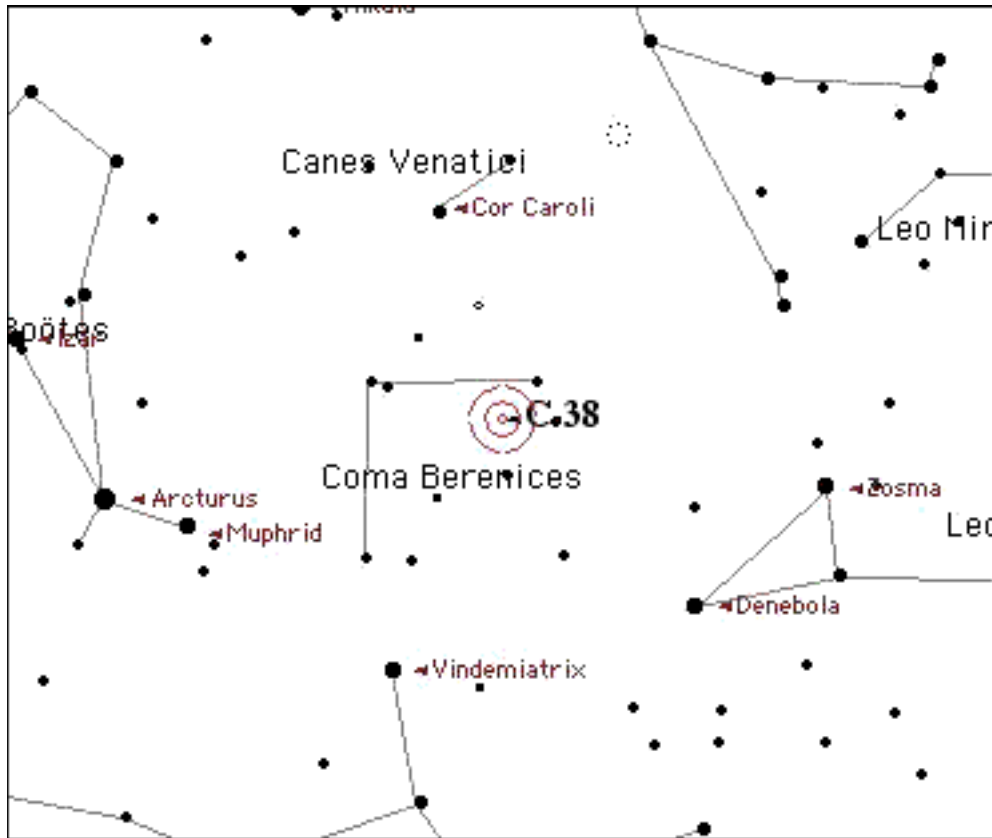
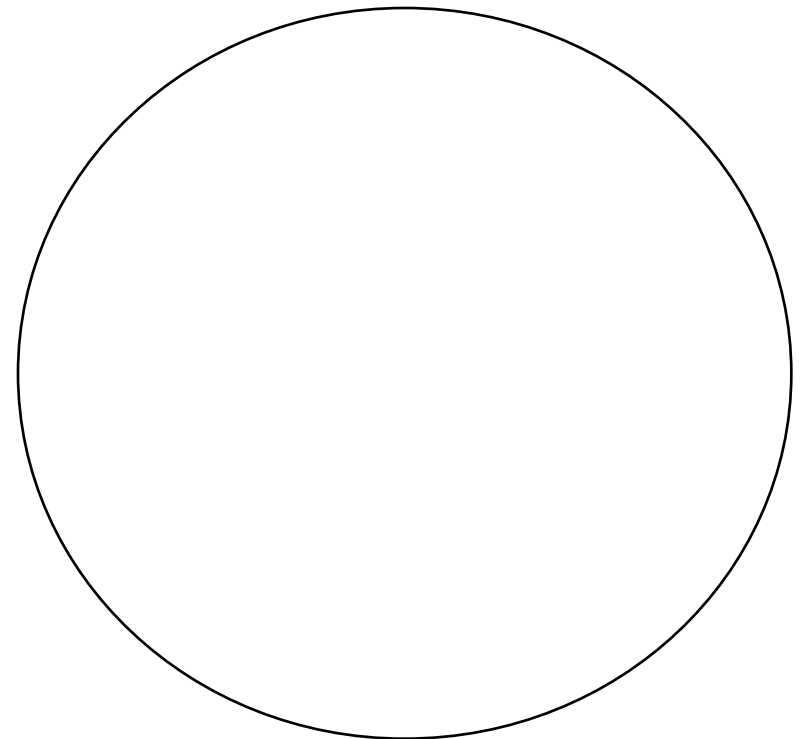
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 039

Name/Designation C-39 (Eskimo Nebula)
NGC # 2392

Seen?
Date

Type Planetary Nebula
Constellation Gemini
Magnitude 9.2 *Size* 0.2 / 0.7
RA 07 29.2 *Dec* +20 55

Hemisphere Either
Season Winter

Sky Atlas 2000 page 5 *Other Chart Page(s)*

Description

Observing Notes

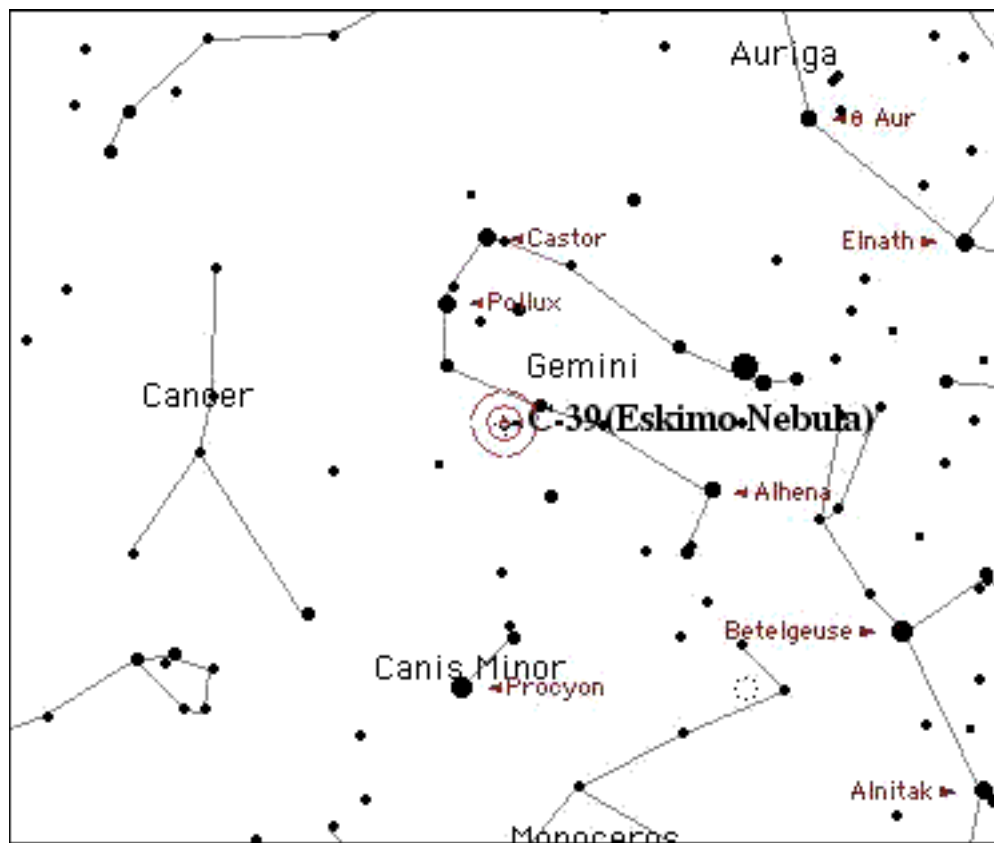
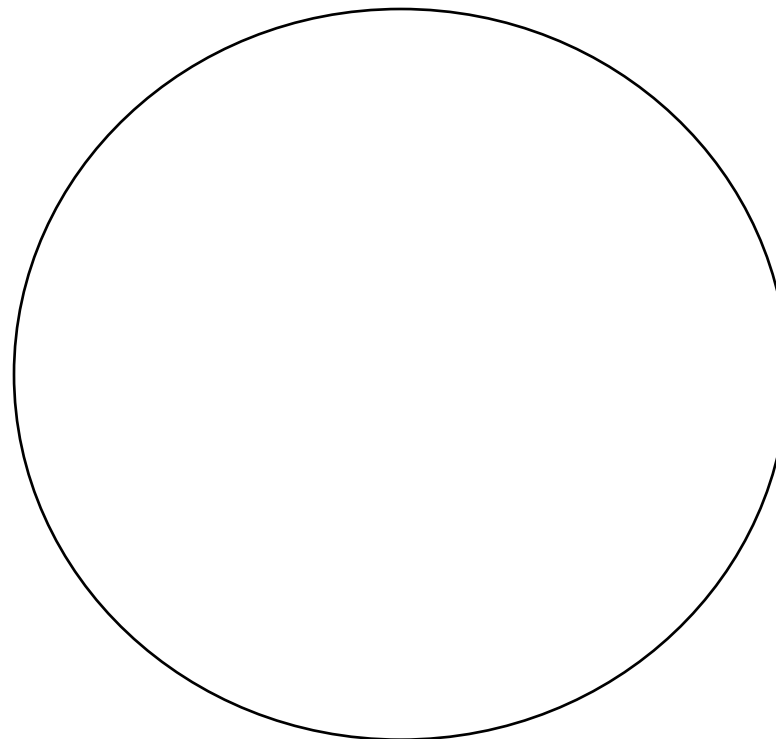
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 040

Name/Designation C-40
NGC # 3626

Seen?
Date

Type Galaxy
Constellation Leo
Magnitude 10.9 Size 3 X 2
RA 11 20.1 Dec +18 21

Hemisphere Either
Season Late Spring

Sky Atlas 2000 page 6 Other Chart Page(s)

Description

Observing Notes

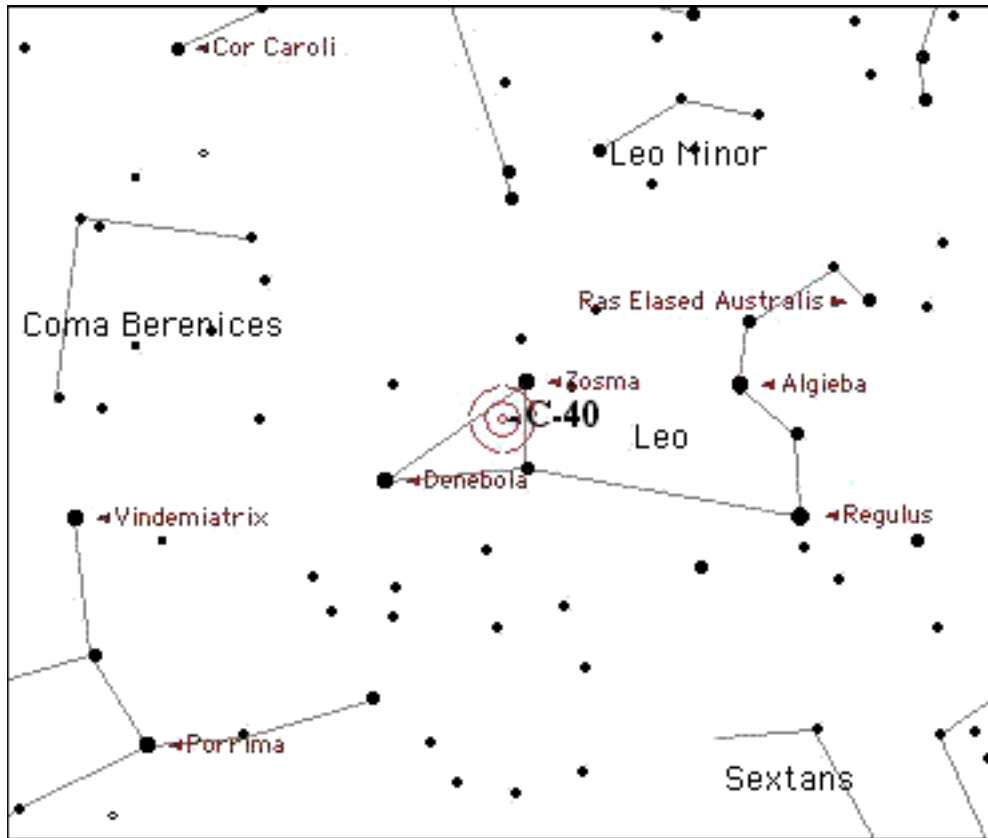
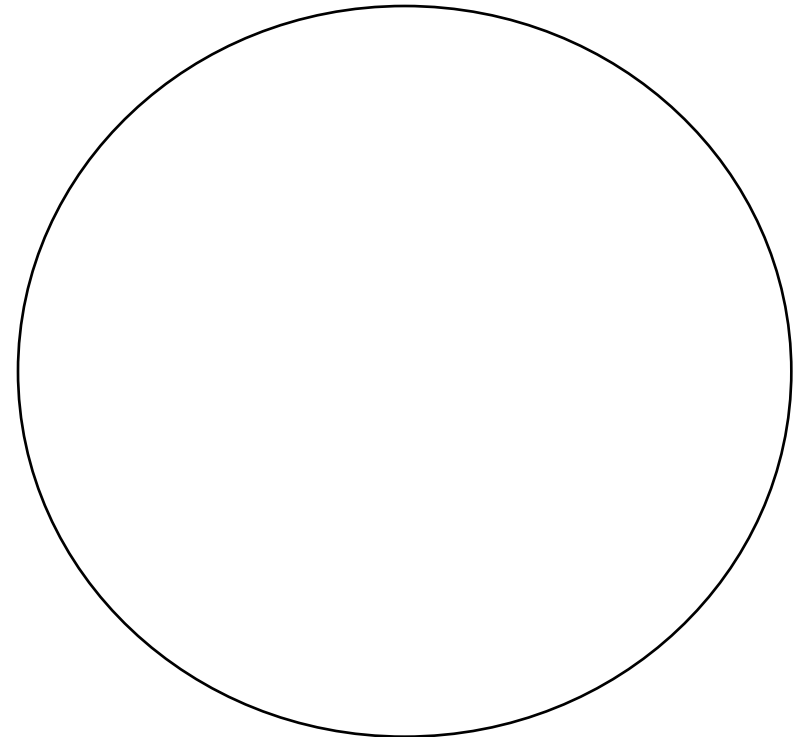
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 041

Name/Designation C-41 (Hyades)
NGC # N/A

Seen?
Date

Type Open Cluster
Constellation Taurus
Magnitude 0.5
RA 04 27.0
Size 330
Dec +16 00

Hemisphere Either
Season Winter

Sky Atlas 2000 page 5 **Other Chart Page(s)**

Description

Observing Notes

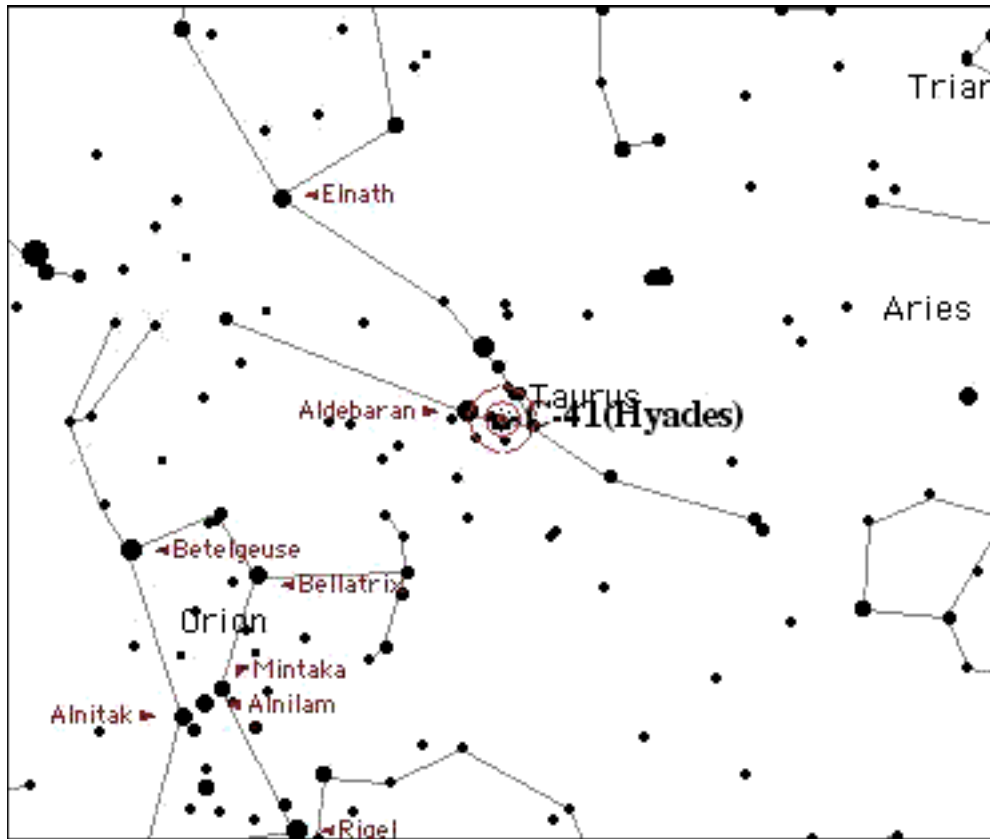
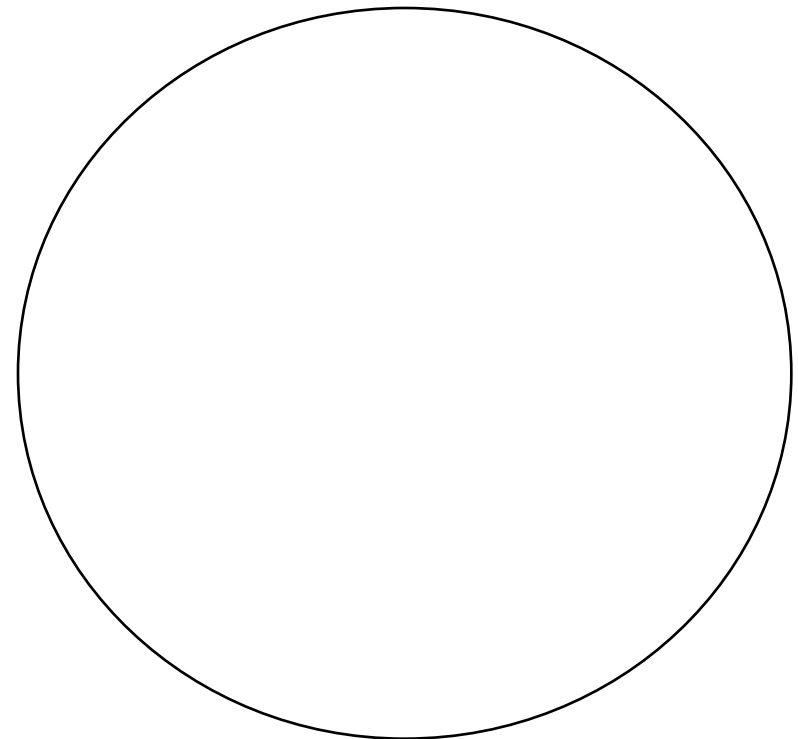
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 042

Name/Designation C-42 (Very distant)
NGC # 7006

Seen?
Date

Type Globular Cluster
Constellation Delphinus
Magnitude 10.6 **Size** 2.8
RA 21 01.5 **Dec** +16 11

Hemisphere Either
Season Mid-Summer

Sky Atlas 2000 page 16 **Other Chart Page(s)**

Description

Observing Notes

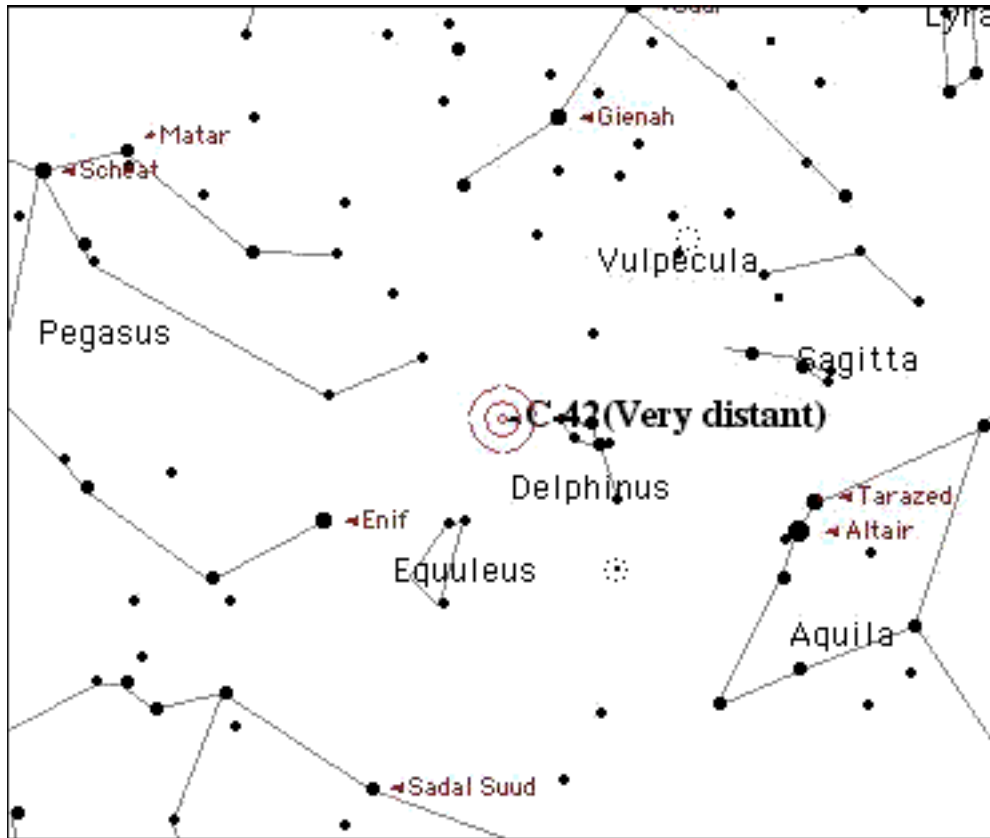
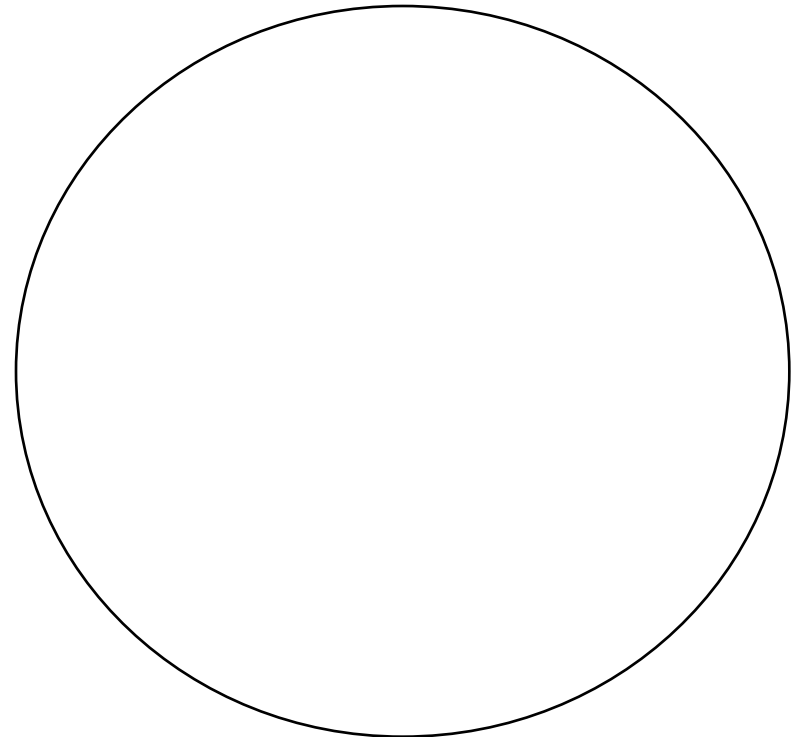
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 043

Name/Designation C-43
NGC # 7814

Seen?
Date

Type Galaxy Hemisphere Either
Constellation Pegasus Season Fall/Early Winter
Magnitude 10.5 Size 6 X 2
RA 00 03.3 Dec +16 09

Sky Atlas 2000 page 17 Other Chart Page(s)

Description

Observing Notes

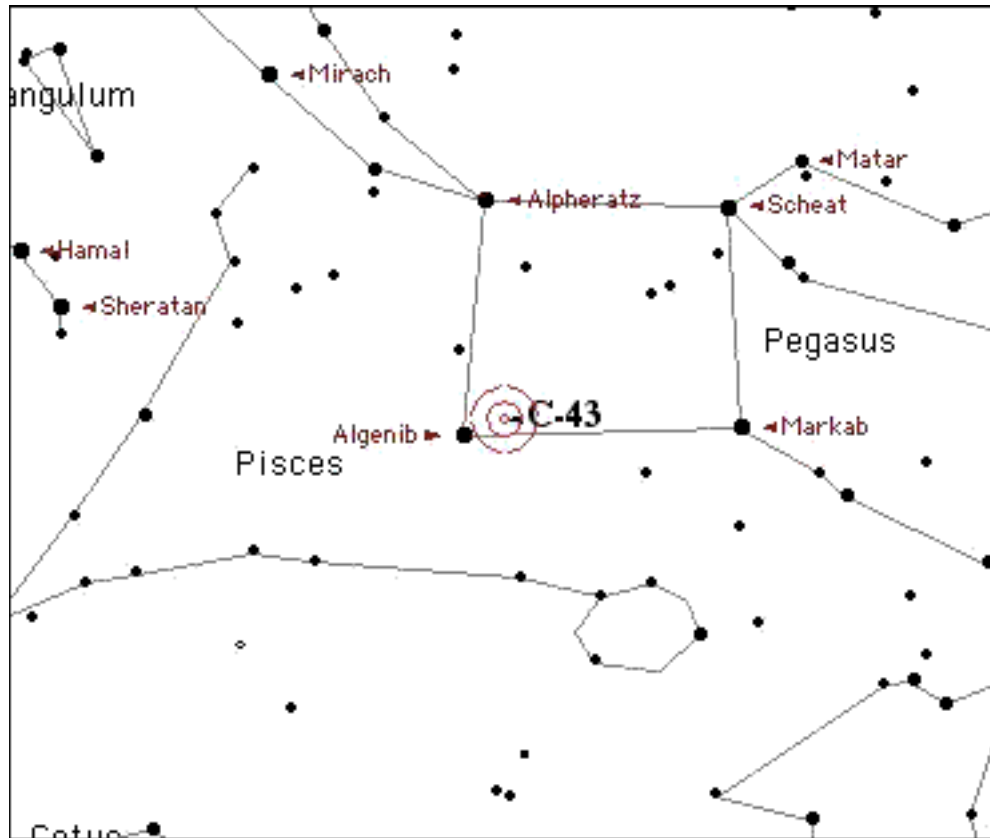
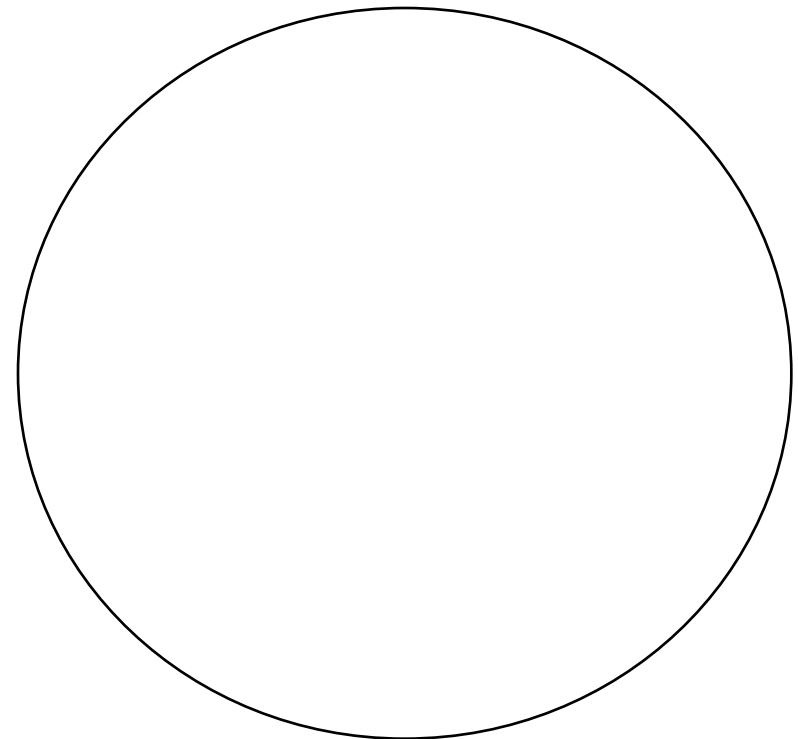
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 044

Name/Designation C-44
NGC # 7479

Seen?
Date

Type Galaxy Hemisphere Either
Constellation Pegasus Season Fall/Early Winter
Magnitude 11 Size 4 X 3
RA 23 04.9 Dec +12 19

Sky Atlas 2000 page 17 Other Chart Page(s)

Description

Observing Notes

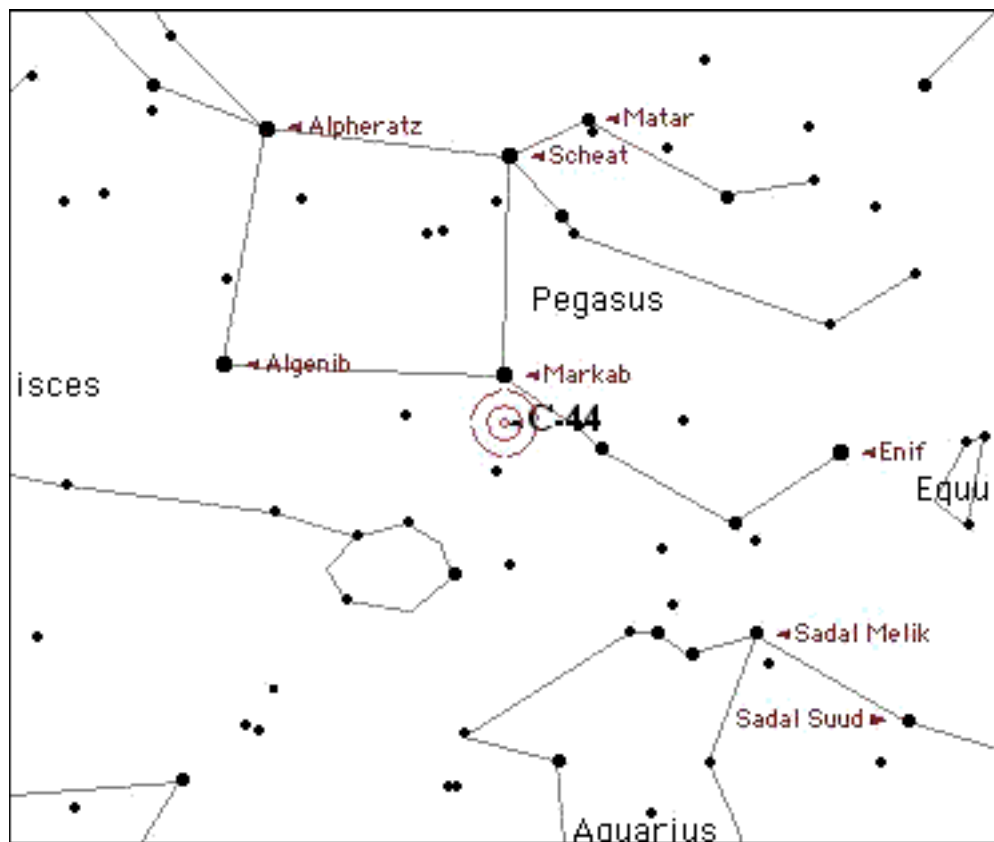
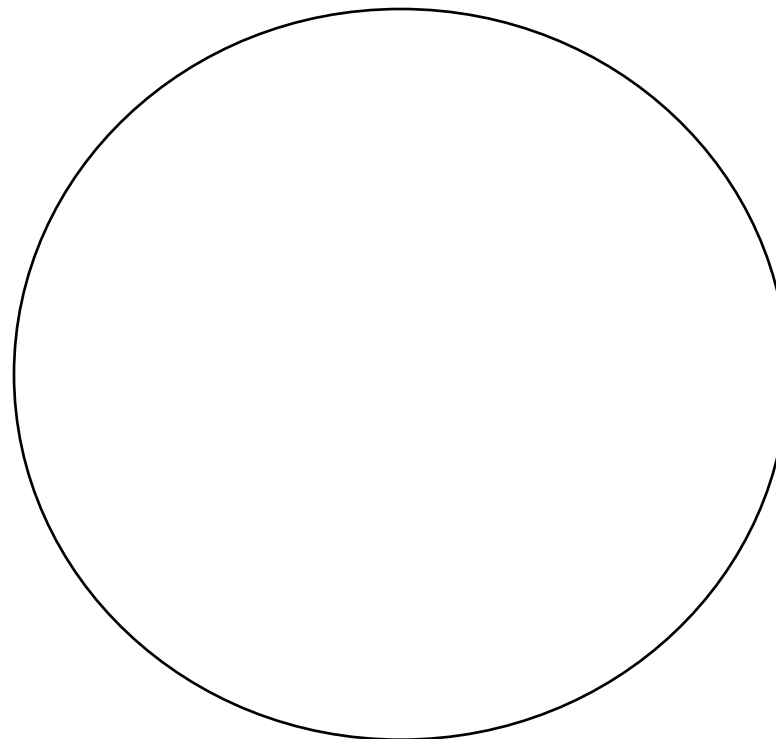
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 045

Name/Designation C-45
NGC # 5248

Seen?
Date

Type Galaxy
Constellation Bootes
Magnitude 10.2 Size 6 X 4
RA 13 37.5 Dec +08 53

Hemisphere Either
Season Late Spring

Sky Atlas 2000 page 14 Other Chart Page(s)

Description

Observing Notes

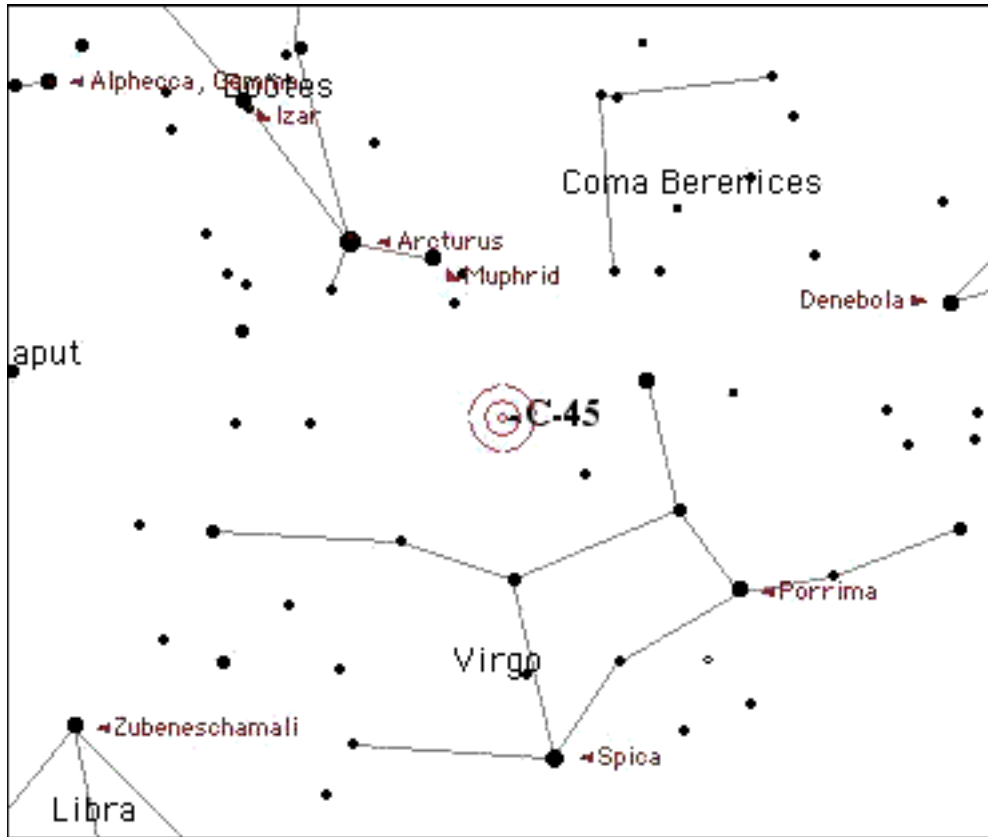
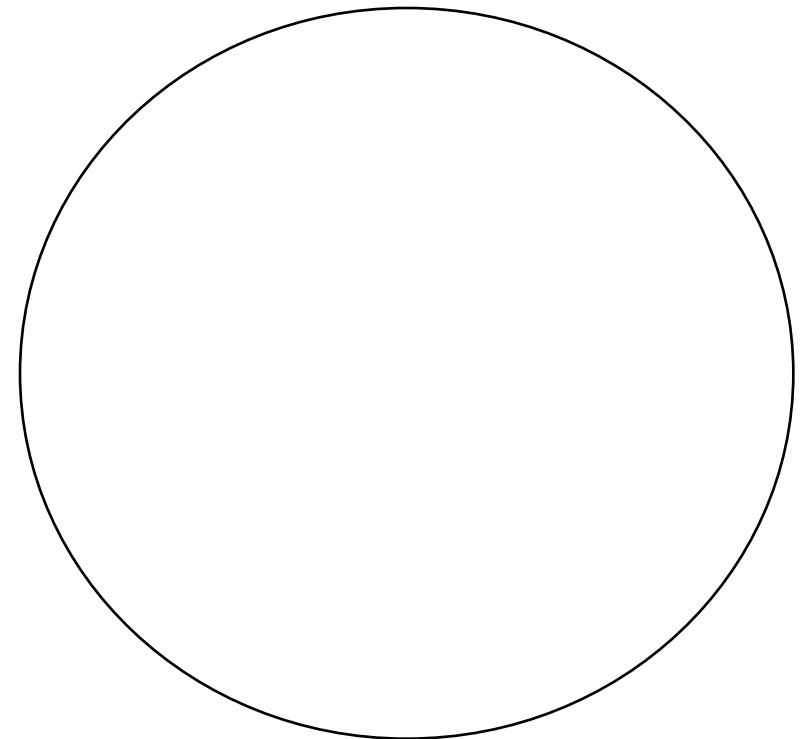
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 046

Name/Designation C-46 (Hubble's Var.)
NGC # 2261

Seen?
Date

Type Diffuse Nebula
Constellation Monoceros

Hemisphere Either
Season Winter

Magnitude *Size* 2 X 1

RA 06 39.2 *Dec* +08 44

Sky Atlas 2000 page 12 *Other Chart Page(s)*

Description

Observing Notes

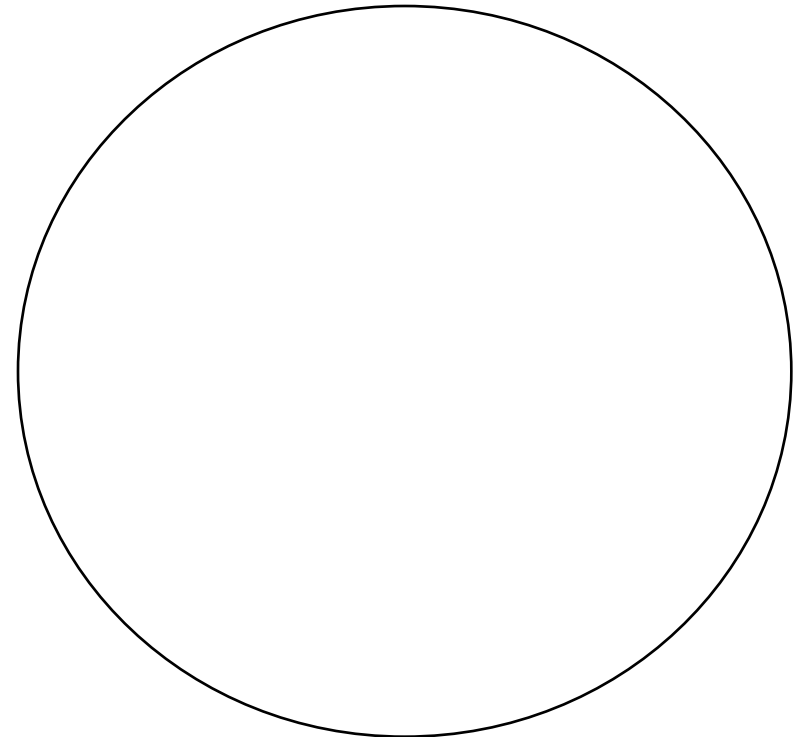
Viewing Time Comments

Observing Site

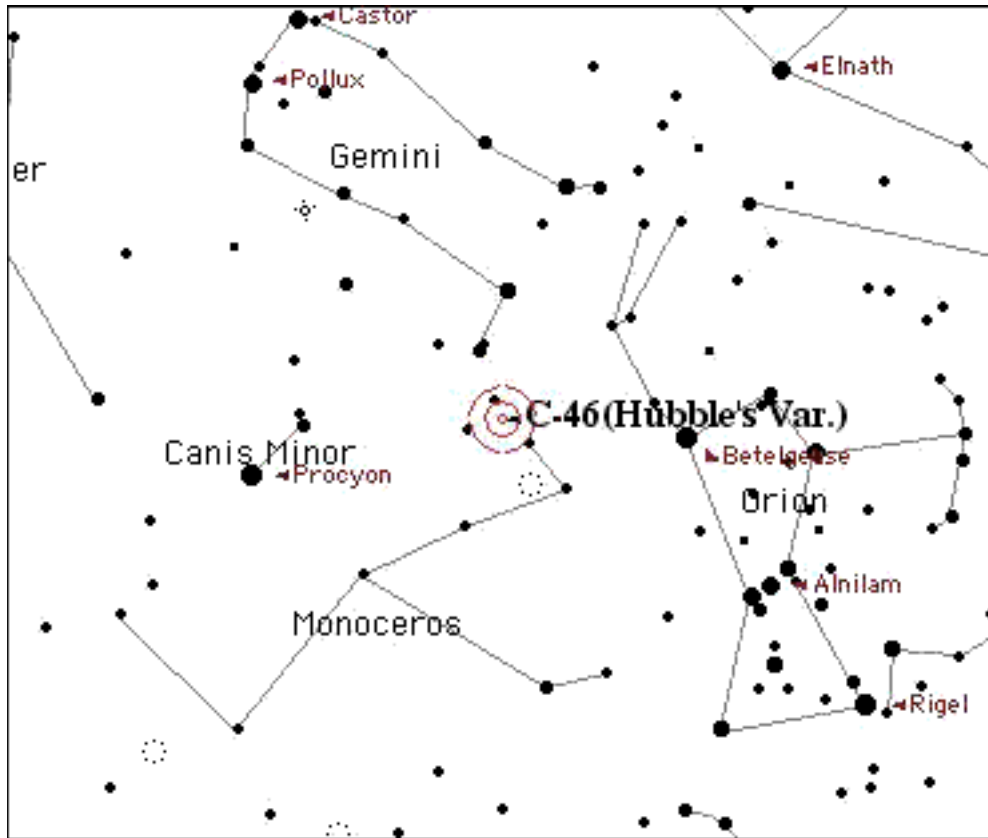
Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 047

Name/Designation C-47
NGC # 6934

Seen?
Date

Type Globular Cluster
Constellation Delphinus
Magnitude 8.9 *Size* 5.9
RA 20 34.2 *Dec* +07 24

Hemisphere Either
Season Mid-Summer

Sky Atlas 2000 page 16 *Other Chart Page(s)*

Description

Observing Notes

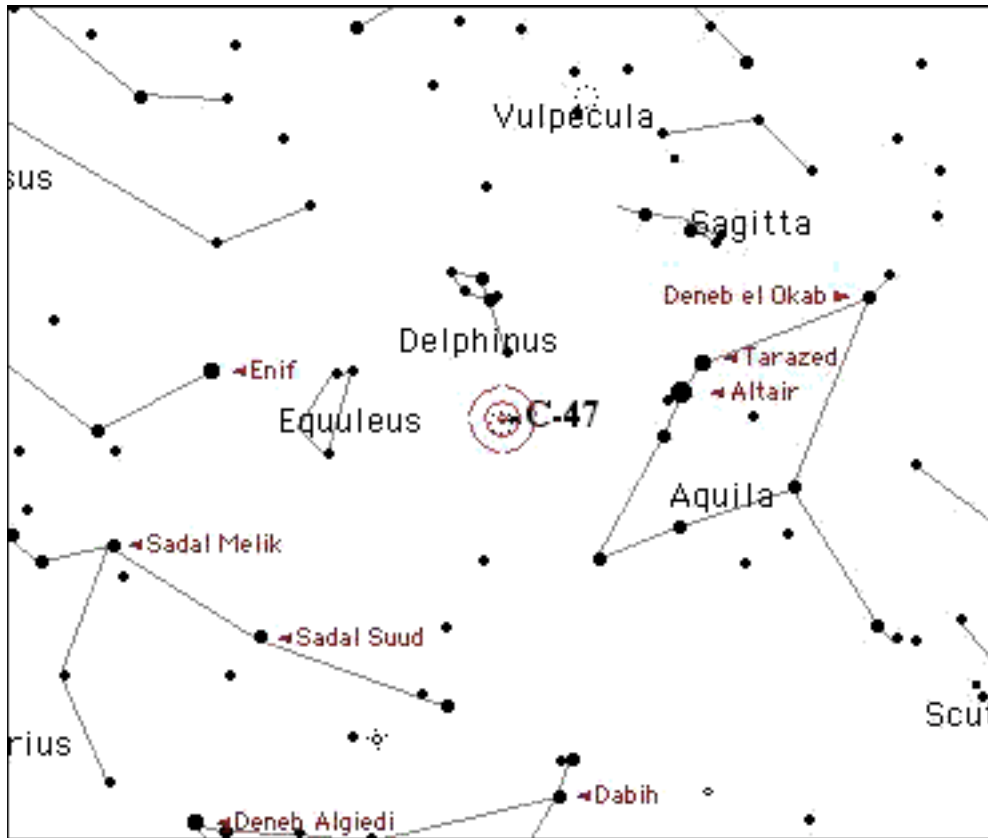
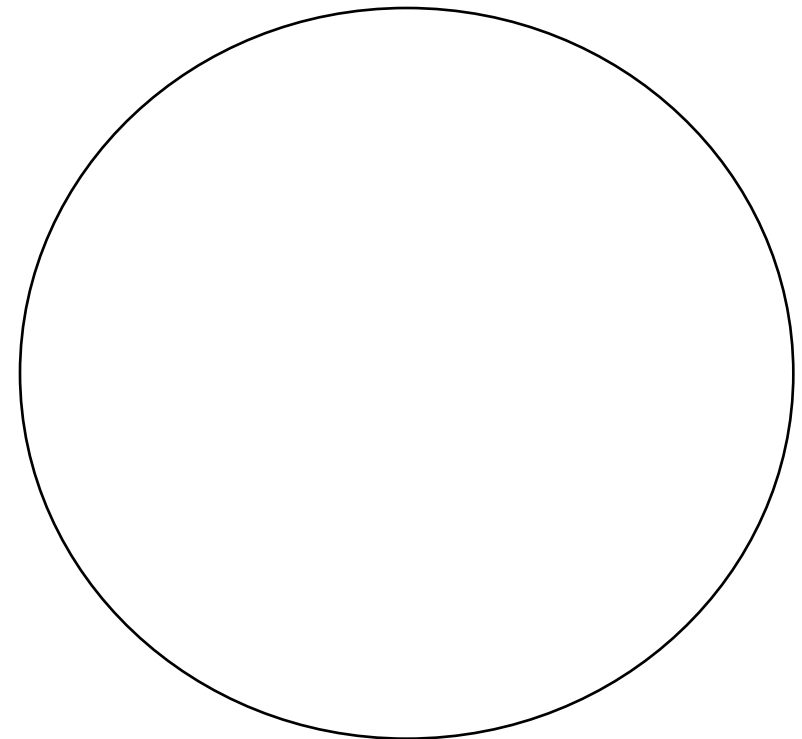
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Caldwell# 048

Name/Designation C-48
NGC # 2775

Seen?
Date

Type Galaxy
Constellation Cancer
Magnitude 10.3 Size 4.5 X 3
RA 09 10.3 Dec +07 02

Hemisphere Either
Season Early Spring

Observing Notes

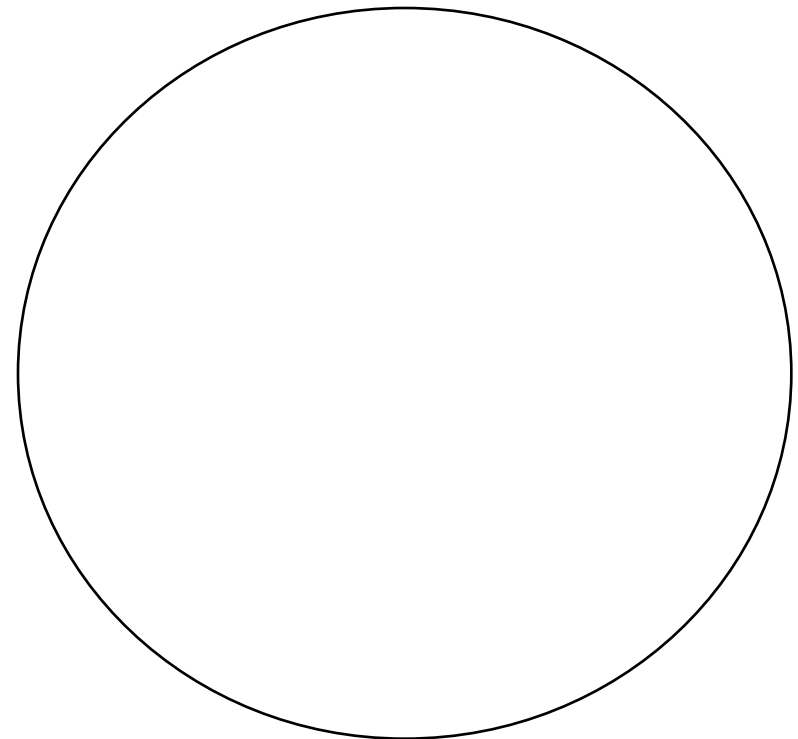
Viewing Time Comments

Observing Site

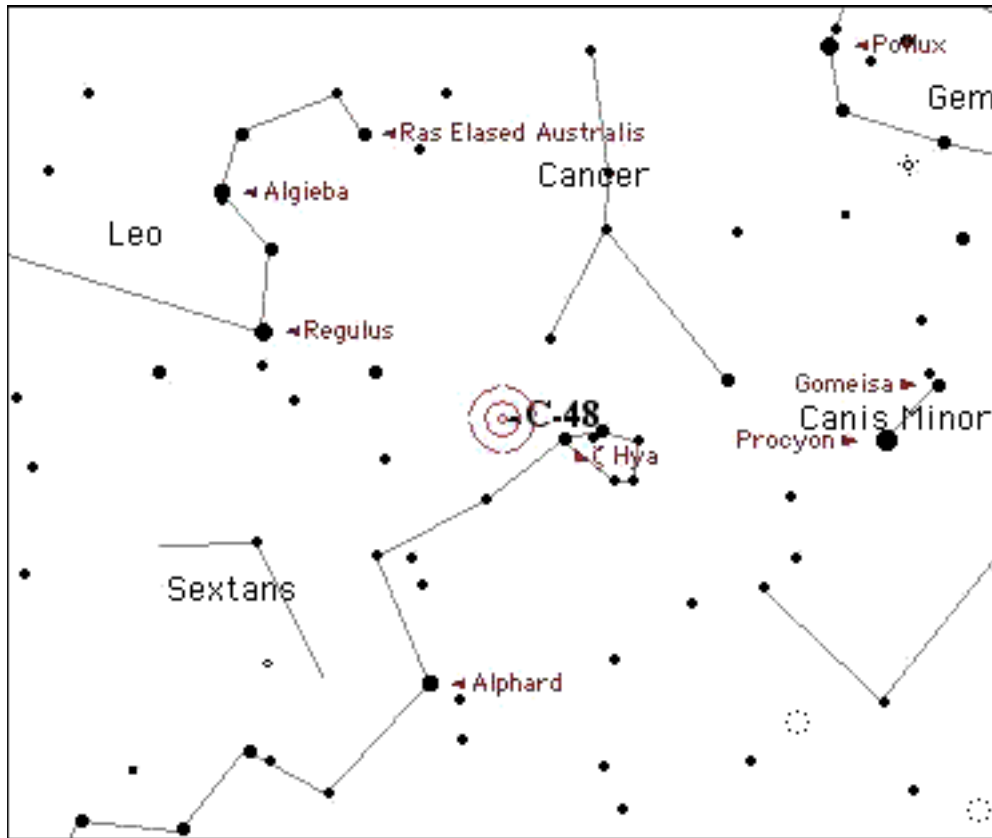
Equipment

Sky : Seeing Transparency

Comments



Sky Atlas 2000 page 12 Other Chart Page(s)
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 049

Name/Designation C-49 (Rosette Nebula)
NGC # 2237

Seen?
Date

Type Diffuse Nebula
Constellation Monoceros

Hemisphere Northern
Season Winter

Magnitude *Size* 80 X 60
RA 06 32.3 *Dec* +05 03

Sky Atlas 2000 page 12 *Other Chart Page(s)*

Description

Observing Notes

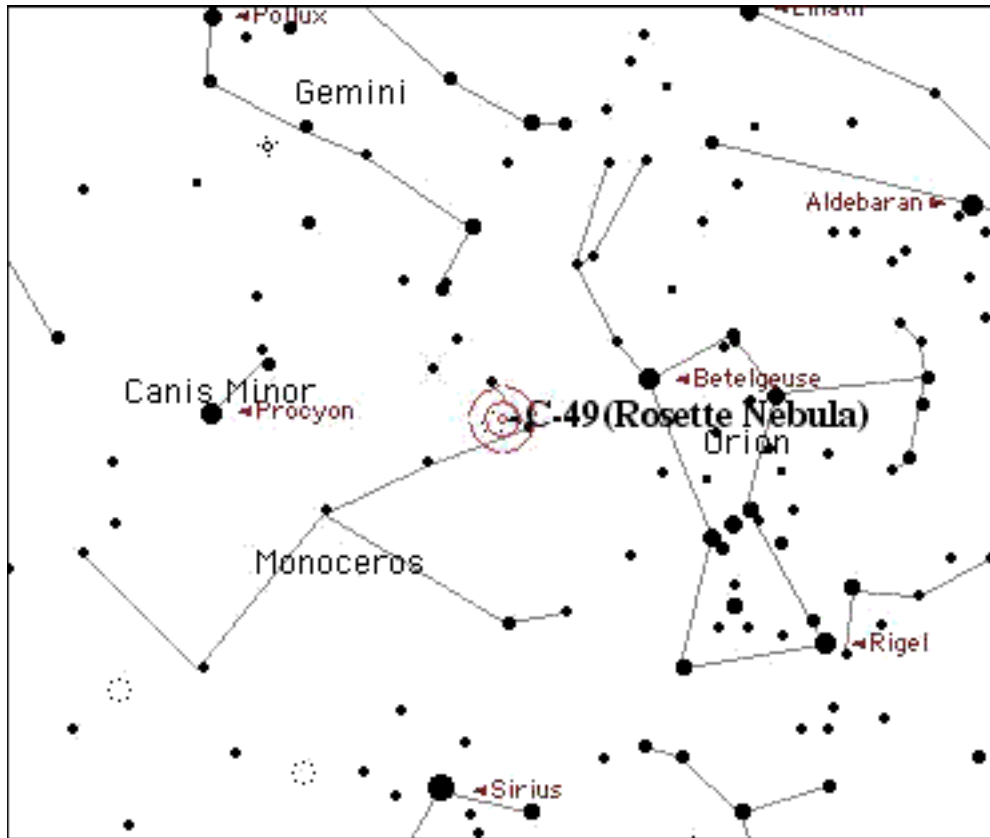
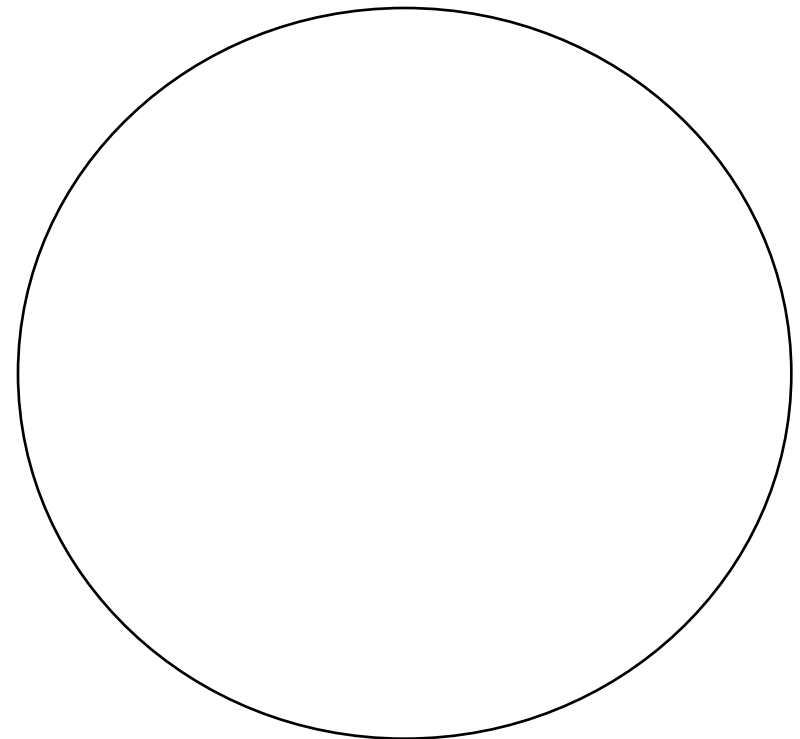
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 050

Name/Designation C-50
NGC # 2244

Seen?
Date

Type Open Cluster
Constellation Monoceros
Magnitude 4.8
RA 06 32.4

Size 24
Dec +04 52

Hemisphere Either
Season Winter

Sky Atlas 2000 page 12 Other Chart Page(s)

Description

Observing Notes

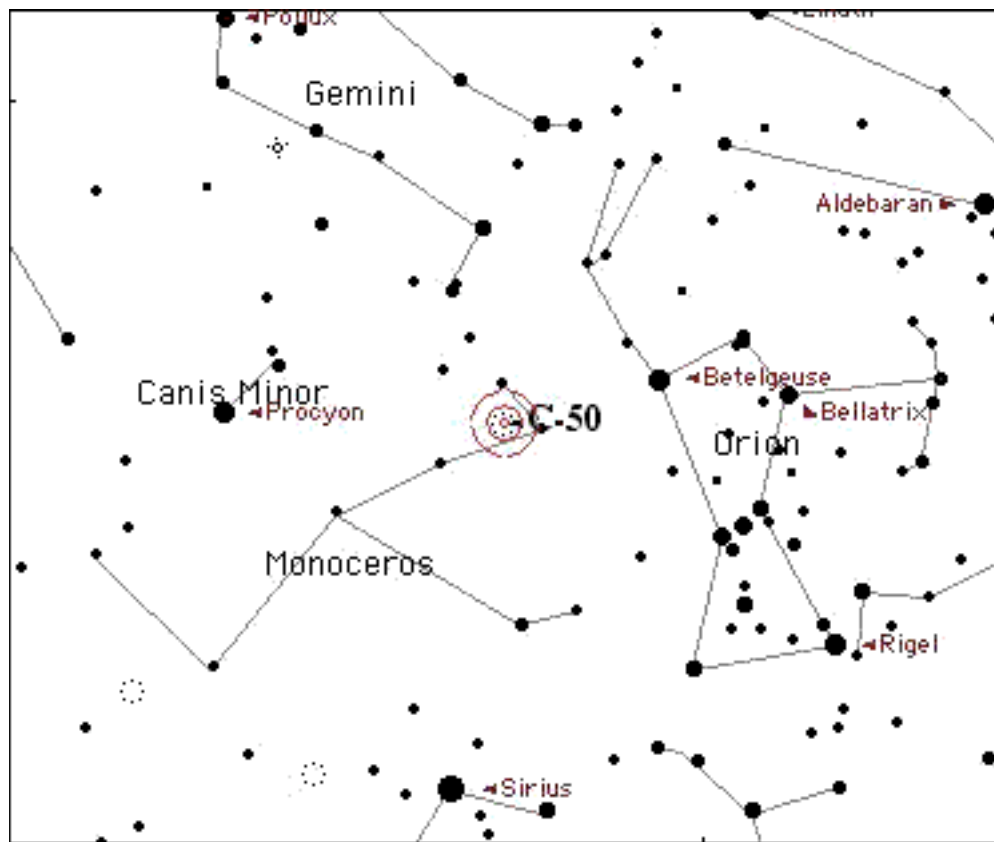
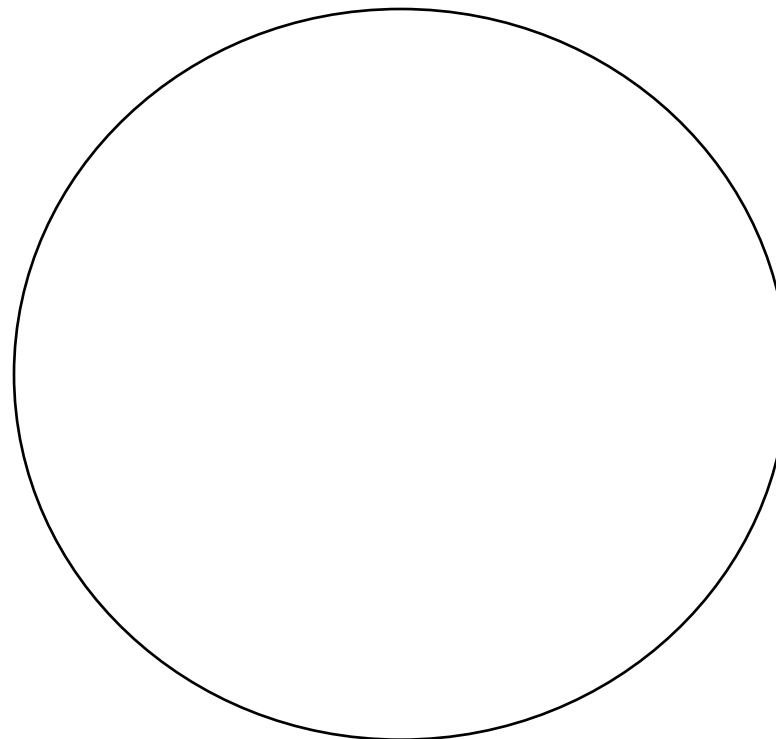
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 051

Name/Designation C-51
NGC # IC 1613

Seen?
Date

Type Galaxy Hemisphere Either
Constellation Cetus Season Fall/Early Winter
Magnitude 9.3 Size 12 X 11
RA 01 04.8 Dec +02 07

Sky Atlas 2000 page 10 Other Chart Page(s)

Description

Observing Notes

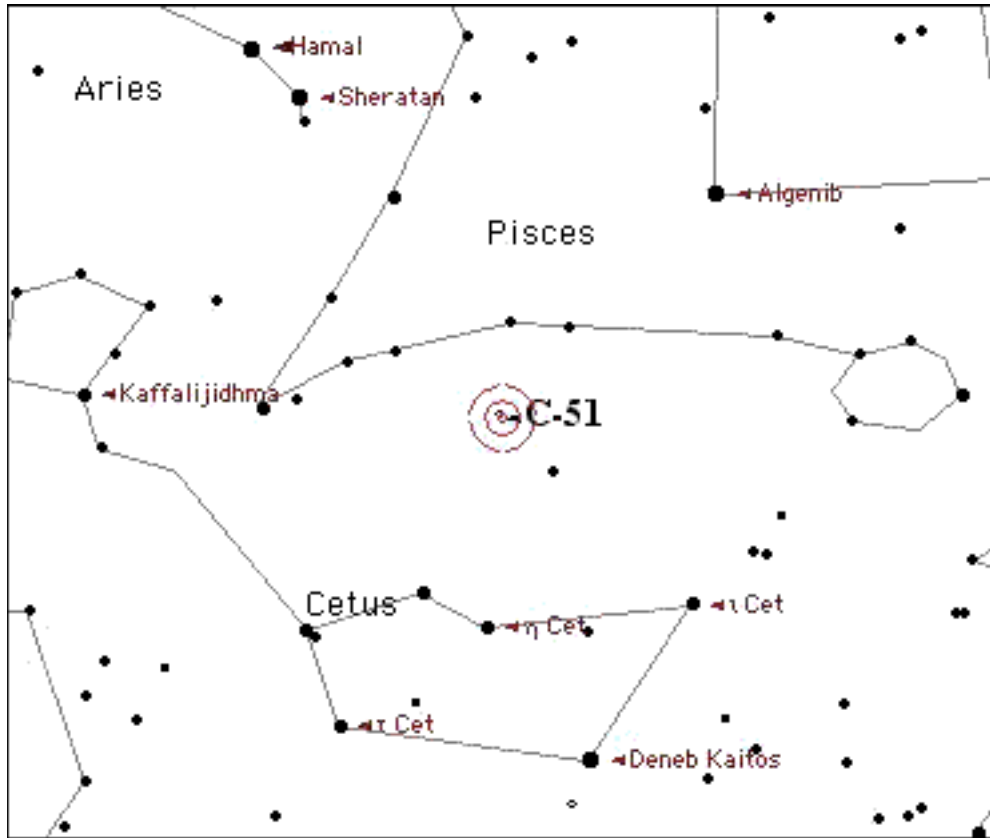
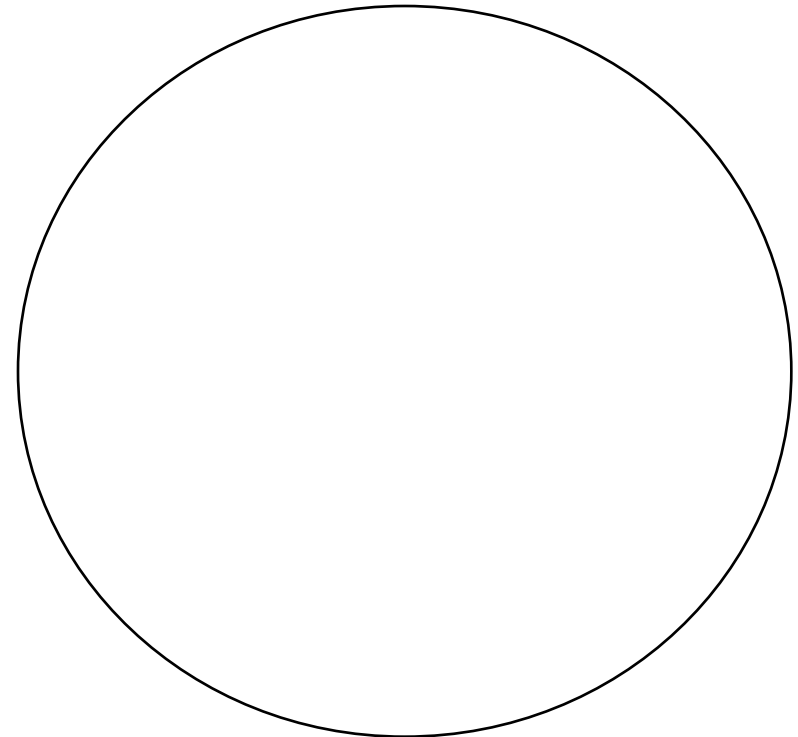
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 052

Name/Designation C-52
NGC # 4697

Seen?
Date

Type Galaxy
Constellation Virgo
Magnitude 9.3 Size 6 X 3
RA 12 48.6 Dec -05 48

Hemisphere Either
Season Late Spring

Sky Atlas 2000 page 14 Other Chart Page(s)

Description

Observing Notes

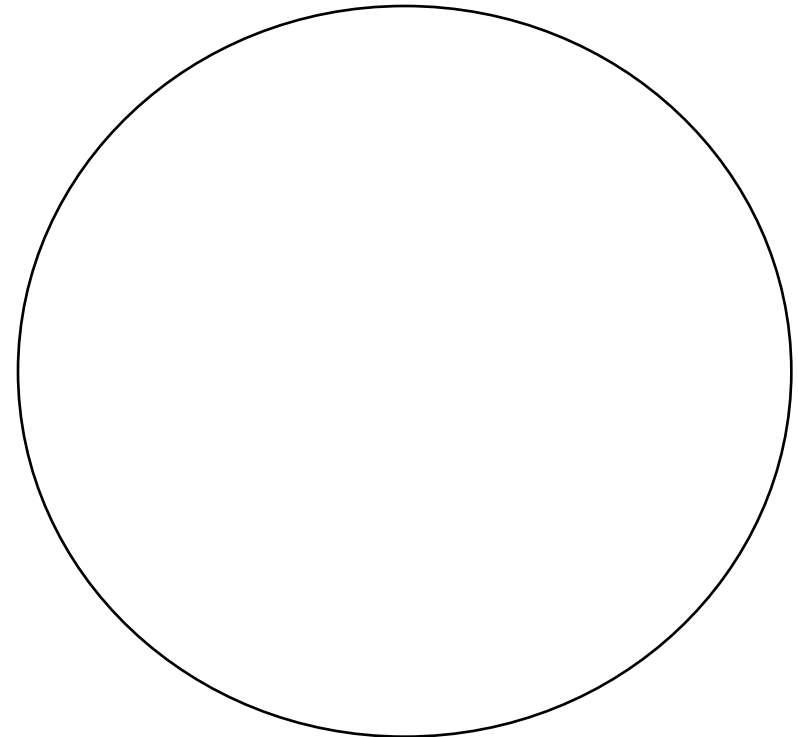
Viewing Time Comments

Observing Site

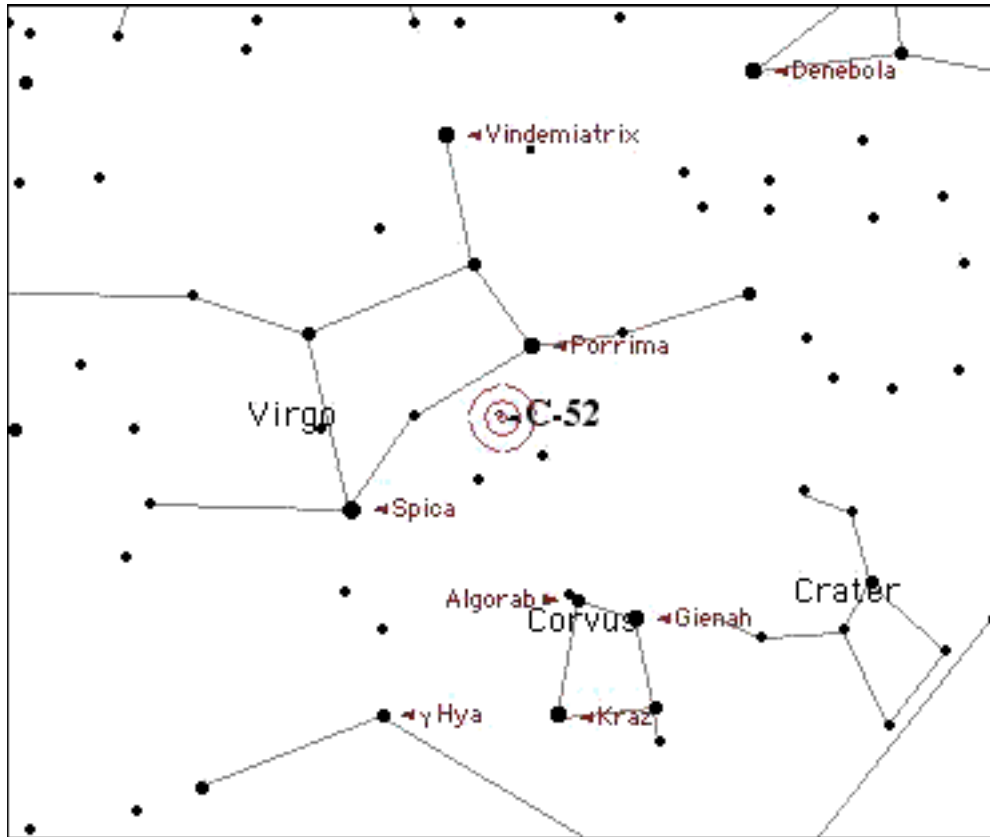
Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 053

Name/Designation C-52 (Spindle Galaxy)
NGC # 3115

Seen?
Date

Type Galaxy
Constellation Sextans
Magnitude 9.1 **Size** 8 X 3
RA 10 05.2 **Dec** -07 43

Hemisphere Either
Season Early Spring

Sky Atlas 2000 page 13 **Other Chart Page(s)**

Description

Observing Notes

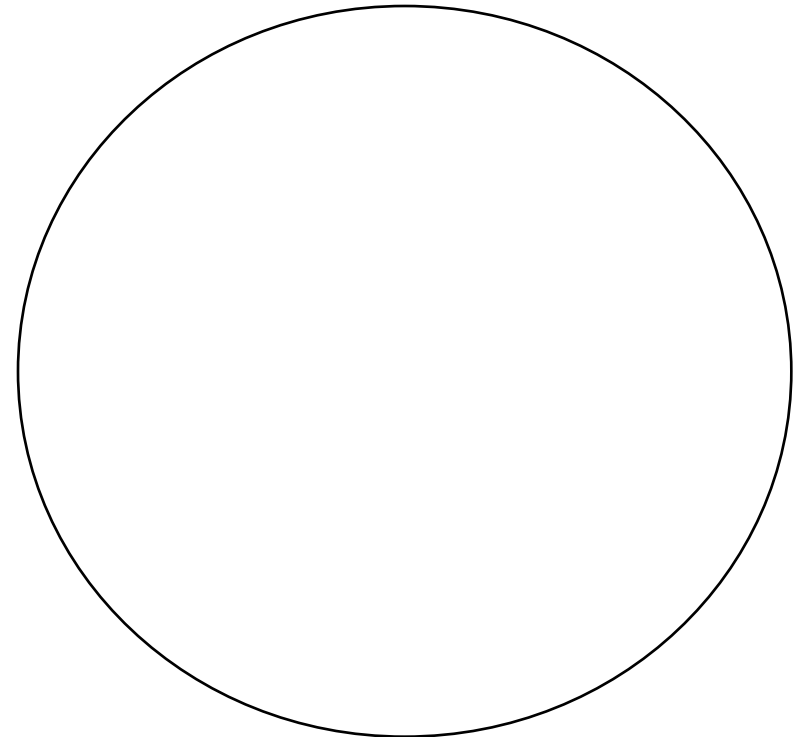
Viewing Time Comments

Observing Site

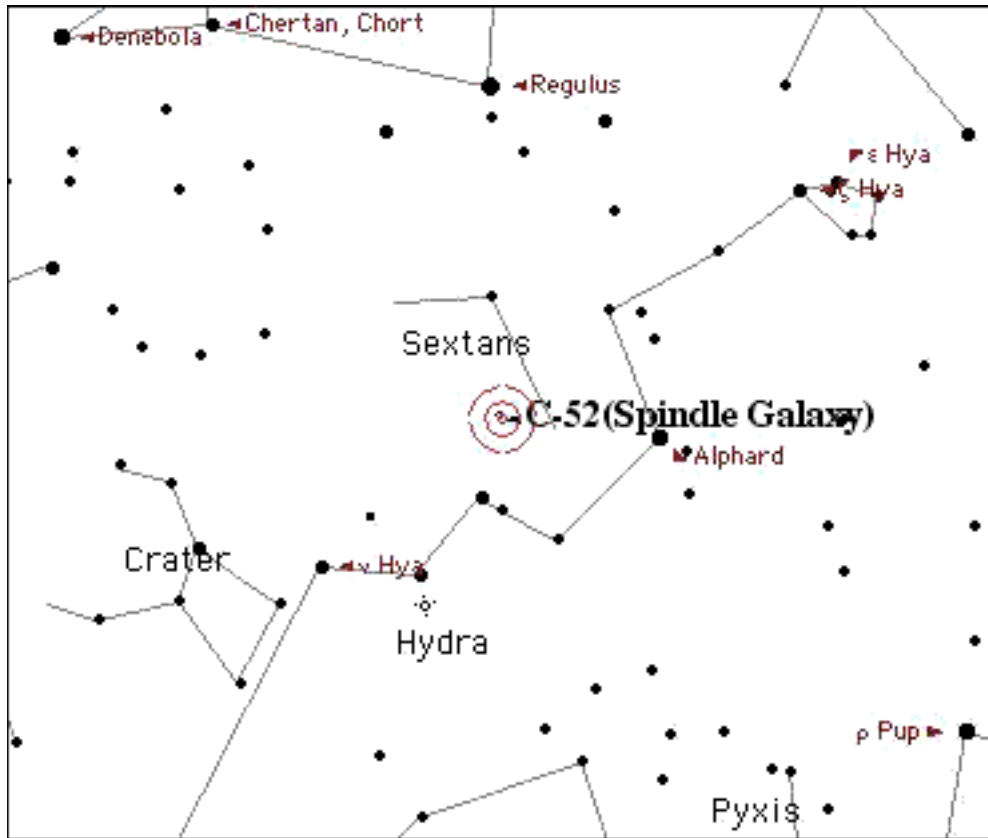
Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 054

Name/Designation C-54
NGC # 2506

Seen?
Date

Type Open Cluster
Constellation Monoceros
Magnitude 7.6 Size 7
RA 08 00.2 Dec -10 47

Hemisphere Either
Season Winter

Sky Atlas 2000 page 12 Other Chart Page(s)

Description

Observing Notes

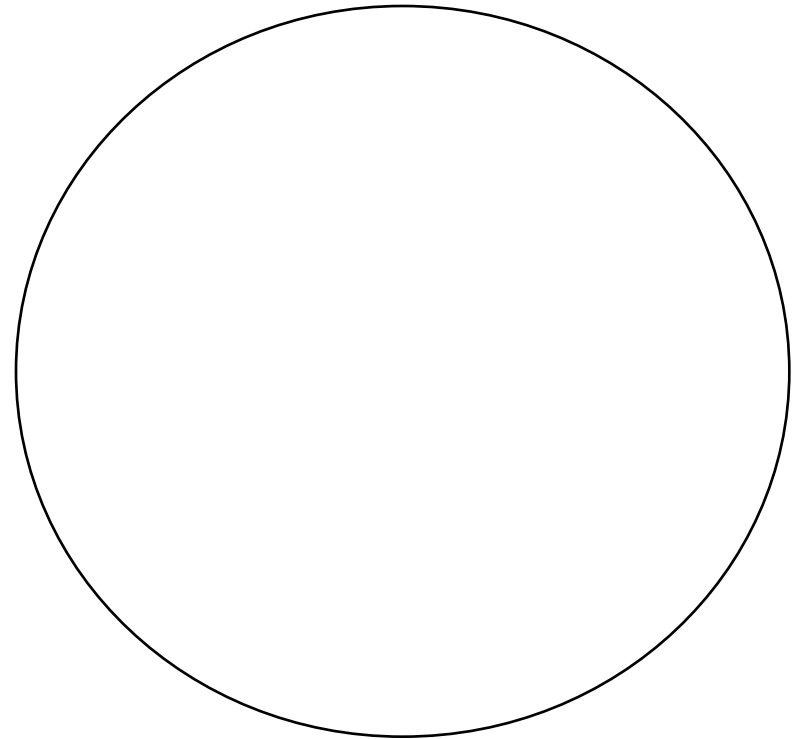
Viewing Time Comments

Observing Site

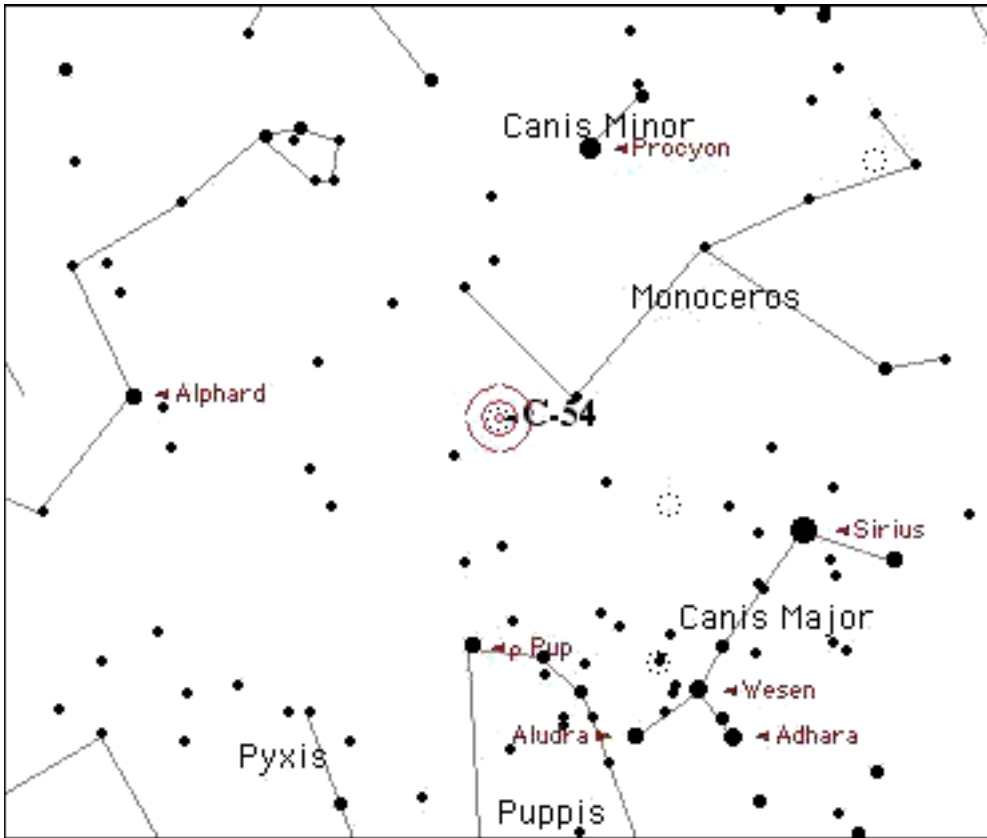
Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 055

Name/Designation C-55 (Saturn Nebula)
NGC # 7009

Seen?
Date

Type Planetary Nebula
Constellation Aquarius
Magnitude 8
RA 21 04.2

Hemisphere Either
Season Fall/Early Winter

Size 2.5 / 1
Dec -11 22

Sky Atlas 2000 page 16 **Other Chart Page(s)**

Description

Observing Notes

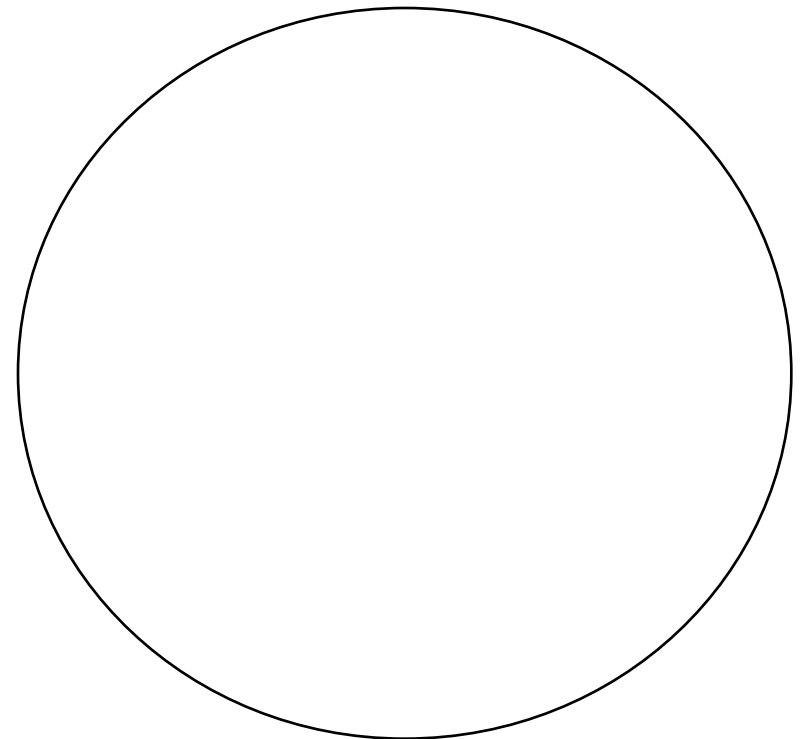
Viewing Time Comments

Observing Site

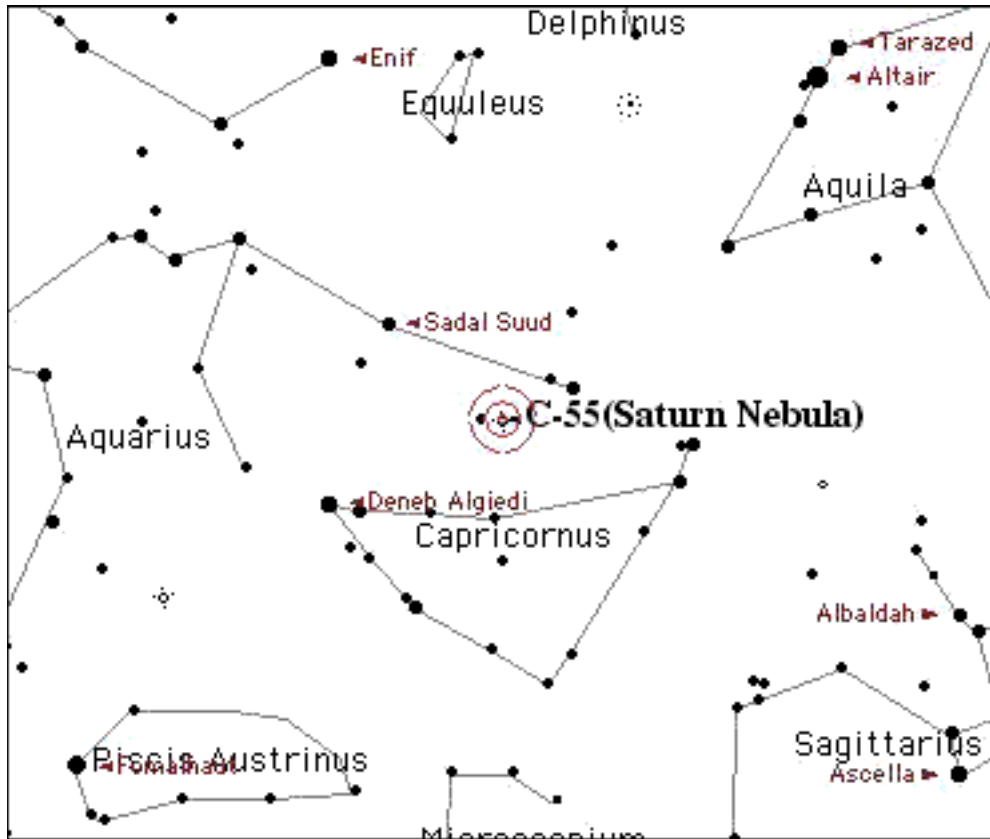
Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 056

Name/Designation C-56
NGC # 246

Seen?
Date

Type Planetary Nebula
Constellation Cetus
Magnitude 10.9 Size 3.8
RA 00 47.0 Dec -11 53

Hemisphere Either
Season Fall/Early Winter

Sky Atlas 2000 page 10 Other Chart Page(s)

Description

Observing Notes

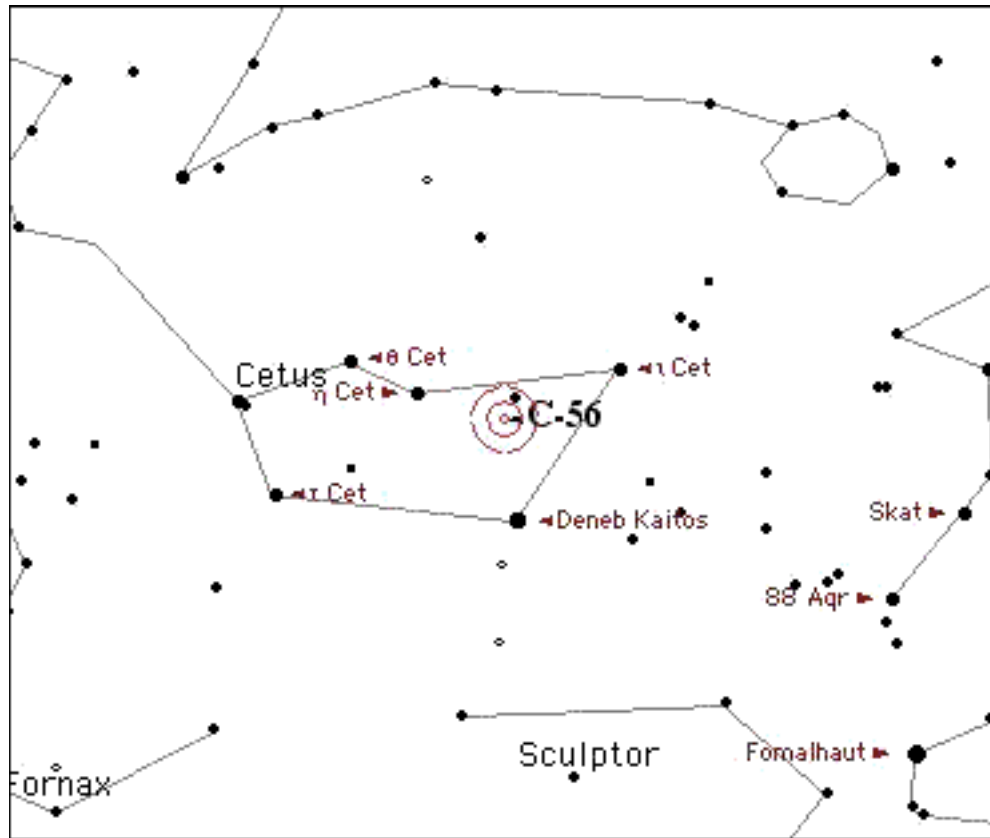
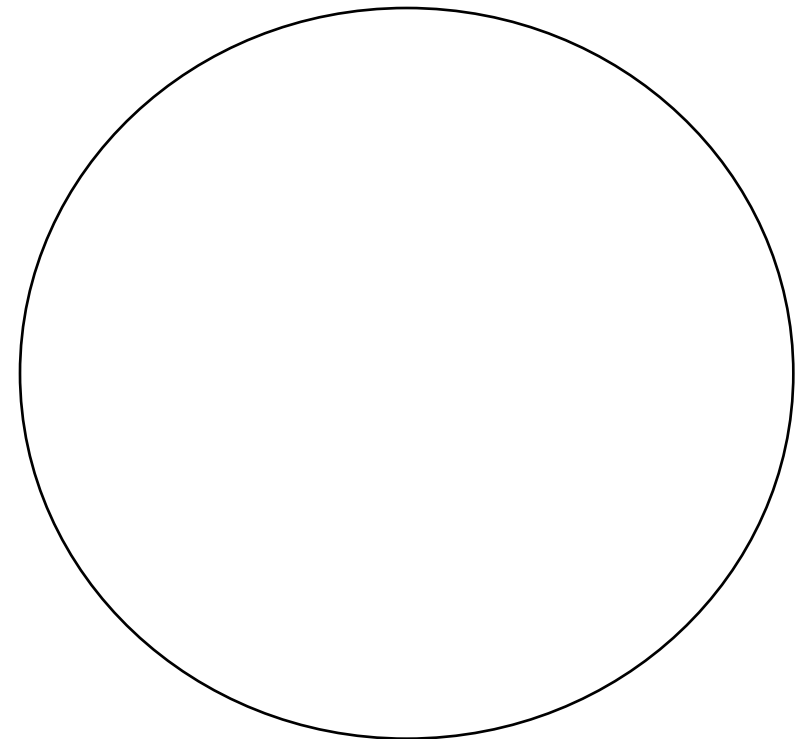
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 057

Name/Designation C-57 (Barnard's Gal.)
NGC # 6822

Seen?
Date

Type Galaxy
Constellation Sagittarius
Magnitude 8.8
RA 19 44.9

Hemisphere Either
Season Late Summer
Size 10 X 9
Dec -14 48

Sky Atlas 2000 page 22 **Other Chart Page(s)**

Description

Observing Notes

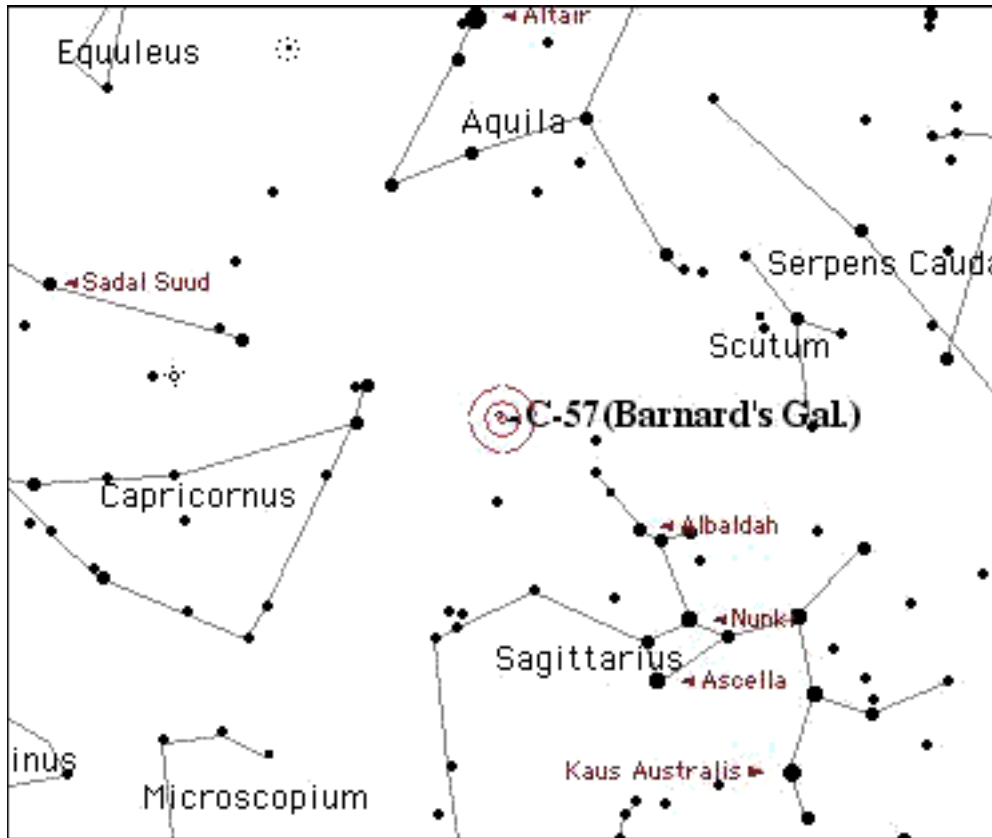
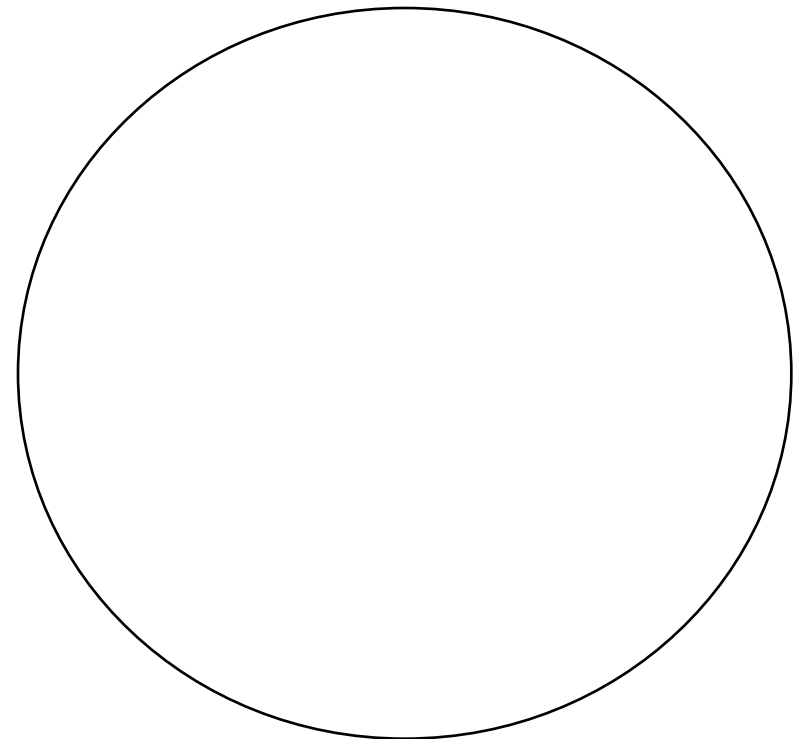
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 058

Name/Designation C-58
NGC # 2360

Seen?
Date

Type Open Cluster
Constellation Canis Major
Hemisphere Either
Season Winter
Magnitude 7.2 Size 13
RA 07 17.8 Dec -15 37

Sky Atlas 2000 page 12 Other Chart Page(s)

Description

Observing Notes

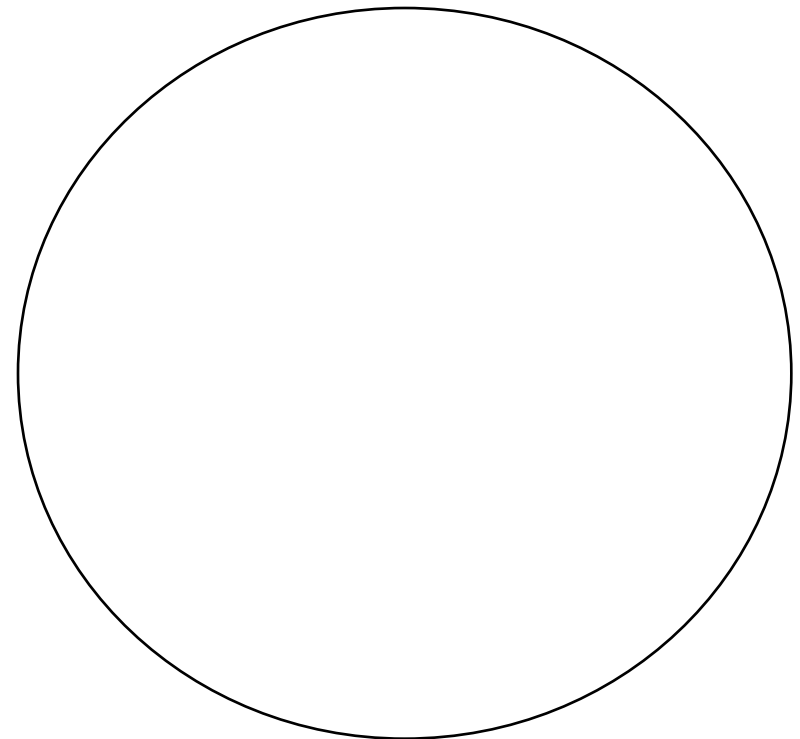
Viewing Time Comments

Observing Site

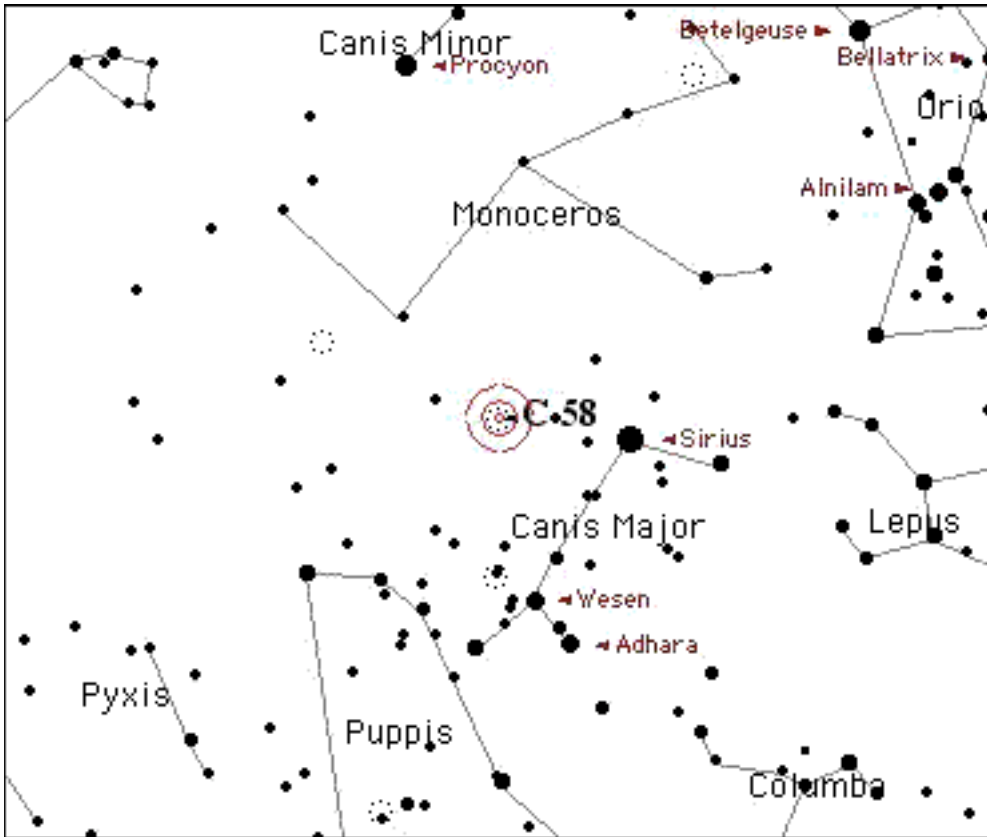
Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 059

Name/Designation C-59 (Ghost of Jupiter)
NGC # 3242

Seen?
Date

Type Planetary Nebula
Constellation Hydra
Magnitude 7.8 *Size* 0.3 / 21
RA 10 24.8 *Dec* -18 38

Hemisphere Either
Season Early Spring

Observing Notes

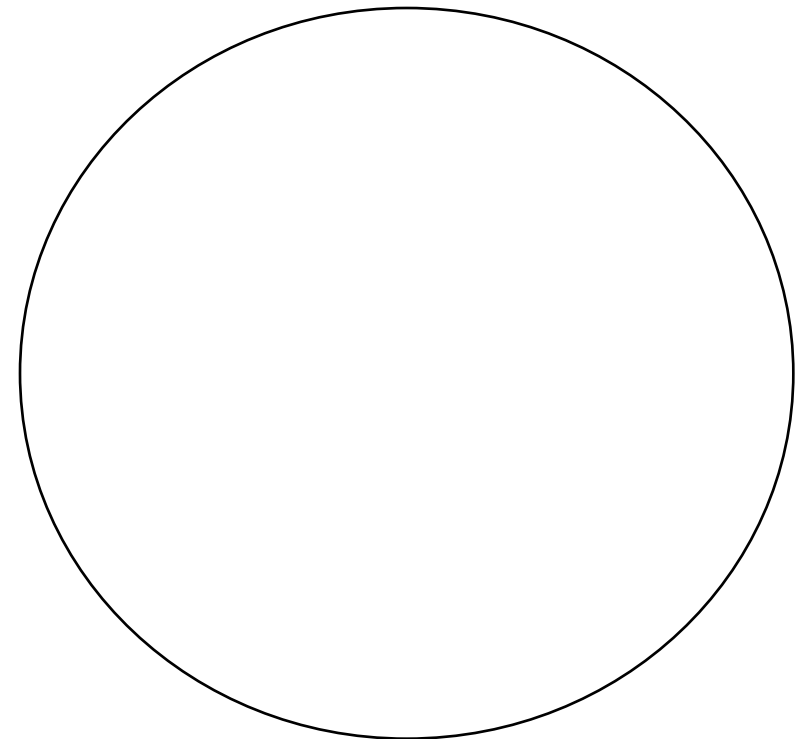
Viewing Time Comments

Observing Site

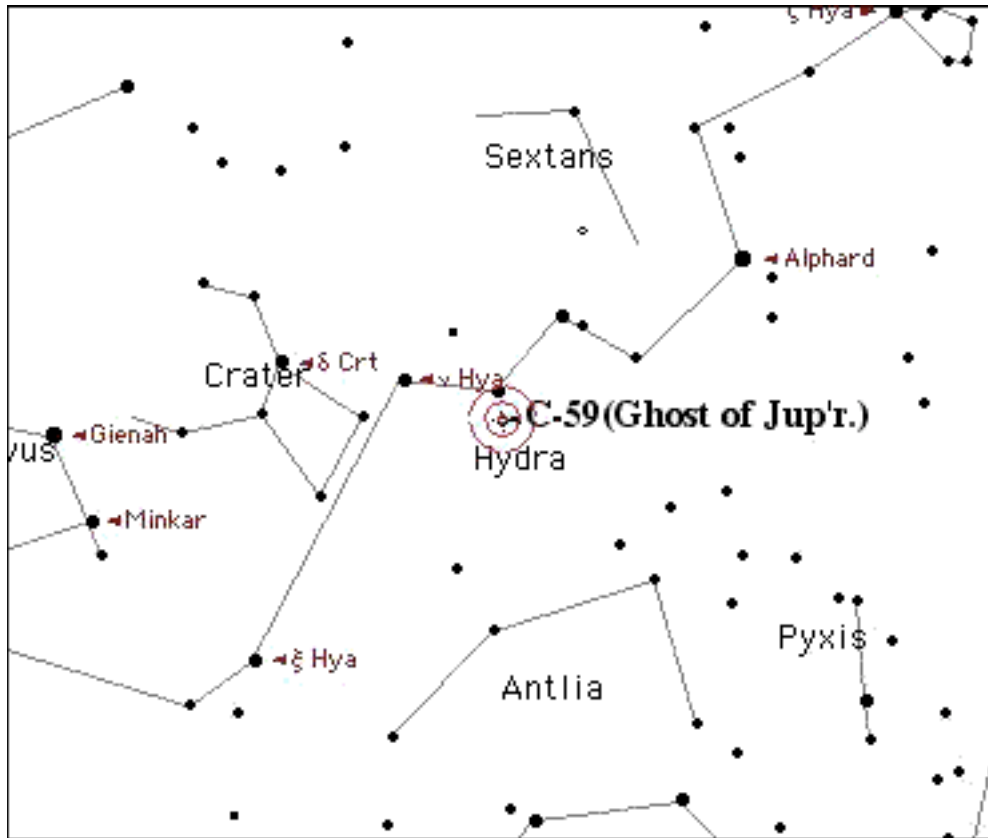
Equipment

Sky : Seeing *Transparency*

Comments



Sky Atlas 2000 page 13 *Other Chart Page(s)*
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 060

Name/Designation C-60 (Antennae Galaxies)
NGC # 4038

Seen?
Date

Type Galaxy
Constellation Corvus
Magnitude 10.7
RA 12 01.9
Size 2.6 X 1.8
Dec -18 52

Hemisphere Either
Season Late Spring

Observing Notes

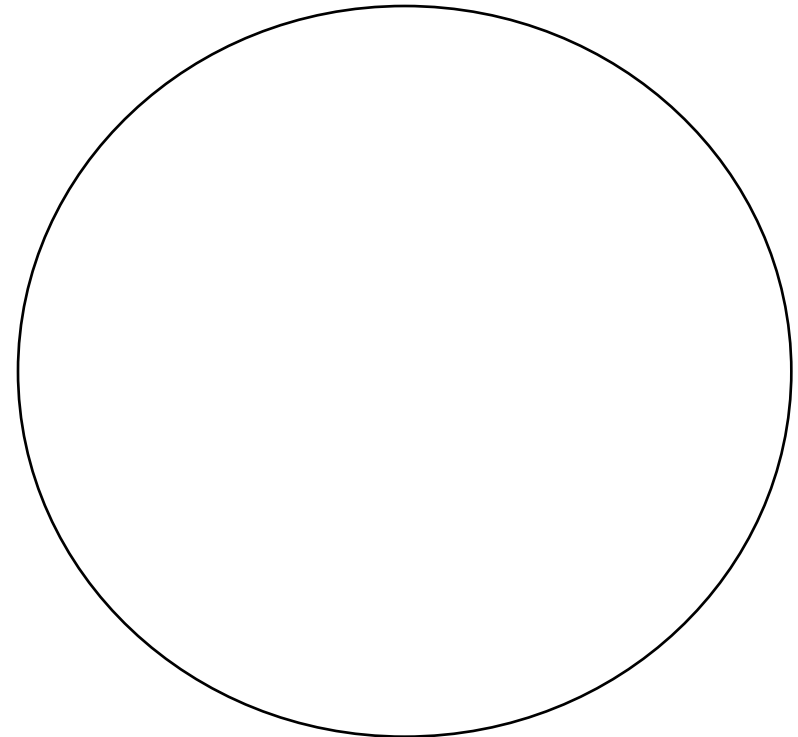
Viewing Time Comments

Observing Site

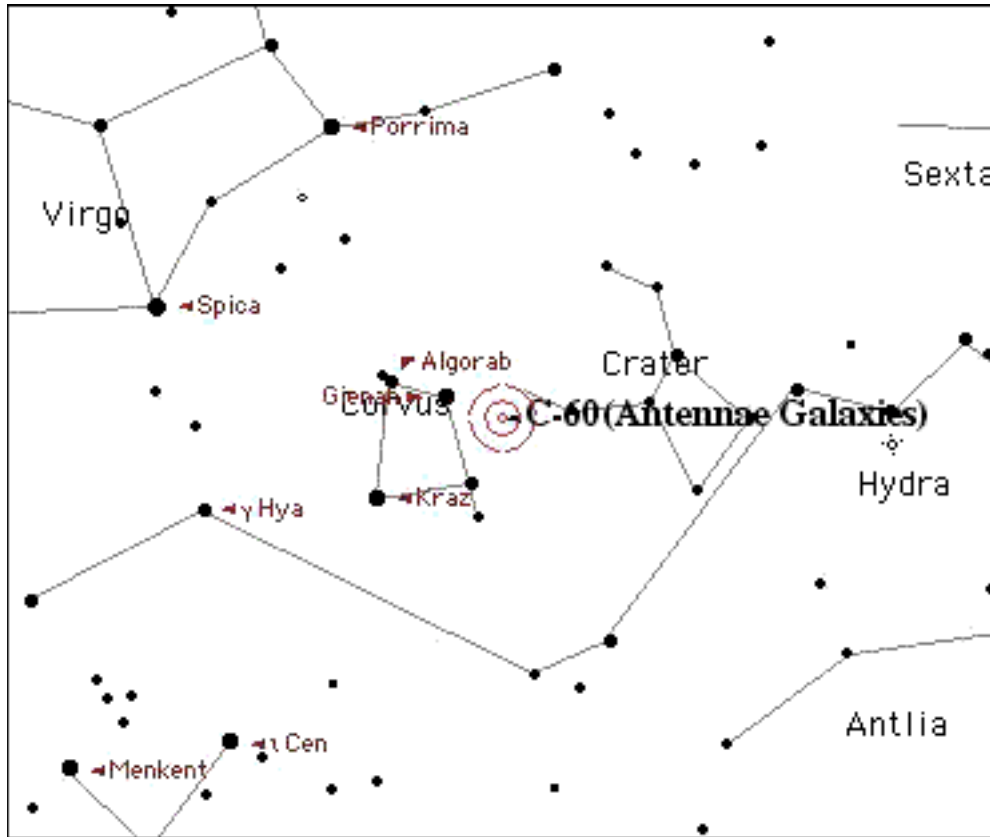
Equipment

Sky : Seeing **Transparency**

Comments



Sky Atlas 2000 page 21 **Other Chart Page(s)**
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 061

Name/Designation C-61 (Antennae Galaxies)
NGC # 4039

Seen?
Date

Type Galaxy
Constellation Corvus
Magnitude 10.7
RA 12 01.9
Size 3.2 X 2.2
Dec -18 53

Hemisphere Either
Season Late Spring

Observing Notes

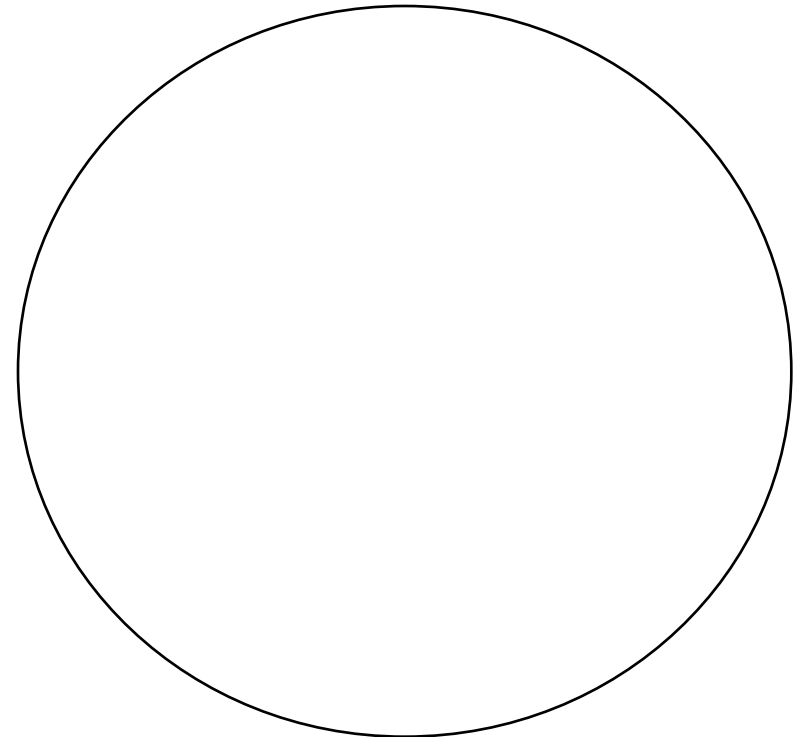
Viewing Time Comments

Observing Site

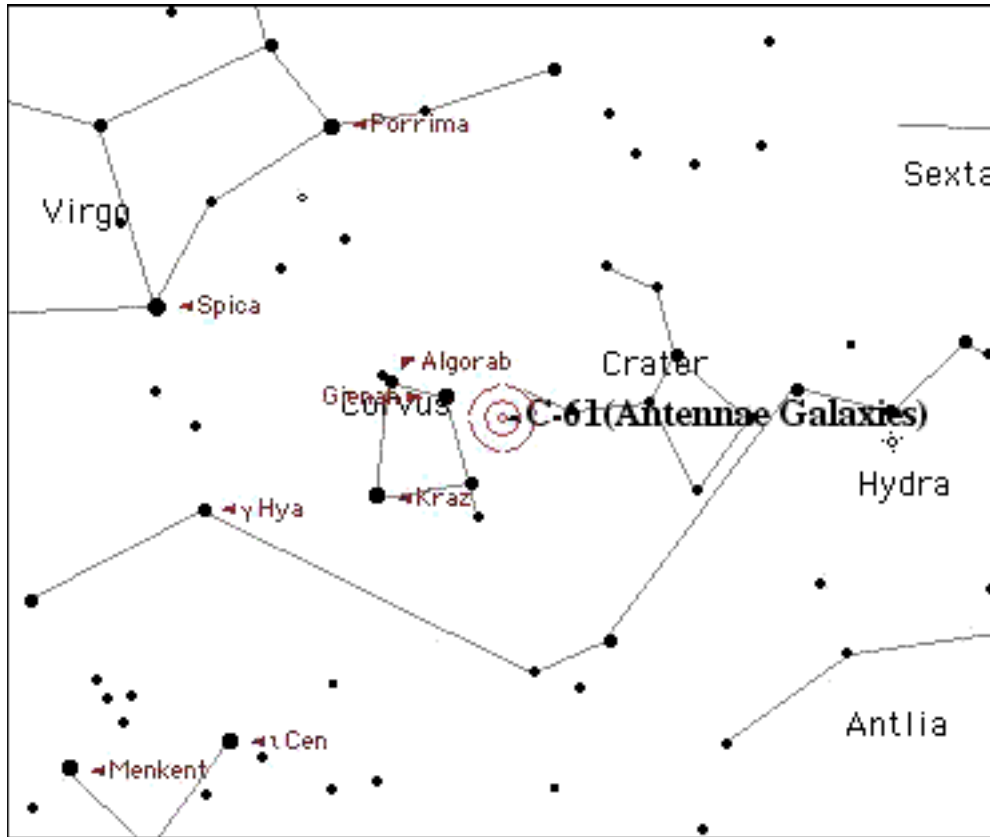
Equipment

Sky : Seeing **Transparency**

Comments



Sky Atlas 2000 page 21 **Other Chart Page(s)**
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 062

Name/Designation C-62
NGC # 247

Seen?
Date

Type Galaxy Hemisphere Either
Constellation Cetus Season Fall/Early Winter
Magnitude 9.1 Size 20 X 7
RA 00 47.1 Dec -20 46

Sky Atlas 2000 page 18 Other Chart Page(s)

Description

Observing Notes

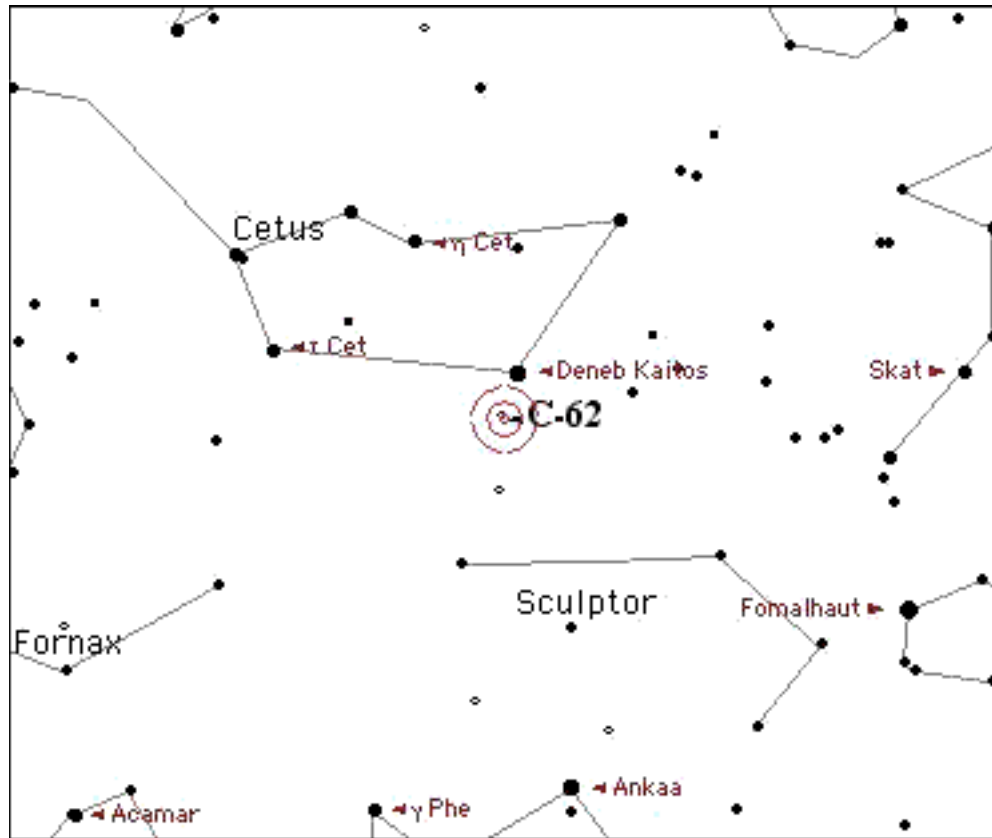
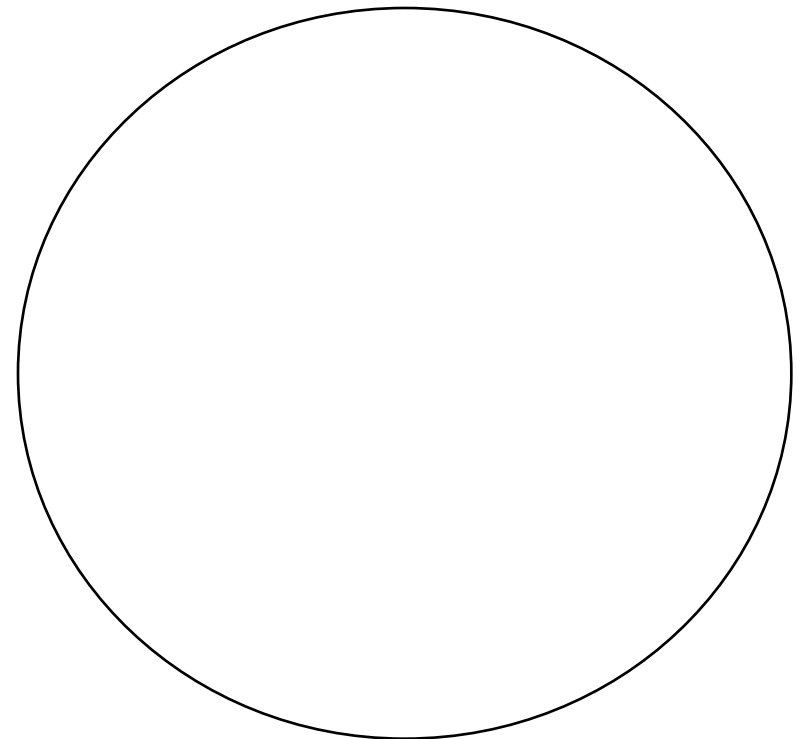
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 063

Name/Designation C-63 (Helix Nebula)
NGC # 7293

Seen?
Date

Type Planetary Nebula
Constellation Aquarius
Magnitude 7.3 **Size** 13
RA 22 29.6 **Dec** -20 48

Hemisphere Either
Season Fall/Early Winter

Sky Atlas 2000 page 23 **Other Chart Page(s)**

Description

Observing Notes

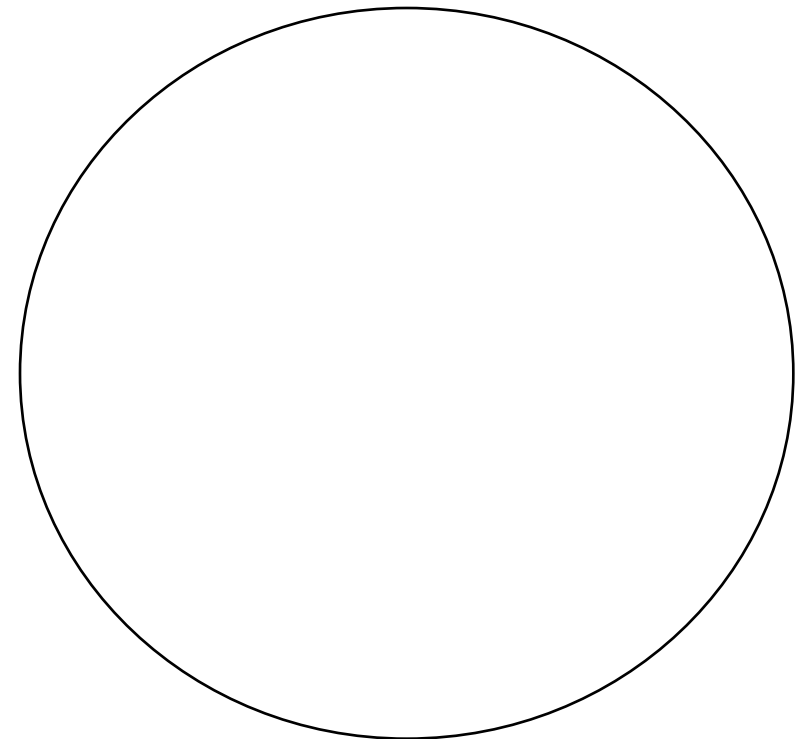
Viewing Time Comments

Observing Site

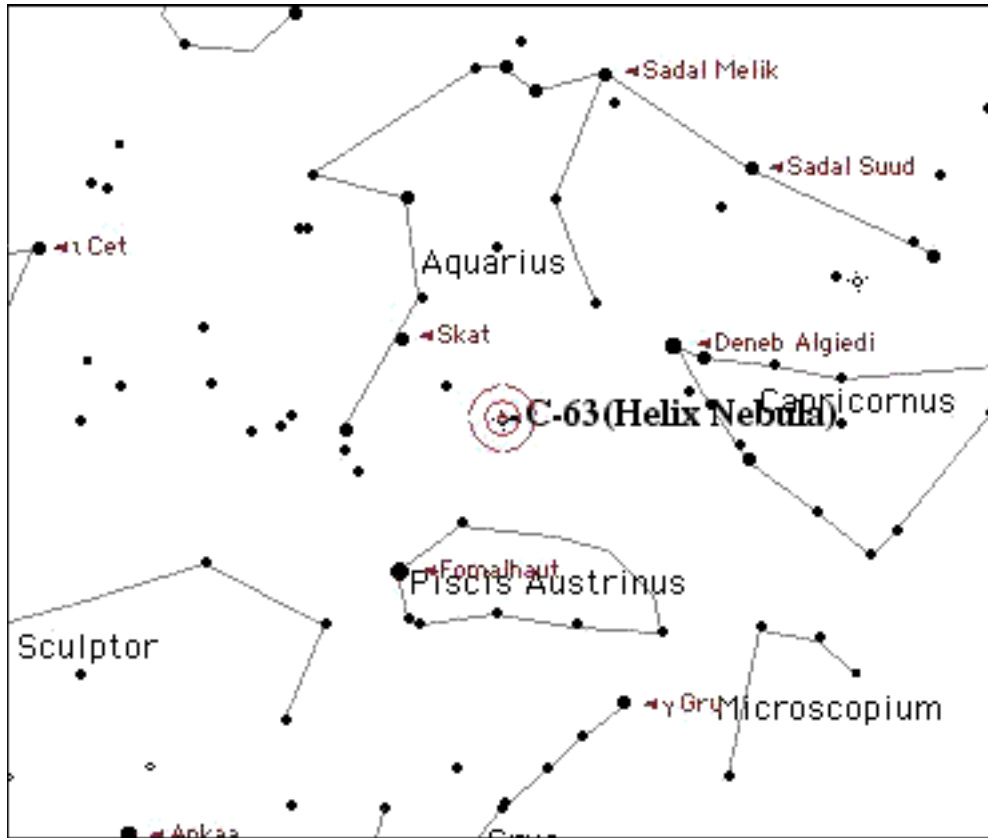
Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 064

Name/Designation
NGC #

C-64 (Mexican Jumping Star)
2362

Seen?
Date

Type Open Cluster
Constellation Canis Major
Magnitude 4.1
RA 07 18.8

Size 8
Dec -24 57

Hemisphere Either
Season Winter

Sky Atlas 2000 page 19 *Other Chart Page(s)*

Description

Observing Notes

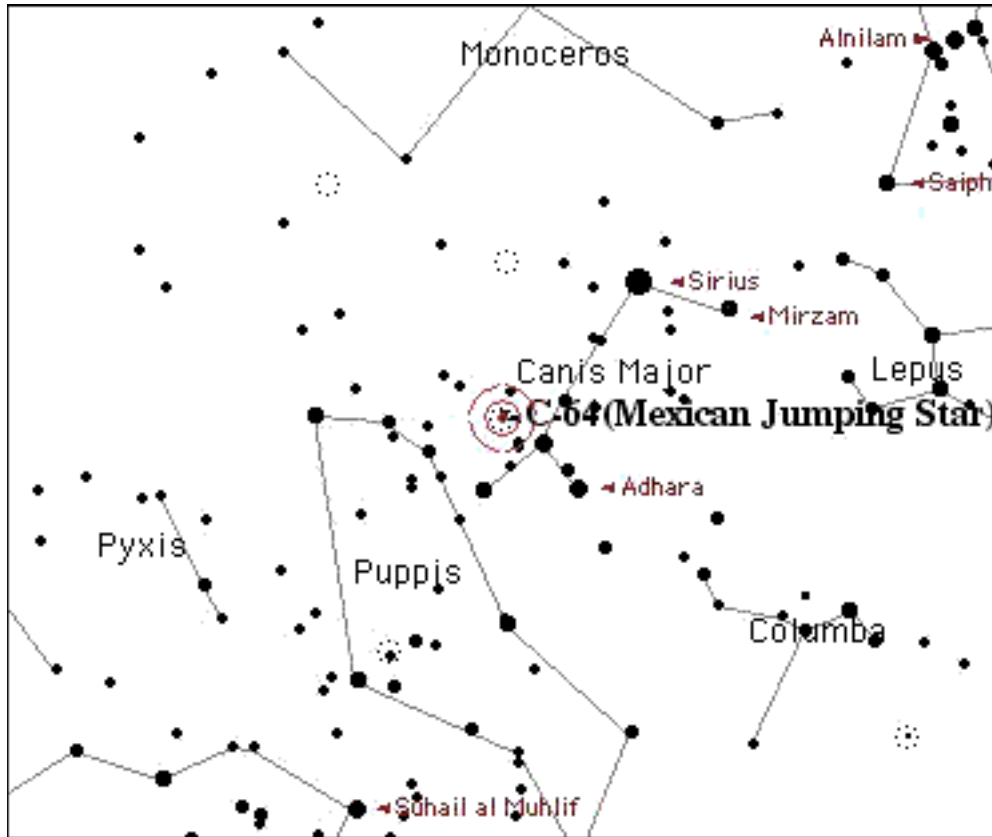
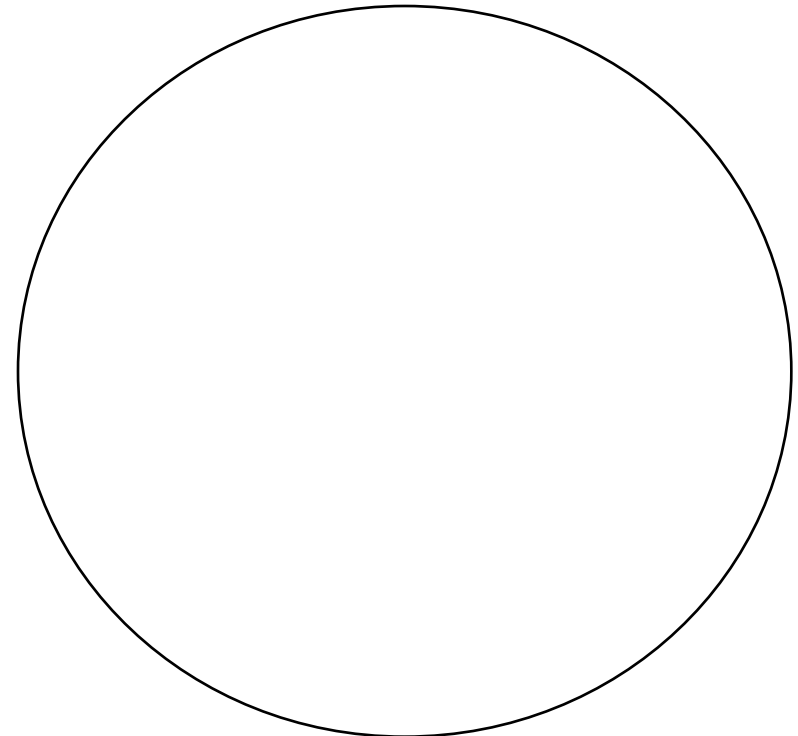
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 065

Name/Designation C-65 (Sculptor Galaxy)
NGC # 253

Seen?
Date

Type Galaxy
Constellation Sculptor
Magnitude 7.1
RA 00 47.6
Hemisphere Either
Season Fall/Early Winter
Size 25 X 7
Dec -25 17

Sky Atlas 2000 page 18 **Other Chart Page(s)**

Description

Observing Notes

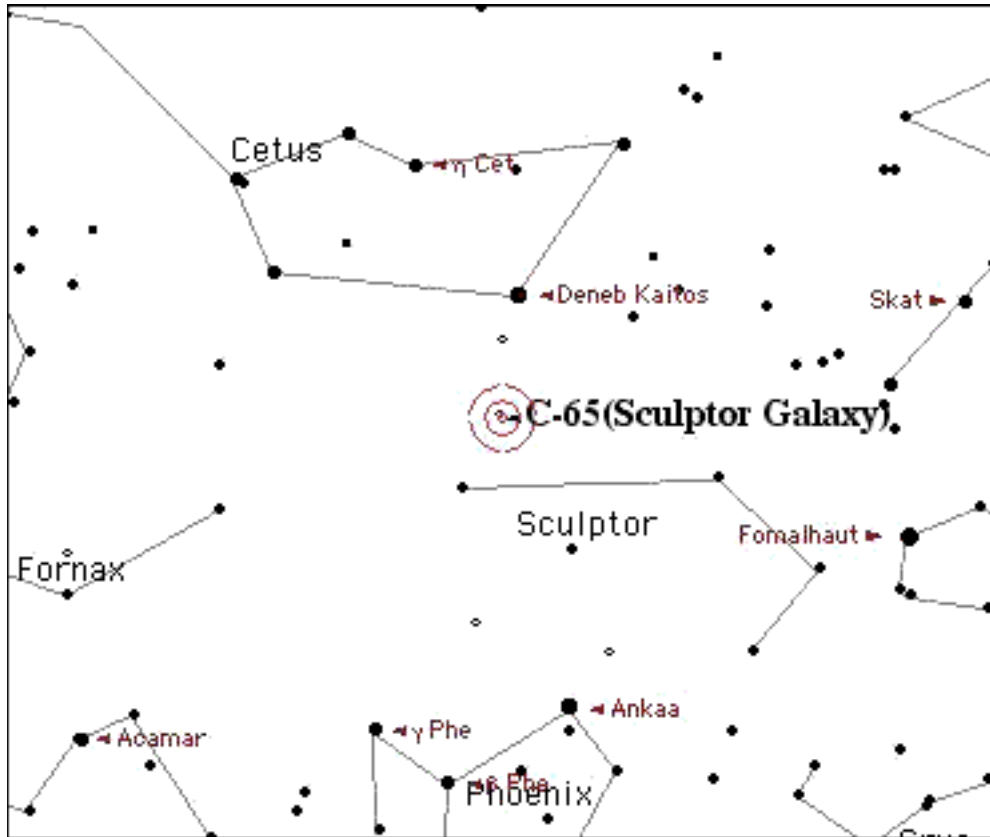
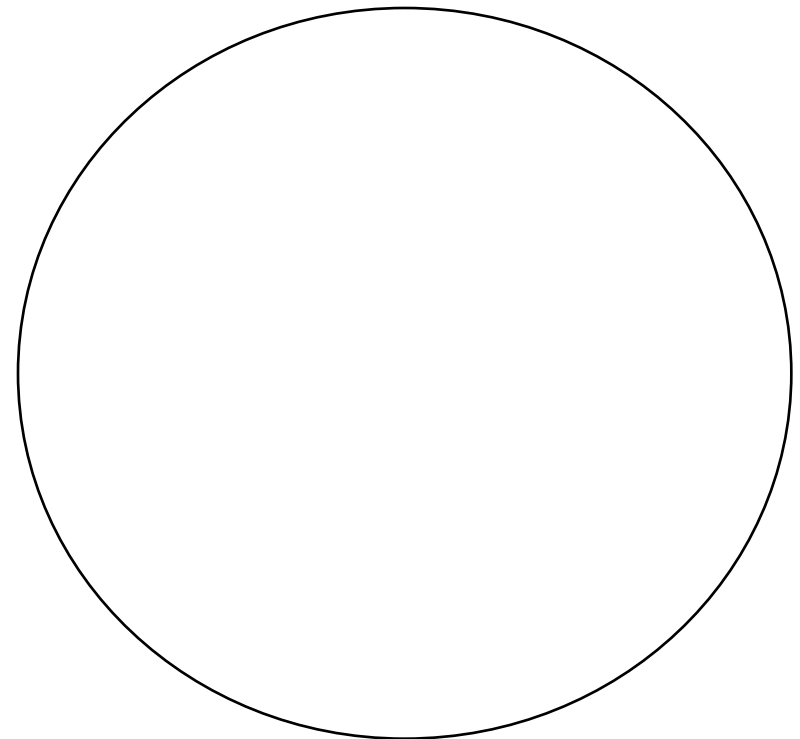
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 066

Name/Designation C-66
NGC # 5694

Seen?
Date

Type Globular Cluster
Constellation Hydra
Magnitude 10.2
RA 14 39.6

Size 3.6
Dec -26 32

Hemisphere Either
Season Early Spring

Sky Atlas 2000 page 21 Other Chart Page(s)

Description

Observing Notes

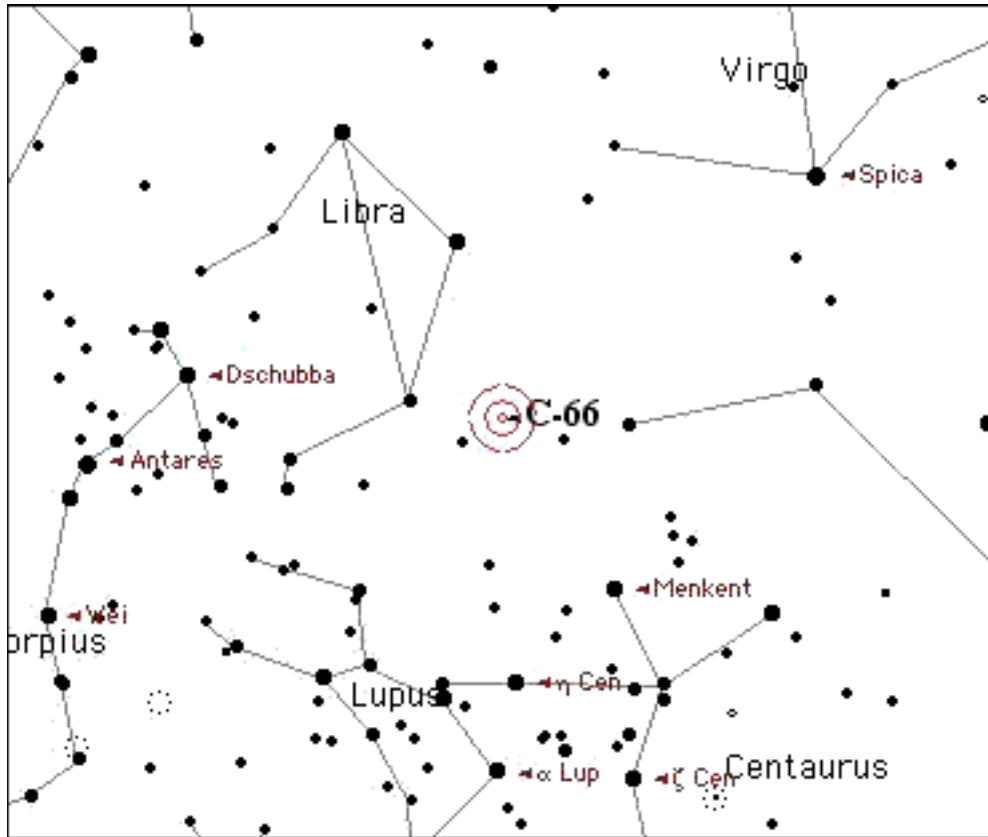
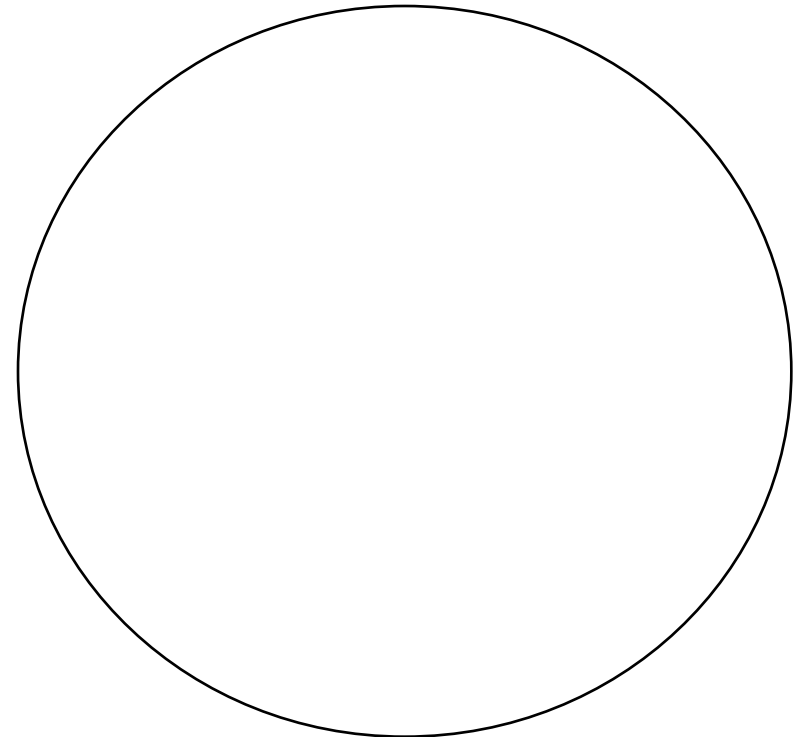
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 067

Name/Designation C-67
NGC # 1097

Seen?
Date

Type Galaxy
Constellation Fornax
Magnitude 9.2 *Size* 9 X 6
RA 02 46.3 *Dec* -30 17

Hemisphere Either
Season Fall/Early Winter

Sky Atlas 2000 page 18 *Other Chart Page(s)*

Description

Observing Notes

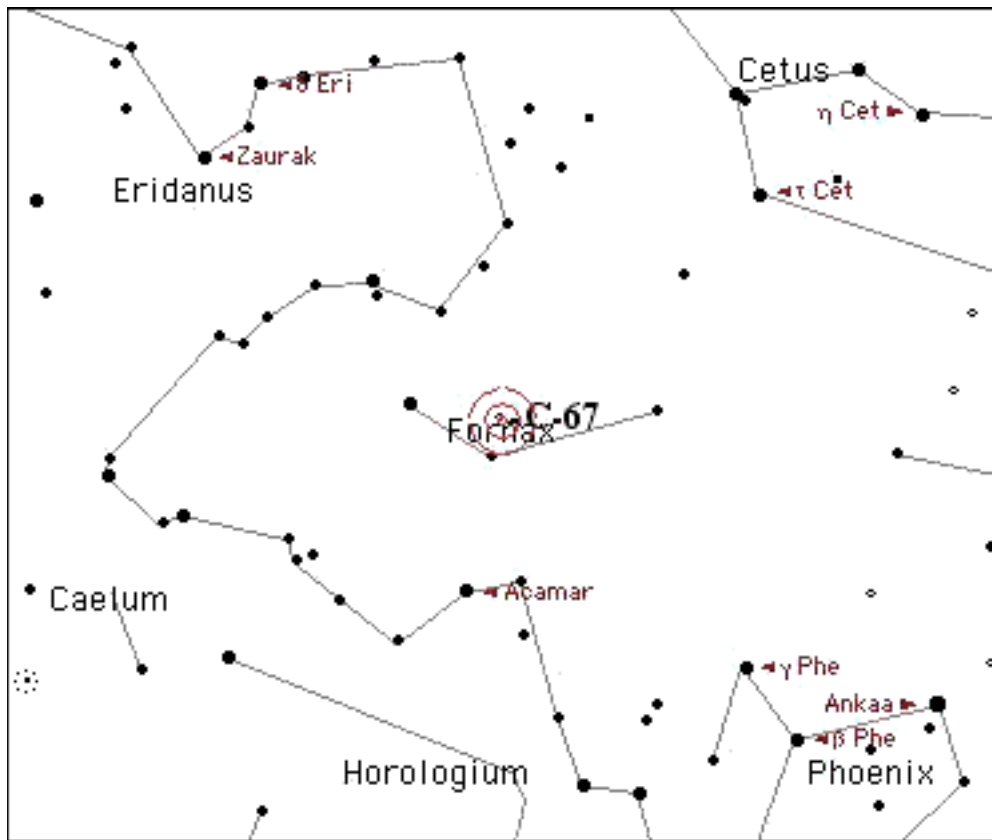
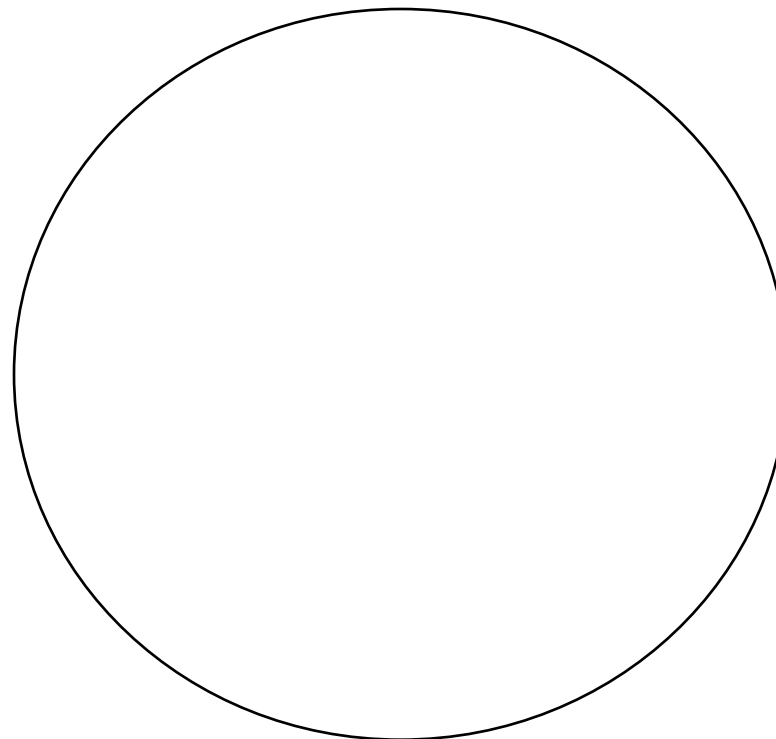
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 068

Name/Designation C-68 (R CrA Nebula)
NGC # 6729

Seen?
Date

Type Diffuse Nebula **Hemisphere** Southern
Constellation Corona Australis **Season** Late Summer
Magnitude **Size** 1
RA 19 01.9 **Dec** -36 57

Sky Atlas 2000 page 22 **Other Chart Page(s)**

Description

Observing Notes

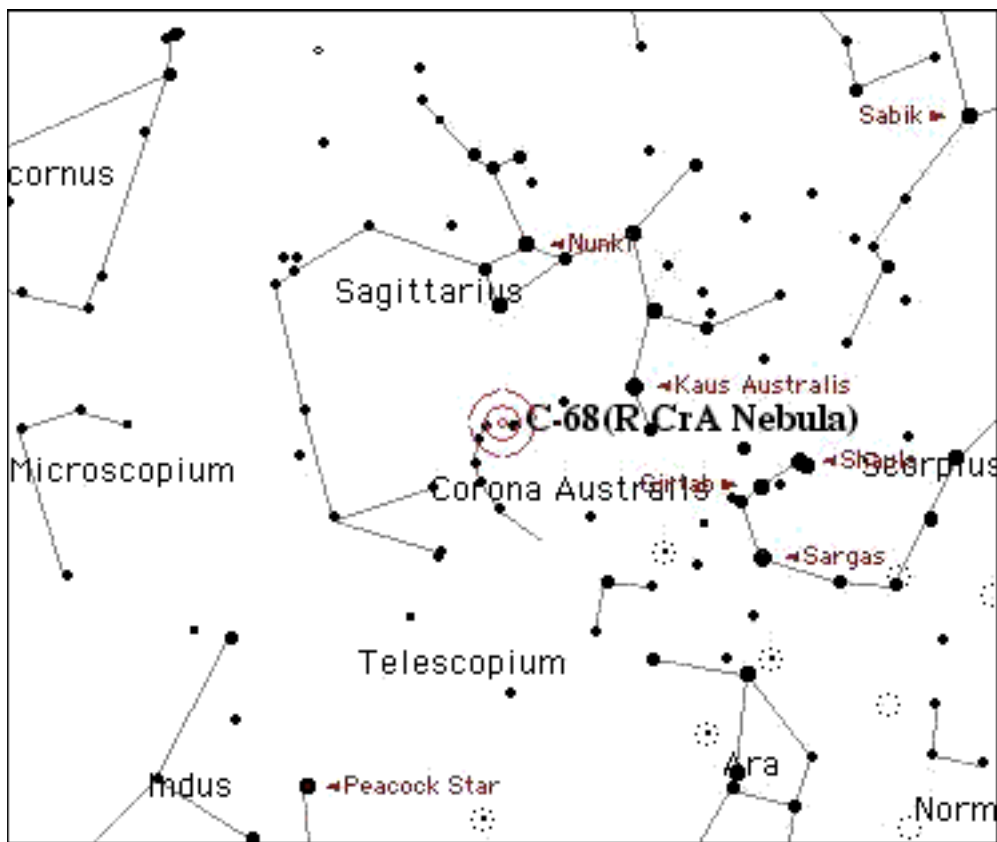
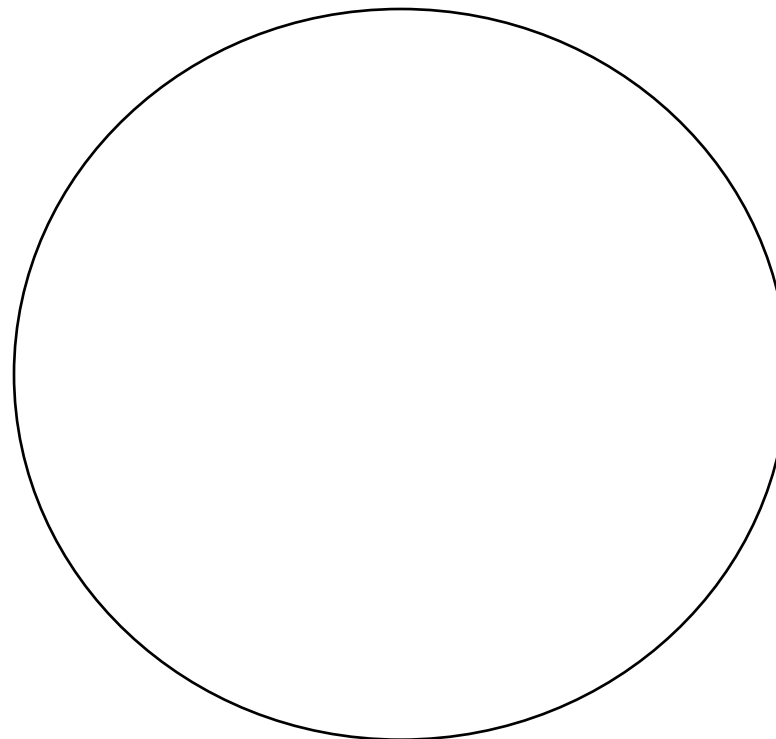
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 069

Name/Designation C-69 (Bug Nebula)
NGC # 6302

Seen?
Date

Type Planetary Nebula
Constellation Scorpius
Magnitude 9.6 *Size* 0.8
RA 17 13.7 *Dec* -37 06

Hemisphere Either
Season Mid-Summer

Sky Atlas 2000 page 22 *Other Chart Page(s)*

Description

Observing Notes

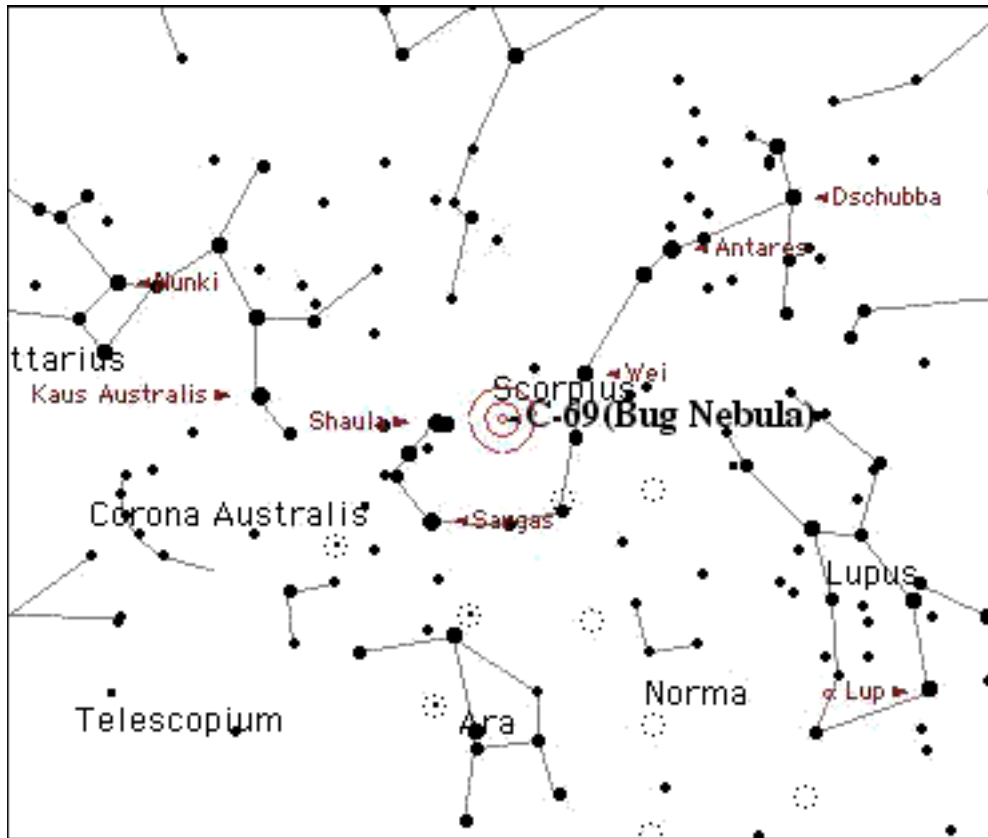
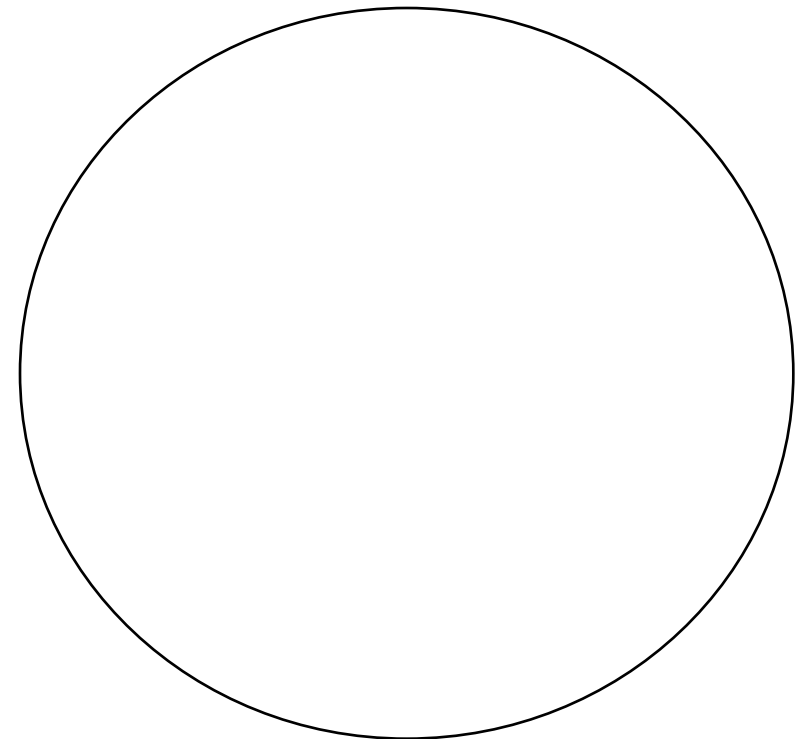
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Caldwell# 070

Name/Designation C-70
NGC # 300

Seen?
Date

Type Galaxy Hemisphere Either
Constellation Sculptor Season Fall/Early Winter
Magnitude 8.7 Size 20 X 13
RA 00 54.9 Dec -37 41

Sky Atlas 2000 page 18 Other Chart Page(s)

Description

Observing Notes

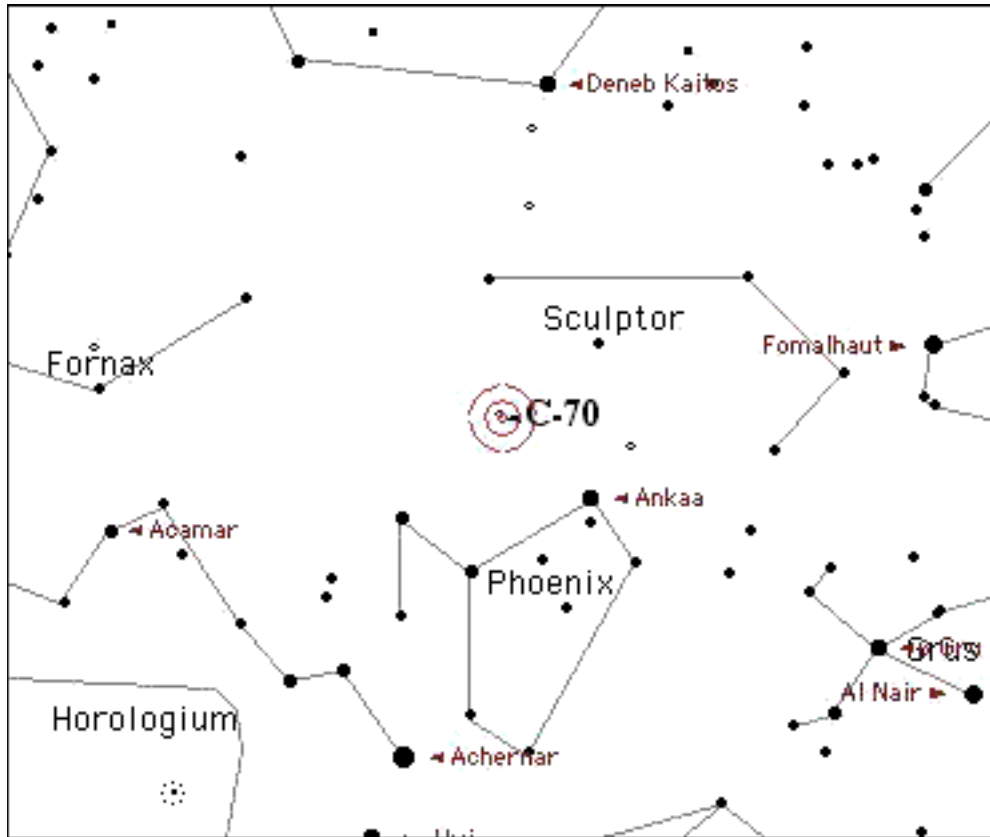
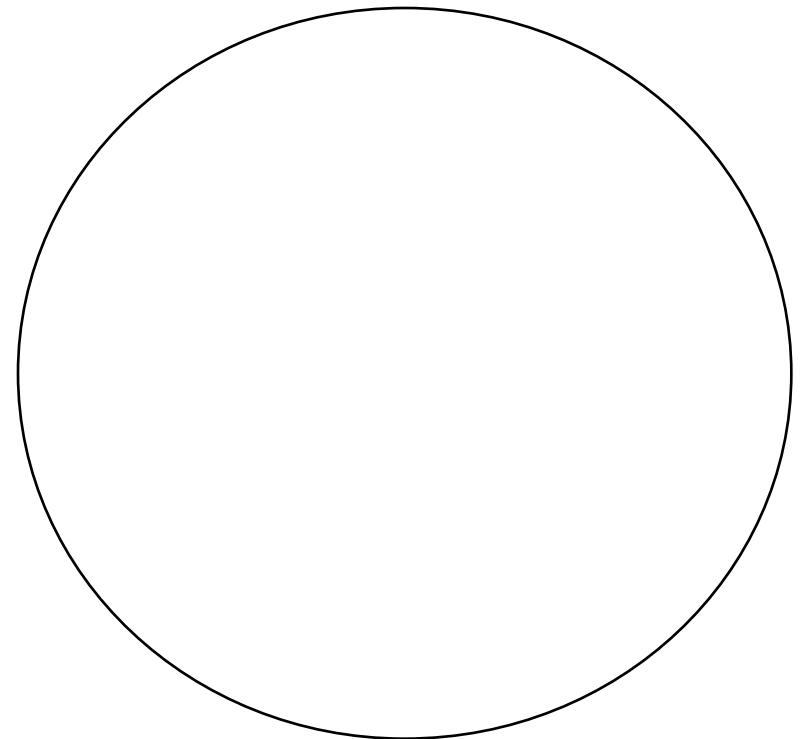
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 071

Name/Designation C-71
NGC # 2477

Seen?
Date

Type Open Cluster
Constellation Puppis
Magnitude 5.8
RA 07 52.3

Size 27
Dec -38 33

Hemisphere Either
Season Winter

Sky Atlas 2000 page 19 Other Chart Page(s)

Description

Observing Notes

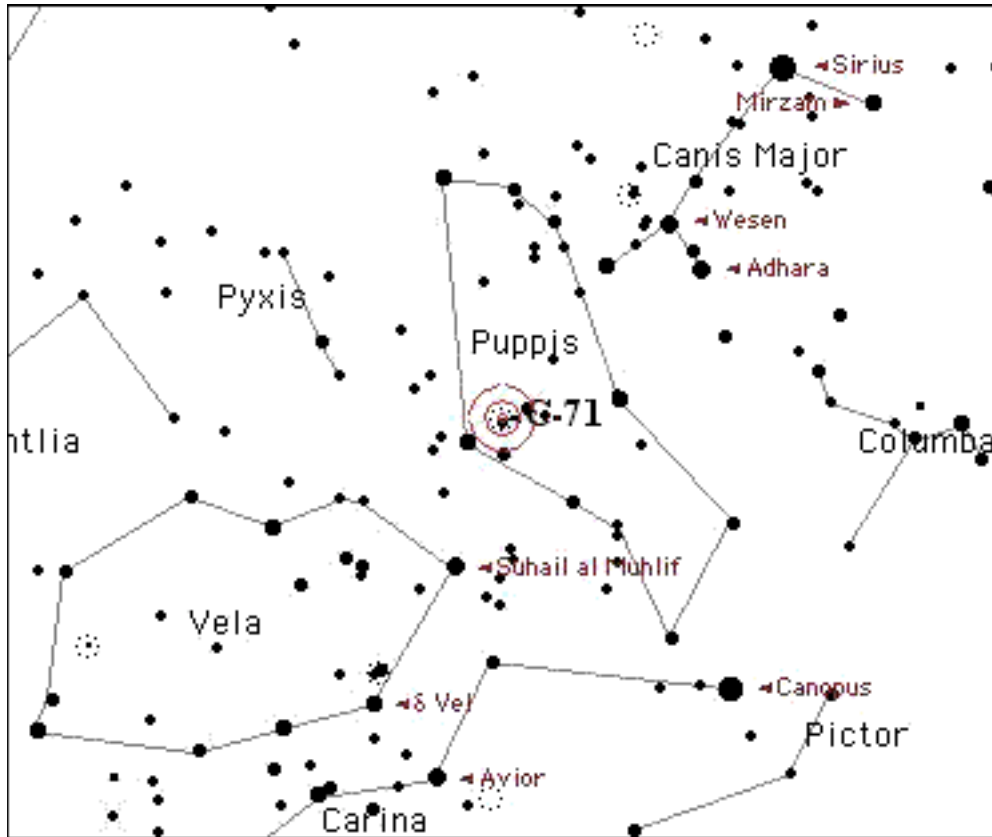
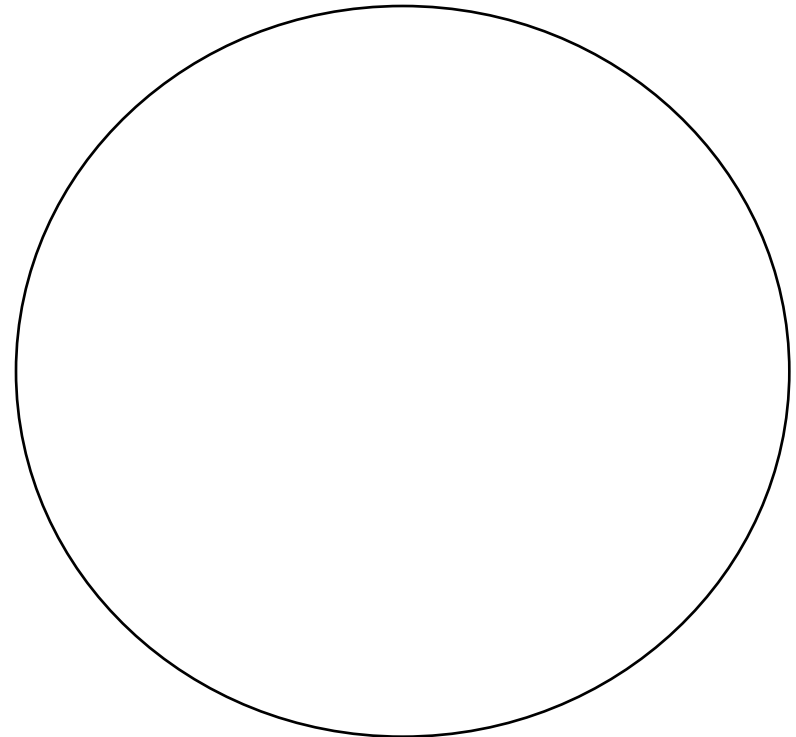
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Caldwell# 072

Name/Designation C-72 (In Sculptor Group)
NGC # 55

Seen?
Date

Type Galaxy
Constellation Sculptor
Magnitude 7.9
RA 00 14.9
Hemisphere Either
Season Fall/Early Winter
Size 32 X 6
Dec -39 11

Sky Atlas 2000 page 18 **Other Chart Page(s)**

Description

Observing Notes

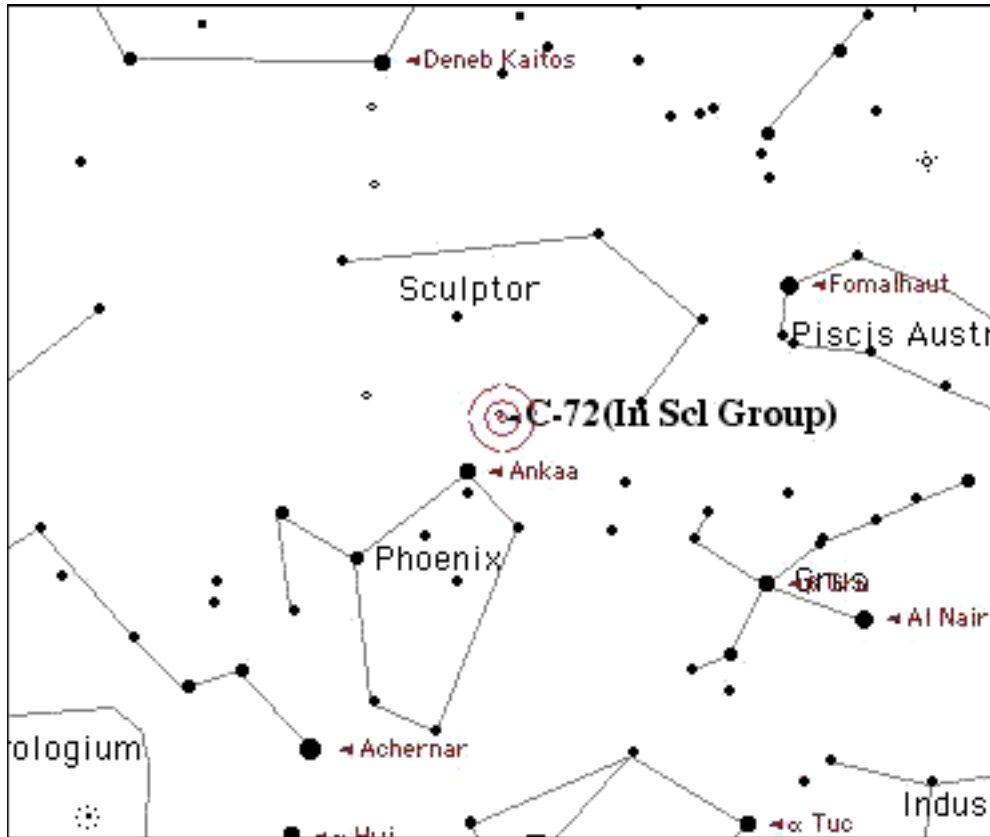
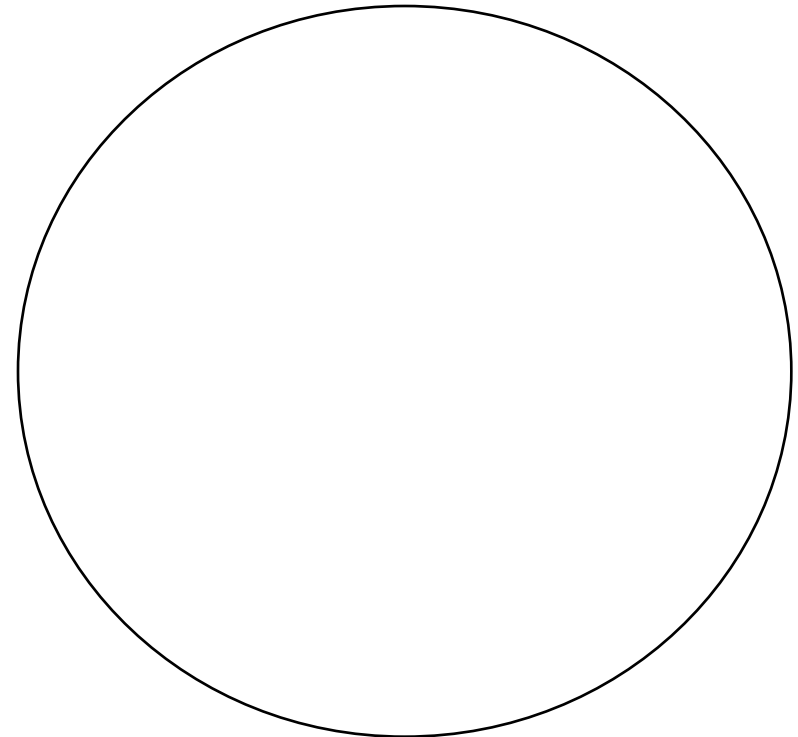
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 073

Name/Designation C-73
NGC # 1851

Seen?
Date

Type Globular Cluster Hemisphere Southern
Constellation Columba Season Winter
Magnitude 7.3 Size 11
RA 05 14.1 Dec -40 03

Sky Atlas 2000 page 19 Other Chart Page(s)

Description

Observing Notes

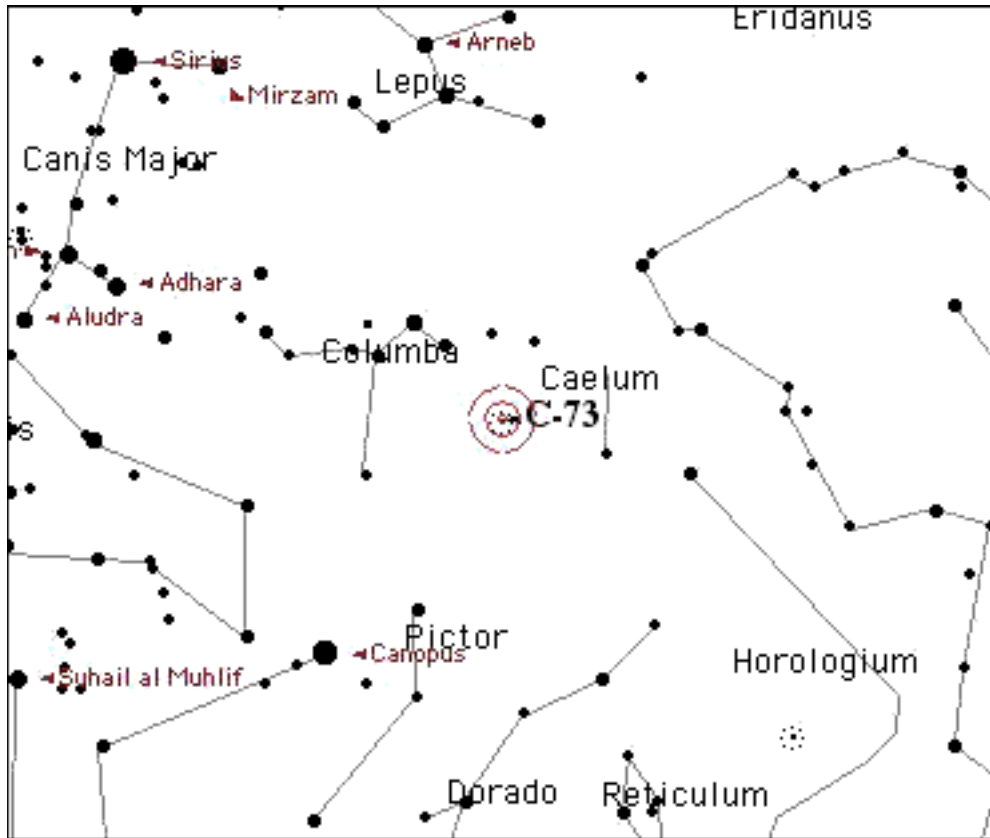
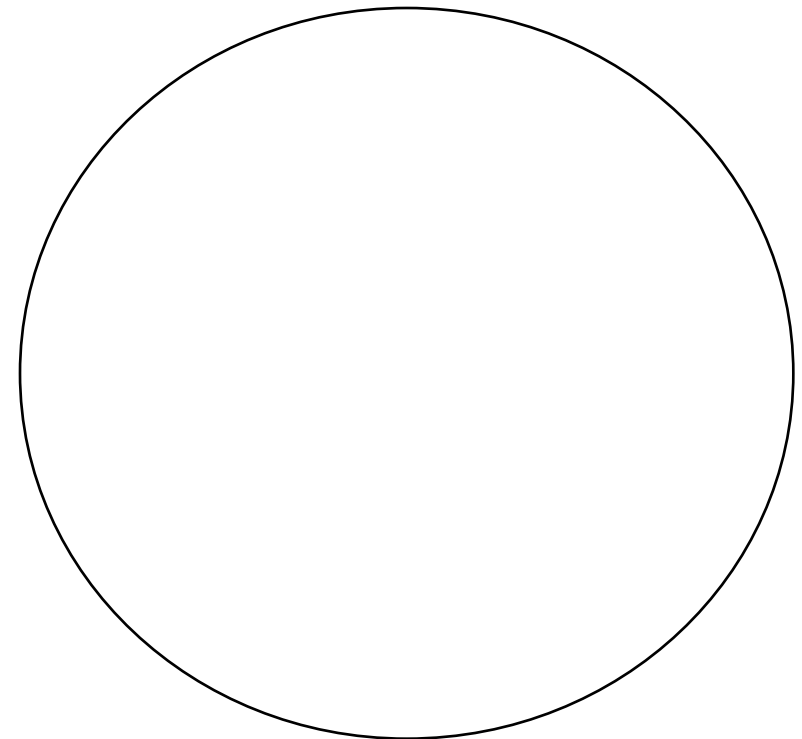
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 074

Name/Designation C-74
NGC # 3132

Seen?
Date

Type Planetary Nebula
Constellation Vela
Magnitude 9.4 Size 0.8
RA 10 07.7 Dec -40 26

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 20 Other Chart Page(s)

Description

Observing Notes

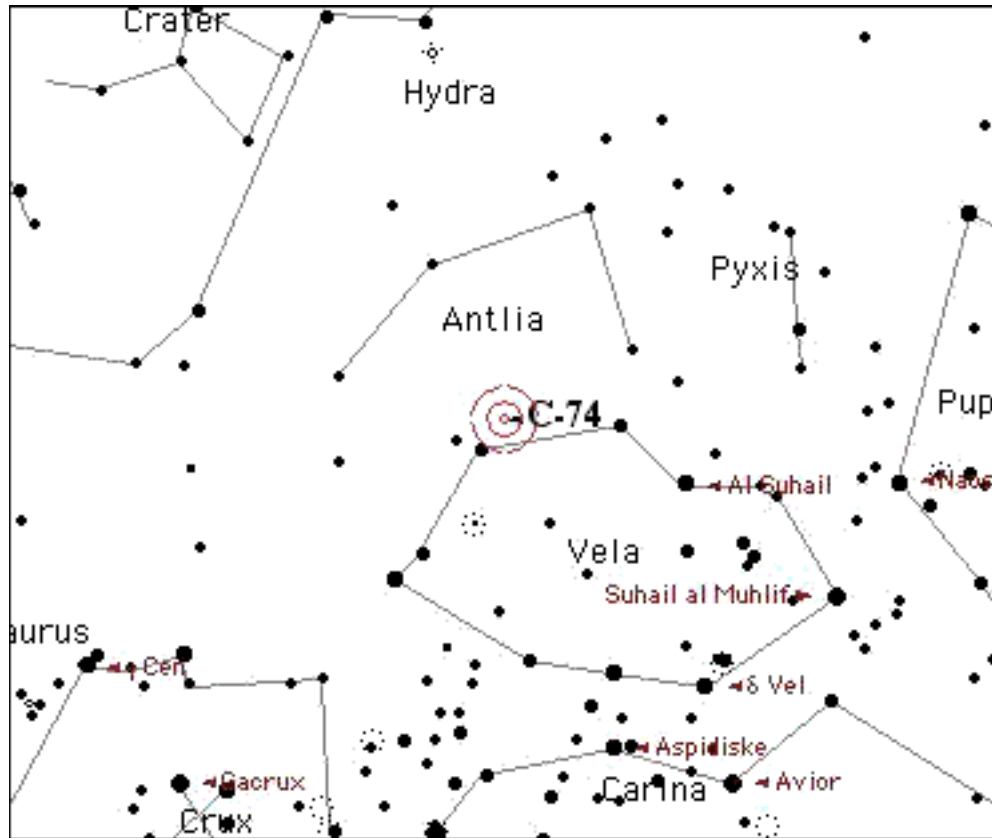
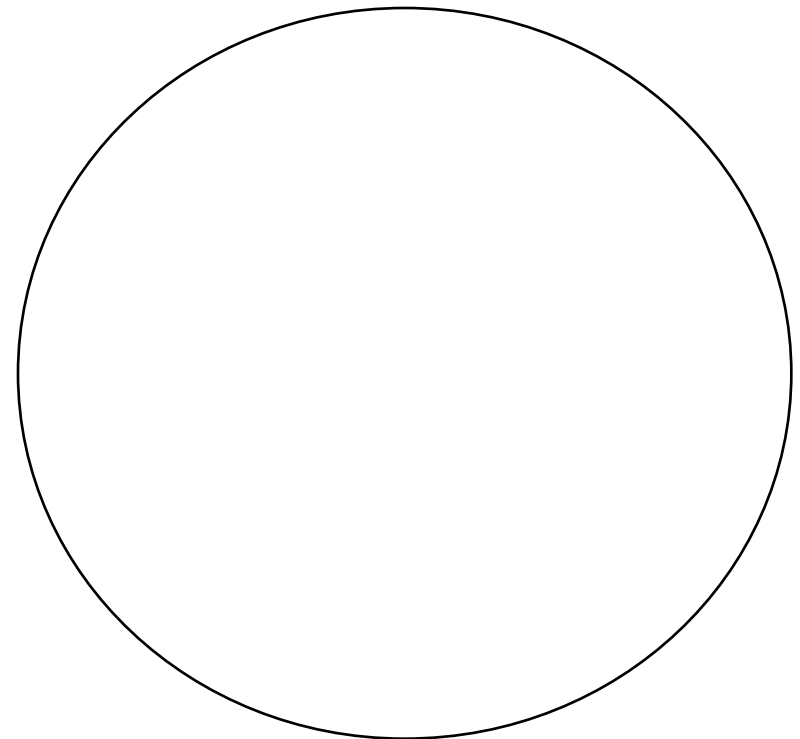
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 075

Name/Designation C-75
NGC # 6124

Seen?
Date

Type Open Cluster
Constellation Scorpius
Magnitude 5.8 *Size* 29
RA 16 25.6 *Dec* -40 40

Hemisphere Either
Season Mid-Summer

Sky Atlas 2000 page 22 *Other Chart Page(s)*

Description

Observing Notes

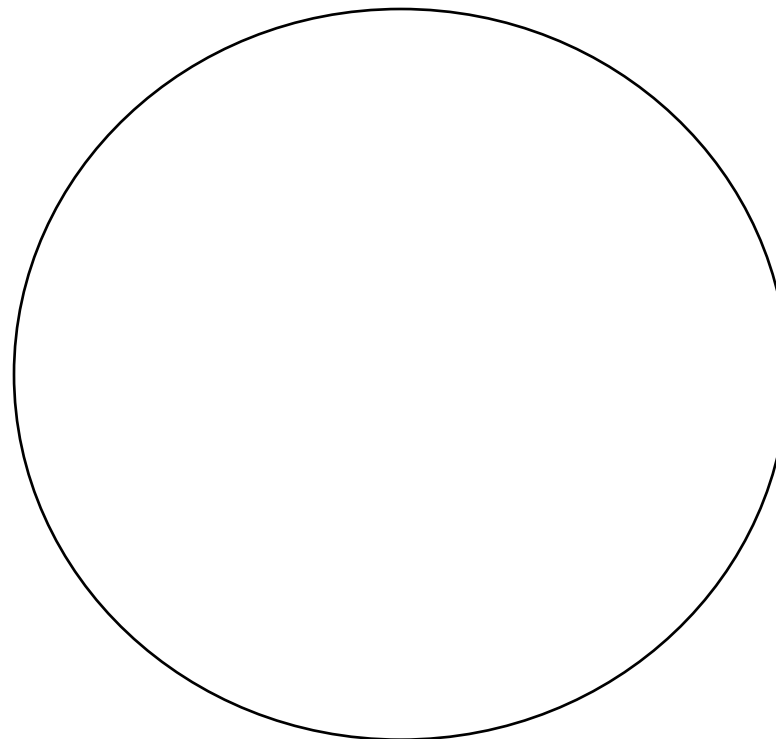
Viewing Time Comments

Observing Site

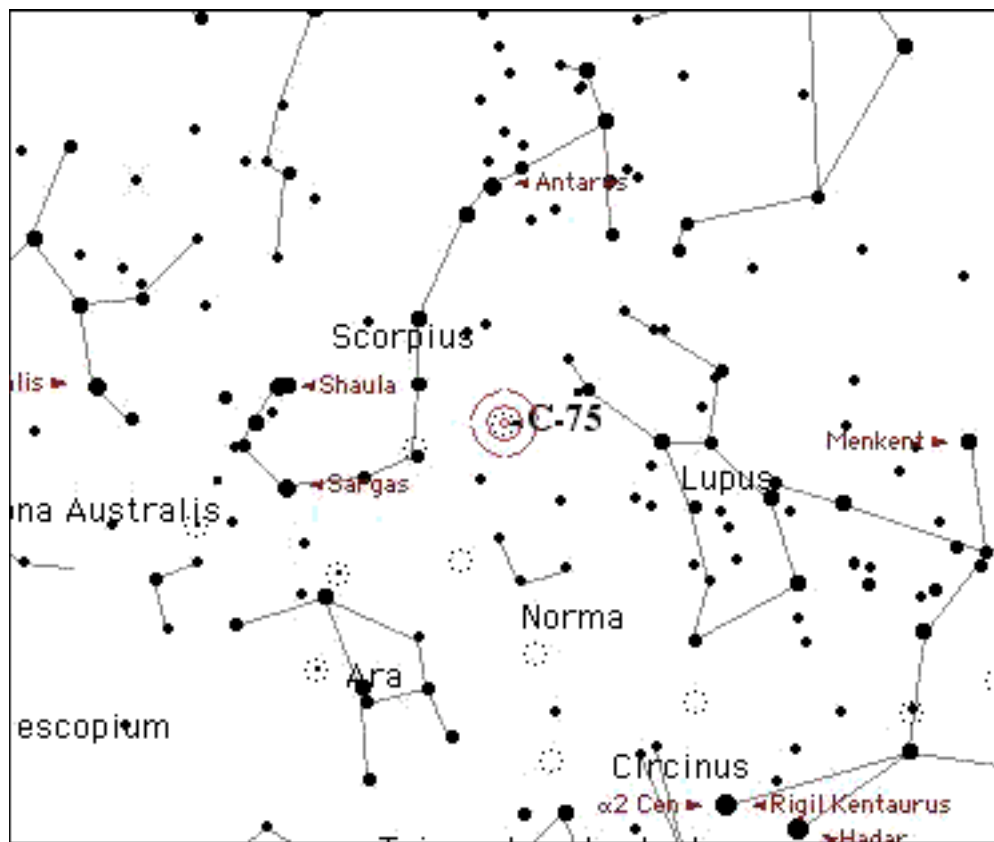
Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 076

Name/Designation C-76
NGC # 6231

Seen?
Date

Type Open Cluster
Constellation Scorpius
Magnitude 2.6 Size 15
RA 16 54.0 Dec -41 48

Hemisphere Either
Season Mid-Summer

Sky Atlas 2000 page 22 Other Chart Page(s)

Description

Observing Notes

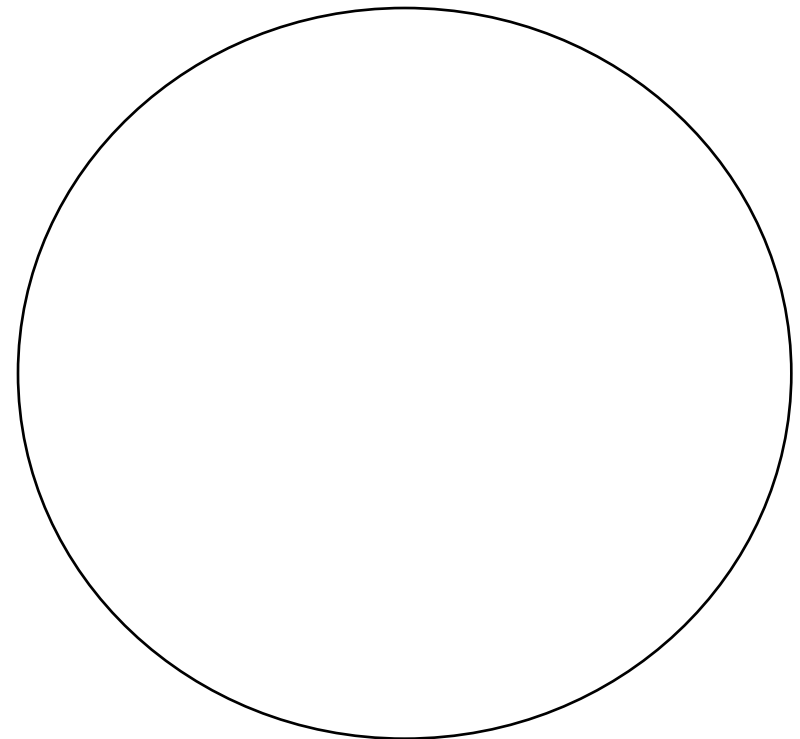
Viewing Time Comments

Observing Site

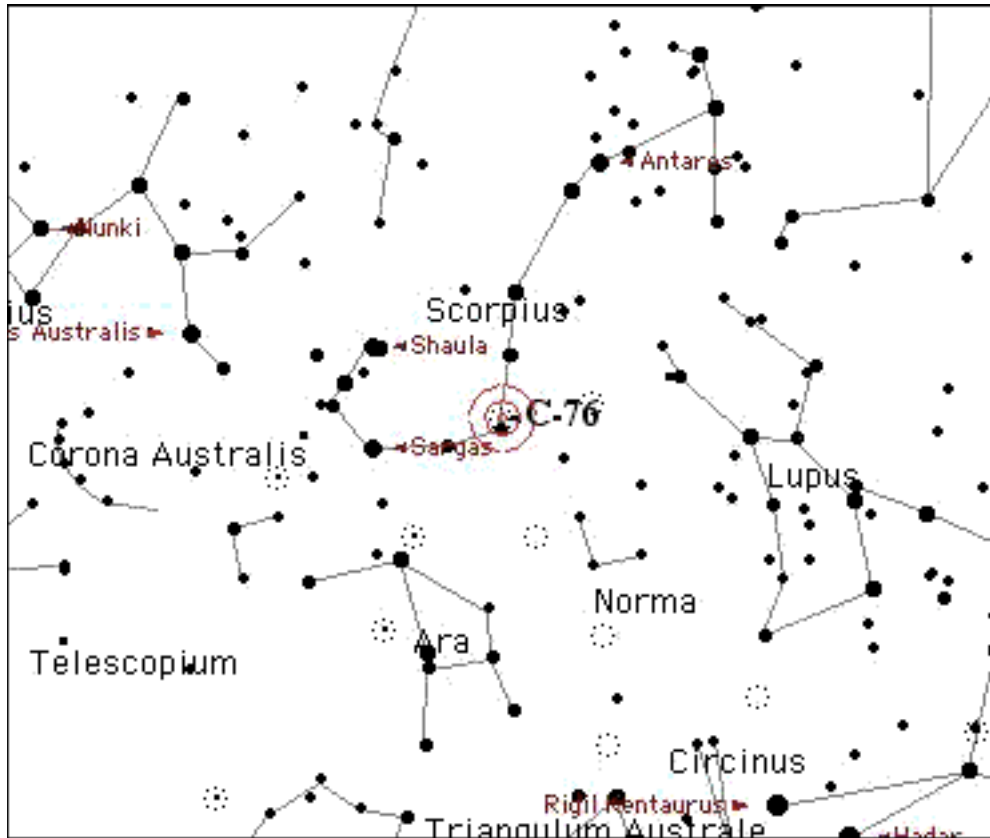
Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software



Caldwell# 077

Name/Designation C-77 (Centaurus A)
NGC # 5128

Seen?
Date

Type Galaxy
Constellation Centaurus
Magnitude 7
RA 13 25.5
Hemisphere Southern
Season Late Spring
Size 18 X 14
Dec -43 01

Sky Atlas 2000 page 21 **Other Chart Page(s)**

Description

Observing Notes

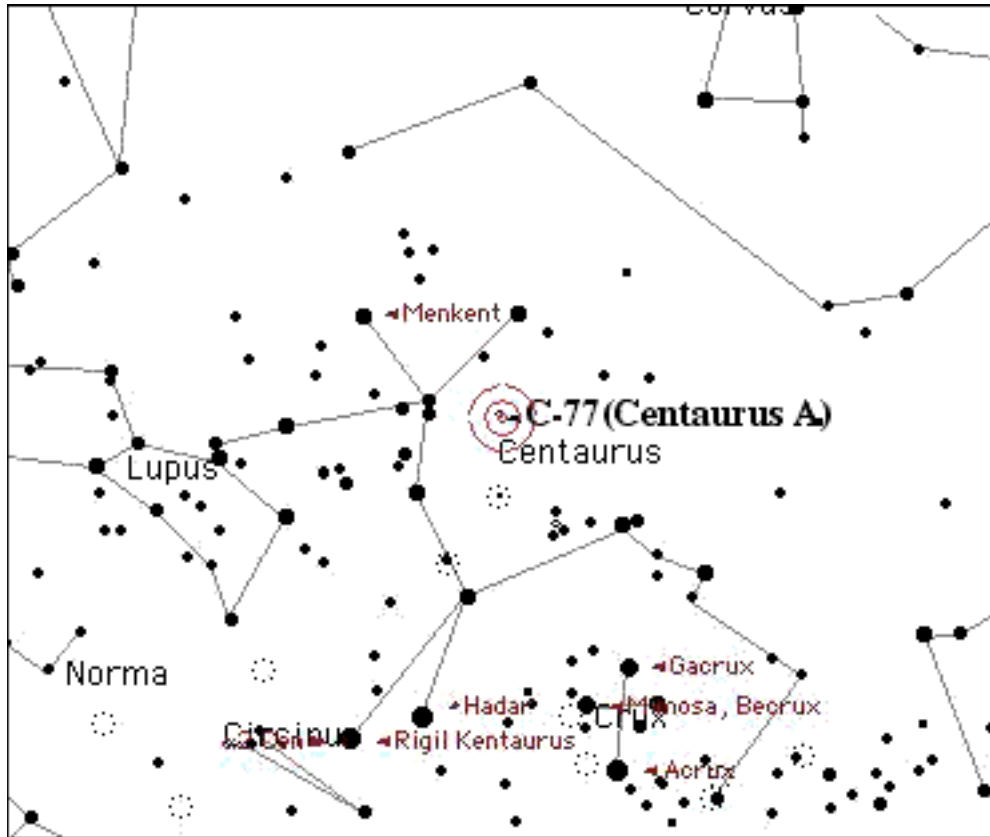
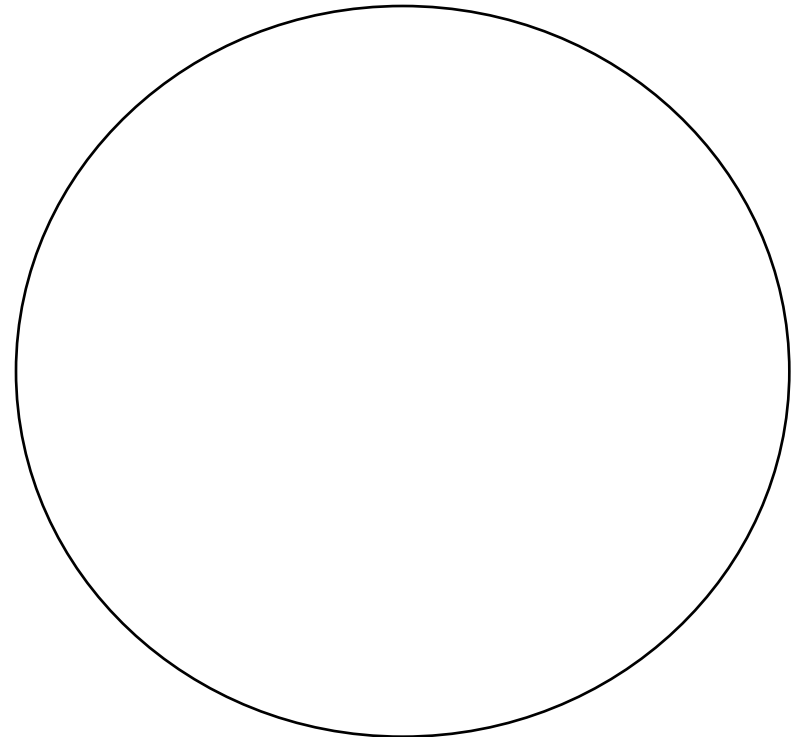
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Caldwell# 078

Name/Designation C-78
NGC # 6541

Seen?
Date

Type Globular Cluster **Hemisphere** Southern
Constellation Corona Australis **Season** Late Summer
Magnitude 6.6 **Size** 13
RA 18 08.0 **Dec** -43 42

Sky Atlas 2000 page 22 **Other Chart Page(s)**

Description

Observing Notes

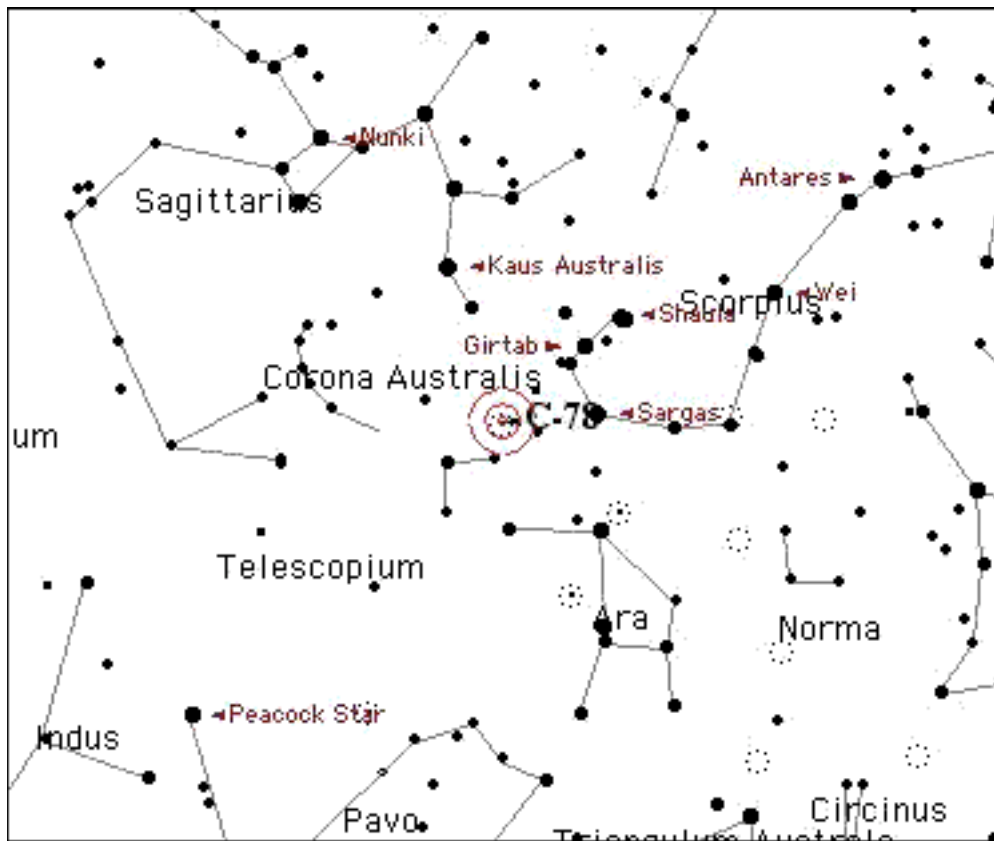
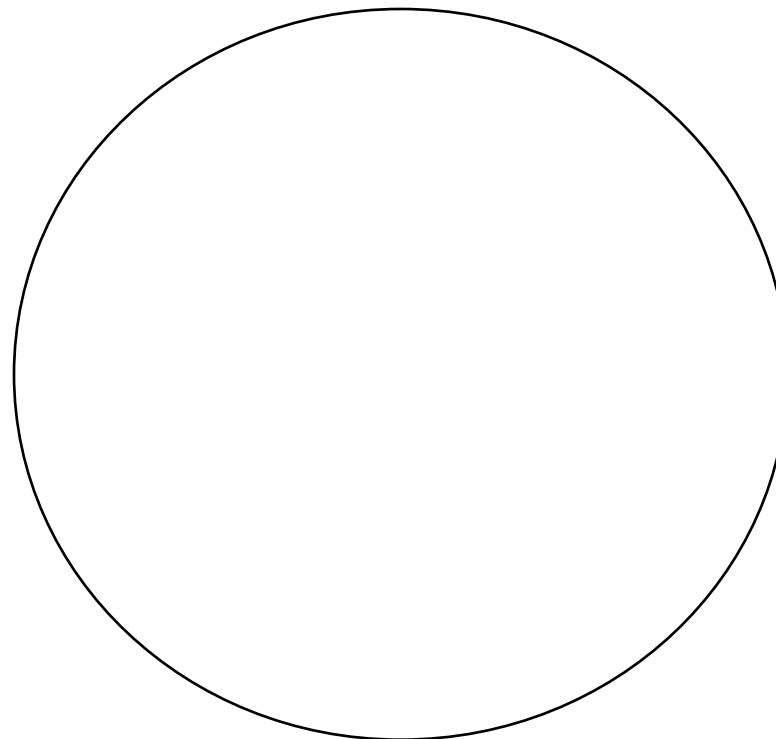
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 079

Name/Designation C-79
NGC # 3201

Seen?
Date

Type Globular Cluster

Hemisphere Southern

Constellation Vela

Season Late Spring

Magnitude 6.7 Size 18

RA 10 17.6 Dec -46 25

Sky Atlas 2000 page 20 Other Chart Page(s)

Description

Observing Notes

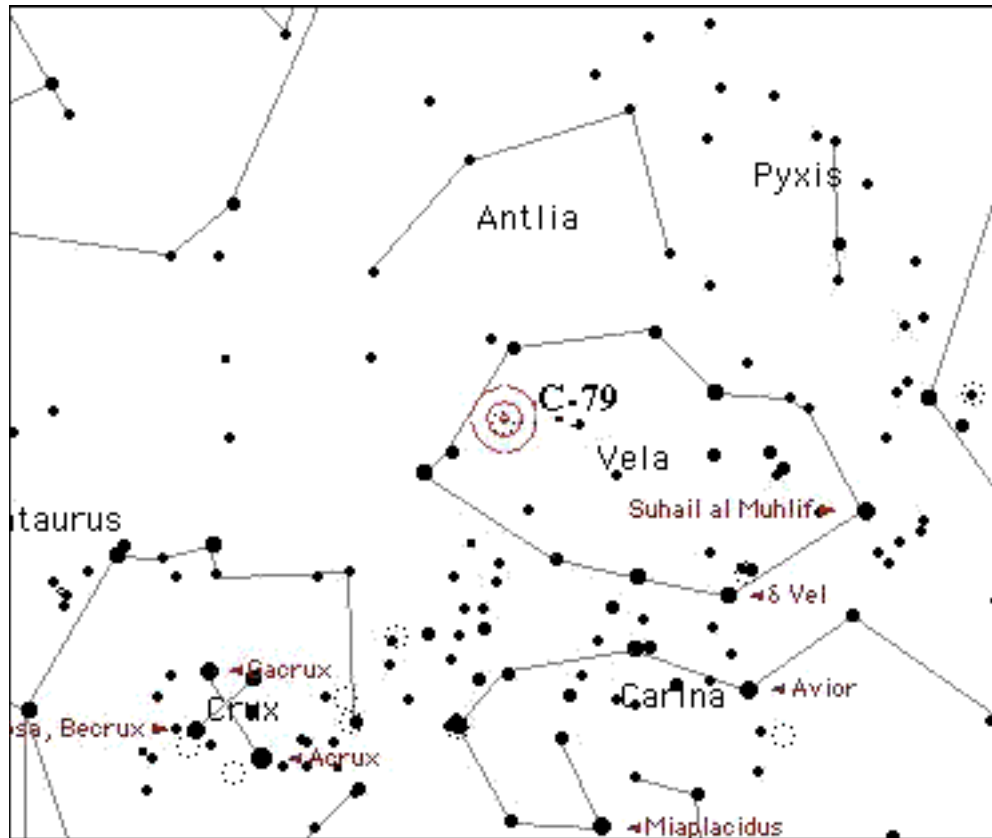
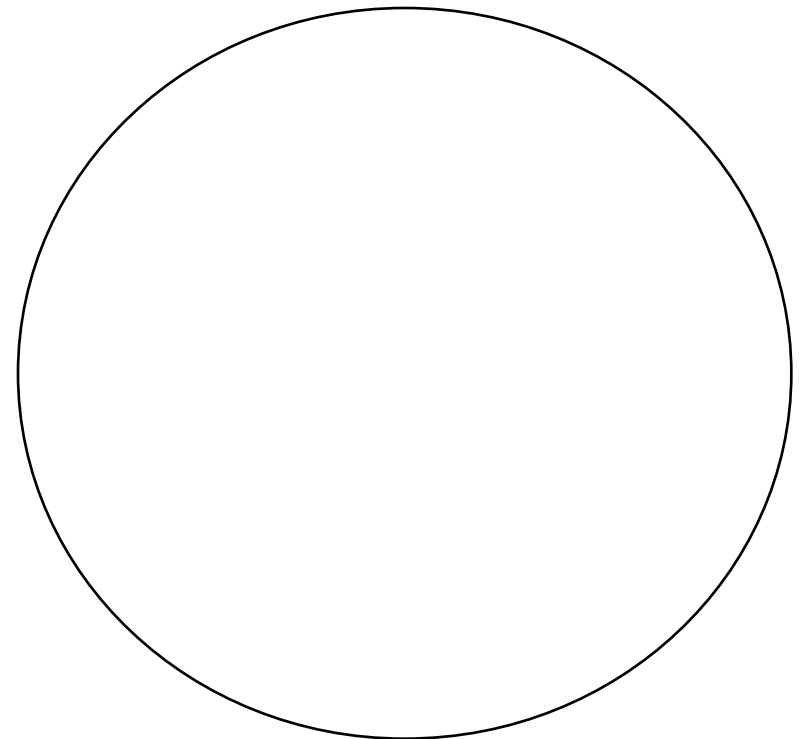
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 080

Name/Designation C-82 (Omega Centauri)
NGC # 5139

Seen?
Date

Type Globular Cluster *Hemisphere* Southern
Constellation Centaurus *Season* Late Spring
Magnitude 3.6 *Size* 36
RA 13 26.8 *Dec* -47 29

Sky Atlas 2000 page 21 *Other Chart Page(s)*

Description

Observing Notes

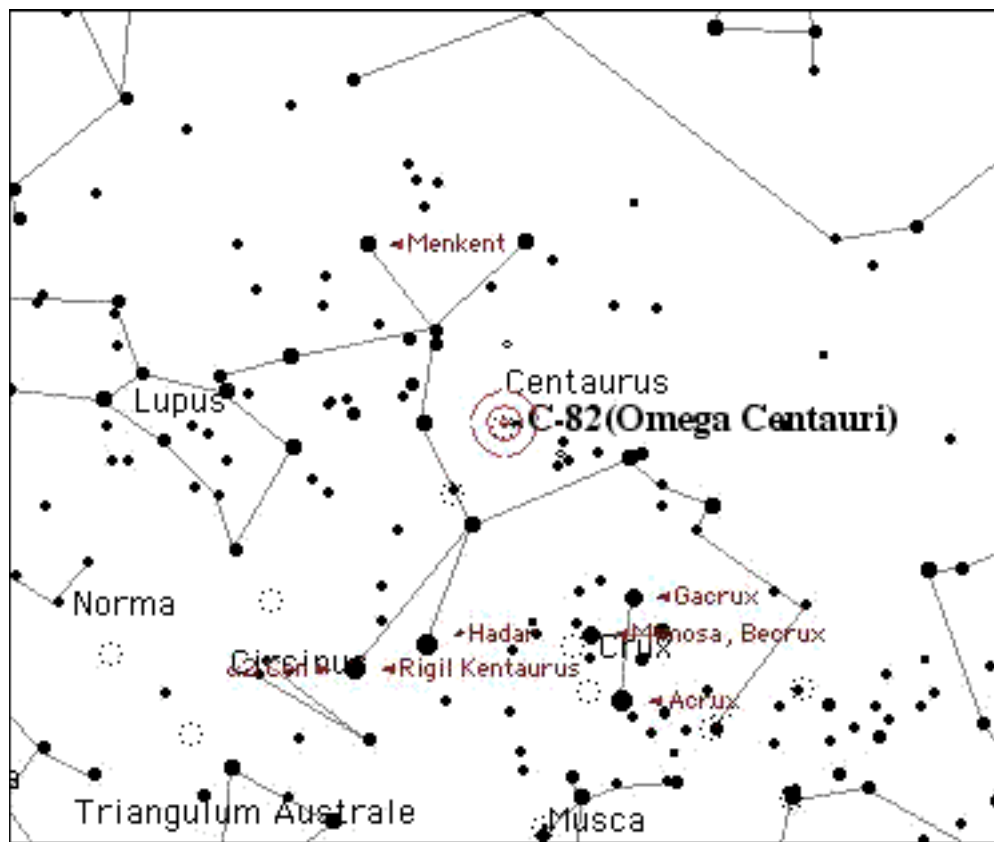
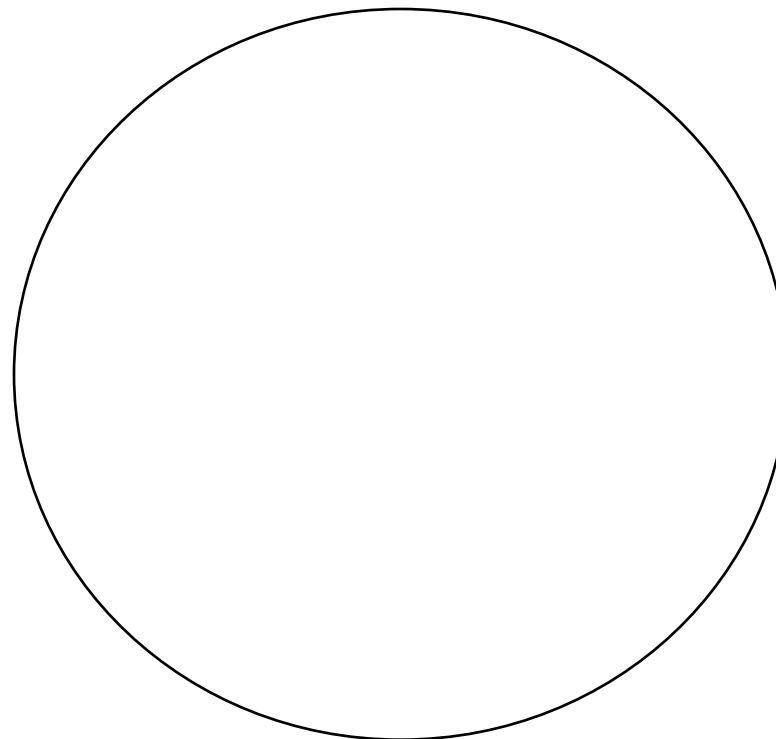
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 081

Name/Designation C-81
NGC # 6352

Seen?
Date

Type Globular Cluster *Hemisphere* Southern
Constellation Ara *Season* Late Spring
Magnitude 8.1 *Size* 7
RA 17 25.5 *Dec* -48 25

Sky Atlas 2000 page 22 *Other Chart Page(s)*

Description

Observing Notes

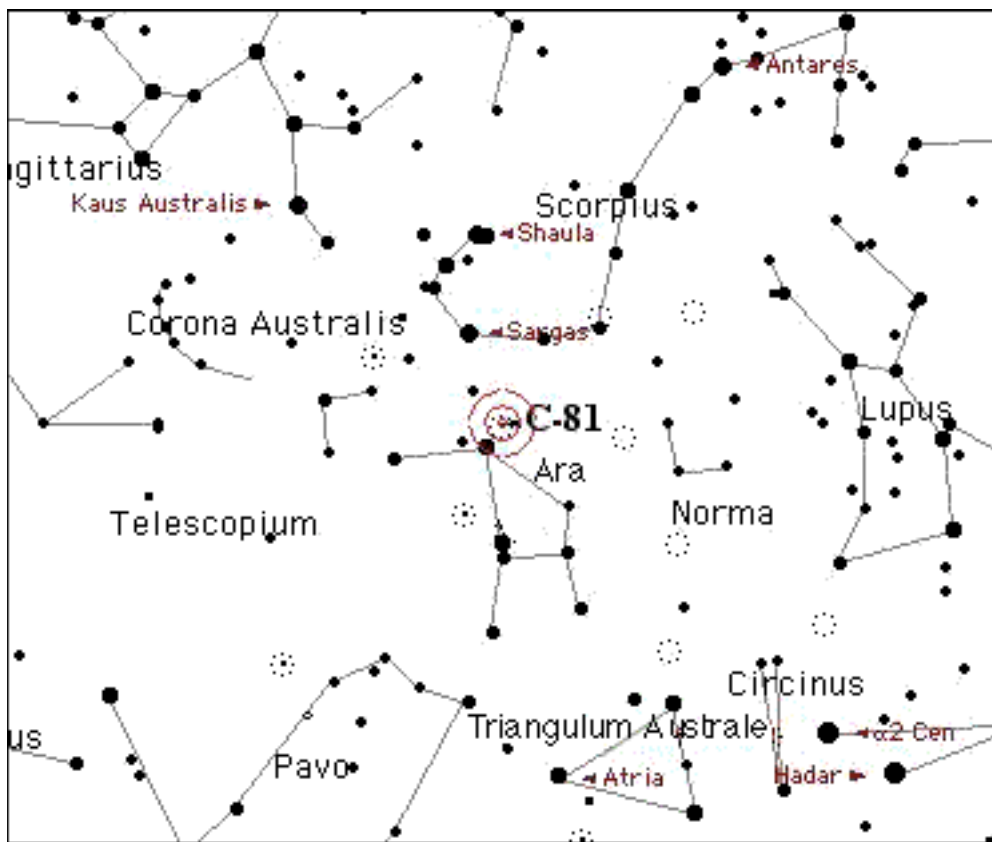
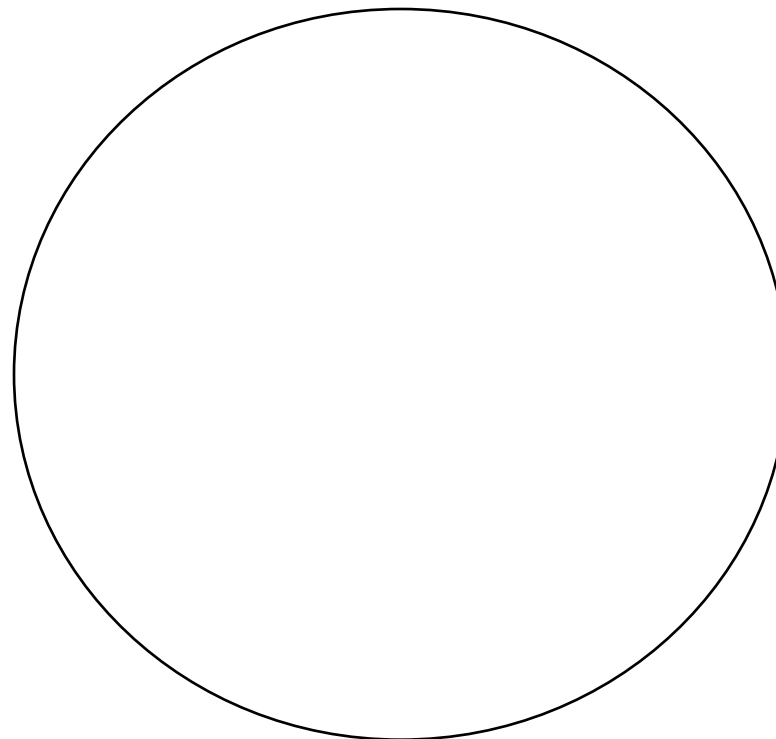
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 082

Name/Designation C-82
NGC # 6193

Seen?
Date

Type Open Cluster
Constellation Ara
Magnitude 5.2 **Size** 15
RA 16 41.3 **Dec** -48 46

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 22 **Other Chart Page(s)**

Description

Observing Notes

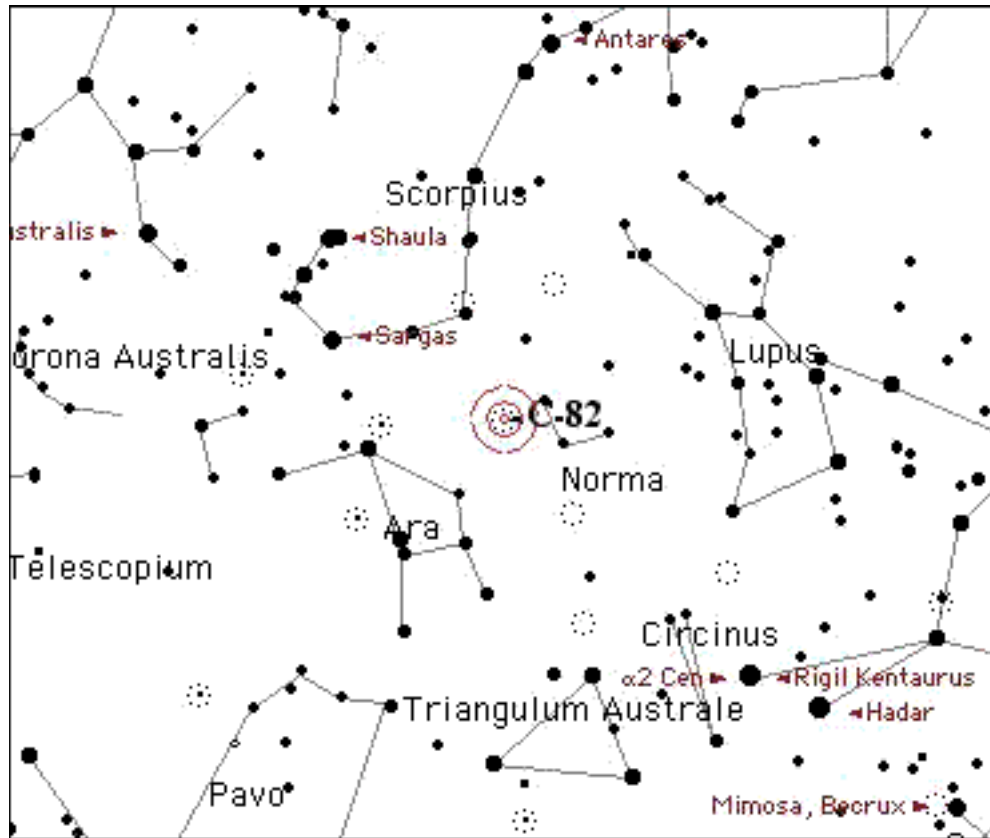
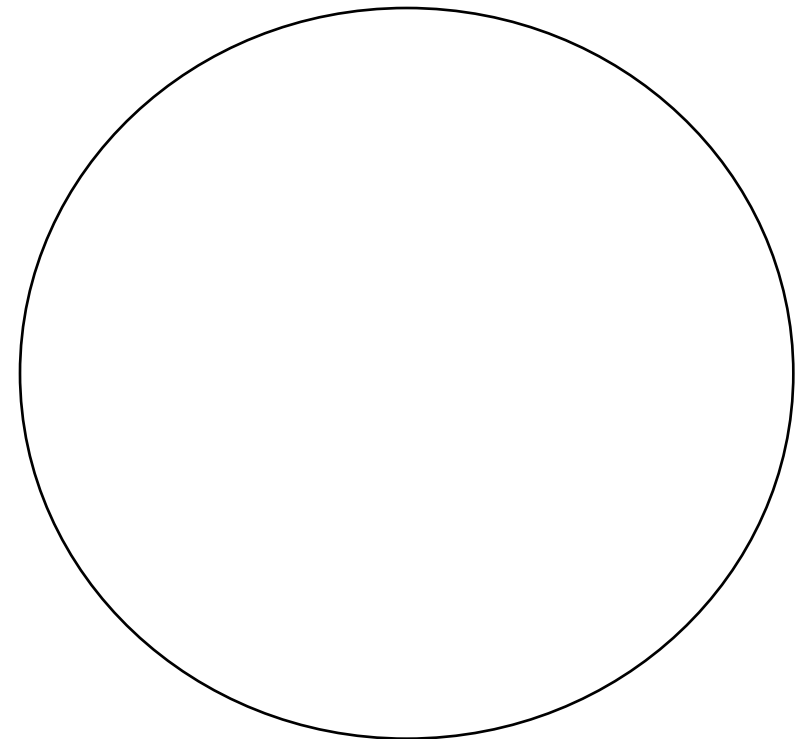
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Caldwell# 083

Name/Designation C-83
NGC # 4945

Seen?
Date

Type Galaxy
Constellation Centaurus
Magnitude 8.7 Size 20 X 4
RA 13 05.4 Dec -49 28

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 21 Other Chart Page(s)

Description

Observing Notes

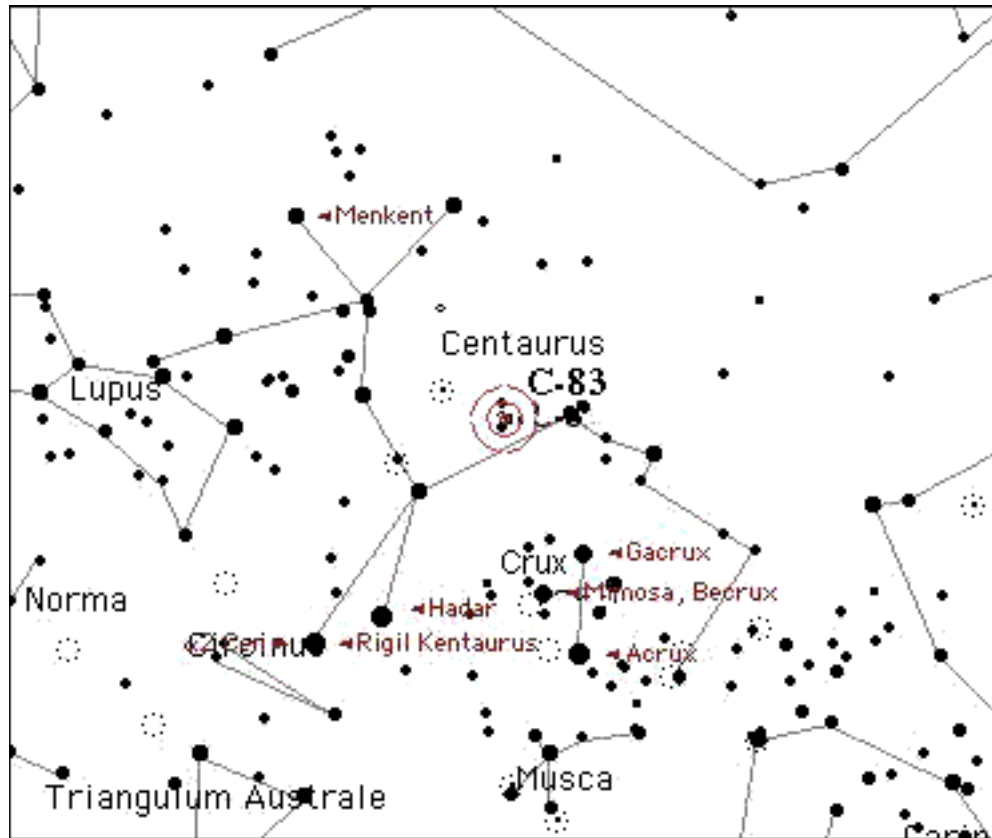
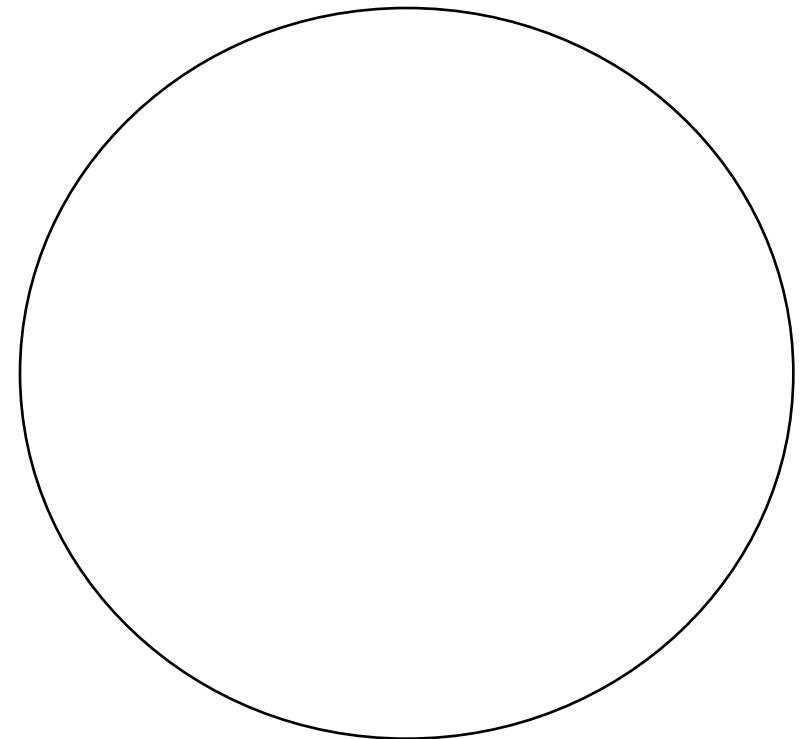
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Caldwell# 084

Name/Designation C-84
NGC # 5286

Seen?
Date

Type Globular Cluster
Constellation Centaurus
Magnitude 7.6 Size 9
RA 13 46.4 Dec -51 22

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 21 Other Chart Page(s)

Description

Observing Notes

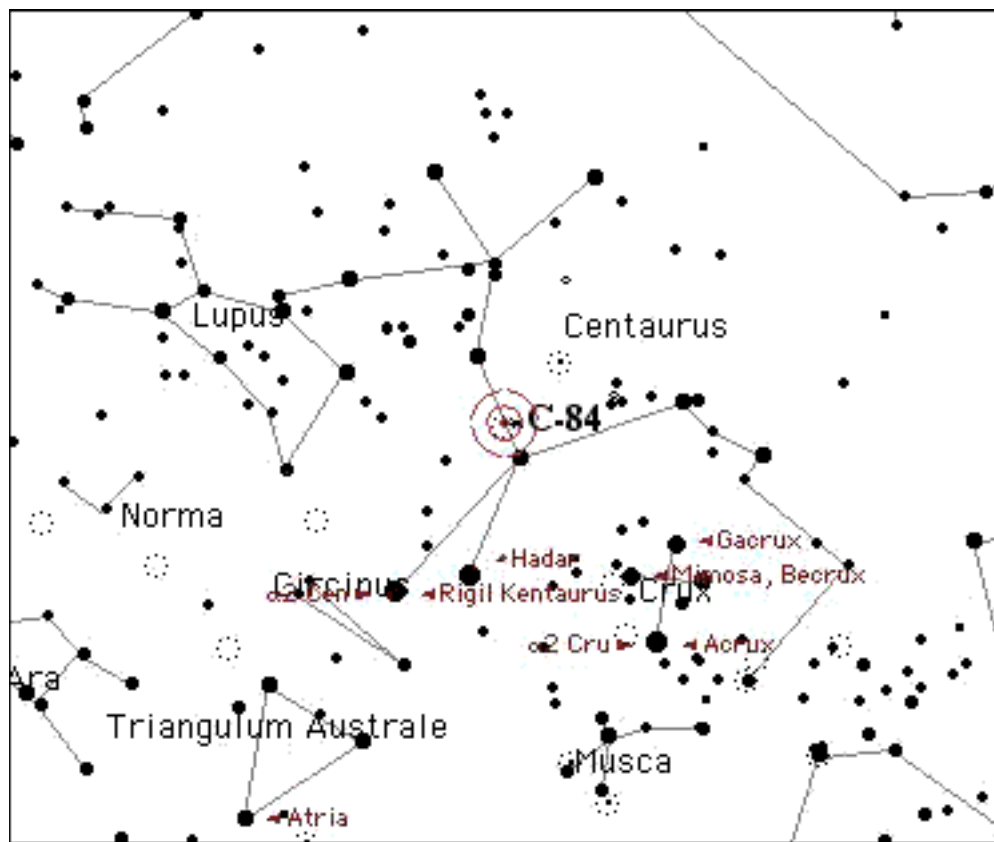
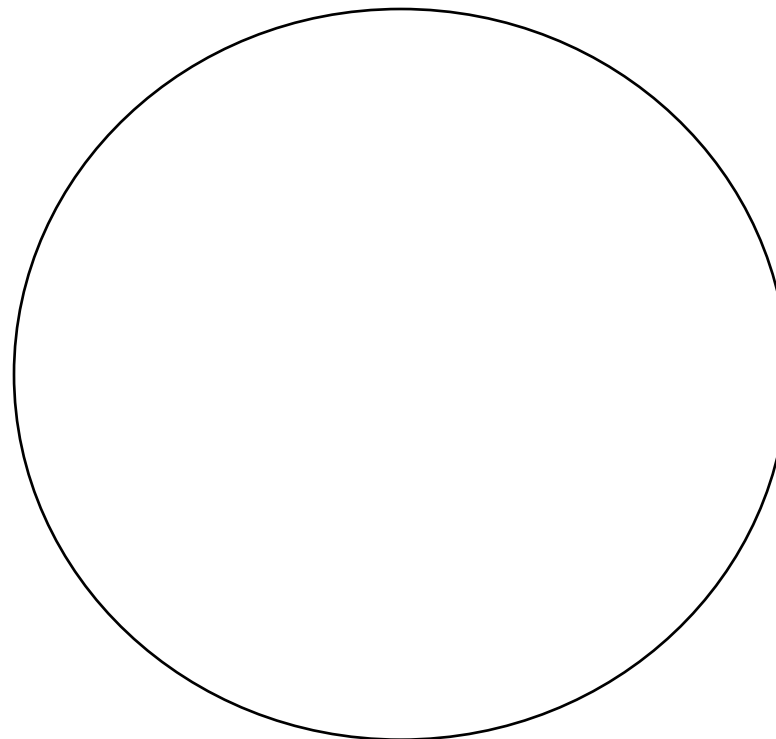
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 085

Name/Designation
NGC #

C-85 (Omicron Velorum Cluster)
IC 2391

Seen?
Date

Type Open Cluster
Constellation Vela
Magnitude 2.5
RA 08 40.2

Size 50
Dec -53 04

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 20 Other Chart Page(s)

Description

Observing Notes

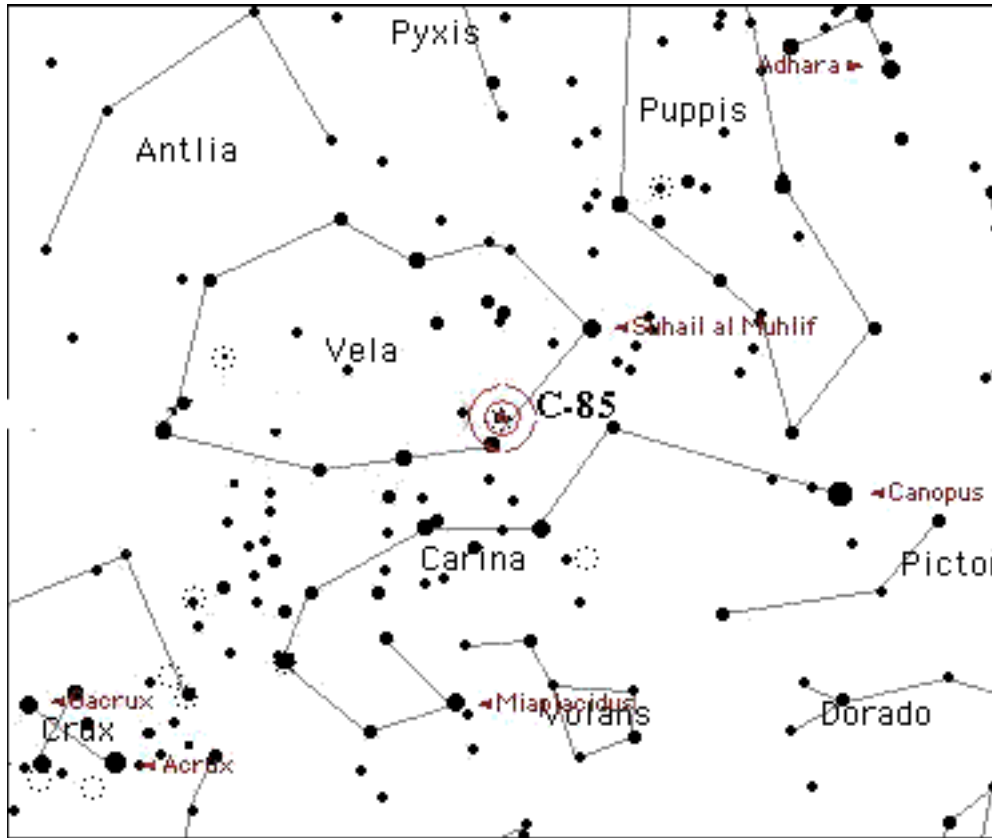
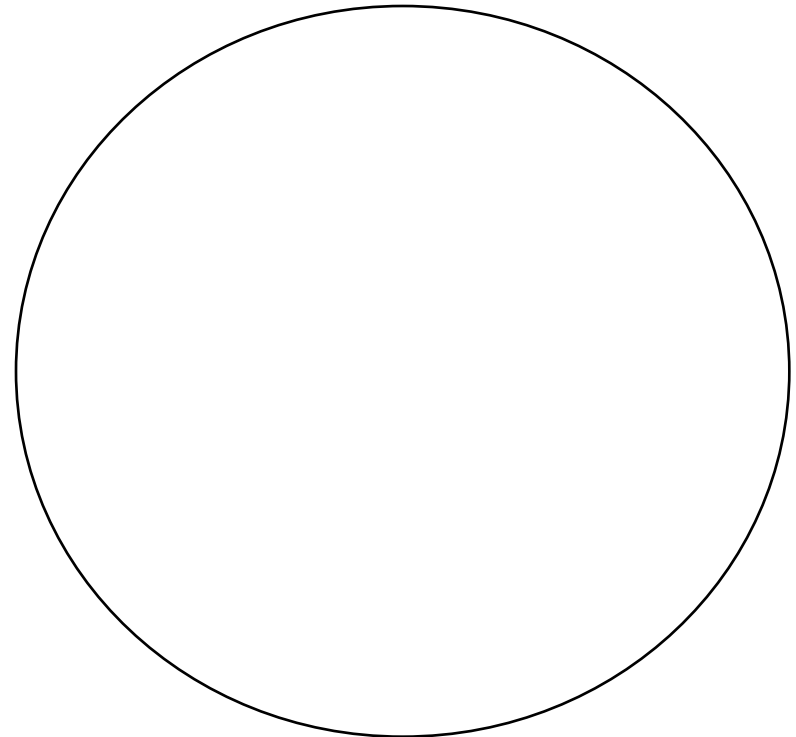
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 086

Name/Designation C-86
NGC # 6397

Seen?
Date

Type Globular Cluster Hemisphere Southern
Constellation Ara Season Late Spring
Magnitude 5.6 Size 26
RA 17 40.7 Dec -53 40

Sky Atlas 2000 page 22 Other Chart Page(s)

Description

Observing Notes

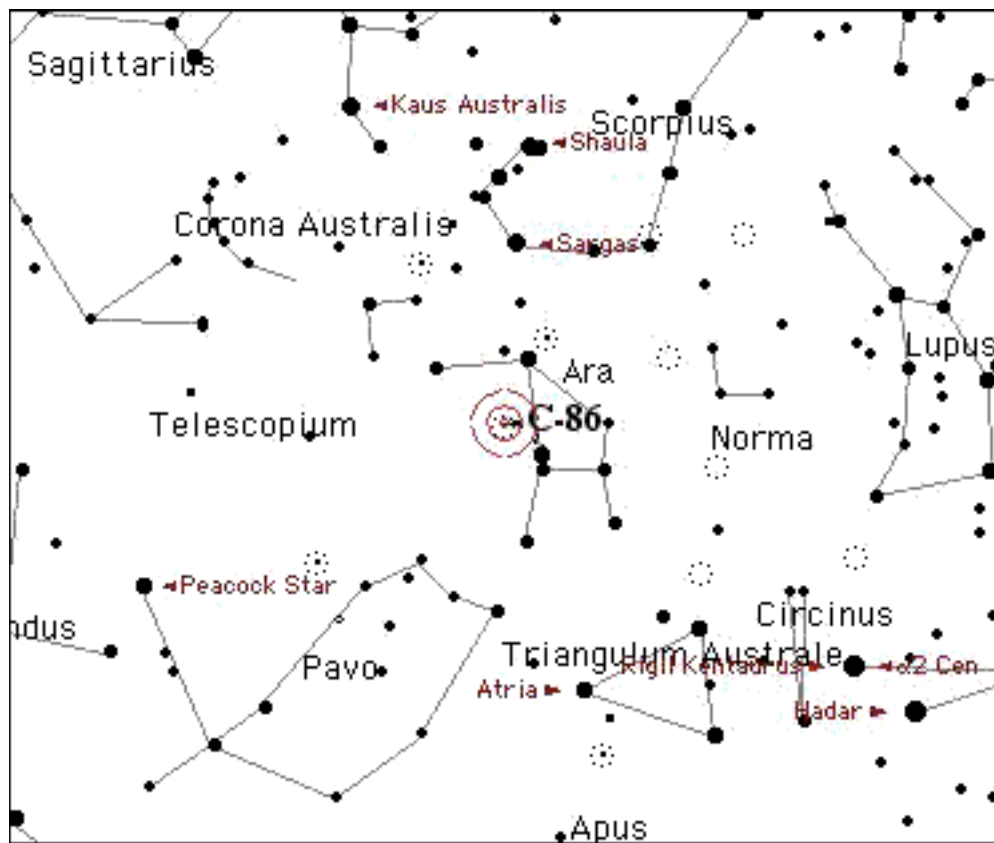
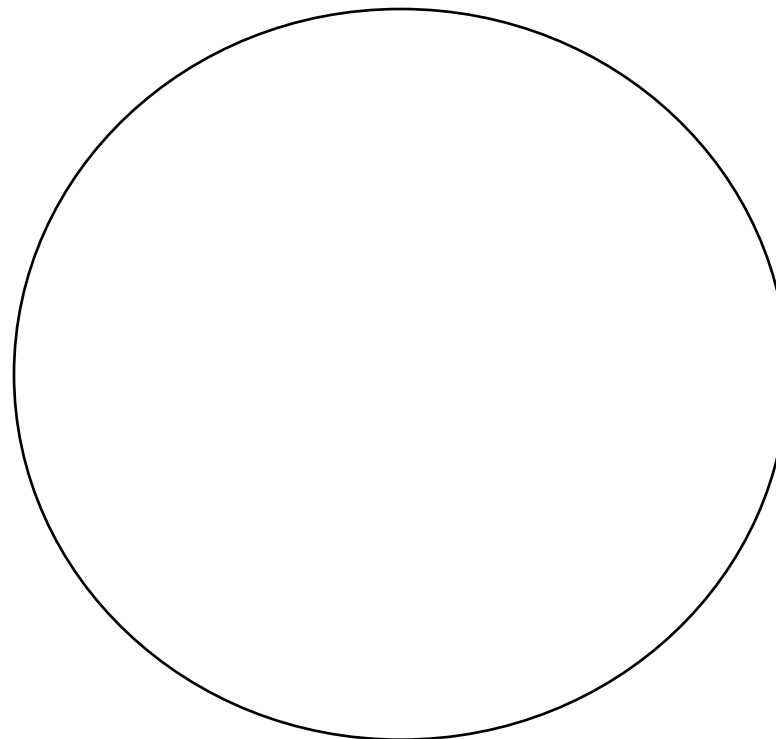
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 087

Name/Designation C-87
NGC # 1261

Seen?
Date

Type Globular Cluster
Constellation Horologium
Magnitude 8.4 Size 7
RA 03 12.3 Dec -55 13

Hemisphere Southern
Season Fall/Early Winter

Sky Atlas 2000 page 18 Other Chart Page(s)

Description

Observing Notes

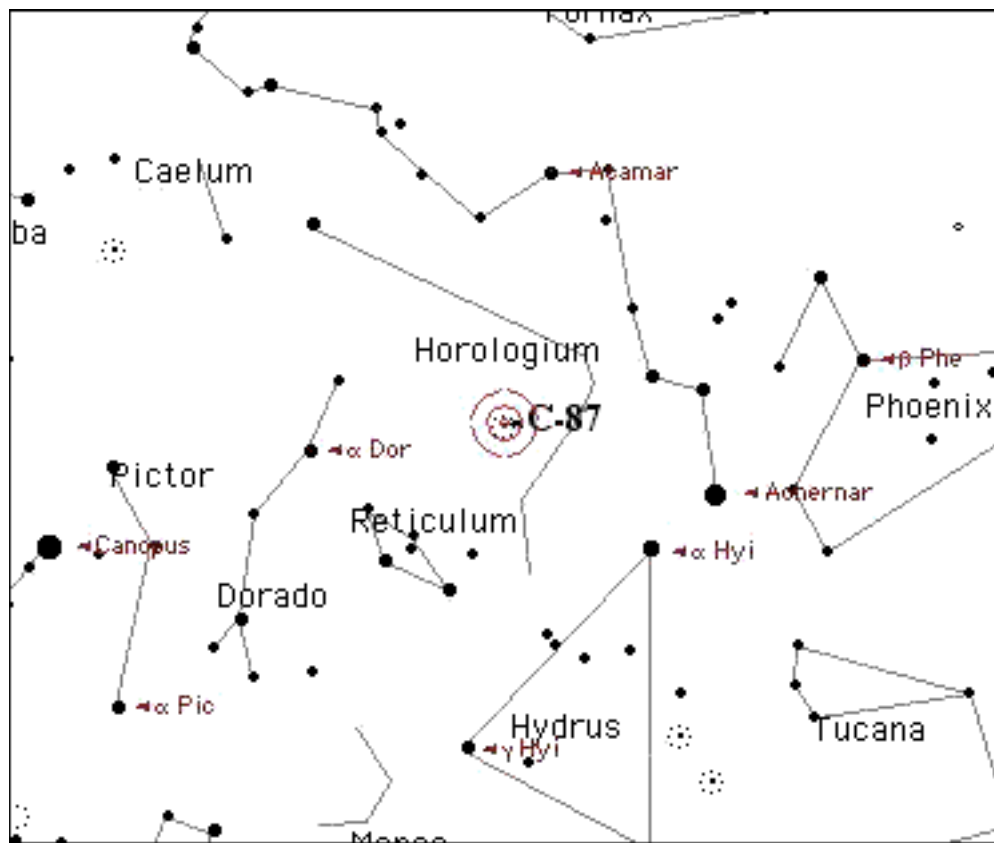
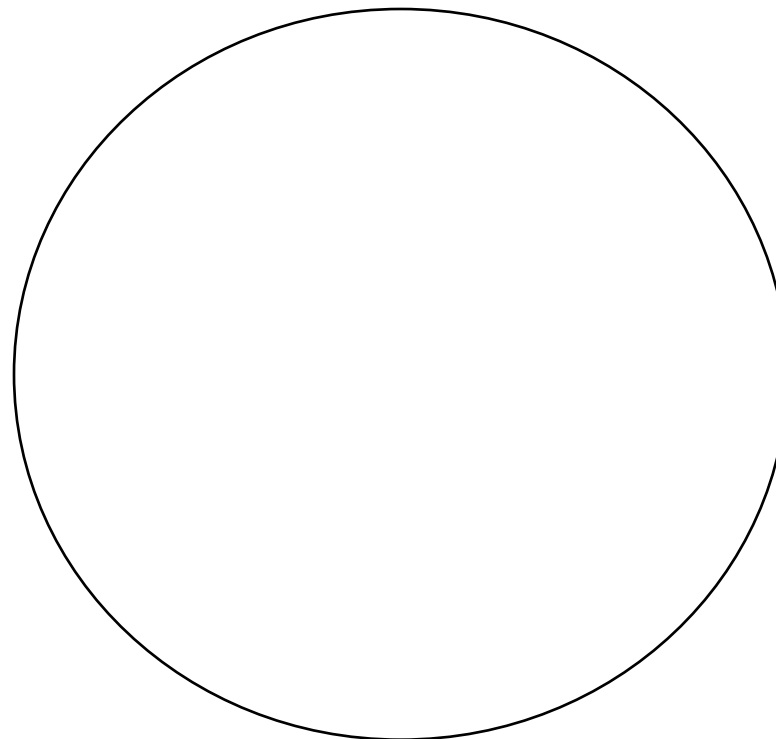
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 088

Name/Designation C-88
NGC # 5823

Seen?
Date

Type Open Cluster
Constellation Circinus
Magnitude 7.9 Size 10
RA 15 05.7 Dec -55 36

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 25 Other Chart Page(s)

Description

Observing Notes

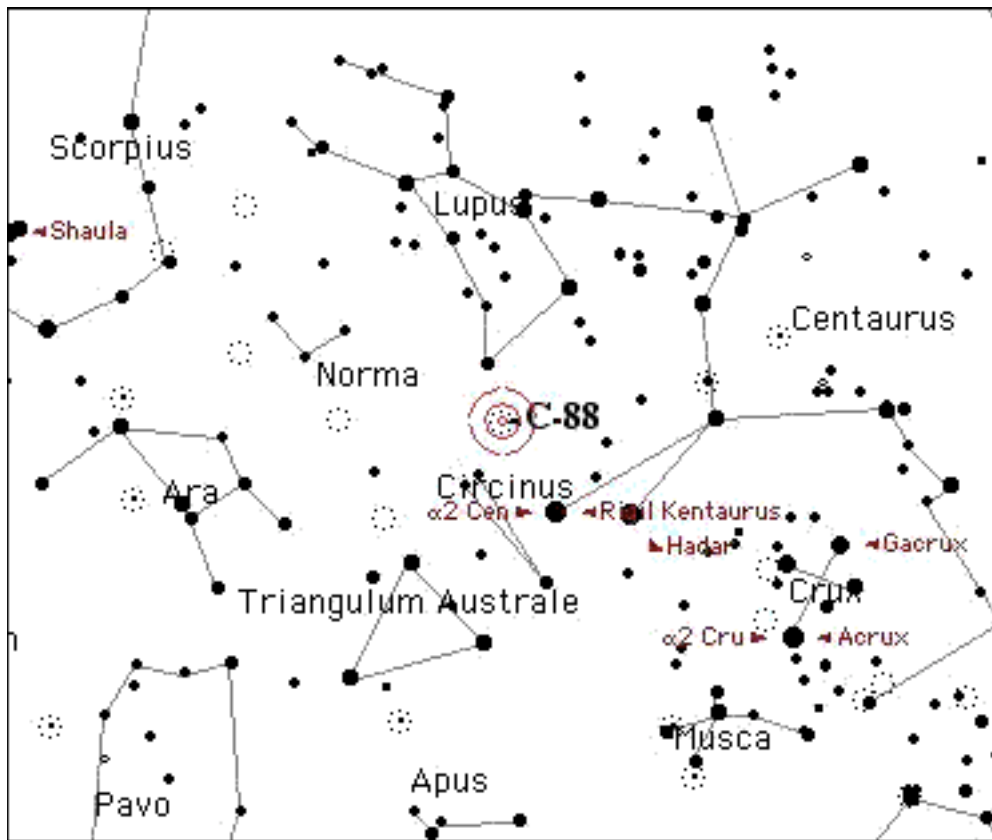
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



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Caldwell# 089

Name/Designation C-89 (S Nor Cluster)
NGC # 6067

Seen?
Date

Type Open Cluster
Constellation Norma
Magnitude 5.4
RA 16 18.9

Size 12
Dec -57 54

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

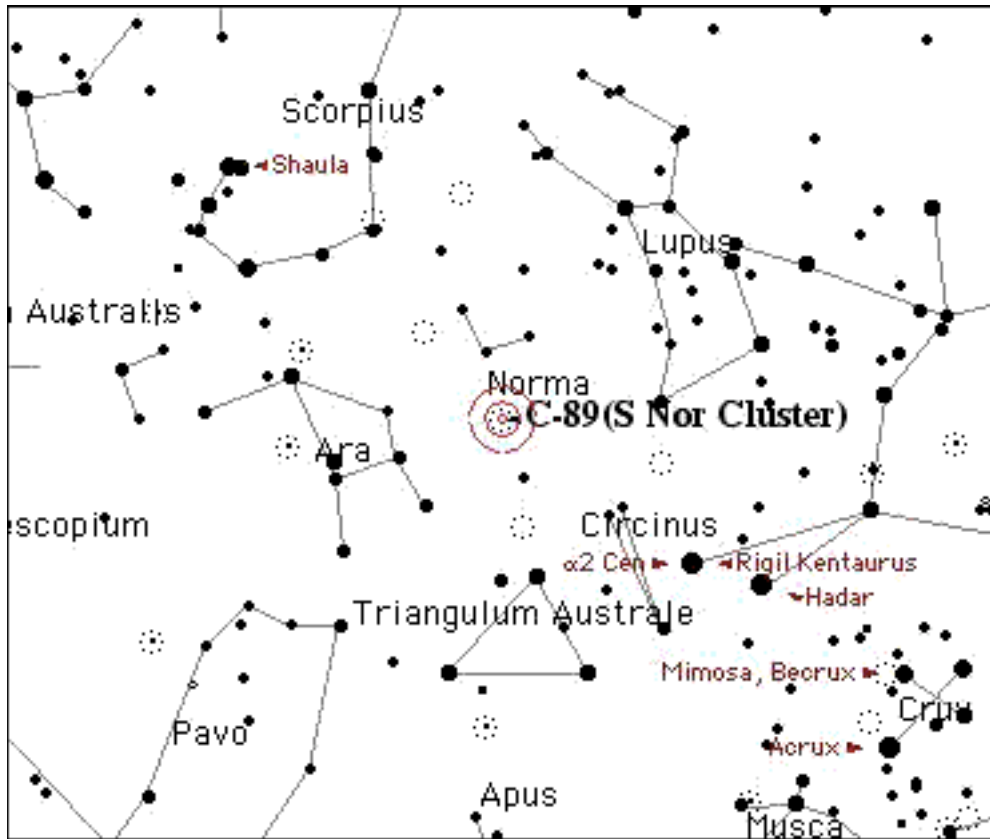
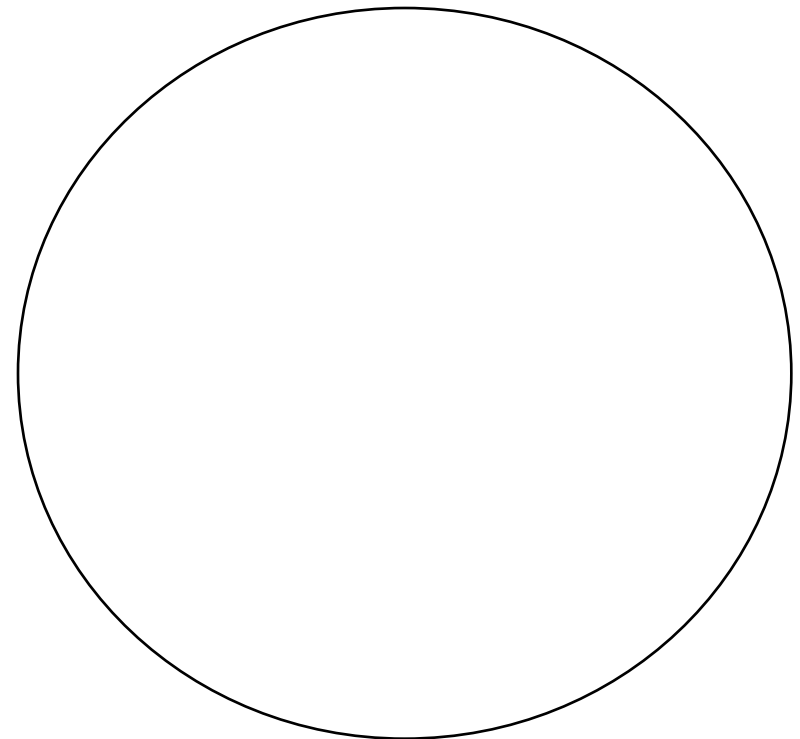
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



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Caldwell# 090

Name/Designation C-90
NGC # 2867

Seen?
Date

Type Planetary Nebula
Constellation Carina
Magnitude Size 0.2
RA 09 21.4 Dec -58 19

Hemisphere Southern
Season Winter

Sky Atlas 2000 page 25 Other Chart Page(s)

Description

Observing Notes

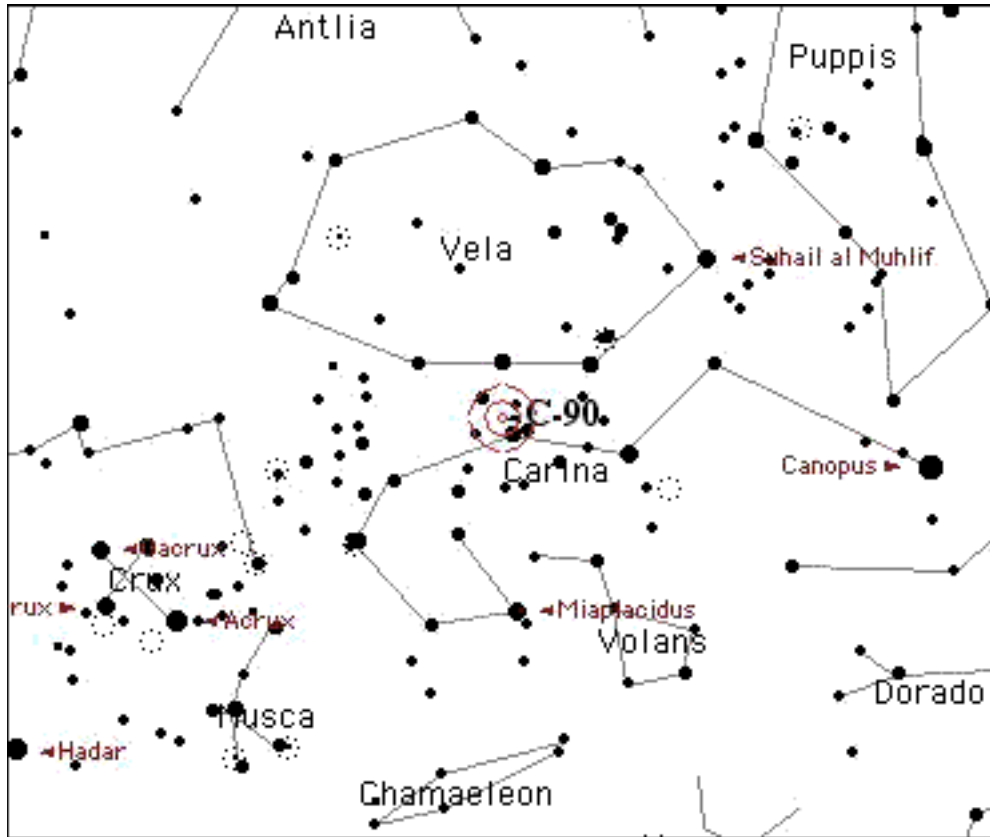
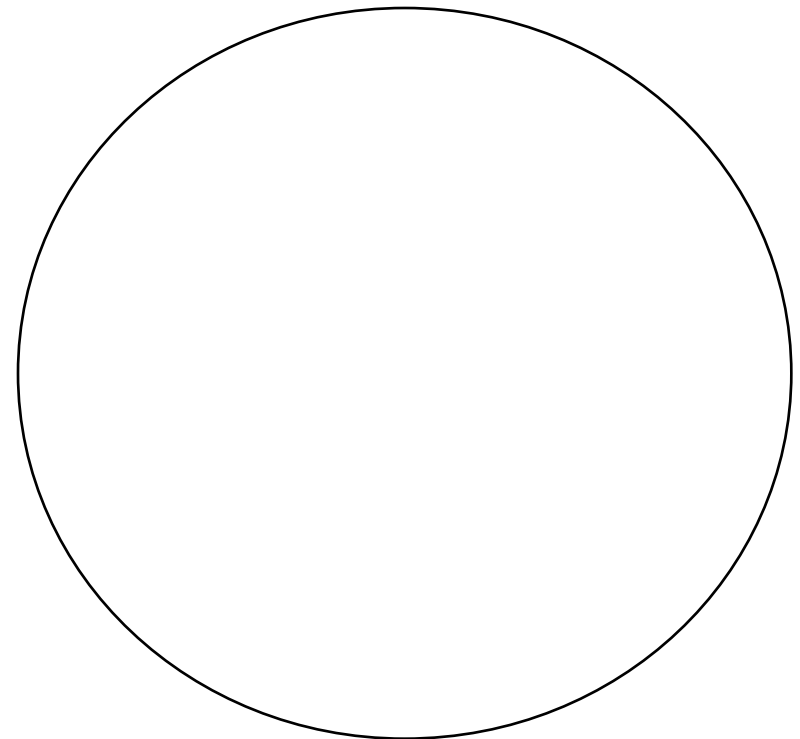
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 091

Name/Designation C-91
NGC # 3532

Seen?
Date

Type Open Cluster *Hemisphere* Southern
Constellation Carina *Season* Winter
Magnitude 3 *Size* 55
RA 11 06.4 *Dec* -58 40

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

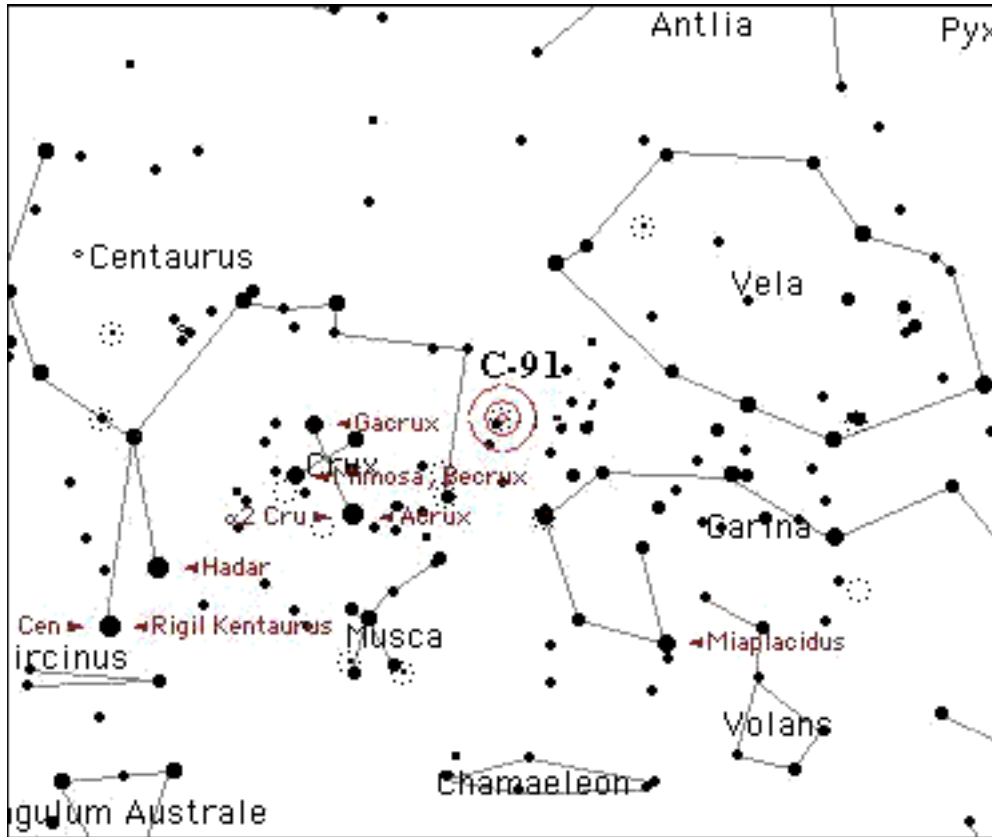
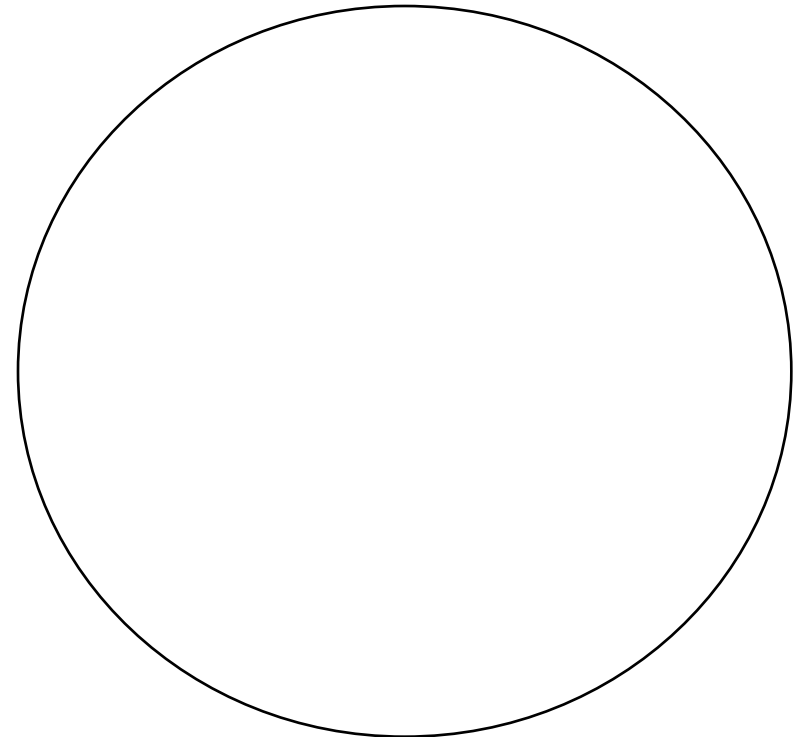
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 092

Name/Designation C-92 (Keyhole Nebula)
NGC # 3372

Seen?
Date

Type Diffuse Nebula *Hemisphere* Southern
Constellation Carina *Season* Winter
Magnitude *Size* 120 X 120
RA 10 43.8 *Dec* -59 52

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

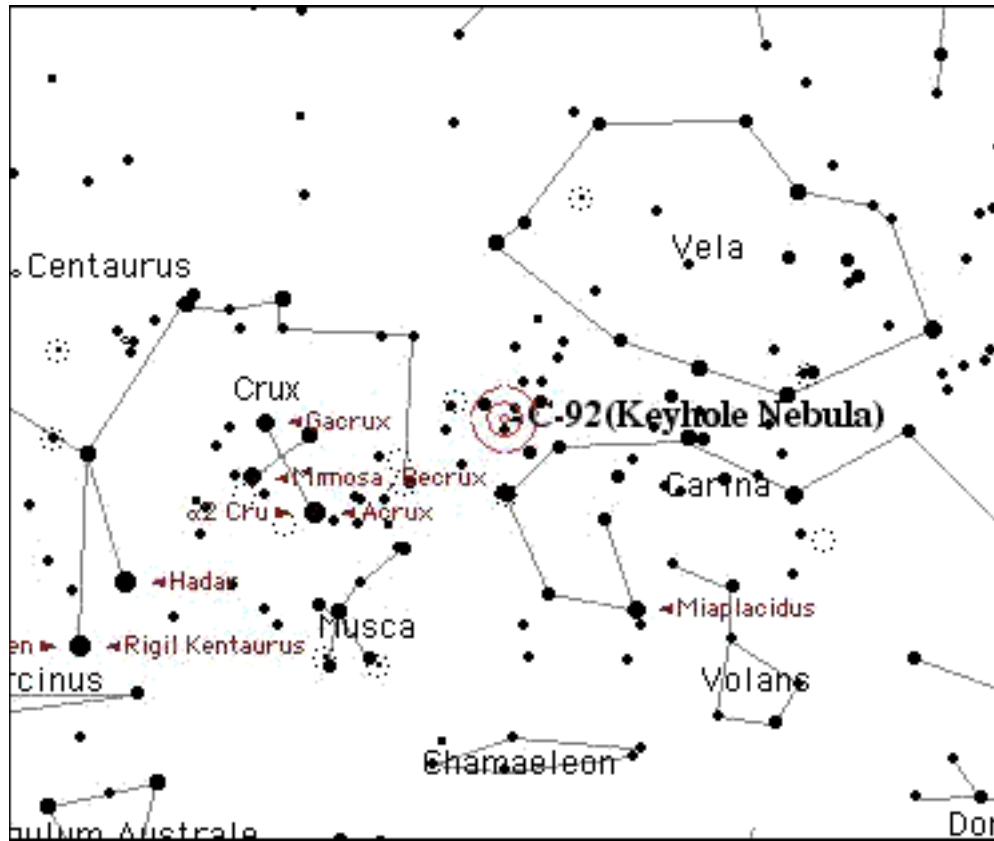
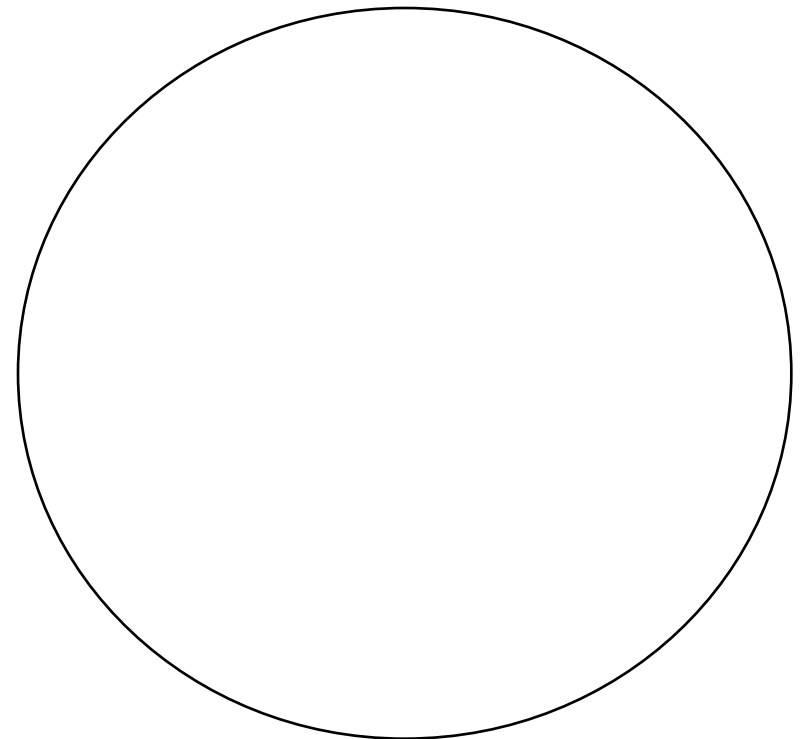
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



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Caldwell# 093

Name/Designation C-93
NGC # 6752

Seen?
Date

Type Globular Cluster
Constellation Pavo
Magnitude 5.4 *Size* 20
RA 19 10.9 *Dec* -59 59

Hemisphere Southern
Season Late Summer

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

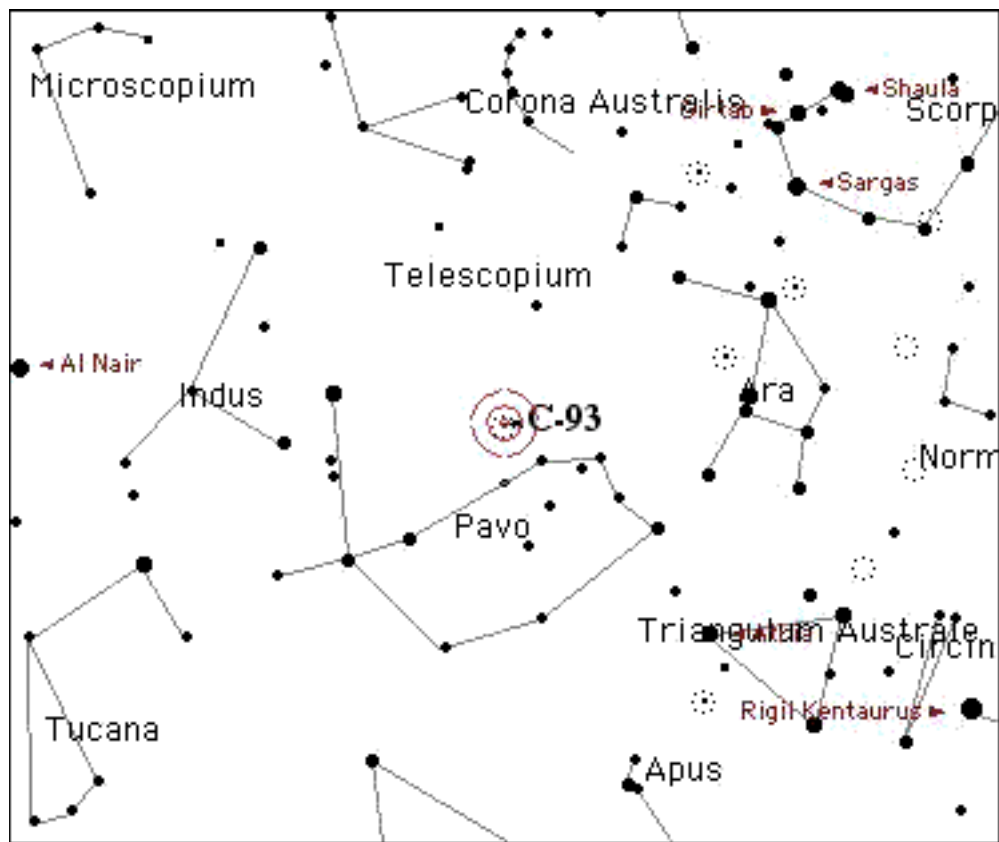
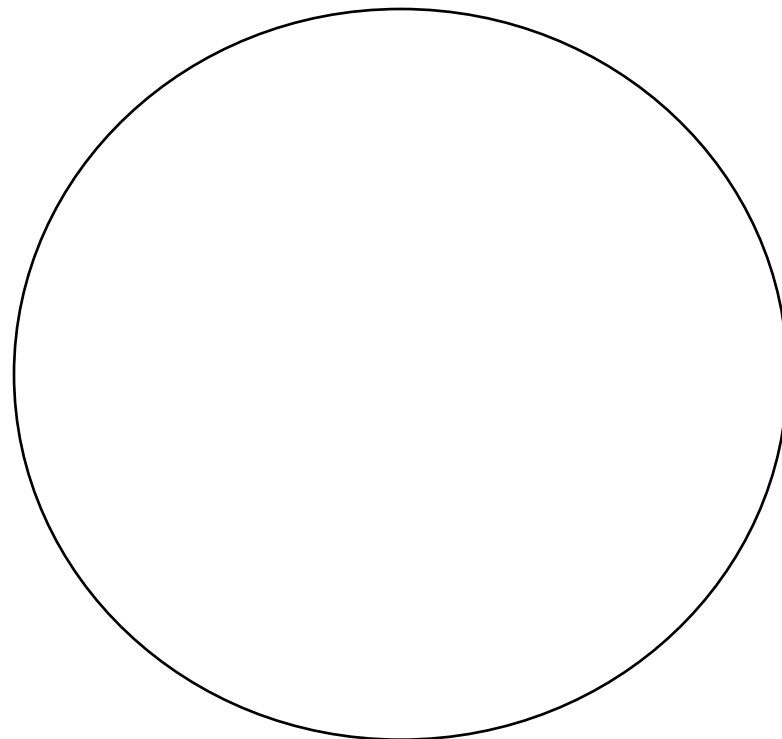
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 094

Name/Designation C-94 (Jewel Box Cl.)
NGC # 4755

Seen?
Date

Type Open Cluster
Constellation Crux
Magnitude 4.2 **Size** 10
RA 12 53.6 **Dec** -60 20

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 25 **Other Chart Page(s)**

Description

Observing Notes

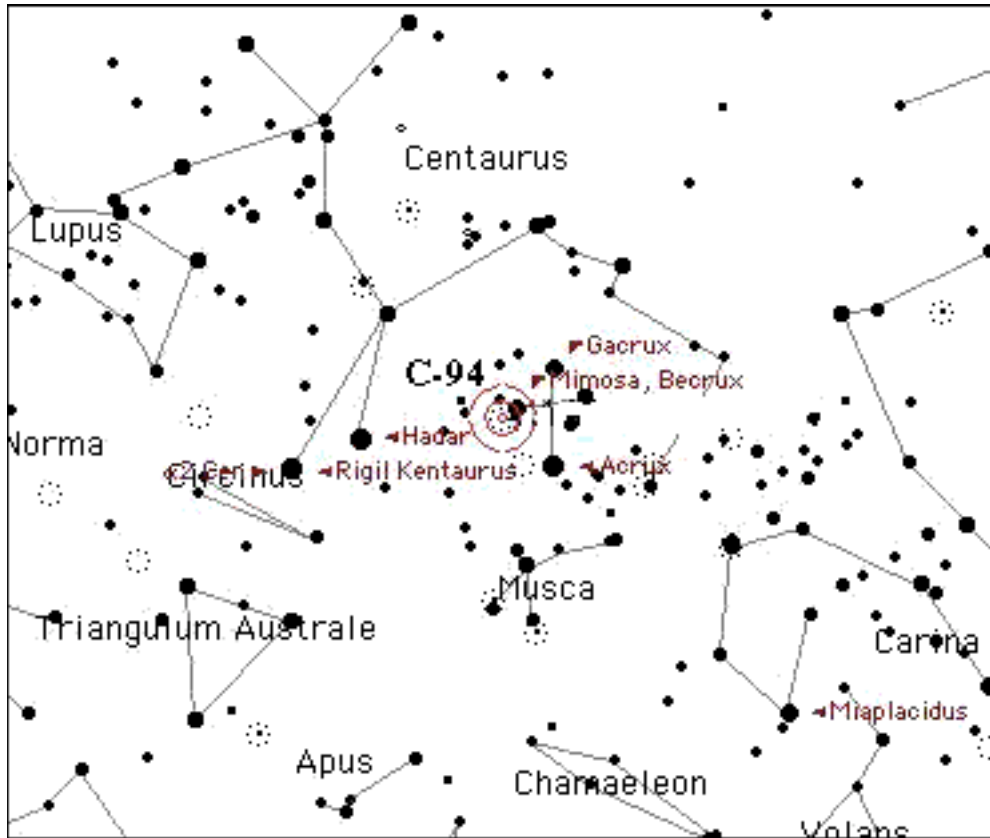
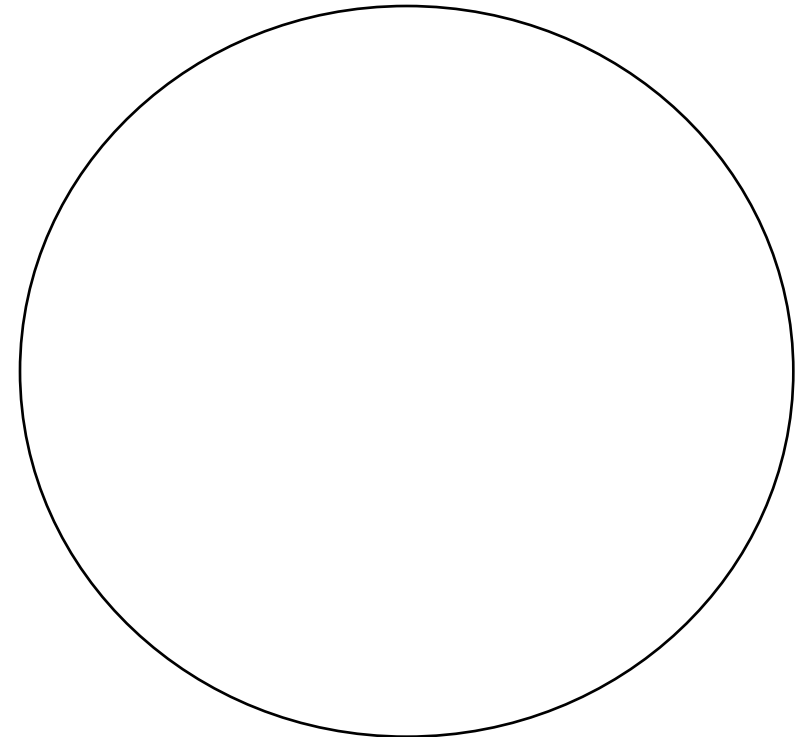
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 095

Name/Designation C-95
NGC # 6025

Seen?
Date

Type Open Cluster
Constellation Triangulum Australe
Magnitude 5.1 *Size* 12
RA 16 03.7 *Dec* -60 30

Hemisphere Either
Season Fall/Early Winter

Sky Atlas 2000 page 26 *Other Chart Page(s)*

Description

Observing Notes

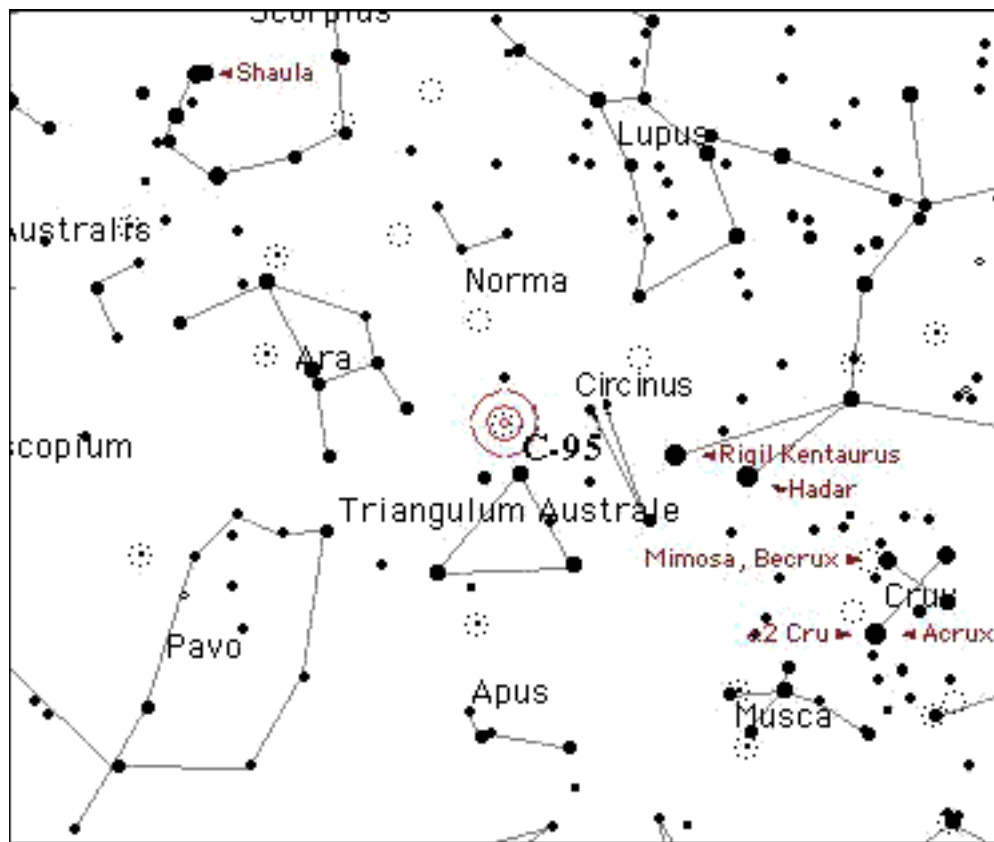
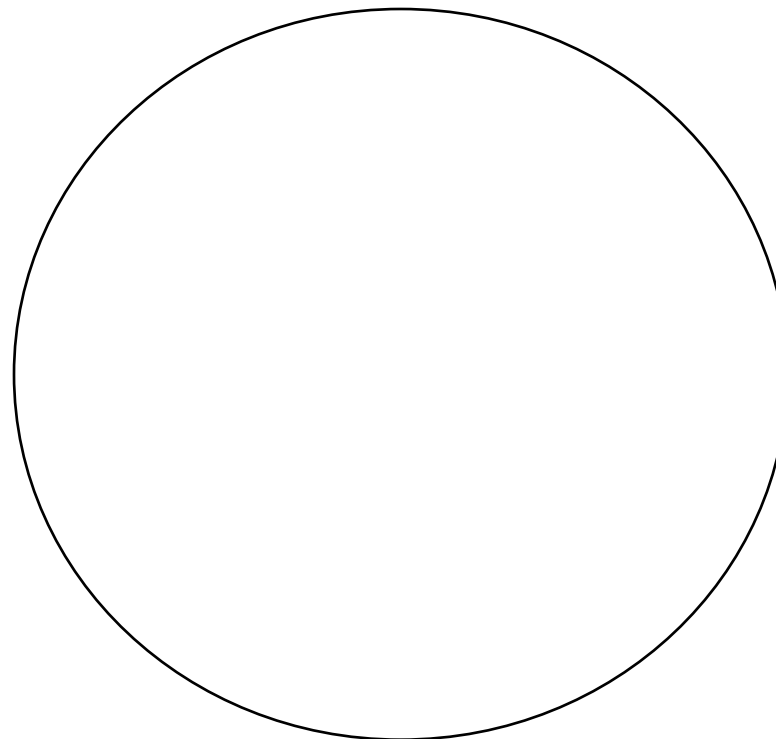
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 096

Name/Designation C-96
NGC # 2516

Seen?
Date

Type Open Cluster
Constellation Carina
Magnitude 3.8 Size 30
RA 07 58.3 Dec -60 52

Hemisphere Southern
Season Winter

Sky Atlas 2000 page 25 Other Chart Page(s)

Description

Observing Notes

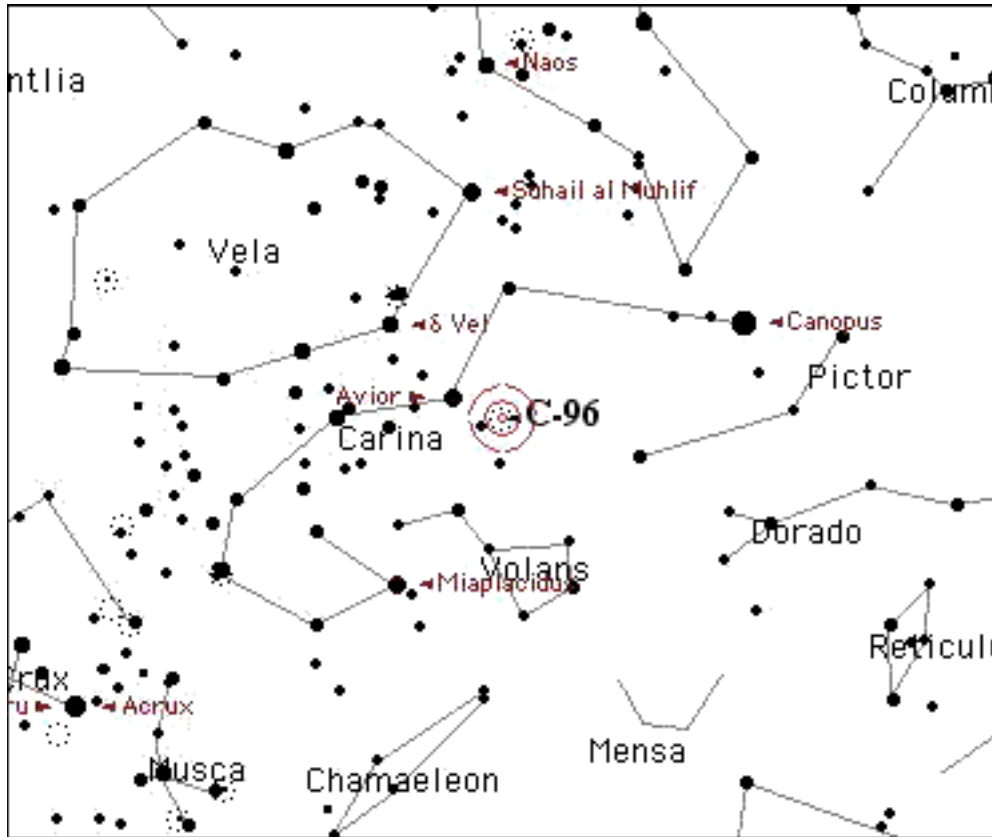
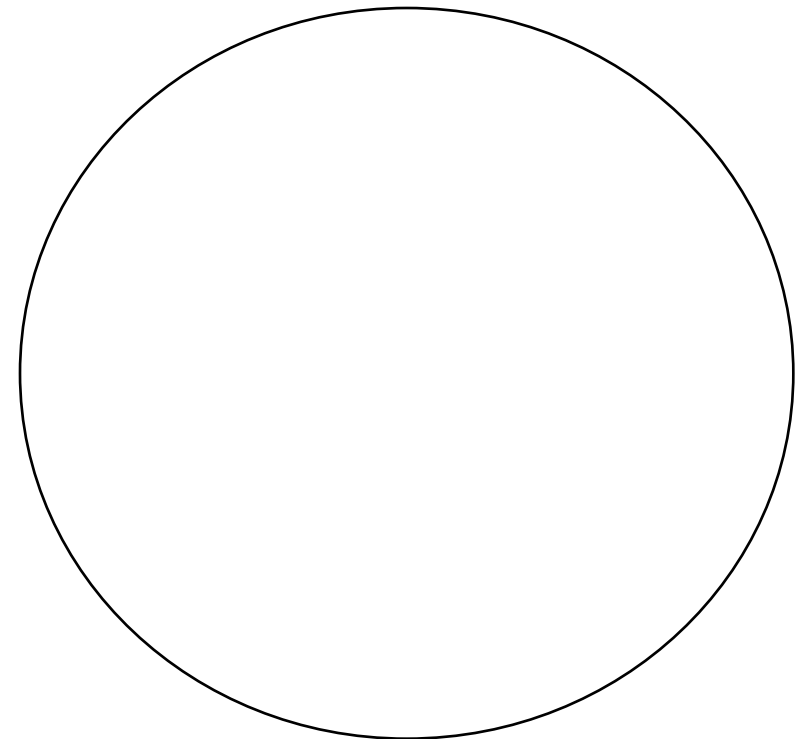
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 097

Name/Designation C-97
NGC # 3766

Seen?
Date

Type Open Cluster **Hemisphere** Southern
Constellation Centaurus **Season** Late Spring
Magnitude 5.3 **Size** 12
RA 11 36.1 **Dec** -61 37

Sky Atlas 2000 page 25 **Other Chart Page(s)**

Description

Observing Notes

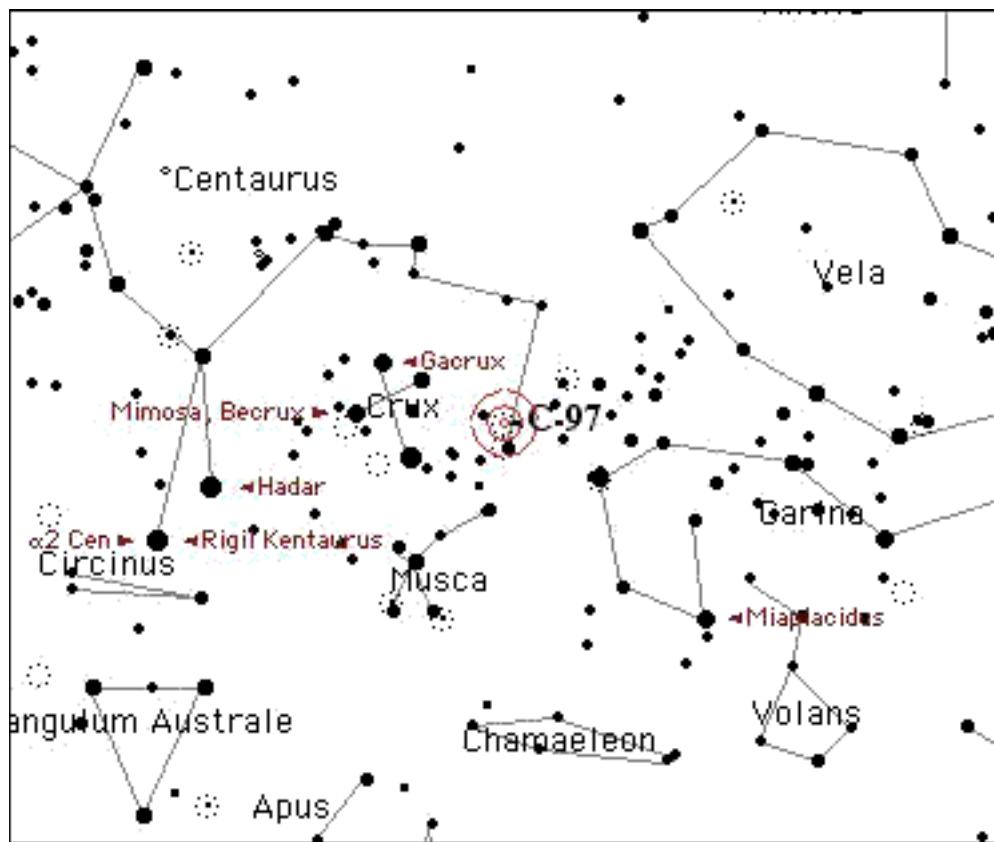
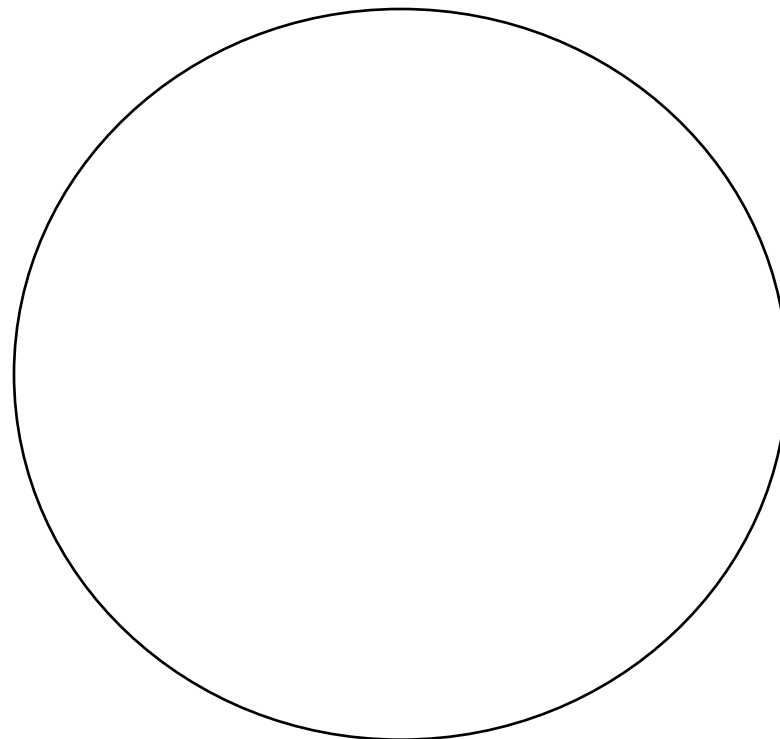
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 098

Name/Designation C-98
NGC # 4609

Seen?
Date

Type Open Cluster *Hemisphere* Southern
Constellation Crux *Season* Late Spring
Magnitude 6.9 *Size* 5
RA 12 42.3 *Dec* -62 58

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

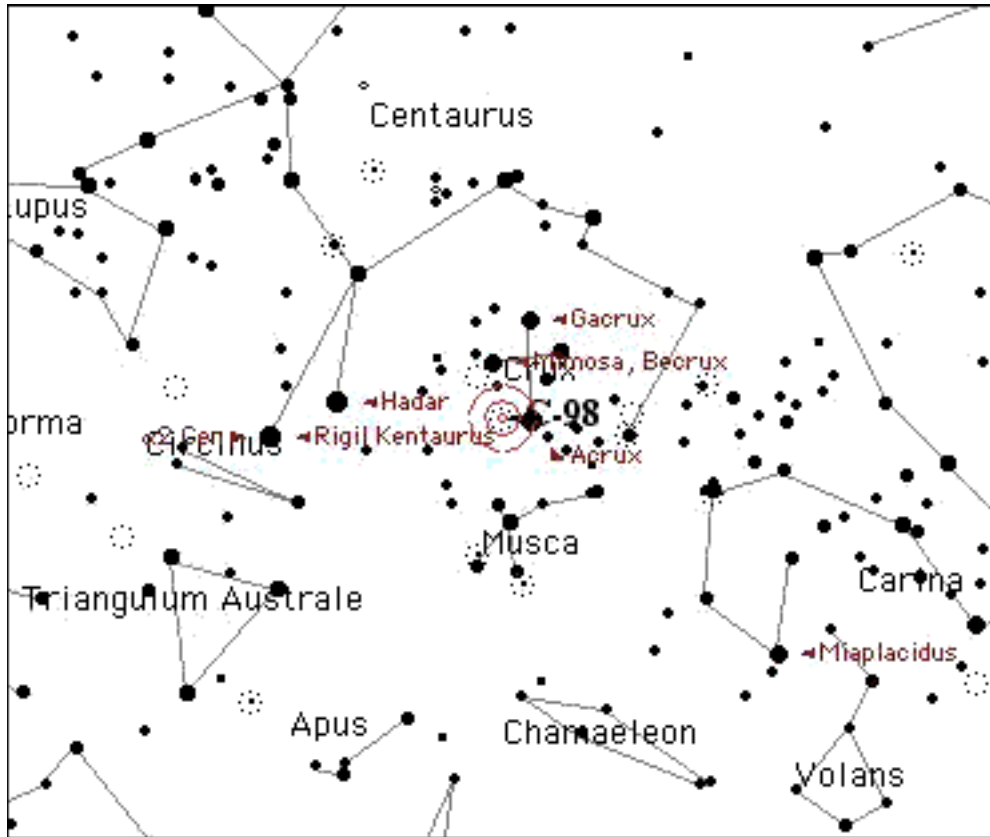
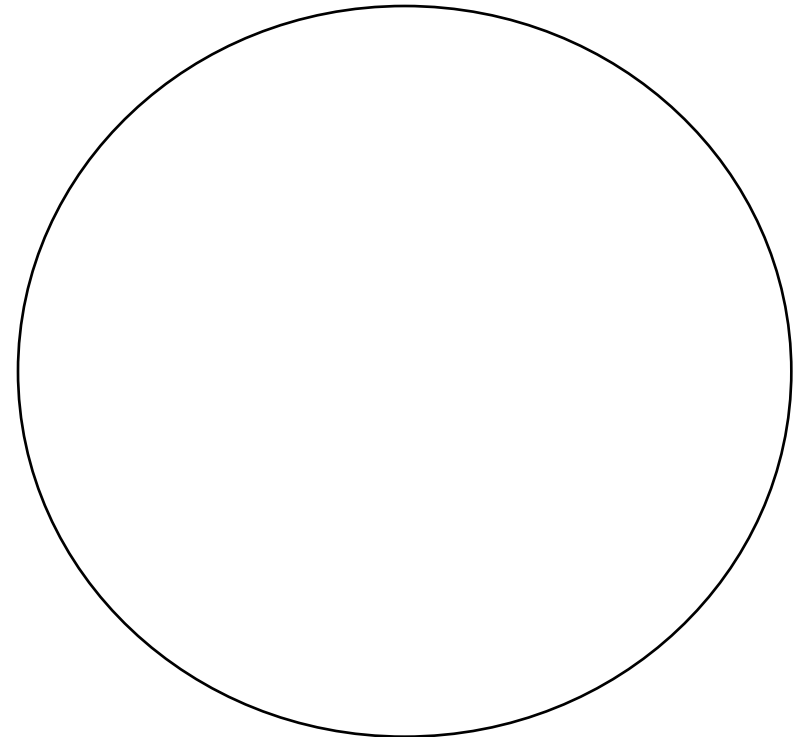
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 099

Name/Designation C-99 (Coalsack)
NGC # N/A

Seen?
Date

Type Dark Nebula
Constellation Crux
Magnitude
RA 12 53.0
Dec -63 00
Hemisphere Southern
Season Late Spring
Size 400 X 300

Observing Notes

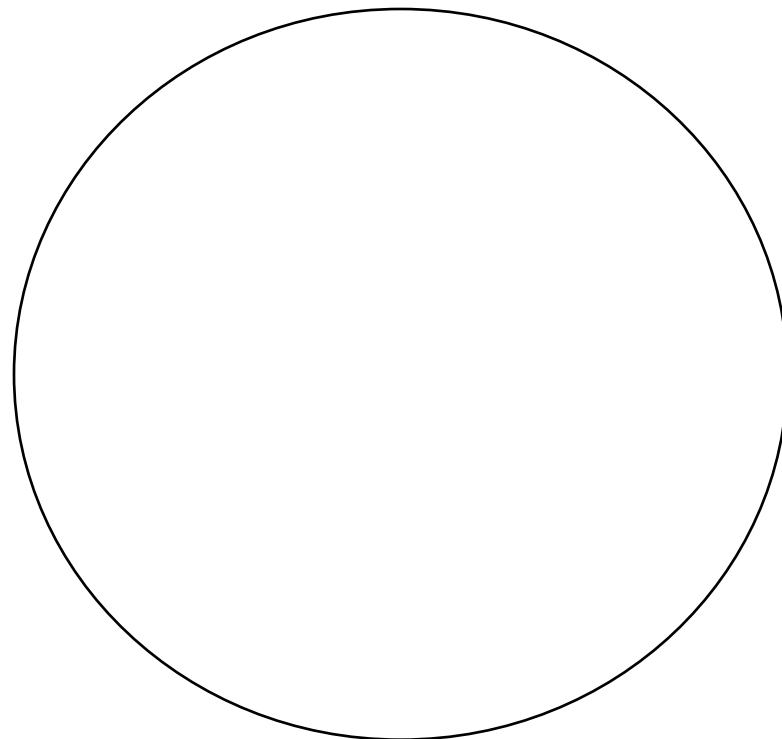
Viewing Time Comments

Observing Site

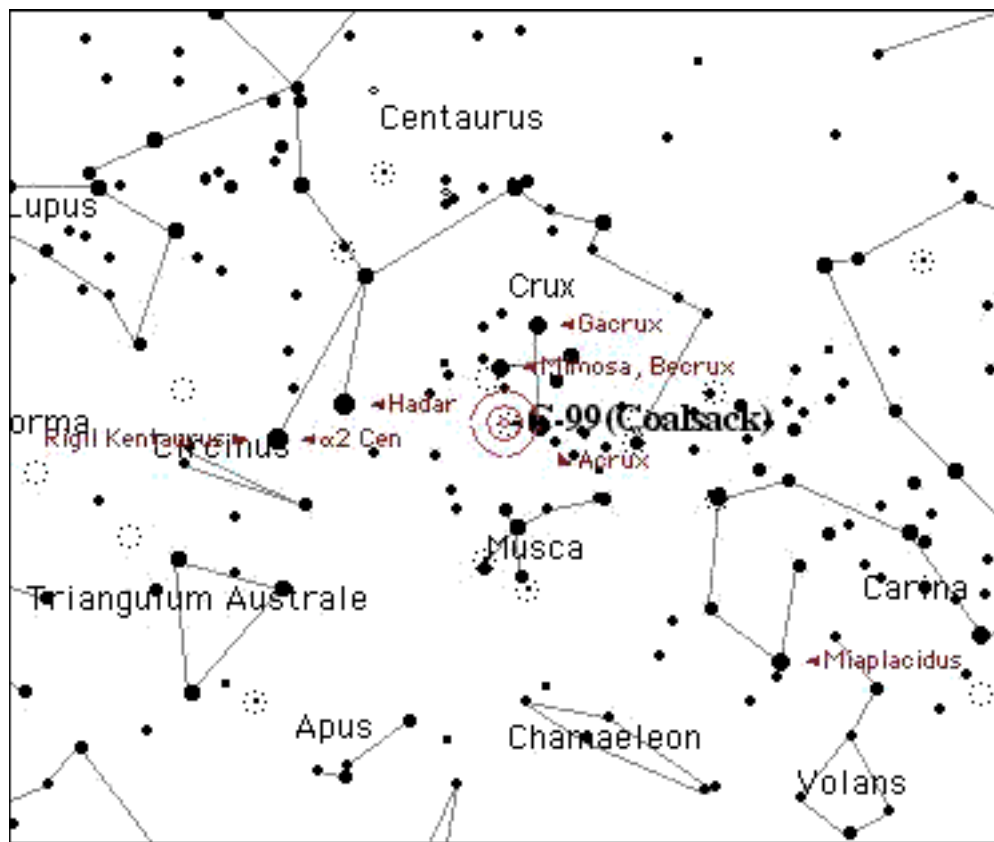
Equipment

Sky : Seeing *Transparency*

Comments



Sky Atlas 2000 page 25 *Other Chart Page(s)*
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 100

Name/Designation
NGC #

C-100 (Lambda Centauri Nebula)
IC 2944

Seen?
Date

Type Open Cluster
Constellation Centaurus
Magnitude 4.5 *Size* 15
RA 11 36.6 *Dec* -63 02

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

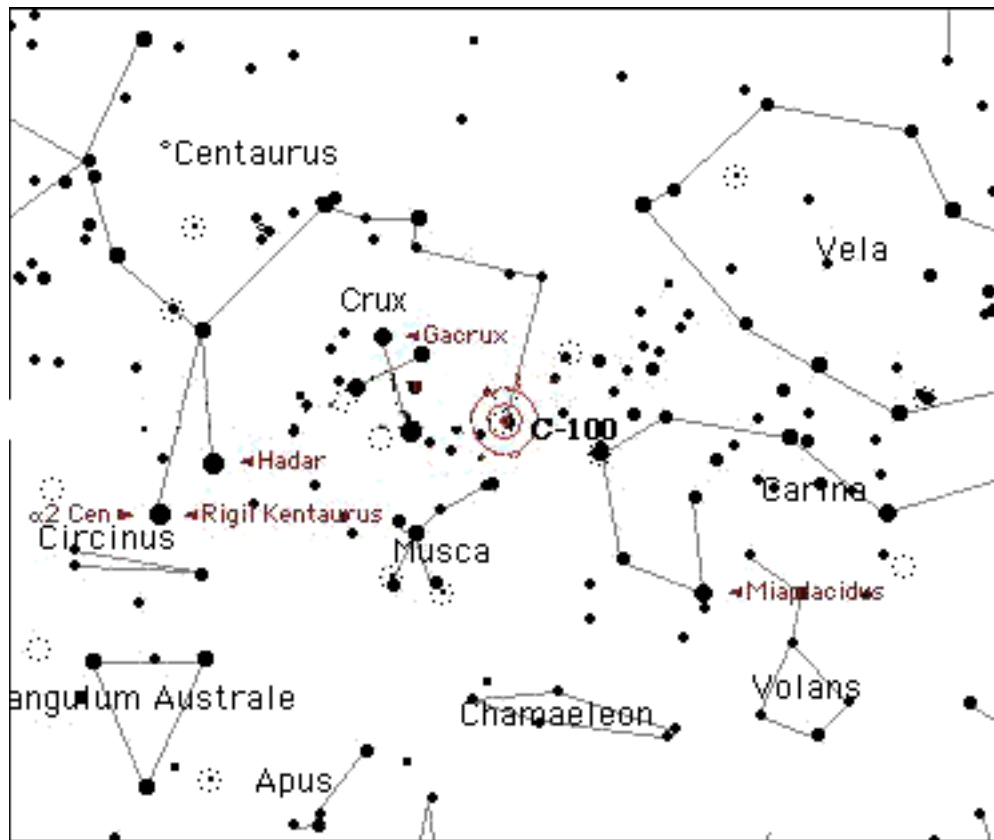
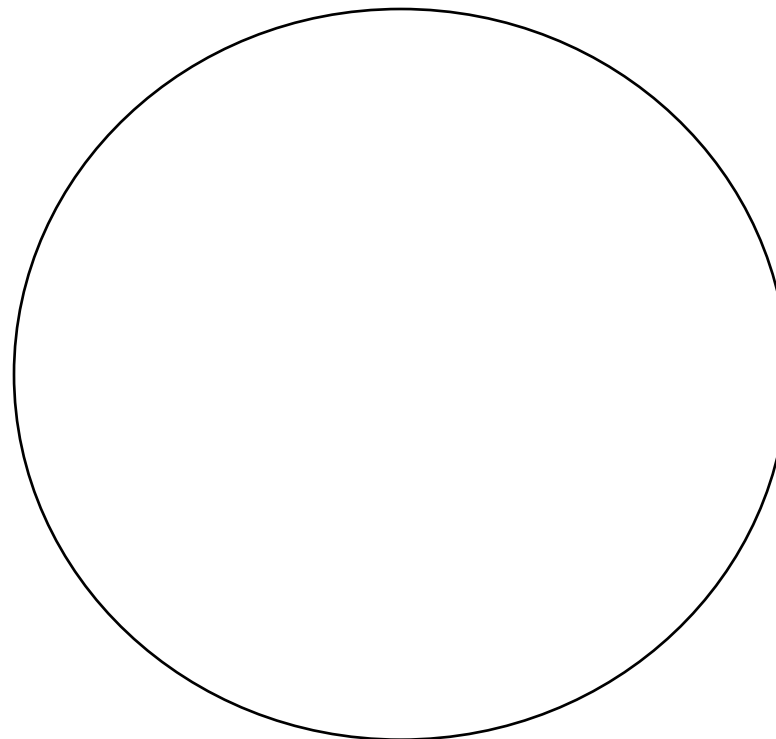
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 101

Name/Designation C-101
NGC # 6744

Seen?
Date

Type Galaxy
Constellation Pavo
Magnitude 8.3 Size 16 X 10
RA 19 09.8 Dec -63 51

Hemisphere Southern
Season Late Summer

Observing Notes

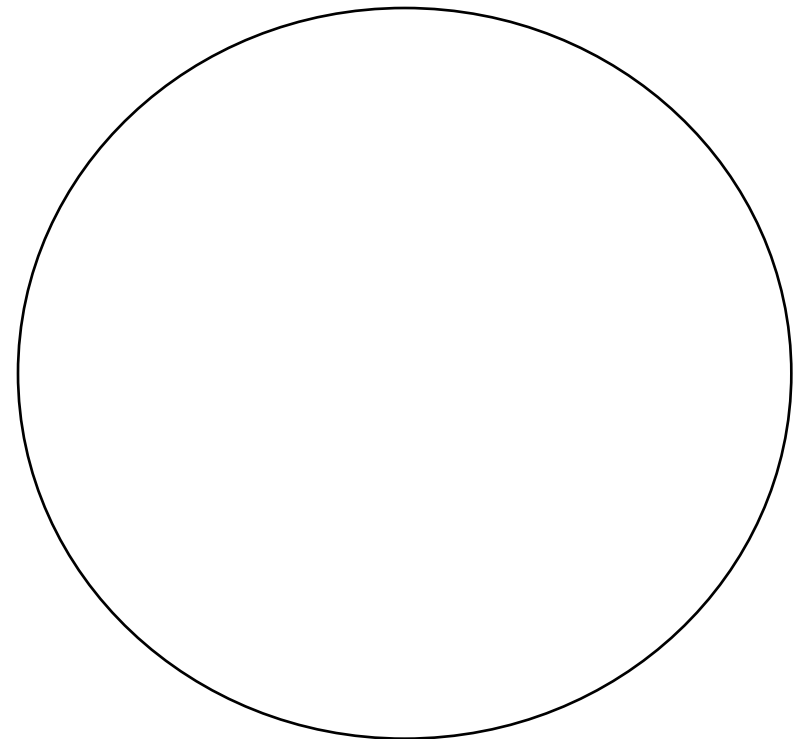
Viewing Time Comments

Observing Site

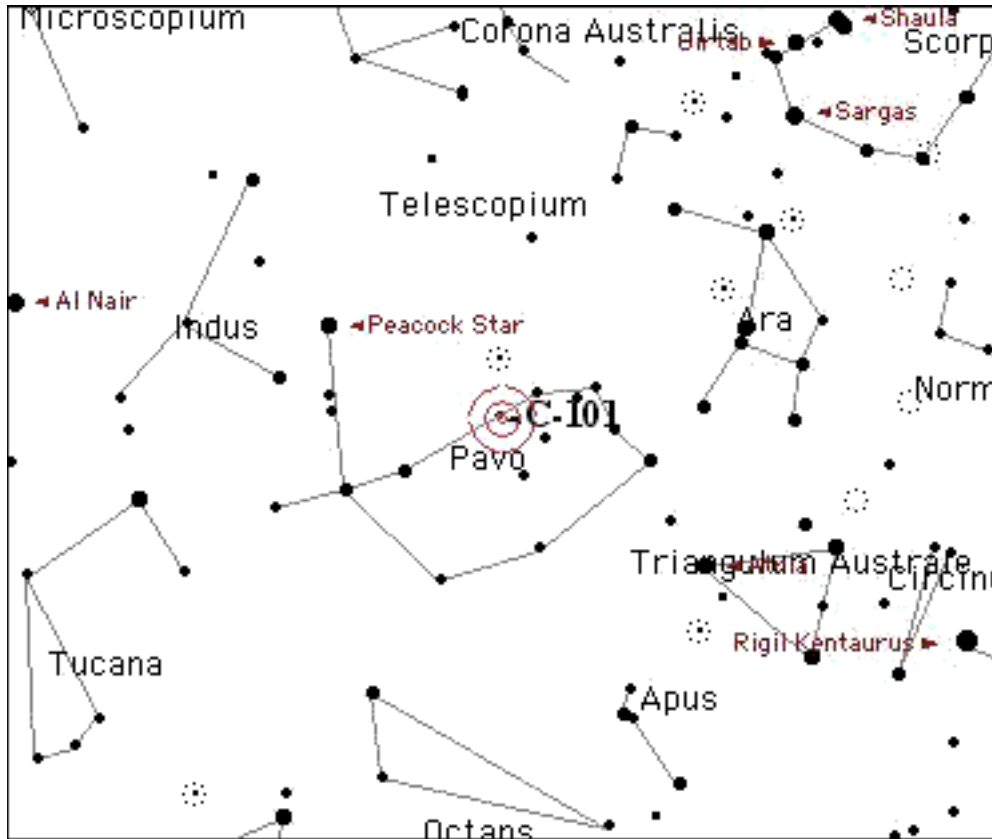
Equipment

Sky : Seeing Transparency

Comments



Sky Atlas 2000 page 25 Other Chart Page(s)
Description



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 102

Name/Designation C-102 (Southern Pleiades)
NGC # IC 2602

Seen?
Date

Type Open Cluster
Constellation Carina
Magnitude 1.9 **Size** 50
RA 10 43.2 **Dec** -64 24

Hemisphere Southern
Season Winter

Sky Atlas 2000 page 25 **Other Chart Page(s)**

Description

Observing Notes

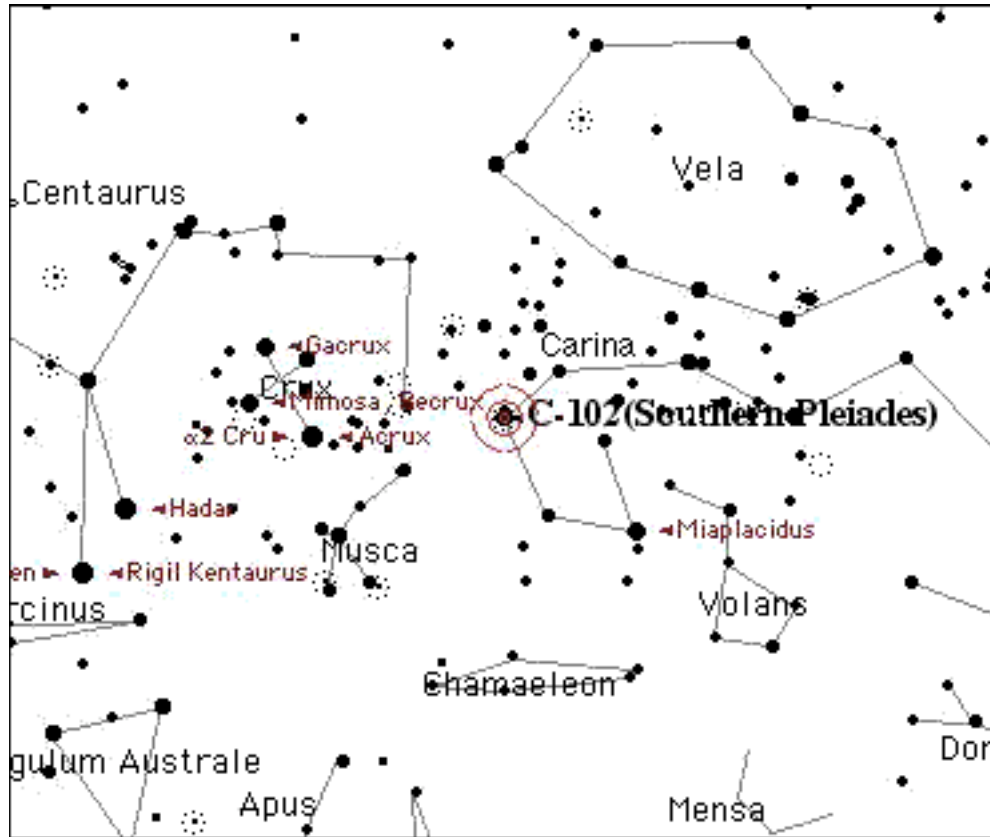
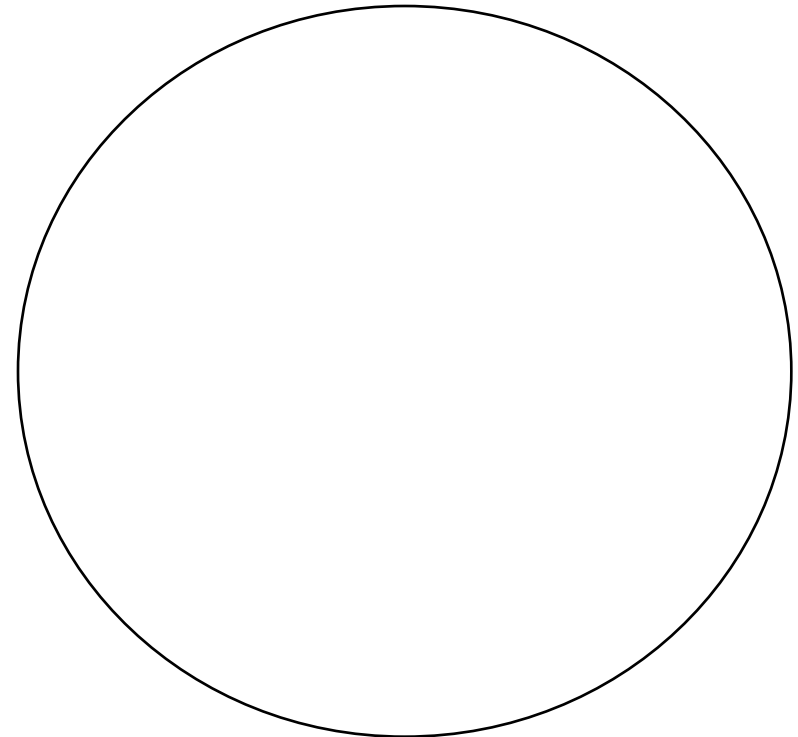
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 103

Name/Designation C-103 (Tarantula Neb.)
NGC # 2070

Seen?
Date

Type Diffuse Nebula
Constellation Dorado
Magnitude
RA 05 38.7

Size 40 X 25
Dec -69 06

Hemisphere Southern
Season Winter

Sky Atlas 2000 page 24 *Other Chart Page(s)*

Description

Observing Notes

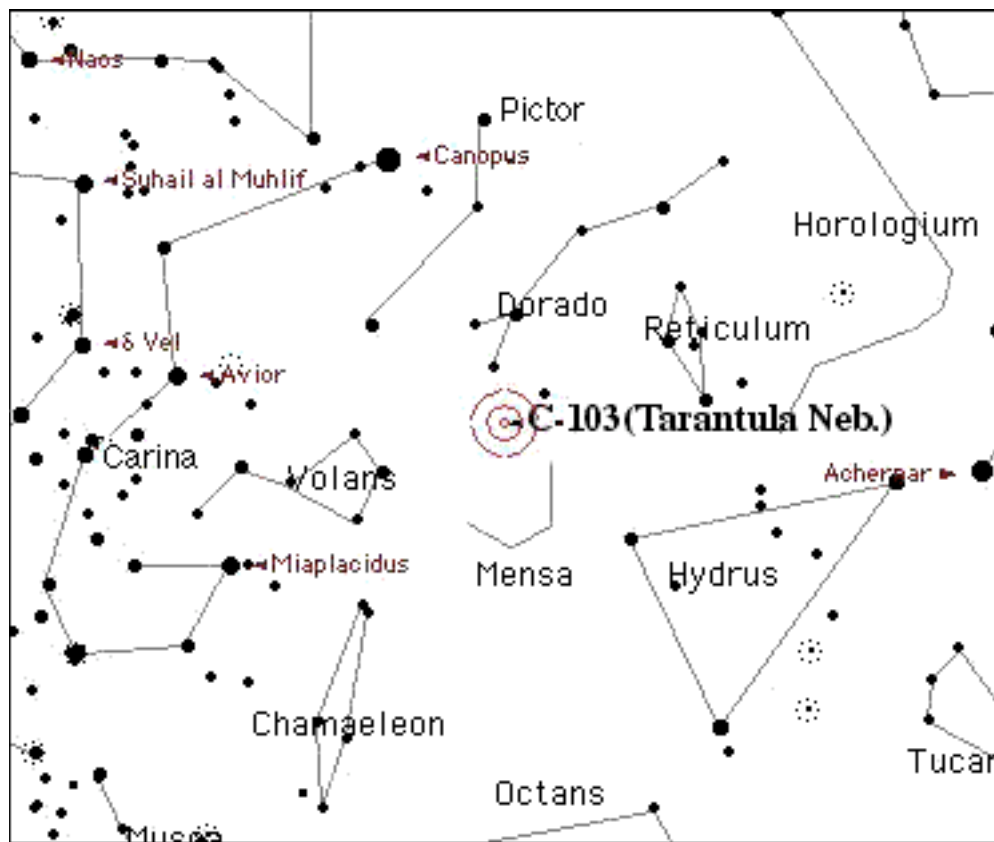
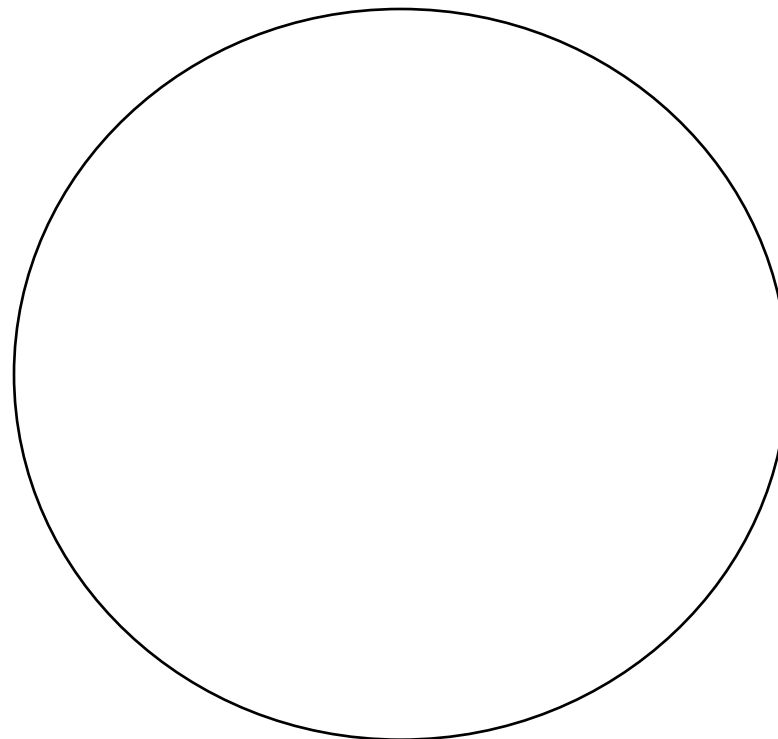
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 104

Name/Designation C-104
NGC # 362

Seen?
Date

Type Globular Cluster
Constellation Tucana
Magnitude 6.6
RA 01 03.2

Hemisphere Southern
Season Fall/Early Winter

Size 13
Dec -70 51

Sky Atlas 2000 page 24 *Other Chart Page(s)*

Description

Observing Notes

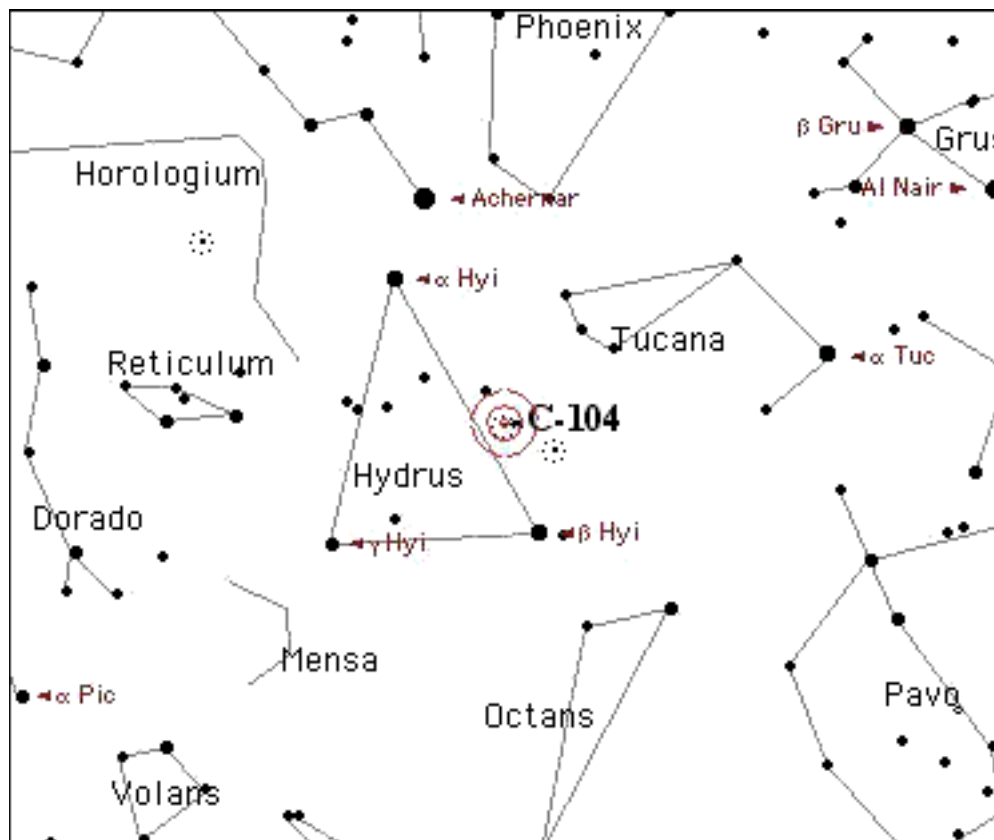
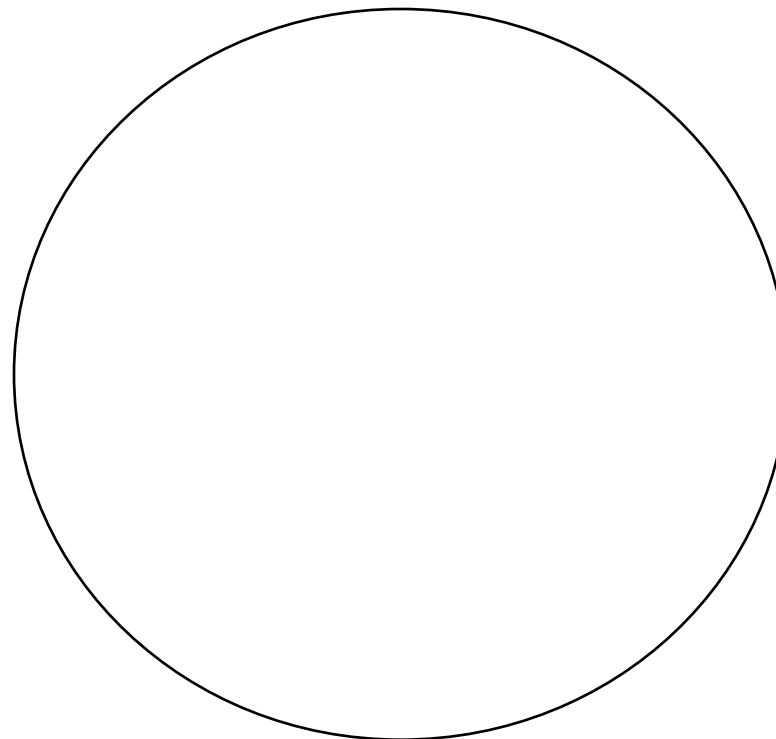
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 105

Name/Designation C-105
NGC # 4833

Seen?
Date

Type Globular Cluster *Hemisphere* Southern
Constellation Musca *Season* Late Spring
Magnitude 7.3 *Size* 14
RA 12 59.6 *Dec* -70 53

Sky Atlas 2000 page 25 *Other Chart Page(s)*

Description

Observing Notes

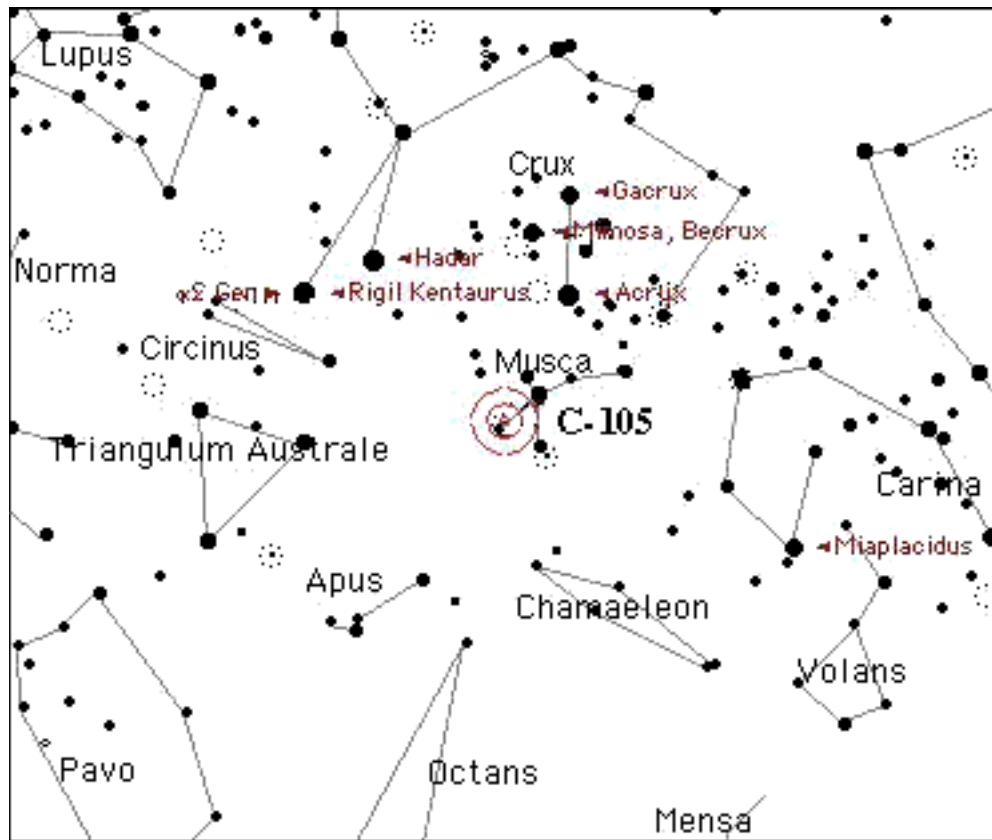
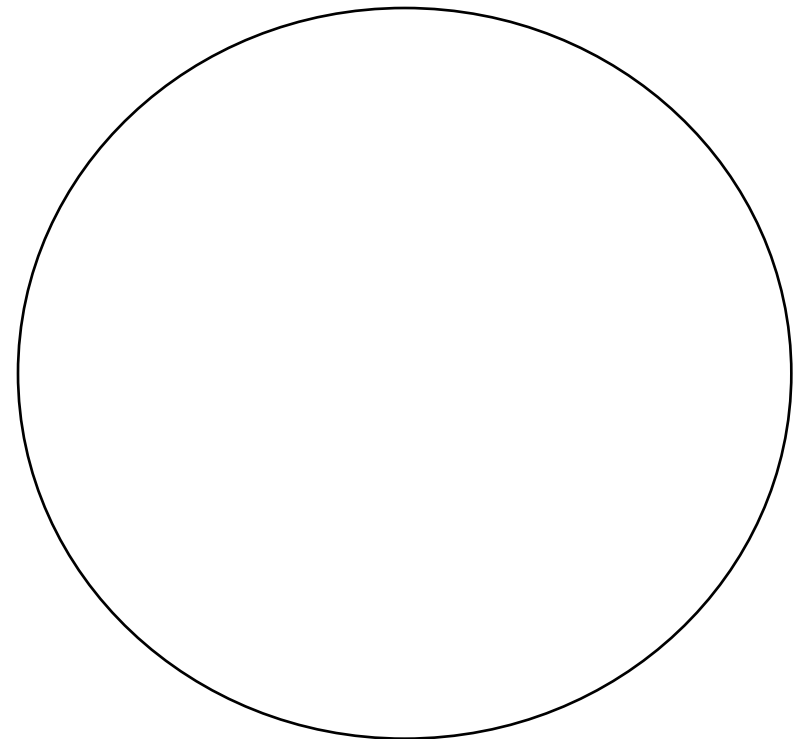
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing *Transparency*

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 106

Name/Designation C-106 (47 Tucanae)
NGC # 104

Seen?
Date

Type Globular Cluster
Constellation Tucana

Hemisphere Southern
Season Fall/Early Winter

Magnitude 4 **Size** 31

RA 00 24.1 **Dec** -72 05

Sky Atlas 2000 page 24 **Other Chart Page(s)**

Description

Observing Notes

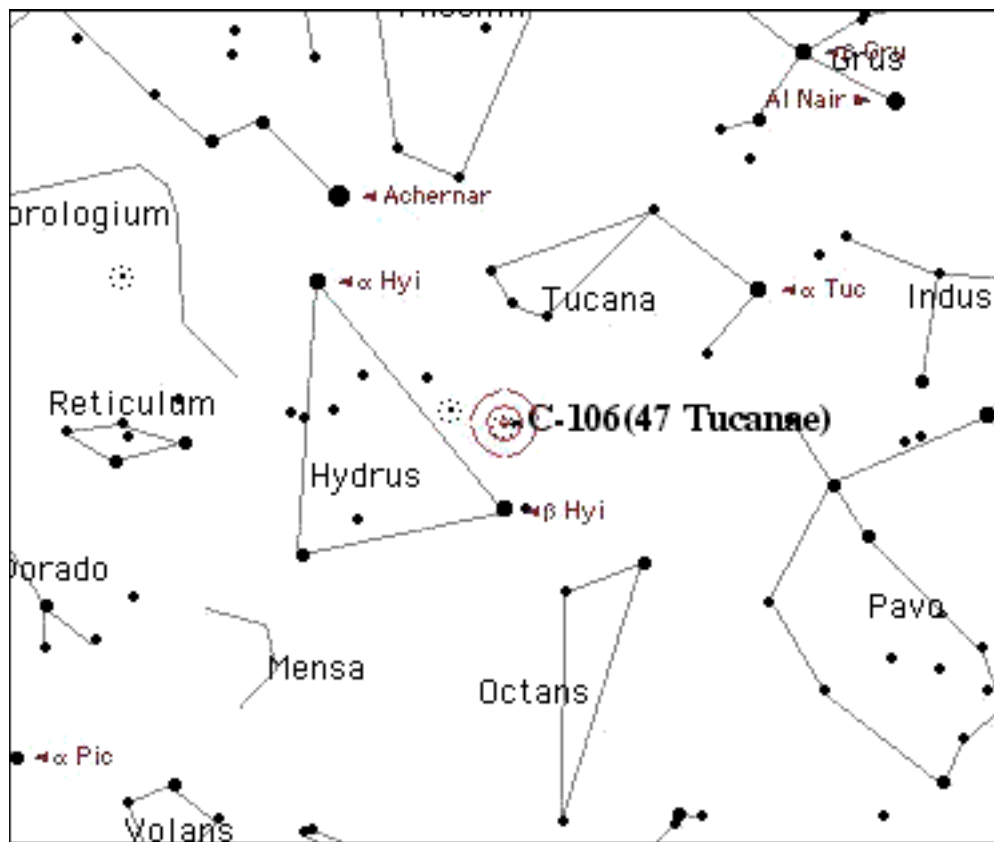
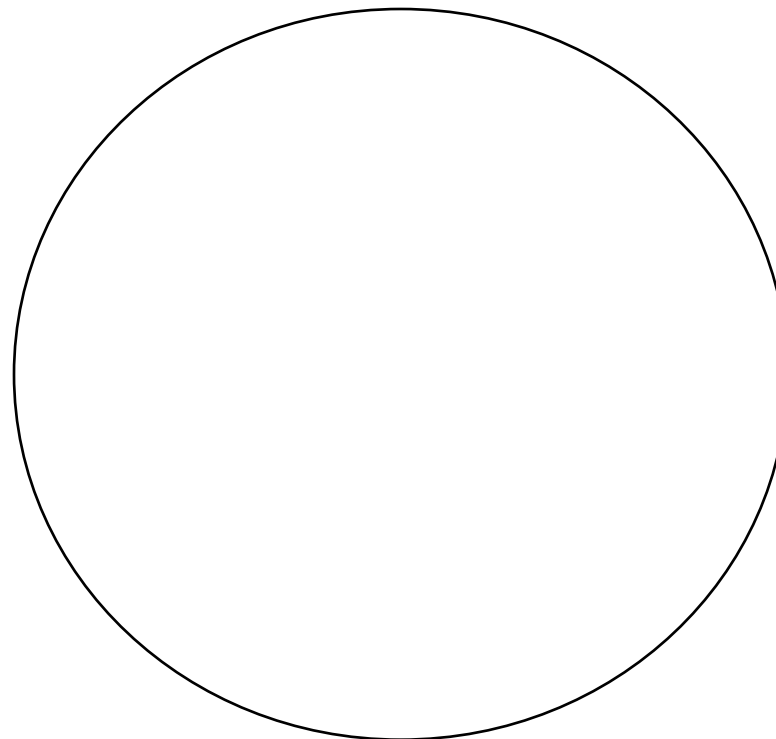
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 107

Name/Designation C-107
NGC # 6101

Seen?
Date

Type Globular Cluster **Hemisphere** Southern
Constellation Apus **Season** Late Spring
Magnitude 9.3 **Size** 11
RA 16 25.8 **Dec** -72 12

Sky Atlas 2000 page 26 **Other Chart Page(s)**

Description

Observing Notes

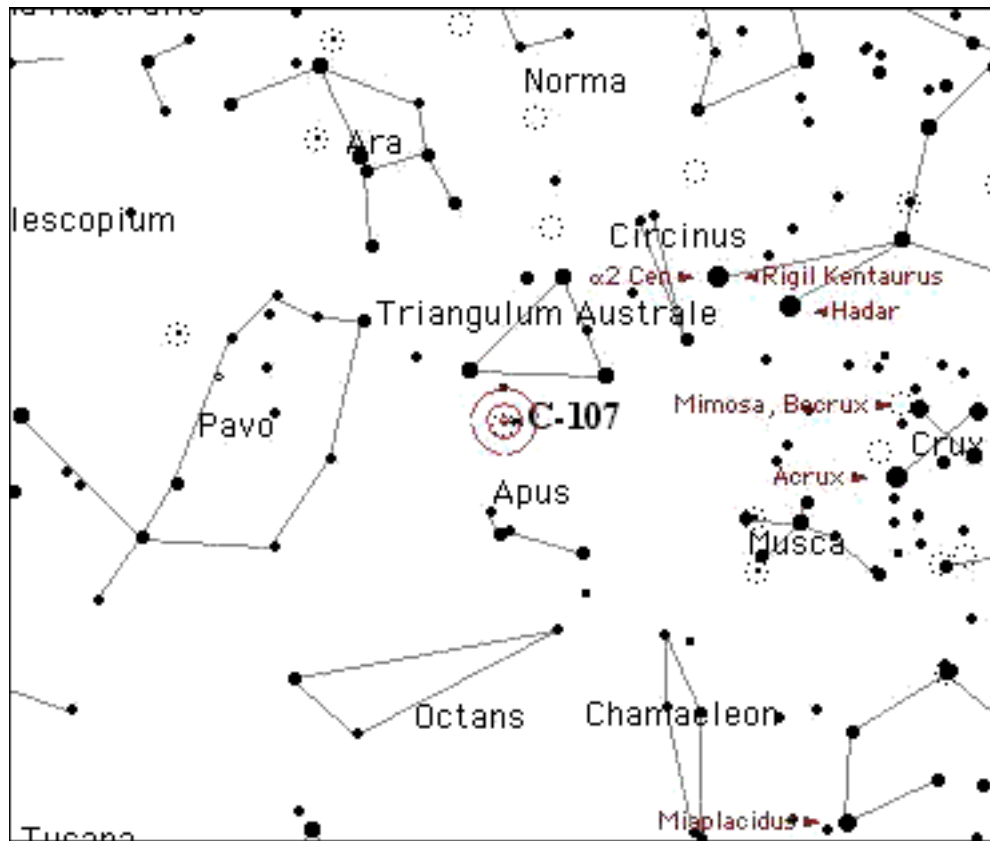
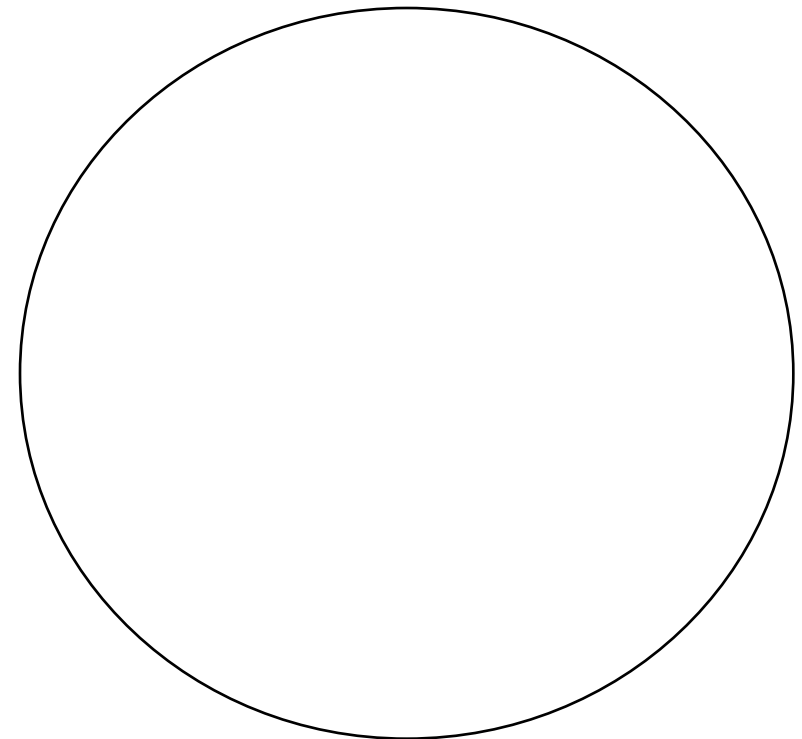
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

Caldwell# 108

Name/Designation C-108
NGC # 4372

Seen?
Date

Type Globular Cluster
Constellation Musca
Magnitude 7.8 Size 19
RA 12 25.8 Dec -72 40

Hemisphere Southern
Season Late Spring

Sky Atlas 2000 page 25 Other Chart Page(s)

Description

Observing Notes

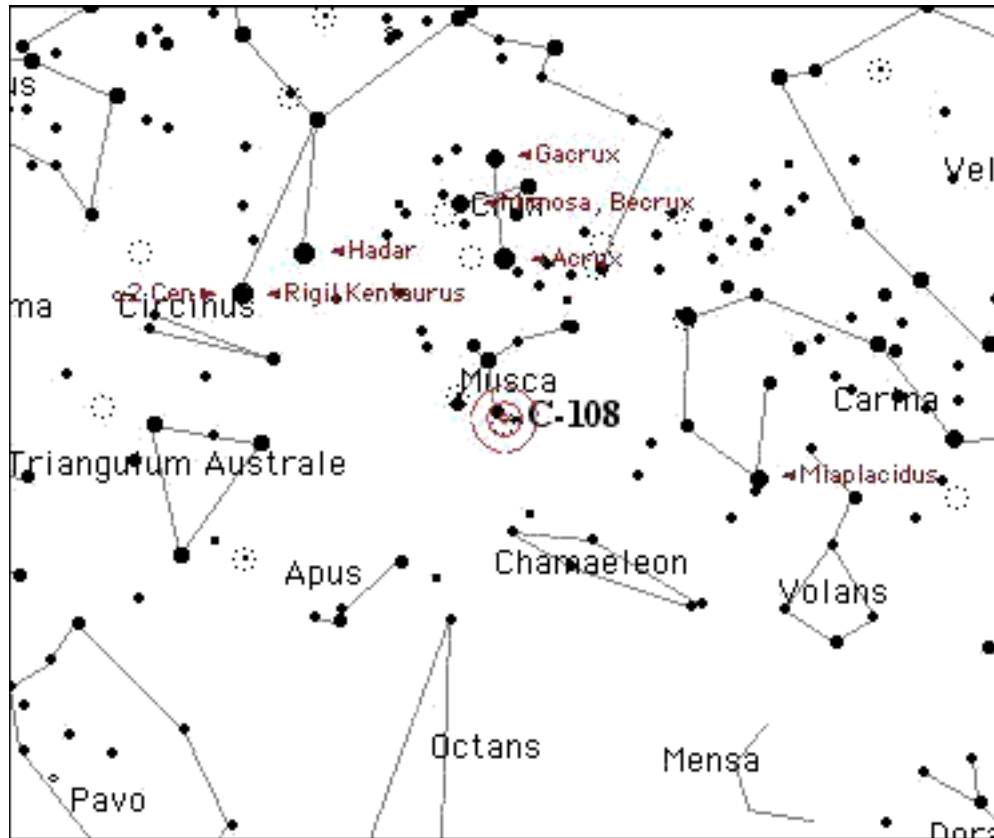
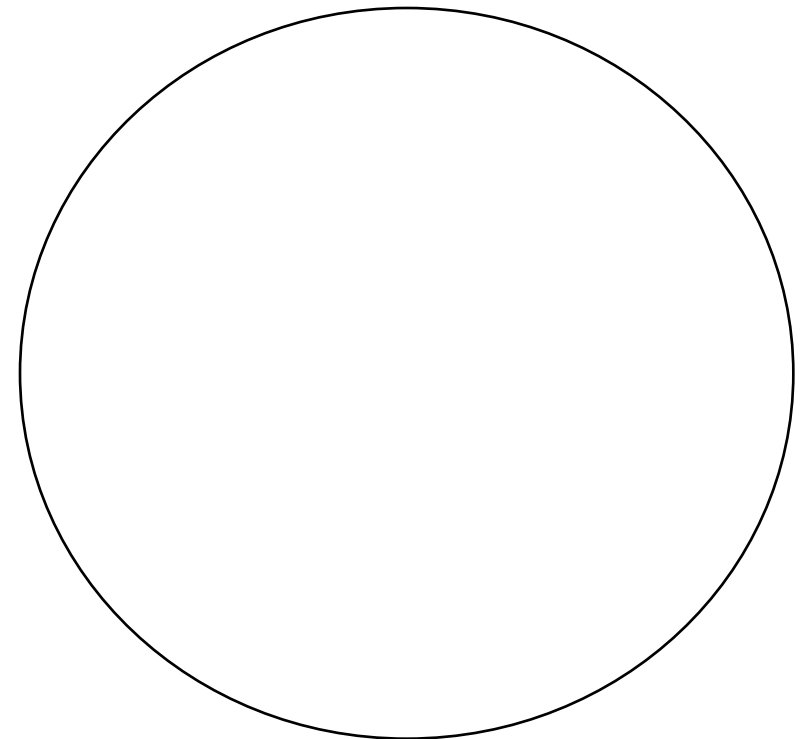
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing Transparency

Comments



Caldwell# 109

Name/Designation C-109
NGC # 3195

Seen?
Date

Type Planetary Nebula
Constellation Chamaeleon
Magnitude **Size** 0.6
RA 10 09.5 **Dec** -80 52

Hemisphere Southern
Season Early Spring

Sky Atlas 2000 page 25 **Other Chart Page(s)**

Description

Observing Notes

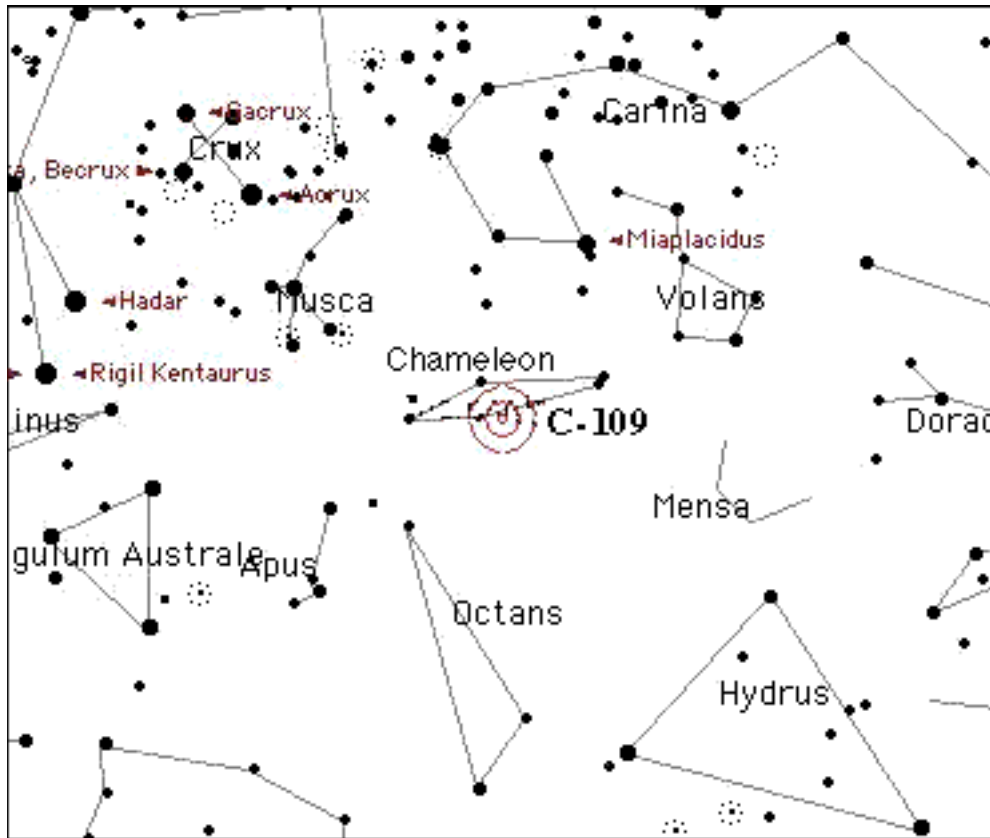
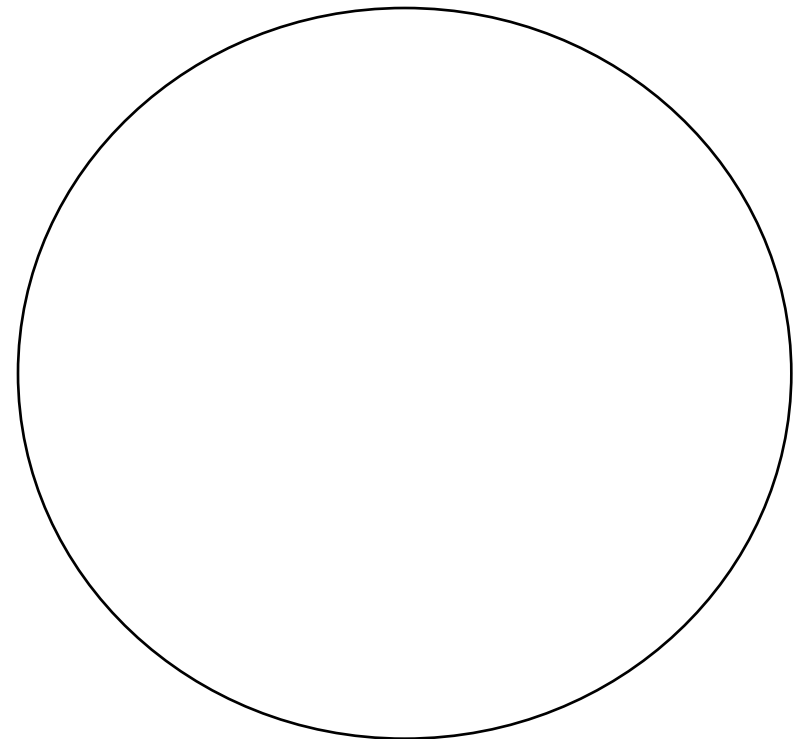
Viewing Time Comments

Observing Site

Equipment

Sky : Seeing **Transparency**

Comments



Star charts created by Starry Night Pro(TM) courtesy of Space.com Software

The Caldwell Observer's Log - Atlas Info

C#	NGC#	Constellation	Type	Description	SA2K Mag.	RA	Dec.	Size	Seen	Date
001	188	Cepheus	Open Cluster	C-1	3	8.1 00 44.4	+85 20	14		
002	40	Cepheus	Planetary Nebula	C-2	1	12.4 00 13.0	+72 32	0.6		
003	4236	Draco	Galaxy	C-3	2	9.7 12 16.7	+69 28	21 X 7		
004	7023	Cepheus	Diffuse Nebula	C-4 (Refl. Nebula)	3	21 01.8	+68 12	18 X 18		
005	IC 342	Camelopardalis	Galaxy	C-5	1	9.2 03 46.8	+68 06	18 X 17		
006	6543	Draco	Planetary Nebula	C-6 (Cat's Eye Neb.)	3	8.1 17 58.6	+66 38	0.3 / 5.8		
007	2403	Camelopardalis	Galaxy	C-7	1	8.4 07 36.9	+65 36	18 X 10		
008	559	Casseopeia	Open Cluster	C-8	1	9.5 01 29.5	+63 18	4		
009	?	Cepheus	Diffuse Nebula	C-9 (Cave Nebula)	3	22 56.8	+62 37	50 X 10		
010	663	Casseopeia	Open Cluster	C-10	1	7.1 01 46.0	+61 15	16		
011	7635	Casseopeia	Diffuse Nebula	C-11 (Bubble Nebula)	3	23 20.7	+61 12	15 X 18		
012	6946	Cepheus	Galaxy	C-12	3	8.9 20 34.8	+60 09	11 X 9		
013	457	Casseopeia	Open Cluster	C-13 (Phi Cas Cluster)	1	6.4 01 19.1	+58 20	13		
014	?	Perseus	Open Cluster	C-14 (Double Cluster)	1	4.3 02 20.0	+57 08	30 and 30		
015	6826	Cygnus	Planetary Nebula	C-15 (Blinking Nebula)	9	8.8 19 44.8	+50 31	0.5 / 2.3		
016	7243	Lacerta	Open Cluster	C-16	9	6.4 22 15.3	+49 53	21		
017	147	Casseopeia	Galaxy	C-17	9	9.3 00 33.2	+48 30	13 X 8		
018	185	Casseopeia	Galaxy	C-18	9	9.2 00 39.0	+48 20	12 X 9		
019	IC 5146	Cygnus	Diffuse Nebula	C-19 (Cocoon Nebula)	9	21 53.5	+47 16	12 X 12		
020	7000	Cygnus	Diffuse Nebula	C-20 (N. America Neb.)	9	20 58.8	+44 20	120 X 100		
021	4449	Canes Venatici	Galaxy	C-21	7	9.4 12 28.2	+44 06	5 X 3		
022	7662	Andromeda	Planetary Nebula	C-22 (Blue Snowball)	9	8.3 23 25.9	+42 33	0.3 / 2.2		
023	891	Andromeda	Galaxy	C-23	4	9.9 02 22.6	+42 21	14 X 2		
024	1275	Perseus	Galaxy	C-24 (Perseus A)	1	11.6 03 19.8	+41 31	2.6 X 1		
025	2419	Lynx	Globular Cluster	C-25 (Intergalactic Wanderer)	5	10.4 07 38.1	+38 53	4.1		
026	4244	Canes Venatici	Galaxy	C-26	7	10.2 12 17.5	+37 49	16 X 2.5		
027	6888	Cygnus	Diffuse Nebula	C-27 (Crescent Nebula)	9	20 12.0	+38 21	20 X 10		
028	752	Andromeda	Open Cluster	C-28	4	5.7 01 57.8	+37 41	50		
029	5005	Canes Venatici	Galaxy	C-29	7	9.8 13 10.9	+37 03	5.4 X 2		
030	7331	Pegasus	Galaxy	C-30	9	9.5 22 37.1	+34 25	11 X 4		
031	IC 405	Auriga	Diffuse Nebula	C-31 (Flaming Star Nebula)	5	05 16.2	+34 16	30 X 19		

The Caldwell Observer's Log - Atlas Info

C#	NGC#	Constellation	Type	Description	SA2K Mag.	RA	Dec.	Size	Seen	Date
032	4631	Canes Venatici	Galaxy	C-32 (Whale Galaxy)	7	9.3 12 42.1	+32 32	15 X 3		
033	6992	Cygnus	Diffuse Nebula	C-33 (Network Nebula)	9	20 56.4	+31 43	60 X 8		
034	6960	Cygnus	Diffuse Nebula	C-34 (Veil Nebula)	9	20 45.7	+30 43	70 X 6		
035	4889	Coma Berenices	Galaxy	C-35 (In Coma Cluster)	7	11.4 13 00.1	+27 59	3 X 2		
036	4559	Coma Berenices	Galaxy	C-36	7	9.8 12 36.0	+27 58	10 X 4		
037	6885	Vulpecula	Open Cluster	C-37	9	5.9 20 12.0	+26 29	7		
038	4565	Coma Berenices	Galaxy	C-38	7	9.6 12 36.3	+25 59	16 X 3		
039	2392	Gemini	Planetary Nebula	C-39 (Eskimo Nebula)	5	9.2 07 29.2	+20 55	0.2 / 0.7		
040	3626	Leo	Galaxy	C-40	6	10.9 11 20.1	+18 21	3 X 2		
041	N/A	Taurus	Open Cluster	C-41 (Hyades)	5	0.5 04 27.0	+16 00	330		
042	7006	Delphinus	Globular Cluster	C-42 (Very distant)	16	10.6 21 01.5	+16 11	2.8		
043	7814	Pegasus	Galaxy	C-43	17	10.5 00 03.3	+16 09	6 X 2		
044	7479	Pegasus	Galaxy	C-44	17	11 23 04.9	+12 19	4 X 3		
045	5248	Bootes	Galaxy	C-45	14	10.2 13 37.5	+08 53	6 X 4		
046	2261	Monoceros	Diffuse Nebula	C-46 (Hubble's Var.)	12	06 39.2	+08 44	2 X 1		
047	6934	Delphinus	Globular Cluster	C-47	16	8.9 20 34.2	+07 24	5.9		
048	2775	Cancer	Galaxy	C-48	12	10.3 09 10.3	+07 02	4.5 X 3		
049	2237	Monoceros	Diffuse Nebula	C-49 (Rosette Nebula)	12	06 32.3	+05 03	80 X 60		
050	2244	Monoceros	Open Cluster	C-50	12	4.8 06 32.4	+04 52	24		
051	IC 1613	Cetus	Galaxy	C-51	10	9.3 01 04.8	+02 07	12 X 11		
052	4697	Virgo	Galaxy	C-52	14	9.3 12 48.6	-05 48	6 X 3		
053	3115	Sextans	Galaxy	C-52 (Spindle Galaxy)	13	9.1 10 05.2	-07 43	8 X 3		
054	2506	Monoceros	Open Cluster	C-54	12	7.6 08 00.2	-10 47	7		
055	7009	Aquarius	Planetary Nebula	C-55 (Saturn Nebula)	16	8 21 04.2	-11 22	2.5 / 1		
056	246	Cetus	Planetary Nebula	C-56	10	10.9 00 47.0	-11 53	3.8		
057	6822	Sagittarius	Galaxy	C-57 (Barnard's Gal.)	22	8.8 19 44.9	-14 48	10 X 9		
058	2360	Canis Major	Open Cluster	C-58	12	7.2 07 17.8	-15 37	13		
059	3242	Hydra	Planetary Nebula	C-59 (Ghost of Jupiter)	13	7.8 10 24.8	-18 38	0.3 / 21		
060	4038	Corvus	Galaxy	C-60 (Antennae Galaxies)	21	10.7 12 01.9	-18 52	2.6 X 1.8		
061	4039	Corvus	Galaxy	C-61 (Antennae Galaxies)	21	10.7 12 01.9	-18 53	3.2 X 2.2		
062	247	Cetus	Galaxy	C-62	18	9.1 00 47.1	-20 46	20 X 7		

The Caldwell Observer's Log - Atlas Info

C#	NGC#	Constellation	Type	Description	SA2K Mag.	RA	Dec.	Size	Seen	Date
063	7293	Aquarius	Planetary Nebula	C-63 (Helix Nebula)	23	7.3	22 29.6	-20 48	13	
064	2362	Canis Major	Open Cluster	C-64 (Mexican Jumping Star)	19	4.1	07 18.8	-24 57	8	
065	253	Sculptor	Galaxy	C-65 (Sculptor Galaxy)	18	7.1	00 47.6	-25 17	25 X 7	
066	5694	Hydra	Globular Cluster	C-66	21	10.2	14 39.6	-26 32	3.6	
067	1097	Fornax	Galaxy	C-67	18	9.2	02 46.3	-30 17	9 X 6	
068	6729	Corona Australis	Diffuse Nebula	C-68 (R CrA Nebula)	22		19 01.9	-36 57	1	
069	6302	Scorpius	Planetary Nebula	C-69 (Bug Nebula)	22	9.6	17 13.7	-37 06	0.8	
070	300	Sculptor	Galaxy	C-70	18	8.7	00 54.9	-37 41	20 X 13	
071	2477	Puppis	Open Cluster	C-71	19	5.8	07 52.3	-38 33	27	
072	55	Sculptor	Galaxy	C-72 (In Sculptor Group)	18	7.9	00 14.9	-39 11	32 X 6	
073	1851	Columba	Globular Cluster	C-73	19	7.3	05 14.1	-40 03	11	
074	3132	Vela	Planetary Nebula	C-74	20	9.4	10 07.7	-40 26	0.8	
075	6124	Scorpius	Open Cluster	C-75	22	5.8	16 25.6	-40 40	29	
076	6231	Scorpius	Open Cluster	C-76	22	2.6	16 54.0	-41 48	15	
077	5128	Centaurus	Galaxy	C-77 (Centaurus A)	21	7	13 25.5	-43 01	18 X 14	
078	6541	Corona Australis	Globular Cluster	C-78	22	6.6	18 08.0	-43 42	13	
079	3201	Vela	Globular Cluster	C-79	20	6.7	10 17.6	-46 25	18	
080	5139	Centaurus	Globular Cluster	C-82 (Omega Centauri)	21	3.6	13 26.8	-47 29	36	
081	6352	Ara	Globular Cluster	C-81	22	8.1	17 25.5	-48 25	7	
082	6193	Ara	Open Cluster	C-82	22	5.2	16 41.3	-48 46	15	
083	4945	Centaurus	Galaxy	C-83	21	8.7	13 05.4	-49 28	20 X 4	
084	5286	Centaurus	Globular Cluster	C-84	21	7.6	13 46.4	-51 22	9	
085	IC 2391	Vela	Open Cluster	C-85 (Omicron Velorum)	20	2.5	08 40.2	-53 04	50	
086	6397	Ara	Globular Cluster	C-86	22	5.6	17 40.7	-53 40	26	
087	1261	Horologium	Globular Cluster	C-87	18	8.4	03 12.3	-55 13	7	
088	5823	Circinus	Open Cluster	C-88	25	7.9	15 05.7	-55 36	10	
089	6067	Norma	Open Cluster	C-89 (S Nor Cluster)	25	5.4	16 18.9	-57 54	12	
090	2867	Carina	Planetary Nebula	C-90	25		09 21.4	-58 19	0.2	
091	3532	Carina	Open Cluster	C-91	25	3	11 06.4	-58 40	55	
092	3372	Carina	Diffuse Nebula	C-92 (Keyhole Nebula)	25		10 43.8	-59 52	120 X 120	
093	6752	Pavo	Globular Cluster	C-93	25	5.4	19 10.9	-59 59	20	

The Caldwell Observer's Log - Atlas Info

C#	NGC#	Constellation	Type	Description	SA2K Mag.	RA	Dec.	Size	Seen	Date
094	4755	Crux	Open Cluster	C-94 (Jewel Box Cl.)	25	4.2 12 53.6	-60 20	10		
095	6025	Triangulum Australe	Open Cluster	C-95	26	5.1 16 03.7	-60 30	12		
096	2516	Carina	Open Cluster	C-96	25	3.8 07 58.3	-60 52	30		
097	3766	Centaurus	Open Cluster	C-97	25	5.3 11 36.1	-61 37	12		
098	4609	Crux	Open Cluster	C-98	25	6.9 12 42.3	-62 58	5		
099	N/A	Crux	Dark Nebula	C-99 (Coalsack)	25	12 53.0	-63 00	400 X 300		
100	IC 2944	Centaurus	Open Cluster	C-100 (Lambda Centauri	25	4.5 11 36.6	-63 02	15		
101	6744	Pavo	Galaxy	C-101	25	8.3 19 09.8	-63 51	16 X 10		
102	IC 2602	Carina	Open Cluster	C-102 (Southern Pleiades)	25	1.9 10 43.2	-64 24	50		
103	2070	Dorado	Diffuse Nebula	C-103 (Tarantula Neb.)	24	05 38.7	-69 06	40 X 25		
104	362	Tucana	Globular Cluster	C-104	24	6.6 01 03.2	-70 51	13		
105	4833	Musca	Globular Cluster	C-105	25	7.3 12 59.6	-70 53	14		
106	104	Tucana	Globular Cluster	C-106 (47 Tucanae)	24	4 00 24.1	-72 05	31		
107	6101	Apus	Globular Cluster	C-107	26	9.3 16 25.8	-72 12	11		
108	4372	Musca	Globular Cluster	C-108	25	7.8 12 25.8	-72 40	19		
109	3195	Chamaeleon	Planetary Nebula	C-109	25	10 09.5	-80 52	0.6		

The Caldwell Observer's Log - View by Season

Caldwell#	Designation/Name	Constellation	SA 2K		RA	Dec	Mag.	Size	Seen?	Date
			Pg. #	NGC #						
<i>Winter</i>										
<i>Best Viewed in: Either hemisphere</i>										
022	C-22 (Blue Snowball)	Andromeda	9	7662	23 25.9	+42 33	8.3	0.3 / 2.2	<input type="checkbox"/>	
023	C-23	Andromeda	4	891	02 22.6	+42 21	9.9	14 X 2	<input type="checkbox"/>	
028	C-28	Andromeda	4	752	01 57.8	+37 41	5.7	50	<input type="checkbox"/>	
031	C-31 (Flaming Star Nebula)	Auriga	5	IC 405	05 16.2	+34 16		30 X 19	<input type="checkbox"/>	
058	C-58	Canis Major	12	2360	07 17.8	-15 37	7.2	13	<input type="checkbox"/>	
064	C-64 (Mexican Jumping Star)	Canis Major	19	2362	07 18.8	-24 57	4.1	8	<input type="checkbox"/>	
039	C-39 (Eskimo Nebula)	Gemini	5	2392	07 29.2	+20 55	9.2	0.2 / 0.7	<input type="checkbox"/>	
046	C-46 (Hubble's Var.)	Monoceros	12	2261	06 39.2	+08 44		2 X 1	<input type="checkbox"/>	
050	C-50	Monoceros	12	2244	06 32.4	+04 52	4.8	24	<input type="checkbox"/>	
054	C-54	Monoceros	12	2506	08 00.2	-10 47	7.6	7	<input type="checkbox"/>	
014	C-14 (Double Cluster)	Perseus	1	869/884	02 20.0	+57 08	4.3	30 and 30	<input type="checkbox"/>	
024	C-24 (Perseus A)	Perseus	1	1275	03 19.8	+41 31	11.6	2.6 X 1	<input type="checkbox"/>	
071	C-71	Puppis	19	2477	07 52.3	-38 33	5.8	27	<input type="checkbox"/>	
041	C-41 (Hyades)	Taurus	5	N/A	04 27.0	+16 00	0.5	330	<input type="checkbox"/>	
<i>Best Viewed in: Northern hemisphere</i>										
008	C-8	Casseopeia	1	559	01 29.5	+63 18	9.5	4	<input type="checkbox"/>	
010	C-10	Casseopeia	1	663	01 46.0	+61 15	7.1	16	<input type="checkbox"/>	
011	C-11 (Bubble Nebula)	Casseopeia	3	7635	23 20.7	+61 12		15 X 18	<input type="checkbox"/>	
013	C-13 (Phi Cas Cluster)	Casseopeia	1	457	01 19.1	+58 20	6.4	13	<input type="checkbox"/>	
017	C-17	Casseopeia	9	147	00 33.2	+48 30	9.3	13 X 8	<input type="checkbox"/>	
018	C-18	Casseopeia	9	185	00 39.0	+48 20	9.2	12 X 9	<input type="checkbox"/>	
049	C-49 (Rosette Nebula)	Monoceros	12	2237	06 32.3	+05 03		80 X 60	<input type="checkbox"/>	
<i>Best Viewed in: Southern hemisphere</i>										
090	C-90	Carina	25	2867	09 21.4	-58 19		0.2	<input type="checkbox"/>	
091	C-91	Carina	25	3532	11 06.4	-58 40	3	55	<input type="checkbox"/>	
092	C-92 (Keyhole Nebula)	Carina	25	3372	10 43.8	-59 52		120 X 120	<input type="checkbox"/>	
096	C-96	Carina	25	2516	07 58.3	-60 52	3.8	30	<input type="checkbox"/>	
102	C-102 (Southern Pleiades)	Carina	25	IC 2602	10 43.2	-64 24	1.9	50	<input type="checkbox"/>	
073	C-73	Columba	19	1851	05 14.1	-40 03	7.3	11	<input type="checkbox"/>	
103	C-103 (Tarantula Neb.)	Dorado	24	2070	05 38.7	-69 06		40 X 25	<input type="checkbox"/>	

The Caldwell Observer's Log - View by Season

Caldwell#	Designation/Name	Constellation	SA 2K		RA	Dec	Mag.	Size	Seen?	Date
			Pg. #	NGC #						
<i>Early Spring</i>										
<i>Best Viewed in: Either hemisphere</i>										
048	C-48	Cancer	12	2775	09 10.3	+07 02	10.3	4.5 X 3	<input type="checkbox"/>	
059	C-59 (Ghost of Jupiter)	Hydra	13	3242	10 24.8	-18 38	7.8	0.3 / 21	<input type="checkbox"/>	
066	C-66	Hydra	21	5694	14 39.6	-26 32	10.2	3.6	<input type="checkbox"/>	
025	C-25 (Intergalactic Wanderer)	Lynx	5	2419	07 38.1	+38 53	10.4	4.1	<input type="checkbox"/>	
053	C-52 (Spindle Galaxy)	Sextans	13	3115	10 05.2	-07 43	9.1	8 X 3	<input type="checkbox"/>	
<i>Best Viewed in: Northern hemisphere</i>										
021	C-21	Canes Venatici	7	4449	12 28.2	+44 06	9.4	5 X 3	<input type="checkbox"/>	
026	C-26	Canes Venatici	7	4244	12 17.5	+37 49	10.2	16 X 2.5	<input type="checkbox"/>	
029	C-29	Canes Venatici	7	5005	13 10.9	+37 03	9.8	5.4 X 2	<input type="checkbox"/>	
032	C-32 (Whale Galaxy)	Canes Venatici	7	4631	12 42.1	+32 32	9.3	15 X 3	<input type="checkbox"/>	
<i>Best Viewed in: Southern hemisphere</i>										
109	C-109	Chamaeleon	25	3195	10 09.5	-80 52		0.6	<input type="checkbox"/>	

The Caldwell Observer's Log - View by Season

Caldwell#	Designation/Name	Constellation	SA 2K		RA	Dec	Mag.	Size	Seen?	Date
			Pg. #	NGC #						
<i>Late Spring</i>										
<i>Best Viewed in: Either hemisphere</i>										
045	C-45	Bootes	14	5248	13 37.5	+08 53	10.2	6 X 4	<input type="checkbox"/>	
035	C-35 (In Coma Cluster)	Coma Berenices	7	4889	13 00.1	+27 59	11.4	3 X 2	<input type="checkbox"/>	
036	C-36	Coma Berenices	7	4559	12 36.0	+27 58	9.8	10 X 4	<input type="checkbox"/>	
038	C-38	Coma Berenices	7	4565	12 36.3	+25 59	9.6	16 X 3	<input type="checkbox"/>	
060	C-60 (Antennae Galaxies)	Corvus	21	4038	12 01.9	-18 52	10.7	2.6 X 1.8	<input type="checkbox"/>	
061	C-61 (Antennae Galaxies)	Corvus	21	4039	12 01.9	-18 53	10.7	3.2 X 2.2	<input type="checkbox"/>	
040	C-40	Leo	6	3626	11 20.1	+18 21	10.9	3 X 2	<input type="checkbox"/>	
052	C-52	Virgo	14	4697	12 48.6	-05 48	9.3	6 X 3	<input type="checkbox"/>	
<i>Best Viewed in: Southern hemisphere</i>										
107	C-107	Apus	26	6101	16 25.8	-72 12	9.3	11	<input type="checkbox"/>	
081	C-81	Ara	22	6352	17 25.5	-48 25	8.1	7	<input type="checkbox"/>	
082	C-82	Ara	22	6193	16 41.3	-48 46	5.2	15	<input type="checkbox"/>	
086	C-86	Ara	22	6397	17 40.7	-53 40	5.6	26	<input type="checkbox"/>	
077	C-77 (Centaurus A)	Centaurus	21	5128	13 25.5	-43 01	7	18 X 14	<input type="checkbox"/>	
080	C-82 (Omega Centauri)	Centaurus	21	5139	13 26.8	-47 29	3.6	36	<input type="checkbox"/>	
083	C-83	Centaurus	21	4945	13 05.4	-49 28	8.7	20 X 4	<input type="checkbox"/>	
084	C-84	Centaurus	21	5286	13 46.4	-51 22	7.6	9	<input type="checkbox"/>	
097	C-97	Centaurus	25	3766	11 36.1	-61 37	5.3	12	<input type="checkbox"/>	
100	C-100 (Lambda Centauri Nebula)	Centaurus	25	IC 2944	11 36.6	-63 02	4.5	15	<input type="checkbox"/>	
088	C-88	Circinus	25	5823	15 05.7	-55 36	7.9	10	<input type="checkbox"/>	
094	C-94 (Jewel Box Cl.)	Crux	25	4755	12 53.6	-60 20	4.2	10	<input type="checkbox"/>	
098	C-98	Crux	25	4609	12 42.3	-62 58	6.9	5	<input type="checkbox"/>	
099	C-99 (Coalsack)	Crux	25	N/A	12 53.0	-63 00		400 X 300	<input type="checkbox"/>	
105	C-105	Musca	25	4833	12 59.6	-70 53	7.3	14	<input type="checkbox"/>	
108	C-108	Musca	25	4372	12 25.8	-72 40	7.8	19	<input type="checkbox"/>	
089	C-89 (S Nor Cluster)	Norma	25	6067	16 18.9	-57 54	5.4	12	<input type="checkbox"/>	
074	C-74	Vela	20	3132	10 07.7	-40 26	9.4	0.8	<input type="checkbox"/>	
079	C-79	Vela	20	3201	10 17.6	-46 25	6.7	18	<input type="checkbox"/>	
085	C-85 (Omicron Velorum Cluster)	Vela	20	IC 2391	08 40.2	-53 04	2.5	50	<input type="checkbox"/>	

The Caldwell Observer's Log - View by Season

SA 2K

Caldwell#	Designation/Name	Constellation	Pg. #	NGC #	RA	Dec	Mag.	Size	Seen?	Date
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Mid-Summer

Best Viewed in: Either hemisphere

042	C-42 (Very distant)	Delphinus	16	7006	21 01.5	+16 11	10.6	2.8	<input type="checkbox"/>	
047	C-47	Delphinus	16	6934	20 34.2	+07 24	8.9	5.9	<input type="checkbox"/>	
069	C-69 (Bug Nebula)	Scorpius	22	6302	17 13.7	-37 06	9.6	0.8	<input type="checkbox"/>	
075	C-75	Scorpius	22	6124	16 25.6	-40 40	5.8	29	<input type="checkbox"/>	
076	C-76	Scorpius	22	6231	16 54.0	-41 48	2.6	15	<input type="checkbox"/>	

Best Viewed in: Northern hemisphere

003	C-3	Draco	2	4236	12 16.7	+69 28	9.7	21 X 7	<input type="checkbox"/>	
006	C-6 (Cat's Eye Neb.)	Draco	3	6543	17 58.6	+66 38	8.1	0.3 / 5.8	<input type="checkbox"/>	

The Caldwell Observer's Log - View by Season

SA 2K

Caldwell#	Designation/Name	Constellation	Pg. #	NGC #	RA	Dec	Mag.	Size	Seen?	Date
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Late Summer

Best Viewed in: Either hemisphere

016	C-16	Lacerta	9	7243	22 15.3	+49 53	6.4	21	<input type="checkbox"/>	
057	C-57 (Barnard's Gal.)	Sagittarius	22	6822	19 44.9	-14 48	8.8	10 X 9	<input type="checkbox"/>	

Best Viewed in: Northern hemisphere

015	C-15 (Blinking Nebula)	Cygnus	9	6826	19 44.8	+50 31	8.8	0.5 / 2.3	<input type="checkbox"/>	
019	C-19 (Cocoon Nebula)	Cygnus	9	IC 5146	21 53.5	+47 16		12 X 12	<input type="checkbox"/>	
020	C-20 (N. America Neb.)	Cygnus	9	7000	20 58.8	+44 20		120 X 100	<input type="checkbox"/>	
027	C-27 (Crescent Nebula)	Cygnus	9	6888	20 12.0	+38 21		20 X 10	<input type="checkbox"/>	
033	C-33 (Network Nebula)	Cygnus	9	6992	20 56.4	+31 43		60 X 8	<input type="checkbox"/>	
034	C-34 (Veil Nebula)	Cygnus	9	6960	20 45.7	+30 43		70 X 6	<input type="checkbox"/>	

Best Viewed in: Southern hemisphere

068	C-68 (R CrA Nebula)	Corona Australis	22	6729	19 01.9	-36 57		1	<input type="checkbox"/>	
078	C-78	Corona Australis	22	6541	18 08.0	-43 42	6.6	13	<input type="checkbox"/>	
093	C-93	Pavo	25	6752	19 10.9	-59 59	5.4	20	<input type="checkbox"/>	
101	C-101	Pavo	25	6744	19 09.8	-63 51	8.3	16 X 10	<input type="checkbox"/>	

The Caldwell Observer's Log - View by Season

Caldwell#	Designation/Name	Constellation	SA 2K		RA	Dec	Mag.	Size	Seen?	Date
			Pg. #	NGC #						
<i>Fall/Early Winter</i>										
<i>Best Viewed in: Either hemisphere</i>										
055	C-55 (Saturn Nebula)	Aquarius	16	7009	21 04.2	-11 22	8	2.5 / 1	<input type="checkbox"/>	
063	C-63 (Helix Nebula)	Aquarius	23	7293	22 29.6	-20 48	7.3	13	<input type="checkbox"/>	
051	C-51	Cetus	10	IC 1613	01 04.8	+02 07	9.3	12 X 11	<input type="checkbox"/>	
056	C-56	Cetus	10	246	00 47.0	-11 53	10.9	3.8	<input type="checkbox"/>	
062	C-62	Cetus	18	247	00 47.1	-20 46	9.1	20 X 7	<input type="checkbox"/>	
067	C-67	Fornax	18	1097	02 46.3	-30 17	9.2	9 X 6	<input type="checkbox"/>	
030	C-30	Pegasus	9	7331	22 37.1	+34 25	9.5	11 X 4	<input type="checkbox"/>	
043	C-43	Pegasus	17	7814	00 03.3	+16 09	10.5	6 X 2	<input type="checkbox"/>	
044	C-44	Pegasus	17	7479	23 04.9	+12 19	11	4 X 3	<input type="checkbox"/>	
065	C-65 (Sculptor Galaxy)	Sculptor	18	253	00 47.6	-25 17	7.1	25 X 7	<input type="checkbox"/>	
070	C-70	Sculptor	18	300	00 54.9	-37 41	8.7	20 X 13	<input type="checkbox"/>	
072	C-72 (In Sculptor Group)	Sculptor	18	55	00 14.9	-39 11	7.9	32 X 6	<input type="checkbox"/>	
095	C-95	Triangulum	26	6025	16 03.7	-60 30	5.1	12	<input type="checkbox"/>	
<i>Best Viewed in: Northern hemisphere</i>										
005	C-5	Camelopardalis	1	IC 342	03 46.8	+68 06	9.2	18 X 17	<input type="checkbox"/>	
007	C-7	Camelopardalis	1	2403	07 36.9	+65 36	8.4	18 X 10	<input type="checkbox"/>	
001	C-1	Cepheus	3	188	00 44.4	+85 20	8.1	14	<input type="checkbox"/>	
002	C-2	Cepheus	1	40	00 13.0	+72 32	12.4	0.6	<input type="checkbox"/>	
004	C-4 (Refl. Nebula)	Cepheus	3	7023	21 01.8	+68 12		18 X 18	<input type="checkbox"/>	
009	C-9 (Cave Nebula)	Cepheus	3	Sh2-155	22 56.8	+62 37		50 X 10	<input type="checkbox"/>	
012	C-12	Cepheus	3	6946	20 34.8	+60 09	8.9	11 X 9	<input type="checkbox"/>	
037	C-37	Vulpecula	9	6885	20 12.0	+26 29	5.9	7	<input type="checkbox"/>	
<i>Best Viewed in: Southern hemisphere</i>										
087	C-87	Horologium	18	1261	03 12.3	-55 13	8.4	7	<input type="checkbox"/>	
104	C-104	Tucana	24	362	01 03.2	-70 51	6.6	13	<input type="checkbox"/>	
106	C-106 (47 Tucanae)	Tucana	24	104	00 24.1	-72 05	4	31	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Andromeda

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
022	7662	Planetary Nebula	C-22 (Blue Snowball)	8.3	23 25.9	+42 33	0.3 / 2.2	<input type="checkbox"/>	
023	891	Galaxy	C-23	9.9	02 22.6	+42 21	14 X 2	<input type="checkbox"/>	
028	752	Open Cluster	C-28	5.7	01 57.8	+37 41	50	<input type="checkbox"/>	

Apus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
107	6101	Globular Cluster	C-107	9.3	16 25.8	-72 12	11	<input type="checkbox"/>	

Aquarius

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
055	7009	Planetary Nebula	C-55 (Saturn Nebula)	8	21 04.2	-11 22	2.5 / 1	<input type="checkbox"/>	
063	7293	Planetary Nebula	C-63 (Helix Nebula)	7.3	22 29.6	-20 48	13	<input type="checkbox"/>	

Ara

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
081	6352	Globular Cluster	C-81	8.1	17 25.5	-48 25	7	<input type="checkbox"/>	
082	6193	Open Cluster	C-82	5.2	16 41.3	-48 46	15	<input type="checkbox"/>	
086	6397	Globular Cluster	C-86	5.6	17 40.7	-53 40	26	<input type="checkbox"/>	

Auriga

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
031	IC 405	Diffuse Nebula	C-31 (Flaming Star Nebula)		05 16.2	+34 16	30 X 19	<input type="checkbox"/>	

Bootes

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
045	5248	Galaxy	C-45	10.2	13 37.5	+08 53	6 X 4	<input type="checkbox"/>	

Camelopardalis

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
005	IC 342	Galaxy	C-5	9.2	03 46.8	+68 06	18 X 17	<input type="checkbox"/>	
007	2403	Galaxy	C-7	8.4	07 36.9	+65 36	18 X 10	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Cancer

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
048	2775	Galaxy	C-48	10.3	09 10.3	+07 02	4.5 X 3	<input type="checkbox"/>	

Canes Venatici

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
021	4449	Galaxy	C-21	9.4	12 28.2	+44 06	5 X 3	<input type="checkbox"/>	
026	4244	Galaxy	C-26	10.2	12 17.5	+37 49	16 X 2.5	<input type="checkbox"/>	
029	5005	Galaxy	C-29	9.8	13 10.9	+37 03	5.4 X 2	<input type="checkbox"/>	
032	4631	Galaxy	C-32 (Whale Galaxy)	9.3	12 42.1	+32 32	15 X 3	<input type="checkbox"/>	

Canis Major

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
058	2360	Open Cluster	C-58	7.2	07 17.8	-15 37	13	<input type="checkbox"/>	
064	2362	Open Cluster	C-64 (Mexican Jumping Star)	4.1	07 18.8	-24 57	8	<input type="checkbox"/>	

Carina

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
090	2867	Planetary Nebula	C-90		09 21.4	-58 19	0.2	<input type="checkbox"/>	
091	3532	Open Cluster	C-91	3	11 06.4	-58 40	55	<input type="checkbox"/>	
092	3372	Diffuse Nebula	C-92 (Keyhole Nebula)		10 43.8	-59 52	120 X 120	<input type="checkbox"/>	
096	2516	Open Cluster	C-96	3.8	07 58.3	-60 52	30	<input type="checkbox"/>	
102	IC 2602	Open Cluster	C-102 (Southern Pleiades)	1.9	10 43.2	-64 24	50	<input type="checkbox"/>	

Casseopeia

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
008	559	Open Cluster	C-8	9.5	01 29.5	+63 18	4	<input type="checkbox"/>	
010	663	Open Cluster	C-10	7.1	01 46.0	+61 15	16	<input type="checkbox"/>	
011	7635	Diffuse Nebula	C-11 (Bubble Nebula)		23 20.7	+61 12	15 X 18	<input type="checkbox"/>	
013	457	Open Cluster	C-13 (Phi Cas Cluster)	6.4	01 19.1	+58 20	13	<input type="checkbox"/>	
017	147	Galaxy	C-17	9.3	00 33.2	+48 30	13 X 8	<input type="checkbox"/>	
018	185	Galaxy	C-18	9.2	00 39.0	+48 20	12 X 9	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Centaurus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
077	5128	Galaxy	C-77 (Centaurus A)	7	13 25.5	-43 01	18 X 14	<input type="checkbox"/>	
080	5139	Globular Cluster	C-82 (Omega Centauri)	3.6	13 26.8	-47 29	36	<input type="checkbox"/>	
083	4945	Galaxy	C-83	8.7	13 05.4	-49 28	20 X 4	<input type="checkbox"/>	
084	5286	Globular Cluster	C-84	7.6	13 46.4	-51 22	9	<input type="checkbox"/>	
097	3766	Open Cluster	C-97	5.3	11 36.1	-61 37	12	<input type="checkbox"/>	
100	IC 2944	Open Cluster	C-100 (Lambda Centauri)	4.5	11 36.6	-63 02	15	<input type="checkbox"/>	

Cepheus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
001	188	Open Cluster	C-1	8.1	00 44.4	+85 20	14	<input type="checkbox"/>	
002	40	Planetary Nebula	C-2	12.4	00 13.0	+72 32	0.6	<input type="checkbox"/>	
004	7023	Diffuse Nebula	C-4 (Refl. Nebula)		21 01.8	+68 12	18 X 18	<input type="checkbox"/>	
009	?	Diffuse Nebula	C-9 (Cave Nebula)		22 56.8	+62 37	50 X 10	<input type="checkbox"/>	
012	6946	Galaxy	C-12	8.9	20 34.8	+60 09	11 X 9	<input type="checkbox"/>	

Cetus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
051	IC 1613	Galaxy	C-51	9.3	01 04.8	+02 07	12 X 11	<input type="checkbox"/>	
056	246	Planetary Nebula	C-56	10.9	00 47.0	-11 53	3.8	<input type="checkbox"/>	
062	247	Galaxy	C-62	9.1	00 47.1	-20 46	20 X 7	<input type="checkbox"/>	

Chamaeleon

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
109	3195	Planetary Nebula	C-109		10 09.5	-80 52	0.6	<input type="checkbox"/>	

Circinus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
088	5823	Open Cluster	C-88	7.9	15 05.7	-55 36	10	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Columba

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
073	1851	Globular Cluster	C-73	7.3	05 14.1	-40 03	11	<input type="checkbox"/>	

Coma Berenices

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
035	4889	Galaxy	C-35 (In Coma Cluster)	11.4	13 00.1	+27 59	3 X 2	<input type="checkbox"/>	
036	4559	Galaxy	C-36	9.8	12 36.0	+27 58	10 X 4	<input type="checkbox"/>	
038	4565	Galaxy	C-38	9.6	12 36.3	+25 59	16 X 3	<input type="checkbox"/>	

Corona Australis

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
068	6729	Diffuse Nebula	C-68 (R CrA Nebula)		19 01.9	-36 57	1	<input type="checkbox"/>	
078	6541	Globular Cluster	C-78	6.6	18 08.0	-43 42	13	<input type="checkbox"/>	

Corvus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
060	4038	Galaxy	C-60 (Antennae Galaxies)	10.7	12 01.9	-18 52	2.6 X 1.8	<input type="checkbox"/>	
061	4039	Galaxy	C-61 (Antennae Galaxies)	10.7	12 01.9	-18 53	3.2 X 2.2	<input type="checkbox"/>	

Crux

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
094	4755	Open Cluster	C-94 (Jewel Box Cl.)	4.2	12 53.6	-60 20	10	<input type="checkbox"/>	
098	4609	Open Cluster	C-98	6.9	12 42.3	-62 58	5	<input type="checkbox"/>	
099	N/A	Dark Nebula	C-99 (Coalsack)		12 53.0	-63 00	400 X 300	<input type="checkbox"/>	

Cygnus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
015	6826	Planetary Nebula	C-15 (Blinking Nebula)	8.8	19 44.8	+50 31	0.5 / 2.3	<input type="checkbox"/>	
019	IC 5146	Diffuse Nebula	C-19 (Cocoon Nebula)		21 53.5	+47 16	12 X 12	<input type="checkbox"/>	
020	7000	Diffuse Nebula	C-20 (N. America Neb.)		20 58.8	+44 20	120 X 100	<input type="checkbox"/>	
027	6888	Diffuse Nebula	C-27 (Crescent Nebula)		20 12.0	+38 21	20 X 10	<input type="checkbox"/>	
033	6992	Diffuse Nebula	C-33 (Network Nebula)		20 56.4	+31 43	60 X 8	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

034 6960 Diffuse Nebula C-34 (Veil Nebula) 20 45.7 +30 43 70 X 6

Delphinus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
042	7006	Globular Cluster	C-42 (Very distant)	10.6	21 01.5	+16 11	2.8	<input type="checkbox"/>	
047	6934	Globular Cluster	C-47	8.9	20 34.2	+07 24	5.9	<input type="checkbox"/>	

Dorado

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
103	2070	Diffuse Nebula	C-103 (Tarantula Neb.)		05 38.7	-69 06	40 X 25	<input type="checkbox"/>	

Draco

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
003	4236	Galaxy	C-3	9.7	12 16.7	+69 28	21 X 7	<input type="checkbox"/>	
006	6543	Planetary Nebula	C-6 (Cat's Eye Neb.)	8.1	17 58.6	+66 38	0.3 / 5.8	<input type="checkbox"/>	

Fornax

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
067	1097	Galaxy	C-67	9.2	02 46.3	-30 17	9 X 6	<input type="checkbox"/>	

Gemini

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
039	2392	Planetary Nebula	C-39 (Eskimo Nebula)	9.2	07 29.2	+20 55	0.2 / 0.7	<input type="checkbox"/>	

Horologium

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
087	1261	Globular Cluster	C-87	8.4	03 12.3	-55 13	7	<input type="checkbox"/>	

Hydra

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
059	3242	Planetary Nebula	C-59 (Ghost of Jupiter)	7.8	10 24.8	-18 38	0.3 / 21	<input type="checkbox"/>	
066	5694	Globular Cluster	C-66	10.2	14 39.6	-26 32	3.6	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Lacerta

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
016	7243	Open Cluster	C-16	6.4	22 15.3	+49 53	21	<input type="checkbox"/>	

Leo

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
040	3626	Galaxy	C-40	10.9	11 20.1	+18 21	3 X 2	<input type="checkbox"/>	

Lynx

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
025	2419	Globular Cluster	C-25 (Intergalactic Wanderer)	10.4	07 38.1	+38 53	4.1	<input type="checkbox"/>	

Monoceros

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
046	2261	Diffuse Nebula	C-46 (Hubble's Var.)		06 39.2	+08 44	2 X 1	<input type="checkbox"/>	
049	2237	Diffuse Nebula	C-49 (Rosette Nebula)		06 32.3	+05 03	80 X 60	<input type="checkbox"/>	
050	2244	Open Cluster	C-50	4.8	06 32.4	+04 52	24	<input type="checkbox"/>	
054	2506	Open Cluster	C-54	7.6	08 00.2	-10 47	7	<input type="checkbox"/>	

Musca

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
105	4833	Globular Cluster	C-105	7.3	12 59.6	-70 53	14	<input type="checkbox"/>	
108	4372	Globular Cluster	C-108	7.8	12 25.8	-72 40	19	<input type="checkbox"/>	

Norma

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
089	6067	Open Cluster	C-89 (S Nor Cluster)	5.4	16 18.9	-57 54	12	<input type="checkbox"/>	

Pavo

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
093	6752	Globular Cluster	C-93	5.4	19 10.9	-59 59	20	<input type="checkbox"/>	
101	6744	Galaxy	C-101	8.3	19 09.8	-63 51	16 X 10	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Pegasus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
030	7331	Galaxy	C-30	9.5	22 37.1	+34 25	11 X 4	<input type="checkbox"/>	
043	7814	Galaxy	C-43	10.5	00 03.3	+16 09	6 X 2	<input type="checkbox"/>	
044	7479	Galaxy	C-44	11	23 04.9	+12 19	4 X 3	<input type="checkbox"/>	

Perseus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
014	?	Open Cluster	C-14 (Double Cluster)	4.3	02 20.0	+57 08	30 and 30	<input type="checkbox"/>	
024	1275	Galaxy	C-24 (Perseus A)	11.6	03 19.8	+41 31	2.6 X 1	<input type="checkbox"/>	

Puppis

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
071	2477	Open Cluster	C-71	5.8	07 52.3	-38 33	27	<input type="checkbox"/>	

Sagittarius

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
057	6822	Galaxy	C-57 (Barnard's Gal.)	8.8	19 44.9	-14 48	10 X 9	<input type="checkbox"/>	

Scorpius

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
069	6302	Planetary Nebula	C-69 (Bug Nebula)	9.6	17 13.7	-37 06	0.8	<input type="checkbox"/>	
075	6124	Open Cluster	C-75	5.8	16 25.6	-40 40	29	<input type="checkbox"/>	
076	6231	Open Cluster	C-76	2.6	16 54.0	-41 48	15	<input type="checkbox"/>	

Sculptor

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
065	253	Galaxy	C-65 (Sculptor Galaxy)	7.1	00 47.6	-25 17	25 X 7	<input type="checkbox"/>	
070	300	Galaxy	C-70	8.7	00 54.9	-37 41	20 X 13	<input type="checkbox"/>	
072	55	Galaxy	C-72 (In Sculptor Group)	7.9	00 14.9	-39 11	32 X 6	<input type="checkbox"/>	

Sextans

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
053	3115	Galaxy	C-52 (Spindle Galaxy)	9.1	10 05.2	-07 43	8 X 3	<input type="checkbox"/>	

The Caldwell Observer's Log - Atlas Info

(by constellation)

Taurus

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
041	N/A	Open Cluster	C-41 (Hyades)	0.5	04 27.0	+16 00	330	<input type="checkbox"/>	

Triangulum Australe

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
095	6025	Open Cluster	C-95	5.1	16 03.7	-60 30	12	<input type="checkbox"/>	

Tucana

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
104	362	Globular Cluster	C-104	6.6	01 03.2	-70 51	13	<input type="checkbox"/>	
106	104	Globular Cluster	C-106 (47 Tucanae)	4	00 24.1	-72 05	31	<input type="checkbox"/>	

Vela

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
074	3132	Planetary Nebula	C-74	9.4	10 07.7	-40 26	0.8	<input type="checkbox"/>	
079	3201	Globular Cluster	C-79	6.7	10 17.6	-46 25	18	<input type="checkbox"/>	
085	IC 2391	Open Cluster	C-85 (Omicron Velorum Cluster)	2.5	08 40.2	-53 04	50	<input type="checkbox"/>	

Virgo

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
052	4697	Galaxy	C-52	9.3	12 48.6	-05 48	6 X 3	<input type="checkbox"/>	

Vulpecula

Caldwell #	NGC#	Type	Description	Mag.	RA	Dec.	Size	Seen	Date
037	6885	Open Cluster	C-37	5.9	20 12.0	+26 29	7	<input type="checkbox"/>	

The Caldwell Observer's Log - Personal Viewing Notes

Caldwell #	Constellation	Type	Designation/Name	SA2K p.#	Notes	Seen?	Date
001	Cepheus	Open Cluster	C-1	3		<input type="checkbox"/>	
002	Cepheus	Planetary Nebula	C-2	1		<input type="checkbox"/>	
003	Draco	Galaxy	C-3	2		<input type="checkbox"/>	
004	Cepheus	Diffuse Nebula	C-4 (Refl. Nebula)	3		<input type="checkbox"/>	
005	Camelopardalis	Galaxy	C-5	1		<input type="checkbox"/>	
006	Draco	Planetary Nebula	C-6 (Cat's Eye Neb.)	3		<input type="checkbox"/>	
007	Camelopardalis	Galaxy	C-7	1		<input type="checkbox"/>	
008	Cassiopeia	Open Cluster	C-8	1		<input type="checkbox"/>	
009	Cepheus	Diffuse Nebula	C-9 (Cave Nebula)	3		<input type="checkbox"/>	
010	Cassiopeia	Open Cluster	C-10	1		<input type="checkbox"/>	
011	Cassiopeia	Diffuse Nebula	C-11 (Bubble	3		<input type="checkbox"/>	
012	Cepheus	Galaxy	C-12	3		<input type="checkbox"/>	
013	Cassiopeia	Open Cluster	C-13 (Phi Cas	1		<input type="checkbox"/>	
014	Perseus	Open Cluster	C-14 (Double	1		<input type="checkbox"/>	
015	Cygnus	Planetary Nebula	C-15 (Blinking	9		<input type="checkbox"/>	
016	Lacerta	Open Cluster	C-16	9		<input type="checkbox"/>	
017	Cassiopeia	Galaxy	C-17	9		<input type="checkbox"/>	
018	Cassiopeia	Galaxy	C-18	9		<input type="checkbox"/>	
019	Cygnus	Diffuse Nebula	C-19 (Cocoon	9		<input type="checkbox"/>	
020	Cygnus	Diffuse Nebula	C-20 (N. America	9		<input type="checkbox"/>	
021	Canes Venatici	Galaxy	C-21	7		<input type="checkbox"/>	
022	Andromeda	Planetary Nebula	C-22 (Blue Snowball)	9		<input type="checkbox"/>	
023	Andromeda	Galaxy	C-23	4		<input type="checkbox"/>	
024	Perseus	Galaxy	C-24 (Perseus A)	1		<input type="checkbox"/>	
025	Lynx	Globular Cluster	C-25 (Intergalactic	5		<input type="checkbox"/>	
026	Canes Venatici	Galaxy	C-26	7		<input type="checkbox"/>	
027	Cygnus	Diffuse Nebula	C-27 (Crescent	9		<input type="checkbox"/>	
028	Andromeda	Open Cluster	C-28	4		<input type="checkbox"/>	
029	Canes Venatici	Galaxy	C-29	7		<input type="checkbox"/>	
030	Pegasus	Galaxy	C-30	9		<input type="checkbox"/>	
031	Auriga	Diffuse Nebula	C-31 (Flaming Star	5		<input type="checkbox"/>	

The Caldwell Observer's Log - Personal Viewing Notes

Caldwell #	Constellation	Type	Designation/Name	SA2K p.#	Notes	Seen?	Date
032	Canes Venatici	Galaxy	C-32 (Whale Galaxy)	7		<input type="checkbox"/>	
033	Cygnus	Diffuse Nebula	C-33 (Network	9		<input type="checkbox"/>	
034	Cygnus	Diffuse Nebula	C-34 (Veil Nebula)	9		<input type="checkbox"/>	
035	Coma Berenices	Galaxy	C-35 (In Coma	7		<input type="checkbox"/>	
036	Coma Berenices	Galaxy	C-36	7		<input type="checkbox"/>	
037	Vulpecula	Open Cluster	C-37	9		<input type="checkbox"/>	
038	Coma Berenices	Galaxy	C-38	7		<input type="checkbox"/>	
039	Gemini	Planetary Nebula	C-39 (Eskimo	5		<input type="checkbox"/>	
040	Leo	Galaxy	C-40	6		<input type="checkbox"/>	
041	Taurus	Open Cluster	C-41 (Hyades)	5		<input type="checkbox"/>	
042	Delphinus	Globular Cluster	C-42 (Very distant)	16		<input type="checkbox"/>	
043	Pegasus	Galaxy	C-43	17		<input type="checkbox"/>	
044	Pegasus	Galaxy	C-44	17		<input type="checkbox"/>	
045	Bootes	Galaxy	C-45	14		<input type="checkbox"/>	
046	Monoceros	Diffuse Nebula	C-46 (Hubble's Var.)	12		<input type="checkbox"/>	
047	Delphinus	Globular Cluster	C-47	16		<input type="checkbox"/>	
048	Cancer	Galaxy	C-48	12		<input type="checkbox"/>	
049	Monoceros	Diffuse Nebula	C-49 (Rosette	12		<input type="checkbox"/>	
050	Monoceros	Open Cluster	C-50	12		<input type="checkbox"/>	
051	Cetus	Galaxy	C-51	10		<input type="checkbox"/>	
052	Virgo	Galaxy	C-52	14		<input type="checkbox"/>	
053	Sextans	Galaxy	C-52 (Spindle	13		<input type="checkbox"/>	
054	Monoceros	Open Cluster	C-54	12		<input type="checkbox"/>	
055	Aquarius	Planetary Nebula	C-55 (Saturn Nebula)	16		<input type="checkbox"/>	
056	Cetus	Planetary Nebula	C-56	10		<input type="checkbox"/>	
057	Sagittarius	Galaxy	C-57 (Barnard's Gal.)	22		<input type="checkbox"/>	
058	Canis Major	Open Cluster	C-58	12		<input type="checkbox"/>	
059	Hydra	Planetary Nebula	C-59 (Ghost of	13		<input type="checkbox"/>	
060	Corvus	Galaxy	C-60 (Antennae	21		<input type="checkbox"/>	
061	Corvus	Galaxy	C-61 (Antennae	21		<input type="checkbox"/>	
062	Cetus	Galaxy	C-62	18		<input type="checkbox"/>	

The Caldwell Observer's Log - Personal Viewing Notes

Caldwell #	Constellation	Type	Designation/Name	SA2K p.#	Notes	Seen?	Date
063	Aquarius	Planetary Nebula	C-63 (Helix Nebula)	23		<input type="checkbox"/>	
064	Canis Major	Open Cluster	C-64 (Mexican)	19		<input type="checkbox"/>	
065	Sculptor	Galaxy	C-65 (Sculptor)	18		<input type="checkbox"/>	
066	Hydra	Globular Cluster	C-66	21		<input type="checkbox"/>	
067	Fornax	Galaxy	C-67	18		<input type="checkbox"/>	
068	Corona Australis	Diffuse Nebula	C-68 (R CrA Nebula)	22		<input type="checkbox"/>	
069	Scorpius	Planetary Nebula	C-69 (Bug Nebula)	22		<input type="checkbox"/>	
070	Sculptor	Galaxy	C-70	18		<input type="checkbox"/>	
071	Puppis	Open Cluster	C-71	19		<input type="checkbox"/>	
072	Sculptor	Galaxy	C-72 (In Sculptor)	18		<input type="checkbox"/>	
073	Columba	Globular Cluster	C-73	19		<input type="checkbox"/>	
074	Vela	Planetary Nebula	C-74	20		<input type="checkbox"/>	
075	Scorpius	Open Cluster	C-75	22		<input type="checkbox"/>	
076	Scorpius	Open Cluster	C-76	22		<input type="checkbox"/>	
077	Centaurus	Galaxy	C-77 (Centaurus A)	21		<input type="checkbox"/>	
078	Corona Australis	Globular Cluster	C-78	22		<input type="checkbox"/>	
079	Vela	Globular Cluster	C-79	20		<input type="checkbox"/>	
080	Centaurus	Globular Cluster	C-82 (Omega)	21		<input type="checkbox"/>	
081	Ara	Globular Cluster	C-81	22		<input type="checkbox"/>	
082	Ara	Open Cluster	C-82	22		<input type="checkbox"/>	
083	Centaurus	Galaxy	C-83	21		<input type="checkbox"/>	
084	Centaurus	Globular Cluster	C-84	21		<input type="checkbox"/>	
085	Vela	Open Cluster	C-85 (Omicron)	20		<input type="checkbox"/>	
086	Ara	Globular Cluster	C-86	22		<input type="checkbox"/>	
087	Horologium	Globular Cluster	C-87	18		<input type="checkbox"/>	
088	Circinus	Open Cluster	C-88	25		<input type="checkbox"/>	
089	Norma	Open Cluster	C-89 (S Nor Cluster)	25		<input type="checkbox"/>	
090	Carina	Planetary Nebula	C-90	25		<input type="checkbox"/>	
091	Carina	Open Cluster	C-91	25		<input type="checkbox"/>	
092	Carina	Diffuse Nebula	C-92 (Keyhole)	25		<input type="checkbox"/>	
093	Pavo	Globular Cluster	C-93	25		<input type="checkbox"/>	

The Caldwell Observer's Log - Personal Viewing Notes

Caldwell #	Constellation	Type	Designation/Name	SA2K p.#	Notes	Seen?	Date
094	Crux	Open Cluster	C-94 (Jewel Box Cl.)	25		<input type="checkbox"/>	
095	Triangulum	Open Cluster	C-95	26		<input type="checkbox"/>	
096	Carina	Open Cluster	C-96	25		<input type="checkbox"/>	
097	Centaurus	Open Cluster	C-97	25		<input type="checkbox"/>	
098	Crux	Open Cluster	C-98	25		<input type="checkbox"/>	
099	Crux	Dark Nebula	C-99 (Coalsack)	25		<input type="checkbox"/>	
100	Centaurus	Open Cluster	C-100 (Lambda	25		<input type="checkbox"/>	
101	Pavo	Galaxy	C-101	25		<input type="checkbox"/>	
102	Carina	Open Cluster	C-102 (Southern	25		<input type="checkbox"/>	
103	Dorado	Diffuse Nebula	C-103 (Tarantula	24		<input type="checkbox"/>	
104	Tucana	Globular Cluster	C-104	24		<input type="checkbox"/>	
105	Musca	Globular Cluster	C-105	25		<input type="checkbox"/>	
106	Tucana	Globular Cluster	C-106 (47 Tucanae)	24		<input type="checkbox"/>	
107	Apus	Globular Cluster	C-107	26		<input type="checkbox"/>	
108	Musca	Globular Cluster	C-108	25		<input type="checkbox"/>	
109	Chamaeleon	Planetary Nebula	C-109	25		<input type="checkbox"/>	

The Caldwell Observer's Log

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R0.1b

General Help

The Caldwell Observer's Log (TCOL) contains everything you need to find and view the Caldwell objects through your telescope. You can track your viewing notes, sort on several different fields, and print field notes for star parties. The log is set up as a series of screens in which you can view and enter information. There are screens to help you organize your viewing sessions, to keep track of what you've seen, and to enter sketches or photos of objects. TCOL is especially helpful if you print out the Main Screen (110 pages) and keep it in a notebook, replacing (or adding) pages as you find objects. If you want to keep track of other types of objects, get my other software, The Simple Observing Log, The Ultimate Messier Object Log, or The Simple Observing Log.

The buttons and screens accessible from the main screen are explained below. Click on a button to exit this screen.

Enter Notes

The "Main Screen"

Enter viewing notes and view the info for each object.

Start here! I suggest printing these pages out and keeping them in a 1" binder as your primary observing guide. The Night Vision Mode button gives your screen a deep red background. It isn't true "Night Vision," but it is better than nothing if you are trying to use a laptop in the field. (Hint: Set your desktop to a dark background too.)

Atlas, Sort by Messier

List star atlas info for **all** objects, sorted by Caldwell #. This is sort of a quick reference for all the object. It's useful for experienced observers who want to be able to quickly check off observations in the field

Notes - Sort by Caldwell

List viewing notes for **all** objects, sorted by Caldwell #. This is similar to the "Atlas, Sort by Caldwell" above, but shows your comments instead of the Atlas notes.

Sort by Season

List all objects, sorted by the season they're best viewed. Note that the season only displays in Preview mode, or when printed.

Notes - Sort by Constellation

List all objects, sorted by the nearest constellation. Note the constellation name only displays in Preview mode, or when printed.

Note Views

The views at right are different reports for the Notes view. They are useful after you've had a few observing sessions and want a quick way to look up what you've seen or haven't seen. These buttons don't do anything in the PDF version.

Notes - Seen, Sort by

List viewing notes for objects you've marked as seen only, sorted by Caldwell #. This is useful if you want a record of everything you've seen, say, after a viewing session.

Notes - Sort by Seen/Unseen

List viewing notes for **all** objects by constellation, with unseen objects first. Useful after you've seen many objects, and want a field record with stuff you haven't seen up front.

Notes - Unseen, Sort by

List viewing notes for objects marked as unseen, sorted by Caldwell #. This is useful to print out before a viewing session, to help plan for the night.

Notes - Unseen by Constell.

List viewing notes for objects not marked as seen, sorted by constellation. Note the constellation name only displays in Preview mode, or when printed.

NOTE: If you are unfamiliar with Filemaker, note that some of these buttons put you into Preview mode, after which, none of the buttons will work. To return to normal, select Browse from the Mode menu.

Green fields are standard information in the database

Blue fields are those you enter yourself.

Caldwell#

The Caldwell catalog number.

Name/Designation

The Caldwell number and common name of the object. Not all objects have names.

Seen? [Click here when you've seen an object and enter the date.](#)

Type The object type: i.e., globular cluster, nebula, galaxy, open cluster, etc.

NGC # The National General Catalog number

Magnitude Object brightness

Hemisphere North, South or both

Constellation The constellation in which the object appears, or nearest constellation.

Season Best season to view

RA Right Ascension

Dec Declination

Size Size

Sky Atlas 2000 page

Chart number from Sky Atlas 2000

Other Chart Page(s) (Enter page # from your favorite chart here.)

Description Sir Patrick Caldwell Moore's description of the object

A star chart for the current object is displayed in this space. The target circle in the center represents the view through a Telrad finder.

Observing Notes

Viewing Time Comments

I use this before viewing to enter the optimum time to view an object

Observing Site

Where you are observing from.

Equipment

Which scope or binoculars you are using.

Sky : Seeing Comments

These notes pertain to the object. Enter anything you want to regarding appearance, etc.

Transparency

- 1 Perfectly Stable
- 2 Mostly Stable
- 3 Somewhat Stable
- 4 Unstable
- 5 Very Unstable
- 6 Poor
- 7 Very Poor

