Cheat Sheets
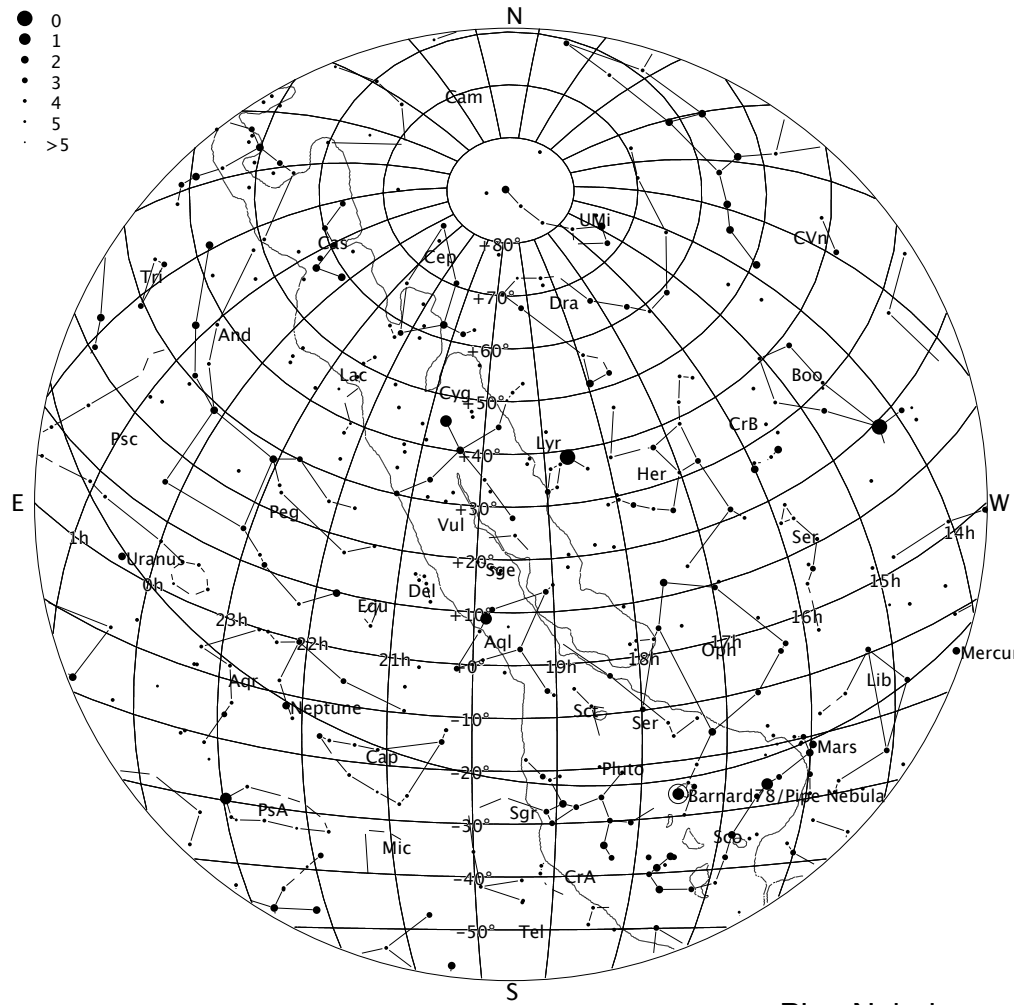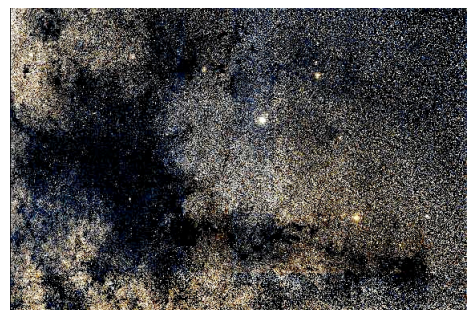
for the

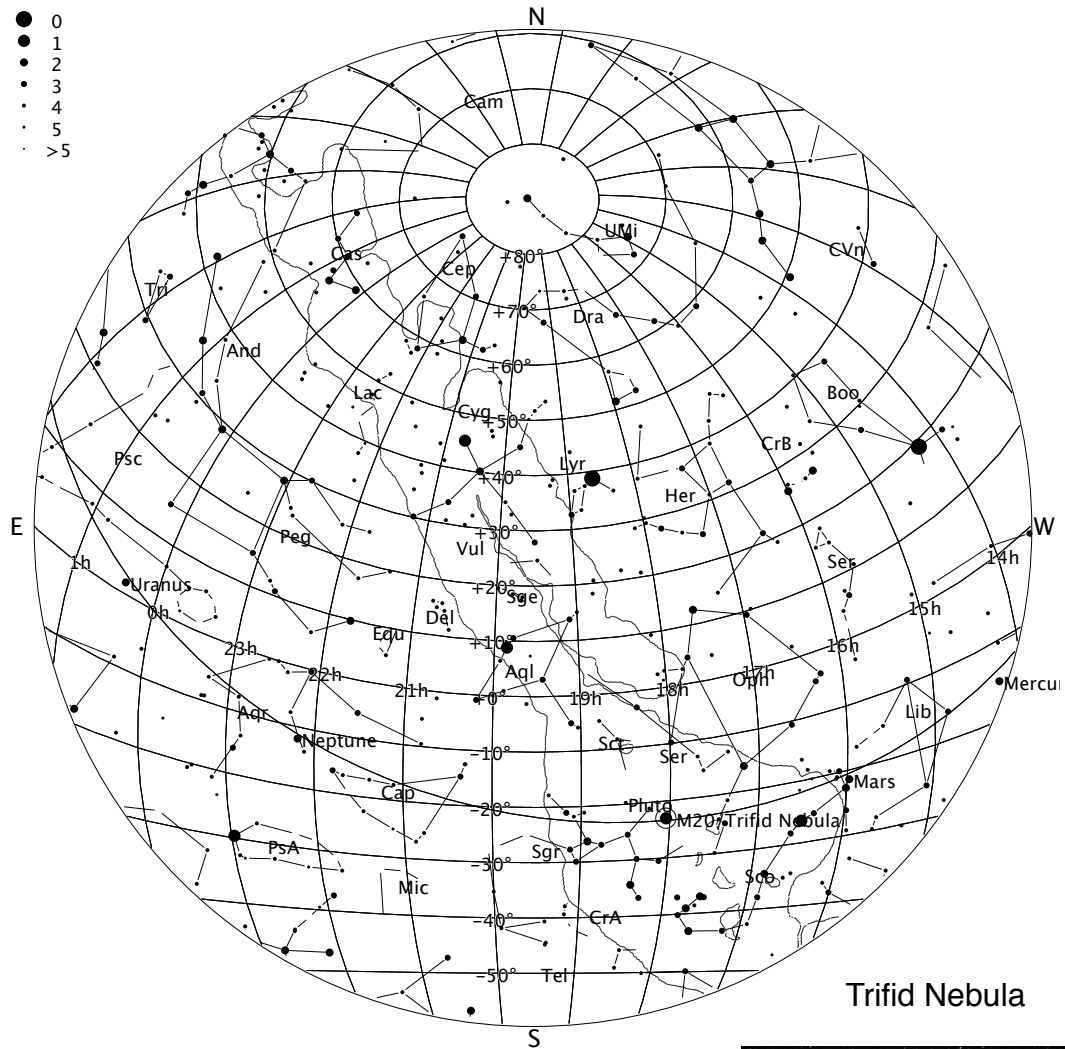# Binocular Nebulae

ESP 2012

Barnard 78
Pipe Nebula in Ophiucus

Pipe Nebula

Size 200'x140'

10/9/12   8:00 PM

M20 (NGC 6514)
Trifid Nebula in Sagittarius

N

0
1
2
3
4
5
> 5

Cam
UMi
Cas
Cep
+80°
CVn
Tri
+70°
Dra
And
+60°
Lac
Boo
Cyg
+50°
CrB
Psc
+40°
Lyr
Her
E
Peg
+30°
Vul
Ser
W
1h
+20°
Sge
14h
Uranus
Del
15h
0h
Equ
+10°
16h
23h
Aql
22h
21h
0°
19h
18h
Oph
Mercu
Aqr
17h
Neptune
Ser
Lib
−10°
Sct
Cap
Pluto
Mars
−20°
M20 Trifid Nebula
PsA
Sgr
Sco
−30°
Mic
CrA
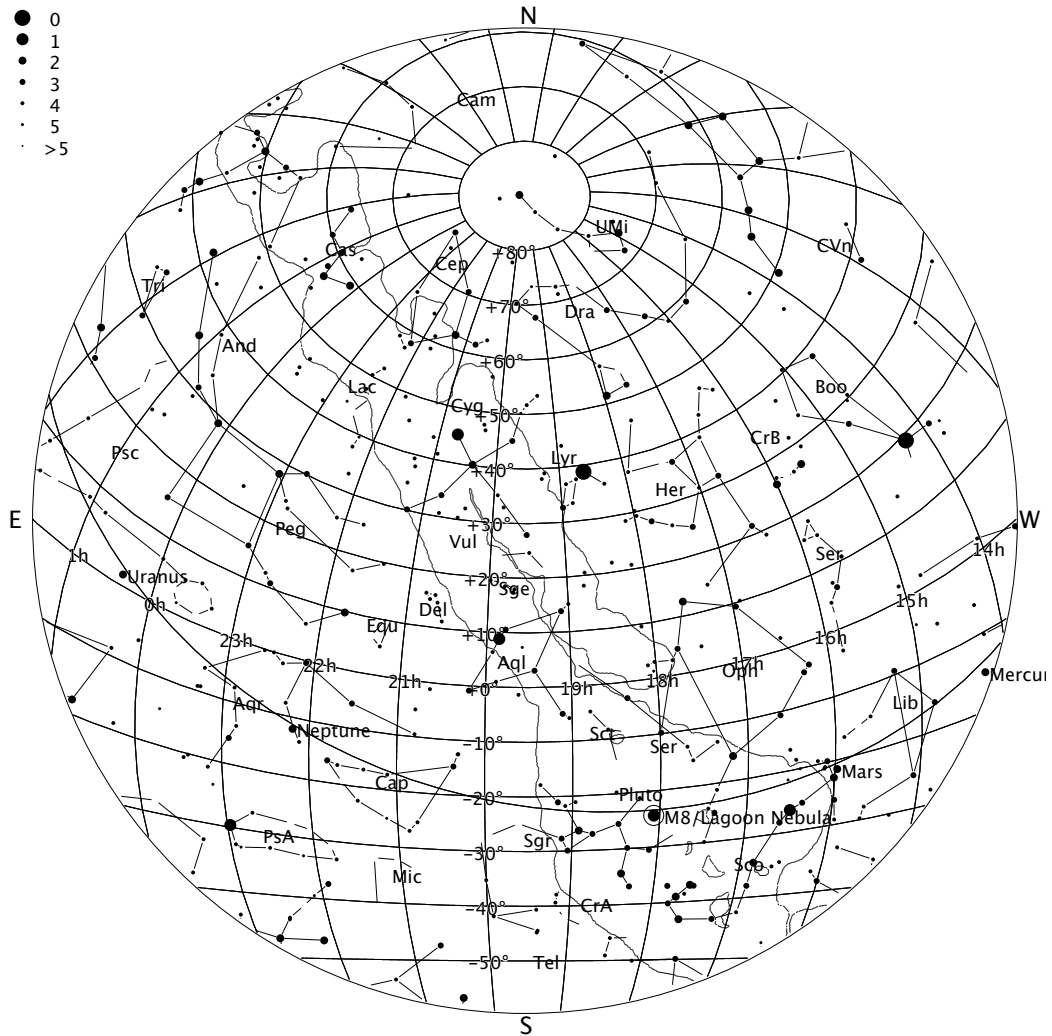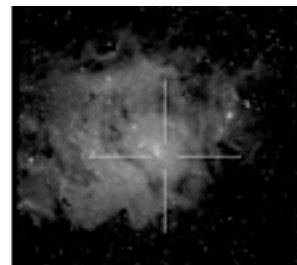−40°
−50°
Tel
S

Trifid Nebula

Size 29'

10/9/12   8:00 PM

3
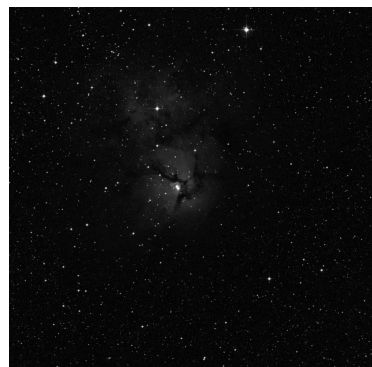
M8 (NGC6523)
Lagoon Nebula in Sagittarius

Lagoon Nebula

Size 90'

10/9/12   8:00 PM

M16 (NGC 6611
Eagle Nebula in Serpens

N

●	0
●	1
●	2
·	3
·	4
·	5
·	> 5

Cam

UMi

+80°

CVn

Cas

Cep

Dra

+70°

Tri

+60°

And

Boo

Lac

Cyg

50°

+40°

CrB

Psc

Lyr

Her

Ser

W

Peg

+30°

14h

Vul

E

Ser

1h

+20°

Sge

15h

0h

Uranus

Del

Sgr

16h

Equ

+10°

Aql

17h

23h

Oph

18h

22h

21h

+0°

19h

Mercu

Aqr

Sct

Lib

Neptune

-10°

Ser

Mars

Cap

M16/Eagle Nebula

Pluto

-20°

Sco

Sgr

PsA

-30°

Mic

CrA

-40°

-50°

Tel
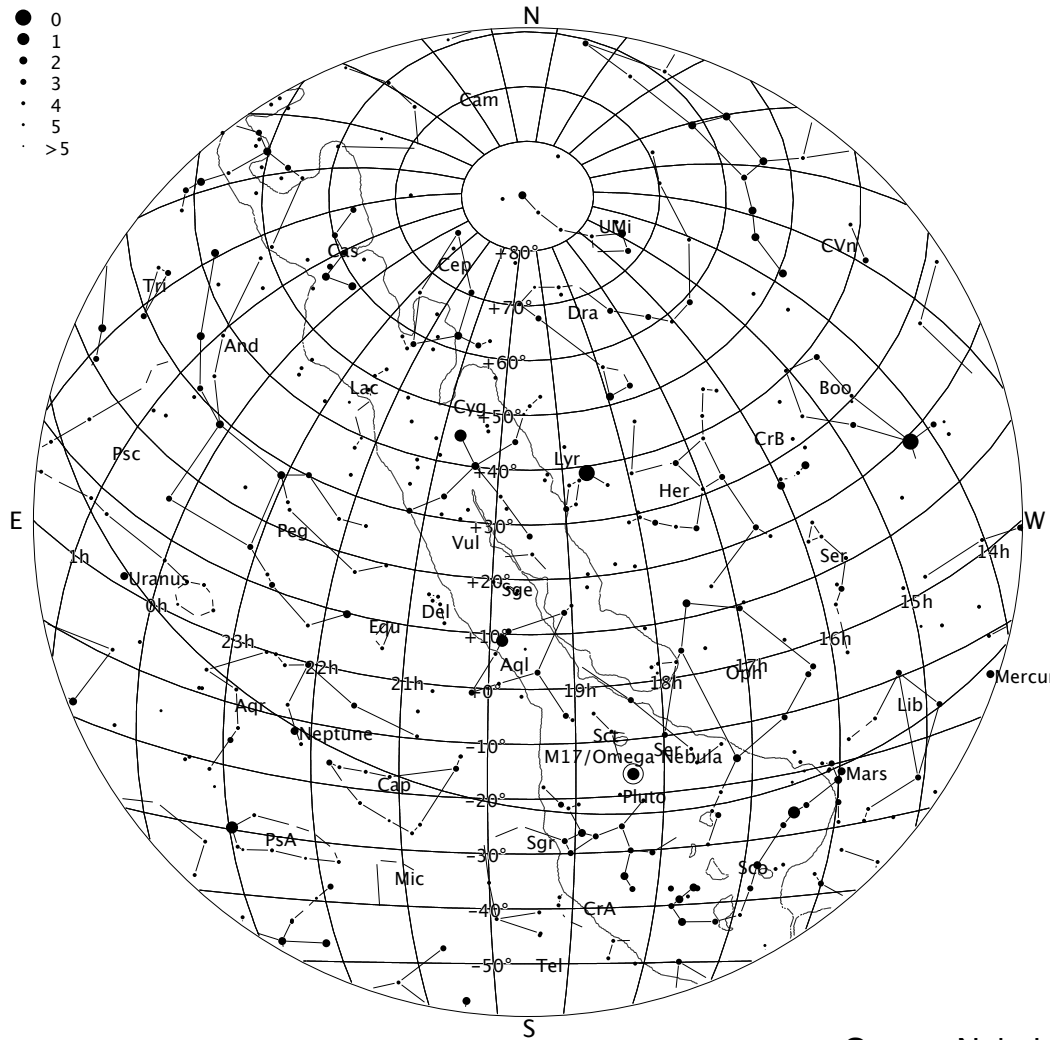
S
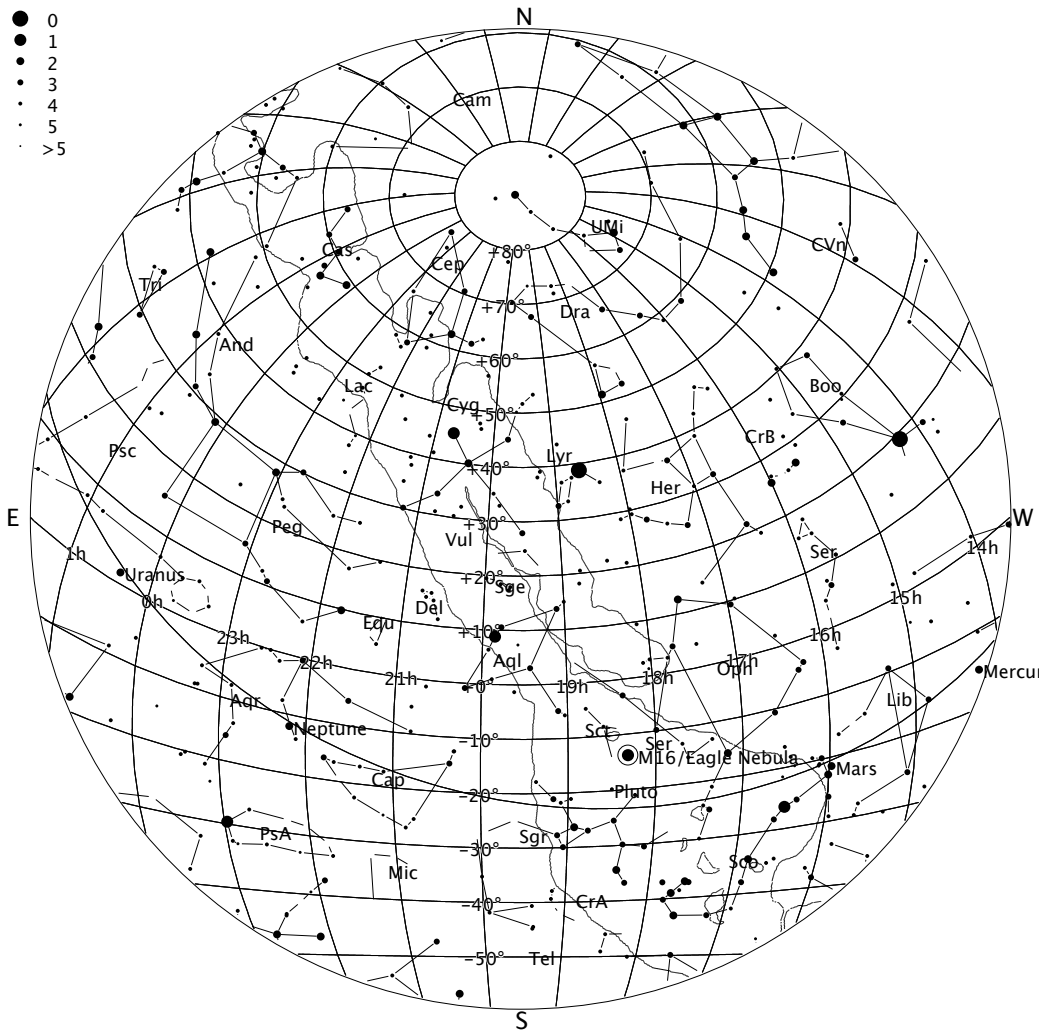
Eagle Nebula

Size 35'
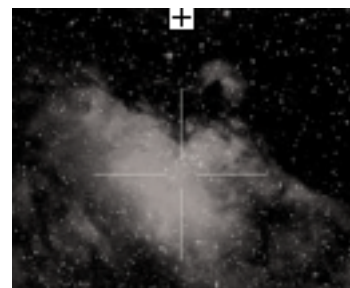
10/9/12 8:00 PM

M17 (NGC 6618)
Omega Nebula in Sagittarius

Omega Nebula

Size 11'
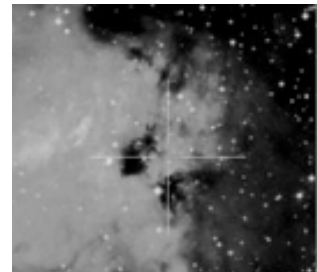
10/9/12   8:00 PM

M27 (NGC 6853)
Dumbbell Nebula in Vulpecula

N

0
1
2
3
4
5
> 5

Cam

Cas

UMi

CVn

Tri

Cep

And

Dra

Lac

Boo

Cyg

+80°
+70°
+60°
+50°
+40°
+30°
+20°
+10°
+0°
−10°
−20°
−30°
−40°
−50°

Lyr

CrB

Psc

Her

E

Peg

Vul

W

1h

Uranus

M27 Dumbbell Nebula

Ser

14h

0h

Sge

15h

Equ

Del

Aql

16h

23h

22h

21h

19h

18h

Oph

17h

Aqr

Lib

Mercur

Neptune

Sct

Ser

Cap

Pluto

Mars

PsA

Sgr

Mic

Sco

CrA

Tel

S
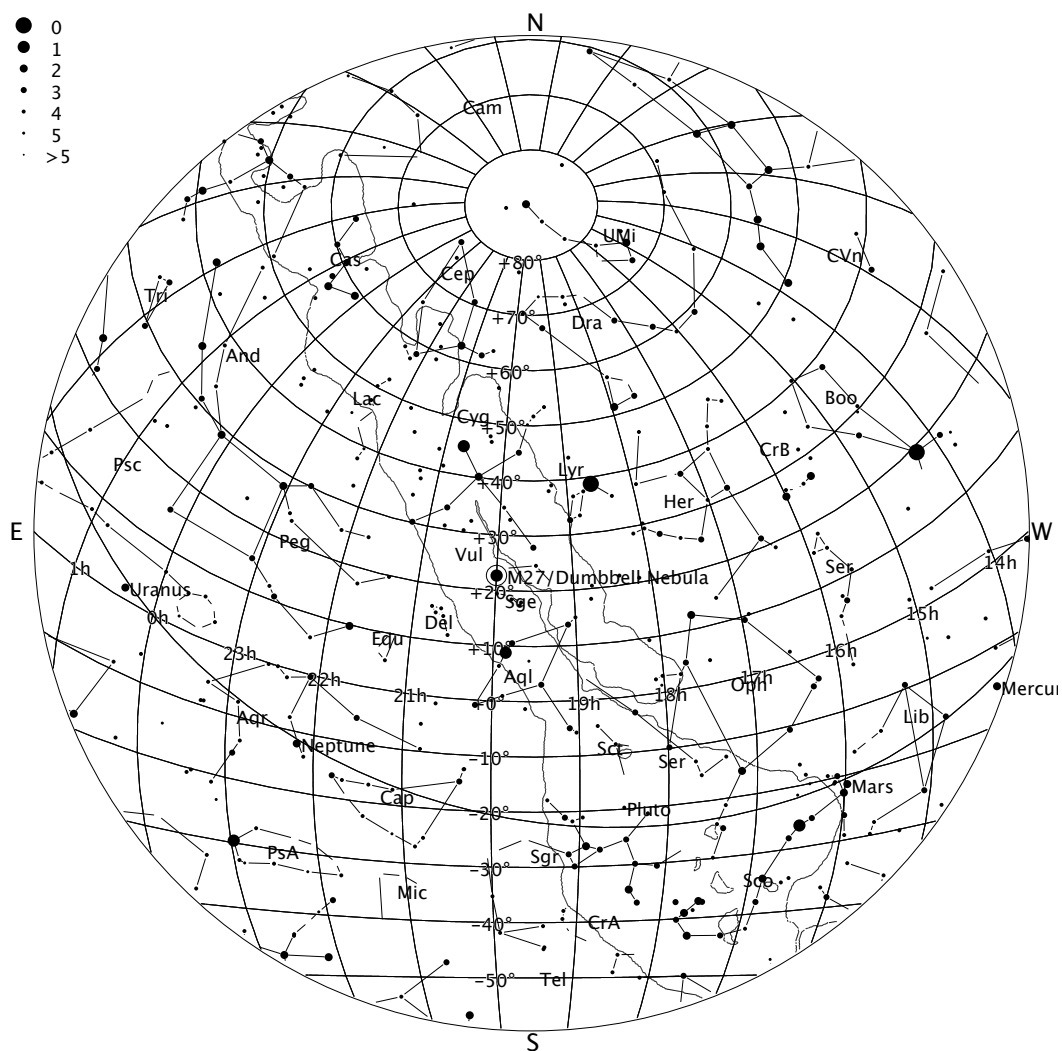
Dumbbell Nebula

Size 8'
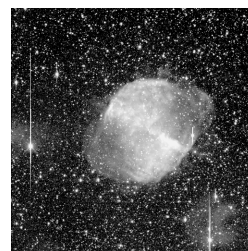
10/9/12 8:00 PM

Barnard 145
Dark Nebula in Cygnus

N

- 0
- 1
- 2
- 3
- 4
- 5
- >5

Cam
UMi
CVn
Cas
Cep
+80°
+70°
Dra
Boo
Tri
+60°
And
Lac
CrB
Cyg +50°
Psc
Lyr
+40°
Barnard 145 / B145
Her
Ser
+30°
Peg
Vul
W
14h
E
1h
+20°
Sge
15h
Uranus
Del
Equ
+10°
16h
0h
23h
22h
21h
Aql
18h
Oph
19h
-0°
17h
Aqr
Mercu
Neptune
Sct
Ser
Lib
-10°
Cap
Mars
Pluto
-20°
Sgr
PsA
Sco
Mic
-30°
CrA
-40°
Tel
-50°

S
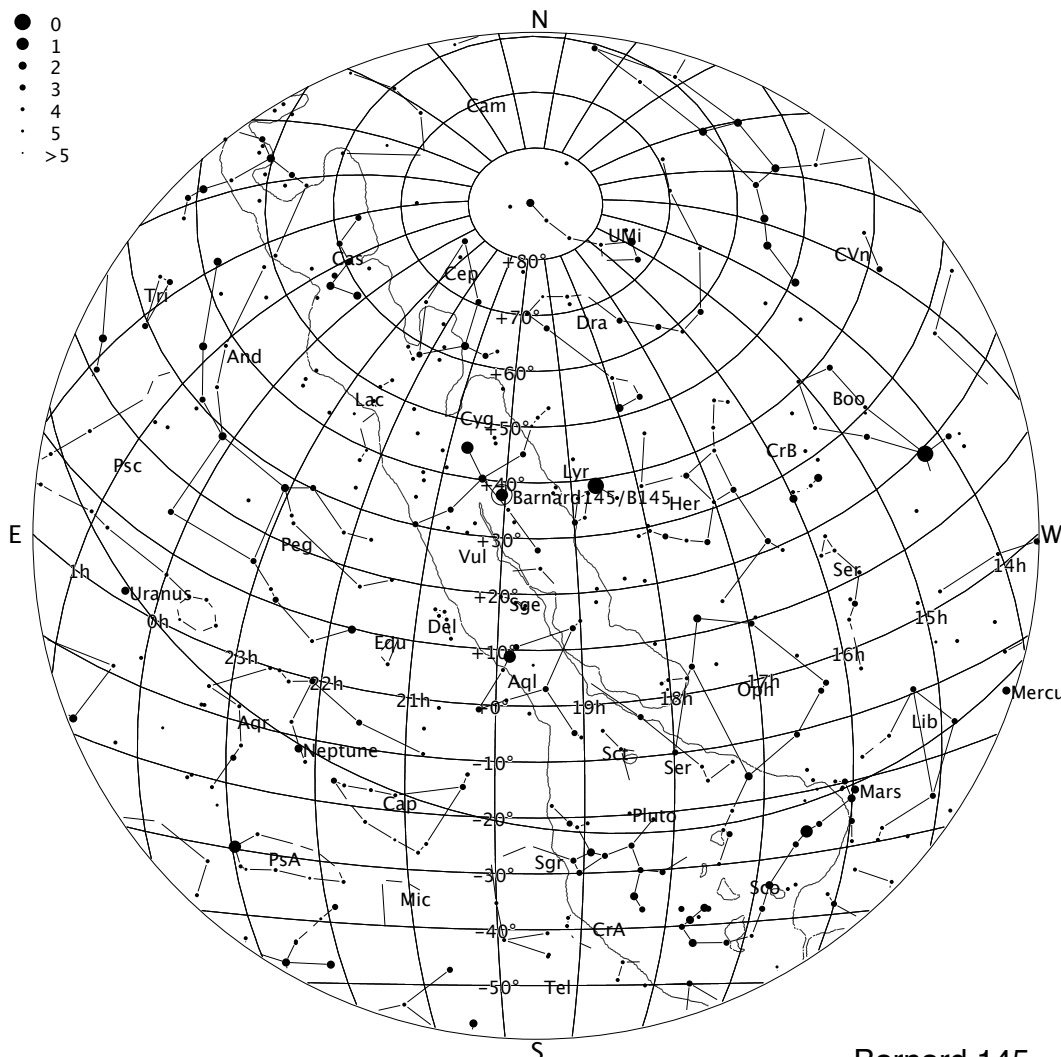
Barnard 145

Size 200'x140'

10/9/12   8:00 PM

NGC 6960
West Veil Nebula in Cygnus

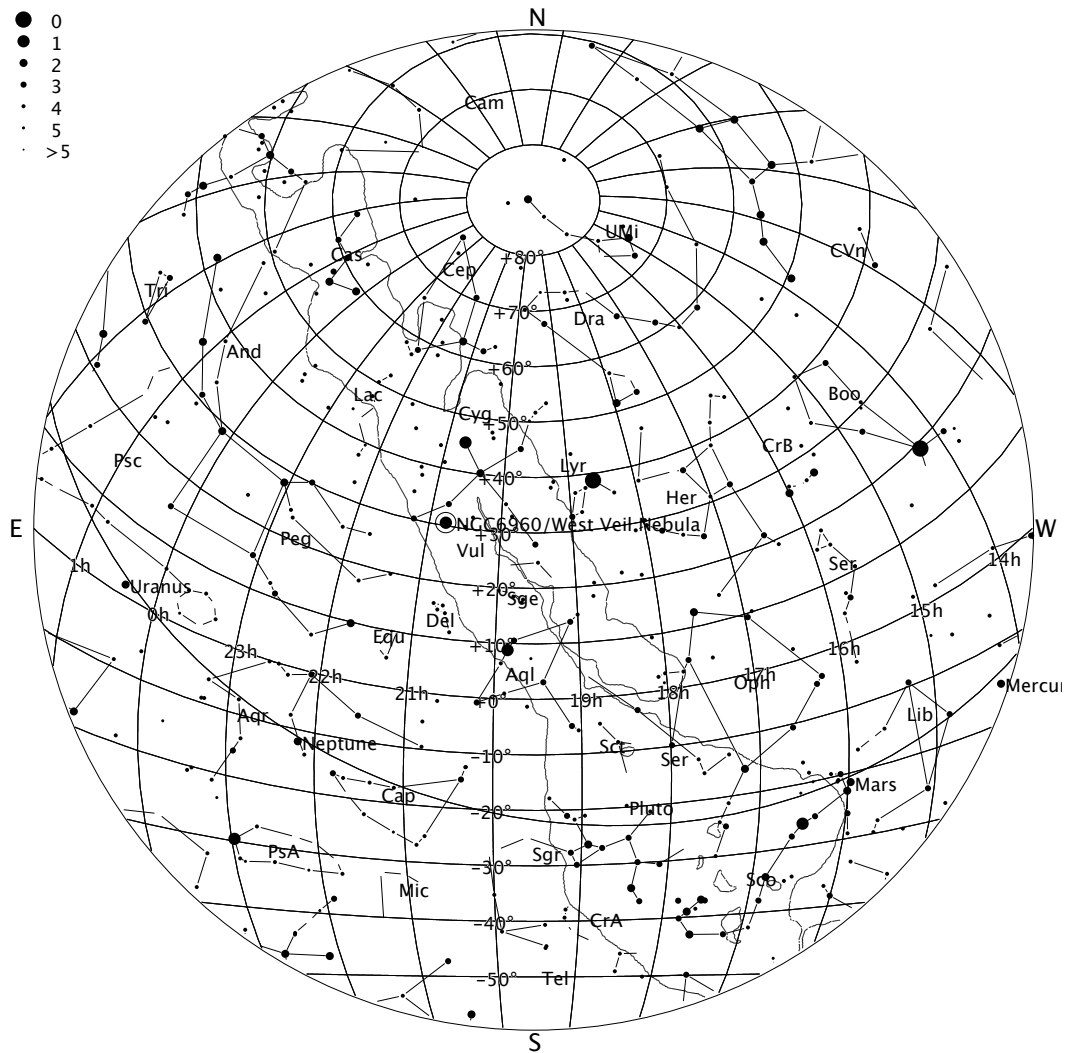West Veil Nebula

Size 70'

10/9/12   8:00 PM

IC 5070
Pelican Nebula in Cygnus

Legend:
- 0
- 1
- 2
- 3
- 4
- 5
- > 5

N

Cam

UMi

CVn

Cas

Cep

+80°

Tri

+70°

Dra

And

+60°

Boo

Lac

Cyg +50°

IC5067/Pelican Nebula

Psc

CrB

Lyr

+40°

Her

E

Peg

+30°

W

Vul

Ser

14h

1h

+20°

15h

Uranus

Sge

0h

Del

+10°

16h

Equ

Aql

17h

Oph

23h

22h

21h

+0°

19h

18h

Mercu

Aqr

Sct

Ser

Lib

Neptune

−10°

Cap

Pluto

Mars

−20°

PsA

Sgr

−30°

Sco

Mic

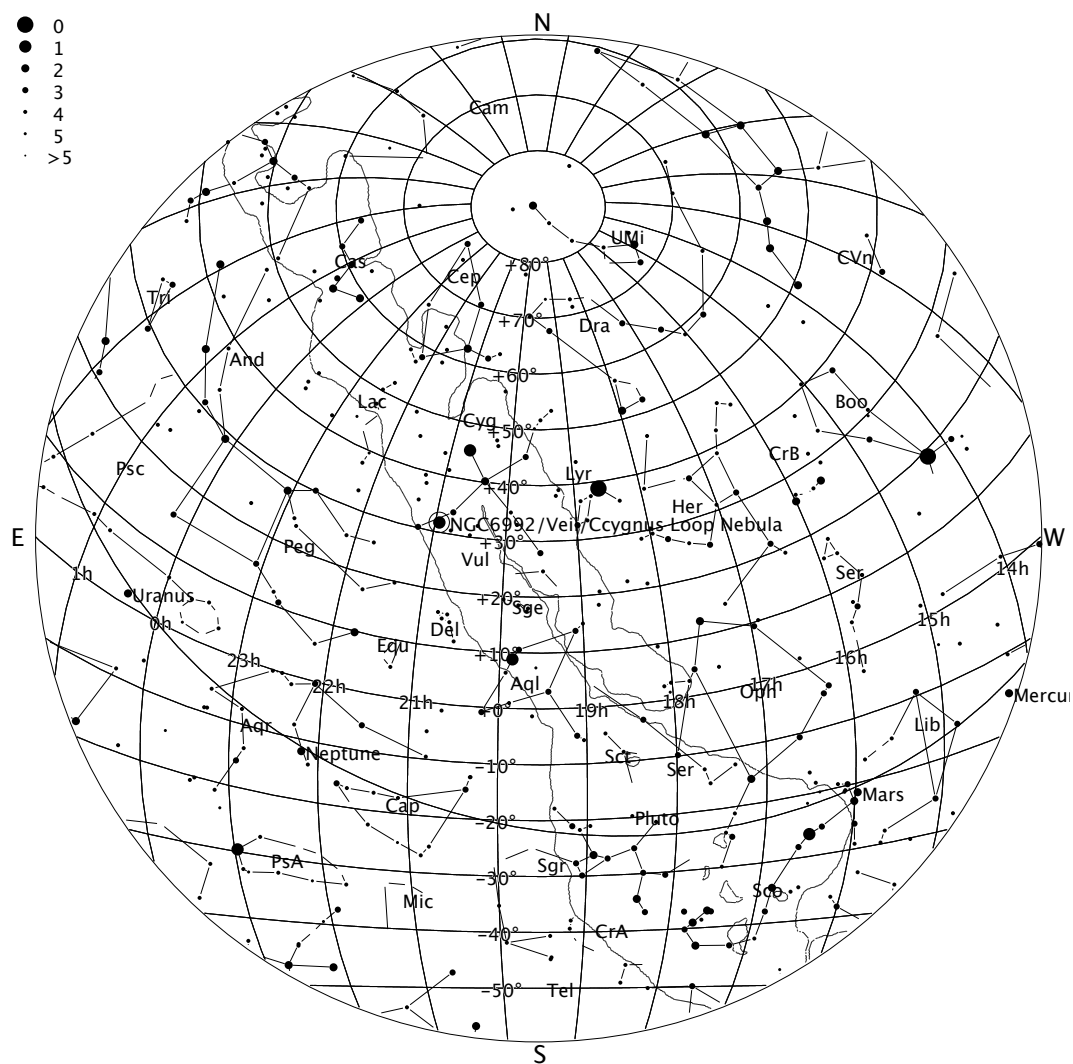CrA

−40°

Tel

−50°

S
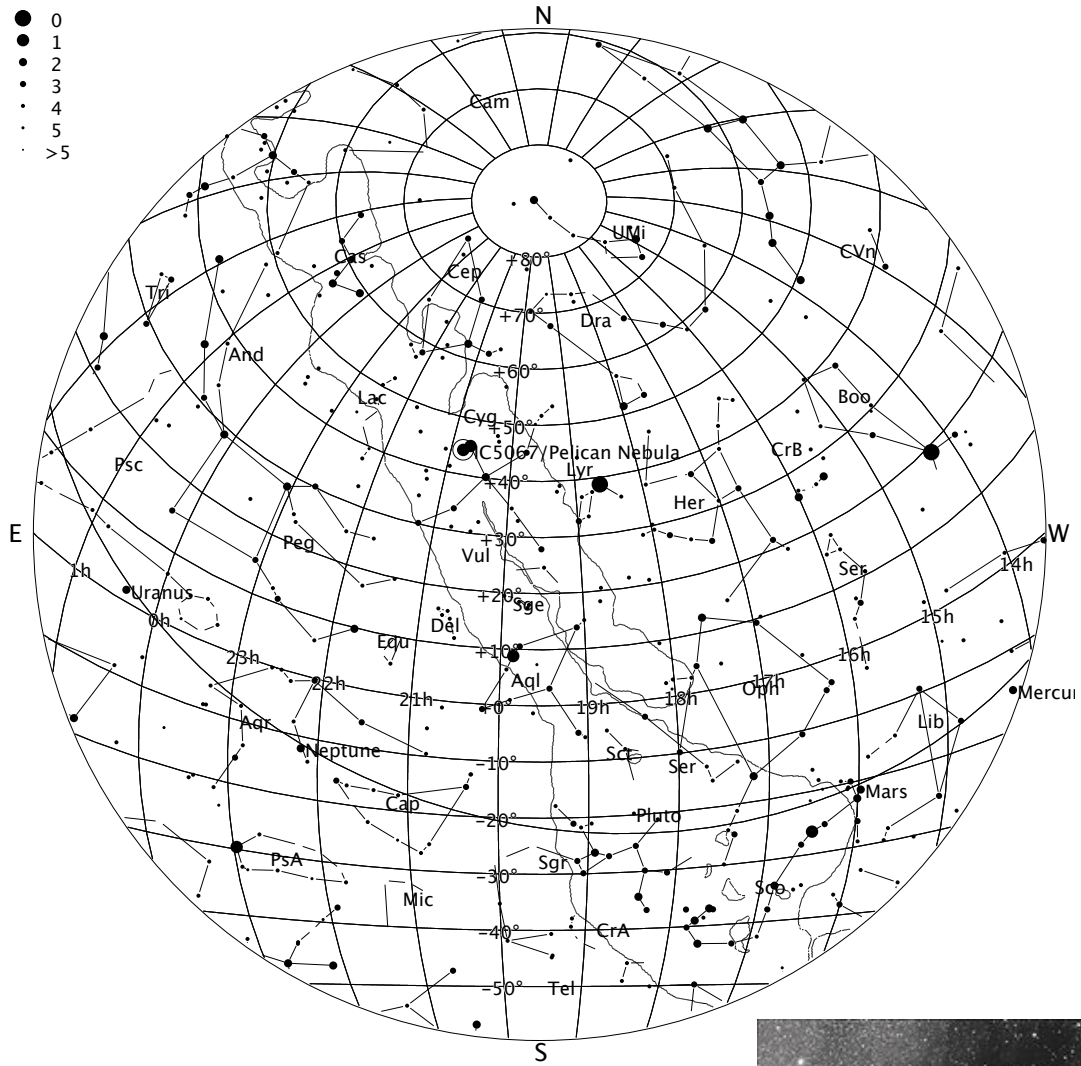
Size 60x50'

10/9/12   8:00 PM

NGC 6992
East Veil Nebula in Cygnus
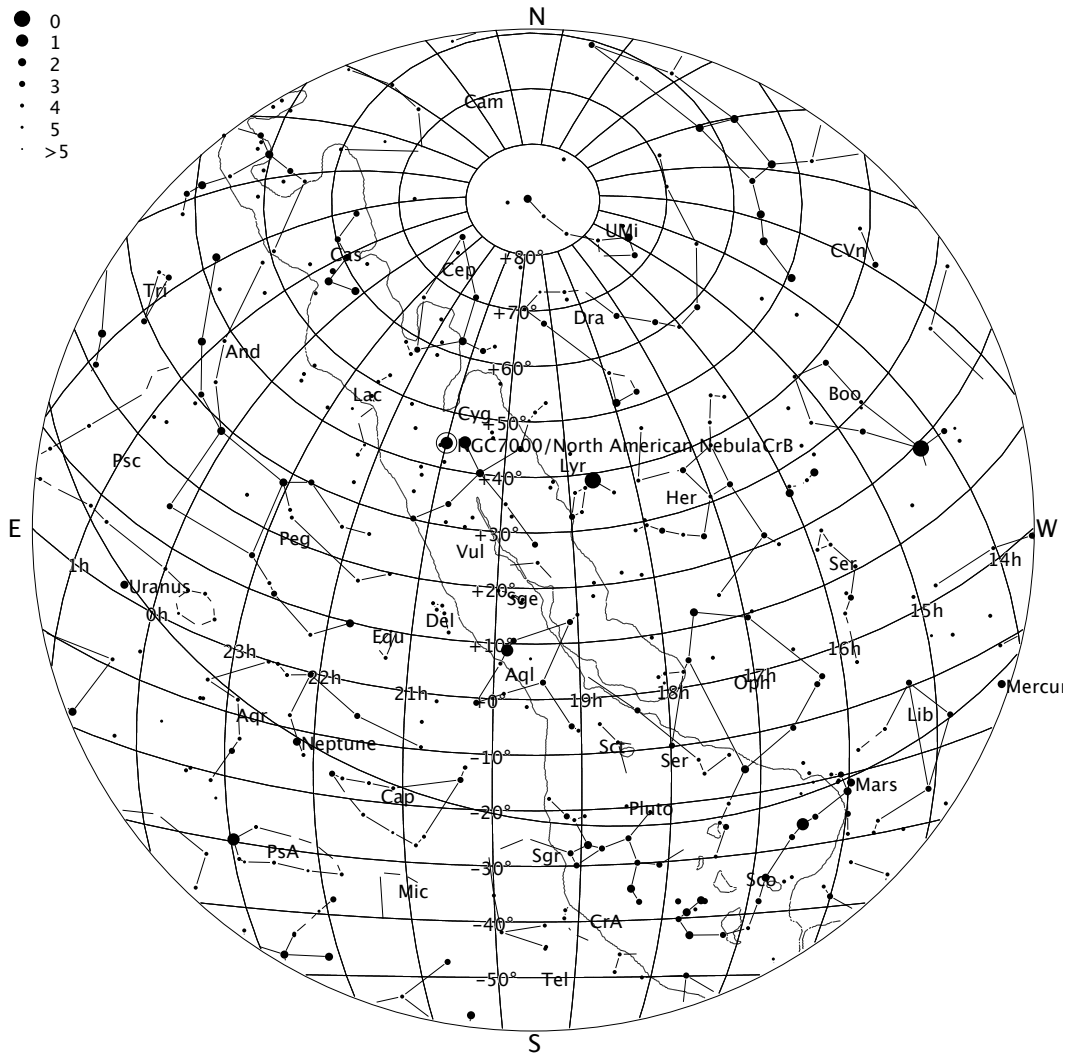

East Veil Nebula

Size 60'

10/9/12   8:00 PM

NGC 7000
North America Nebula in Cygnus

North America Nebula

Size 120'

10/9/12   8:00 PM

NGC 7009
Saturn Nebula in Aquarius

Magnitude legend:
- 0
- 1
- 2
- 3
- 4
- 5
- > 5

N

Cam

UMi

Cas

Cep

+80°

+70°

Dra

CVn

Tri

+60°

And

Lac

Boo

Cyg

+50°

Psc

+40°

Lyr

CrB

Her

Peg

+30°

Vul

Ser

W

E

1h

+20°

Sge

14h

Uranus

Del

15h

0h

Equ

+10°

16h

23h

Aql

22h

21h

+0°

19h

18h

Oph

Mercu

Aqr

Ser

Lib

Neptune

NGC7009 Saturn Nebula

Sgr

Cap

-10°

Pluto

Mars

PsA

-20°

Sgr

Sco

Mic

-30°

CrA

-40°

Tel

-50°

S
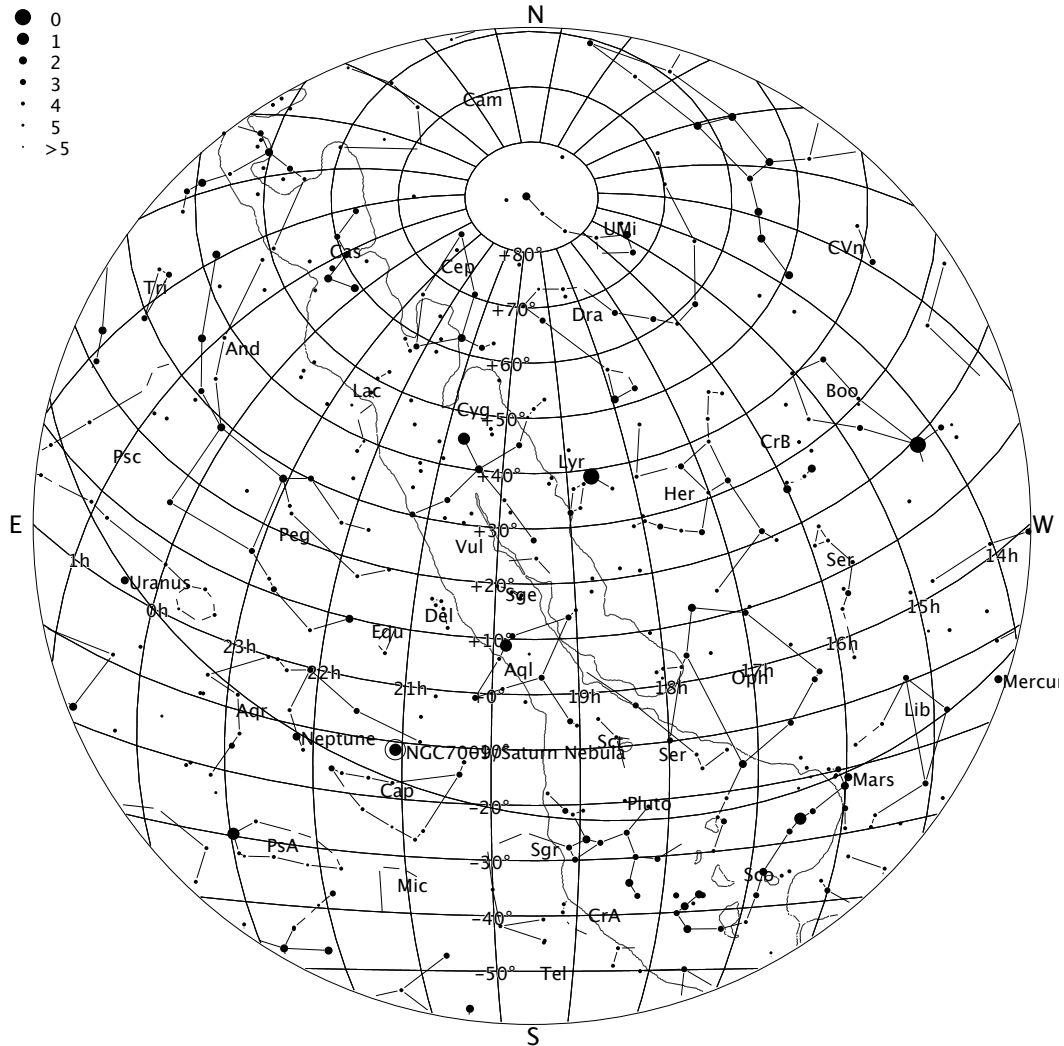
Saturn Nebula

Size 2'

10/9/12   8:00 PM

13

IC 1396
Elephant Trunk Nebula in Cepheus

N

0
1
2
3
4
5
> 5

Cam

UMi

CVn

Cas

Cep

+80°

Tri

+70°

Dra

And

IC 1396 Elephant Trunk Nebula

Lac

Boo

Cyg

+50°

CrB

Psc

Lyr

+40°

Her

E

+30°

W

Peg

Vul

Ser

Uranus

+20°

14h

1h

Sge

0h

Del

15h

Equ

+10°

Oph

23h

Aql

16h

22h

21h

+0°

17h

18h

Mercur

19h

Lib

Aqr

Ser

Neptune

−10°

Sct

Mars

Cap

Pluto

−20°

Sgr

Sco

PsA

−30°

Mic

−40°

CrA

−50°

Tel

S
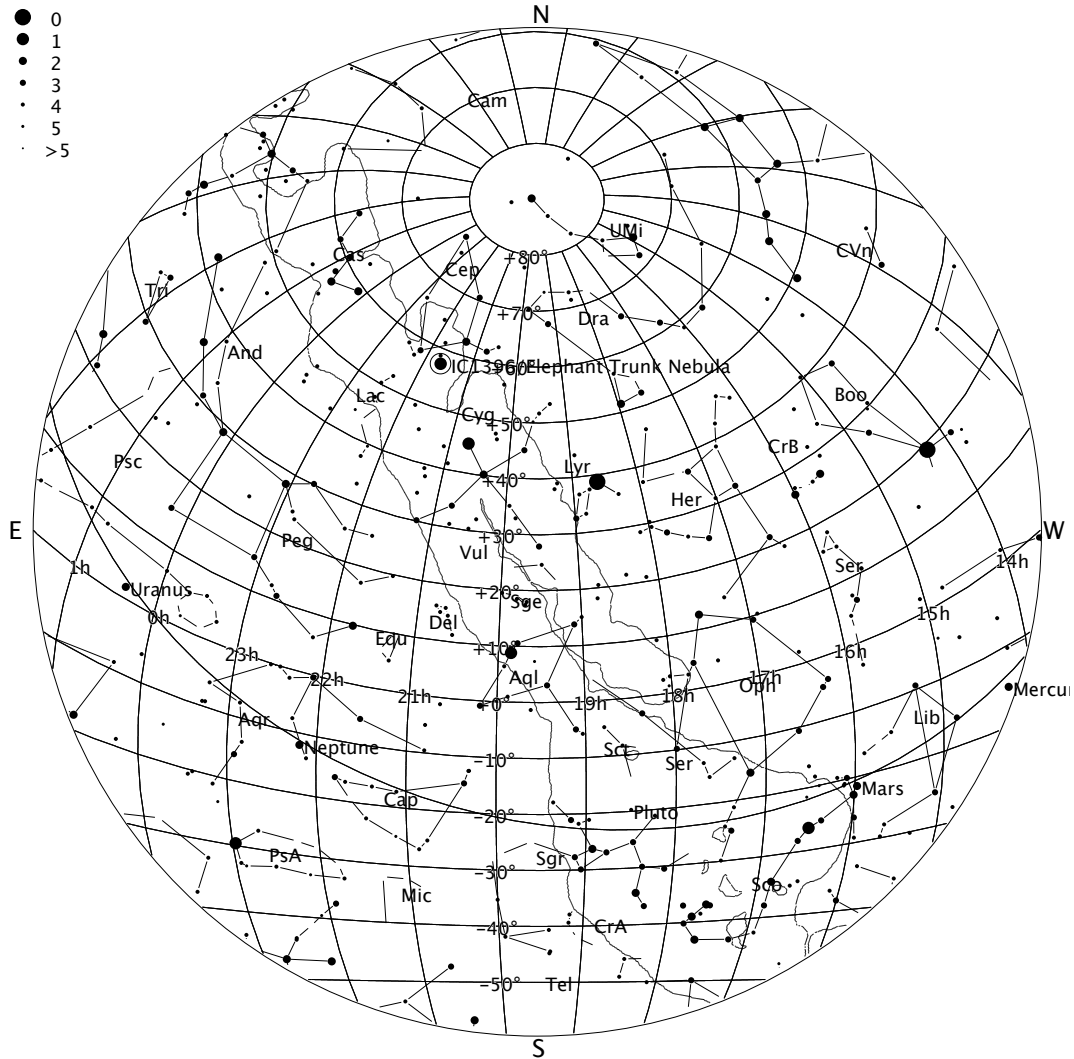
Elephant Trunk Nebula

Size 170'

10/9/12   8:00 PM

14
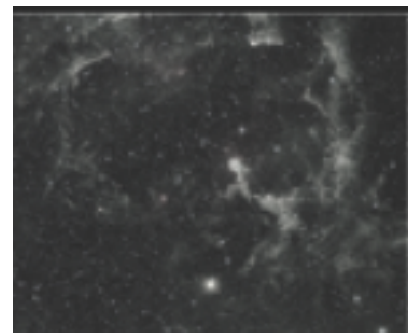
Barnard 168
Dark Nebula in Cygnus
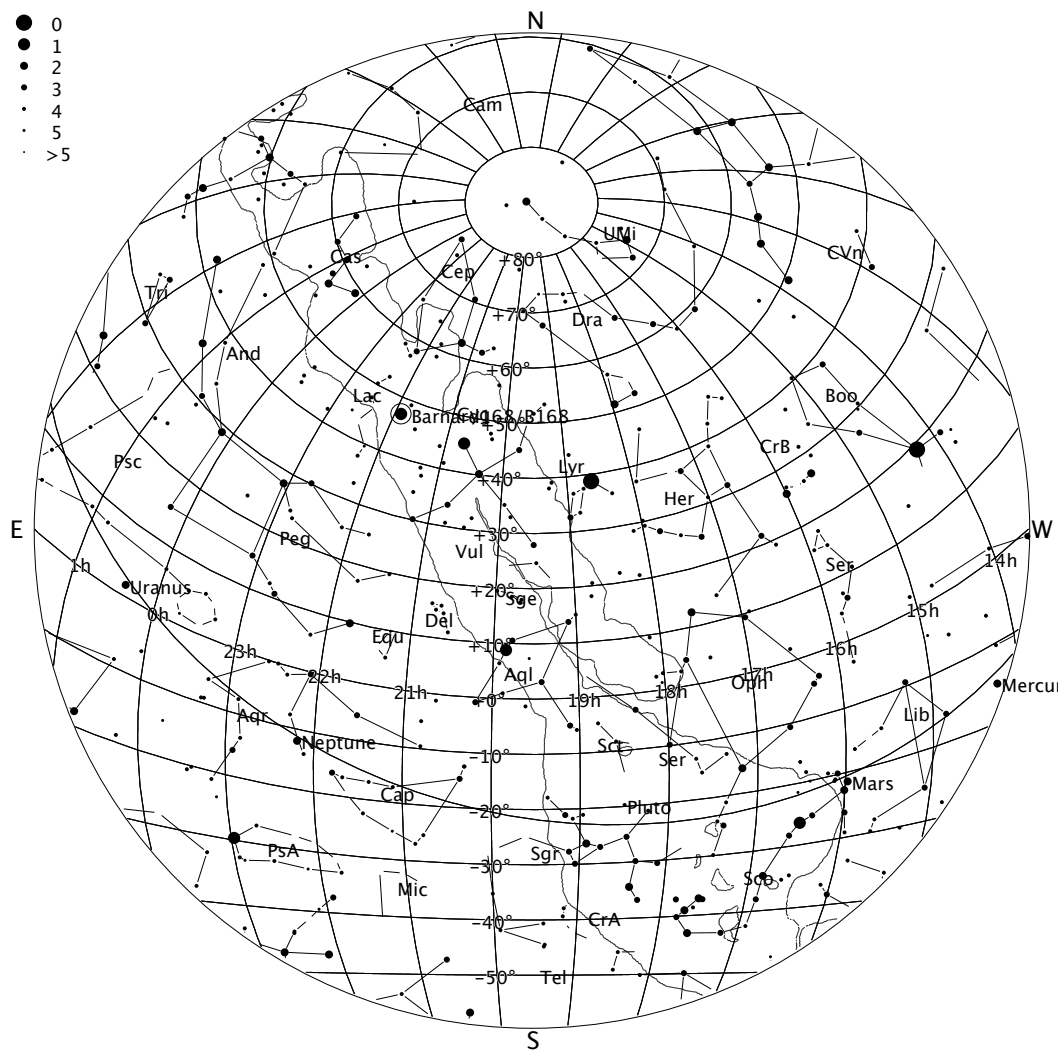
Barnard 168

Size 10'
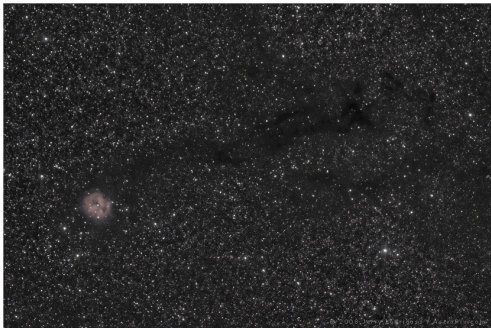
10/9/12   8:00 PM

NGC 7293
Helix Nebula in Aquarius

N

0
1
2
3
4
5
> 5

Cam
UMi
CVn
Cas
Cep
+80°
+70°
Dra
Tri
Boo
And
+60°
Lac
+50°
Cyg
CrB
Psc
+40°
Lyr
Her
E
Peg
+30°
W
Vul
Ser
14h
1h
+20°
Sge
15h
Uranus
0h
Del
Equ
+10°
16h
23h
Aql
Oph
17h
22h
21h
0°
18h
Aqr
19h
Mercur
Neptune
Sct
Lib
-10°
Ser
NGC 7293/Helix Nebula
Mars
Pluto
-20°
PsA
Sgr
-30°
Sco
Mic
CrA
-40°
-50°
Tel
S
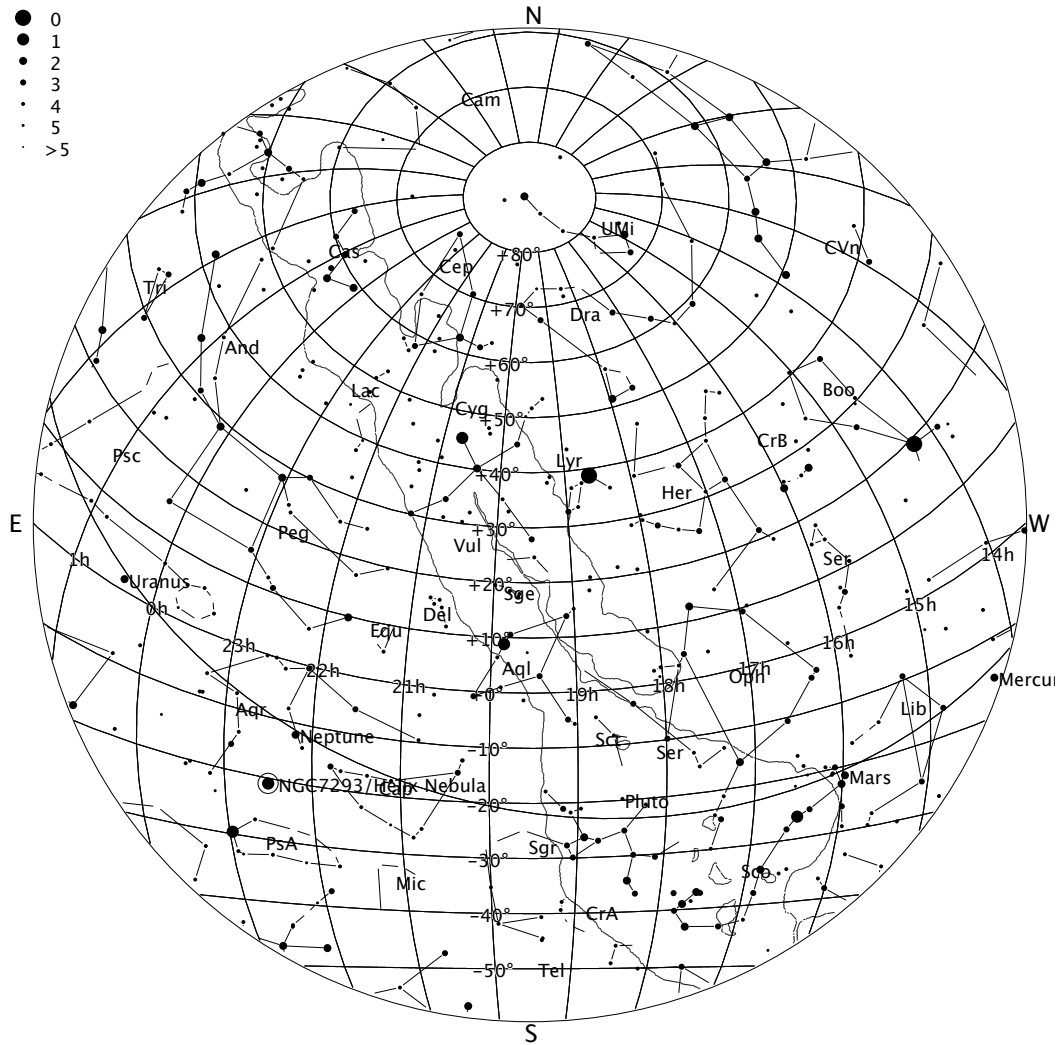
Helix Nebula

Size 13'

10/9/12   8:00 PM

NGC 246
Skull Nebula in Cetus

N

●	0
●	1
●	2
•	3
•	4
·	5
·	>5

Aur
Cam
UMi
Dra
CrB
+80°
Cep
+70°
Per
Cas
Her
+60°
Jupiter
Cyg
Lyr
+50°
Tau
Lac
Tri
And
+40°
Ari
Cyg
+30°
Vul
W
E
Psc
Sge
+20° Peg
4h
17h
+10°
Del
Equ
Aql
18h
3h
19h
2h
20h
1h Uranus
0h
22h 21h
Sgr Ser
+0°
Cet
NGC246/Skull Nebula Aqr
Neptune
Pluto
For
Cap
−20°
Sgr
Scl
−30° PsA
Mic
−40°
Phe
Gru
−50°

S
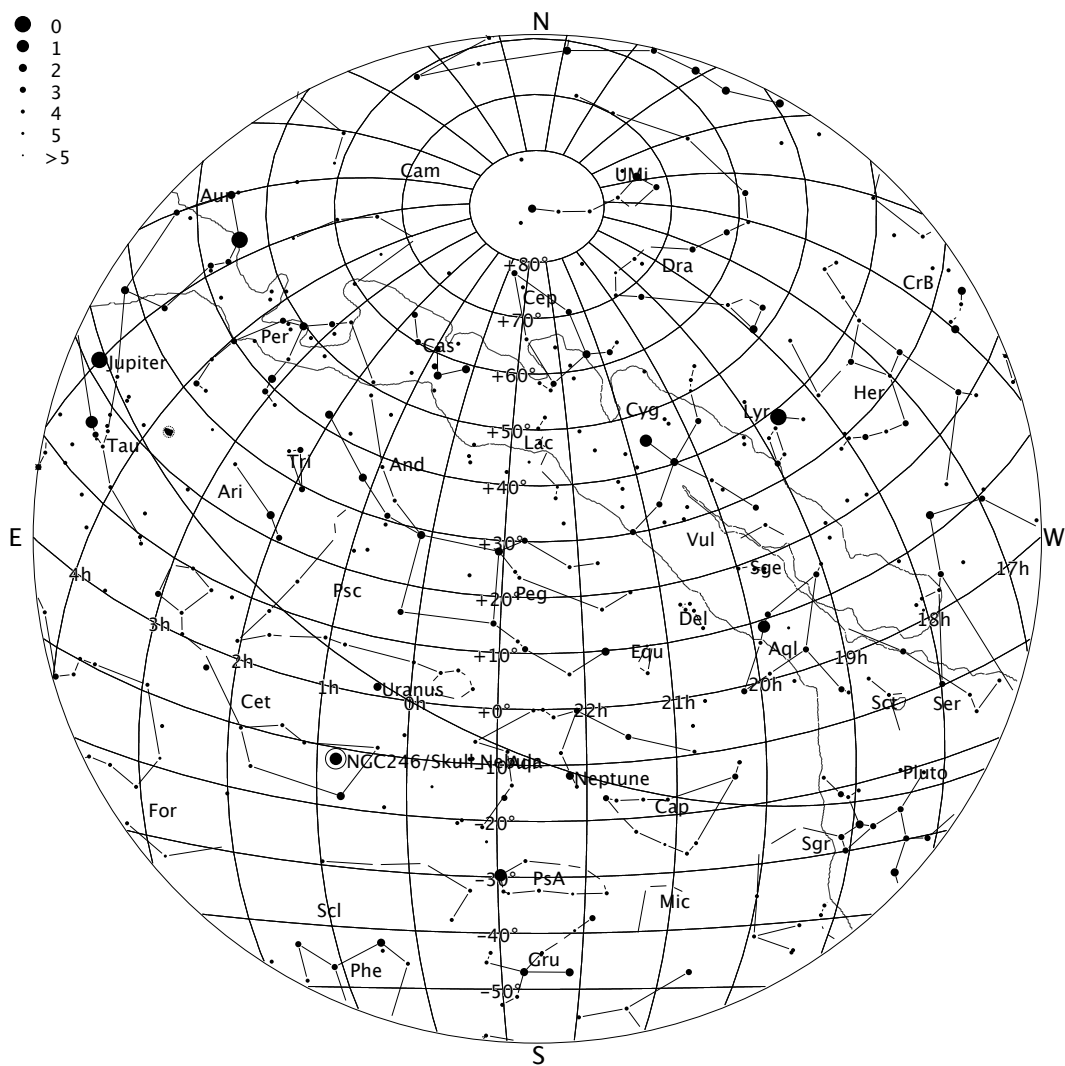
Skull Nebula

Size 8'
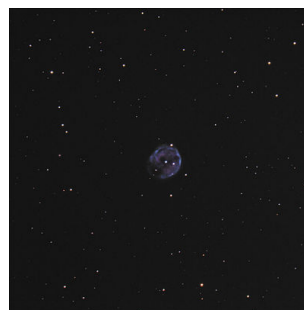
10/9/12   11:00 PM

IC 1848
Soul Nebula in Cassiopeia

Legend (star magnitudes):
- 0
- 1
- 2
- 3
- 4
- 5
- > 5

N

Cam   UMi

Aur

Dra

CrB

IC1848/Ced9a

+80°

Cep

+70°

Per   Cas

+60°

Jupiter

Her

Cyg   Lyr

+50°   Lac

Tau

Tri   And   +40°

Ari   Vul

E   +30°   Sge   W

Psc   +20°   Peg

4h   17h

Del

3h   Equ   Aql   18h

2h   +10°   20h   19h

1h   Uranus   Sct   Ser

Cet   0h   +0°   22h   21h

Aqr   -10°   Neptune   Pluto

For   Cap   Sgr

-20°

Sgr

PsA   -30°

Scl   Mic

-40°

Phe   Gru   -50°

S
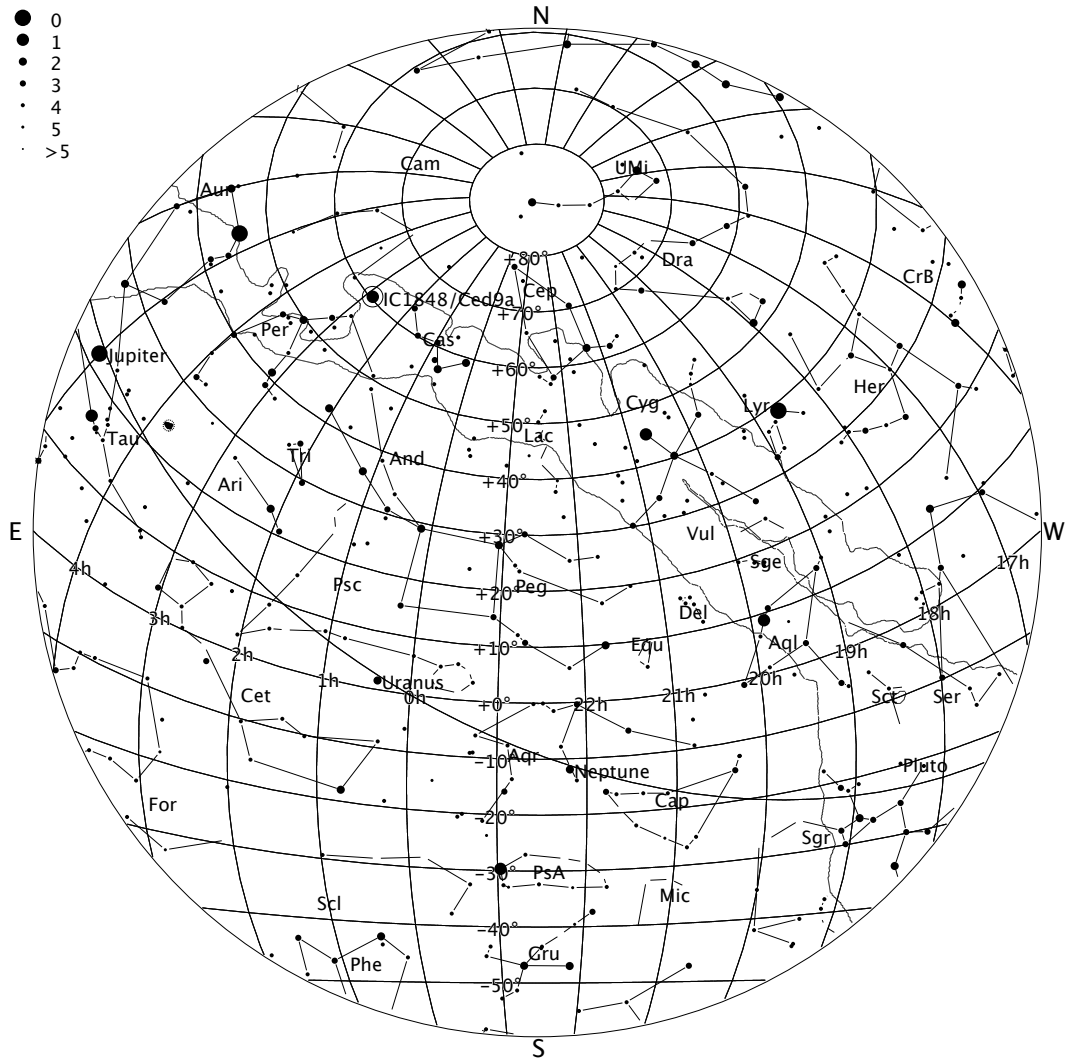
Soul Nebula

Size 60x30'
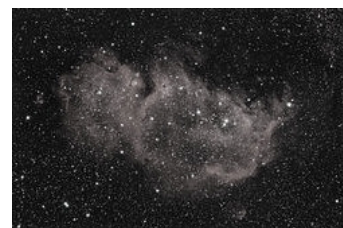
10/9/12   11:00 PM

NGC 1333
Emission Nebula in Perseus

N

S

E

W

Cam · UMi · Aur · Dra · CrB · Cep · Per · Cas · Her · Jupiter · Cyg · Lyr · NGC1333 · Lac · Tau · Tri · And · Ari · Vul · Psc · Peg · Sge · Sgr · Del · Equ · Aql · Cet · Uranus · Aqr · Neptune · Scu · Ser · Pluto · For · Cap · Scl · Sgr · PsA · Mic · Phe · Gru

+80° +70° +60° +50° +40° +30° +20° +10° +0° −10° −20° −30° −40° −50°

4h 3h 2h 1h 0h 22h 21h 20h 19h 18h 17h
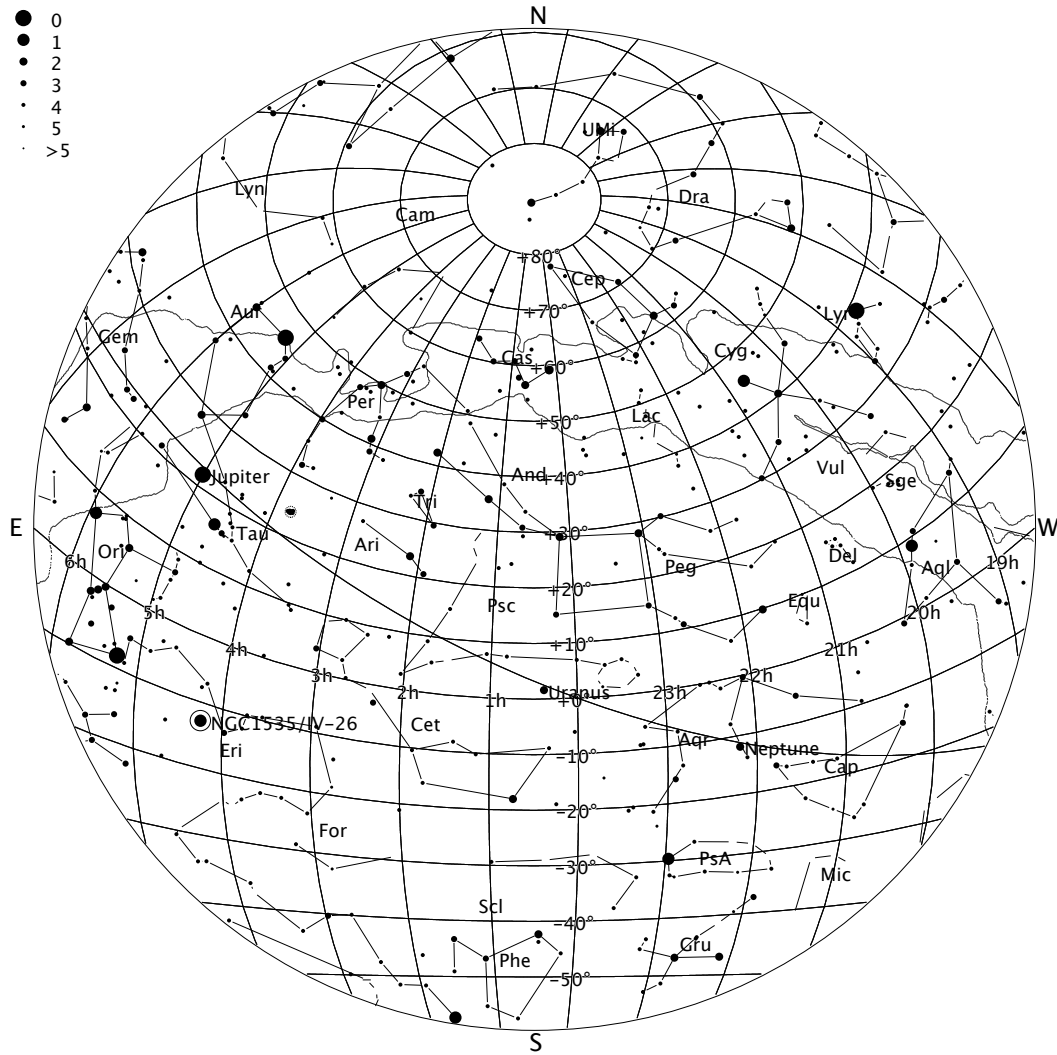
0
1
2
3
4
5
> 5
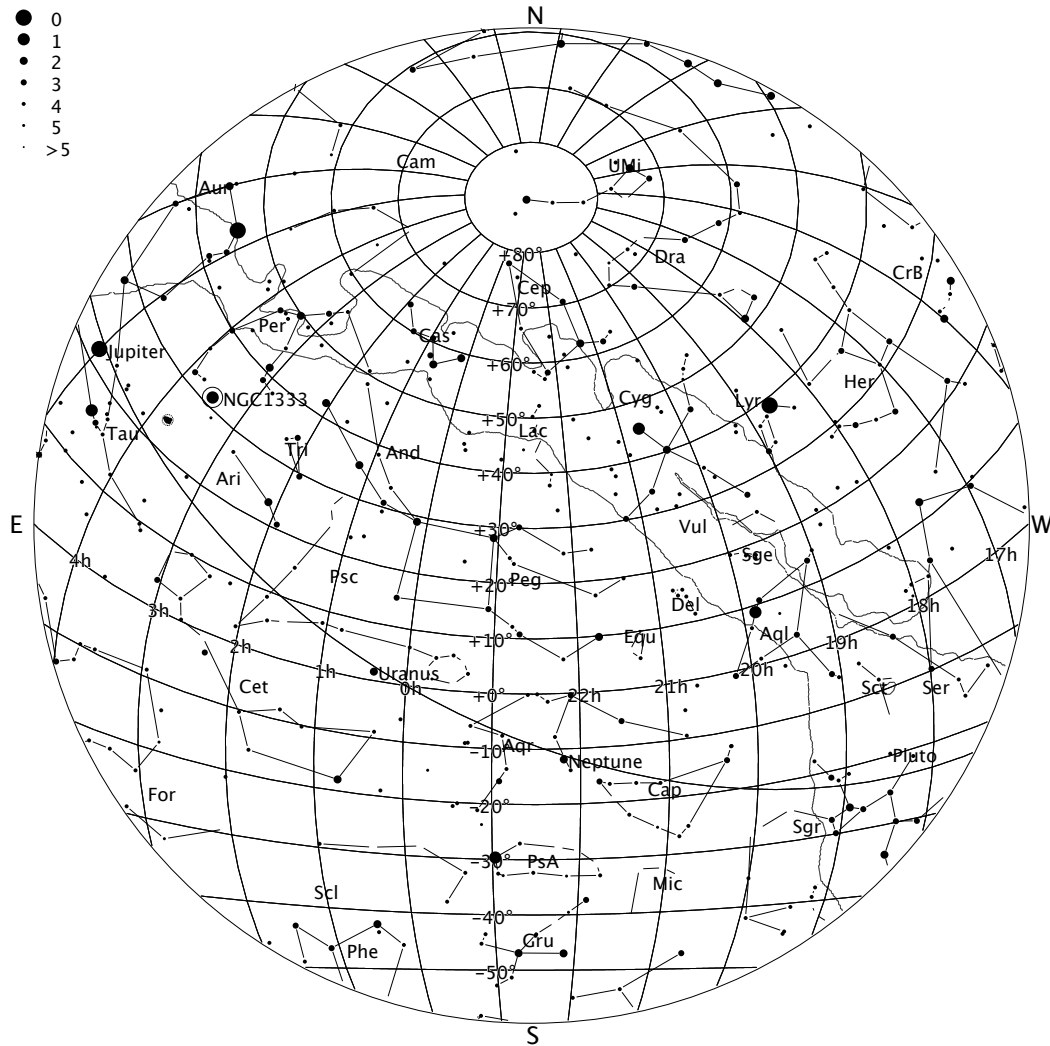
10/9/12   11:00 PM

NGC 1333

Size 9'
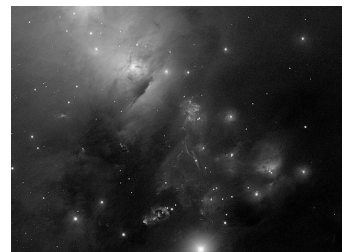
NGC 1535
Cleopatra's Eye Nebula in Eridanus

Cleopatra's Eye Nebula

Size 1x1'
'

10/9/12   1:00 AM

IC 2118
Witch Head Nebula in Eridanus

0
1
2
3
4
5
>5

N

UMi
Dra
Lyn
Cam
Cep
Lyr
+80°
+70°
Cyg
Cas
+60°
Aur
Gem
Lac
Per
+50°
Vul
Sge
+40° And
E
Tri
Jupiter
+30°
Del
Aql
W
Tau
Ari
Peg
Equ
20h
Ori
+20°
6h
Psc
21h
5h
+10°
4h Witch Head Nebula
22h
IC2118/Witch Head Nebula
3h
2h
+0°
Uranus
23h
0h
Cet
Aqr
Lep
Neptune
Cap
Eri
−10°
−20°
For
PsA
−30°
Scl
−40°
Gru
Phe
−50°

S
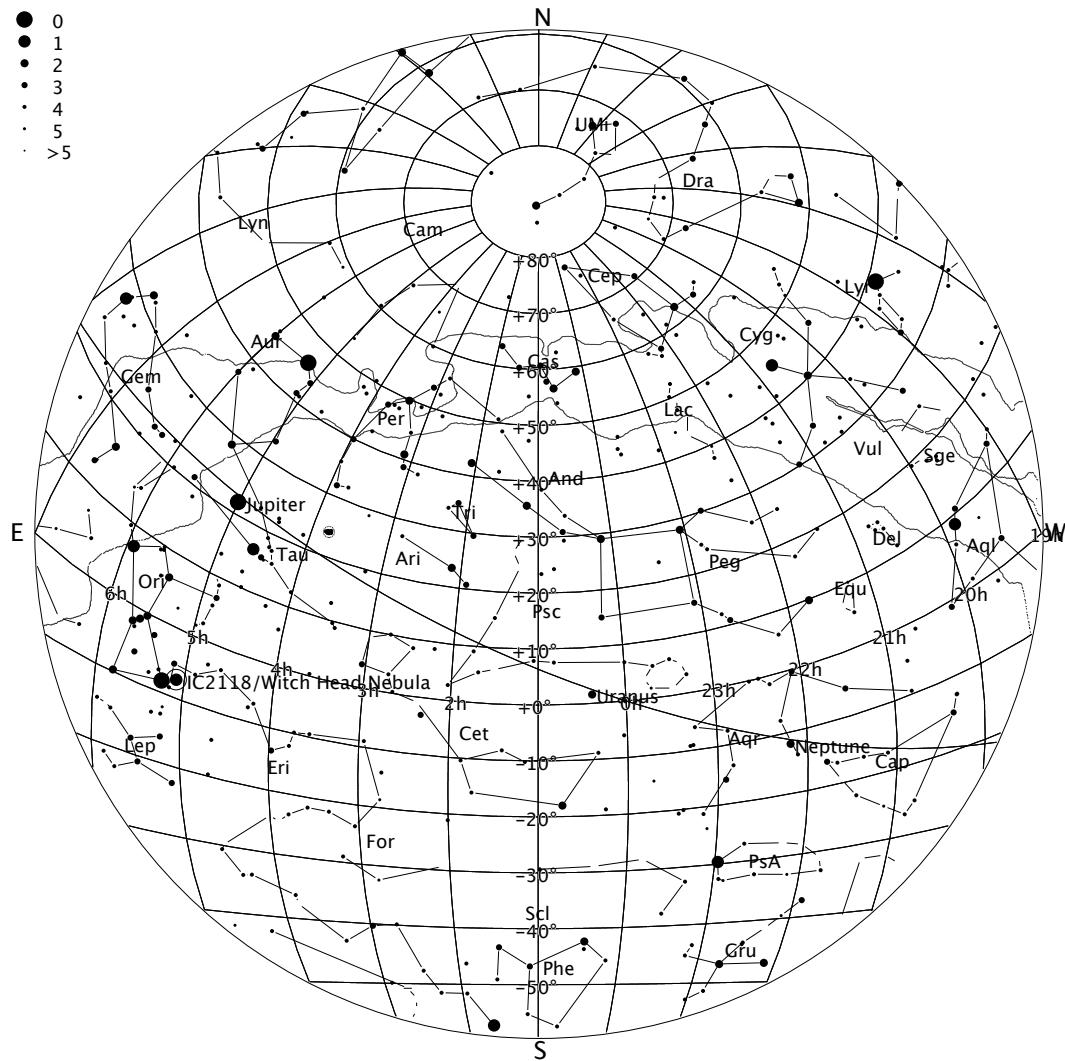
Witch Head Nebula

Size 180x60'

10/9/12   1:30 AM

M1
Crab Nebula in Taurus

N

0
1
2
3
4
5
>5

UMi

Dra

Lyn
Cam

+80°
Cep
+70°
Ly

Aur
Cyg
Cas
+60°

Gem
Per
+50°
Lac

+40° And
Vul
Sge

M1 / Crab Nebula
Jupiter
Ti

E
+30°
Del
Aql
W

Tau
Ari
Peg

Ori
+20°
Equ

6h
Psc
20h

5h
+10°
21h

4h
22h

3h
2h
+0°
Uranus
0h
23h

Cet
Aqr
Neptune
Cap

Lep
-10°

Eri

-20°

For

-30° PsA

Scl
-40°

Gru

-50° Phe
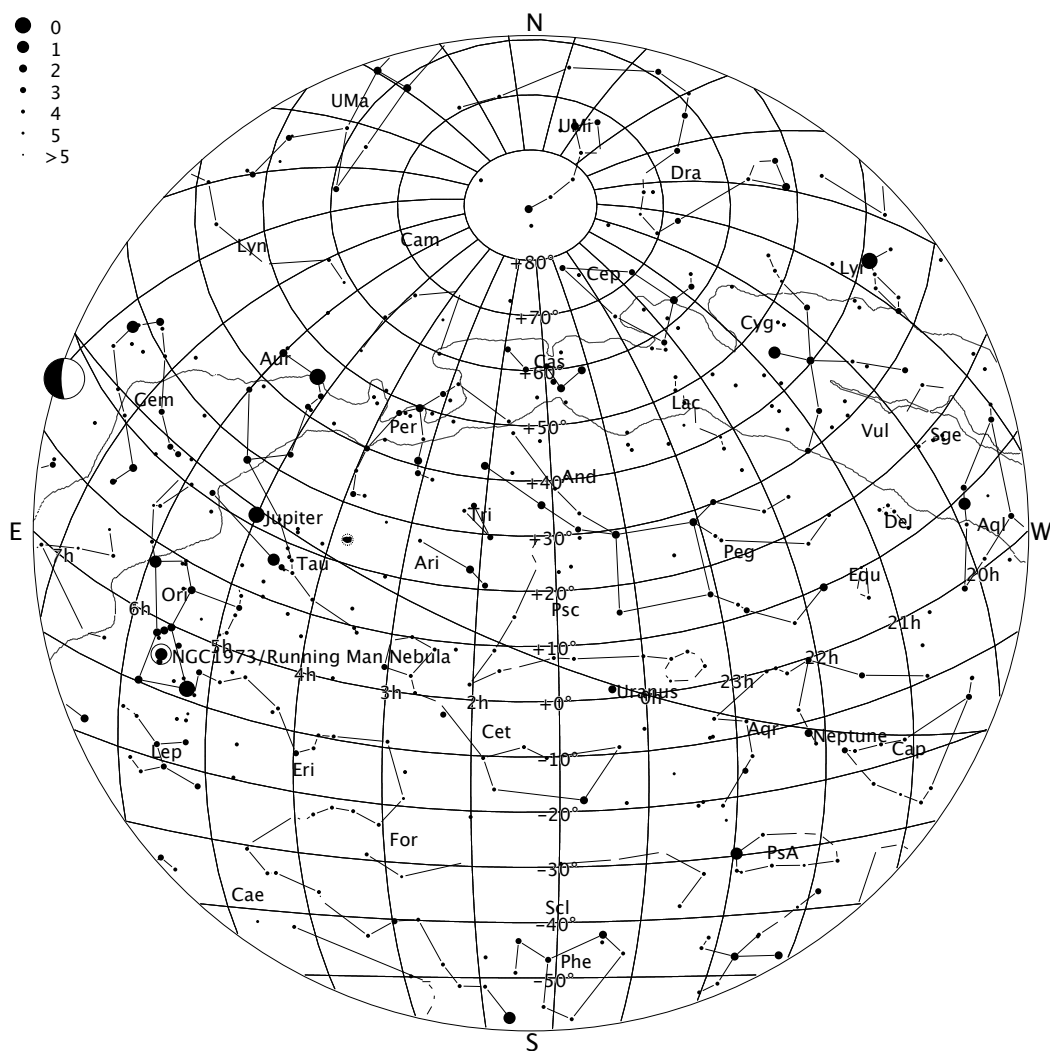
S
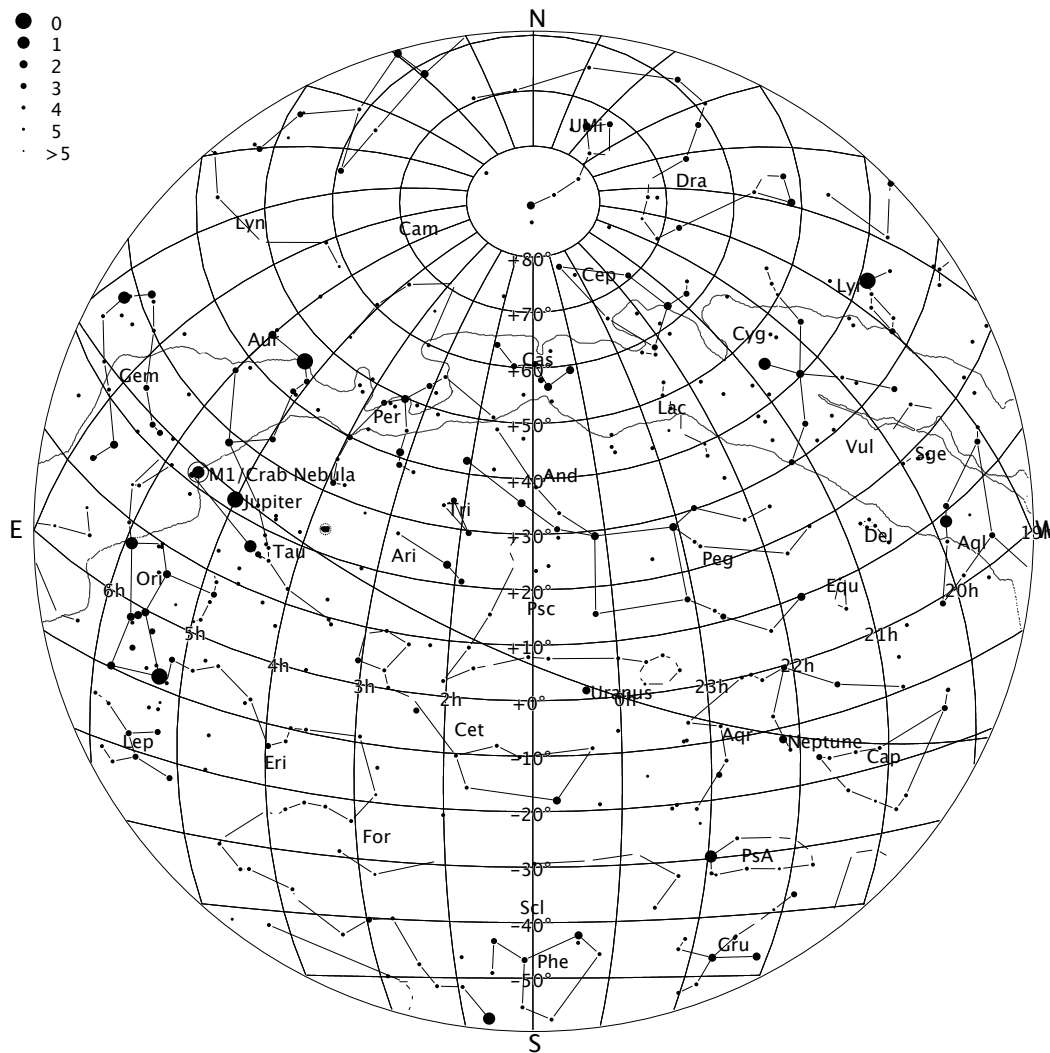
Crab Nebula
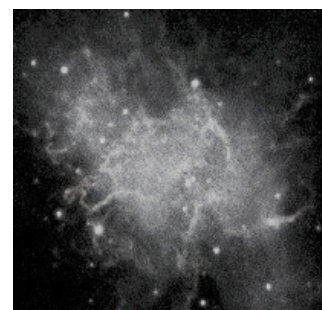
Size 6x4'

10/9/12 1:30 AM

NGC 1973
Running Man Nebula in Orion

Running Man Nebula

Size 40x25'

10/9/12   1:50 AM

M42
Great Orion Nebula in Orion

Legend (star magnitudes):
- 0
- 1
- 2
- 3
- 4
- 5
- > 5

N

UMa
UMi
Dra
Cam
Lyr
+80°
Cep
Lyr
+70°
Cyg
Cas
+60°
Aur
Lac
Gem
+50°
Vul
Sge
Per
+40°
And
Tri
DeJ
Jupiter
+30°
Peg
W
E
Ari
Equ
20h
7h
+20°
Mon
Psc
21h
Ori
6h
Tau
22h
5h
M42 Great Orion Nebula
+10°
4h
23h
3h
+0°
1h
Uranus
Cet
Aqr
Neptune
Cap
Lep
−10°
Eri
For
−20°
PsA
−30°
Cae
Scl
−40°
Phe
−50°
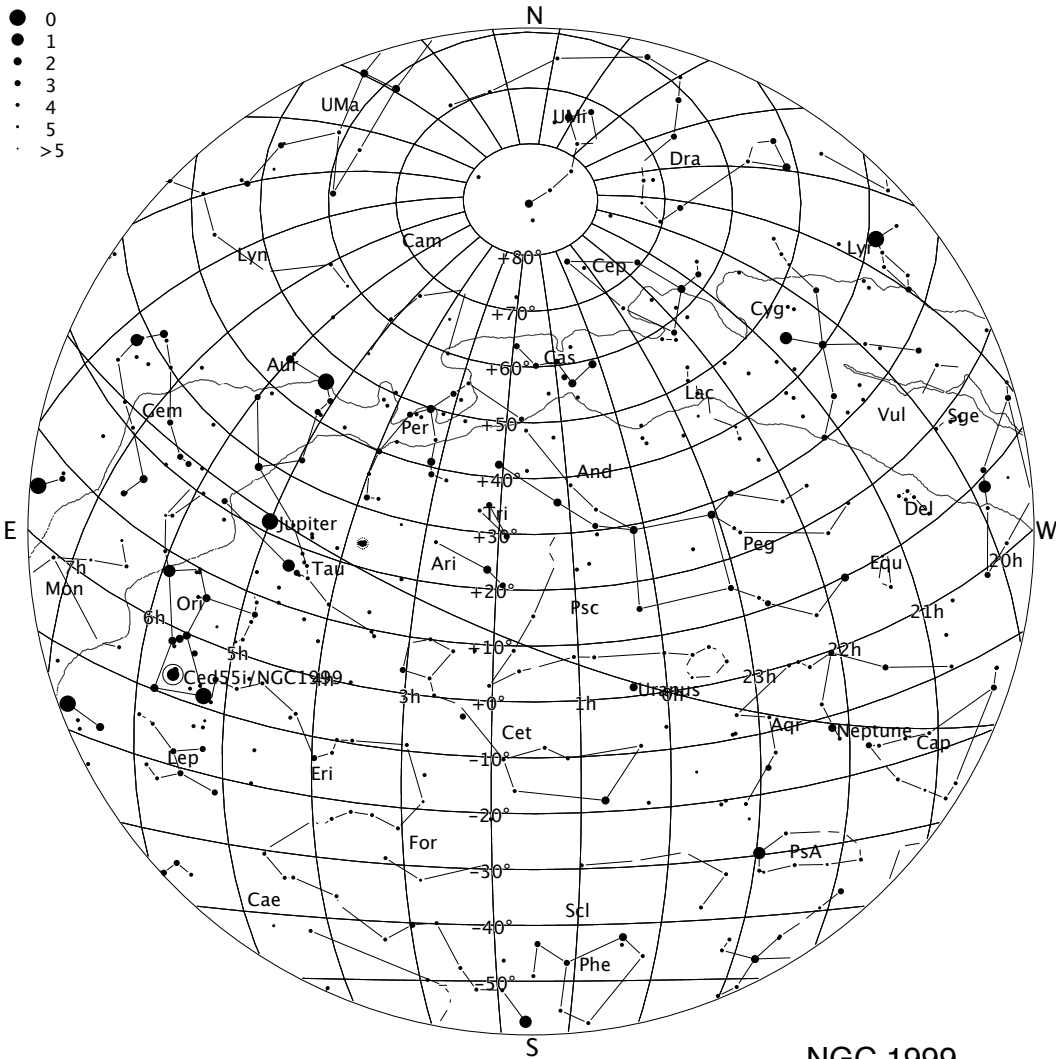S

10/10/12 2:00 AM

Great Orion Nebula
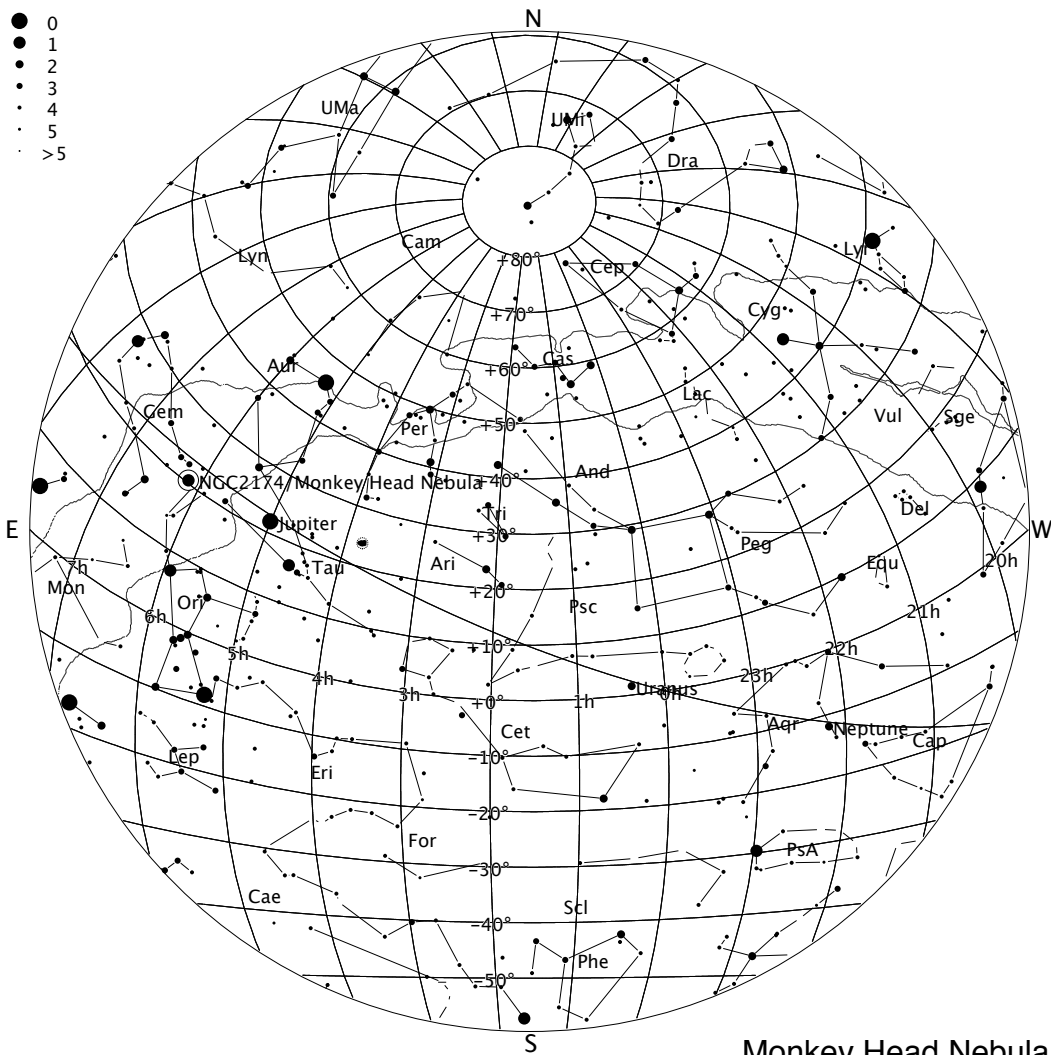

Size 65x60'
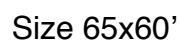
NGC 1999
Dark + Bright Nebula in Orion

NGC 1999

Size 16x12'

10/10/12 2:00 AM

NGC 2174
Monkey Head Nebula in Orion

Magnitude legend:
- 0
- 1
- 2
- 3
- 4
- 5
- > 5

N

UMa, UMi, Dra, Lyr, Cam, Cep, Cyg, Lyn, Cas, Lac, Aur, Per, Vul, Sge, Gem, And, Del, NGC2174 Monkey Head Nebula, Mi, Peg, Equ, Jupiter, Tau, Ari, Psc, Mon, Ori, Uranus, Lep, Eri, Cet, Aqr, Neptune, Cap, For, PsA, Cae, Scl, Phe

+80°, +70°, +60°, +50°, +40°, +30°, +20°, +10°, +0°, −10°, −20°, −30°, −40°, −50°

7h, 6h, 5h, 4h, 3h, 1h, 23h, 22h, 21h, 20h

E, W, S

Monkey Head Nebula

Size 40'

10/10/12 2:00 AM