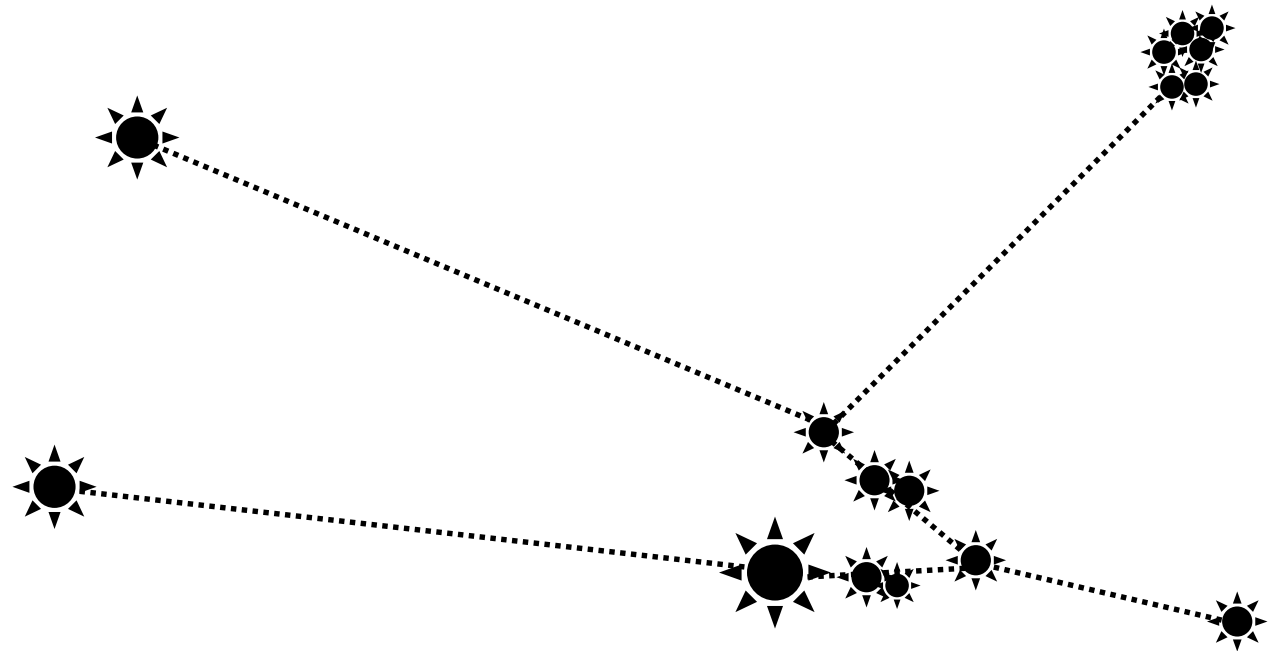


# Constellation Close-Up: Taurus

*James Appleton*

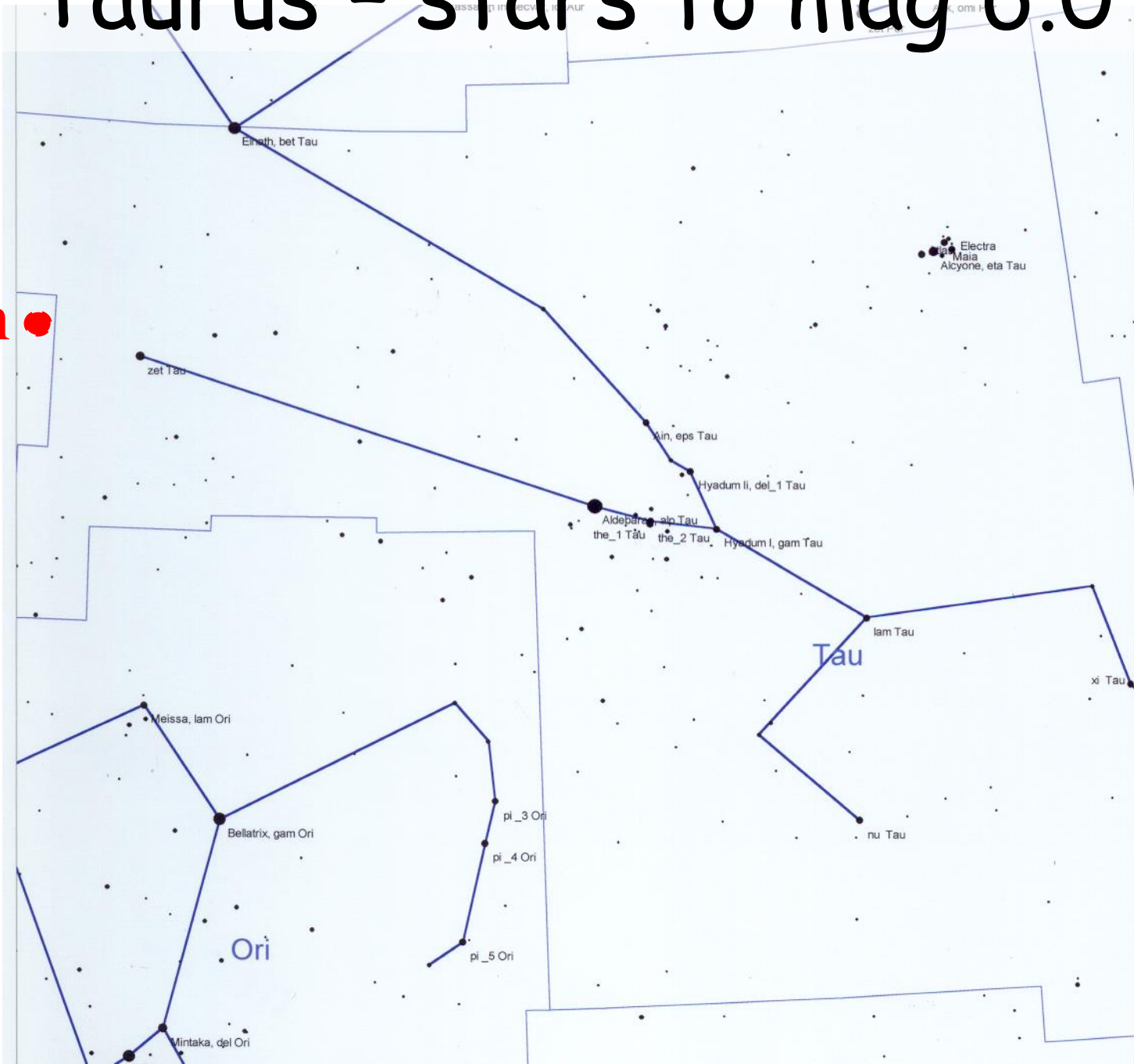


# Discussion Topics

- Introduction to Taurus
- The Hyades
- Crab Nebula (M1)
- The Pleiades
- Observing project – stars in the Pleiades

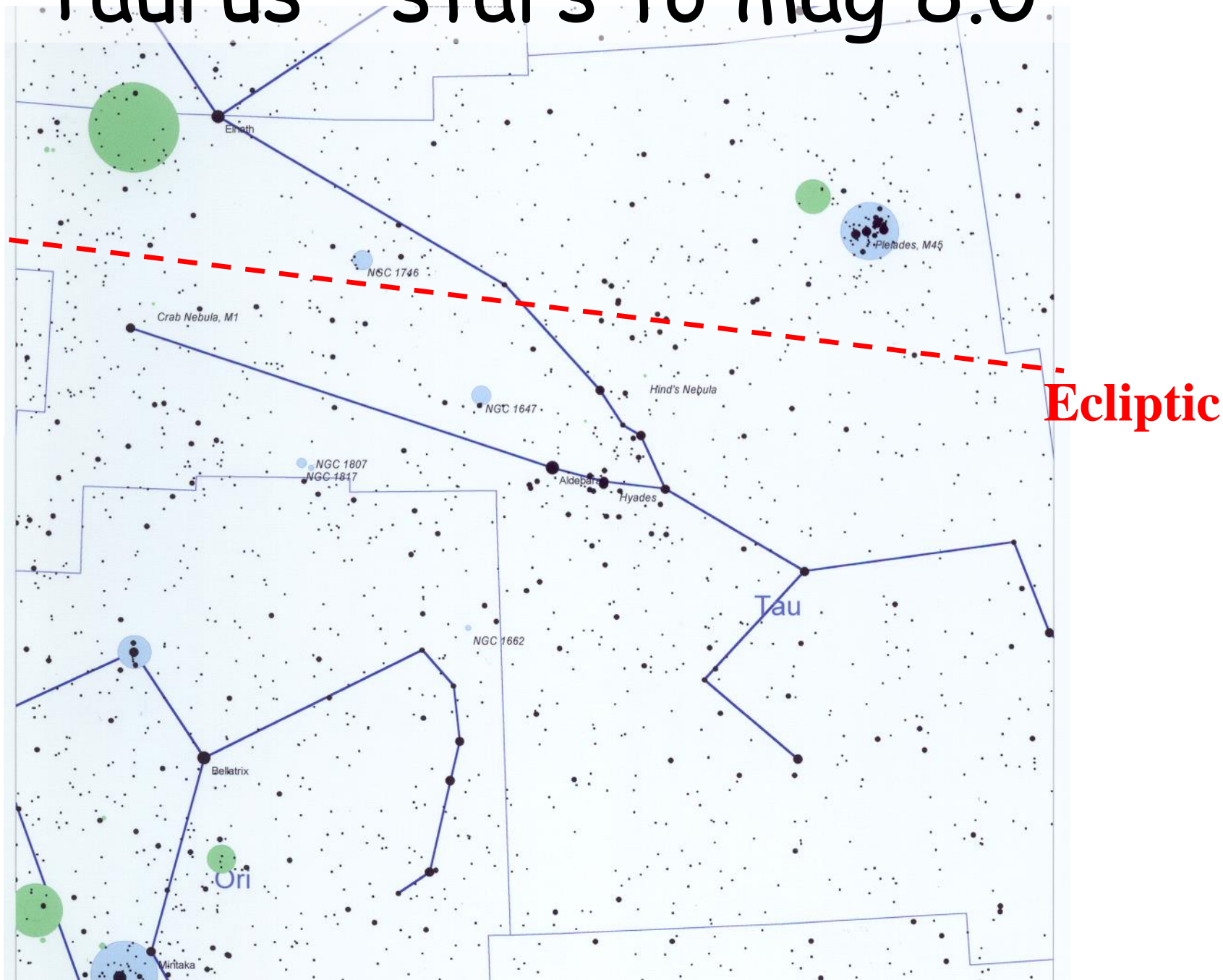
# Introduction to Taurus

# Taurus - stars to mag 6.0



Saturn ●

# Taurus - stars to mag 8.0



# Taurus - 60sec Exposure



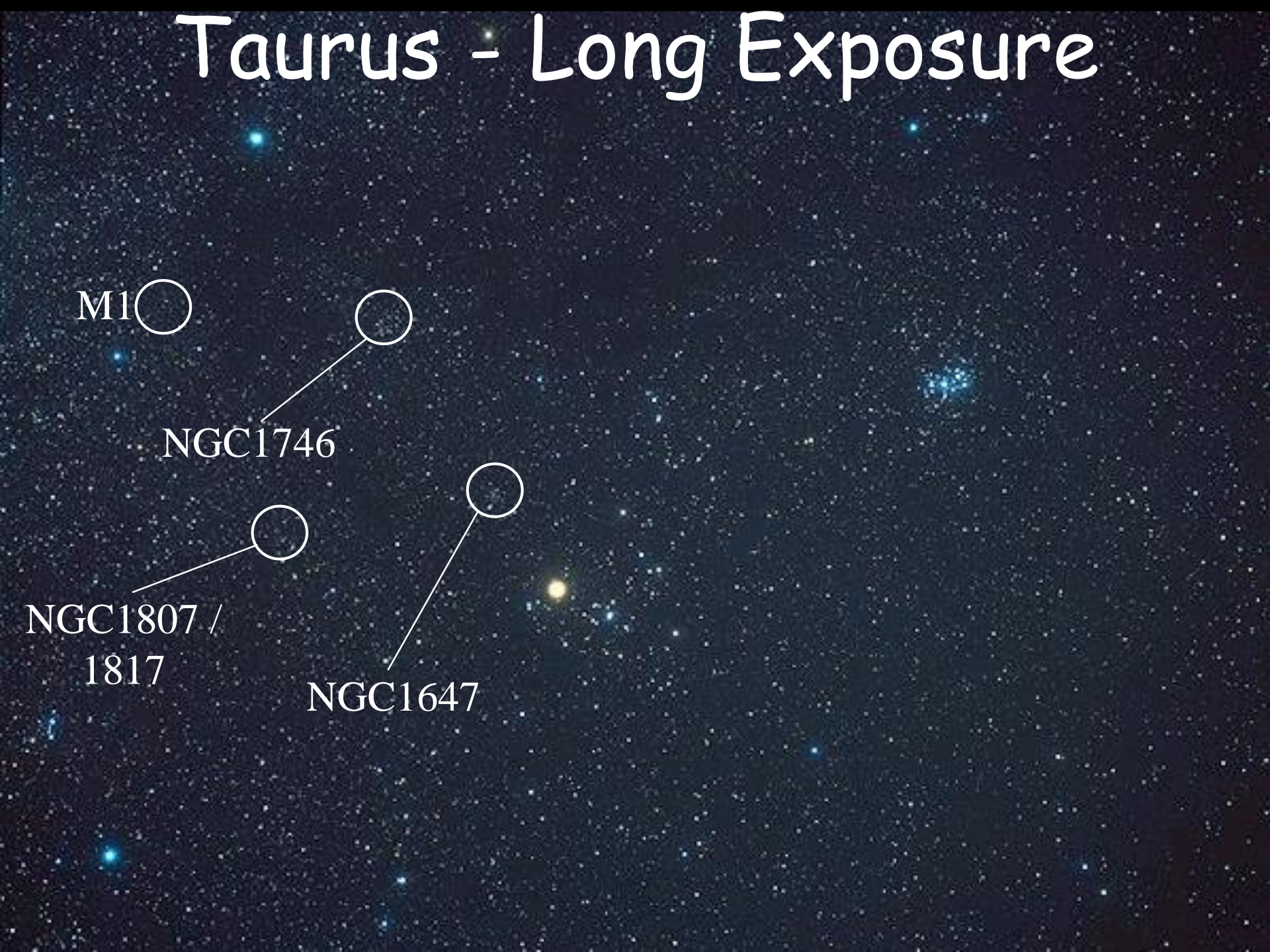
# Taurus - Long Exposure

M1

NGC1746

NGC1807 /  
1817

NGC1647



# The Hyades



# The Hyades



135mm telephoto lens, f2.8, 60s exposure (guided)

# The Hyades



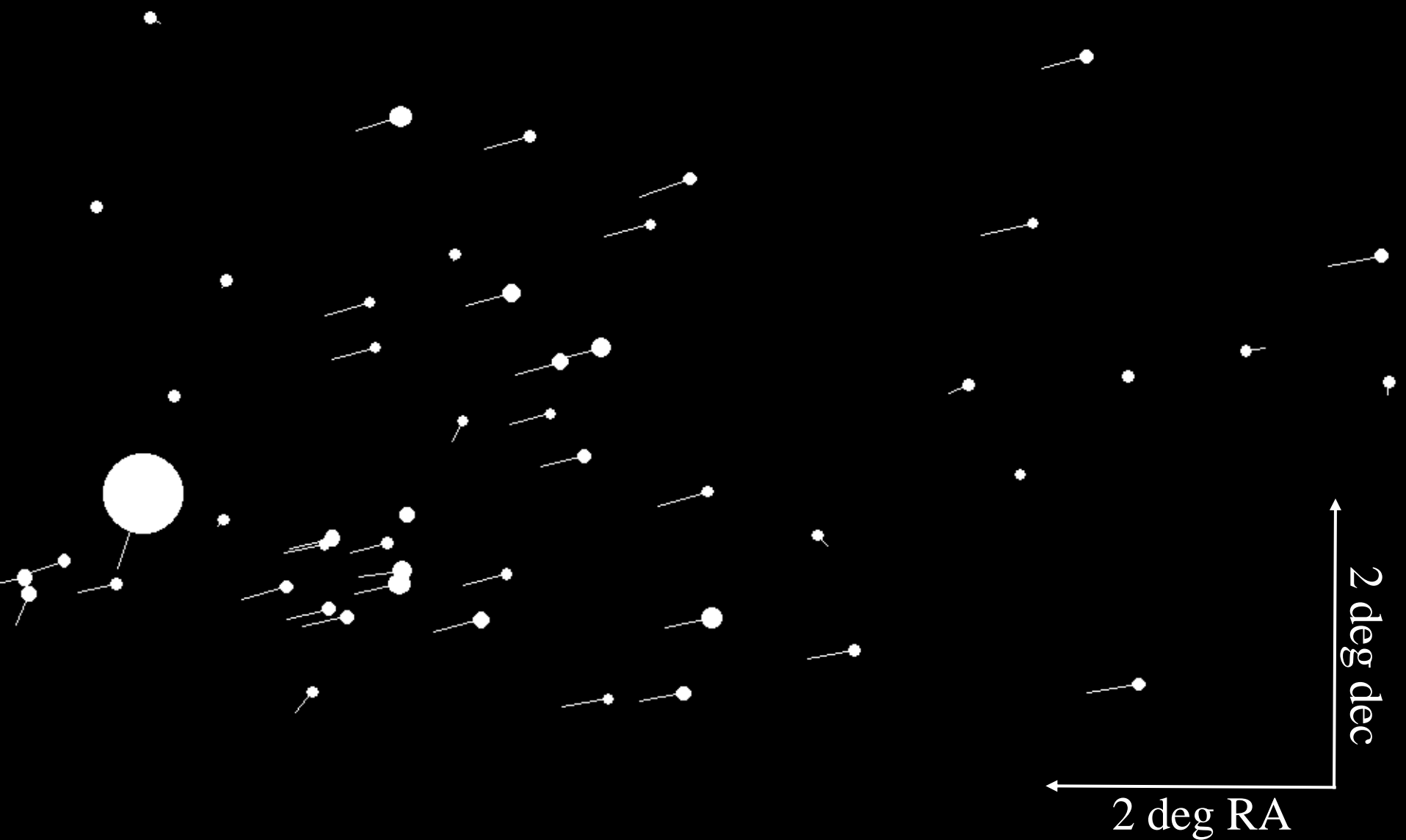
135mm telephoto lens, f2.8, 30min exposure

# Hyades Positions



Stars to mag 7.0 (from Hipparcos)

# Hyades Proper Motions



# The Crab Nebula (M1)

# M1 by Mike Harlow

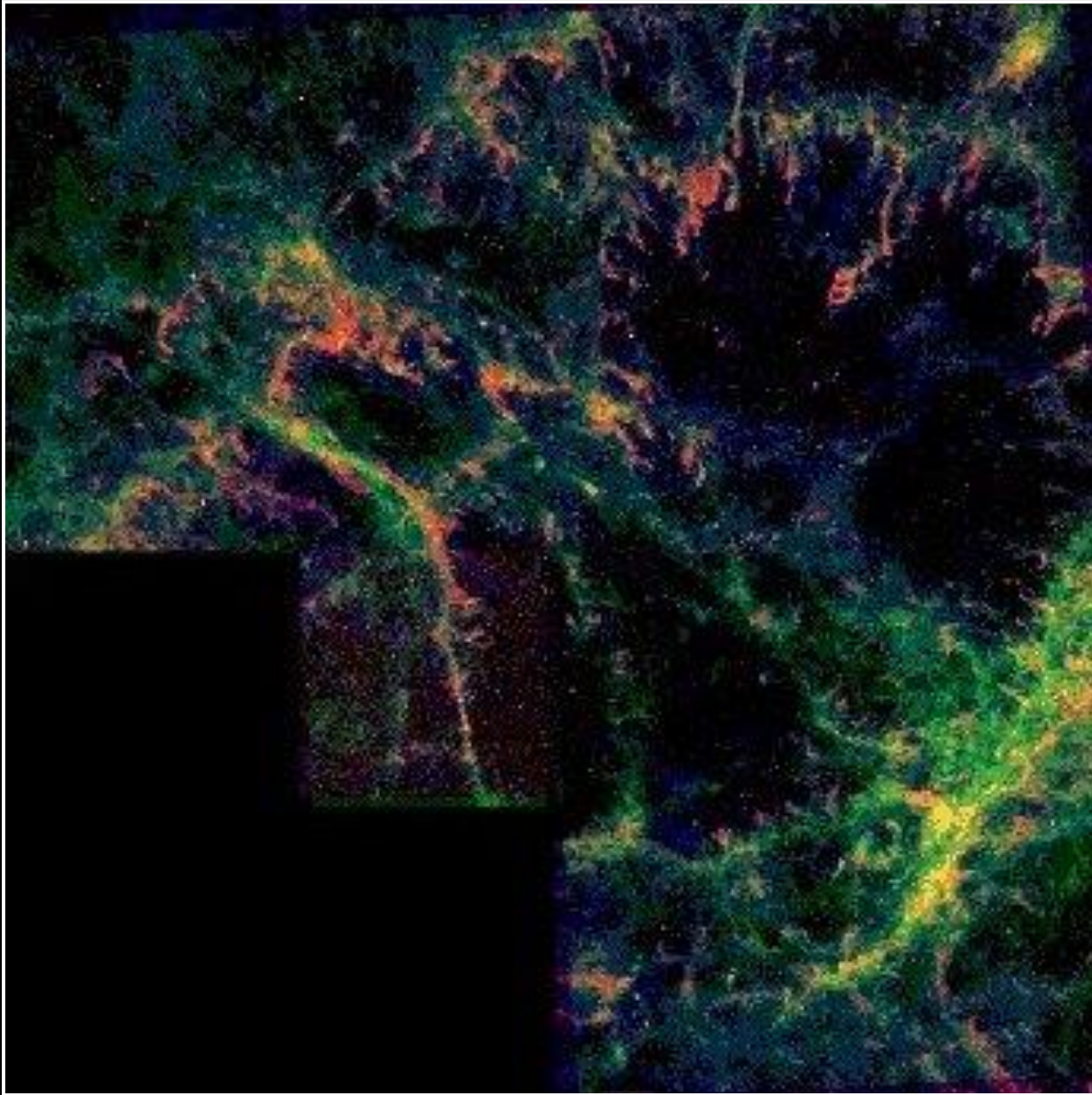


12" Newtonian reflector, Starlight Express CCD camera

# Palomar Image

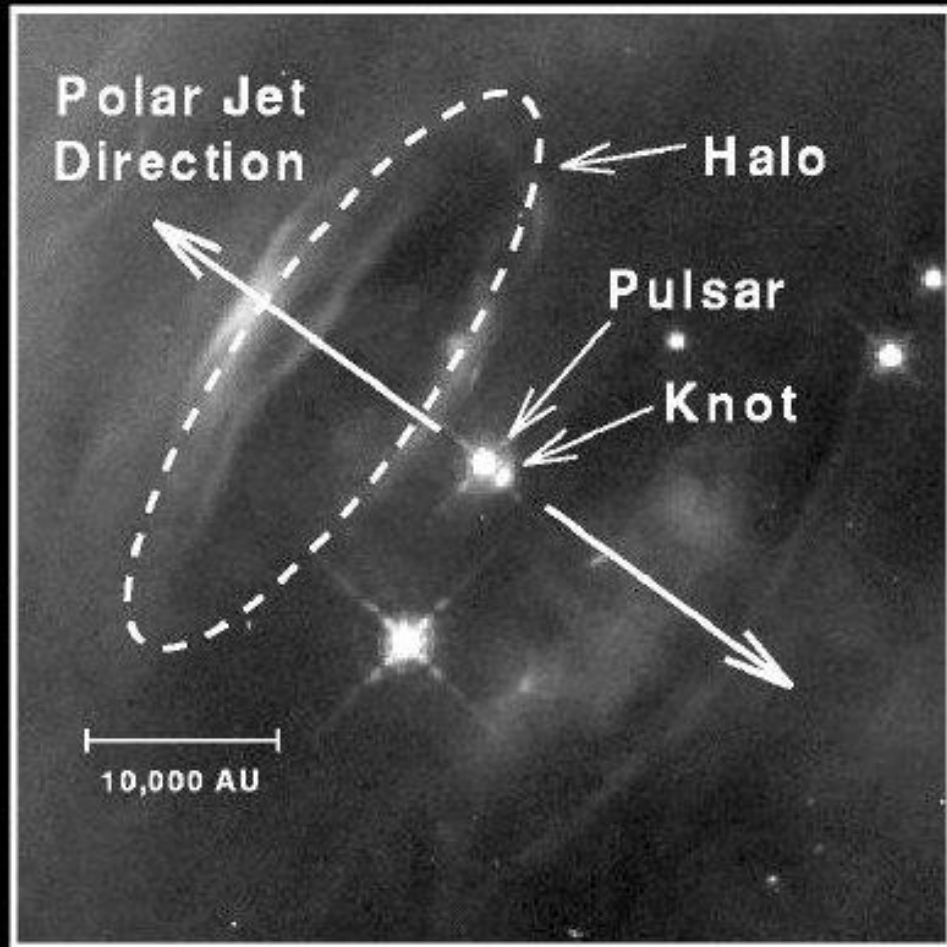
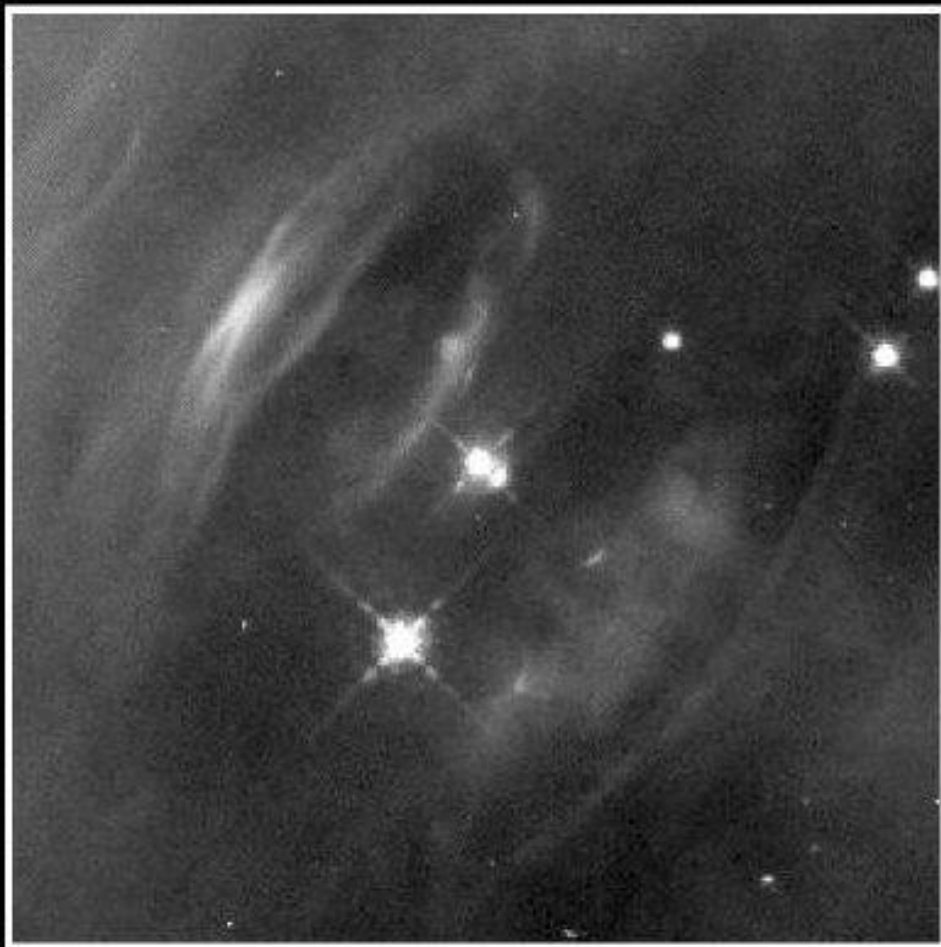


# Hubble Image of Filaments



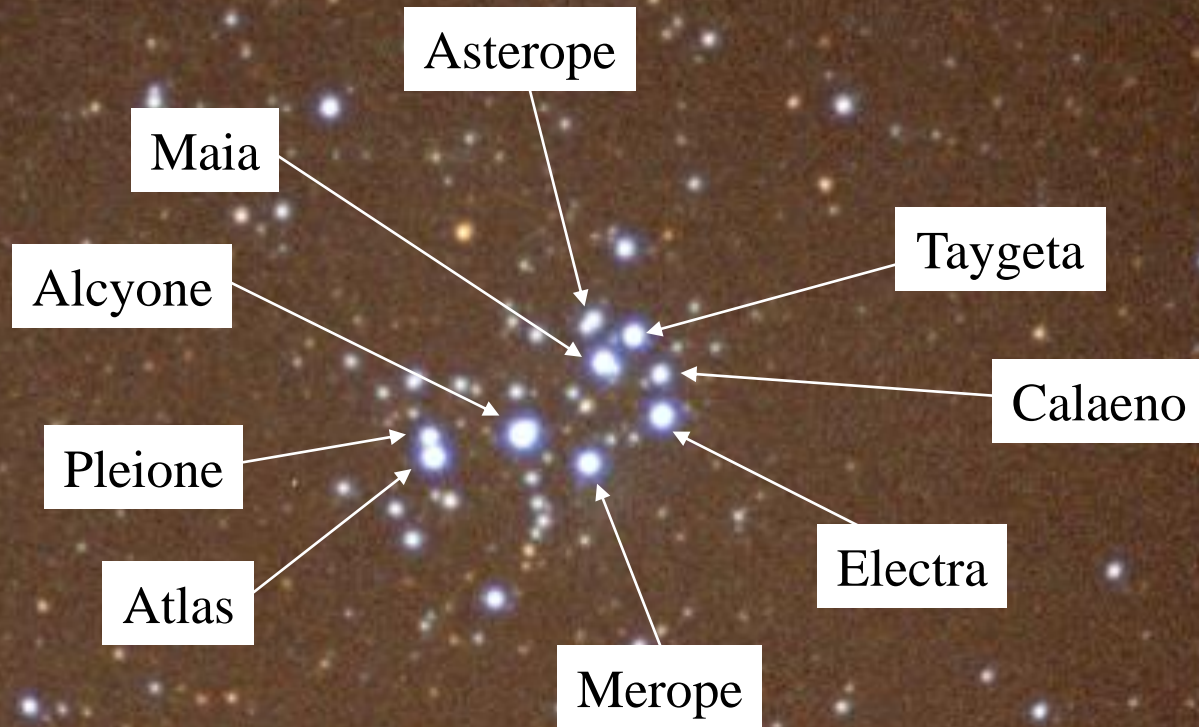


# Hubble Image of Crab Pulsar



# The Pleiades

# The Pleiades



135mm telephoto lens, guided, f2.8, 45s exposure

# The Pleiades



45 minute exposure through 150mm reflector

# Merope Nebula (IC349)



Hubble WFPC2 camera, 18.3 minute exposure.

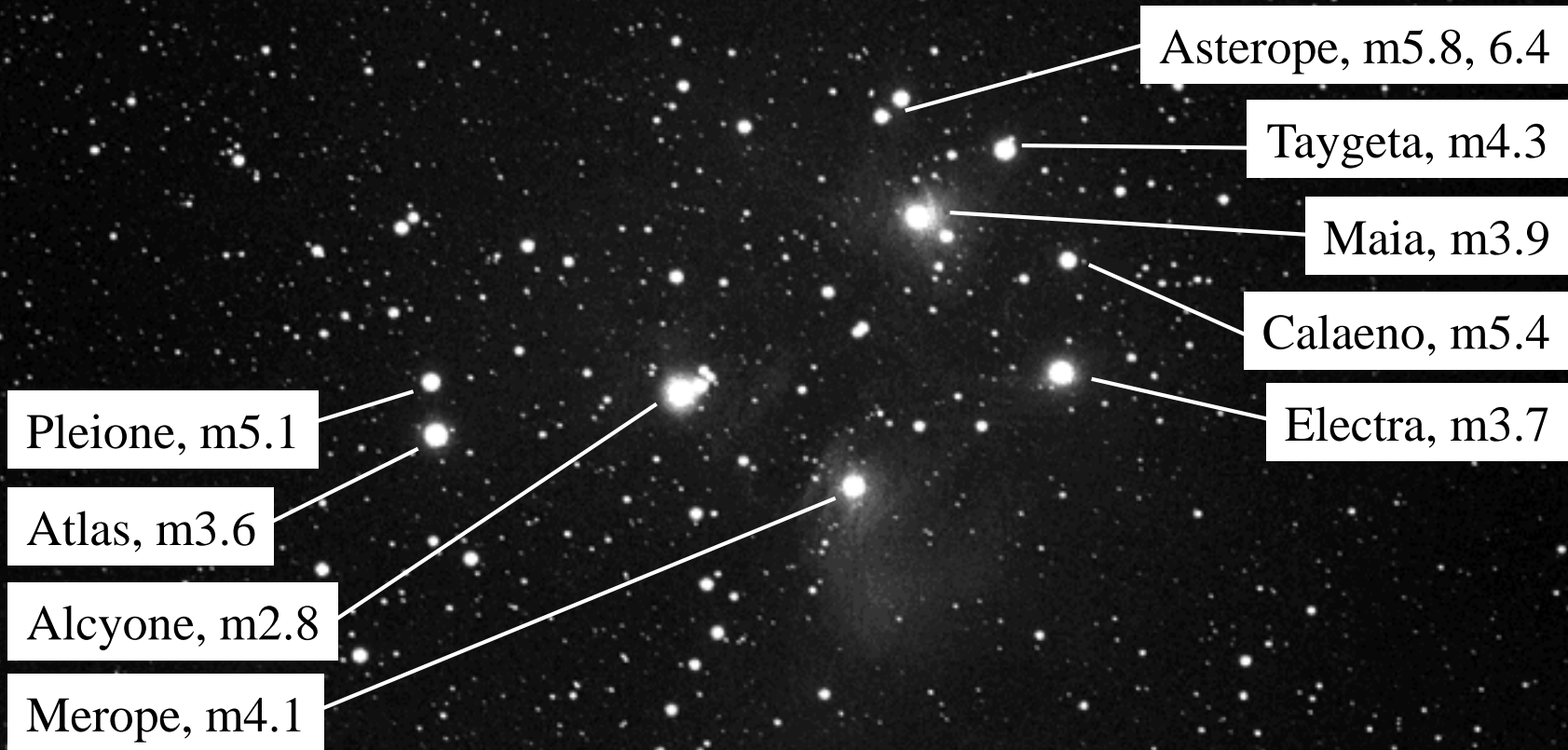
# Observing Project - Stars in the Pleiades

# The Pleiades



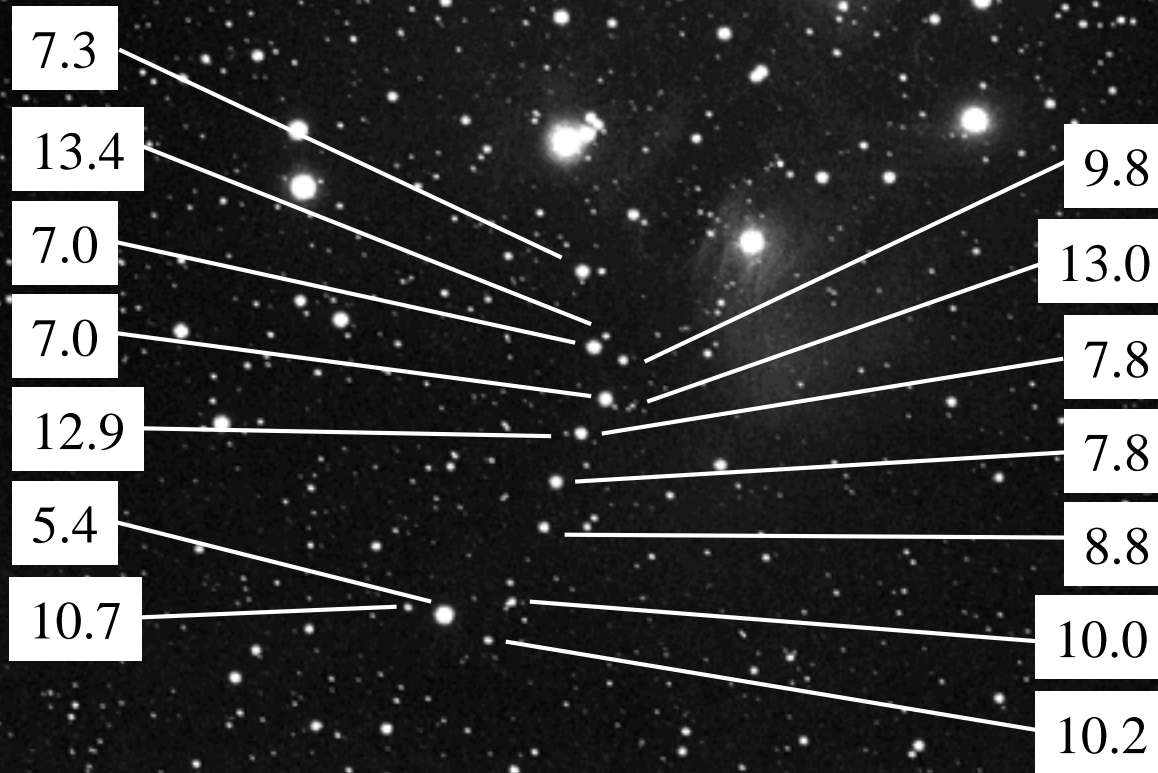
135mm telephoto lens, guided, f2.8, 45s exposure

# Pleiades Magnitudes - Bright





# Pleiades Magnitudes - Faint



# Pleiades - My Magnitude Limits



The image shows a dense field of stars, likely the Pleiades star cluster. Two yellow circles are drawn on the field, with lines pointing to text boxes. The upper circle is connected to a box labeled '254mm Meade SCT limit, mag 12.6'. The lower circle is connected to a box labeled 'Binocular limit, mag 9.8'. The stars are of varying brightness, with the brighter ones being more prominent.

254mm Meade SCT limit, mag 12.6

Binocular limit, mag 9.8