Lab 4 - Nebulae

Nebulae are interstellar clouds of dust and gas which can result from supernova explosions, like M1 the Crab Nebula, http://en.wikipedia.org/wiki/Crab_Nebula
a star's final stage of evolution as in M57, http://en.wikipedia.org/wiki/Ring_Nebula
or dark nebulae such as the Horsehead. http://en.wikipedia.org/wiki/Horsehead_Nebula

Objective

1) Photograph 4-8 examples of nebulae http://en.wikipedia.org/wiki/Nebula during this semester as possible, and identify their type, distance, sky location, and angular size. Specific targets will be provided.

These may include planetary nebulae, http://en.wikipedia.org/wiki/Planetary_nebula
emission nebulae, http://en.wikipedia.org/wiki/Emission_nebula
and dark nebulae. http://en.wikipedia.org/wiki/Dark_nebula

2) Load your final .fits images to DS9 and experiment with different features such as image stretching, false color, and the astrometry functions. Note the specific differences between types of nebulae.