

THE CABRERERA ASTRONOMY CHALLENGE

A simple challenge to find
10 celestial targets with the
naked eye and binoculars.

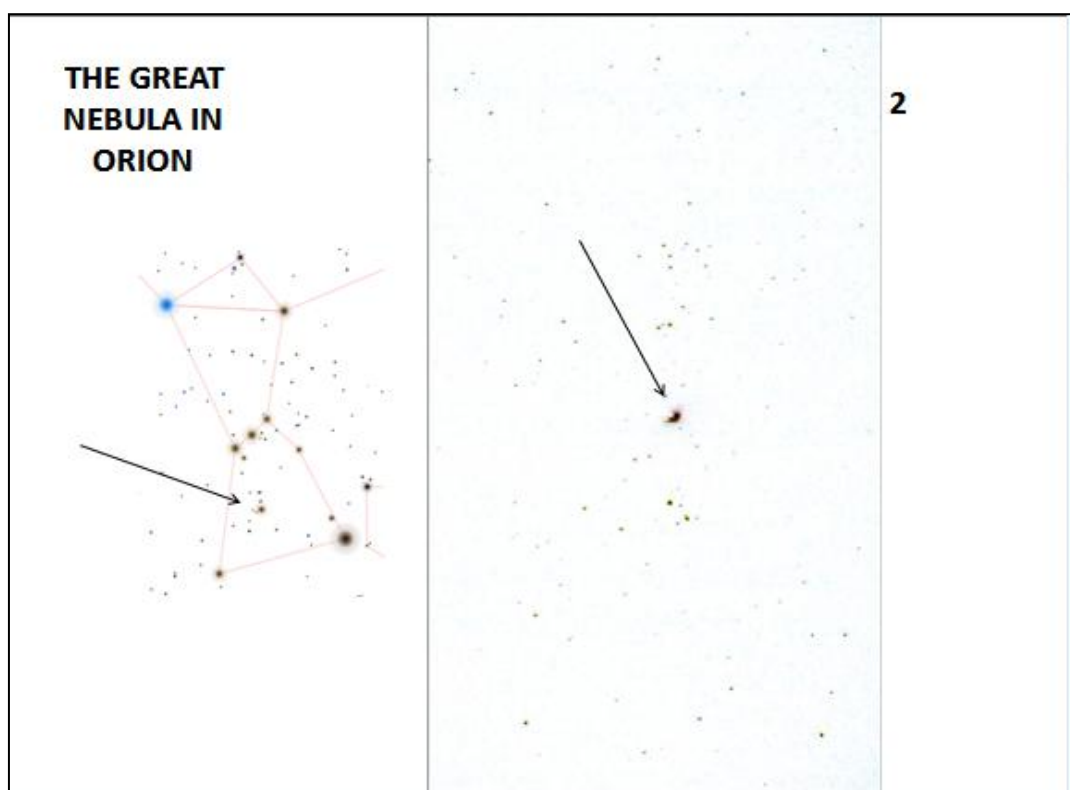
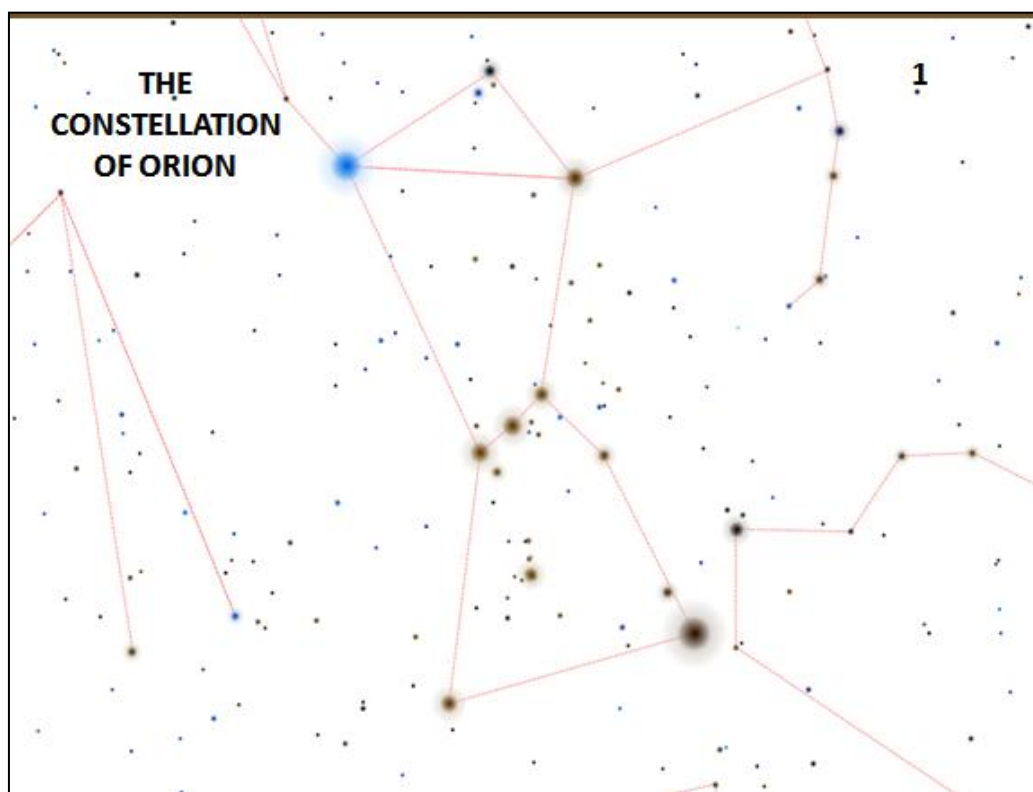
Len Adam

Start to learn about objects in the night sky by locating the 10 targets detailed in this document. They can all be viewed by naked eye or through 7 X 50 binoculars but in some instances may be quite small. If you can find a way to clamp the binoculars by some means it will help with the fainter objects. Leaning the binoculars on a solid object – against a wall or post will help considerably. Do not expect to see Hubble type views – the eye tends to see astronomical objects in monochrome because of low light levels. However the following targets are spectacular in their own way.

You can obtain information using Google – many astronomical objects are detailed in Wikipedia – also some astronomy magazines have web sites that are full of useful information.

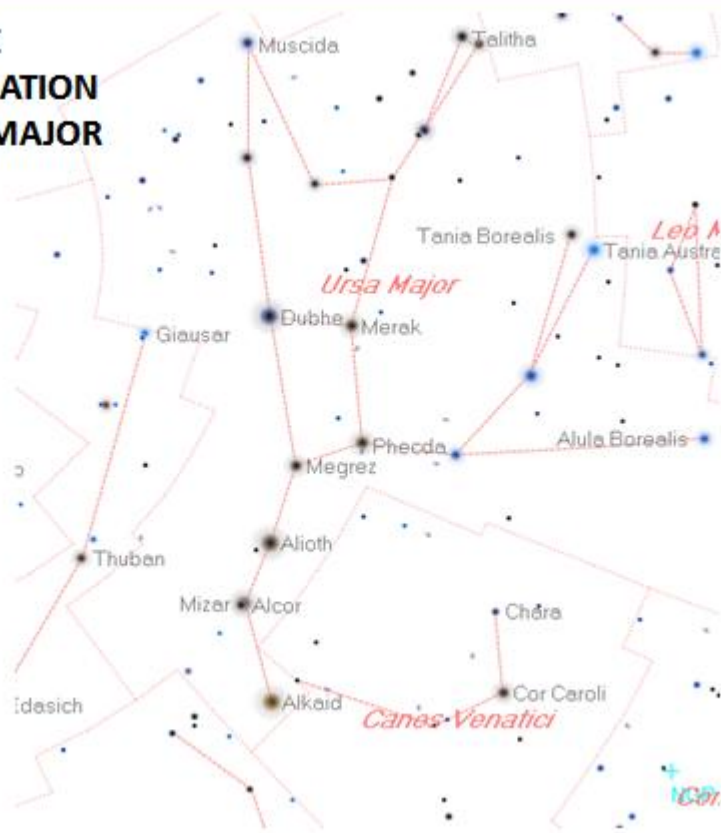
You may wish to sketch the targets e.g. plotting the stars in a constellation and naming them. Astrophotography is also possible but you really need a motor driven mount to counteract the rotation of the earth unless the object is particularly bright when short exposures are possible. Have fun!

Find the following 10 targets



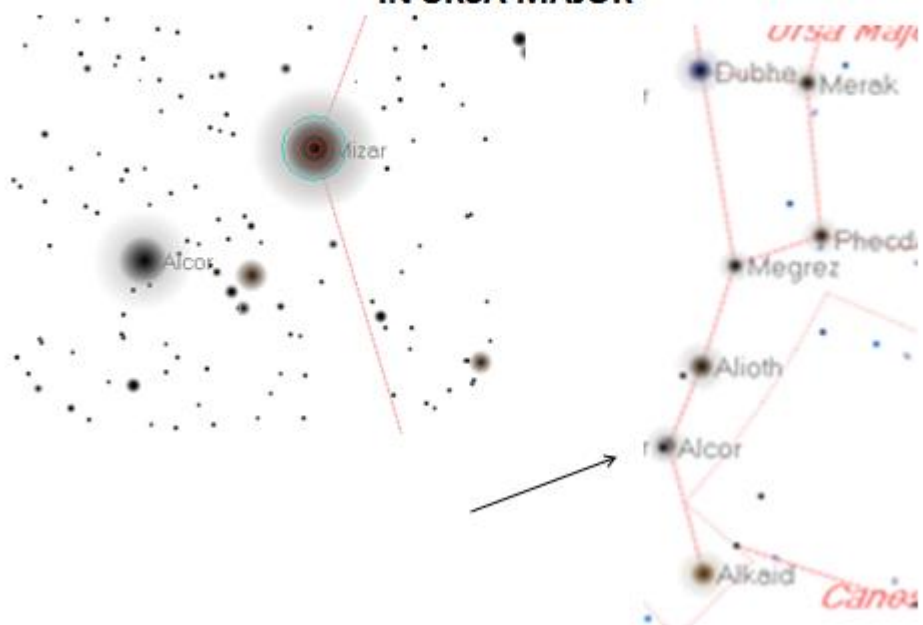
THE CONSTELLATION OF URSA MAJOR

3



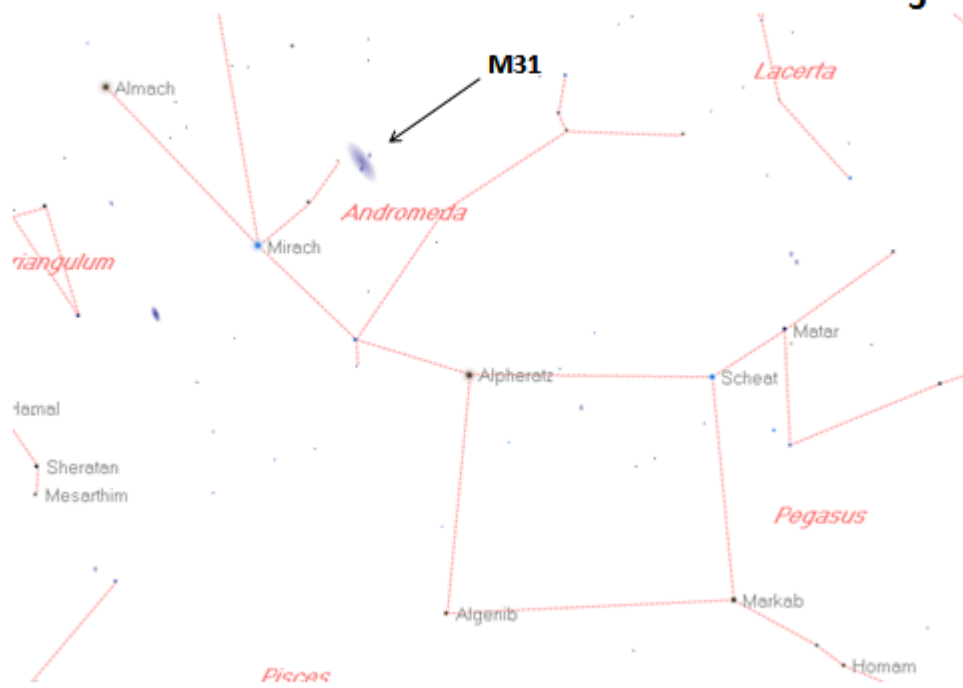
THE DOUBLE STAR MIZAR /ALCOR IN URSA MAJOR

4



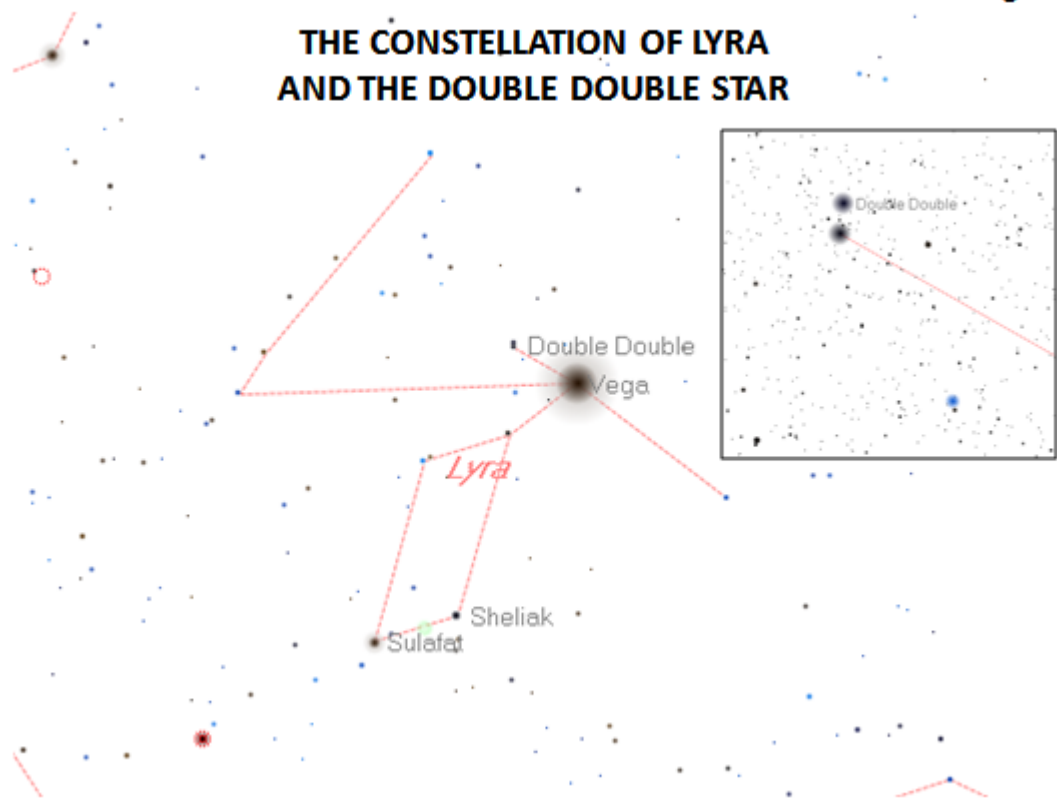
THE ANDROMEDA GALAXY

5



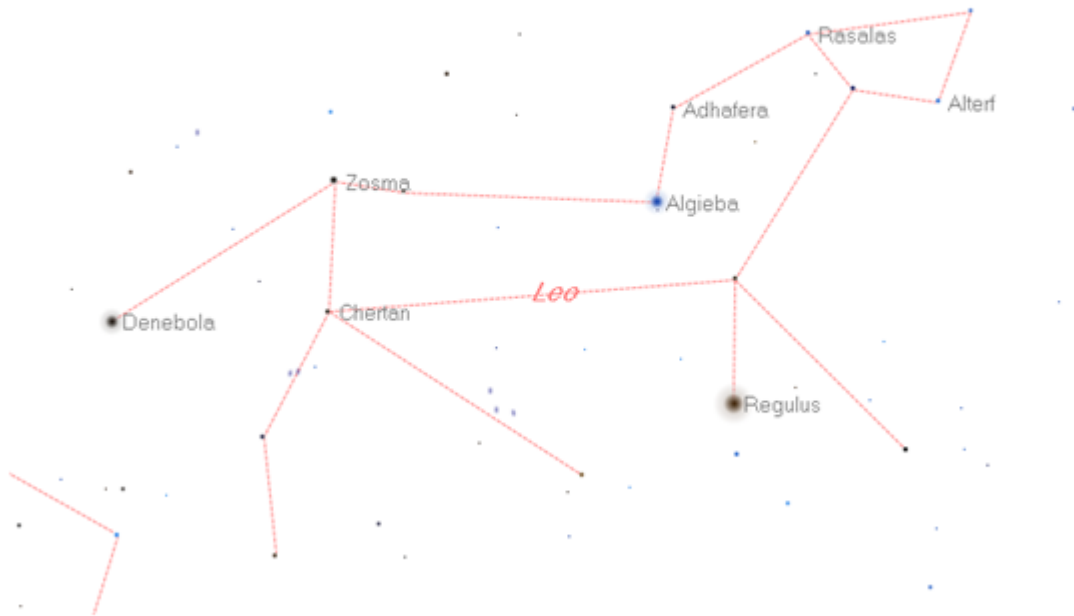
THE CONSTELLATION OF LYRA AND THE DOUBLE DOUBLE STAR

6



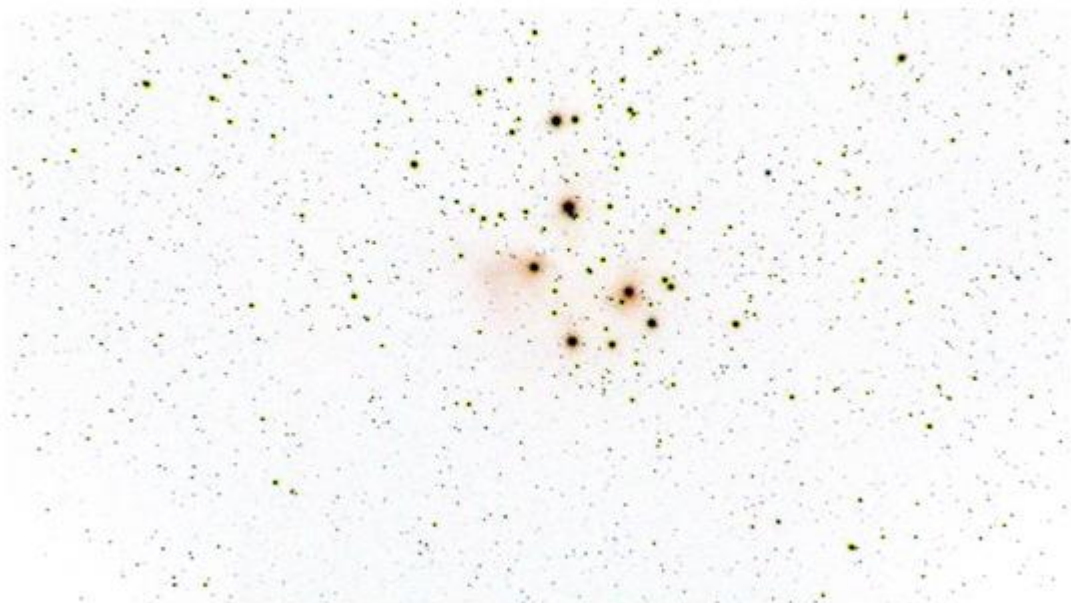
THE CONSTELLATION OF LEO

7



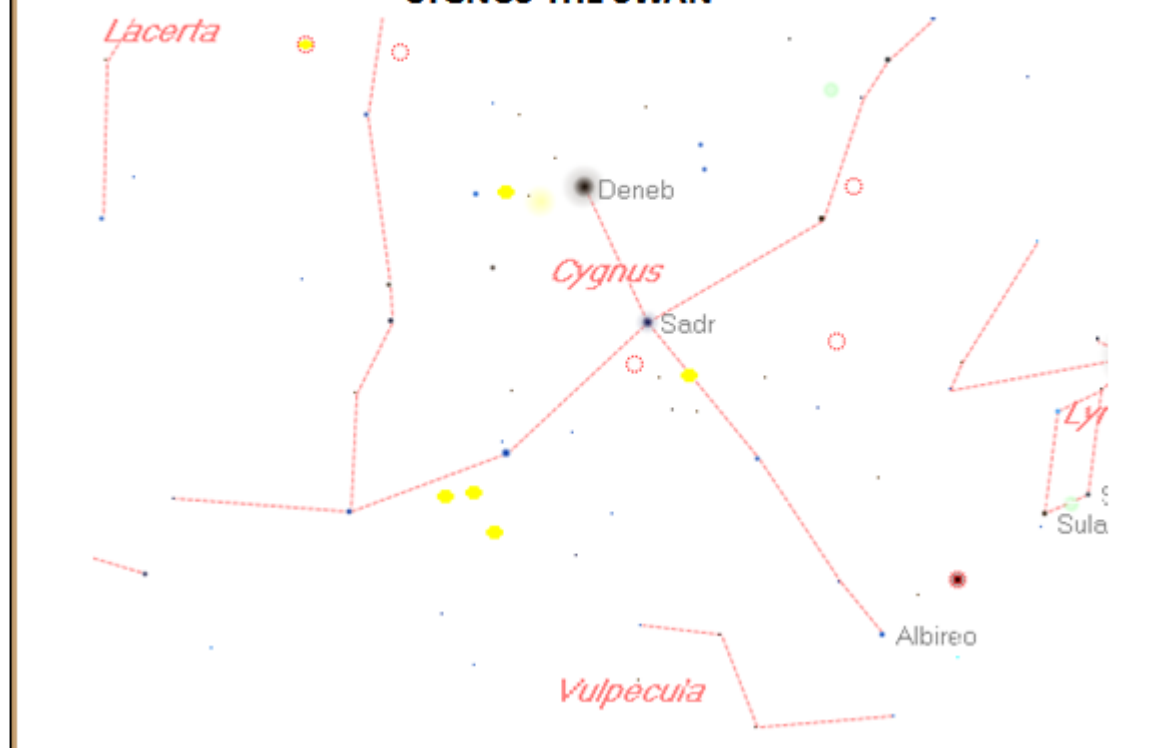
The Pleiades

8



THE CONSTELLATION OF CYGNUS THE SWAN

9



DOUBLE CLUSTER IN PERSEUS

10

