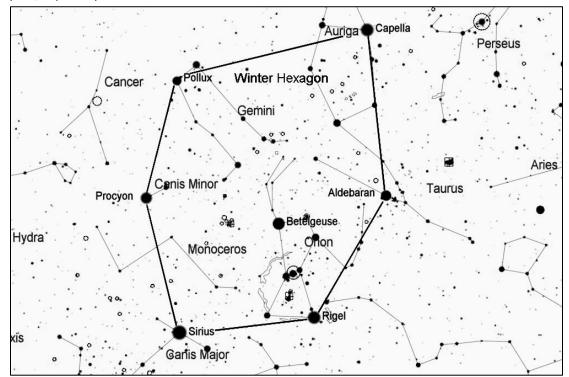
Messier 46 and 47, Open Clusters in Puppis

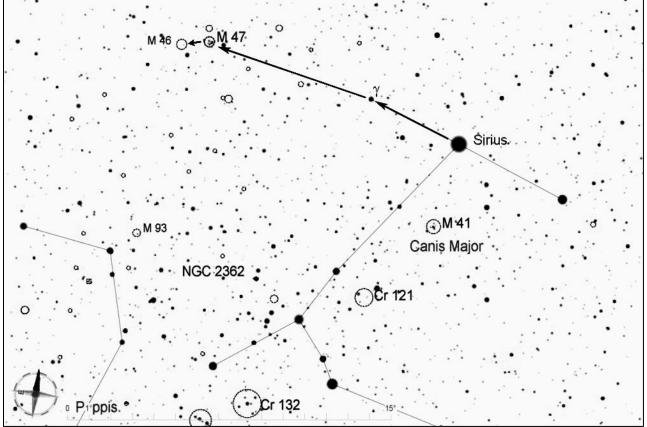
Messier 46 and 47 are two very different open cluster just over a degree apart. M46 contains more than 100 stars of fairly uniform brightness. Near the northern edge of M46 is a planetary nebula (NGC 2438) that can be seen well in medium to large telescopes. (The planetary nebula is actually closer than the cluster.) Messier 47 contains an interesting mixture of bright and dim stars. The distances to M46 and M47 are 5,300 and 1,600 light years, respectively.



Find the Winter Hexagon, which is composed of six of the brightest stars in the sky--Sirius, Procyon, Pollux, Capella, Aldebaran, and Rigel. On midwinter evenings, these stars form a large oval stretching from low in the south to nearly overhead. As spring begins, the Winter Hexagon sinks toward the west. The constellation Orion and its bright red star Betelgeuse are inside the Hexagon.

For this star hop, find Sirius, the brightest star in the sky.

Look 5 degrees to the northeast of brilliant Sirius to find a much dimmer star, 4th magnitude γ Canis Majoris, which represents the eye or head of the big dog. From γ , follow roughly this same line twice as far to the northeast and you will arrive at the location of M47. There are no bright stars in the vicinity, but fortunately M47 is bright enough to be easily spotted in binoculars or a finderscope. After viewing M47, move slightly more than 1 degree to the east to find M46.



Star hop from www.skyledge.net by Jim Mazur. Star charts created with Cartes du Ciel.