

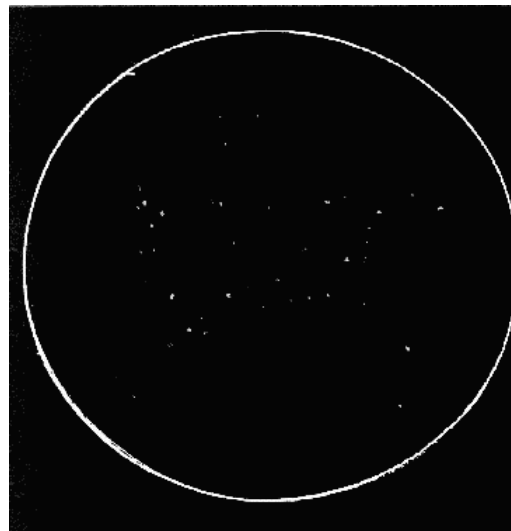
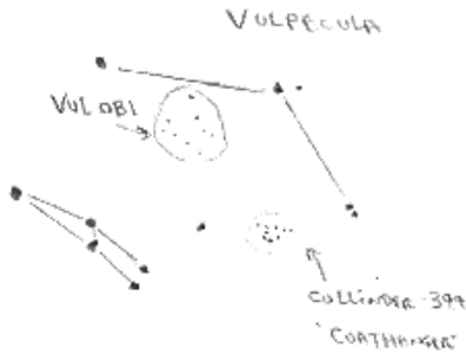
The Observer's Challenge Objects

Submitted by Larry McHenry, Pittsburgh, PA.

September: NGC 6823/20 – Open Cluster/Emission Nebula – **Vulpecula**; Mag. V=7.1
RA: 19h 43m Dec. +23° 18' Cluster Size 7.0'; Nebula Size 40' x 30'

NGC6820 (nebula) and NGC6823 (open cluster): Located in the summer constellation of Vulpecula, 'The Fox', NGC6820/6823, (also known as SH2-86 and Collinder-404 respectively) is a somewhat sparse young star cluster embedded within an HII emission region. The cluster shows several nice star-chains, even in short (<10 seconds) exposures, but the surrounding nebula requires longer exposures and may need to use a filter. Several large dark spires/pillars display, similar to the Eagle Nebula – M16. The entire region is a part of a larger OB-Association of stars known as Vulpecula OB-1.

Visual Eyepiece Sketch: Vulpecula OB-1



09/05/1993: from county park in Pittsburgh, PA, using an 80mm f3 refractor and 32mm eyepiece (10x).

Video-Capture/EAA:



08/05/2013: from AstroBlast Star Party at the ORAS Observatory in Two-Mile Run State Park, PA, with a 6" RC @ f5 on a Gem Mount, using an analog video-camera & IR filter @ 25 seconds, unguided.

06/29/2020: from Big Woodchuck Observatory backyard in Pittsburgh, PA. Using an 8" SCT optical tube @ f6.3 on a GEM mount, with a CMOS color camera and Ha/OIII/H-beta narrowband filter @ 120-second guided exposure, livestacked for one hour.