

Howard Astronomical League



December 17th, 2015

Introductions

It was a great year for HAL!
Thank you everyone!



Star Parties and public outreach!

Members Star Party

March 5, 2016

Public Star Party

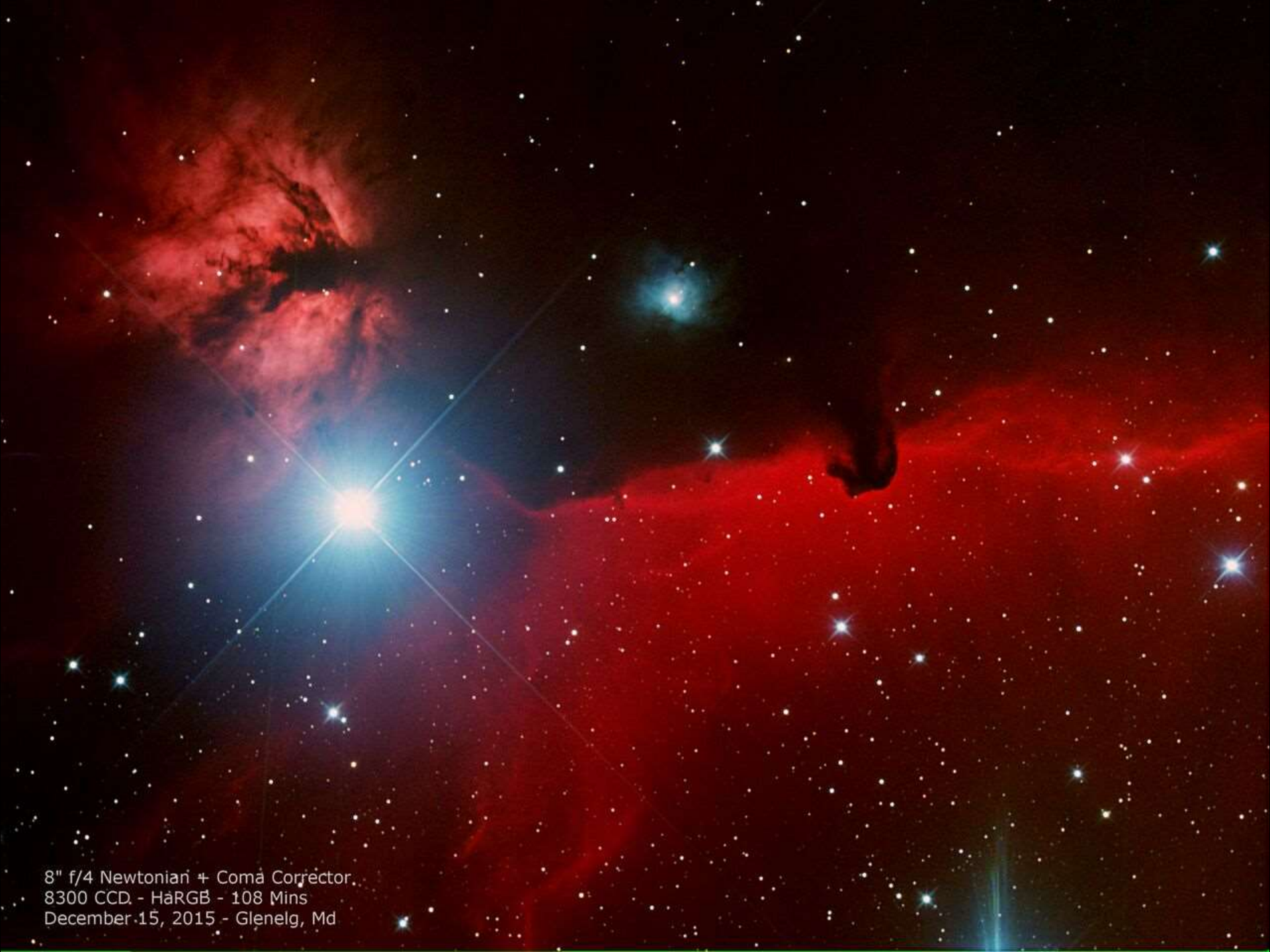
March 19, 2016



**Member's
astrophotos and
sketches**

Mike Krauss

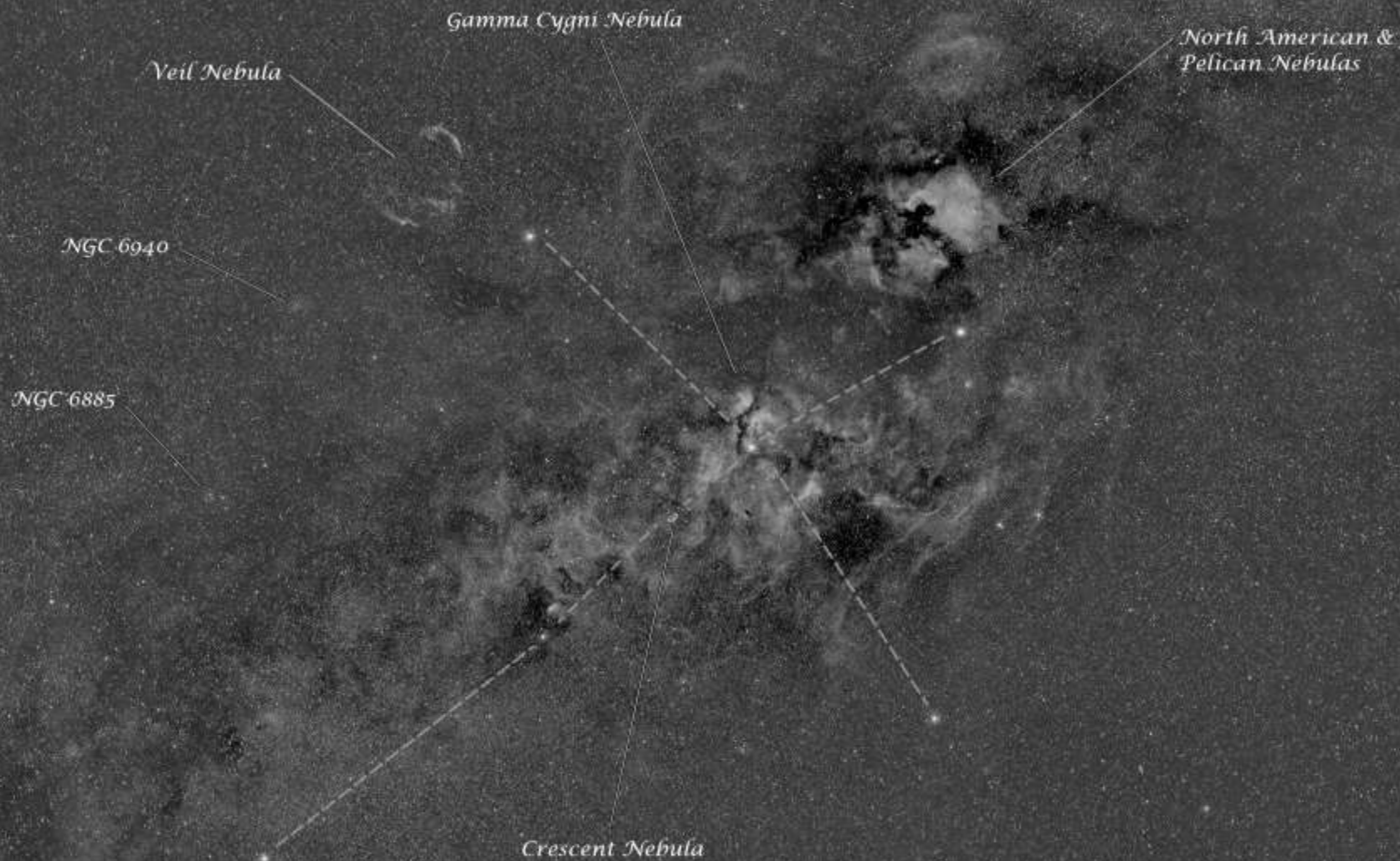




8" f/4 Newtonian + Coma Corrector
8300 CCD - HaRGB - 108 Mins
December 15, 2015 - Glenelg, Md

M31 - Andromeda Galaxy
8" f/4 Newtonian + Coma Corrector
8300 CCD - LRHaGB - 2 Hrs 26 Mins
December 5, 2015 - Glenelg Md





Cygnus in Narrowband (H-alpha)
25 X 240 secs @ iso1600 / modified Canon 6D / 50mm lens
Astronomik 12 nm H-alpha filter
Brad Sheard Carrs Mill Dec 4, 2015

Cocoon Nebula (IC5146)

42 x 180 secs @ iso1600 / modified Canon T5i

Stellarvue SVR102T Carr's Mill Dec 4, 2015

Brad Sheard



Andy Vogel

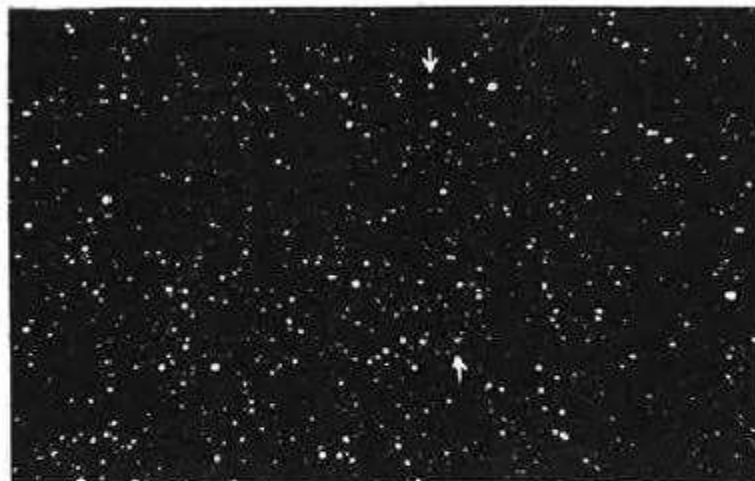
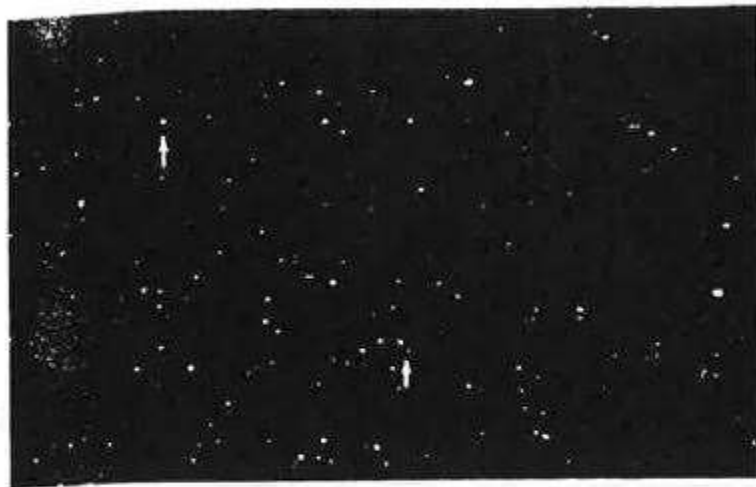




Mare Humorum - "Sea of Moisture"

Herman Heyn

MY FIRST PHOTOGRAPHS IN SKY & TELESCOPE MAGAZINE



Herman M. Heyn's photographs, taken on May 1st (left) and 31st with a 35-mm. camera and no clock drive, reveal the motion of Vesta (indicated by arrows at the top). The other arrows point to Neptune. During May, Vesta was 6th magnitude and about 110 million miles from the earth; Neptune was 8th magnitude and 2.7 billion miles. The brightest star is 2.6-magnitude Beta Librae, about $\frac{1}{8}$ inch from top (north), $1\frac{1}{8}$ inches from the right.



CAVEX
Precision Optical

Latest news from the observatory...

Congratulations to
Ron Schwartz
David Stein
Ken Everhart
Paul Montanaro

Our new CTAs











Dennis Conti
Exoplanets