

The Objective Lens

University Lowbrow Astronomers Monthly Newsletter Supplement

January 2024



From **ADRIAN BRADLEY**. Night sky over the Au Sable River



From **GLENN KAATZ**. I have been wanting to image the Crab Nebula for some time, and I was able to complete it last night. This image consists of 2 hours of 5 min images through Ha, OIII, and SII filters for a total integration time of 6 hours. I'm sure I could have gotten more detail with more exposures, but I'm pretty happy with this result.

Imaging set up was:

Celestron Edge HD 8 inch on a CGX mount. 0.7X focal reducer, Celestron OAG with an ASI174 mini guide camera. Main camera was an ASI1600MM Pro cooled camera. Accessories also included a ZWO EAF and ZWO electronic filter wheel.

Processing was Pixinsight, Photoshop, and RC-Astro Star, Noise, and BlurXterminator.



From **ADRIAN BRADLEY.**



From **ADRIAN BRADLEY**. Albert Sleeper Park.



From **JEFF KOPMANIS**. Taken in De Tour Village on Dec 29, 2023 at 2:34pm through a Celestron 60mm spotter scope with a Baader film filter and a Samsung S20 FE cell phone cam. No camera mount, just hand-held. If you're going freighter watching with a spotter scope, always pack a solar filter!

The busy/angry side of the Sun must be pointing away from us, since this was the only spot visible. The hand-alignment is why the NE corner is shaded out. I don't have a good cell cam mount in spite of owning/trying a few unsuccessfully.



From **ADRIAN BRADLEY.**





From **JEFF KOPMANIS**. John L. Boland and Moon. Taken just N of De Tour Village, MI on the shores of the St. Mary's River on December 29 on the easternmost mainland of Michigan's Upper Peninsula (Drummond Island is the easternmost in Michigan's UP). I like the landscape photo a little more because of the clouds, but the Moon in the portrait photo is better. Both were done with my Samsung Galaxy S20 FE cell cam in Night mode, which in these conditions gave a 5-second exposure.



From **JEFF KOPMANIS**. Moon and Procyon. Taken just N of De Tour Village, MI on the shores of the St. Mary's River on December 29 on the eastern-most mainland of Michigan's Upper Peninsula (Drummond Island is the eastern-most in Michigan's UP). I like the landscape photo a little more because of the clouds, but the Moon in the portrait photo is better. Both were done with my Samsung Galaxy S20 FE cell cam in Night mode, which in these conditions gave a 5 second exposure.



 **Seestar** **M 33**

 **David Cooke / Ann Arbor / 2023.12.19 21:01** **36min**

From **DAVID COOKE**. M33



From **DAVID COOKE**. M31 and M32.



From **DAVID COOKE. IC 434**



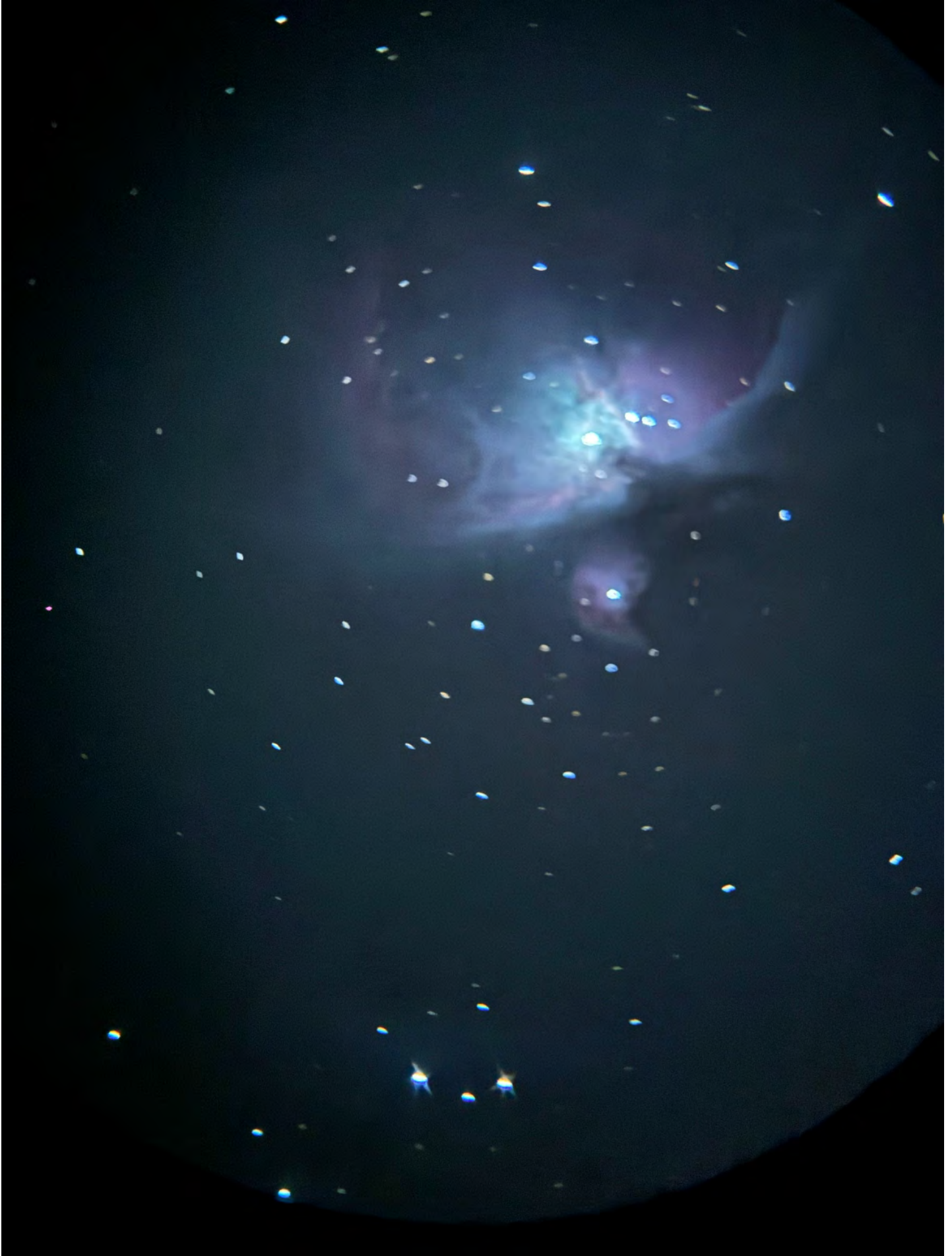
From **MARCUS CLARKE**. M31. This was my attempt at capturing M31 on Dec 18, 2023 with my CS8 no filters, no calibration frames, camera ASI294 30sx150subs, gain 358. Processed with Autostackert and Photoshop. Tracking only, on iOptron GEM28. Used ASIAIR to control camera and mount



From **MARCUS CLARKE**. I captured M42 the same night as M31. However ss 2sec and only 79 subs, everything else was the same as M31.



From **MATTHEW WEST**.



From **MATTHEW WEST**. M42.



From **BRIAN CLOSE**. Moon of Bozeman..



From **AMY CANTU**. Lobster Claw, Bubble Nebula and M52. ASI533MC Pro with Redcat 51.
62 lights @ 240 seconds, 30 darks, flats, and dark flats