

The Objective Lens

University Lowbrow Astronomers Monthly Newsletter Supplement

September 2024



From **AWNI HAFEDH**. I captured 94x5min subs of H-Alpha filter and 289x5min subs of Oiii filter which makes it close to 31.9 hours of integration time.

Equipment used
Celestron 9.25" with Hyperstar Adapter
ZWO ASI2600MM Camera
Astronomik Ha and Oiii filter
iOptron CEM60 mount



From **AWNI HAFEDH**. It has been almost a year since I imaged using Hyperstar and the last time I did it the stars did not look good, I could have fixed it in processing but that is a lot of work. Instead, I 3D printed an adapter that goes in front of the corrector plate that will manage the cables connecting the camera in a U shape and it was a success. Decided to pick some dark nebula as it would be a perfect target to test long exposure at F/2.2 and this target fit nicely in the Hyperstar FoV which was 530mm, I captured 190x3min subs for two nights which makes it close to 9.5 hours of integration time, again that is at F/2.2. So, I was really amazed by the number of stars and the amount of dark nebula that I managed to acquire and of course some nice round bright stars ... I hope you like it.

Equipment used. Celestron 9.25" with Hyperstar. ZWO ASI533MC Camera. Astronomik Lum filter. iOptron CEM60 mount



From **BARRY CHAPMAN**. Heart Nebula.



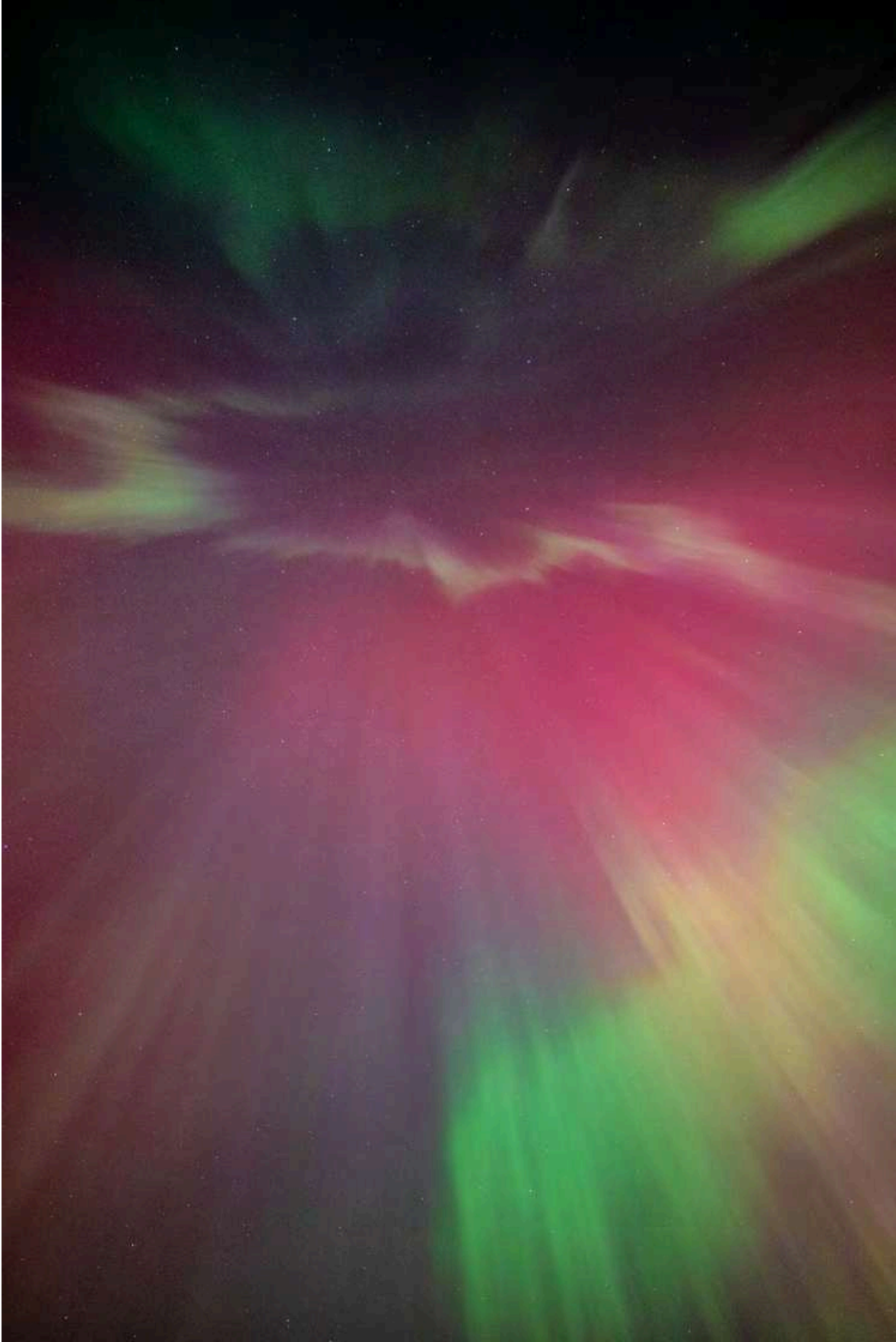
From **BARRY CHAPMAN**. Eastern Veil Nebula. Still trying to work through processing, but this is the result of my first light with my new camera - ZWO ASI2600MC

40x180s @ gain 110, offset 45

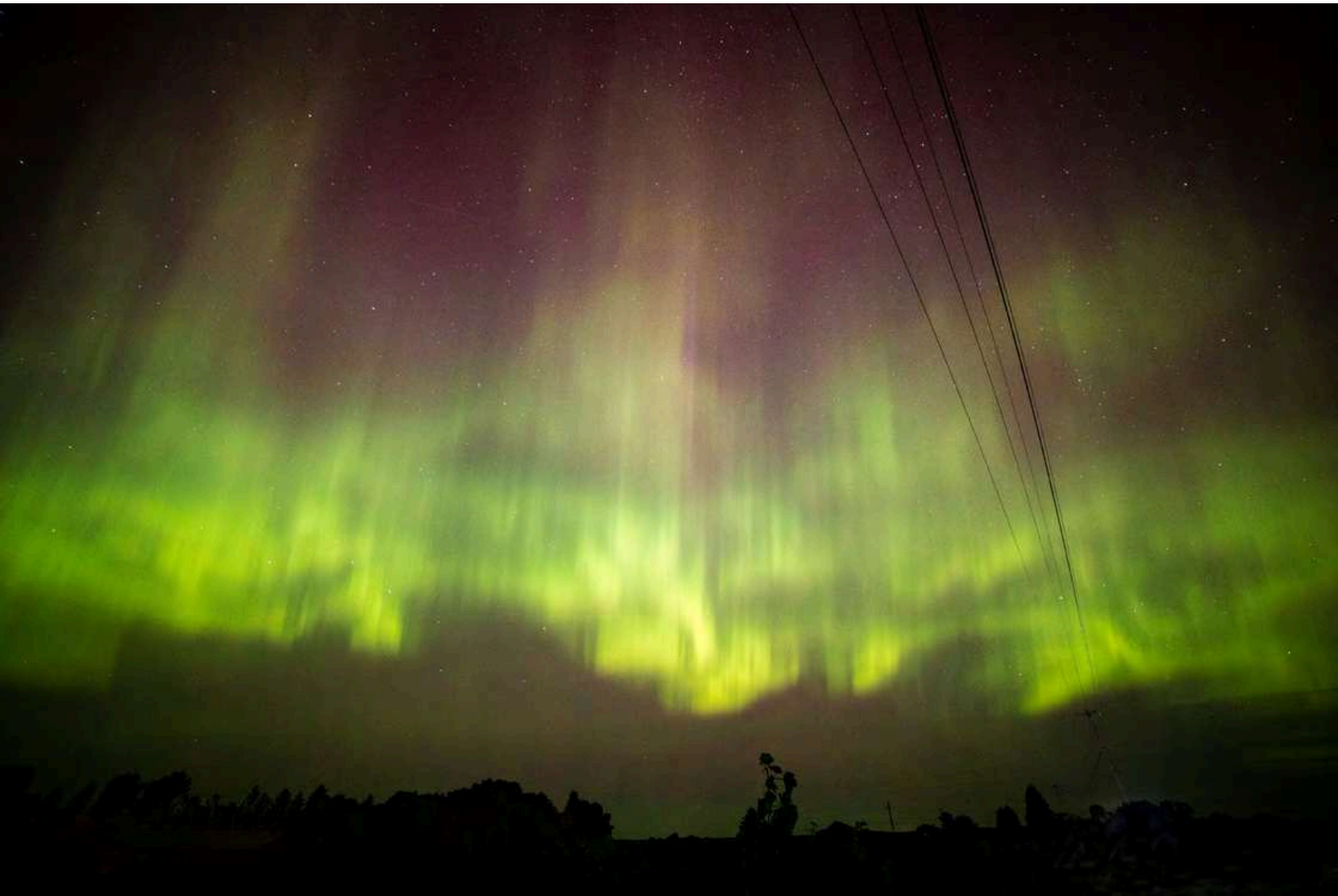
Stacked in DeepSkyStacker, processed in Siril and Photoshop



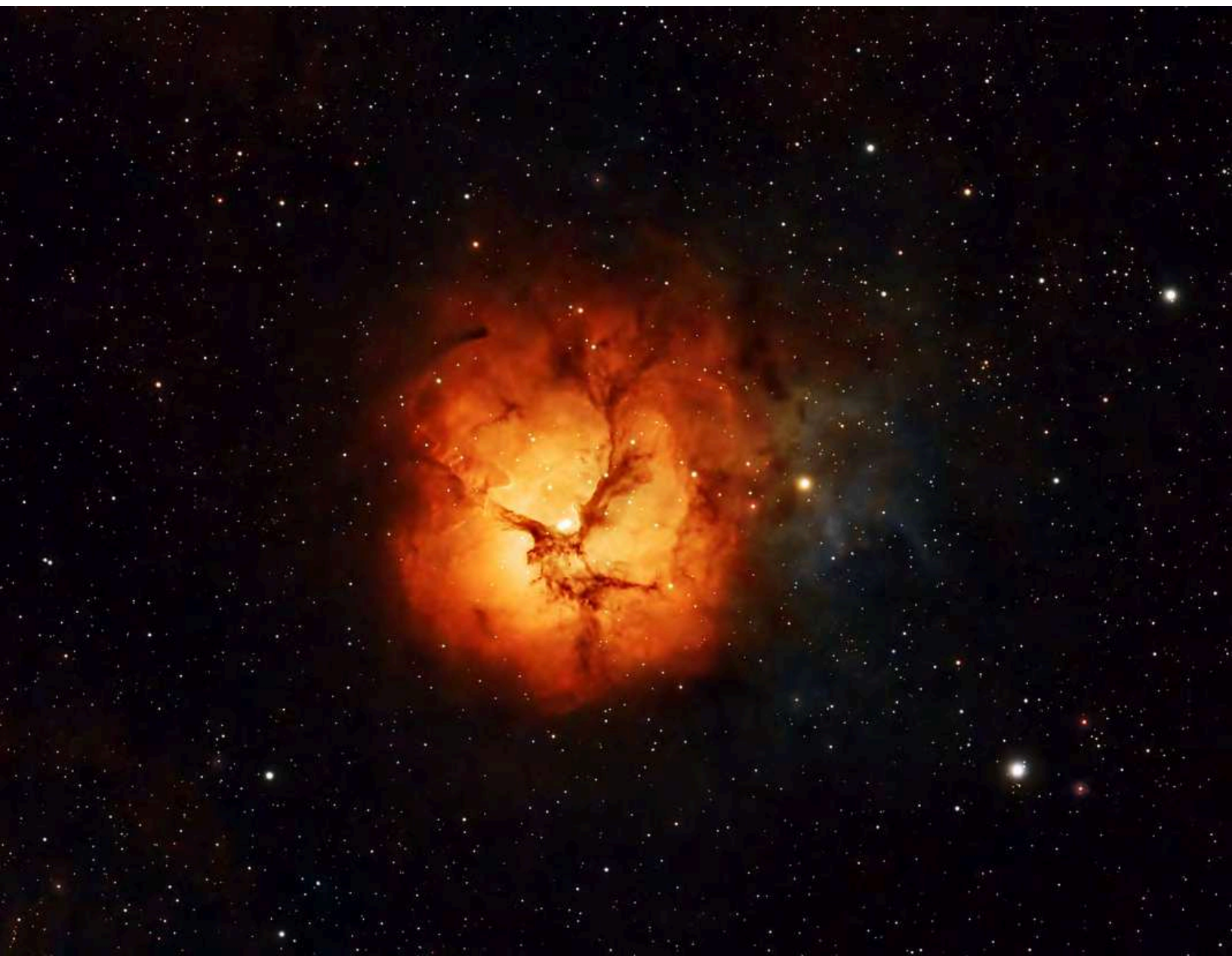
From **DOUG SCOBEL**. Aurora from August 12. Taken from a public boat launch, looking east over the east arm of the bay. Jupiter and Mars are rising low above the horizon, and if you look closely you can see the Pleiades and the Double Cluster as well.



From **DOUG SCOBEL**. Aurora from August 12. Looking straight up at the zenith. Besides the usual greens and reds, there are also some blues and yellows.



From **DOUG SCOBEL**. Aurora from August 12. From a roadside overlook looking NNW. The curtains were in constant motion!



From **GARY NICHOLS. M20**



From **GARY NICHOLS**. Crescent Nebula.



From **GARY NICHOLS**. Helix Nebula.



From **GARY NICHOLS**. Flame and Horsehead Nebulas



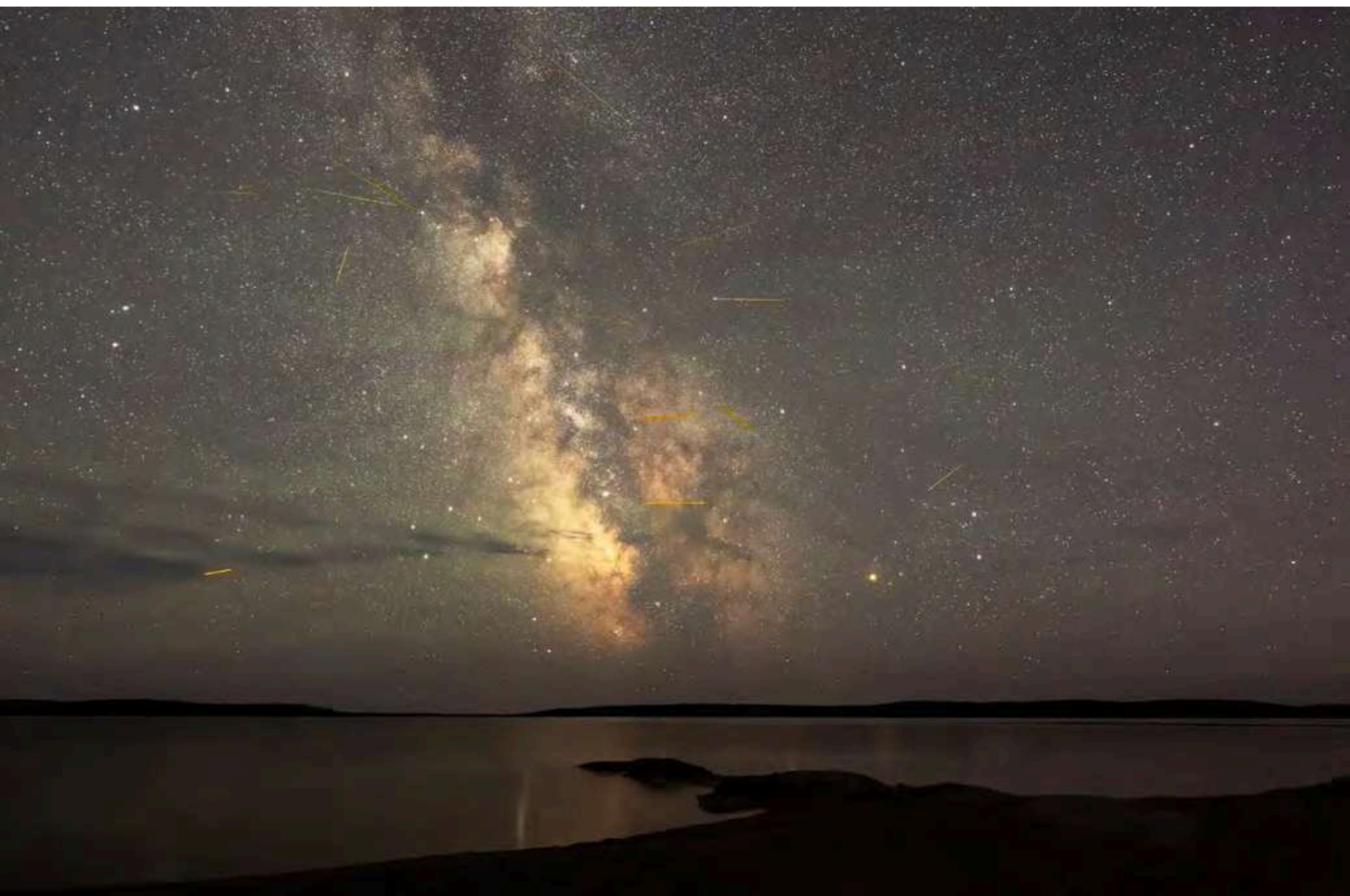
From **DAVID COOKE**. M20.



From **DAVID COOKE**. M31, Andromeda Galaxy



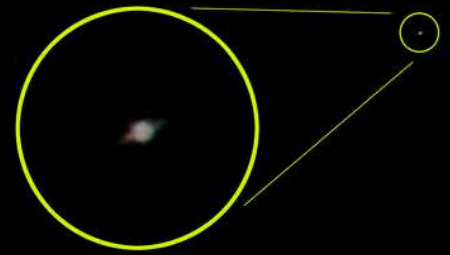
From **DAVID COOKE. C13.**



From **TISA ALLEN**. Milky Way over Lake Superior



From **MATTHEW WEST**. M13



From **DOUG SCOBEL**. I was able to capture the Moon/Saturn conjunction on the night of August 20-21. I took this at 1:47 am on the 21st, as I had to wait for the moon to clear the trees and house on the hill to the east and southeast of our home. By then the moon and Saturn were separated by about a degree and a half already.

This is a single shot taken with my Canon 5D mark IV DSLR and image stabilized Canon 100-400mm lens set to 400mm, hand held. Surprisingly, in the inset you can see that I captured Saturn's rings!

During post processing I reduced the exposure of the moon and increased the exposure of Saturn to balance things out a bit.



From **NORBERT VANCE**. August 11 Aurora.



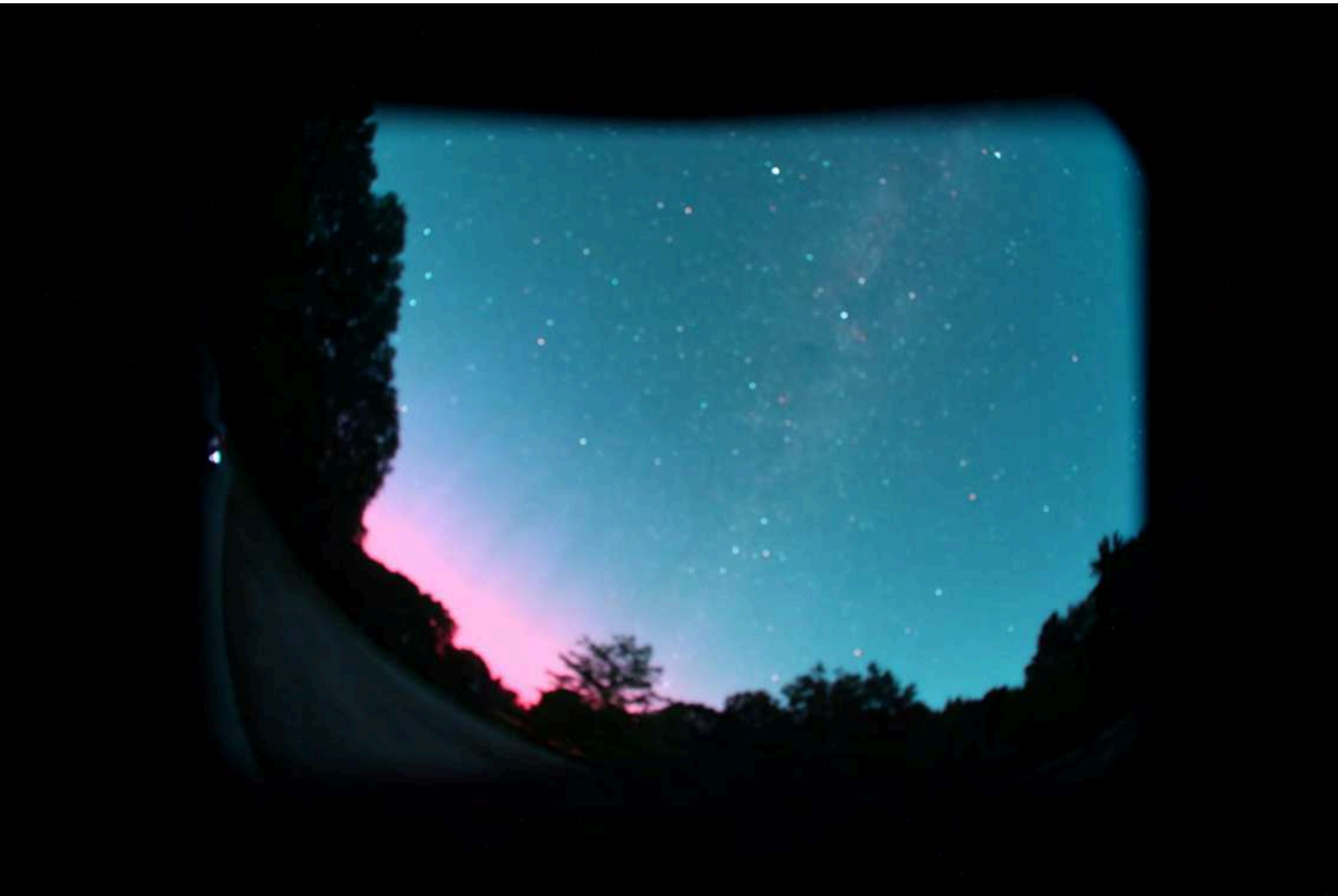
From **NORBERT VANCE**. I am lazy when it comes to imaging with my gear. The faster the better, instant gratification. Little to no software crushing and 9 hour stacks, not now. Two examples: M101 taken during twilight setup shows the background light but also the "Tholian Web" of satellites that can affect so many shots.



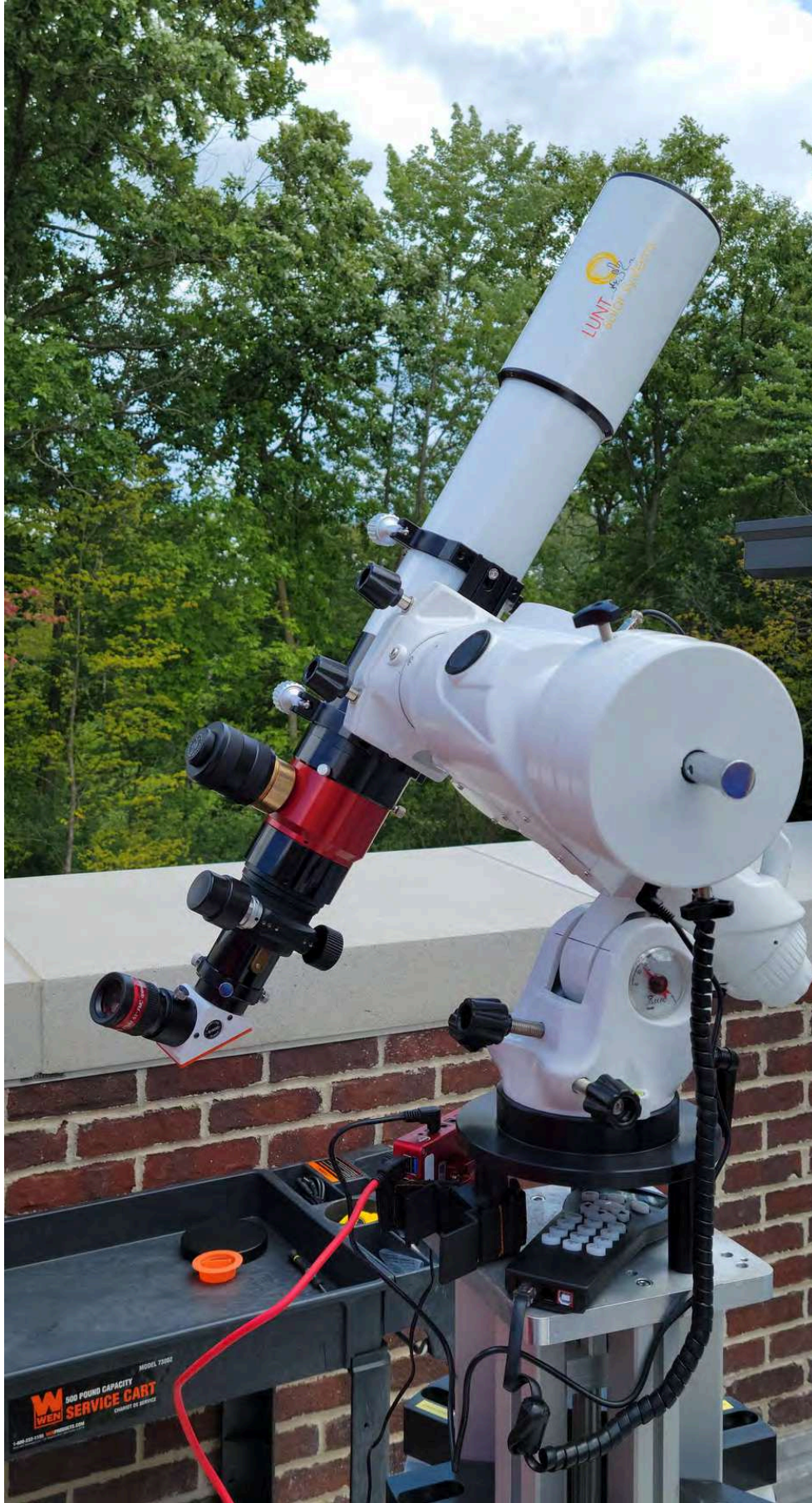
From **NORBERT VANCE**. I got a bright one streaking right across an M31 pic but managed to eak out another untouched, unprocessed pic of M31 with my 8-inch RASA/ZWO 294Pro in just 5 minutes using SharpCap 4.1 Livestack. I set it up and walked away for a few minutes to come back to this photo. Never did that with film!



From **NORBERT VANCE**. I marvel at how the RASA picks up so many stars in just seconds with this simple Double Cluster color shot in 7 minutes. I call it Ron Popeil astronomy... "just set it and forget it".



From **SUBRAHMANYA S YELLAY**. Aurora and Milky Way. CanonRa
Iso1600, F2.8
Bulb mode at 3 minutes.



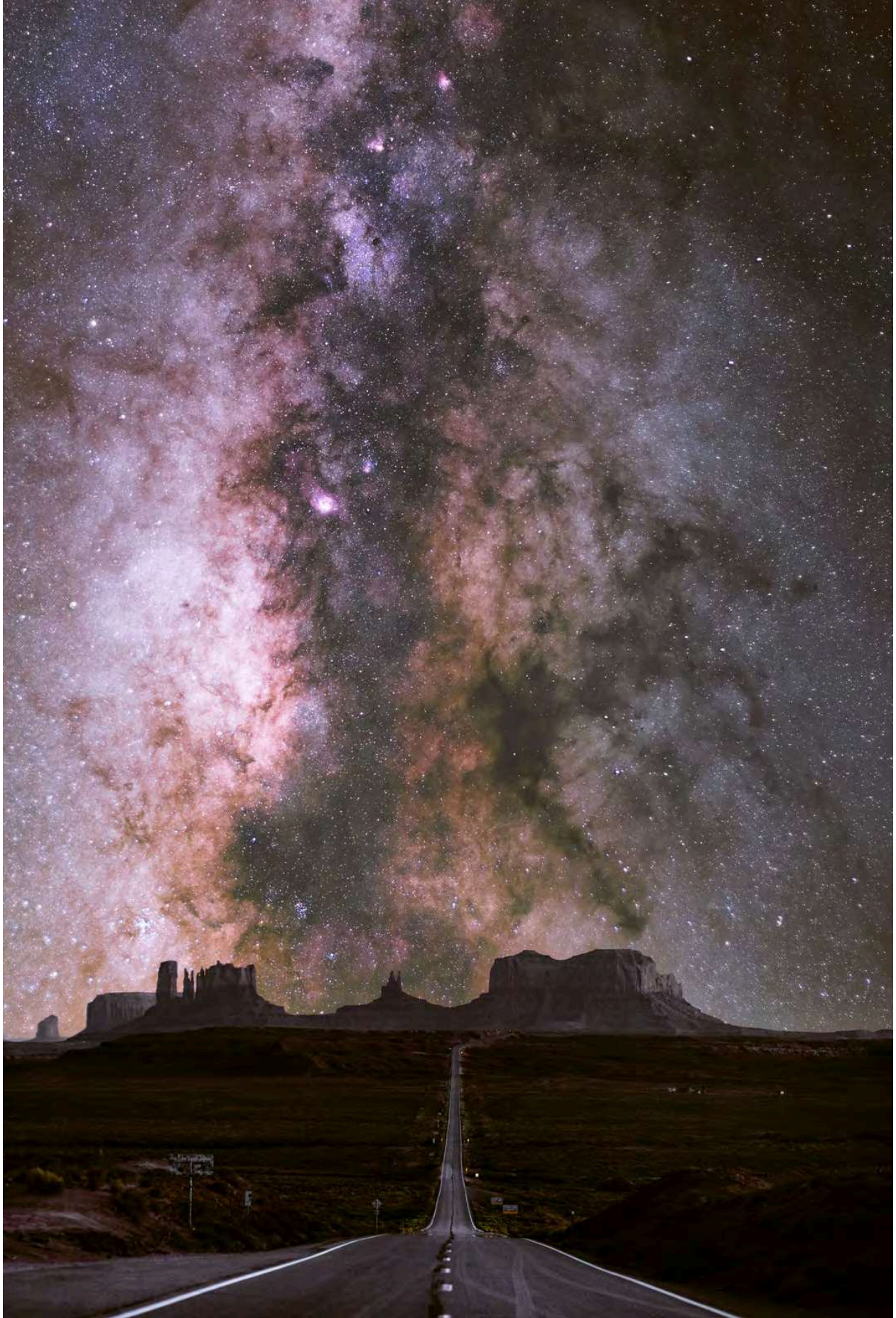
From **JACK BRISBIN**. I got to view the sunspots on Sunday in between clouds..., including the large and smaller spots using the new Lunt 130 universal telescope. This is one of the telescopes installed at the new Detroit Catholic Central High schools new Science Center, I spent my time at the Observatory....great scope..



From **DONOVAN DREW**. Aurora from August 11-12.



From **AMY CANTU**. The Great Chamber, near Kanab, UT



From **AMY CANTU**. Forrest Gump Point near Monument Valley.



From **AMY CANTU**. Green River Overlook, Canyonlands.