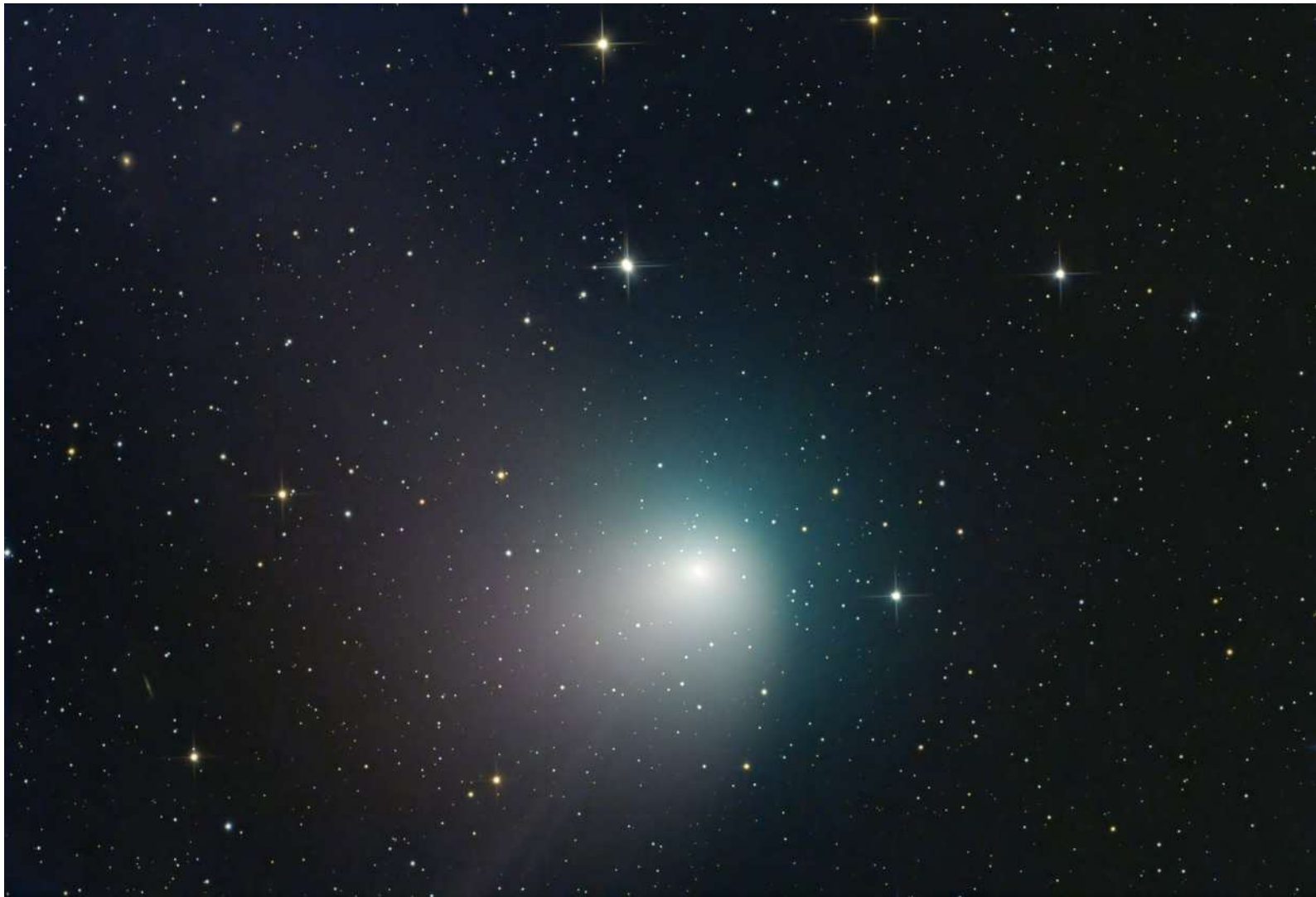


The Objective Lens

University Lowbrow Astronomers Monthly Newsletter Supplement

February 2023

Frozen Observations



From **DONOVAN DREW**.



From **ALEX SWARTZINSKI**.



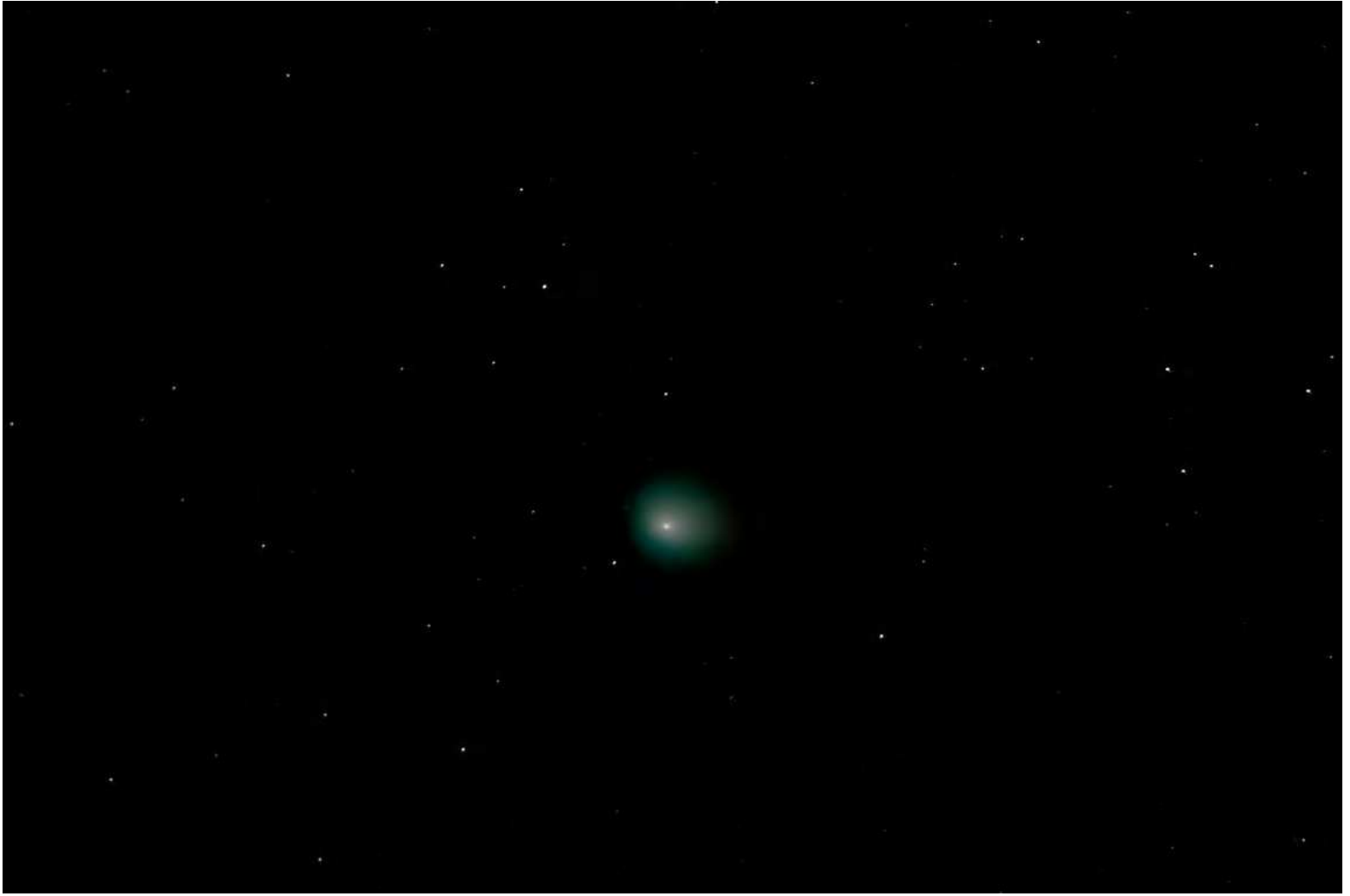
From **ALEX SWARTZINSKI**.



From **JACK SPRAGUE**. "Jan 14, 2023. 28F. "Cool Down" before a session. ES 127 fcd-100 CF mounting a 32mm W.O. 120mm guide scope, an ASI 120mm guide cam, an ASI AIR Plus computer, a ZWO EAF mounted on the coarse focusing knob, an ES 0.7 reducer lowering the f/l from 956mm to 680mm and shifting the f-stop from f7.5 to f5.25 (which is a HUGE help given our limited viewing opportunities), and lastly an IR sensitive ZWO 462MC camera which actually does a nice job for DSOs despite being advertised as a planetary camera.

Mount is a Skywatcher EQ6-R which has been heavily modified. Still, I tape the USB type-B control cable in place as shown. Electrician's tape NOT gaffer tape. Better cling in the cold this way.

The deck is structurally isolated from the house so is a nice stable platform provided I'm not stomping around checking cables. Scope is oriented "N" in the photo. I don't making a habit of shooting over my roof when the moon is out.



From **DMITRI TSAHELNIK**. Photo and video of Comet C/2022 T3 (ZTF).

Check out the video here: <https://youtu.be/xZpgr03p3I>

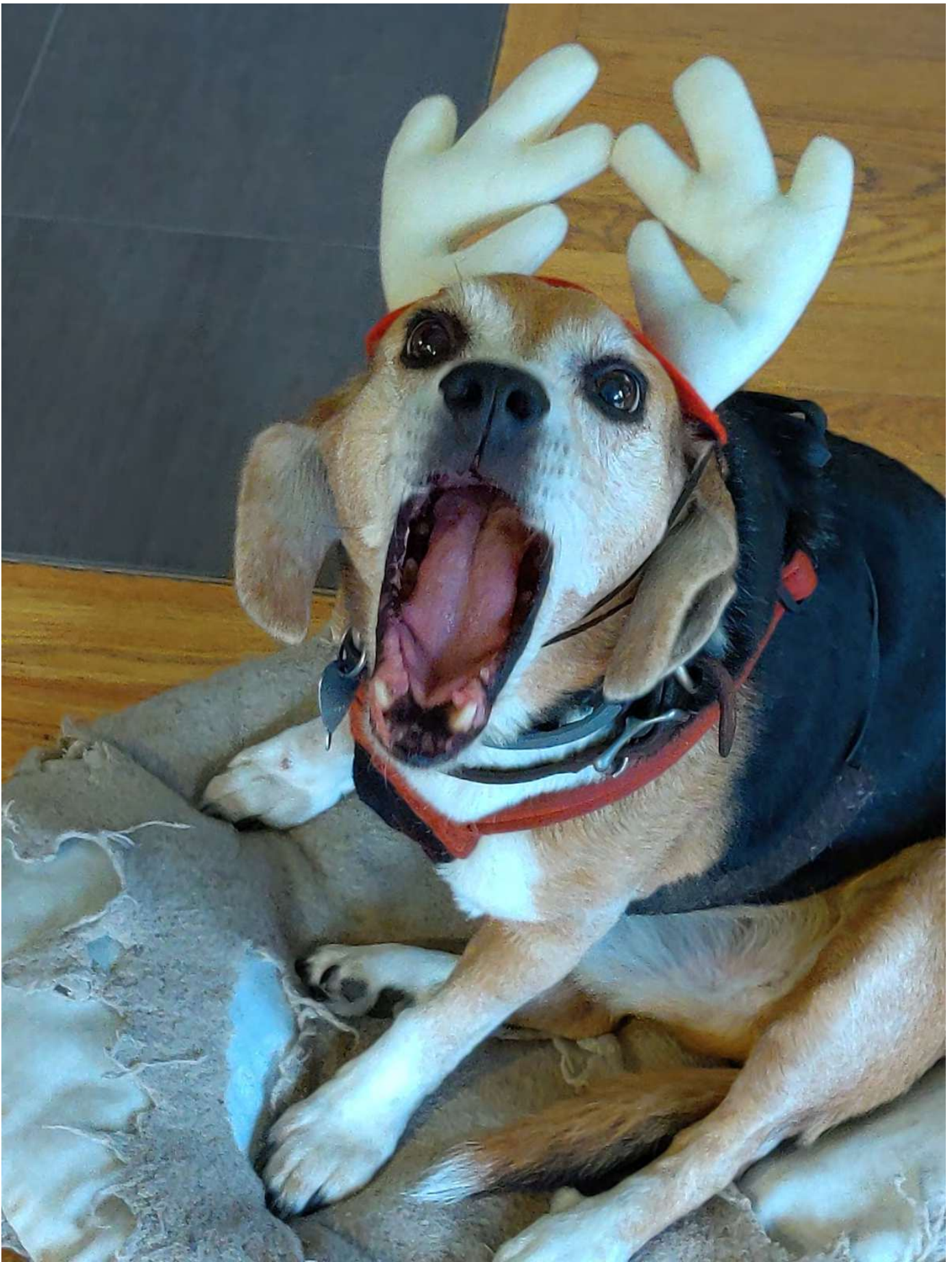


From **JODI & ROY MCCULLOUGH**. I have attached our best effort so far with 2022 E3 ZTF.... Captured with a TEC 110 refractor on an AP900 mount, Canon R5 camera, 11 images at 20 s each and 3200 ISO. Processed in Images Plus. I had over 120 images but the technique we are currently using does better if there is some space between the stars so I only used every 12th image. This was done between 10:30 and 12:00 midnight when the clouds rolled in. It would be better higher in the sky with no moon but we take what we can get.



From **JACK SPRAGUE**. M1 - The Crab Nebula captured after midnight early on 1/15 with the ES OTA displayed as the observing gear. Temp: 21F.

Only 1hr of integration using 300sec subs lightly processed with AstroToaster. This is biased towards the IR spectrum and I have not applied the Hubble palette as I see color poorly.



JACK SPRAGUE. Here we have Lou the Foxhound (an observing partner) objecting the the Thanksgiving week "cloud-in" which prevented any sort of EAA demonstration for our house guests. He might be objecting to his holiday observing headgear. Jury is still out. He did make a lot of noise about his disappointment. I might have made more.



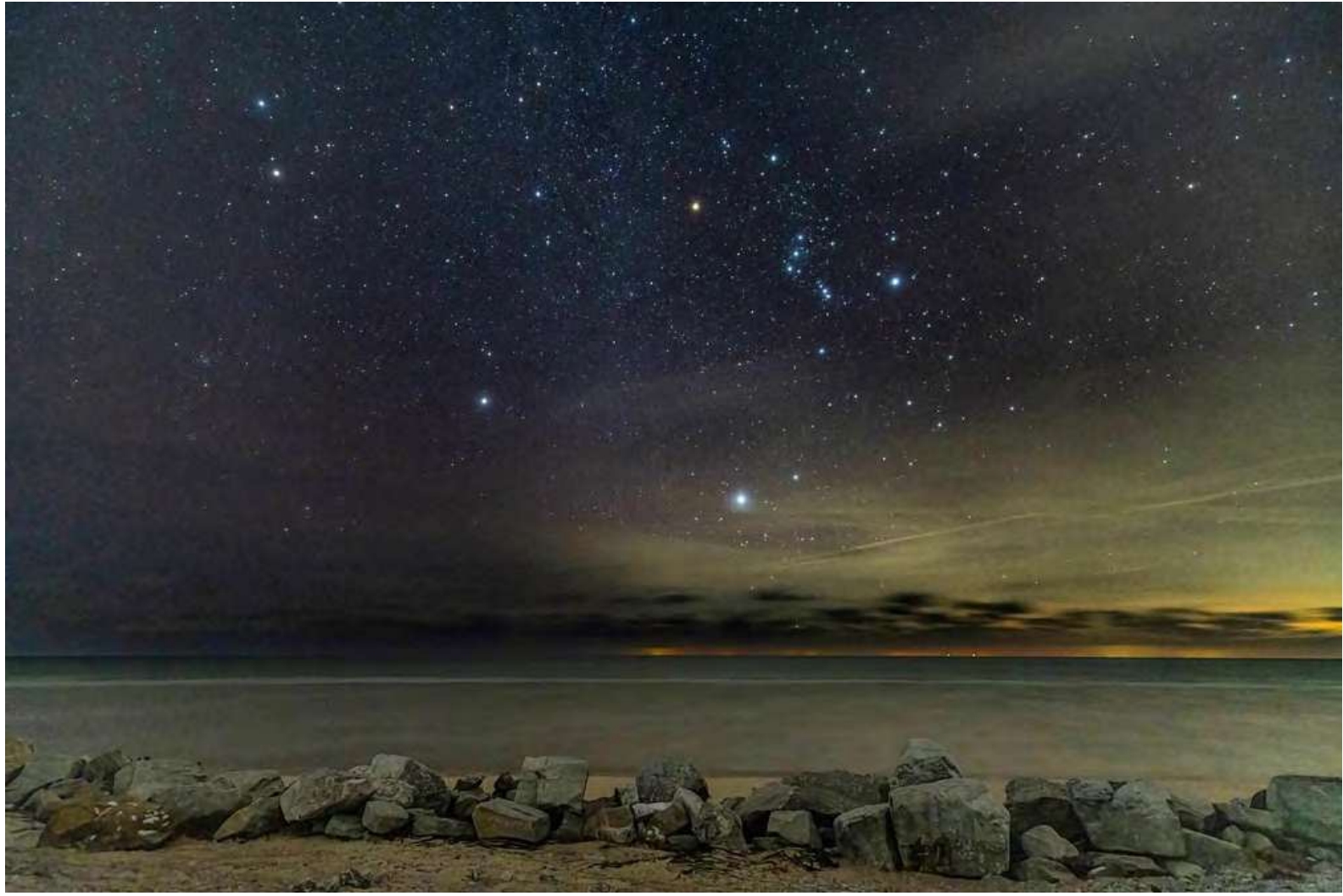
From **AMY CANTU**. This dude joined me at my observing spot in the backyard. He was about as successful as I was in seeing through the never-ending clouds. (Note that nice warm blanket in the chair.)



From **AMY CANTU**. Frost-bit Redcat.



From **ADRIAN BRADLEY**. Location of Comet C/2022 E3 (ZTF) Taken 1/16.



From **ADRIAN BRADLEY**. Tawas Point State Park, Saginaw Bay



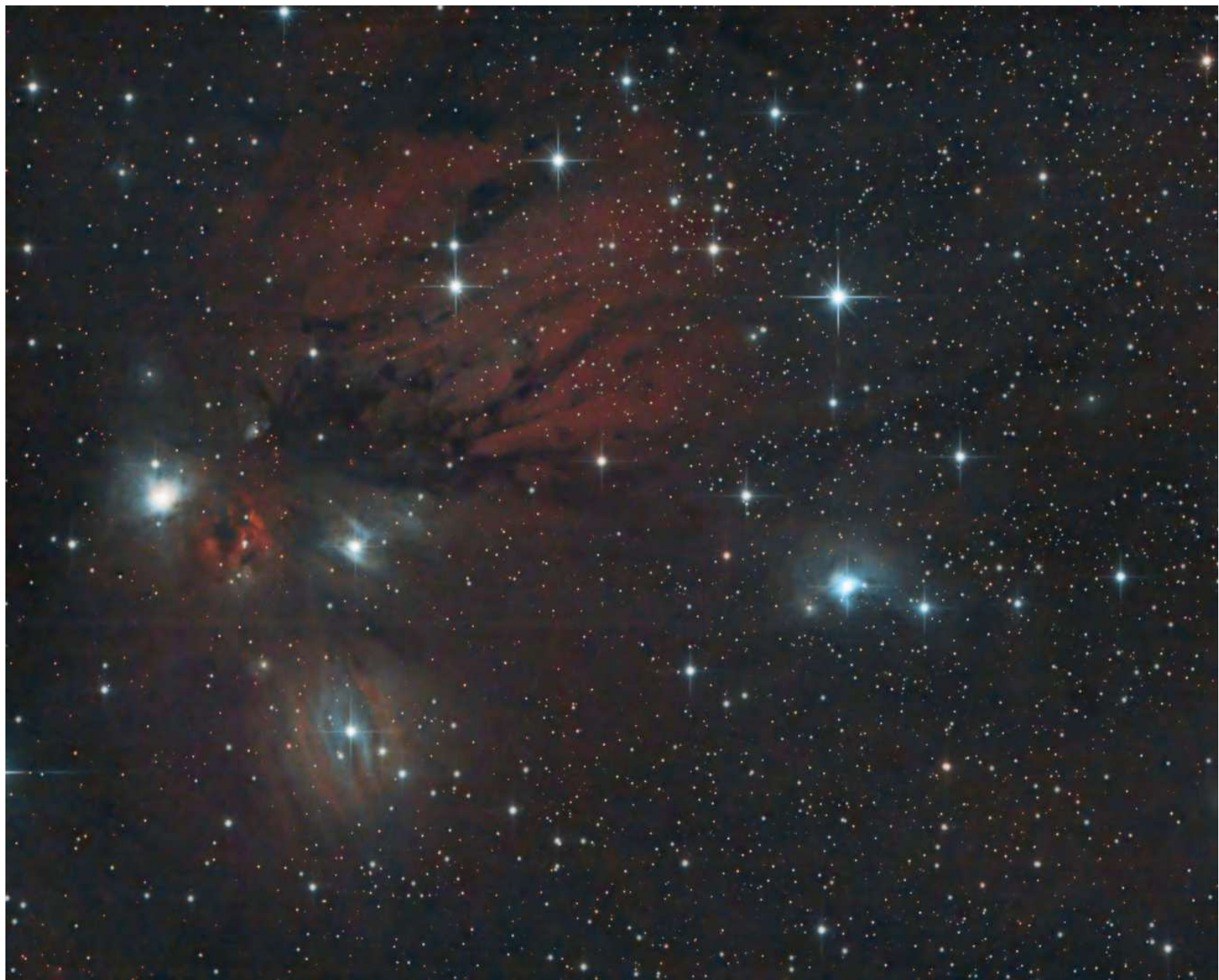
From **AWNI HAFEDH**. Celebrating the near bypass comet, and thanks to PixInSight new CometAlignment process that came out recently, I decided to re-process my Neowise comet data back from July 2020. It was a beautiful trip to capture that comet, back then we were a few months into COVID period so no traffic and everyone was staying home. I left to Pointe Aux lighthouse at around midnight, I got there around 3am and the comet tail was barely visible on the horizon, so I setup the Canon 6D with 135mm on a tracking mount and also had my Olympus mirrorless camera to capture a wide field timelapse.

This was a very tricky data to process in the first place, because it was too close to the horizon and Aurora was also active that morning, but with the new techniques that I learned and acquired during these years, I gave it a try and I really wasn't disappointed.

I ended up capturing 158x15sec subs at F/2.3 of the comet and processing was mainly done in PixInSight and Luminar4, the stars were added back from a single sub where the Aurora was visible and that is what the reddish band was.



From **ADRIAN BRADLEY**.



From **DONOVAN DREW**. LBN 999. Not my best work with some stray light causing issues. An object this faint needs a longer exposure and integration time. I would have used a different filter too but the moon was an issue. Anyways this nebula is between Orion and Monoceros. This is 200, 120s subs captured with an ASI294mc-pro looking through an 8" F5 Newtonian on a Celestron AVX. ZWO duoband filter was used.



From **AMY CANTU**. Kemble's Cascade. 250mm. ASI183MC Pro



From **AMY CANTU**. Comet C/2022 E3 (ZTF) 250mm. ASI183MC Pro