

Green Bank StarQuest: July, 2026

With July's new Moon, it was time to once again make the journey down to the mountains of central West Virginia for the 21st Green Bank Star Quest starparty. Fortunately, all the rumors going around last year that the radio observatory was going to be mothballed did not happen, and the starparty was on. This astro-camping trip would be one where I would be totality dependent on my solar generator and panels for power on the field. We also weren't allowed to use our microwaves due to the radio interference they cause, so I would be using my Keurig to heat water for breakfast. Another aspect of this party is it takes place in a national radio quiet zone where there's no cell phone coverage, thus no internet on the camping field, which made it impossible for up-to-the-minute weather and smoke reports. This year, a group of us from ORAS planned to make the event.

Tuesday 07/14/2026:

Up early for making the drive down to the Green Bank Star Quest 2026. Wanted to get an early start, as it was going to be a hot day as another 90+ heat wave was developing in the region. After a few last minute preparations, I was on the road south by 8:30am. Except for occasional orange "cone flowers" sprouting along the way, the drive was uneventful. Stopped at Buckhannon WV, just off I79, for gas and lunch. The last 30 miles of the trip was fun going up and over a large mountain on Rt92, complete with several horseshoe curves!

Arrived at the radio observatory a little after 2:30pm. (Hit a couple of stopped traffic road construction that slowed me down). Turning into the facility, I drove past the Visitor's Center, along with the Janskey and Reber telescopes. Making the left turn at the far gate, I headed down the gravel road into the camping / observing field, where I spied Denny H along the main road, close to the white barn and pulled up beside him to his west. We had decided it would be a good spot for viewing the southern horizon. Plus, we had a great view of the giant 300ft Green Bank Telescope! Dean S, Dean M, and Geoff C were set up over in the NE corner of the observing field.



There were probably around 40+ campers then on the observing field. My apologies to everyone, due to the hot weather during the day, and the full program schedule in the Visitor's Center, (with air-conditioning), where I spent most of my time, I didn't do my usual walkabouts so there's only a few field photos to share in this report.

After greeting Denny, I spent the next several hours setting up camp and my solar generator and panels, and then assembled the astronomical equipment: 8" Celestron SCT optical tube @ f6.3 with a ZWO ASI294MC-Pro camera, ZWO filter wheel & focuser, on an Atlas EQ GEM mount, along with a piggybacked Sky-Watcher EVO50mm refractor with a ASI294MC camera, and a 60mm Antaries refractor guidescope with an ASI120MC camera. Also my AllSky cam, a ZWO ASI224MC camera & fisheye lens in a DIY dome attached to a tripod. And my SeeStar S30-Pro smart telescope & field tripod.



It was hot sweaty work in the 90 degree temps and I went thru a number of Cokes and had to refill the water bottle multiple times. In the middle of setting up, Gary S arrived and after visiting with Denny and I decided to go over on the field by his brother. Finally a little after 6pm, I had everything ready and pulled out several slices of frozen pizza for dinner. That was the only perishable item in the camper fridge so I turned it off for the night to conserve power.

At sunset, I took a stroll over to visit the ORAS gang, Dean M, Dean S, Gary S, Geoff C, bringing along the Snickerdoodles cookies. Also stopped by Dave H's camp. With additional folks arriving during the late afternoon, there were probably about 60+ amateurs now setup on the observing field. A much larger crowd than last year. Once back at camp, I relaxed in my chair till dusk. Then headed indoors to change into jeans and a dry shirt. Back outside, I powered on the main scope, assembled the rear hatch blackout tent, and waited for Polaris to shine. (AllSky cam already running).

The sky wasn't looking great. While it was clear, thick Canadian wildfire smoke was overhead obscuring the stars and dulling the usual brilliant white Venus in the west.



Finally Denny and I were just able to barely see the North Star visually. Fortunately, PoleMaster could see deeper. After several attempts, with my regretting setting up my scope to the side instead of normally straight back from camper rear making it hard to see the monitor screen while adjusting the mount, I achieved polar alignment. Focusing was another pita, as the scope location again impacted the process, along with the haze made it difficult to find a bright star.

Gave Denny an assist with his polar align. Once my main scope was ready for EAA, I threw out my faint-fuzzy observing plan for the night and instead went globular cluster hunting, as only bright Messier clusters were cutting thru the smoke.

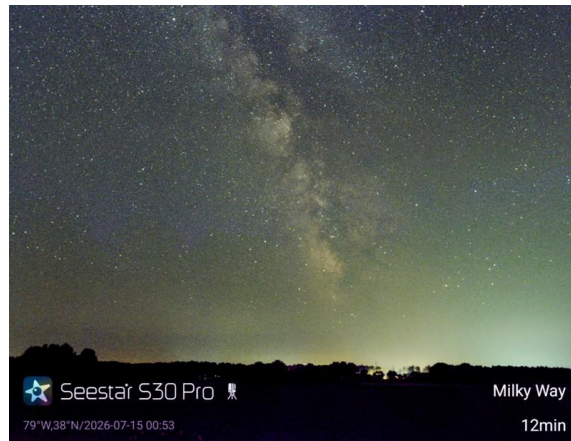
Here's M22, M3, M13 using the 8" SCT. Tried for M4, but it was buried in the haze.



(8" SCT @ f6.3 on an Atlas Gem, ZWO ASI294MC Pro camera with L-Pro filter, 15 second subs, dark & flat calibration, PHD guided, livestacked using SharpCap for 15 minutes).

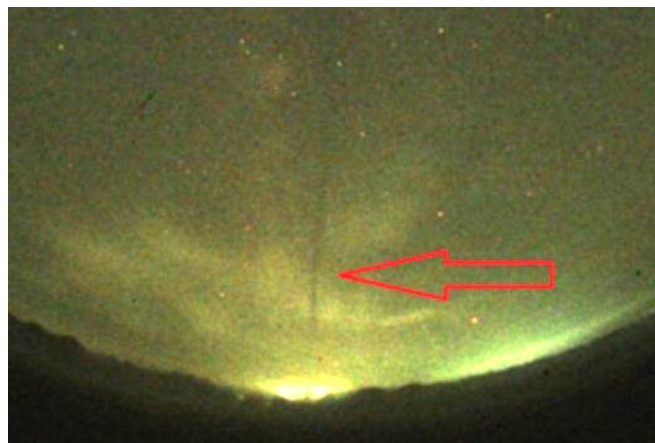
A little before midnight Dean S dropped in. He hadn't bothered to try any imaging with the terrible transparency, but Dean reported that Geoff was shooting M8 & M20 and getting good results, and Gary had finished polar aligning. Most of the folks on the field had called it a night with only a few trying to get in some observing. Around 1am, fog began building on the field and the scopes became very dewy.

With the Milky-Way dimly shining thru thinner breaks in the overhead haze, I took a break from clusters to power on the S30-PRO and attempted several 8k Milky-Way mosaics in alt-az mode. The southern sky was nearly wiped-out by the smoke, and accentuated the light-domes to the southwest. (the red-lights on the right of the AllSky are airplane warning lights on the GBT).



(SeeStar S30-Pro, 60 second exposures in Alt-Az mount mode / 3mm Milky-Way Mode stacked for 12 minutes, IR filter, darks & flats applied internally then AI enhancement applied in-app)

Stopped over to visit Denny, got dripped on from the dew while I was entering his blackout tent, lol! He was imaging a bright LBN Ha nebula in Cygnus. Outside, the fog was causing an interesting light effect with the light dome to the southwest, casting a long dark shadow into the sky. Pretty Cool!



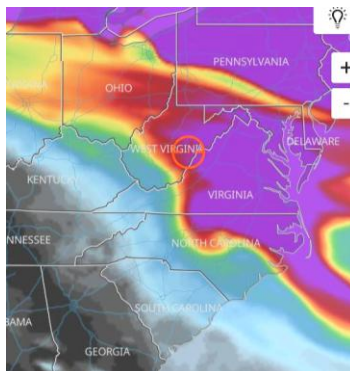
With the haze thickening, I called it a night around a quarter till 2am. Powered down the scopes and covered up. Then disassembled the blackout tent. In bed by 2:30am.

Wednesday 07/15/2026:

Woke at 9am by a warm camper. Overnight the temp had dropped down to 58 deg and it was almost chilly in the camper. But with the sun up, that didn't last long. Karrie K, a new club member that we met last month at CS, arrived and setup her camping & imaging tents next to my camper. Visited with her, Denny and Geoff who stopped by. A little before 10am Denny drove Karrie and I up to the visitor center and registered. Met a number of CAAS and KVAS folks that I knew, including Connie A, Caitlin A, John D, and others from the hosting clubs. According to Connie, they had around 120 attendees registered on the first day, a record for Star Quest! Gave Denny and Karrie a tour of the facilities. Met several folks, Ed and Jim. Also Dean M was there chatting with the AstroWorld vendors. Checked out the raffle prizes and vendors, including Dave H, the Meteor Man, with Tom & friend setup in the atrium. We then headed back to camp.



Back at camp, the solar panels were recharging the solar generator nicely. Outdoor temps were already in the low 80's. Another hot day in store. Had brunch and then a short nap before hitting the showers. Afterwards, I drove up to the Visitor Center, (too hot to walk the trail), and visited with the folks working registration, then dropped my raffle tickets in a few prize boxes. Headed into the science center and got online to check the forecast. It was going to be clear skies for the next several days, unfortunately, the smoke map showed us under heavy wildfire smoke thru the weekend. I'll have to re-adjust my planned deep-sky targets.



Ran into Roxanne K as she was arriving with her camper trailer, and a little later Rich D, so I took them for a quick tour, and showed Rich where the Internet connection was located. Also met John D's neice, Hanna from Louisville. Karrie was also at the center cooling off in the AC. I finally headed back at camp and killed a little time reading, then Denny and I headed up to the cafeteria at 5pm for dinner where Karrie joined us. Chicken fried steak, gravey and mashed potatoes, yum!

Back at camp, we loitered in the shade until time to drive back up to the Visitor's Center for the 7pm keynote presentation at the main auditorium. There we joined Gary S and Dean M inside the auditorium. CAAC organizers John T and Connie A did the introduction of the evening Keynote, Dr Tony Remijan, the GB facility Director, on detecting molecular life in space. A very educational and entertaining presentation! Space Cows are the answer to everything!



Afterwards, we headed back to camp, where I uncovered the scopes, assembled the blackout tent and prepped my observing notes. The sky was hazy from the wildfire smoke, but Karrie and Denny, and I were going to make the best of it!



Geoff C stopped by to say hello. Later at dusk, Denny and I walked over to visit with the rest of the gang, bringing chocolate chip and snickerdoodle cookies. Dean S was planning on imaging the Eastern Veil Nebula, NGC6990, in Cygnus. At dusk, the sky looked surprisingly clearer than Tuesday night.



But it was still too hazy for doing Dark Nebula, so I got out my June 2026 Sky&Tel and began working deep-sky objects in Aquila from the observing article starting on page 34. First up was the diminutive globular cluster NGC6760, shining at +9.8 mag, and is about 24,100 light-years distant. The globular was resolvable with my EAA setup and displayed several steller 'arms' coming off of the core. Here's the observation:



(8" SCT @ f6.3 on an Atlas Gem, ZWO ASI294MC Pro camera with L-Pro filter, 15 second subs, dark & flat calibration, PHD guided, livestacked for 15 minutes).

I then thought to try a face-on spiral galaxy, NGC6814. This small +12th mag galaxy is embedded within a rich Milky-Way star-field, which combined with the overhead smoke gave it a yellow-red appearance. NGC6814, located about 75 MLY, is a Seyfert galaxy and has an active galactic nucleus (AGN), containing a supermassive black hole. The galaxy displays a bright core and nucleus, along with multiple spiral arms. Full FOV & cropped.



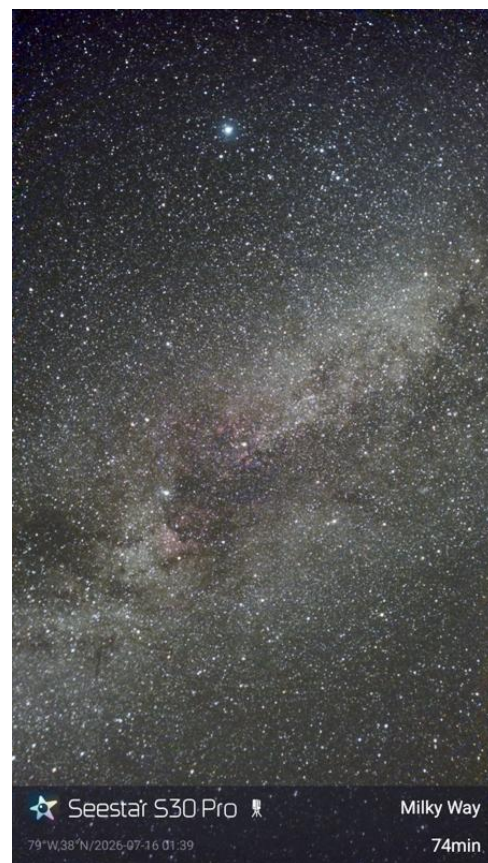
(8" SCT @ f6.3 on an Atlas Gem, ZWO ASI294MC Pro camera with L-Pro filter, 180 second subs, dark & flat calibration frames, PHD guided, livestacked using Sharpcap for 30 minutes).

While the 8" SCT was working, I also had the SeeStar S30-Pro busy, first trying out its new 180 deg 8K Milky-Way Horizon mode. Wasn't too impressed, though that probably was due to the sky transparency conditions. I'll need to try this feature again under better skies. Here's the observation below, which includes the front of Denny's camper, telescope, and red lights from people walking around, lol. Fog began to form on the observing field.



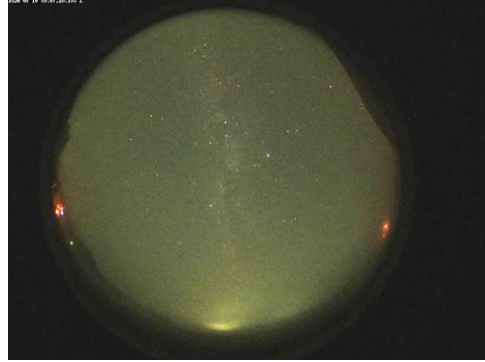
(SeeStar S30-Pro, in Alt-Az mount mode / 3mm lens, 60 second exposures, in 180 deg 8K Milky-Way Horizon mode, stacked for 23 minutes, IR filter)

I decided my best luck with using the SeeStar would be going high, so I pointed the little smart scope up overhead to Cygnus and its bright central star Sadr and the Butterfly-Nebula, IC1318, and began livestacking using the 30mm lens and NarrowBand filter. While on Sadr, I put the S30-Pro into Dual mode, activating the 3mm Milky-Way camera for a wide-field of Cygnus, flipping between the two: Contextual EAA observing!

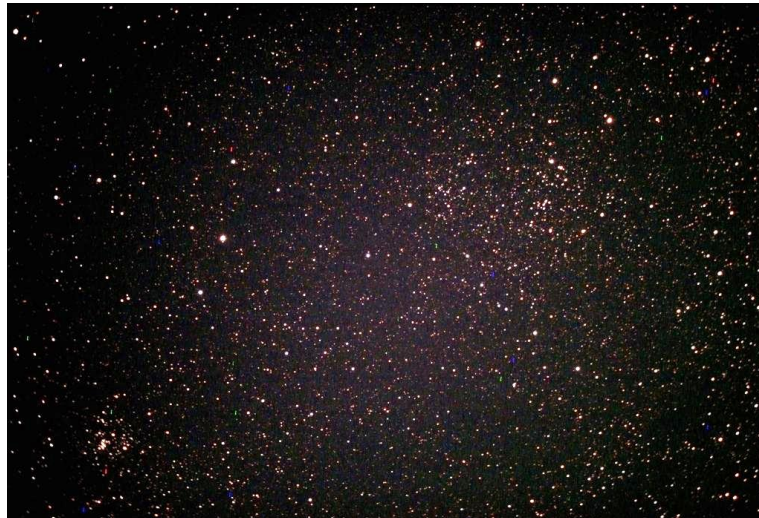
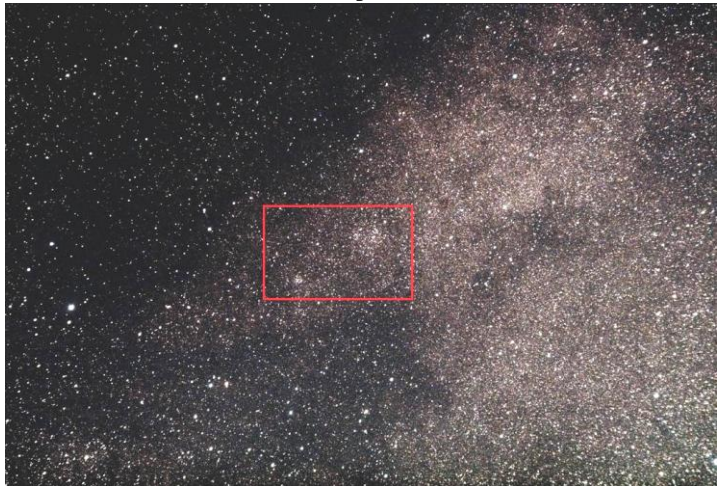
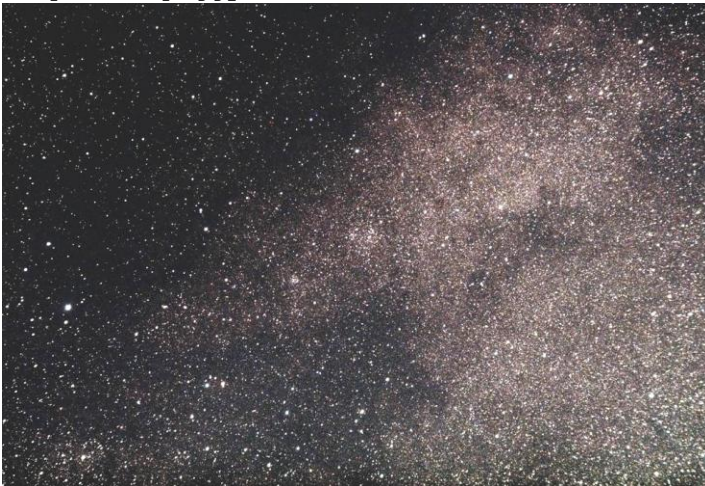


(SeeStar S30-Pro, 60 second exposures in Alt-Az mount mode / 30mm Stargazing Mode stacked for 56 minutes, NB filter, and also 60 second exposures in 3mm Milky-Way Mode stacked for 74 minutes, IR filter, for both - darks & flats applied internally then AI enhancement applied in-app)

While I was having observing fun with both the 8" SCT and the S30-Pro, I had a few visitors drop by. First Roxanne, then a little later Denny, and then Karrie stopped to visit. The fog kept building and dissipating, becoming thick at times. Everything was also covered by heavy dew. (the haze & smoke gave a greenish cast to the AllSky)

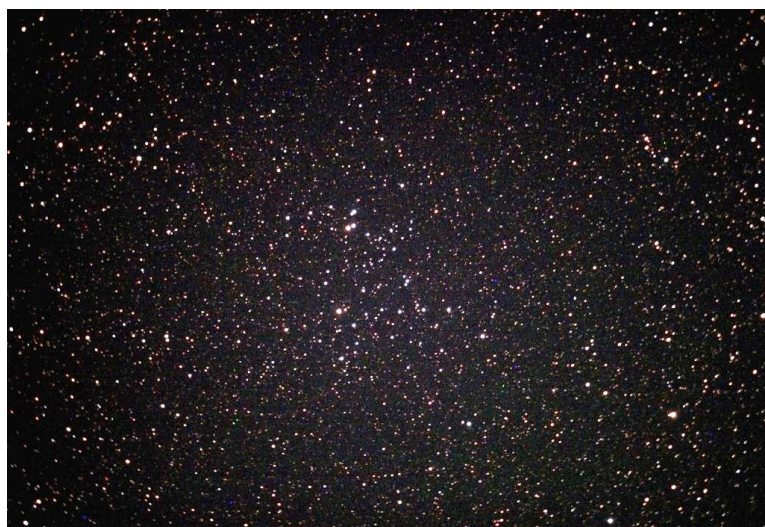


I decided to go back to cluster observing with the main scope, so I slewed the Atlas mount over to a pair of open clusters - NGC6755 & NGC6756, still in Aquila located near the edge of a starcloud. NGC6755 shines at +7.5 mag and is about 8,000 LY away. The much smaller NGC6756 is +10.6 mag and about 4,900 LY distant. I utilized both the main 8" SCT scope and piggybacked EVO50mm refractor for contextual EAA observing.



(EVO50mm @ f4.2 ZWO ASI294MC camera with L-Pro filter, and 8" SCT @ f6.3 & ZWO ASI294MC Pro camera with L-Pro filter, both using 30 second subs, dark & flat calibration frames, PHD guided, livestacked using SharpCap for 30 minutes).

With the time now past 2am and the sky conditions beginning to worsen, I shutdown the S30-Pro and slewed the 8" to one last target, open cluster NGC6709. This loose cluster shines at +6.7 mag and is located about 3,500 LY away. The cluster is in a starry Milky-Way field, but stands out from the background.



(EVO50mm @ f4.2 ZWO ASI294MC camera with L-Pro filter, and 8" SCT @ f6.3 & ZWO ASI294MC Pro camera with L-Pro filter, both using 30 second subs, dark & flat calibration frames, PHD guided, livestacked using Sharpcap for 10 minutes).

The sky had begun to close up during my observation of NGC6709, so I limited that to only 10 minutes. I then shut down and covered up the dripping scope and headed for bed at 3am.

Thursday 07/16/2026:

Slept in till 9am. Used my Keurig machine to heat water for breakfast. That worked well and only drained a little of the solar battery, which was already back to nearly 3/4 fully charged. Visited with Karrie and Denny. Off in the distance, the GB engineer crew was working on the big GBT, giving it its annual maintenance. You could see steam rising from the dish as they power washed it. Could also hear sanding the support structure.



After a cooling shower, I sat outside reading till 12:45pm when I caught a ride up to the visitor center from Gary S. Denny and Karrie were already there. The three of us were wait-listed for the Seti Tour, but Karrie and I didn't make it in. (Denny made it on the tour at the last minute). So I took in several of the afternoon talks by Dr Tim H on Seyfert Galaxies, Radio Frequency management by Riley Dunnagan, and Build your Own Telescope by John Dennis. All interesting presentations!



I also had lunch in the cafe, and looked at the very well done science displays in the building, enjoying the building Air Conditioning!

At 4pm I went on the GBT control room tour with Denny and Karrie, and we met Roxanne on the same tour. Afterwards, the three of us killed a little time at the Visitor's Center before walking over to the cafeteria for a spaghetti dinner. We then sat around camp till time for the 7pm keynote talk. Once again, John and Connie did the introductions and then we had a very good presentation on the Parker Solar Probe by Dr John Wirzburger & family.



After the talk, back at camp, I prepped the scopes, switching the S30-Pro over to EQ mount mode, assembled the hatch blackout tent and gathered my observing notes.

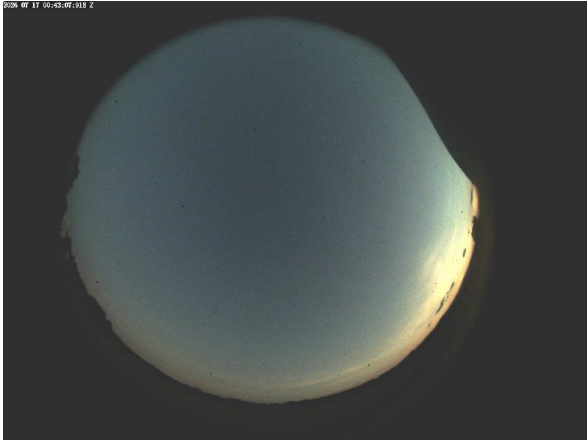
After sunset, I walked over to visit Jim from Florida and his new Tab360 clamshell camper. I've been looking at these online, thinking of upgrading my smaller Tab320.

The new Tab360 is big!! It may be too big for my tow vehicle! ☹

While there I talked with Kevin and Kelly, both from PGH South Hills, about ORAS and camping at Cherry Springs and Astroblast. I then visited with the Dean's, Gary, and Geoff. Dean S was planning on imaging the Western Veil Nebula, NGC6960, along with Pickering's Triangle. As it was getting dark I didn't stay long and headed back to camp. On the way I stopped in to say hello to Dave H and Tom. Everyone on the observing field was treated to a pretty display of pink crepuscular rays and a young Crescent Moon.

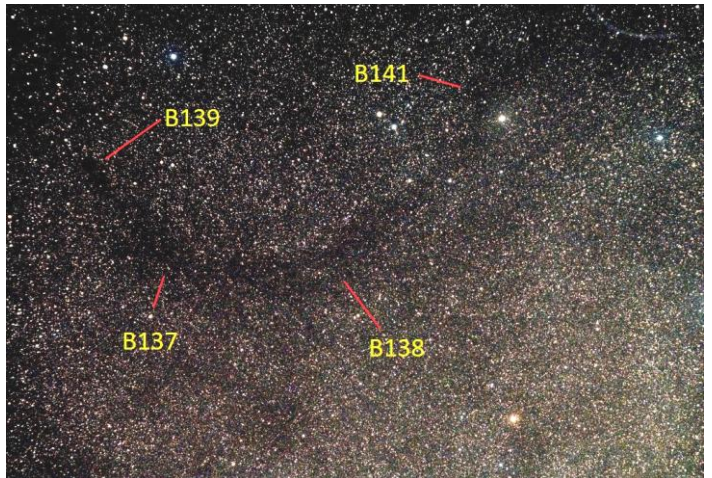
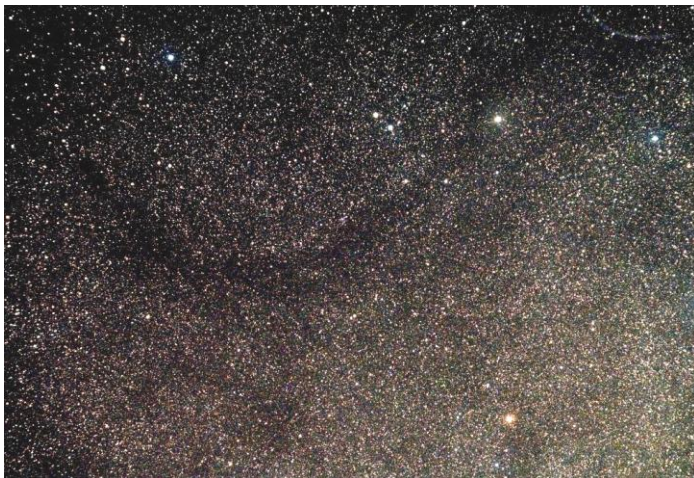


With the sky looking much better tonight, I decided to try for several Barnard Dark Nebula in Aquila, along with finishing the Sky&Tel observing article. The SeeStar would also be busy working the same dark nebula objects.



While waiting for full darkness, Dean M stopped in for quick visit, on his way to the 40ft radio telescope for several hours of observing time. (Later that evening, Dean stopped on the way back to his camp, said it was a lot of fun and showed me a print graph of his observation of 3C 400 - Cygnus-A, that he made with the 40ft dish). Pretty Cool!

Once sufficiently dark, I slewed the 8" from the star Altair, where I had been waiting, to my first Barnard object of the night - B138. This region of space actually contains several dark nebula: B137, B138, B139, and B141, known together as the "Dark Lizard". Unfortunately, the nebula was much larger than expected and did not fit into the 8" FOV, so I went with only the EVO50mm refractor. Here's the EAA observation of the rich field:



(EVO50mm @ f4.2 ZWO ASI294MC camera with L-Pro filter, 30 second subs, dark & flat calibration frames pre-applied, PHD guided, livestacked using SharpCap for 30 minutes)

The sky transparency continued to remain stable for the evening.

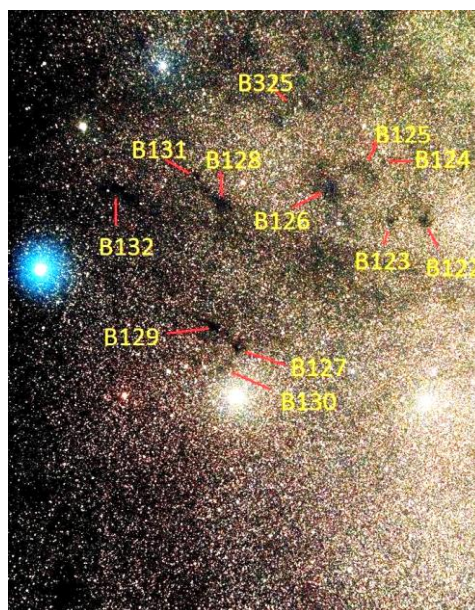


The SeeStar S30-Pro was also hitting the dark nebula alongside the main telescope. Here's B137 & friends and the Aquila Milky-Way in Dual Contextual EAA mode. B137 fills the 30mm FOV nicely, while the Great Rift and the Scutum Starcloud jumps out of the 3mm widefield image! The S30-Pro is a lot of fun to observe with!!



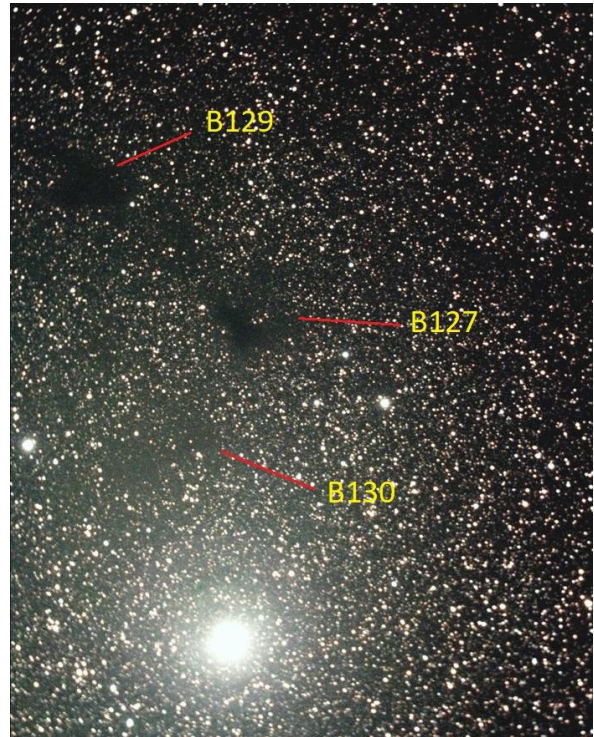
(SeeStar S30-Pro, both 60 second exposures in EQ mount mode / 30mm Stargazing Mode stacked for 31 minutes, and 3mm Milky-Way Mode stacked for 28 minutes, IR filter)

I then moved on to the B127 region and it's 'clustering' of dark nebula, this time using both the 8" SCT and the EVO50mm, along with the SeeStar. First, the EVO50mm to set the FOV context: (B122, B123, B124, B125, B126, B127, B128, B129, B130, B131, B132, and B325)



(EVO50mm @ f4.2 ZWO ASI294MC camera with L-Pro filter, 30 second subs, dark & flat calibration frames pre-applied, PHD guided, livestacked using SharpCap for 30 minutes)

Using my copy of Barnard's photographic atlas, it took awhile to ID all of these.
Then the tiny portion from the 8" SCT that only includes B127, B129, and B130 in the FOV:



(8" SCT @ f6.3 on an Atlas Gem, ZWO ASI294MC Pro camera with L-Pro filter, 180 second subs, dark & flat calibration, PHD guided, livestacked using SharpCap for 30 minutes).

Finally, with the SeeStar S30-Pro:



(SeeStar S30-Pro, 60 second exposures in EQ mount mode / 30mm Stargazing Mode stacked for 40 minutes, IR filter)

Taking a break in-between these dark nebula observations, I visited with Denny and Karrie, delivering KitKats.

My last Barnard Dark Nebula observation of the night in Aquila was B142 & B143 - "Barnard's E" using just the SeeStar. I then did B168 and the the Coocon Nebula - IC5146 in northern Cygnus. Here are both of the observations:



(SeeStar S30-Pro, 60 second exposures in EQ mount mode / 30mm Stargazing Mode stacked for 30 minutes, IR filter)

To wrap-up with the 8" SCT, I went for a couple of planetary nebula from the June Sky&Tel magazine Aquila article. NGC6781 - the Snowglobe Nebula & NGC6804. NGC6781 shines at +11.4 mag, 1'.8 in diameter, and is about 1,500 LY away. NGC6804 is +12.0 mag, is much smaller at 1'.1 in diameter, and is about 4,200 LY away. Here's the cropped EAA observations:



(8" SCT @ f6.3 on an Atlas Gem, ZWO ASI294MC Pro camera with L-eNhance narrowband filter, 180 second subs, dark & flat, PHD guided, livestacked using SharpCap for 30 minutes).

Called it a night at 2:30am. Temp at 62 degrees, sky becoming hazy from smoke and the observing field a little foggy with dew.

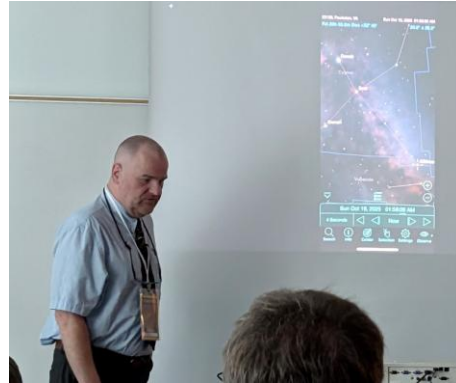
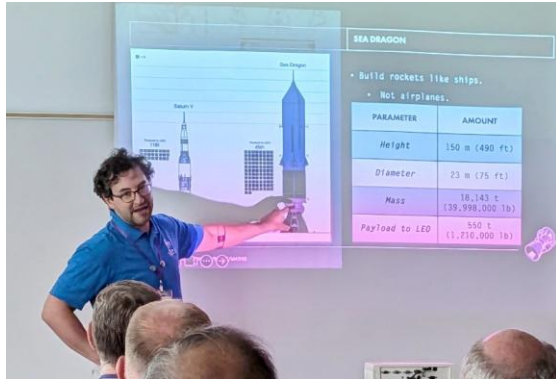
Friday 07/17/2026:

Slept in as long as I could, till 9:30am, before the warm camper finally roasted me out. Kerrie was up outside puttering with her telescope, while Denny was breaking down his equipment having heard that thunderstorms are expected this afternoon. I uncovered my scopes to let them dry while having breakfast, then decided to ride out any afternoon storms and leave everything up in case we get one more night of observing.

At 11am, both Dean M and Geoff C pulled out, heading for home. Dean S and Gary S decided to stay one more night and leave Saturday morning.

At 1pm, I headed up to the visitor center to take in the afternoon talks.

First was a fun presentation on un-built rocket missions by Dr Ramin Lolachi, then a talk on visually observing deep-sky objects in Cygnus by John Raymond.



At 3:30pm, I gave my Barnard Dark Nebula presentation to a nice crowd of around 40 starparty attendees. Good questions afterwards. Before heading back to camp, I plugged my phone in and checked the weather forecast: likely scattered storms early this evening, but a chance of clearing later for possible observing. I have my fingers crossed.

Denny decided to pass on tonight's dinner, so I met Karrie at the cafeteria and sat with her. It was another delicious meal! Loaded Baked Potato. I usually lose weight during camping trips, but not this time! LOL!



Back at camp, we pulled our chairs over under Denny's camper canopy and visited. Then a little before 7pm, the three of us headed up for the evening keynote speaker. Another great presentation by the Star Quest folks! After the usual introduction by John and Connie, Dr Catherine Regan reviewed the history of Mars exploration, both telescopically from the Earth and from spacecraft and Landers, and what the future holds.



After the talk, we headed back to camp and continued sitting under Denny's awning, watching a thick front of clouds slowly moving in.

The sky had gone mostly cloudy with an occasional distant flash of lightning. At dusk, Denny and I walked over to the NE field to visit with Dean and Gary, where we sat out and had snacks and beverages. Karrie stayed back and used her big binocs to observe a family of skunks over on the old airfield. A few stars appeared directly overhead thru gaps, but the clouds and lightning flashes along the horizon persisted, so no observing tonight. At 10:30pm, we walked back to camp; with Denny calling it a night and I stayed out and visited with Karrie till a little after 11pm when I headed indoors to read. Stayed up till midnight.

Saturday 07/18/2026:

Up at 8am after a full night of sleep. Yea!

At 9:30am, the three of us headed up to the visitor center for the group photo. It took a bit of maneuvering by the cameraman to fit us all in the FOV. While there I checked the weather forecast and smoke map. While the smoke was easing up, storms were incoming that afternoon. Back at camp I disassembled the scopes and started packing away some of the camping items. Karrie broke down her telescope equipment before leaving on the morning Seti Tour, while Denny and I got our chairs and watched the nearby model rocket launch. Good fun!



Both Dean and Gary S finished packing their equipment, and left for home, stopping on the way out to say goodbye, while we wished them safe travels.

While Karrie was still on the tour, Denny and I went for a 3 mile hike along the nature trail that lead to the big GBT. We had just arrived at the giant radio telescope when we heard thunder from a line of dark clouds to the SW. We hurried back to camp, passing a number of other radio telescopes, including the Tatel Telescope, the 40ft training dish, and the 140ft radio dish. We made it back to camp with just minutes to spare, before the scattered sprinkles turned into a downpour.

After the storm ended, Karrie packed up her observing tent and her camping tent and was going to sleep in her car for the night. Mid-afternoon, the three of us drove up to the Visitor Center for raspberry ice cream. Yum!! Back at camp I took down my easy-up canopy leaving just the camper visor up to provide a little rain protection for the solar generator, though I did put away the panels as the generator was fully charged.



Towards 5pm and dinner time, the sky was looking a bit sketchy, with dark clouds all around. We had only been inside the cafeteria for a few minutes when a heavy downpour went over the area. We finished our meal, burger bar, and let the rain stop before heading outside. The air temperature had cooled off nicely. Back at camp, with some time to kill, I sat out and read a little. Then the three of us headed up at 7pm for the last keynote speaker, Dr Fernando Morales, on the science of Heliophysics.



Afterwards, it was time for the big doorprize raffle! Denny and Karrie both won, but I must have left my luck back at camp, lol.



We headed back to camp at 9:45pm and got out our chairs and sat under Denny's awning till 11:30pm, gazing at occasional stars among flashes of lightening. In bed by midnight

Sunday 07/19/2026:

Up early, 7:30am to pack. Karrie had already pulled out and Denny was finishing packing and would be leaving within the hour. I enjoyed breakfast while straightening up the inside of the camper, and watching folks leave the observing field.

I then headed outdoors to finish packing away the solar generator. But before I could fold up the shade visor, a brief rain shower soaked it. After shaking it out a few times, I laid it out in the back of the car to dry on the way home. Will have to hang it up in the garage once I get home later that afternoon.

After one last look at the GBT, I pulled out around 9:30am for the return trip home.



Driving over the large mountain on Rt92, the top was foggy. Once on I79, as I neared Clarksburg, the thicker smoke that we had been hearing about was quite visible along the mountain valleys. Passed a few other Star Questers along the way on the highway.

After stopping for lunch, I arrived back home a little before 3pm, bringing this camping trip to a close. While the hot daytime temps and weather wasn't the best during the event, and wildfire smoke marred the clear nights that we had, the starparty was still worth the trip! I am really happy that Star Quest has been able to continue with Green Bank Observatory remaining open in this era of science budget cuts. It was a privilege presenting at Star Quest, and I look forward to returning.

Mark your calendars for next year: Star Quest 2027 - Wednesday July 28th thru Sunday August 1st. (3rd Qtr Moon is Monday July 26th, New Moon Monday August 2nd).

For my fifth dark-sky astro camping trip of the year I was able to EAA observe on three partial nights but completely clouded out on two. So about a 50/50 break-even. I continue to be in the red for 2026 clear nights.

Larry McHenry

Astronomical Webportal: <http://www.stellar-journeys.org/>