Never Wide Enough

Wide Angle Photography, gear & Lenses

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Introduction

- As a nightscape photographer, I love to chase aurora, lightning bugs, meteors, and the milky way. I absolutely love taking panoramas of the night sky.

- As a professional conservationist, I advocate for dark skies to help protect habitat for insects, birds, bats, and people.

Agenda

- **What's in the bag**
- **Shooting W I D E**
- **Decisions, decisions, decisions!**
- **Questions**

What's in the bag

Camera Equipment

Cameras

- Canon R6 Mark II
- Canon EOS R x2
- Canon 6d astro modded

Lenses

- Sigma Art 14mm
- Sigma Art 20mm
- Sigma Art 35mm

Accessories

- L bracket
- Intervalometers
- Grabber Hot Hands
- Extra batteries

Tripod Equipment

Tripod

- RRS Carbon Fiber

Ballhead

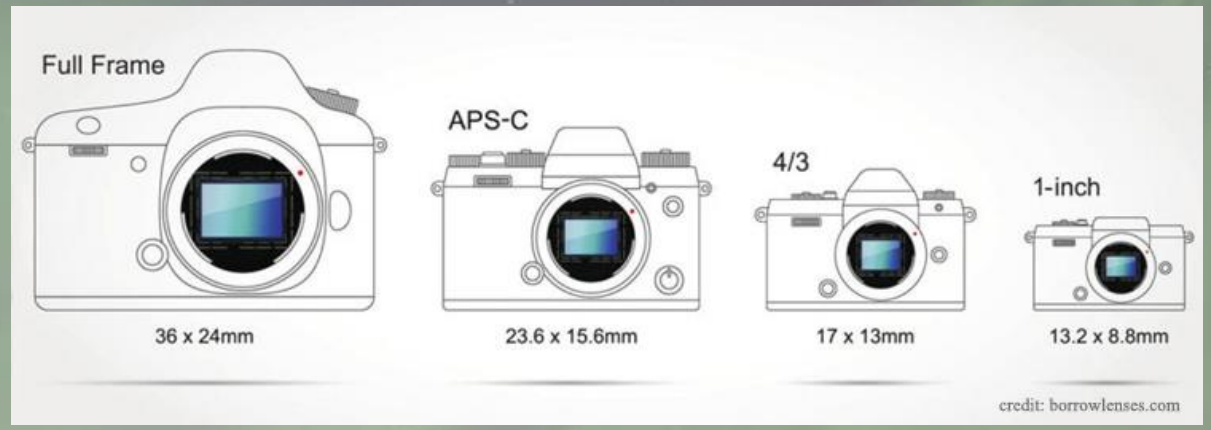
- RRS BH-40

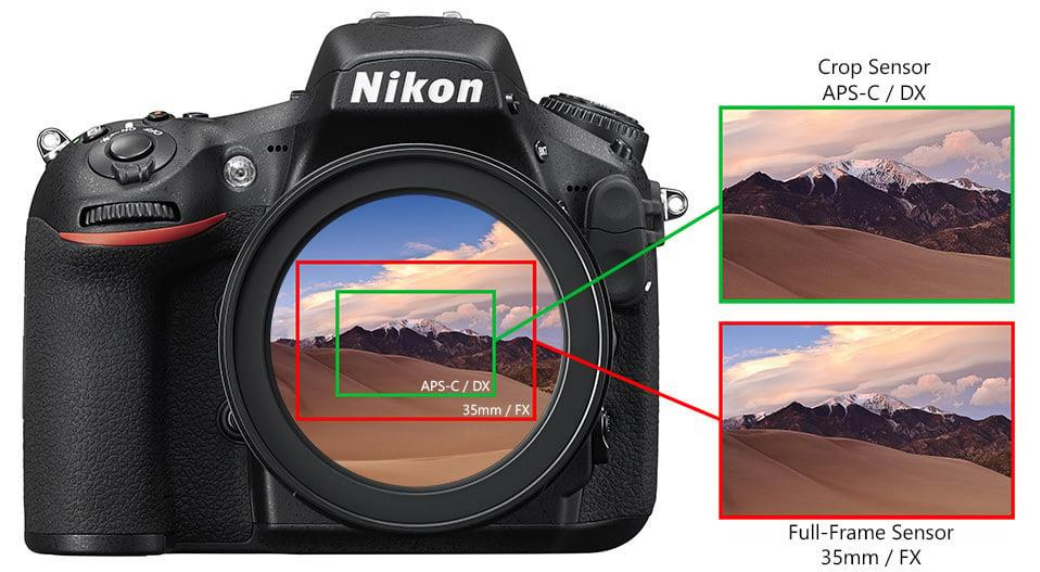
Leveling Base

- RRS leveling base w/ short handle

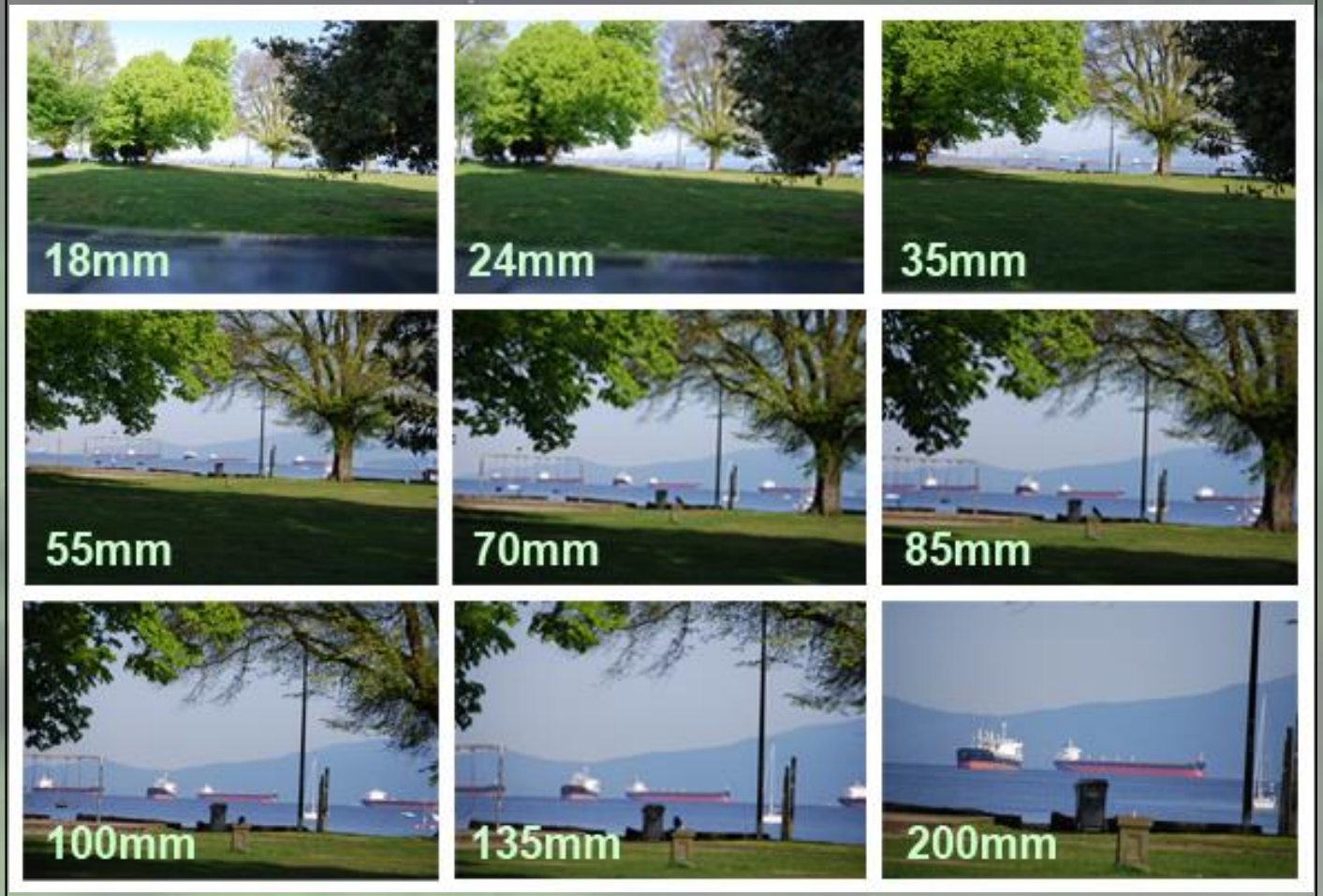
Shooting W I D E

- Full frame
- Crop sensor





Shooting WIDE



https://www.photomodeler.com/kb/what_is_camera_focal_length/

"Different camera bodies have different crop factors," says photographer Whitney Whitehouse. "Canon has a 1.6x crop sensor, while Nikon, Sony, Sigma, and Pentax have a multiplier of 1.5x, and Panasonic and Olympus are 2x."

18 x 1.6 = 28.8mm
24 x 1.6 = 38.4mm

the distance between the optical center of the lens and the imaging plane

Shooting W I D E

- **Wide Primes**
  - Fisheye
  - 14mm
  - 20mm
  - 35mm
- **Wide Zooms**
  - 10-22mm
  - 16-35mm

- **Speed of Lens**
  - F2.8 is good
  - Lower is even better, for ex. a 1.4 or 1.8 lens

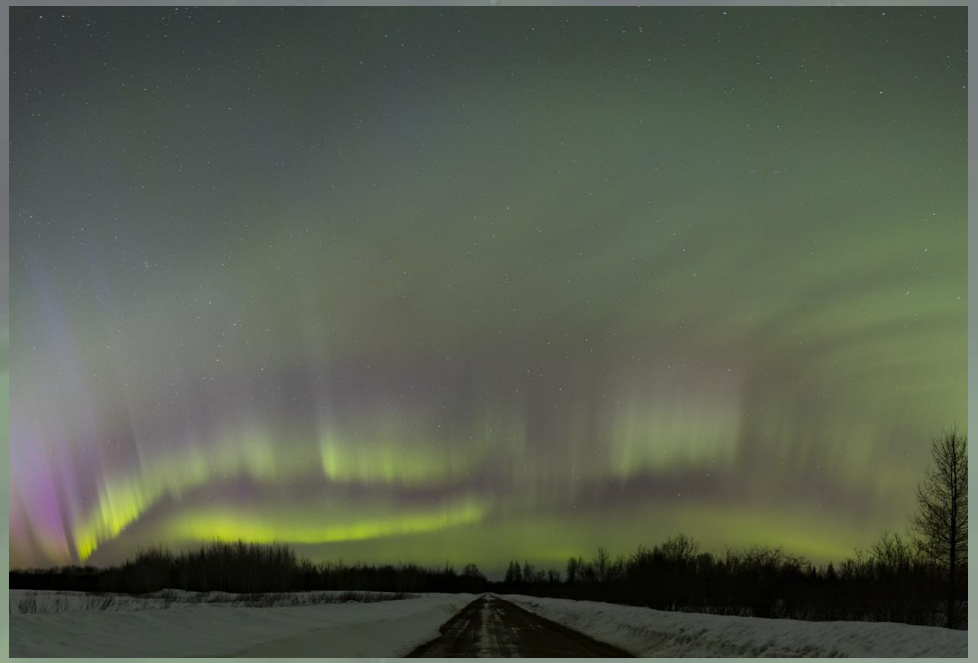
Coma from shooting wide open on certain lenses. Usually happens in corners.


Iso 4000, f1.8, 2 sec.
14mm


Iso 3200, f1.8, 2.5 sec.
20mm

Go W I D E R with Panoramas

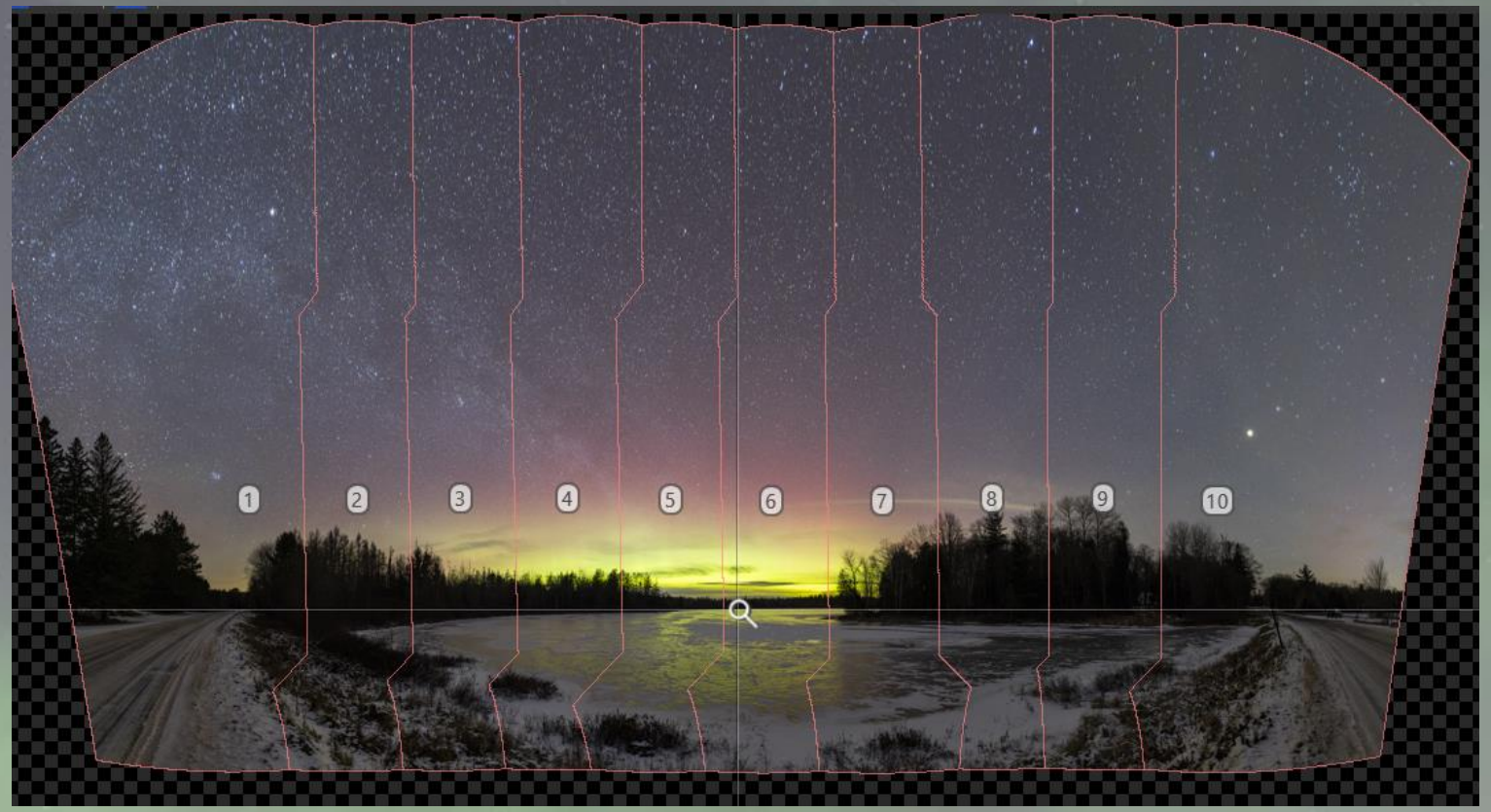
Why a Panorama?



Wide as YOU want, and ability to crop!

March 23, 2023

- Increased resolution & cropping ability



- Reduces coma

Equipment & How-to

10 single images, 14mm, iso 2500, f1.8, 3.2 seconds
stitched in PTGui
May 10, 2024. Sawyer County, WI

Typically shot in portrait mode

Always overlap your images 30-50%

Always shoot further left and right than what you want your final image to be

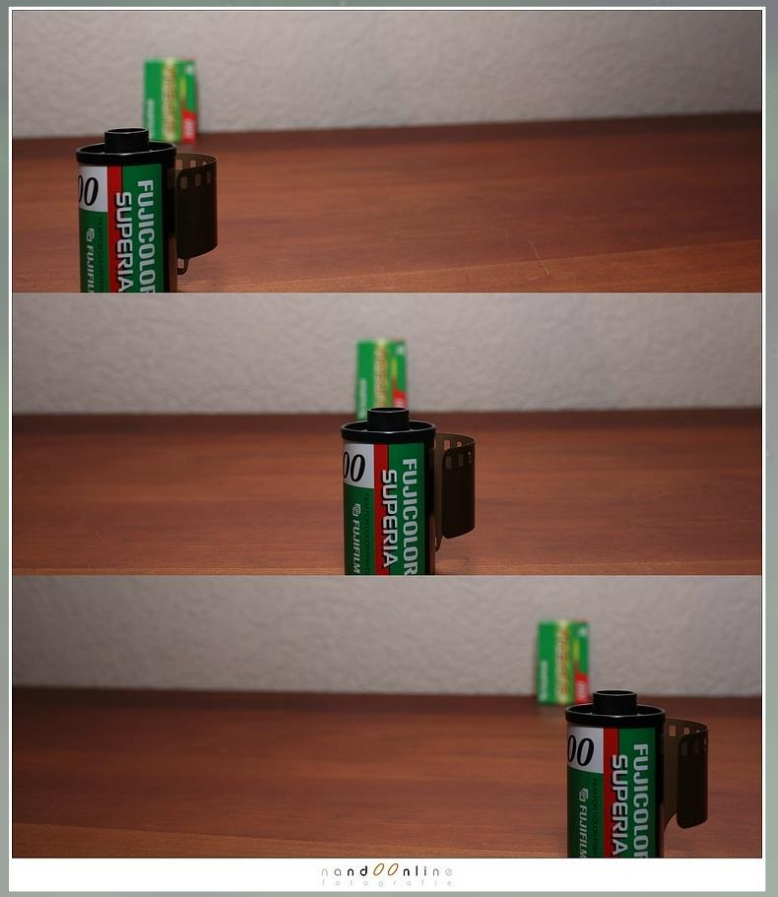
You must level your tripod AND camera

Not absolutely necessary, but a nodal slide to allow you to set the “eye of the camera lens” over the center of your tripod

Need a stitching program: Lightroom, Photoshop, PTGui


7.5°
N
360 350 340 330 320 310 300 290 280


Panning clamp
Nodal slide
(c) Glenn Randall www.glennrandall.com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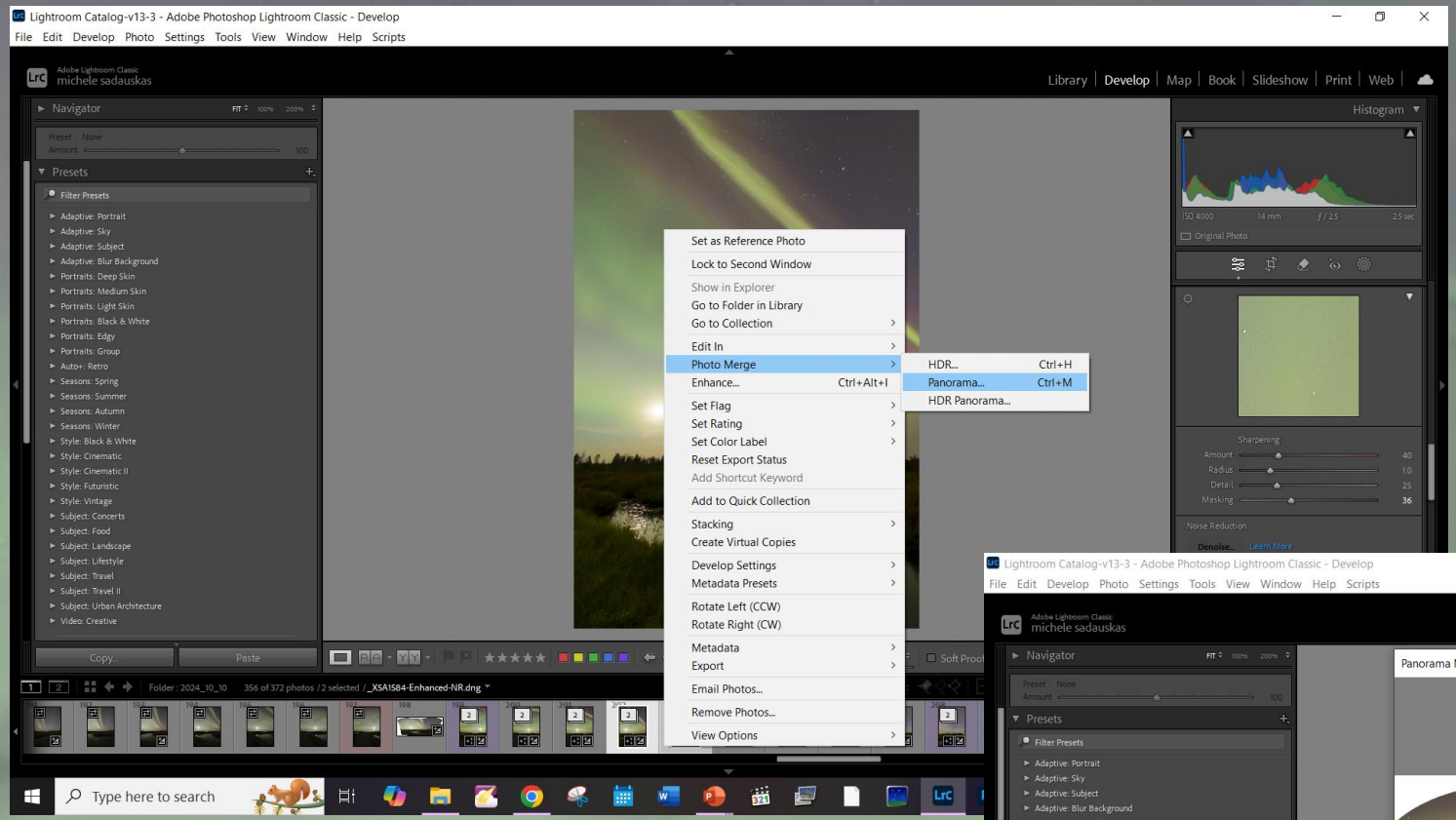
Parallax


Lightroom Catalog-v13-3 - Adobe Photoshop Lightroom Classic - Develop
File Edit Develop Photo Settings Tools View Window Help Scripts
Library | Develop | Map | Book | Slideshow | Print | Web
Navigator
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Set as Reference Photo
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Set Color Label
Reset Export Status
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Create Virtual Copies
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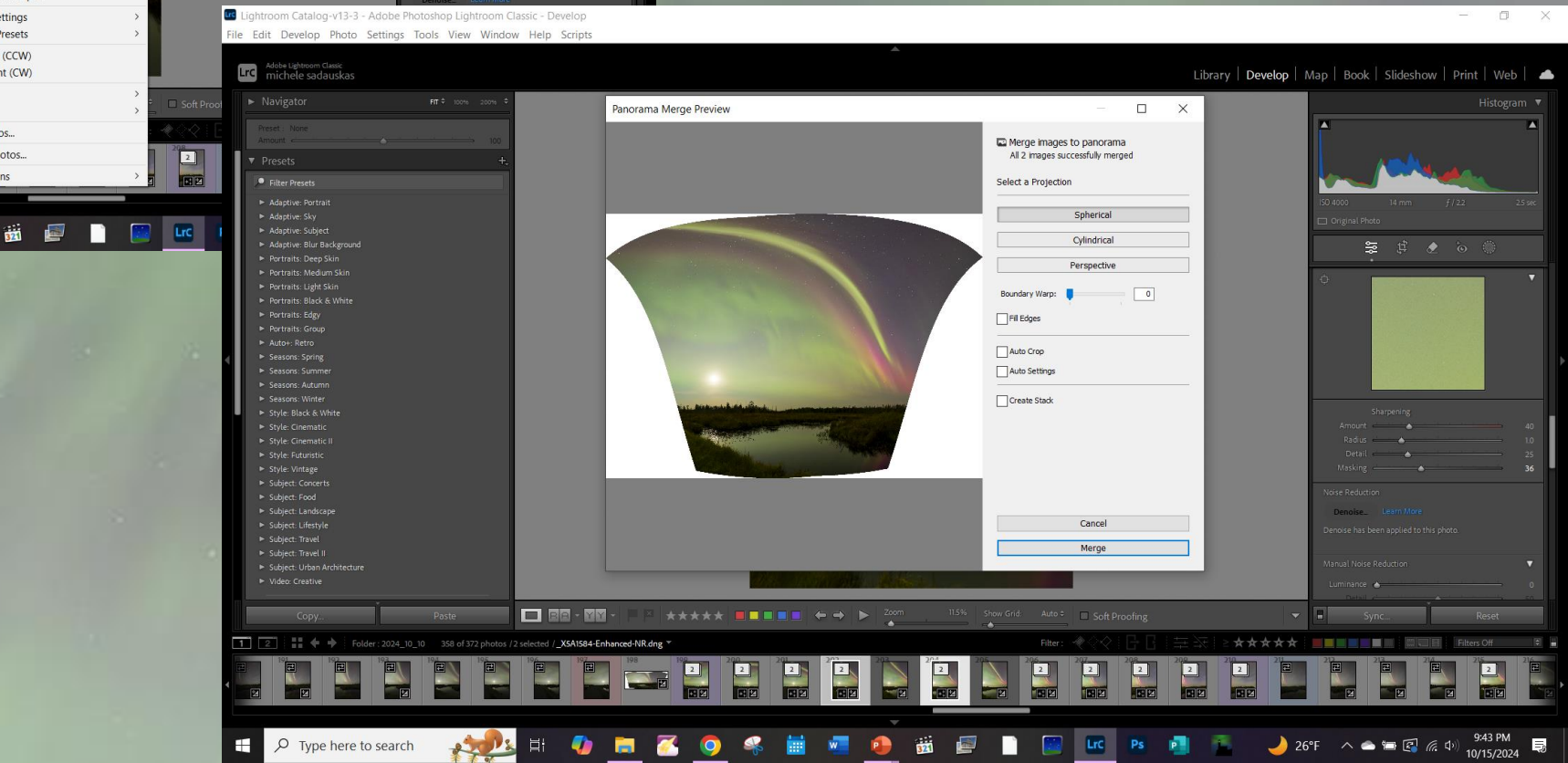
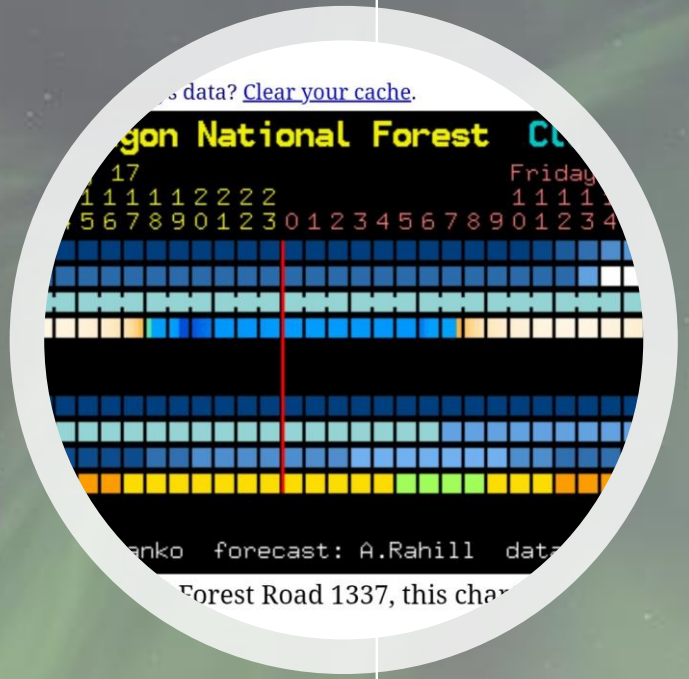
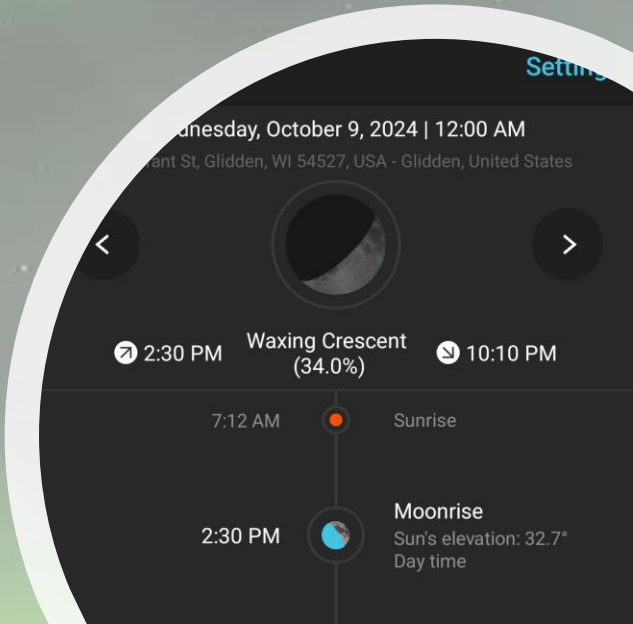

Lightroom Catalog-v13-3 - Adobe Photoshop Lightroom Classic - Develop
File Edit Develop Photo Settings Tools View Window Help Scripts
Library | Develop | Map | Book | Slideshow | Print | Web
Navigator
Presets
Histogram
Panorama Merge Preview
Merge images to panorama
All 2 images successfully merged
Select a Projection
Spherical
Cylindrical
Perspective
Boundary Warp:
Fill Edges
Auto Crop
Auto Settings
Create Stack
Cancel
Merge
Sharpening
Noise Reduction
Denoise has been applied to this photo.
Manual Noise Reduction
Copy...
Paste
Sync...
Reset
Type here to search
26°F
9:43 PM
10/15/2024

10 single images, 20mm, iso 10,000, f1.8, 1 second
stitched in Lightroom
September 12, 2024. Ashland County, WI

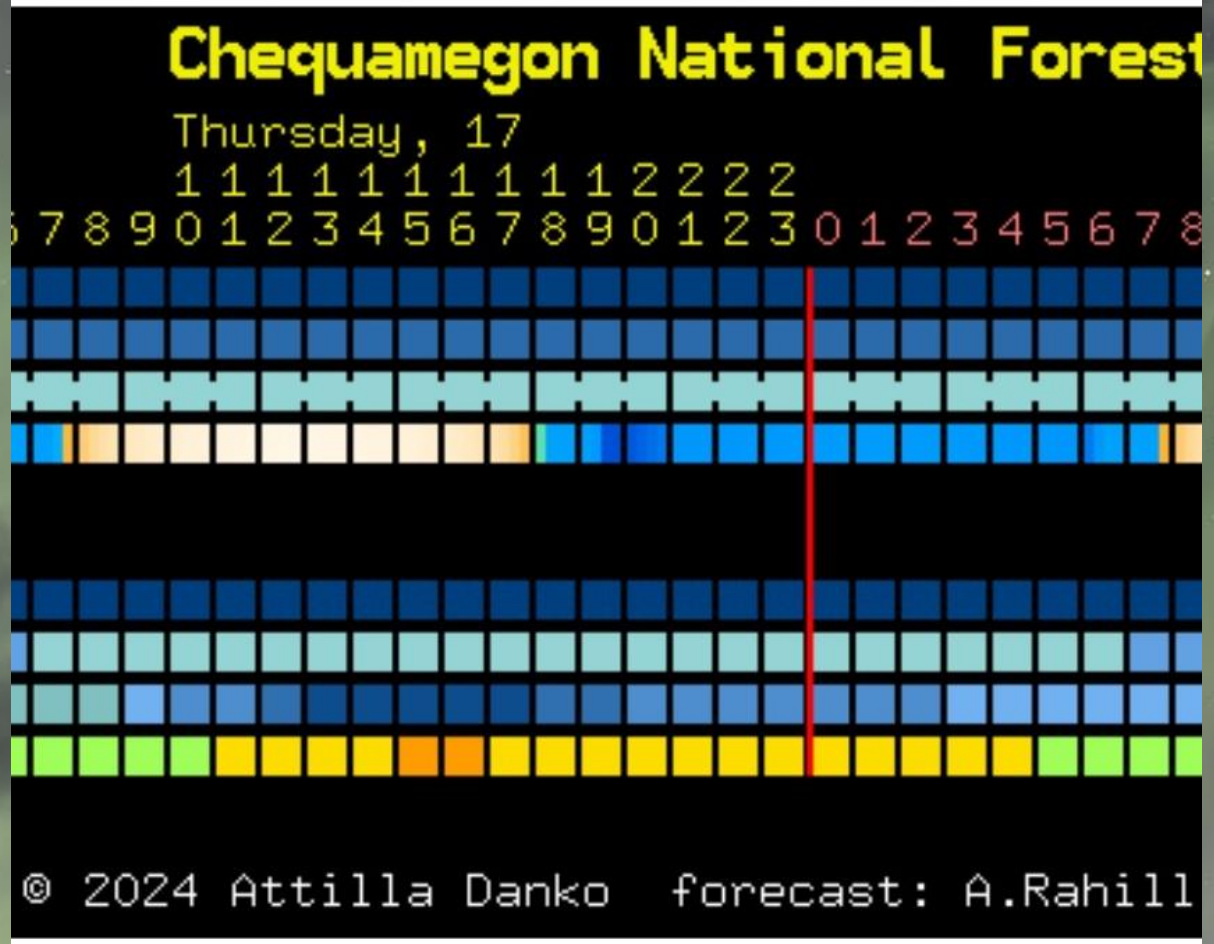
10 single images, 14mm, iso 4000, f1.8, 2.5 seconds
stitched in PTGui
May 10, 2024. Ashland County, WI



Decisions, decisions, decisions!



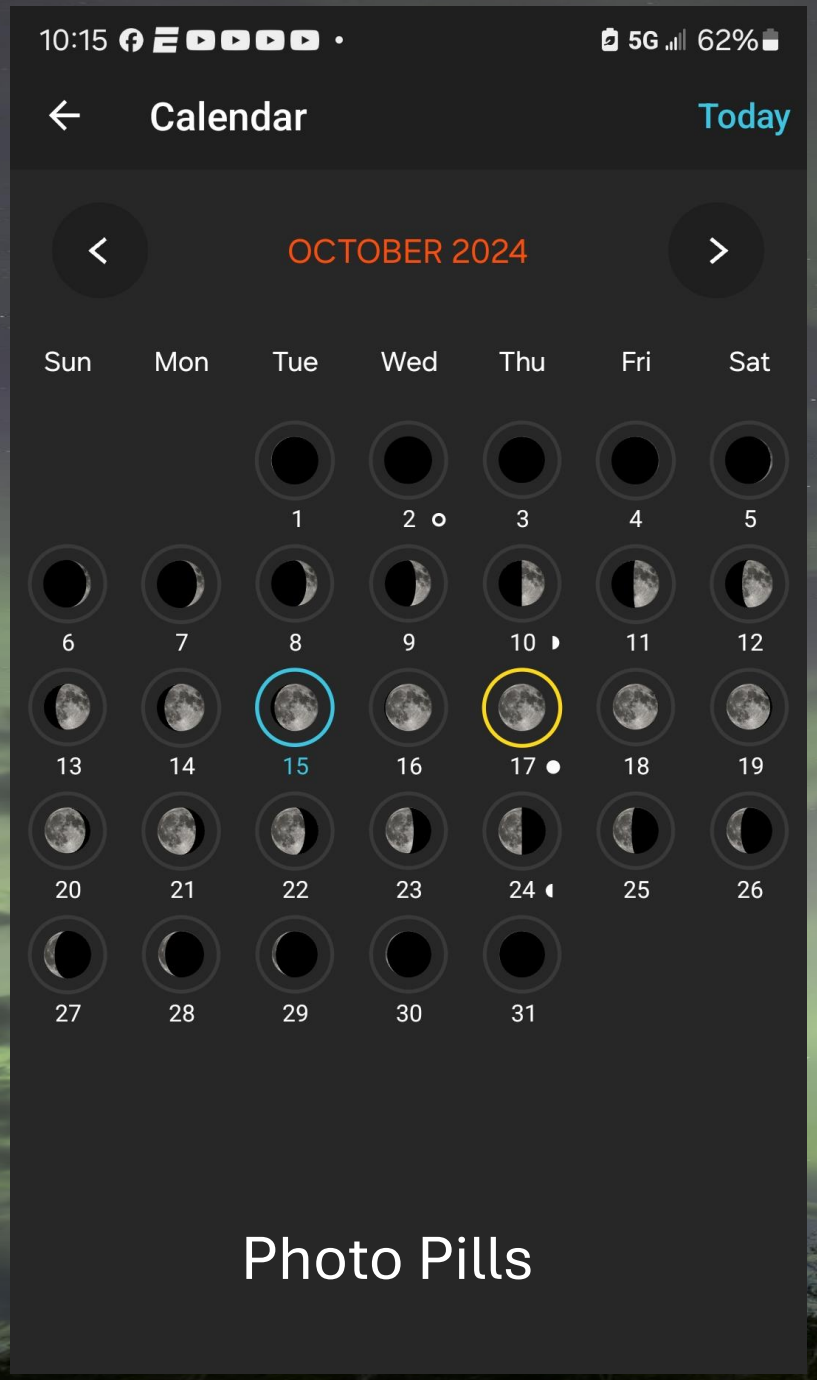
Read this. Not showing todays data? Clear your cache.

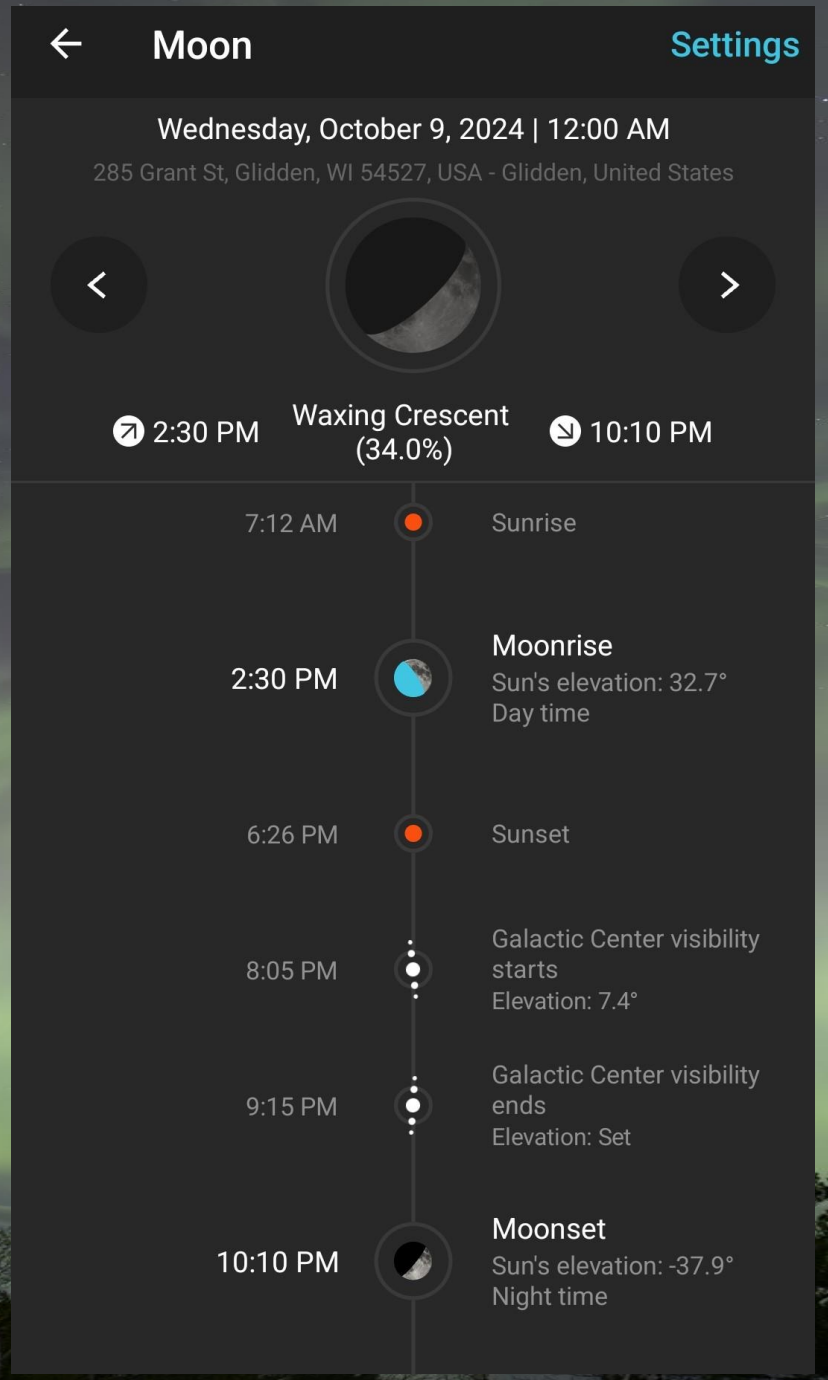


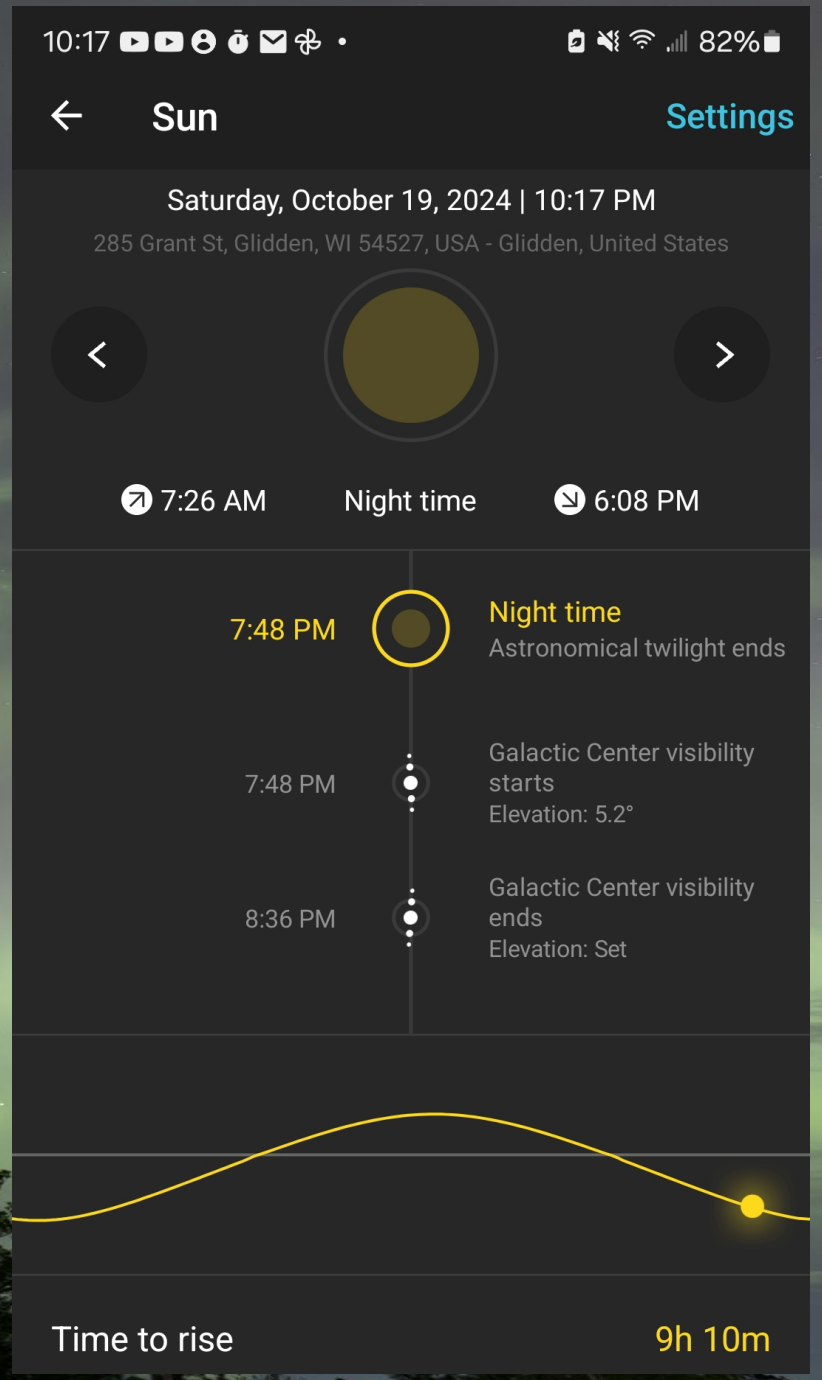
of Forest Road 335 and Forest Road 1337, this ch

Clear Dark Sky

Windy

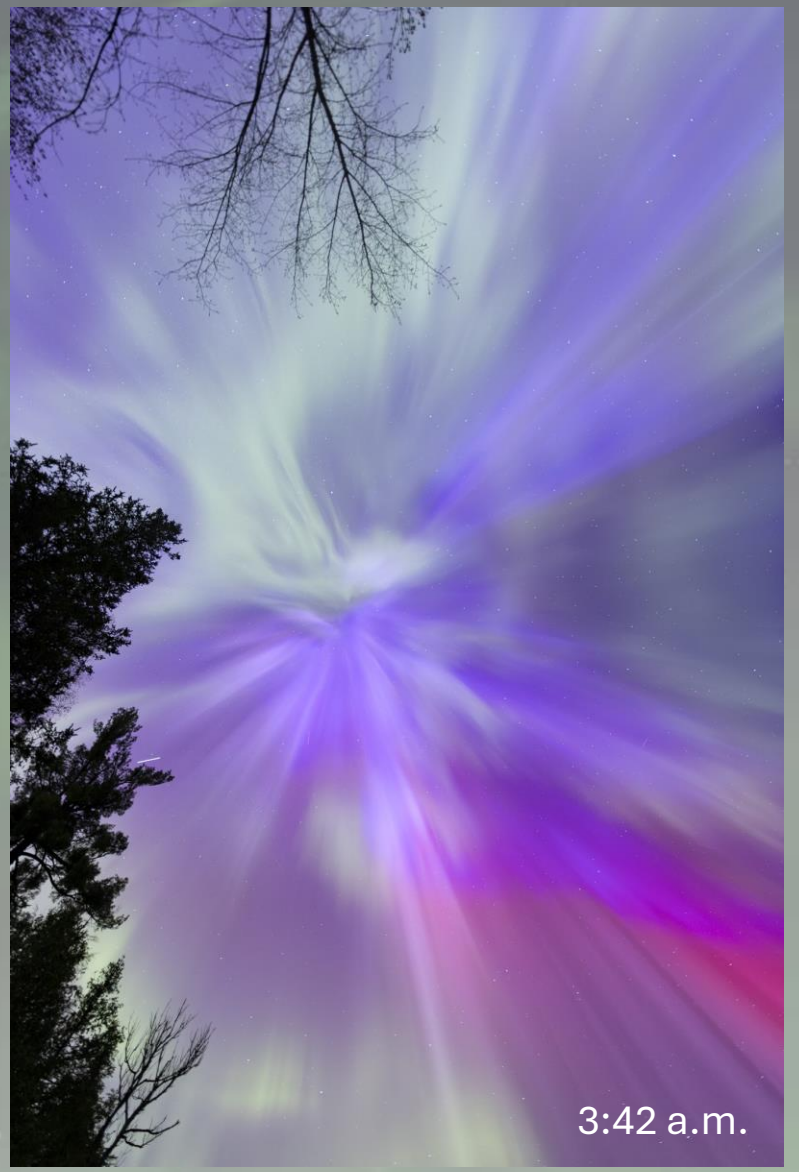

10:15
5G 62%
Calendar
Today
OCTOBER 2024
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
Photo Pills


Moon
Settings
Wednesday, October 9, 2024 | 12:00 AM
285 Grant St, Glidden, WI 54527, USA - Glidden, United States
2:30 PM
Waxing Crescent (34.0%)
10:10 PM
7:12 AM Sunrise
2:30 PM Moonrise
Sun's elevation: 32.7°
Day time
6:26 PM Sunset
8:05 PM Galactic Center visibility starts
Elevation: 7.4°
9:15 PM Galactic Center visibility ends
Elevation: Set
10:10 PM Moonset
Sun's elevation: -37.9°
Night time


10:17
82%
Sun
Settings
Saturday, October 19, 2024 | 10:17 PM
285 Grant St, Glidden, WI 54527, USA - Glidden, United States
7:26 AM
Night time
6:08 PM
7:48 PM Night time
Astronomical twilight ends
7:48 PM Galactic Center visibility starts
Elevation: 5.2°
8:36 PM Galactic Center visibility ends
Elevation: Set
Time to rise
9h 10m

May 10, 2024 – Sawyer County, WI

Single image, 14mm. iso 1600, f2.5, 3.2 sec.



Single image, 14mm.
iso 1600, f1.8, 3.2 sec.

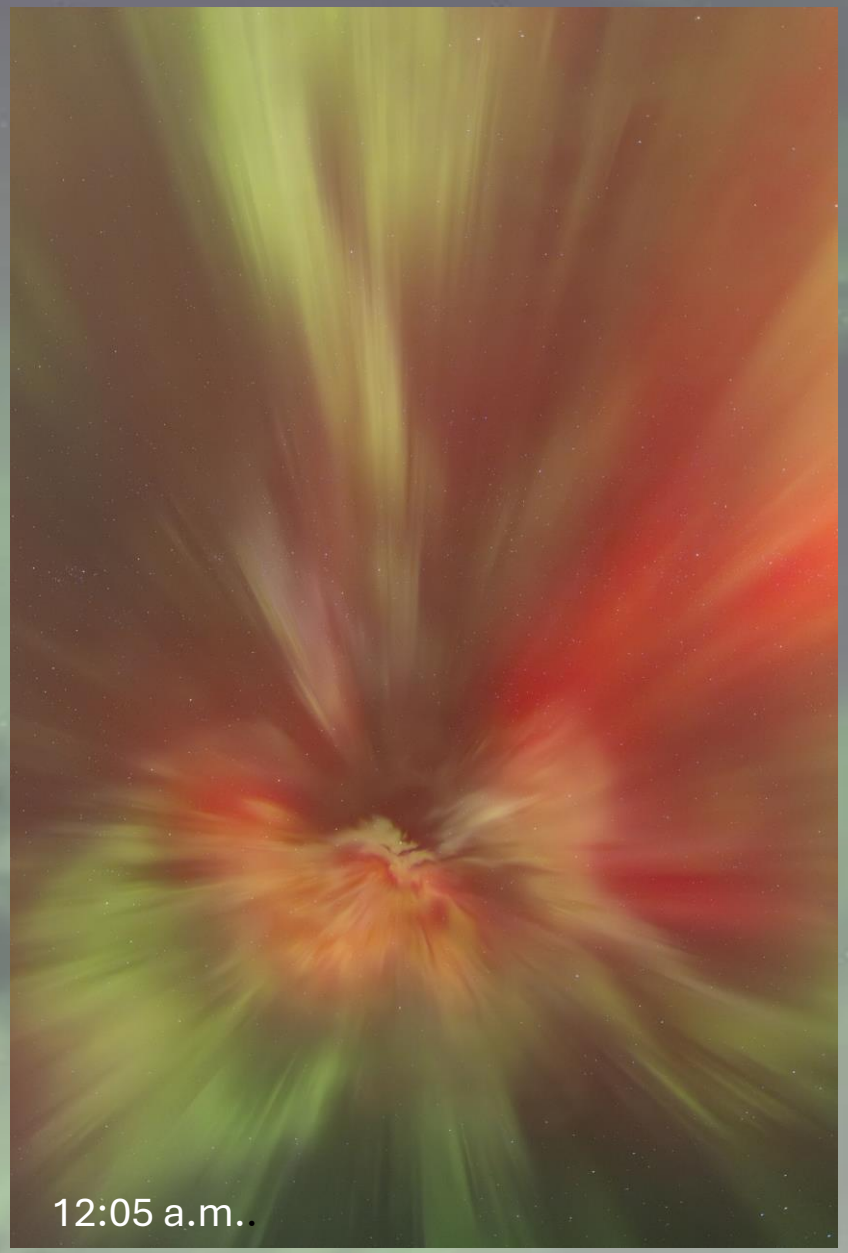
Using moonlight

17 single images, iso 1600, 35mm, f2.0, 6 sec.,
stitched in Lightroom
September 3, 2022. Ashland County, WI

Single image, 20mm, iso 1600, f2.0, 4 sec.

Choosing a location

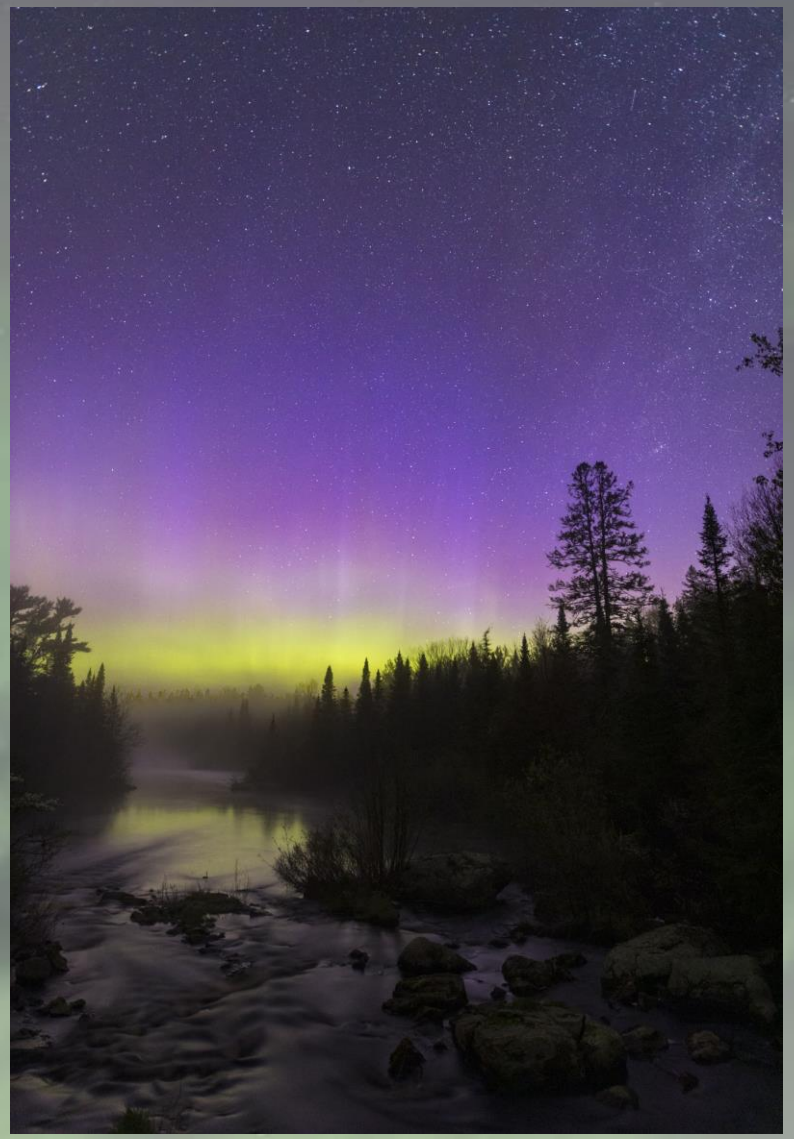
October 7-8, 2024



Single image, 14mm, iso 6400, f1.8, 1 sec.
Ashland County, WI

8 single images, 14mm, iso 4000, f1.8, 4 sec.
stitched in Lightroom
Ashland County, WI

Choosing a location



Same location facing north

STEVE arc facing south

Choosing a technique

Meteor showers

May 6, 2024

Eta Aquarid meteor shower

Single image. 20mm, f1.6, 13 sec.,
May 6, 2024. Ashland County, WI


Questions?

Thank you!

michele sadauskas

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