Night Time Lapse Photography Saint John Astronomy Club Tom Raithby November 14, 2017



- Time Lapse Photography
 - Gear
 - Settings
 - Shooting
 - Workflows
 - Planning
 - Applications
 - Video
 - Options
 - Night, HDR, Motion

- Astrophotography Time Lapse
 - Photography at night
 - Time lapse at night what's different?
 - Workflows
 - Planning
 - Applications

Time Lapse - Gear

- Tripod
- Intervalometer
- Filters (ND, Circular Polarizing)
- Motion Control
- Exposure Control
- Camera (DSLR, video) (Canon & Others) (Sensor Size Matters)
- Lenses (+ hoods)
- Battery Grip
- Memory (SD, CF)
- Plastic





Time Lapse - Workflows

- Concept
- Pre-planning
 - Location scouting
 - Applications Google Earth, Photographers Ephemeris (moon & sun)
 - Websites
 - Windfinder http://www.windfinder.com/forecast/gardner.s.creek
 - Environment Canada https://weather.gc.ca/city/pages/nb-23-metric e.html
 - Fisheries & Oceans http://tides.gc.ca/eng/station?sid=65
- Field work
- Post-production
 - Applications Lightroom, LRTimelapse, Photomatix >> JPEGs
 - Applications Photoshop CC
 - Applications Adobe After Effects, Premiere Pro
 - Overall flow, music?

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Time Lapse - Video

- Sometimes video is the starting point
- Or DSLR
- Or GoPro...
- Final output is a video
 - Dynamic
 - Insight & discovery

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Astrophotography – Time Lapse Photography at Night

- Workflows
 - More emphasis on pre-planning
 - Scouting in daylight
 - Applications
 - Google Earth, Photographers Ephemeris, **Stellarium**
 - Websites
 - Same as previous plus
 - Clear Dark Sky http://cleardarksky.com/c/SntJhnNMBkey.html?1

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Astrophotography – Other Things

- It's dark
 - Know your camera
 - Lighting
 - To see your way
 - To see your gear
 - To illuminate your scene (light painting)
 - A spare!
 - Headlamps ROCK!
 - Higher ISO's
- It might be cold or wet or damp
 - Protection for you and your gear
 - Lens Warmers

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Astrophotography – Settings

- All Manual
- High ISO
 - up to 3200 on 6D & 60D
 - XTi (older crop sensor) likes daytime better
- Aperture is usually wide open (f/4 ok, f/2.8 better...)
 - Fast glass really helps
 - Some lenses have severe chromatic aberration (or coma)
- Shutter speed
 - Test shots to be sure
 - Up to 30 seconds for stars as points of light
 - rule of thumb 600/focal length eg 600/24mm = 24 seconds +/-
 - Longer for star trails

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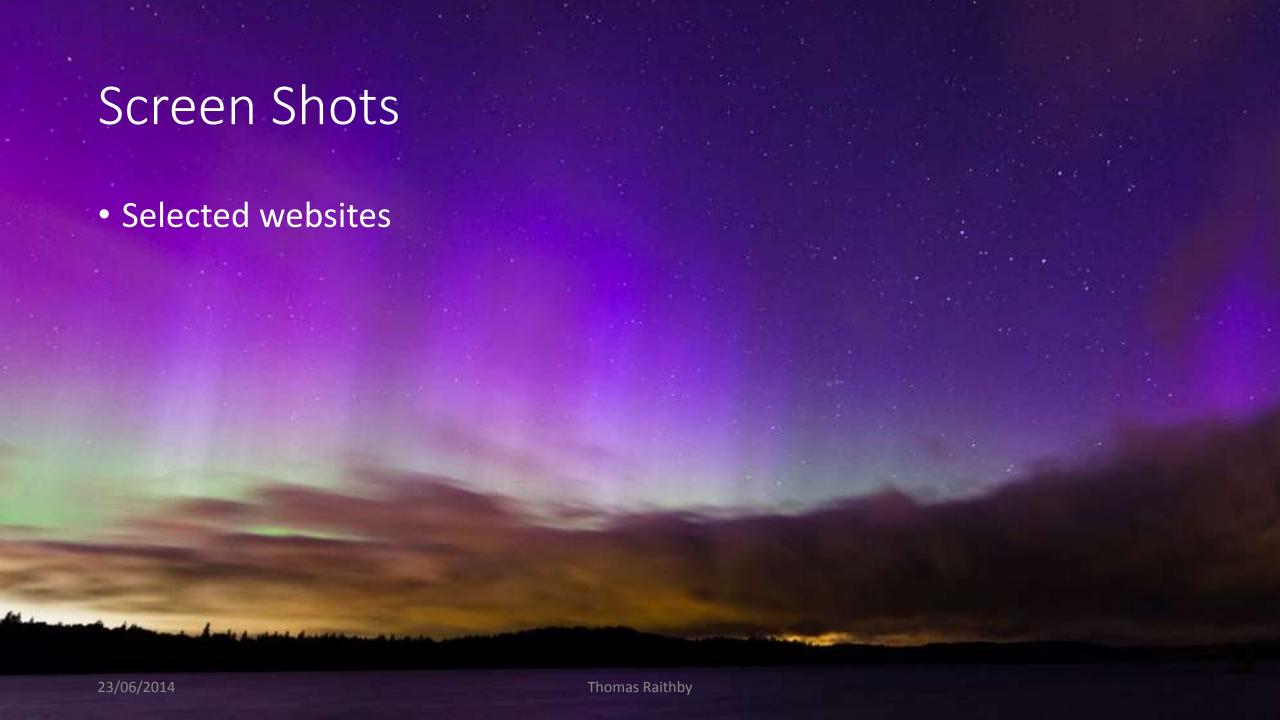


- Mark sequence starts with your hand (or a light)
- Consider a checklist for your settings
- Plan ahead
- Learn from your experiments
 - Field lessons what worked, what didn't?
 - Captures even if it wasn't what you planned...
- Clean the sensor & lens

Useful References

- Websites I use:
 - Clear Dark Sky http://cleardarksky.com/c/SntJhnNMBkey.html?1
 - Windfinder http://www.windfinder.com/forecast/gardner-s-creek
 - Environment Canada https://weather.gc.ca/city/pages/nb-23 metric e.html
 - Fisheries & Oceans http://tides.gc.ca/eng/station?sid=65
- Applications I use:
 - Lightroom, LRTimelapse, Photomatix, Photoshop CC
 - Adobe Premiere Pro*, Adobe After Effects*
 - Photographers Ephemeris, Google Earth, Stellarium
- Books I'd recommend:
 - Chylinski, Ryan. 2012. <u>Time-Lapse Photography</u>.
 - Wu, Jennifer. 2014. Photography: Night Sky.

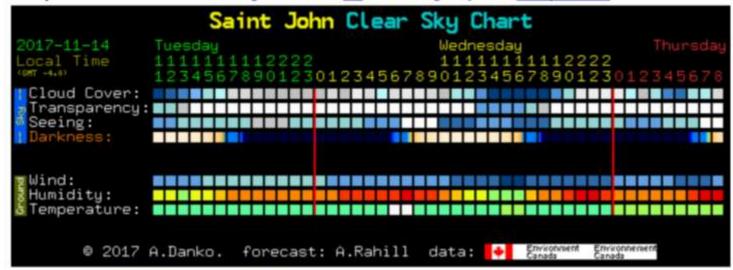
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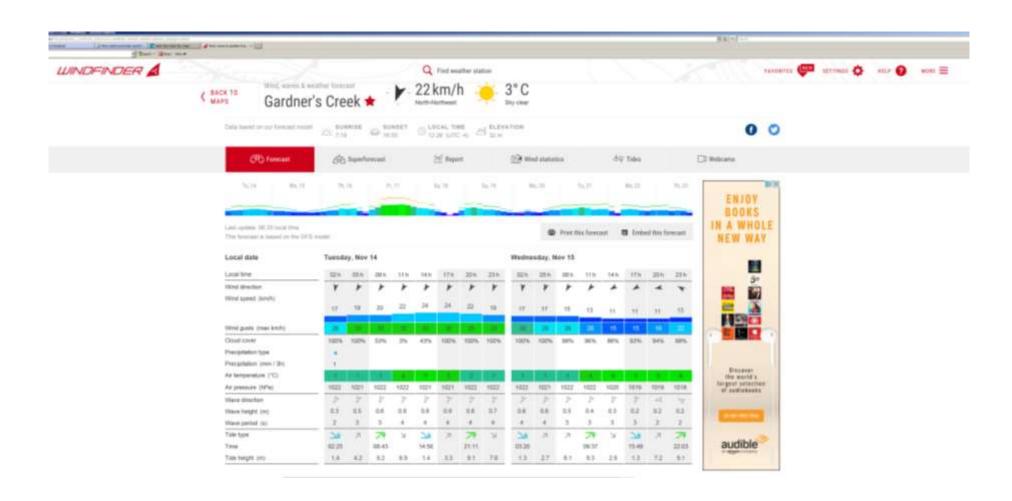
Saint John Clear Sky Chart

Last updated 2017-11-14 11:52:31. No Image below? Read this. Not showing todays data? Clear your cache.

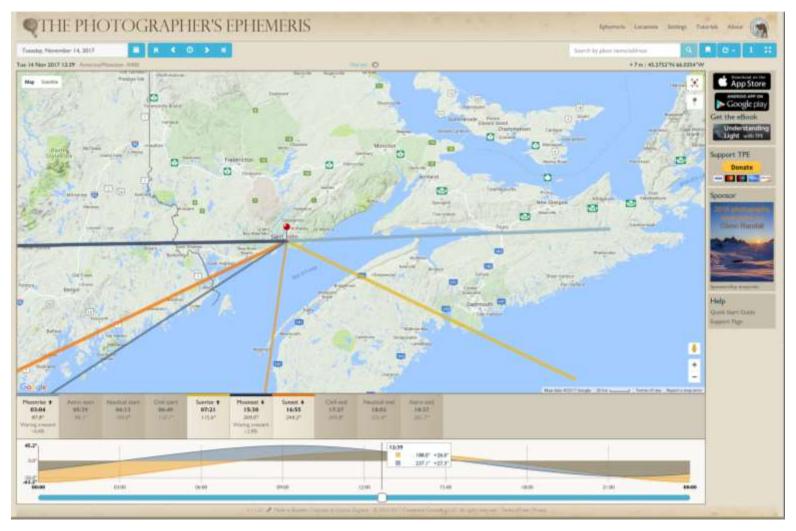


Home of the Saint John Astronomy Club.

https://www.windfinder.com/forecast/gardner s creek



http://app.photoephemeris.com/



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