



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

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

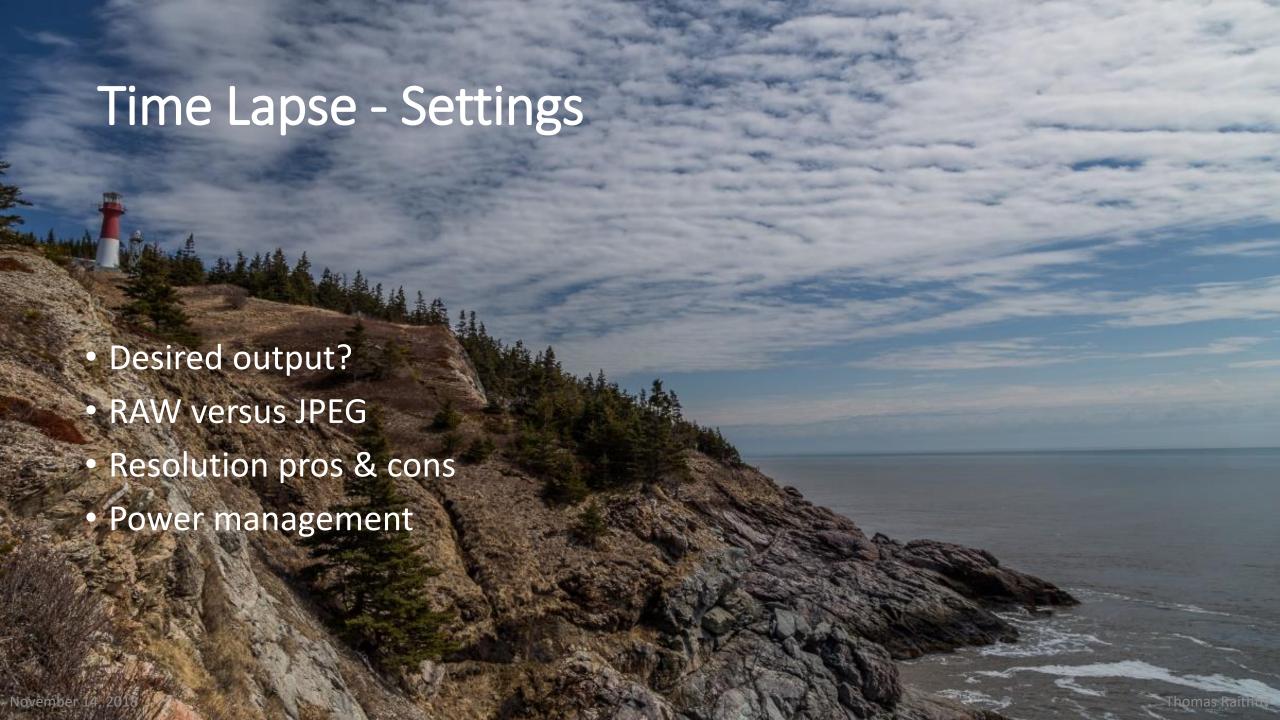
Time Lapse - Gear

- Tripod
- Intervalometer*
- Motion Control
- Exposure Control
- Filters (ND, Circular Polarizing, Protector)
- Camera
- Lenses (+ hoods)

- Power Battery Grip +
- Memory cards
- Plastic (protecting your gear)
- Lens Heater?

November 14, 2018

Thomas Raith







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
 - Adobe Photoshop
 - Applications Adobe After Effects, Premiere Pro
 - Overall flow, music?

November 14, 2018 Thomas Raithby

Time Lapse - Video

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

November 14, 2018 Thomas Raithby



Time Lapse Photography at Night

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

November 14, 2018

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! (seeing RED)
 - Higher ISO's
- It might be cold or wet or damp
 - Protection for you and your gear
 - Lens Warmers

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

November 14, 2018 Thomas Raithl



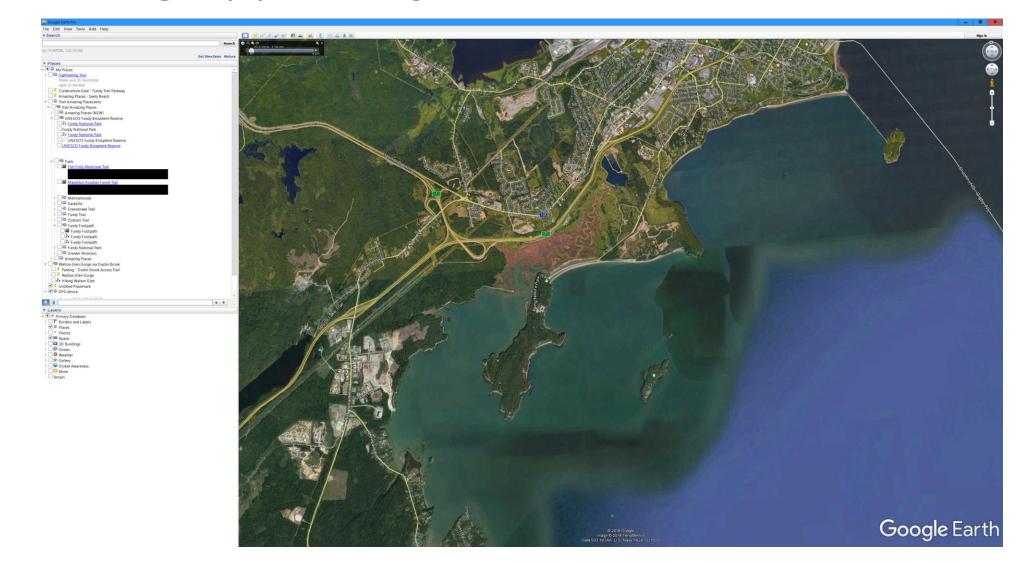
- Mark sequence starts with your hand (or a light)
- Consider a checklist for your settings
- Plan ahead
- Learn from your experiments
 - Field lessons what worked, what didn't?
 - Captures even if it wasn't what you planned...
- Clean the sensor & lens

Useful References

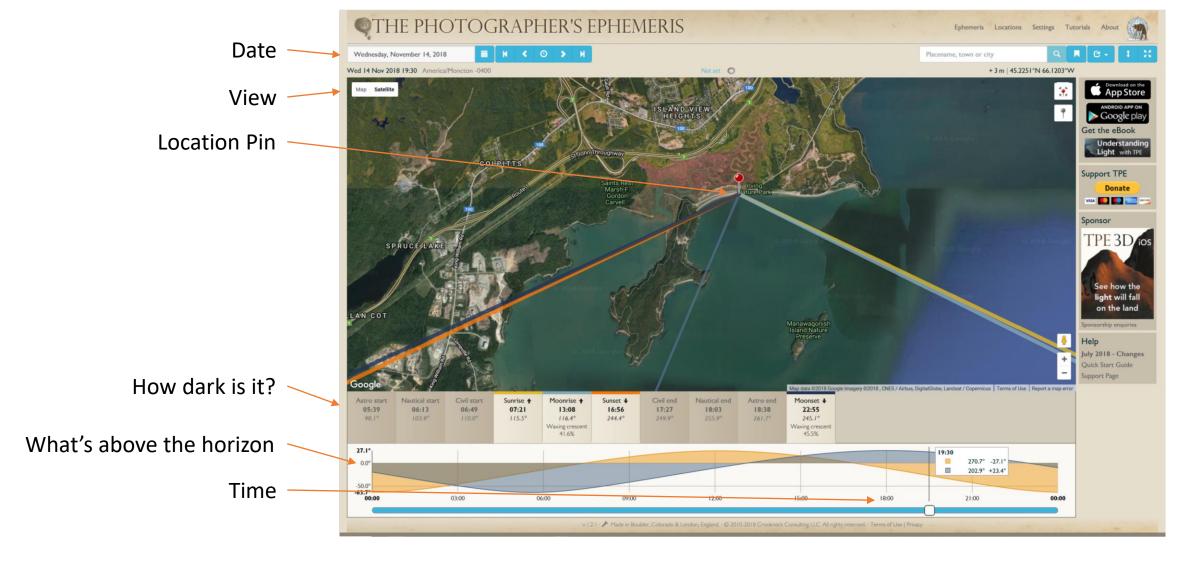
- My image processing is Lightroom-centric:
 - Adobe Lightroom Classic CC
 - LRTimelapse, Photomatix
 - Adobe Photoshop
 - Adobe Premiere Pro*, Adobe After Effects*
 - Photographers Ephemeris, Google Earth, Stellarium
- Books I'd recommend:
 - Chylinski, Ryan. 2012. <u>Time-Lapse Photography</u>.
 - Wu, Jennifer. 2014. Photography: Night Sky.

November 14, 2018 Thomas Raithl

Planning App: Google Earth



Planning App: The Photographers Ephemeris



Planning App: Stellarium

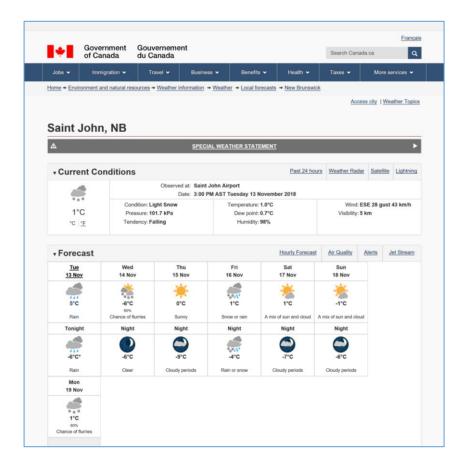


Timelapse Planning – Environment Canada

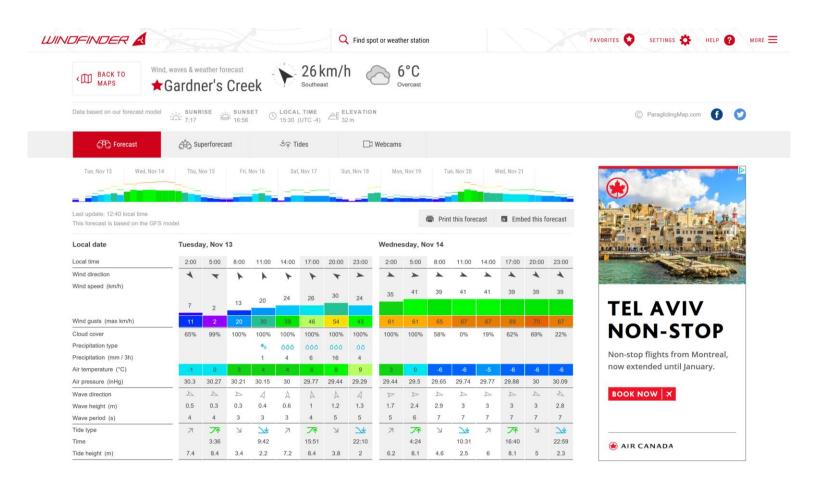
https://weather.gc.ca/city/pages/nb-23 metric e.html

Local 7-day forecast

- Good for trends & current conditions
- Sunrise & sunset at bottom of the page

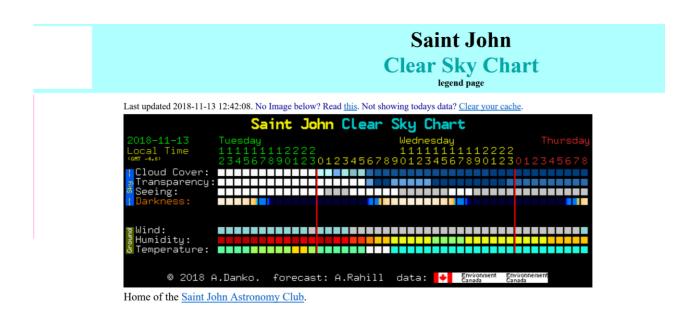


Timelapse Planning - Windfinder



https://www.windfinder.com/forecast/gardner_s_creek

Timelapse Planning - ClearDarkSky



Nifty Links: Sun & Moon Data Road Map Topo Map Civil Weather Satellite Predictions

| Star Map | CalSky | Light Pollution map | Forecast History / Climate | A Sponsored Feature |

What is it?

It's the astronomer's forecast. At a glance, it shows when it will be cloudy or clear for up to the next two days. It's a prediction of when Saint Jo

The data comes from a forecast model developed by Allan Rahill of the Canadian Meteorological Center. CMC's numerical weather forecasts a But they have 763 forecast maps. It can be a chore to find the one you want.

http://www.cleardarksky.com/c/SntJhnNMBkey.html?1

Some timelapse examples