

# Moonrise Over Split Rock

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By ColdSnap Photography

John Gregor

Christian Dalbec

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# Moonrise Over Split Rock

## Schedule:

Friday	1:00pm	Lighthouse Auditorium
	3:00pm	Field Shoot Trail Center Lighthouse State Park
	6:30pm	Field Shoot Done

# Moonrise Over Split Rock

## Saturday:

6:00am	Field Shoot Trail Center Lighthouse State Park
8:30am	Breakfast Northern Lights Restaurant, Beaver Bay
11:00am	Lighthouse Auditorium Presentation by Lee Radzak Split Rock Lighthouse Keeper—"Split Rock Thru The Ages"
1:00pm	Pizza Lunch at Auditorium
1:30pm	Presentation by John Gregor—"Making Your Images The Best They Can Be"
3:00pm	Field Shoot Trail Center Lighthouse State Park
7:00pm	Dinner at Camp 61, Beaver Bay(optional)

# Moonrise Over Split Rock





# Moonrise Over Split Rock

Sunday:

10:00am—2:00pm

Informal Open House at ColdSnap Studio



Directions: Hwy 61, just north east of Betty's Pies is Cty Rd 3, turn away from the shore, go almost exactly 5 miles, driveway is on the left

2437 Hwy 3

Moonrise Over Split Rock

A Basic Approach To  
Landscape Photography  
For Split Rock Lighthouse



# Photography Basics

- **Learn your camera and all of it's functions**
  - Take out your camera and set it to the Manual Exposure Mode
  - Set the shutter speed to 1 second
  - Set the Aperture or f-stop to f11
  - Look into the lens and trip the shutter release



# Photography Basics

## Proper exposure



# Photography Basics

Under exposure





# Photography Basics

Over exposure



# Photography Basics

Proper exposure





# Photography Basics

- Equipment and Technique
  - Exposure:  
Shutter=Time  
Aperture=Space























F 22





F 3.5











# Photography Basics

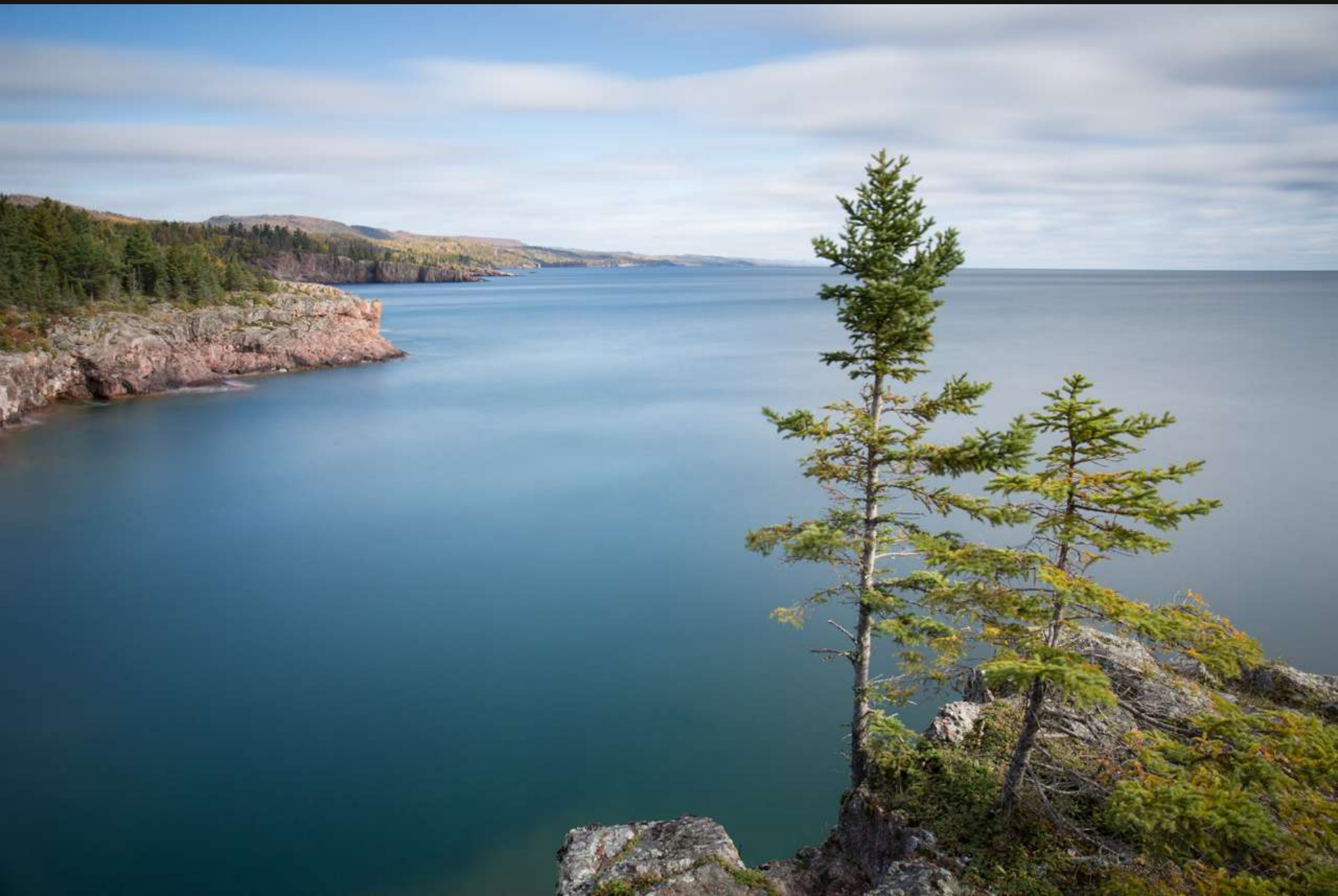
- Equipment and Technique
  - Exposure:  
Proper metering for proper exposure



















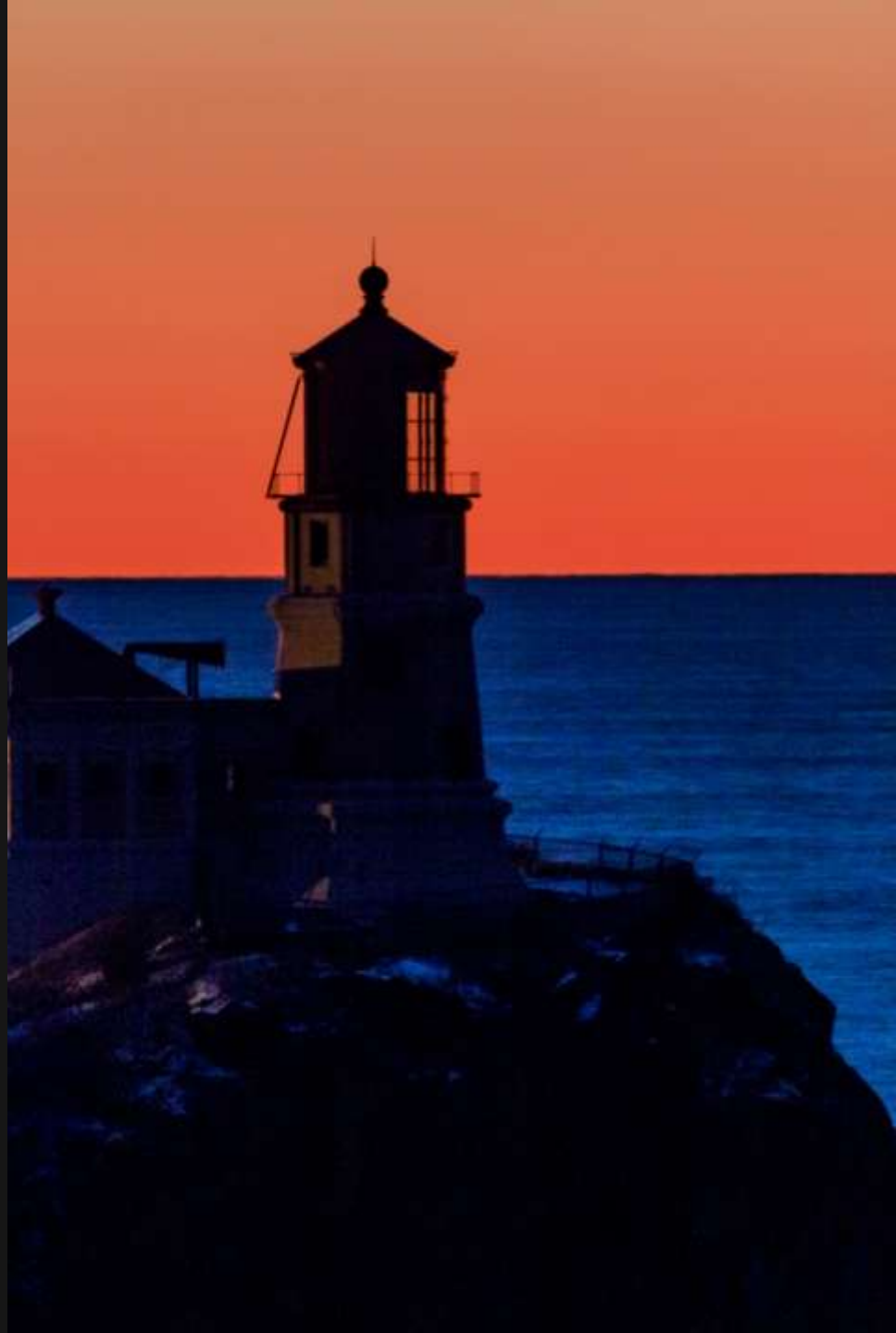




# Photography Basics

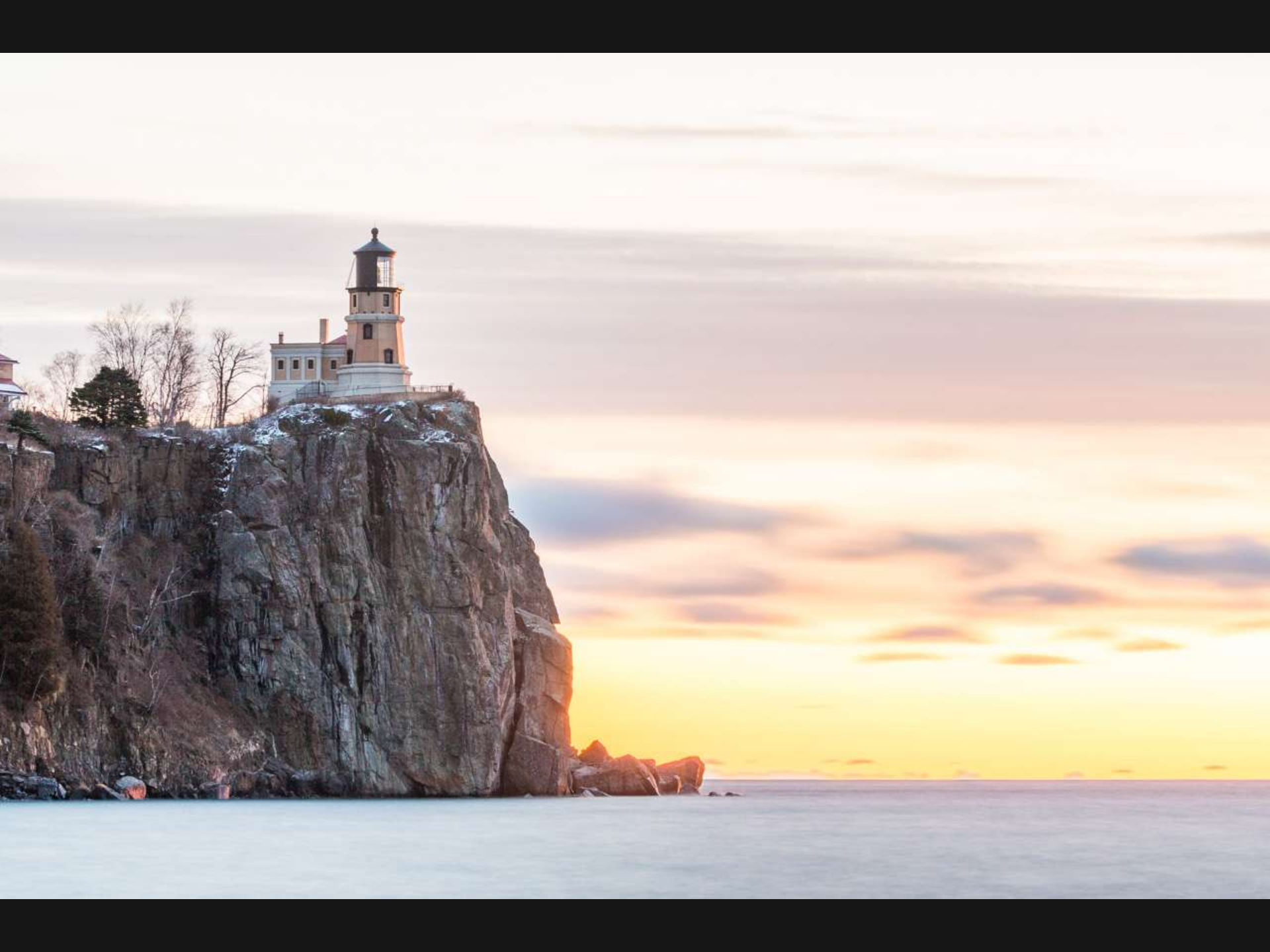
- Equipment and Technique
  - Exposure:  
Range of Light























# Photography Basics

- Composition
  - Depth of Field



62.8





f5.6





611





622



# Photography Basics

- Composition
  - Depth of Field
    - Determining the point of focus





F 3.5



F 32

# Photography Basics

- Composition
  - Depth of Field
    - The aesthetics of depth of field.





F 5.0



F 29

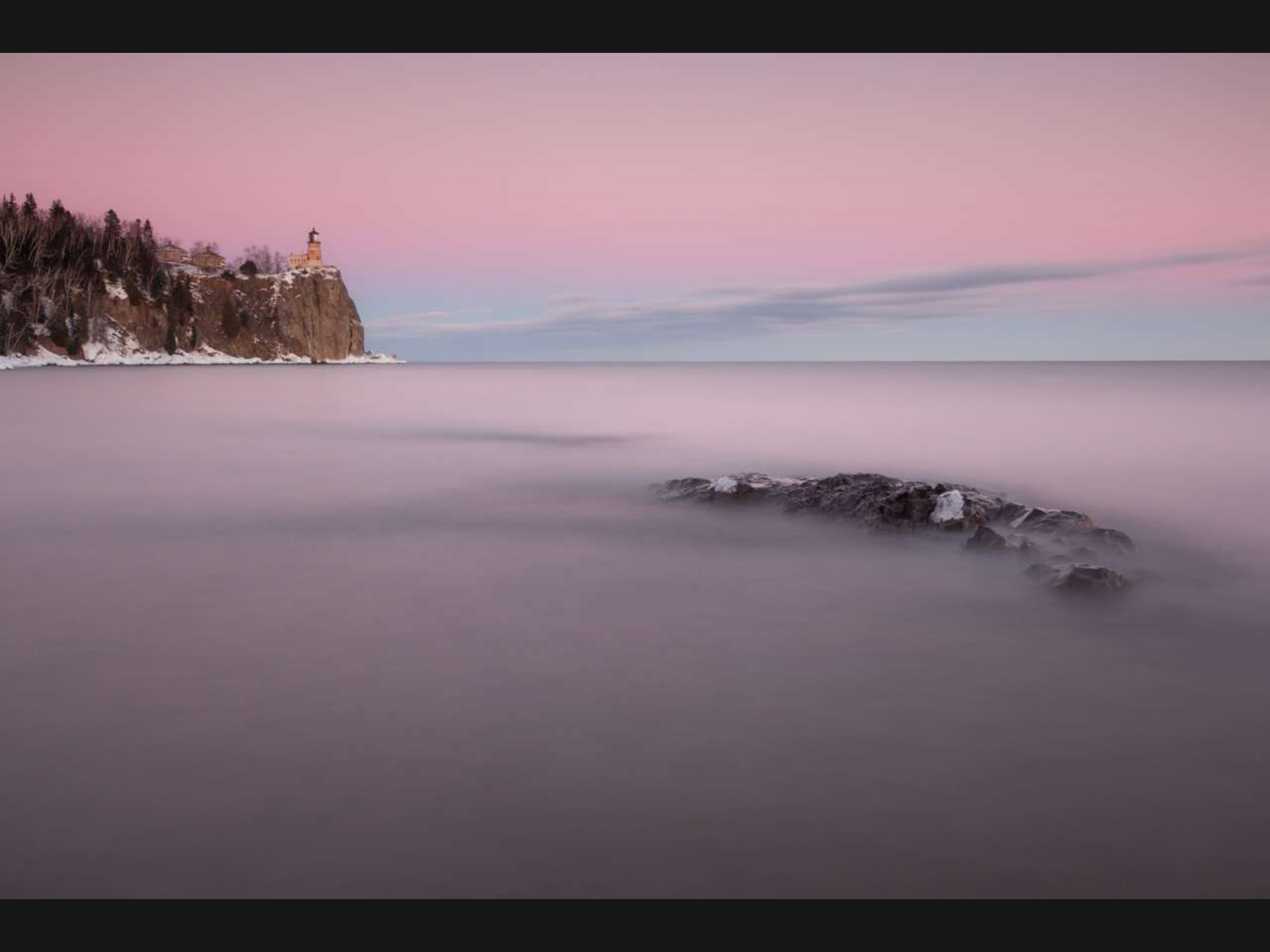






# Photography Basics

- Composition
  - Placement of elements in the frame













# Digital Basics:

- The digital process.
- Camera types.
- Camera settings, digital workflow begins with your camera.
- Saving your image files.

# Digital Basics

- The CMOS digital light sensor.  
What makes a digital image possible.

# Digital Basics

- Types of Digital Cameras

Size of the image sensor does make a difference:

- Point & Shoot
- Micro 4/3rds
- APS-C
- Full Frame



# Digital Basics



Difference in image coverage for a 15mm lens

# Digital Basics

- Camera Settings

Read your camera manual! Know how to change your camera settings.

# Digital Basics

- Camera settings that control picture quality:
  - ISO settings
  - Resolution (Image Quality)
  - White Balance
  - Proper Exposure
  - Focus & Camera Technique



# Digital Basics

- ISO and Image Quality:  
What is ISO?  
What difference does it make?

ISO





ISO 100





ISO 3200



# Digital Basics

- Resolution and Image Quality:  
What is resolution?  
What difference does it make?



# Resolution and File Size:

Capacity on a 512 Mb card for a Canon 20D camera:

- |                                     |            |
|-------------------------------------|------------|
| • Raw setting 3504x2335 pixels      | 27 Images  |
| • Large Fine Jpeg 3504x2336 pixels  | 66 Images  |
| • Medium Fine Jpeg 2544x1696 pixels | 112 Images |
| • Small Fine Jpeg 1728x1152 pixels  | 195 Images |



# Image Quality:



Image Quality; Small jpeg setting:  
Enlarged to 8x10 print:



Image Quality; medium jpeg setting:  
Enlarged to 8x10 print:





Image Quality; large jpeg setting:  
Enlarged to 8x10 print:



Image Quality; Camera Raw setting:  
Enlarged to 8x10 print:





# Digital Basics

- Image Quality:  
Raw format Vrs JPEG  
What difference does it make?



# Digital Basics

Jpeg = 8 bit    Raw = 16 bit



# Digital Basics

- White Balance

What is White Balance?

What difference does it make?

# White Balance Settings:

- Auto White Balance (3000-7000 degrees K)
- Daylight (5200 degrees K)
- Shade (7000 degrees K)
- Cloudy (6000 degrees K)
- Tungsten (3200 degrees K)
- White Fluorescent (4000 degrees K)
- Flash (6000 degrees K)
- Custom (2000-10000 degrees K)





# White Balance Auto Setting:





# White Balance Cloudy Setting:





# Digital Basics

- Exposure settings:

Exposure in digital photography is just as important as in conventional photography, perhaps even more so in some situations.

# Digital Basics

- Exposure settings:  
Histograms: what are they?  
How do we use them?

# Digital Basics

- Set your camera's function to preview + histogram.
- The histogram that is shown is a Jpeg histogram.  
Therefore only an approximation if you shoot in Raw mode.



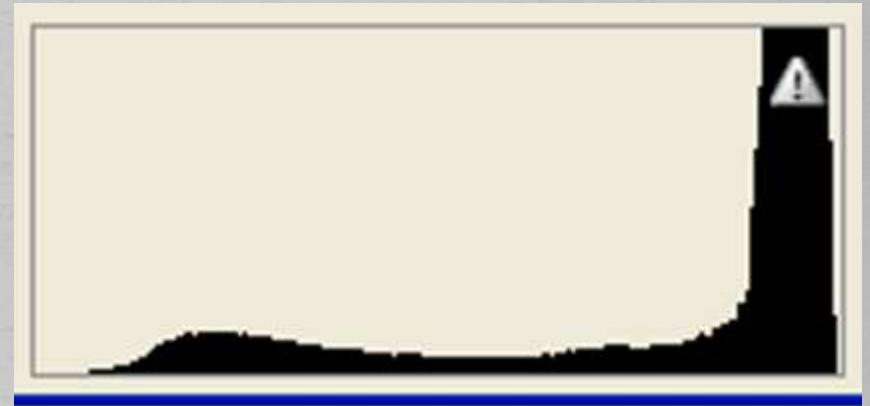
# Histograms How To Read Them:



# Histograms How To Read Them:



# Histograms How To Read Them:





# Digital Basics

- Exposure:

## Rules of Thumbs:

When shooting in Jpeg, a slight underexposure is preferable.

When shooting in Camera Raw a slight overexposure is preferable.

# Digital Basics

- Saving your image files:
  - If you shoot Jpeg, save the image as either a .TIF or .PSD file format
  - Jpeg's degrade in quality with multiple resaves.

# Photography Basics

- Vantage Point
  - Where to take the picture from?







Location 1: Lens Selection Wide to Long Telephoto

Location 2:  
Lens Selection Wide to  
Short Telephoto







Location 3: Lens Selection Wide to Long Telephoto



Location 4: Lens Selection Extreme Wide to Wide

Location 5:  
Lens Selection Long  
Telephoto





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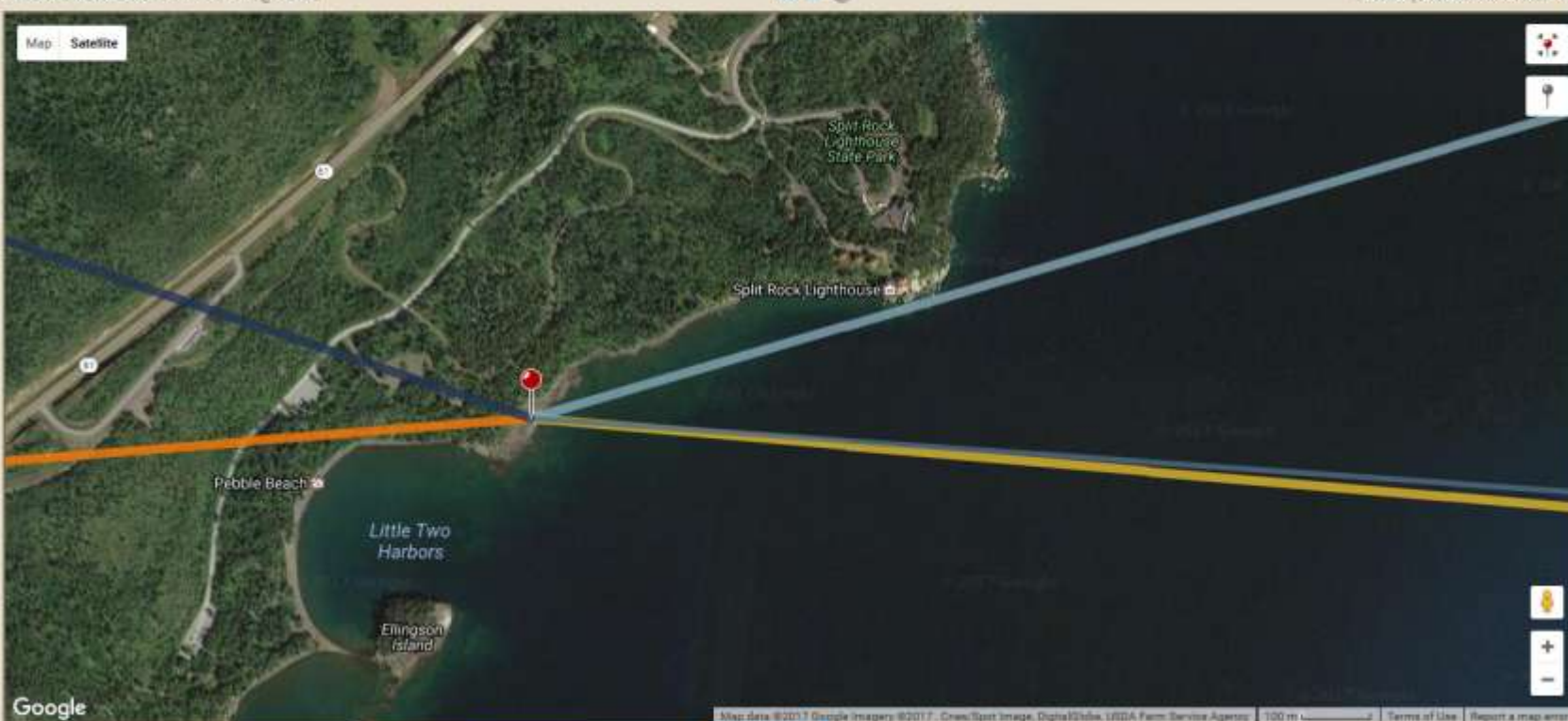


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Not set

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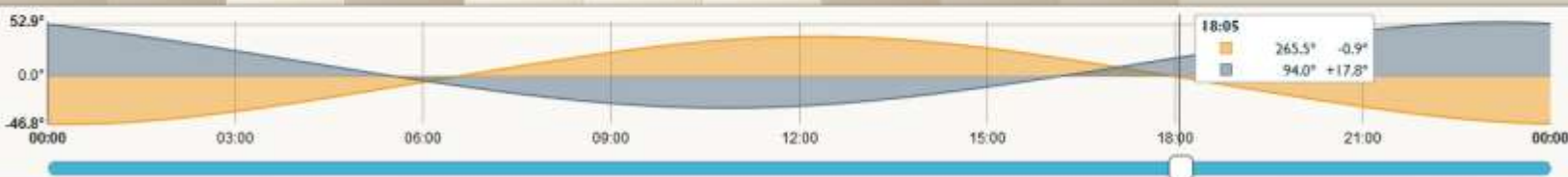
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Astro start 04:46 75.8°	Nautical start 05:21 82.7°	Moonset ↓ 05:32 288.7° Waning gibbous 95.0%	Civil start 05:57 89.3°	Sunrise ↑ 06:27 94.9°	Moonrise ↑ 16:09 72.6° Waning gibbous 96.8%	Sunset ↓ 18:04 265.4°	Civil end 18:34 271.0°	Nautical end 19:10 277.6°	Astro end 19:46 284.5°
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Plot set:

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Map Satellite



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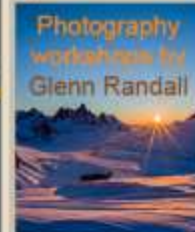
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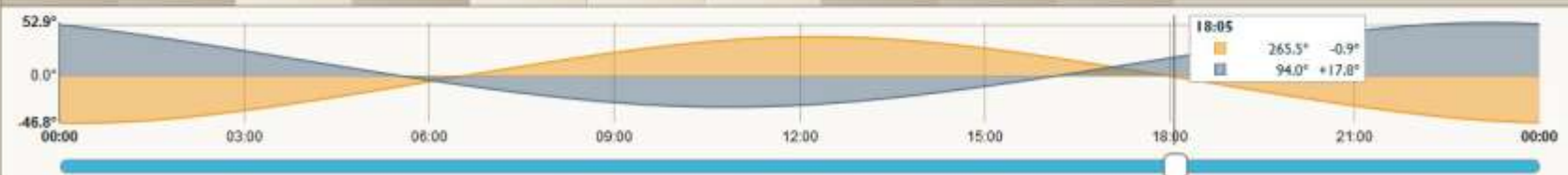
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Astro start 04:46 73.0°	Nautical start 05:21 62.7°	Moonset ↓ 05:32 288.7° Waxing gibbous 95.0%	Civil start 05:57 88.3°	Sunrise ↑ 06:27 94.9°	Moonrise ↑ 16:09 73.6° Waxing gibbous 96.8%	Sunset ↓ 18:04 265.4°	Civil end 18:34 271.0°	Nautical end 19:10 277.6°	Astro end 19:46 284.5°
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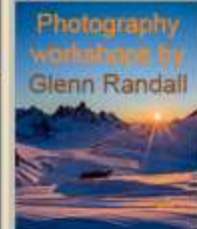
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Astro start 04:43 73.2°	Nautical start 05:19 82.1°	Civil start 05:55 88.7°	Moonset 06:05 283.3° Waxing gibbous 98.6%	Sunrise 06:25 94.3°	Moonrise 17:17 79.4° Waxing gibbous 99.5%	Sunset 18:05 266.0°	Civil end 18:36 271.6°	Nautical end 19:11 278.2°	Astro end 19:47 285.2°
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