





WHY IS THIS MAN HAPPY?





FOWL WEATHER



ISO 3200  
Is your  
friend





**CRAPPY CONDITIONS**













©Stanley Bysshe



# SO, What Are crappy conditions?

- A sunny day with a blue, bald sky.







# There is no such thing as bad weather, just bad preparation.

**\*Capt. Willie Roe**

- Why Shoot in bad weather?
- What to prepare for.
- Get yourself ready.
- Get your camera gear ready.
- Thoughts on techniques, shooting and processing



# Why Photograph in less than ideal conditions?

- Your Image is Likely to be More Interesting
- Turn the Mundane Iconic Shot into Something Amazing
- Harsh Conditions in Nature can Add to the Story



















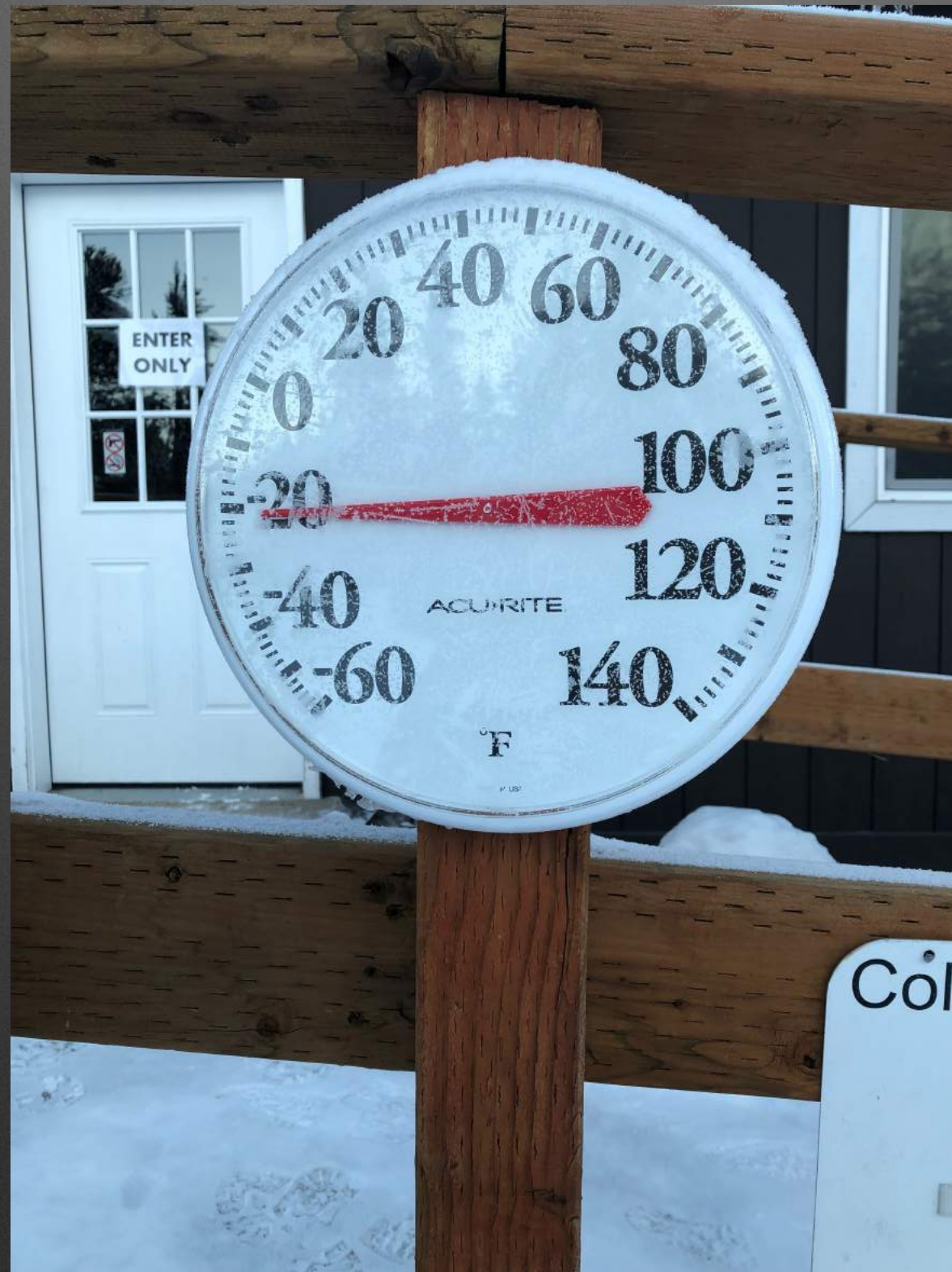








# What to expect





# Check weather apps

- Before you go on a trip look at the ten day forecast
- Check local conditions at home or on the road when planning to go out.
- Weather Underground, My Radar, NOAA Weather, TPE, PhotoPills, etc.



- It's not just about rain, or snow.
- Check for wind and temperature throughout the day.
- Look for fog possibilities.  
Temp equals Dew Point.



# How to stay comfortable in the elements

- One thing I learned from UW photography and it applies to land: If you are not reasonably comfortable it is hard to take good pictures.



# Cold!





# Layer up

## 20 below is no joke

- At least two of everything. Breathable and washable
- Lightweight long UW followed by Smart Wool (there are choices) long UW. Snowboard pants, rain pants.
- Lightweight socks, heavy Smart Wool, winter ankle (or higher) boots, Neos.
- Breathable top, down vest, down jacket and waterproof shell for warmer days. Switch shell to heavy waterproof down winter jacket for cold days







Home › Men › Bottoms › **Ski & Snowboard**



## Men's OutDry™ Glacial Hybrid Pant

**\$99.90** ~~\$175.00~~

Save 43%

★★★★★ (10)

Members get **free shipping** + 999 **Greater Rewards** points

Color: Charcoal Heather, Black

(3)



Size:

[Size & Fit](#)

<b>S</b>	<b>M</b>	L	XL
XXL			

Inseam:

30	<b>32</b>
----	-----------

Hurry, this style is selling fast!



**OUT OF STOCK**







REI Co-op

## REI Co-op Rainier Full-Zip Rain Pants - Men's Short



4.5 (4)

Item #127339

**\$89.95**

 This item ships for FREE!

REI Members get back an estimated **\$9.00** on this item as part of their [member dividend](#).


Color: Black



Size [Size Chart](#)

Select Size 

Quantity

 1 

☒ **Ship to address**

☐ **Pick up in store - Free**

[Find a store near you](#)

Add to cart



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[Neos Overshoe Size Chart](#)

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1-631-613-1427

## NEOS Size Chart

For the best fit, measure the outsole of your footwear and then compare with the inside dimensions.

	Inside Length*	Inside Width*
<b>XS</b>	10 1/8"	3 7/8"
<b>S</b>	10 7/8"	4 1/8"
<b>M</b>	11 1/2"	4 3/8"
<b>L</b>	12 1/8"	4 1/2"
<b>XL</b>	12 3/4"	4 5/8"
<b>XXL</b>	13 3/8"	4 3/4"
<b>3XL</b>	13 7/8"	4 7/8"

\*This is the Length x Width measurements of the inside of the NEOS Overshoe.



## Neos Adventurer Overshoe

Recommended as the best multi-purpose boot in the NEOS line. 100% Waterproof Overshoe. Calf-high coverage protects footwear and pant legs in snow or mud.

**\$89.95 ... including shipping & handling**

Please Select Size:

Quantity

[Add To Cart](#)

- Height: 15"
- Weight: 2.2 lbs
- 500 Denier nylon upper
- Duraflex Quick Release Buckle
- NEOS Perma sole
- Comfort rating: 0 Degree F
- 100% Waterproof
- Snowshoe compatible heel

**Please read sizing instructions ( [Link to Size Chart](#) ) for athletic shoes and boots!  
Do not order based on shoe size alone!!!**



1-631-613-1427



- Gloves..... Good luck. I have no secrets to keeping your hands warm while photographing in the cold.
- Chemical glove inserts work in modest cold.
- For me all the really warm gloves are just too cumbersome to run the camera.
- Electric hand warmers.





• The Heat Company

Roll over image to zoom in



Fits Hands Perfectly. Time to Get Cozy With Double Sided Warmth!





- Don't forget to keep your head and face warm.
- Mind your camera





# Wet





# Is Your Equipment Waterproof ?

- In general, the more expensive the camera, the more seals and O rings for dust and water protection.
- It is important to research your camera to see how weather protected it is.
- The same is true for lenses, but it is very hard to get manufacturers info.



# Every Camera Bag Needs These

- The best weather protection when you forgot it was going to rain
- Fits in every camera bag
- Can't beat the price





**Hefty**<sup>®</sup>

**STRONG**

MULTIPURPOSE

**30** GAL.

OFFICIAL BRAND



**28**

**30 Gallon Large Trash Drawstring Bags** Bolsas Grandes de Basura  
(113.5 L) 2 FT. 6 IN. x 2 FT. 9 IN. (76.2 cm x 83.8 cm) 1.05 MIL (26.6  $\mu$ m)



# OP/TECH USA 18" Rainsleeve (Set of 2)

B&H # OPRS18 • MFR # 9001132

**OP/TECH USA**



**In Stock**

Order **now** to ship **today**

**Free Shipping for this Item**

## Product Highlights

- For Camera with Lens up to 18" Long
- Protects from Dust and Bad Weather
- Controls are Easily Visible
- Drawstring Lens Opening

★★★★★ Reviews 288

8 Questions, 30 Answers



 Customer Photos



# AquaTech SSRC Large Sport Shield Rain Cover (Gray) B&H # AQ



**In Stock**

Order **now** to ship **today**

**Free Expedited Shipping**

## Product Highlights

- Fits Larger Cameras and Lenses
- Protects Camera from Rain, Dust, Mud
- See-Through, Rear LCD Window
- Requires a Sold-Separately Eyepiece

[Show more](#)

★★★★★ [Review 1](#)

[4 Questions, 9 Answers](#)

Size: **Large**

[Small](#)

[Medium](#)

**[Large](#)**

[Extra Large](#)



[+ Show More](#)





# AquaTech SSRC Large Sport Shield Rain Cover (Gray) B&H # AQ



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[Show more](#)

★★★★★ Review 1

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Extra Large



[+ Show More](#)







Think Tank Hydrophobia





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## LENScoat® RAINcoat PRO

[LCRCP]

Availability: **In stock**

LensCoat® RainCoat Pro provides protection for your camera and lens from the elements like rain, snow, salt spray, dirt, sand and dust while allowing you easy access to the camera and lens controls. The RainCoat pro is designed for use with DSLRs with lenses from 200-400/300mm 2.8 - 800mm f5.6. The RainCoat Pro is constructed from a lightweight waterproof, breathable poly tricot material. Available in Black, Green, Navy, Realtree® Max4, Realtree® Max5, Realtree AP Snow, Digital Camo, and Forest Green camouflage pattern. The seams are tape sealed for maximum protection.

NO dedicated eyepiece required.

The RainCoat Pro goes on quickly and easily. Its versatility through the use of the cinch straps allows you to adjust the length of the cover and to keep it snug around your lens. It has a fold out arm sleeve from its integrated pocket for access to the camera controls. You can





## LensCoat® RainCoat RS Large

LensCoat® RainCoat RS (Rain Sleeve) provides protection for your camera and lens from the elements like rain, snow, salt spray, dirt, sand and dust while allowing you easy access to the camera and lens controls. The RainCoat RS comes in three sizes Small (for camera body and lens up to 10") and Medium (for camera body and lens up to 15") and Large (for camera body and lens up to 21"). The RainCoat is constructed from a lightweight waterproof, breathable material. Available in Black, Green, Navy, Realtree® Max4, Realtree® Max5, Realtree AP Snow, Digital Camo, and Forest Green camouflage pattern. The tape sealed for maximum protection.

NO dedicated eyepiece required.

The RainCoat RS goes on quickly and easily. Its versatility through the use of the cinch straps (on Medium and Large Models) allows you to adjust the length of the cover and to keep it snug around your lens. Access the camera through the rear opening and the lens through the hook & loop bottom closure.

**From: \$69.99**

**[VIEW DETAILS](#)**



The Camera and lens are dry, but what about the Photographer?

- You will have a hard time thinking about image making if you are wet and miserable
- Lots of fancy expensive clothing but is it fully waterproof.







- When you are buying outdoor gear do some research. Water Resistance will get you through a shower but will not keep you dry when it is real wet.
- Fabric waterproof ratings. How much pressure can a fabric take and still keep out water. How much water in 24 hours can a fabric take.
- Are all the seams fully sealed, not stitched.



# WIND

















- Hard to hand hold in strong wind. Try and get low if possible. Place the camera on something solid.
- A tripod helps, if it is sturdy.
- Big lenses are weathervanes on a tripod. Use proper technique.







- Don't use the tripod center post (ever!).
- Some tripods have a hook that you can add weight to.
- High wind **AND** rain might be a show stopper.











There is one thing Crappy Conditions  
almost always have in common:

- **Challenging Low  
Light**





# Getting the image we want with the correct exposure

- Dealing with low light can often require higher ISO settings with the risk of more noise in the image.
- Working with the camera to capture the image and minimize noise.
- Working in post processing to get the best results.



- Let's start with your camera. That same price points for weather proofing apply to ISO capabilities.

In general the higher end cameras will produce more tolerable noise, when comparing ISO values to less expensive cameras.



- You have to know your specific camera's ISO capabilities. They might be better than you think but it requires field testing.
- You have to work the **ISO/F stop/Shutter Speed** Triangle.
- Shooting in manual mode or manual + Auto ISO mode.



- When can you sacrifice SS and DOF to lower ISO and still have a sharp image and correct exposure.
- Nature/Action shooters as well as Landscape shooters, even with tripods will have to consider using “uncomfortable” ISOs when photographing in low light.







# E.T.T.R

- Expose to the Right. There are a ton of articles about this. Always do it; never do it...
- This is a great technique to consider in low light, low contrast, high ISO situations.
- The point is to reduce noise and make it more correctable in post.
- Set up your camera to easily review the Histogram and highlight warnings (Blinkies).



- Nikon: Highlight Warning
- Canon: Highlight Alert
- Fuji: Highlight Clipping Warning
- Olympus: Highlight and Shadow control
- Sony: Zebras? Highlight Warning
- Remember the Histogram on your Camera is from a JPEG



Shoot to the  
Right?



## UNDEREXPOSED

Difficult to recover in post process. Results in overly noisy photographs. Avoid underexposure at all costs. Use a lower f/number, or lengthen the time the shutter is open.



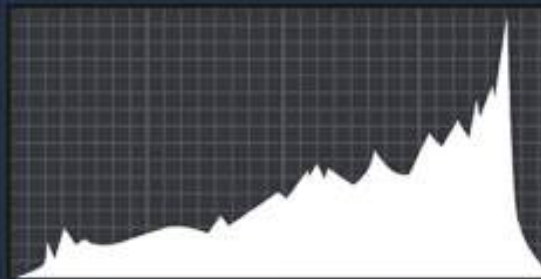
## EXPOSED TO THE LEFT

Generally acceptable, most common nightscape exposure with standard settings. Photo may get noisier if pushed in post process. Use a lower f/number or shutter speed if possible.



## NEUTRAL EXPOSURE

Safest exposure. Results may appear brighter than natural in the camera but can be easily pulled in post process. No need to change any settings.



## EXPOSED TO THE RIGHT

Best choice for the lowest noise but requires care not to overexpose. Results will look overly bright in the camera but can be easily corrected in post process.



## OVEREXPOSED

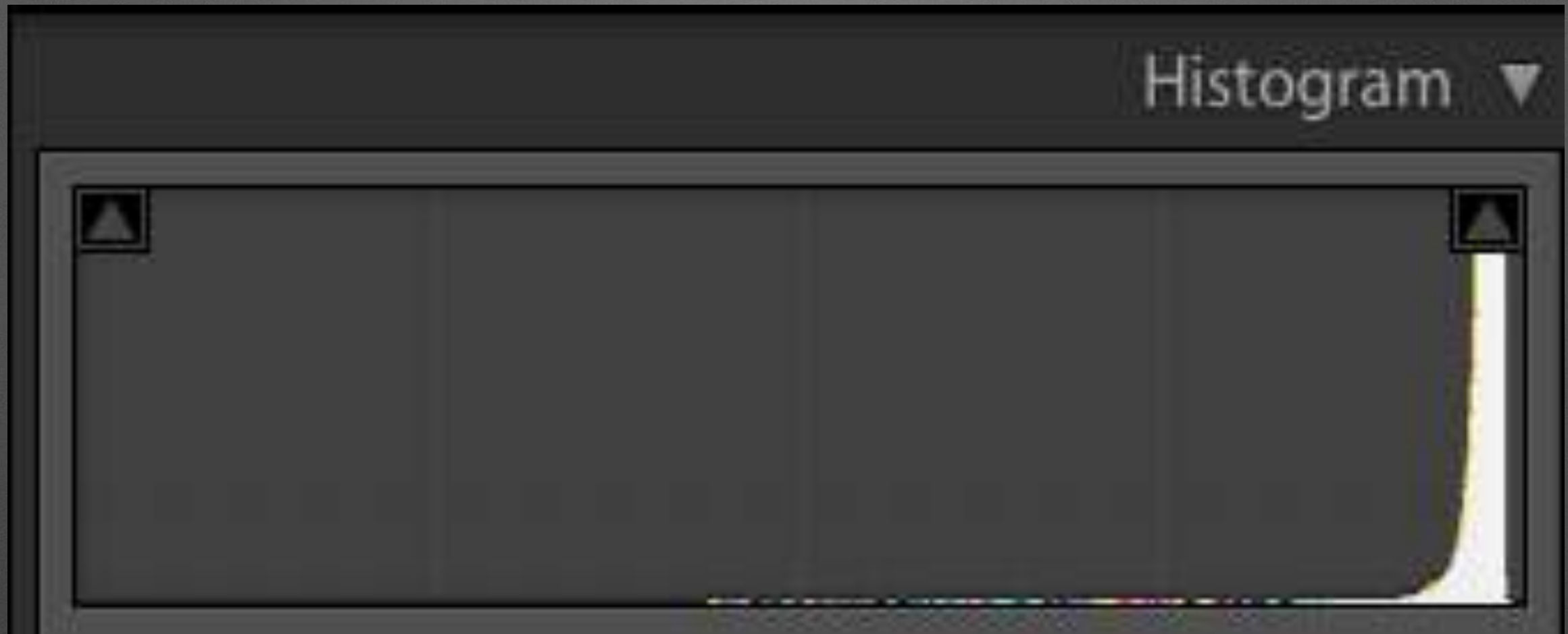
Difficult to recover in post process if highlights are overblown. Rarely occurs unless affected by moonlight or extreme light pollution. Use a lower ISO setting if overexposed.





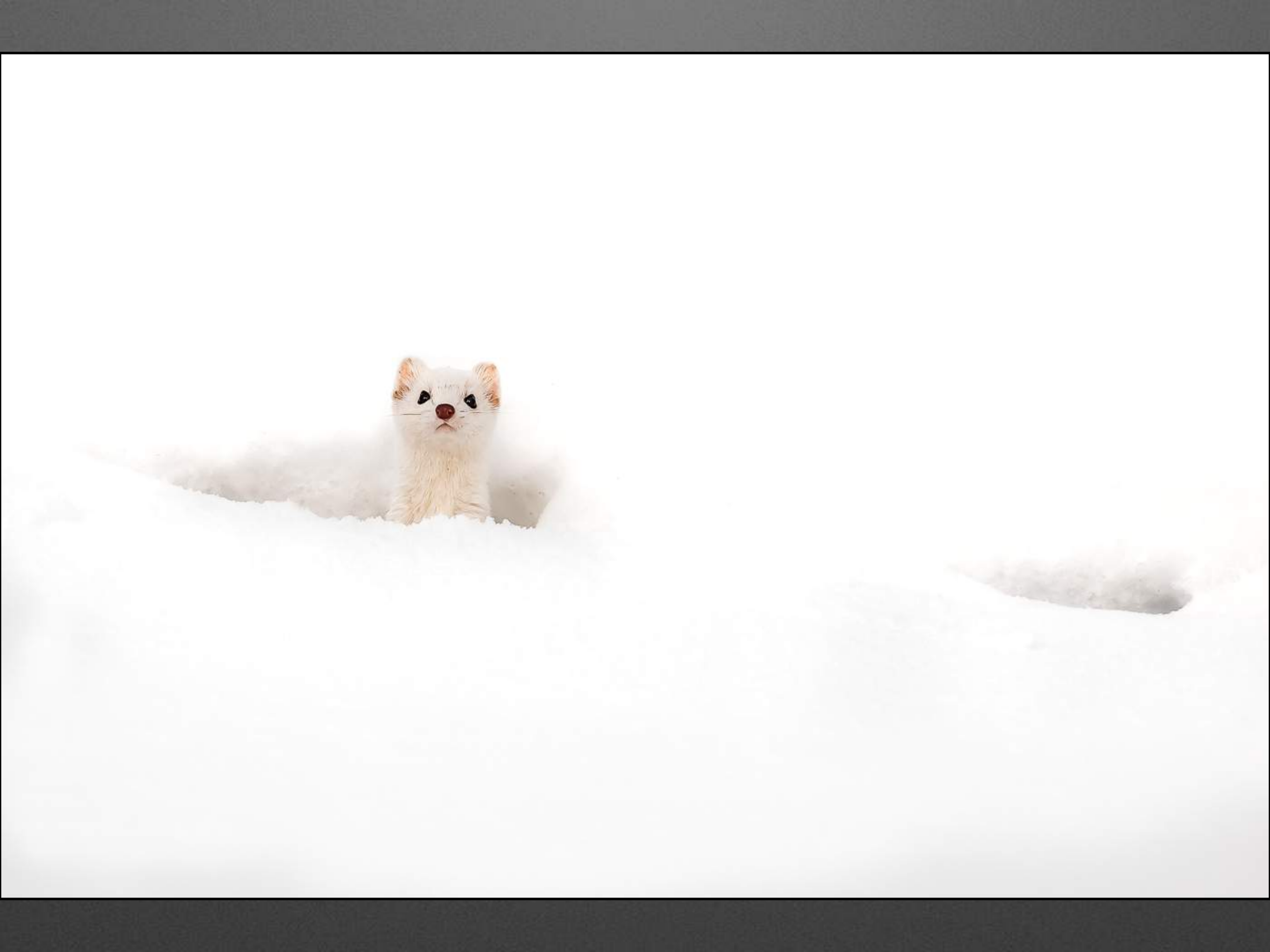
- ISO 6400
- SS 1/2000





- RAW Histogram







# Bottom Line

- Regardless of the physics, we are trying to produce an exposure in low light situations that gives us the least noise.
- To that end we need to pay attention to the cameras histogram and highlight warnings.
- Learn your cameras ISO tolerances by looking at your images in post checking the ISO values.



- Set the camera up so the histogram review screen displays immediately after taking the picture. And the next screen to scroll to is the Blinkies. (Some screens have both.
- Mirrorless shooters with an EVF can see exposure in real time and make changes on the fly.
- **Auto ISO:** Sports and Nature. Will cover 70-80% of your shooting. I can't think of a reason to use it in landscape work.
- SS and Aperture are what nature photographers are concerned with and often can let the camera do the rest.





**F6.3, SS 1/3200, ISO 4500, Auto ISO**









- F9.0, SS 1/1250, ISO 400







- Manual without Auto ISO when low light is not the issue.
- Landscapes, consider handling wide exposure ranges with HDR
- When the subject is moving through BGs of different light intensity. The camera will get fooled. (In that case manually expose for the subject and let the BG exposure fall where it may.)
- Mirrorless shooters with EVFs see the Histogram in real time and can make the changes on the fly.



- Check your camera before shooting. Make sure SS and Aperture are correct.
- Try to fill the frame, to avoid cropping in post.
- Shoot sharp images.



When all else Fails  
Go Slow







- F4, SS 1/100, ISO 6400 Hand Held



So your High ISO Images have some  
**Noise.**

What do you do?

- Lightroom. All the BASIC LR adjustments are also in Photoshop Camera RAW Filter.
- LR + NIK Dfine 2
- LR + Topaz DeNoise AI
- LR + PS Layers
- On1 Photo RAW or Luminar noise reduction