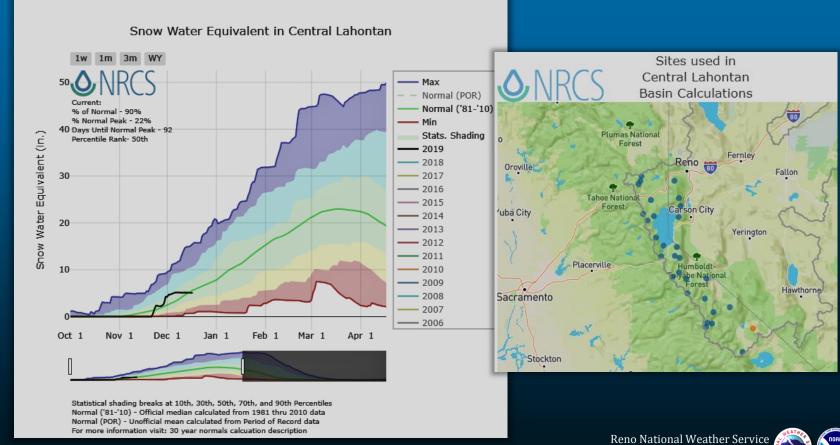
# Winter 2018-19: Will it be "Tremendously Big and Tremendously Wet"?

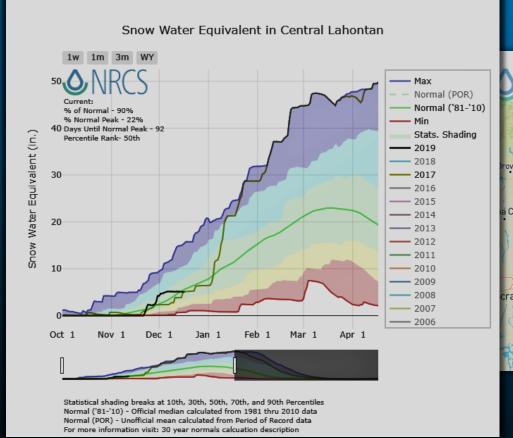
Chris Smallcomb Meteorologist (PIO) – NWS Reno chris.smallcomb@noaa.gov

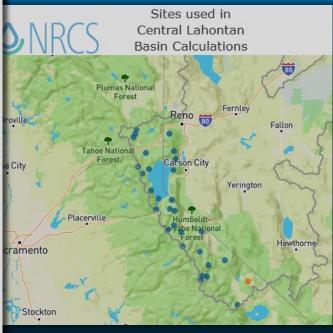


## How's the Winter Snowpack Starting Off?

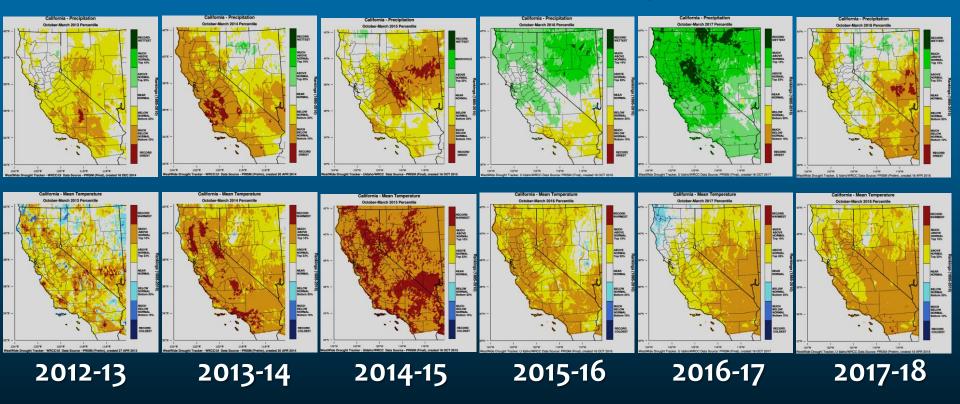


### Compared to Water Years 2018 and 2017??

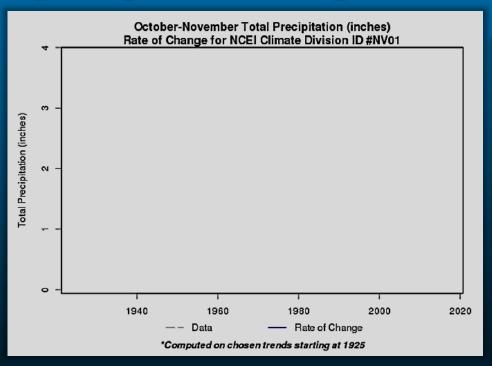


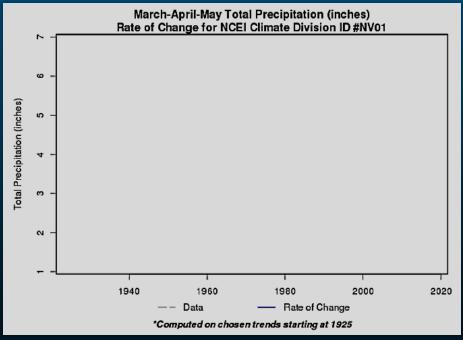


#### **Recent Winters** Variable Water, Consistently Warm!

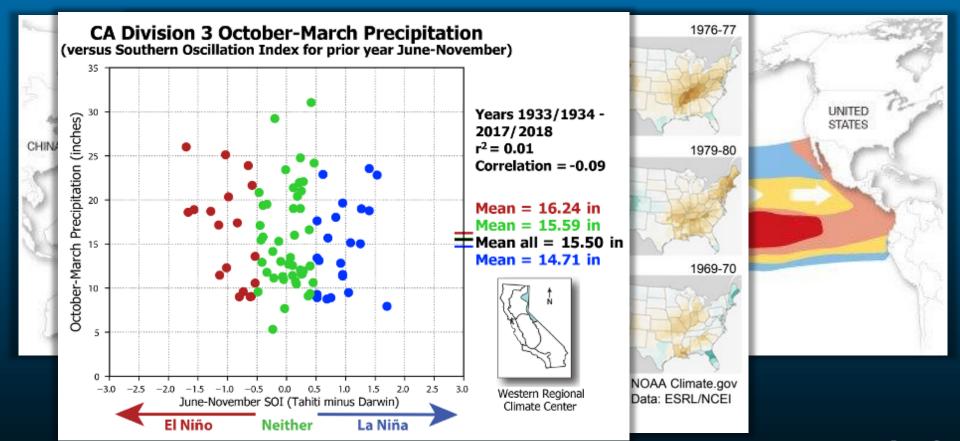


## **Are Western Nevada Falls Getting Drier, and Springs Trending Wetter?**





#### **El Niño** Everyone's Favorite Winter Topic





#### Hazard Focus Off-Season Wildfire



#### **WORRYSOME SCENARIO**

- 1) 70+ MPH wind gusts
- 2) Humidity below 20%
- 3) Delayed start to winter storms and/or prolonged dry period

Prepare Now! WILDFIRE KNOWS NO SEASON

LivingWithFire.info

WINTER

Round Fire February 2015





## Hazard Focus Post-Wildfire Debris Flow & Flash Flooding

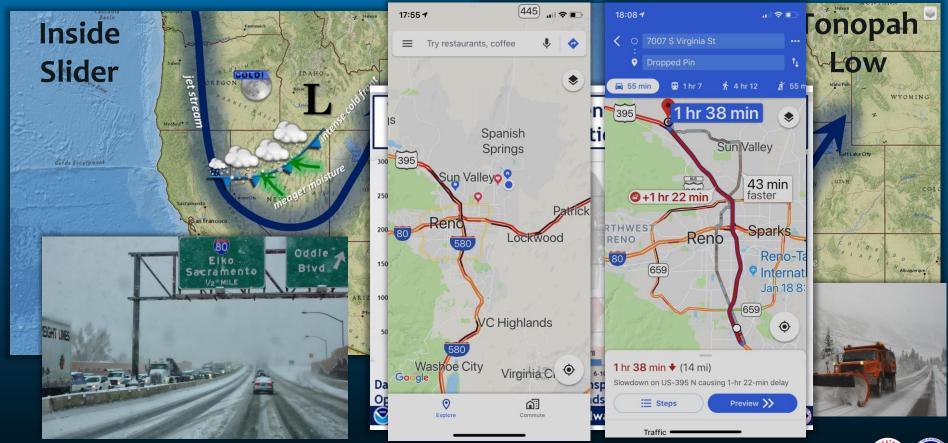


## **WORRYSOME SCENARIOS**

- **RAPID: Thunderstorms or cold** frontal rain band with 15 minutes of intense rainfall. 1/4" in 15 minutes is enough to trigger debris flows.
- **GRADUAL: Atmospheric river with** 6-12 hours of moderate rain slowly saturating soils to point where they give way in flash flooding.



## Least Predictable Snow Hazards



## **NEW - Snow Squall Warning**



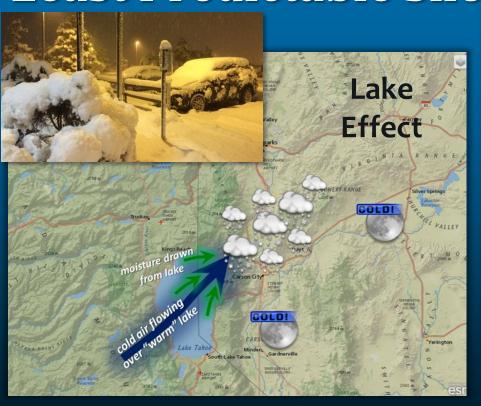


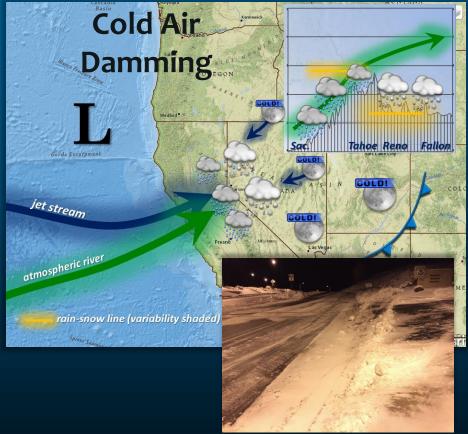
#### Sierra + Western Nevada Notes

- Most likely scenarios to be used: heavy lake effect snow OR fast moving inside slider OR Donner Pass squalls.
- We'll focus on highest impact scenarios such holiday travel periods and commutes.
- Radio between 5 AM and 9 PM.
  Uses SQW SAME Code but not an official EAS warning.
- 4) Available on cell phone alerts (WEA) after this winter.Starting May 2019.



## Least Predictable Snow Hazards





## **Public Messaging for Snow?**





Multiple vehicles no Rd. above Dog Vallalternative, do not b #nvflood17





This is the law enforcement center downtown. That building you can barely see is the courthouse 250 feet away.

Visibility is poor, road conditions are poor, and your decision making is poor if you're able to stay on your couch and you don't.

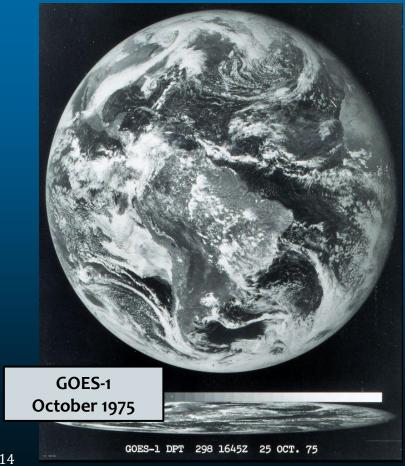


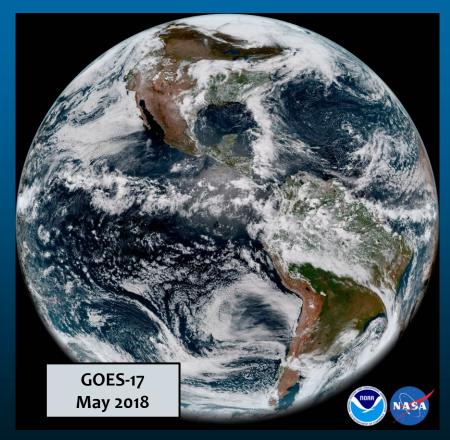






## **Shiny New Satellite - GOES 17**





#### GOES 17 - Who Cares!?

## High Resolution, Rapid Scans

Wildland fire detection, dust storms, t-storm formation

## **Lightning Detection**

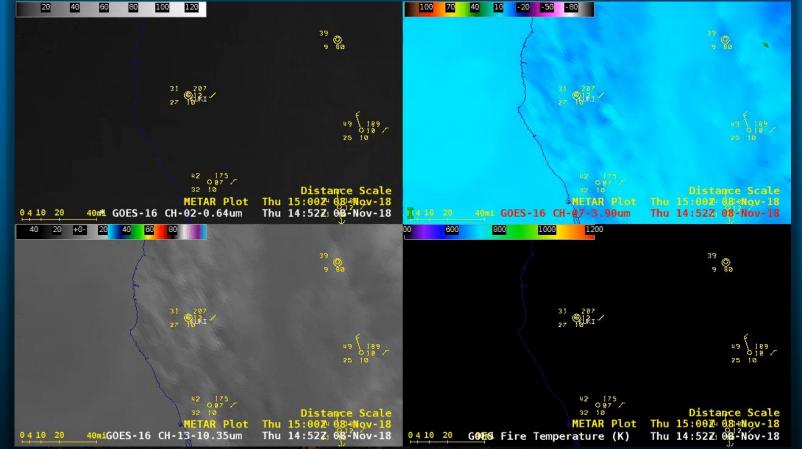
In-cloud lightning = lead time on severe storms in poor radar areas

## Improved Global Forecast Simulations

9-10x more data vs older GOES – 1TB/day – 16 channels



## GOES - Wildfire Detection Camp Fire - Nov 2018





## GOES 17 – Fog & Low Clouds

