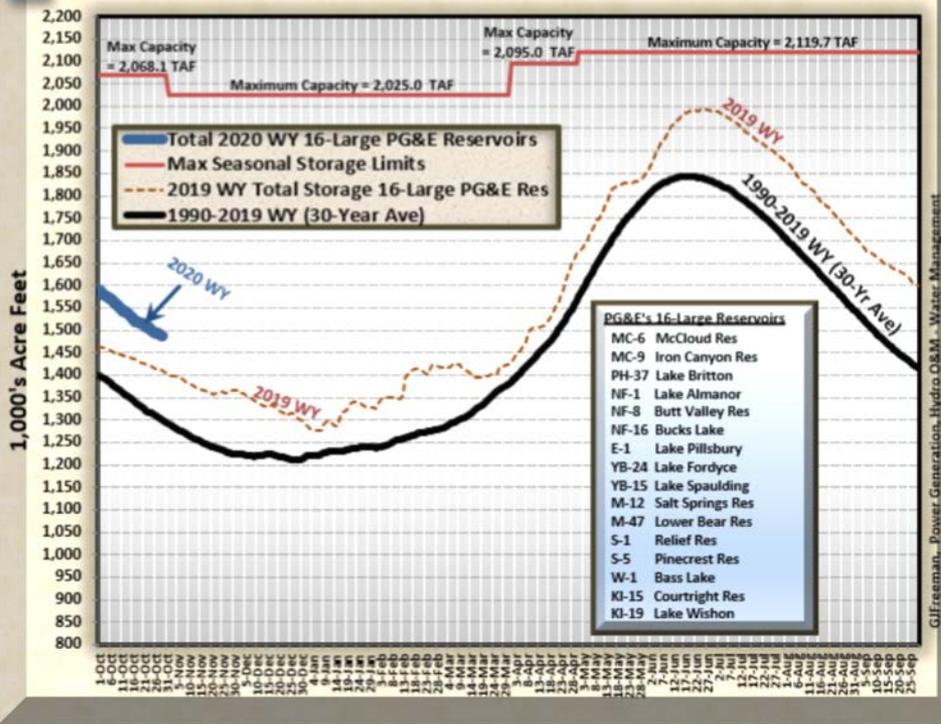


# Total Storage 16-Large PG&E Reservoirs

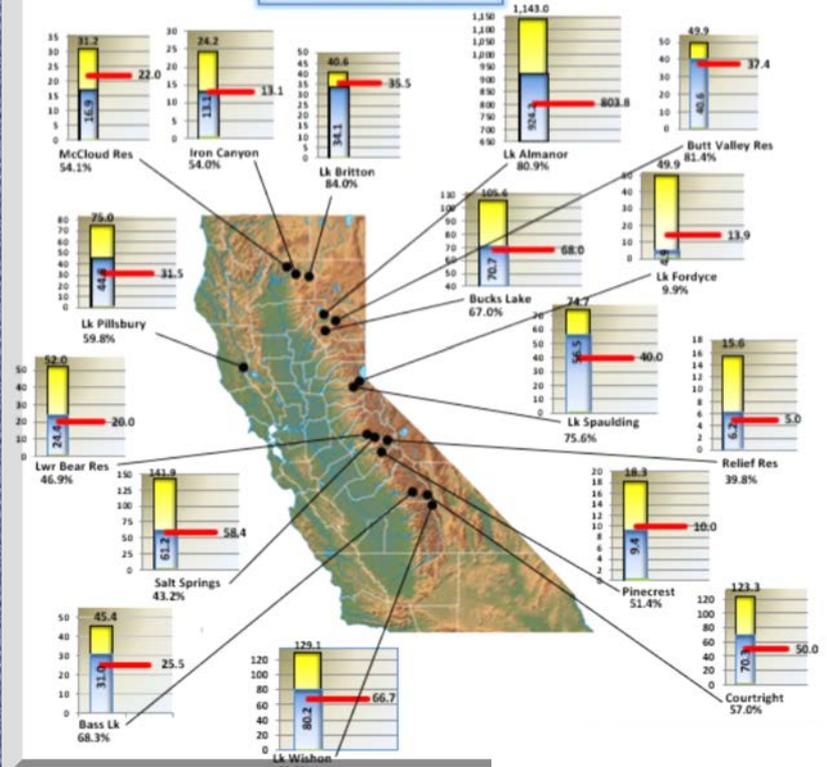


Gary Freeman, Principal  
PG&E Water Management  
San Francisco

## RESERVOIR CONDITIONS

### PG&E's Large Reservoirs

Ending Midnight: **October 29, 2019**





Relatively low Elevation Sierra Barrier Jet flows northward from about the American River encountering the Yuba and Feather River Basins.

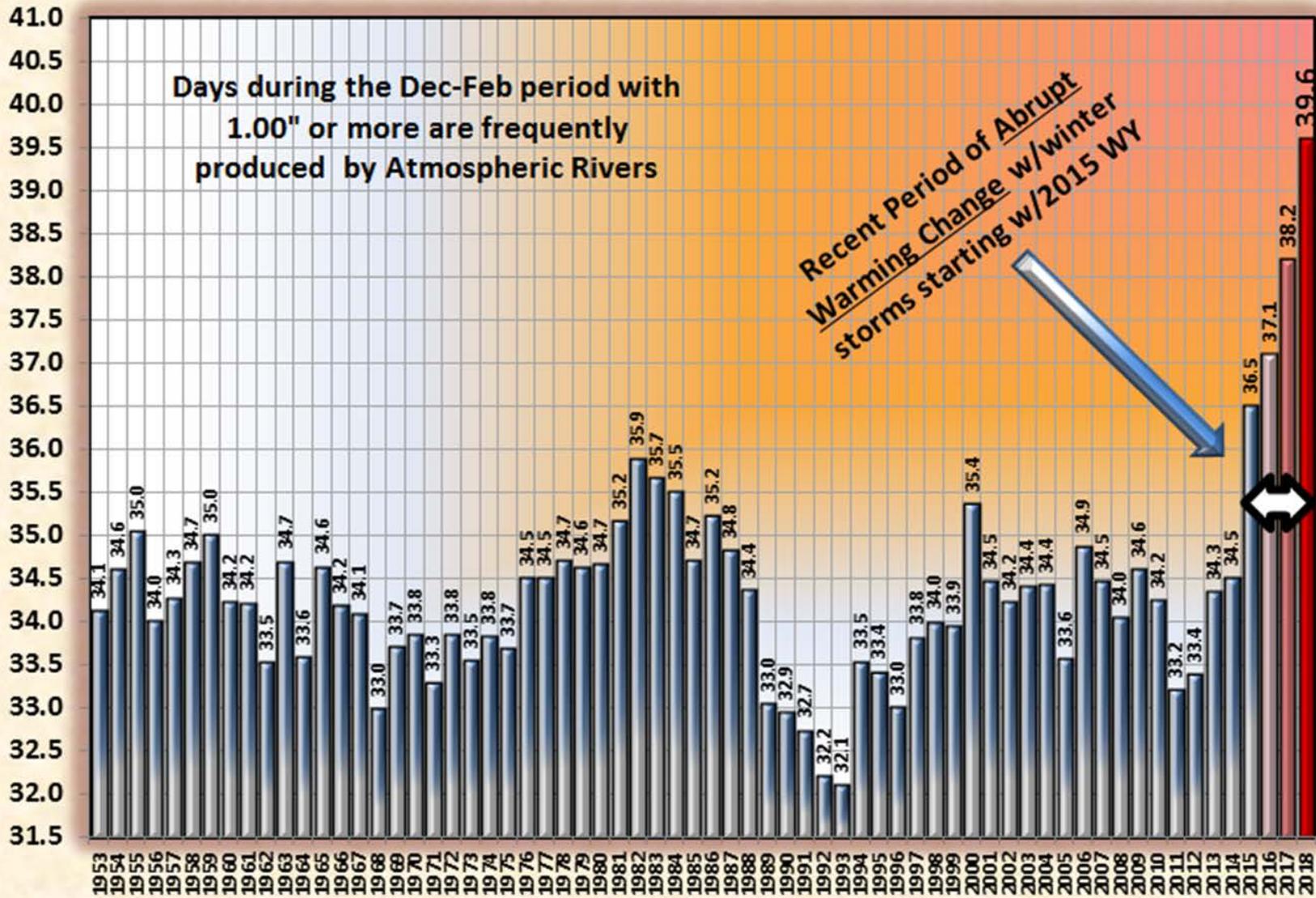
Snow courses and Sensors south of the Feather are a relatively good predictor for regression type runoff forecasts.



# Monthly Average of Dec-Feb Average Minimum Daily Temperatures at Salt Springs PH only for Days with Precipitation (Salt Springs PH) that Equals or Exceeds 1.00 inch

A 5-Yr Moving Average Filter was applied to help dampen year-to-year variation

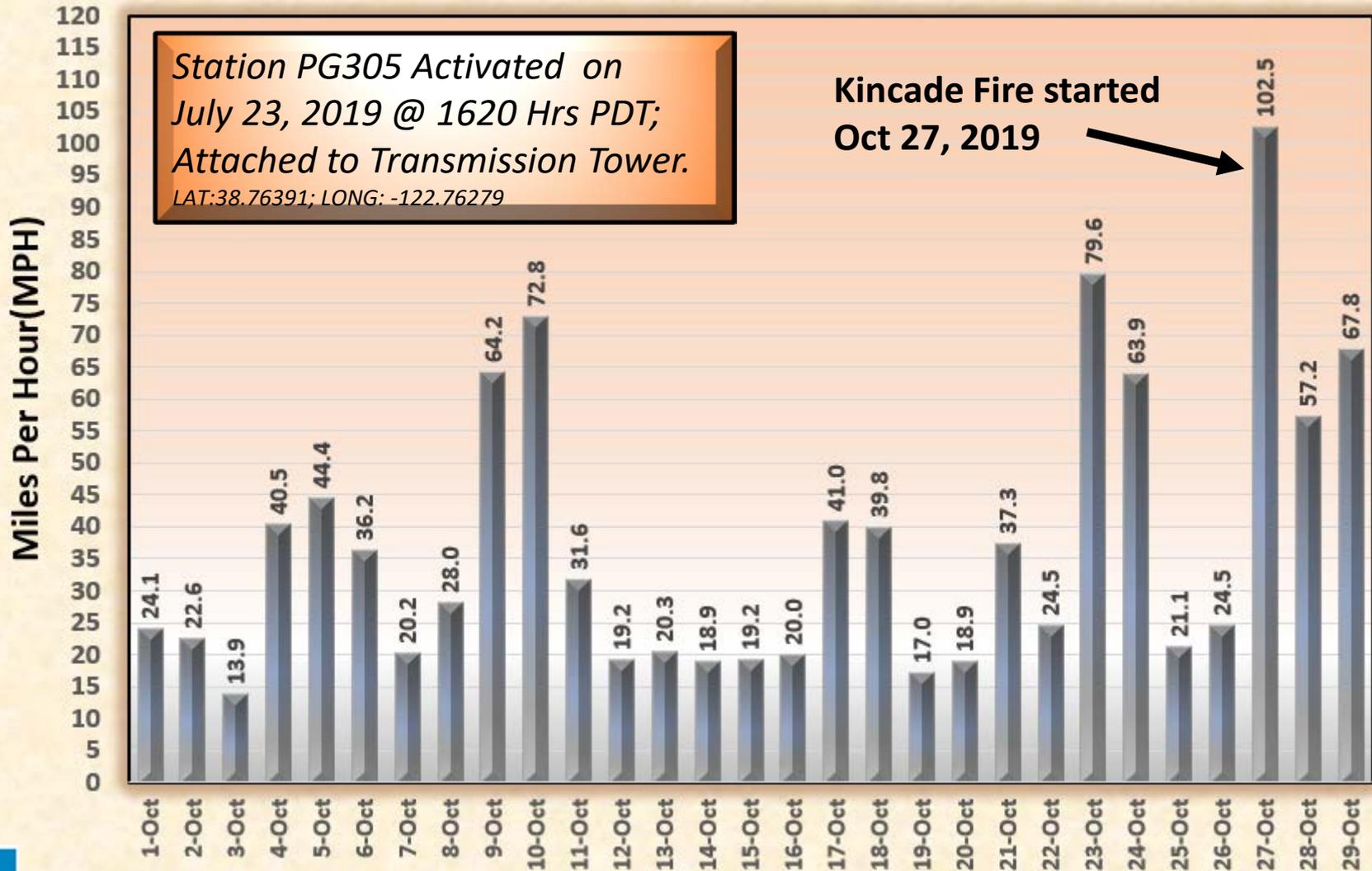
Minimum Temperature in Degrees F





**Installing PG305, a wireless solar-powered weather monitoring station on a transmission tower at elevation 3,308 feet above Pine Flat Road in the Mayacamas Mountains of eastern Sonoma County on Tuesday, July 23, 2019**

# Maximum Daily Wind Gusts in MPH For Station PG305, Pine Flat Road, Sonoma County; Elevation 3,308 feet; October 1 through October 29, 2019



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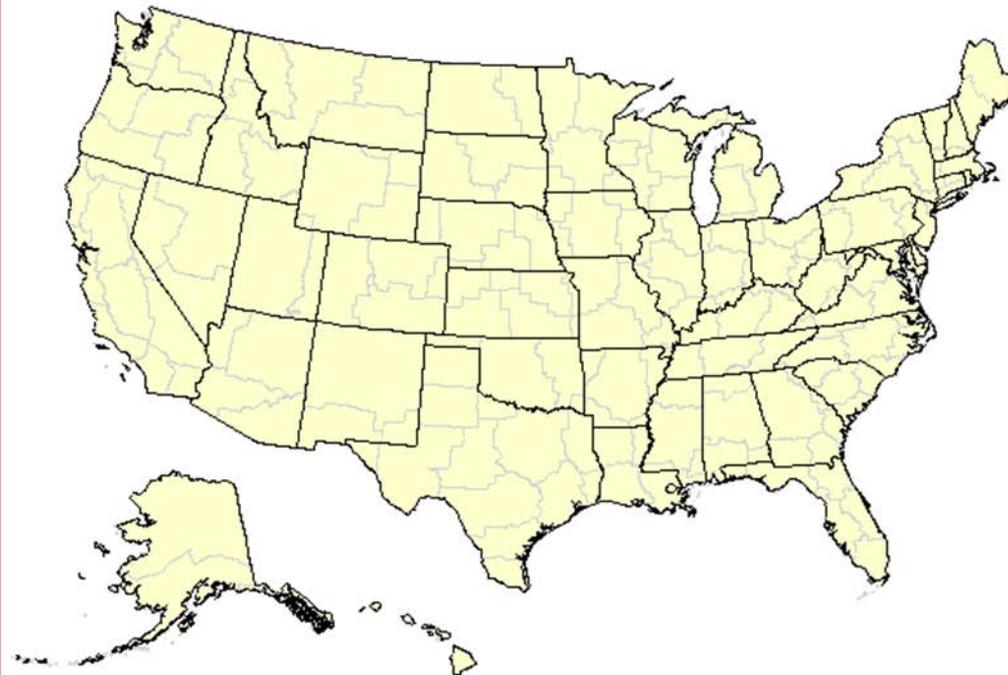


# MESO WEST



## States

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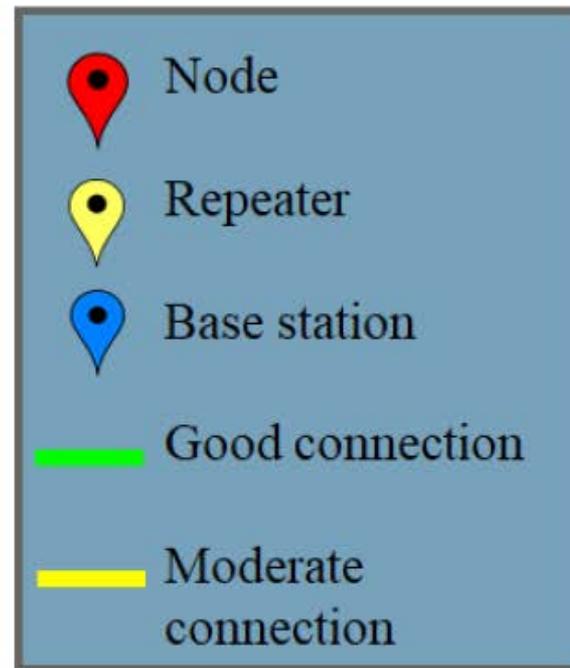
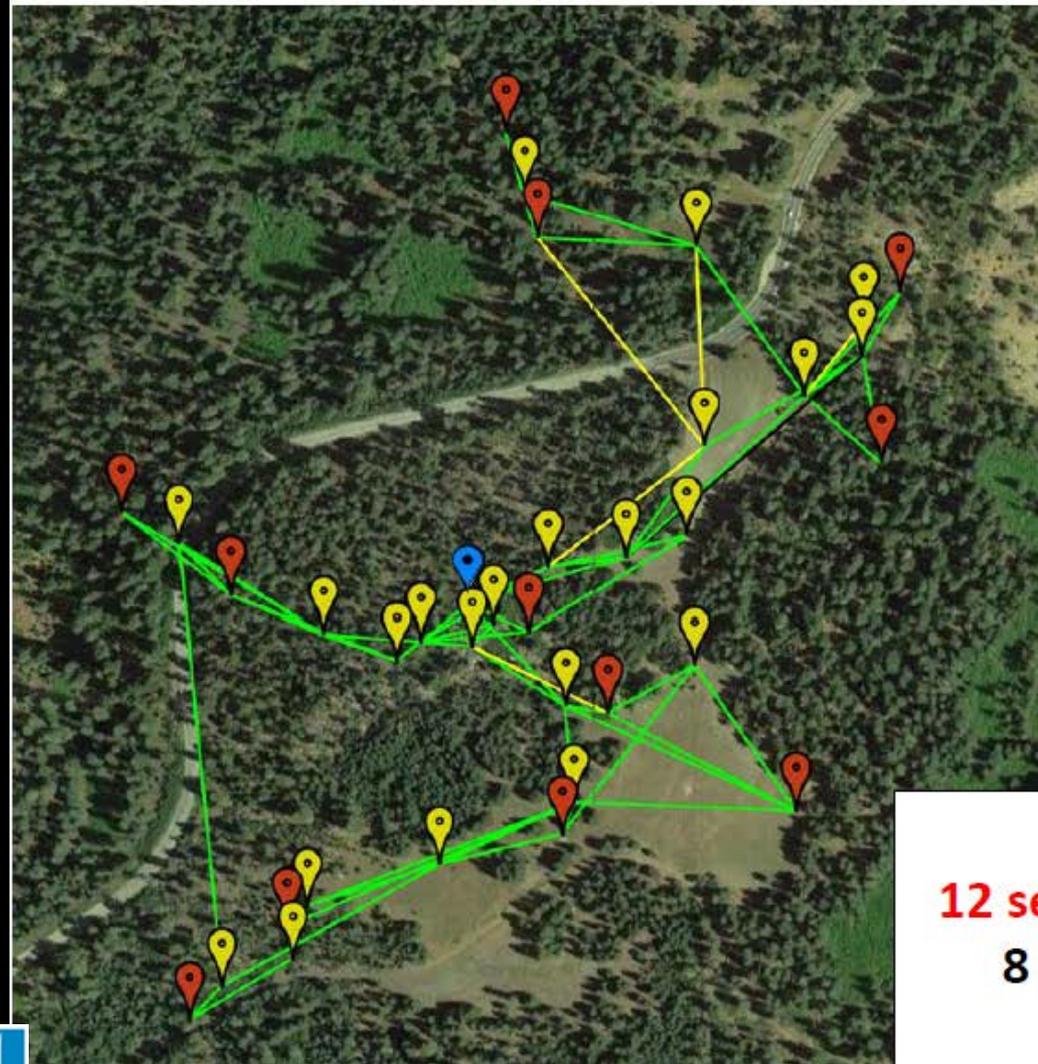
## Plans are in Place to Cloud Seed during the 2020 winter Season on the Upper No. Fork Mokelumne River

Pacific Gas and Electric  
Meteorological  
Technician Steve Tissot  
climbs a ladder as he  
prepares to inspect a  
cloud-seeding machine



# Real-time wireless-sensor networks

Four Networks Operational on Upper North Fork Feather River

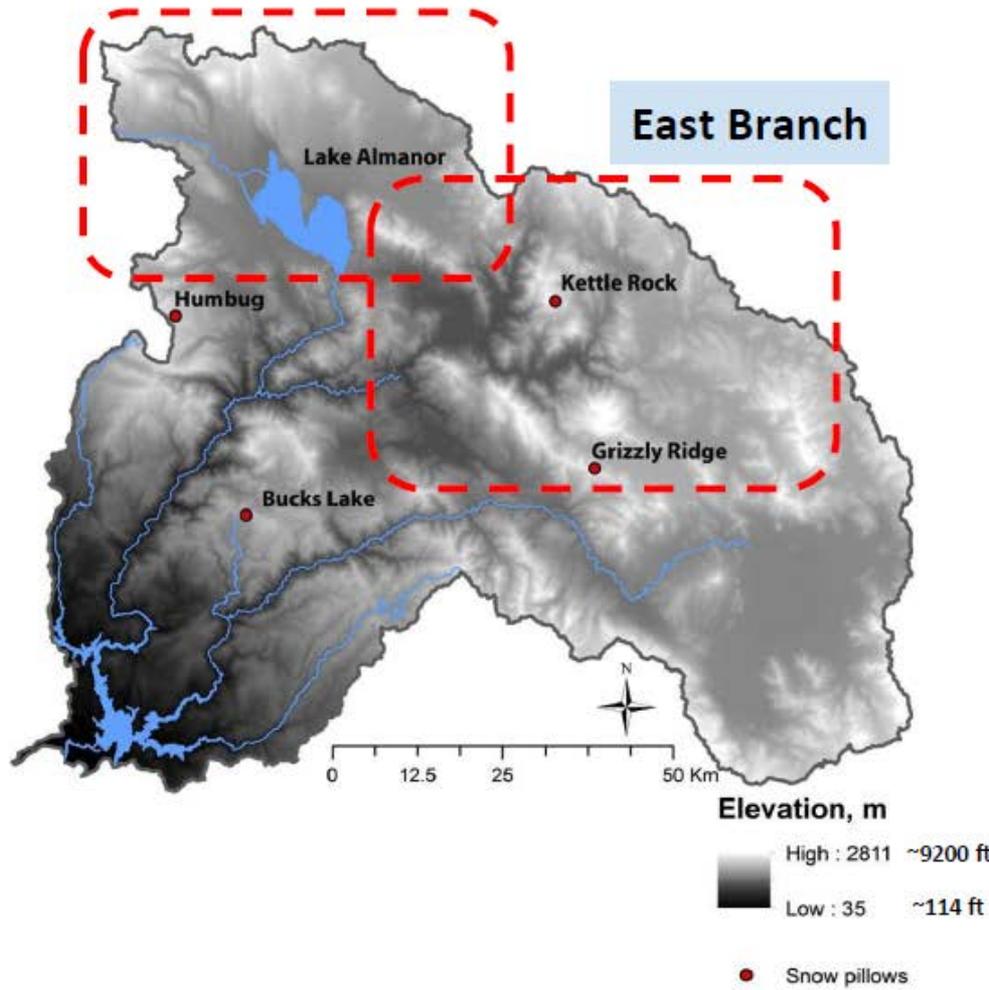


Four key locations  
**12 sensor nodes** for each location  
8 to 12 Ha spatial resolution  
(20 to 30 ac)

## Almanor

# North Fork Feather River

## East Branch

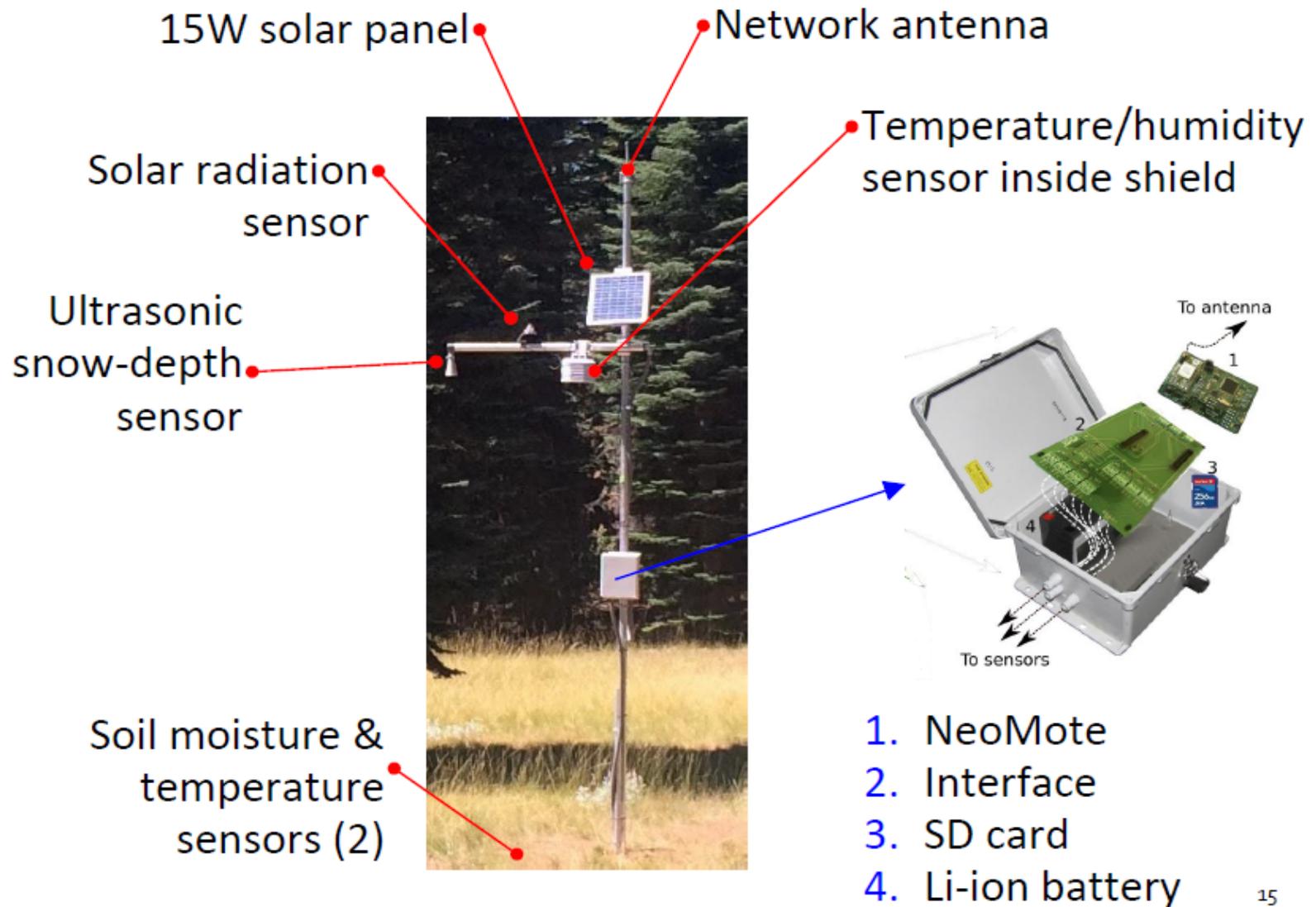


Support **PG&E's**  
**Hydropower Planning and**  
**Operations**

Key challenges & priorities:

1. Unregulated flow from headwaters
2. Heterogeneity in basin geology
3. Snow distribution, esp at high elevations

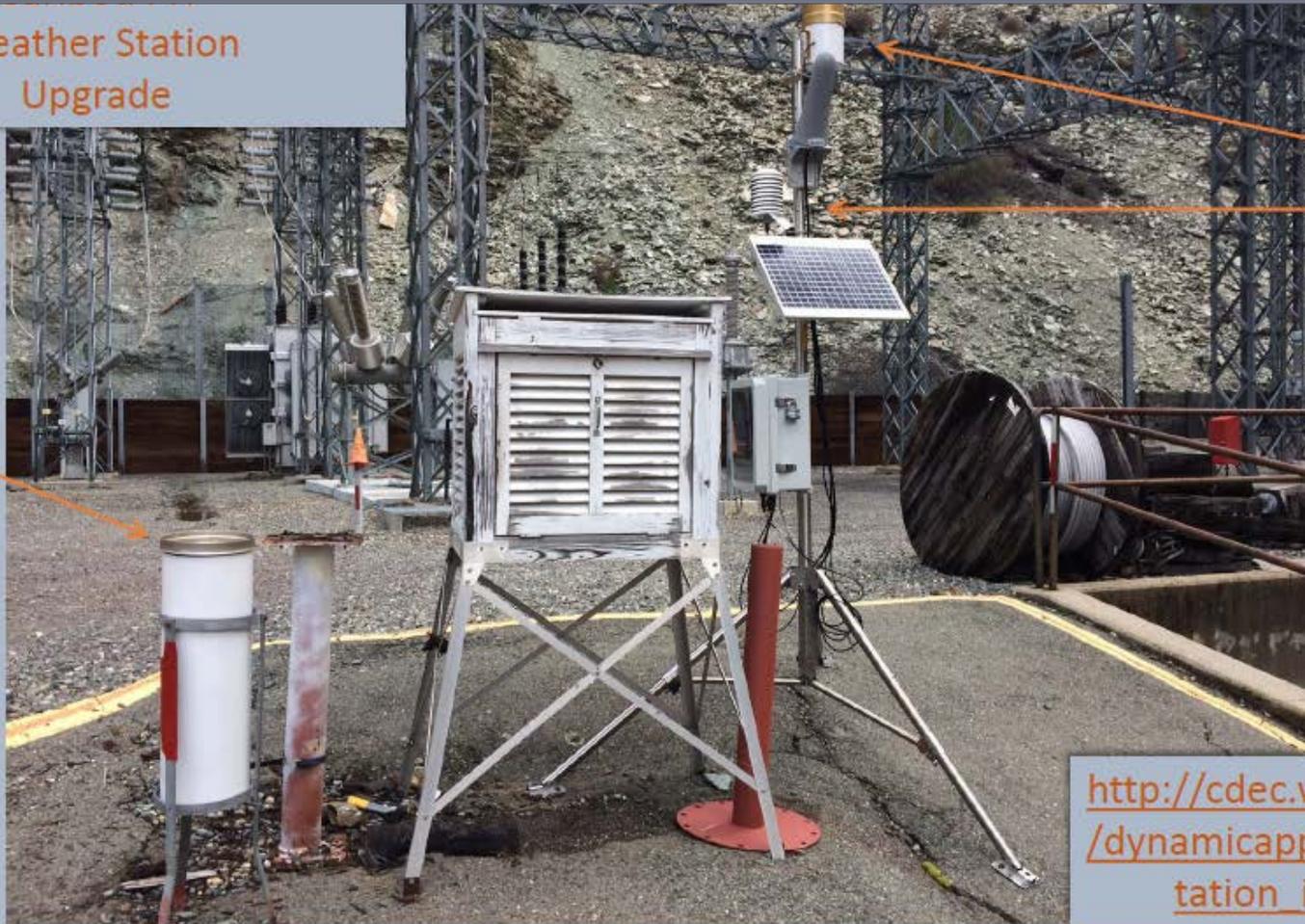
# Step 1: Sensor node



# Upgrading Caribou PH Weather Station Upper No Fork Feather

Weather Station  
Upgrade

Old manual  
read can



New  
telemetered  
tipping  
bucket,  
temp, & RH

[http://cdec.water.ca.gov/dynamicapp/staMeta?station\\_id=CBO](http://cdec.water.ca.gov/dynamicapp/staMeta?station_id=CBO)

# Upgrading Pit PH#5 Weather Station Lower Pit River

Pit #5 PH  
Weather Station  
Upgrade

New battery  
compartment  
& new wiring

Old battery &  
pump  
compartment

