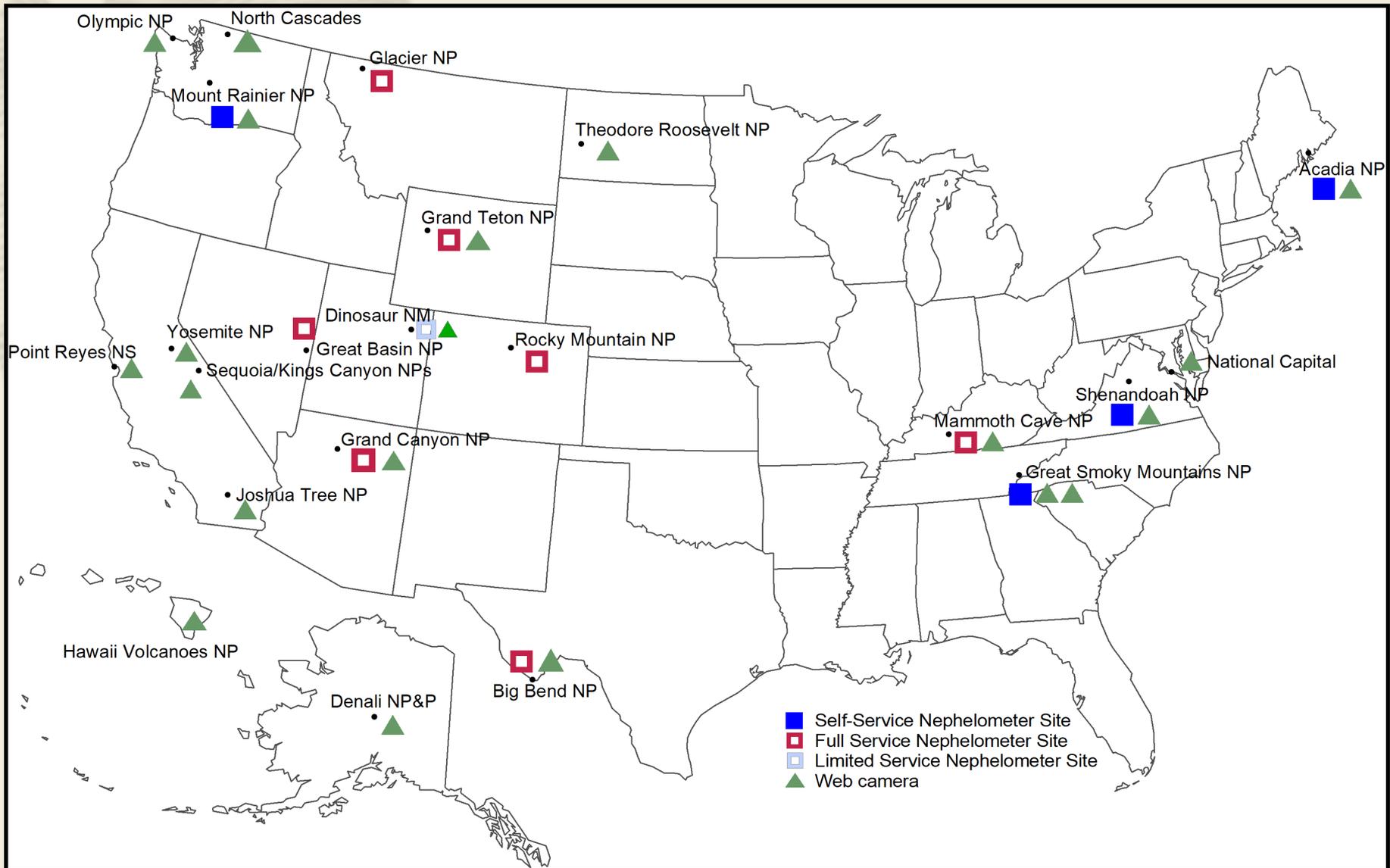


# National Park Service Visibility Monitoring Network

IMPROVE Steering Committee Meeting  
October 22, 2019 – Petaluma, California

Mark Tigges – Air Resource Specialists

# Nephelometer & Web Camera Locations

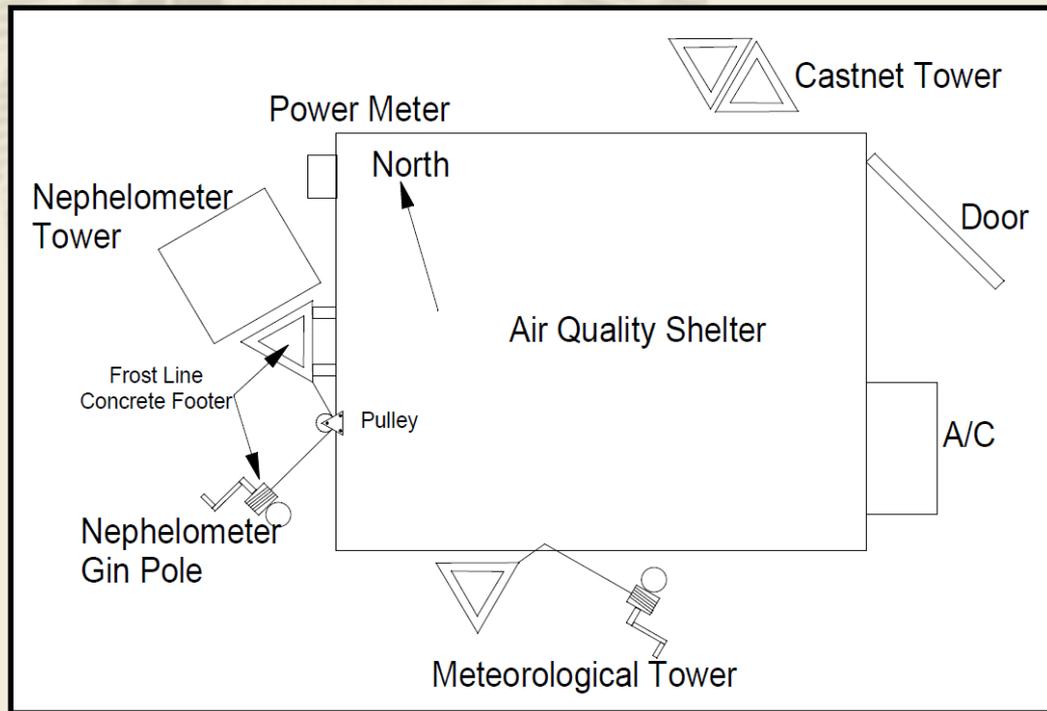


# Neph Data Collection Statistics (Oct '18 – Sep '19)

Site	Percent Data Collected
Acadia	99.8
Big Bend	98.6
Glacier	99.0
Great Basin	93.3
Great Smoky Mountains	94.8
Grand Teton	97.9
Grand Canyon (Hance)	93.6
Mammoth Cave	98.1
Mount Rainier	98.4
Rocky Mountain	100.0
Shenandoah	95.5
Bridger Transmissometer	99.5*
*data capture through 1/31/2019	

# Neph Network Enhancements

- All cell modems have been upgraded to 4G due to the planned discontinuation of 3G by major carriers in late 2019
- Glacier received a tipping tower in October 2018 at the request of the park



Schematic for Glacier tipping tower with gin pole



# Webcam Network



Sunrise at Olympic NP

# Webcam Statistics

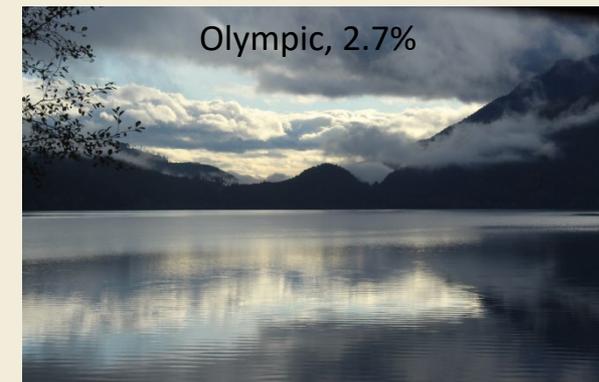
- NPS web site statistics are now collected by Google Analytics (so comparison to previous years is highly questionable)
- The domain <https://www.nps.gov/subjects/air/> received close to 3 million page views in the last 12 months
- Page views for the webcam network made up 91% of those hits
- The Big Bend camera system is being reinstalled at a new location with a new view this week

# New Big Bend Camera Site

- Top of hill near boathouse
- Solar powered, energy efficient controller similar to Dinosaur system



# Top 9 National Park Service Webcams



Questions?



Moonrise at Olympic NP