

Cooperative Observer Program Updates

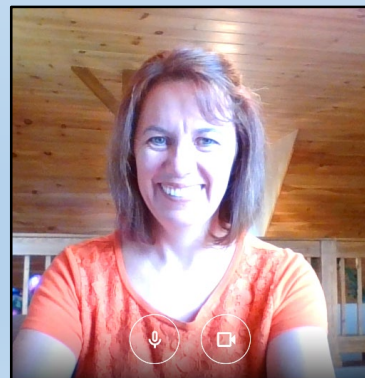
Amy Fritz

National Weather Service

May 2023



2019



2020



2021



2022



COOP Overview



Equipment used to measure temperature

- 1) Liquid-in-Glass (LIG) thermometers housed in a Cotton Region Shelter (CRS)
- 2) Max/Min Thermometer System (MMTS)

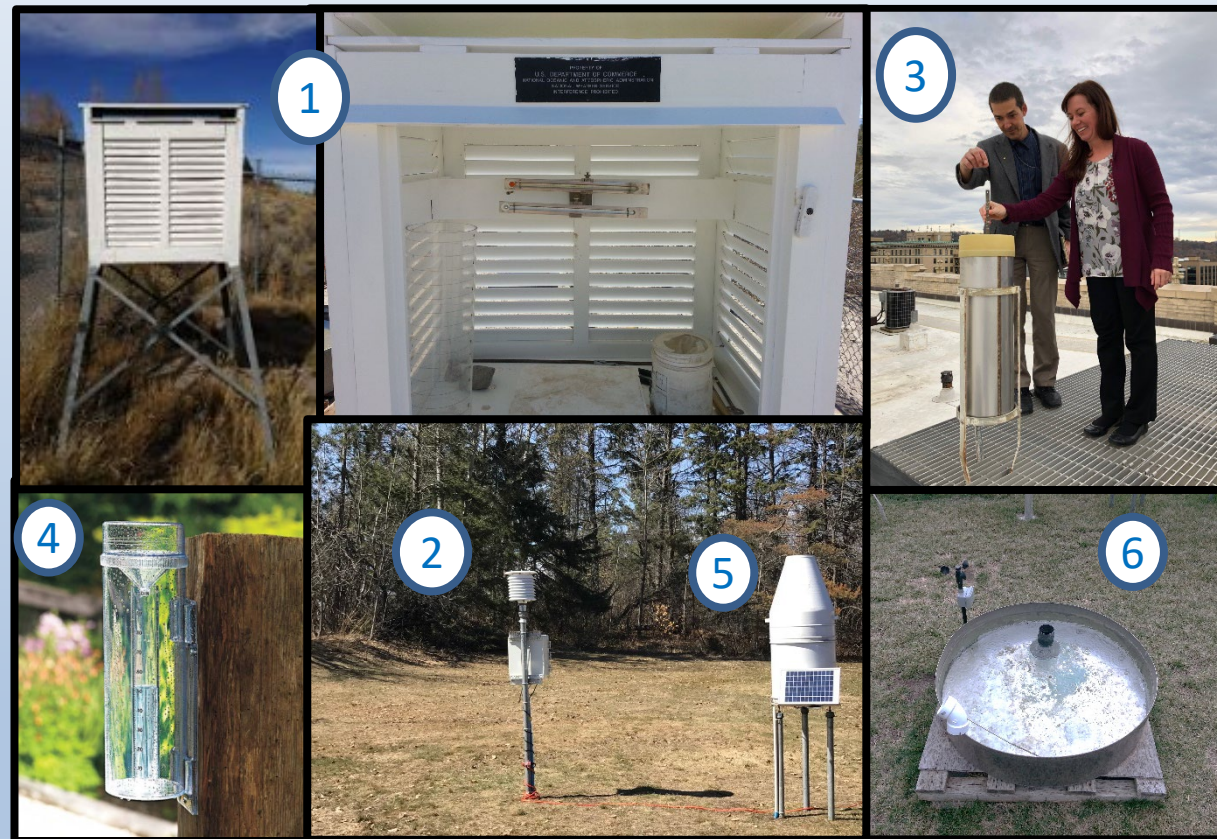


Equipment used to measure precipitation

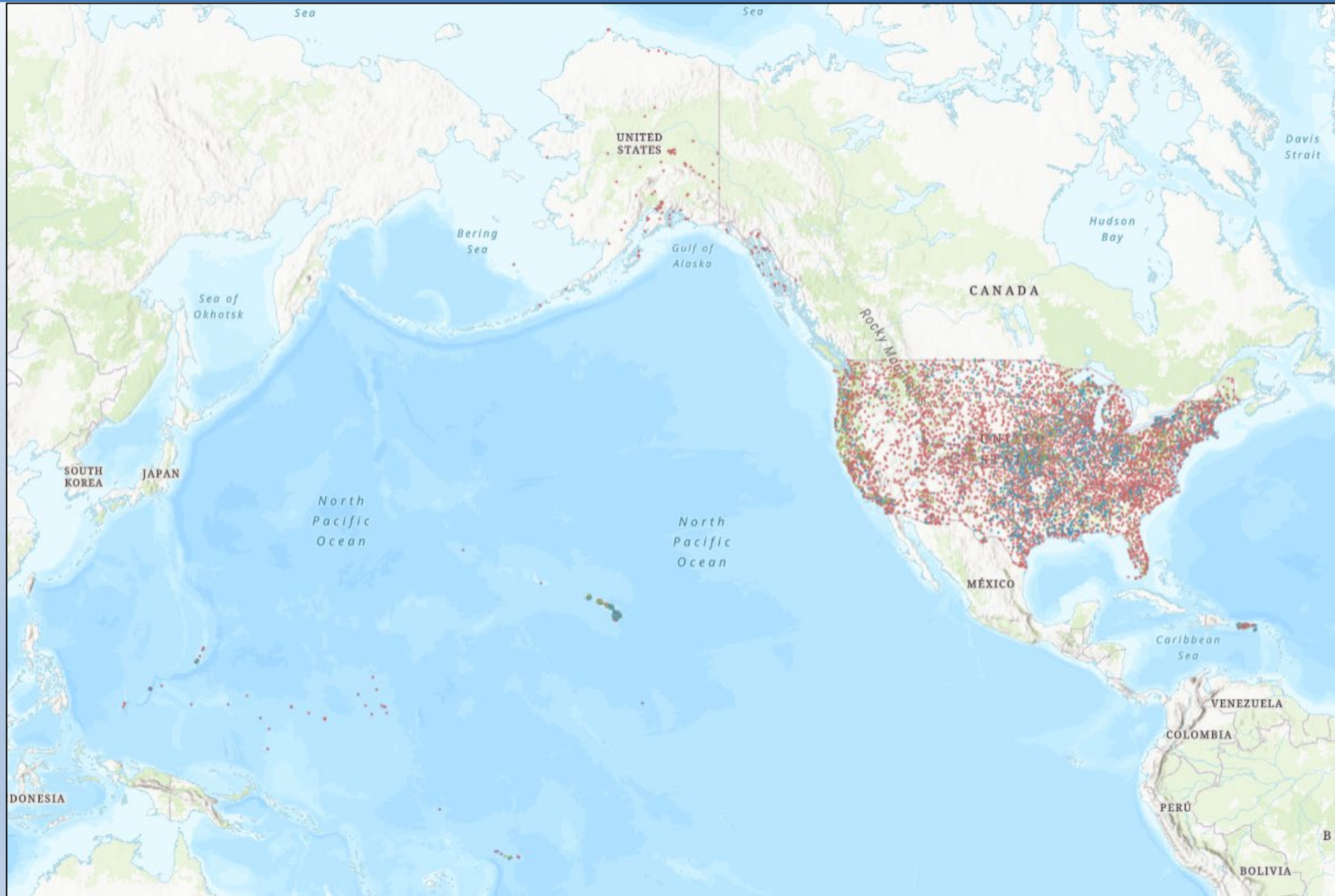
- 3) Standard 8" Rain Gauge (SRG)
- 4) Plastic 4" Rain Gauge
- 5) Fisher-Porter Rain Gauge



Other equipment used to measure snowfall, snow depth, evaporation (6), and other hydrological elements



COOP Overview



Legend

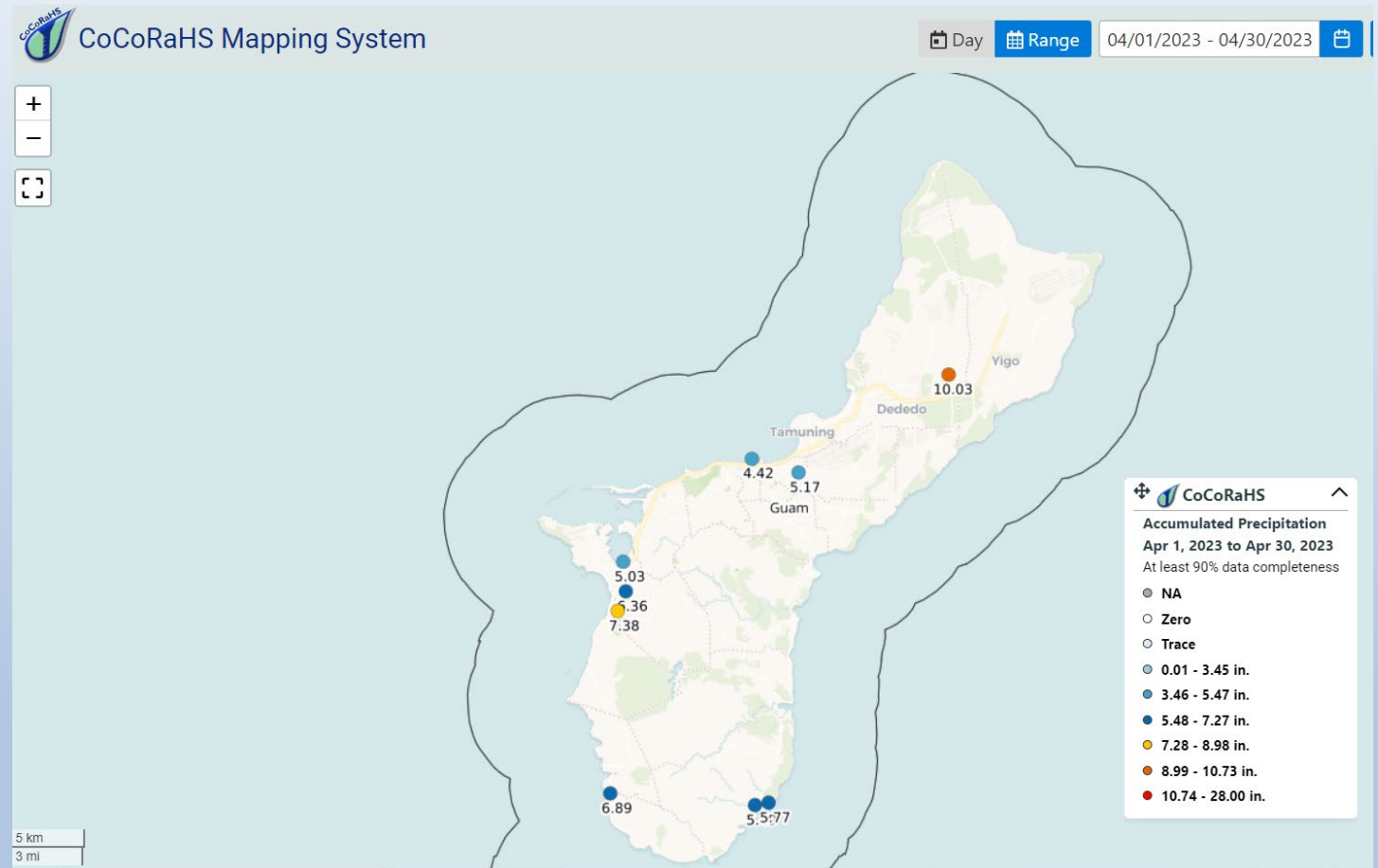
COOP sites 2023

- A_Network
- PCN
- SUP
- TMP

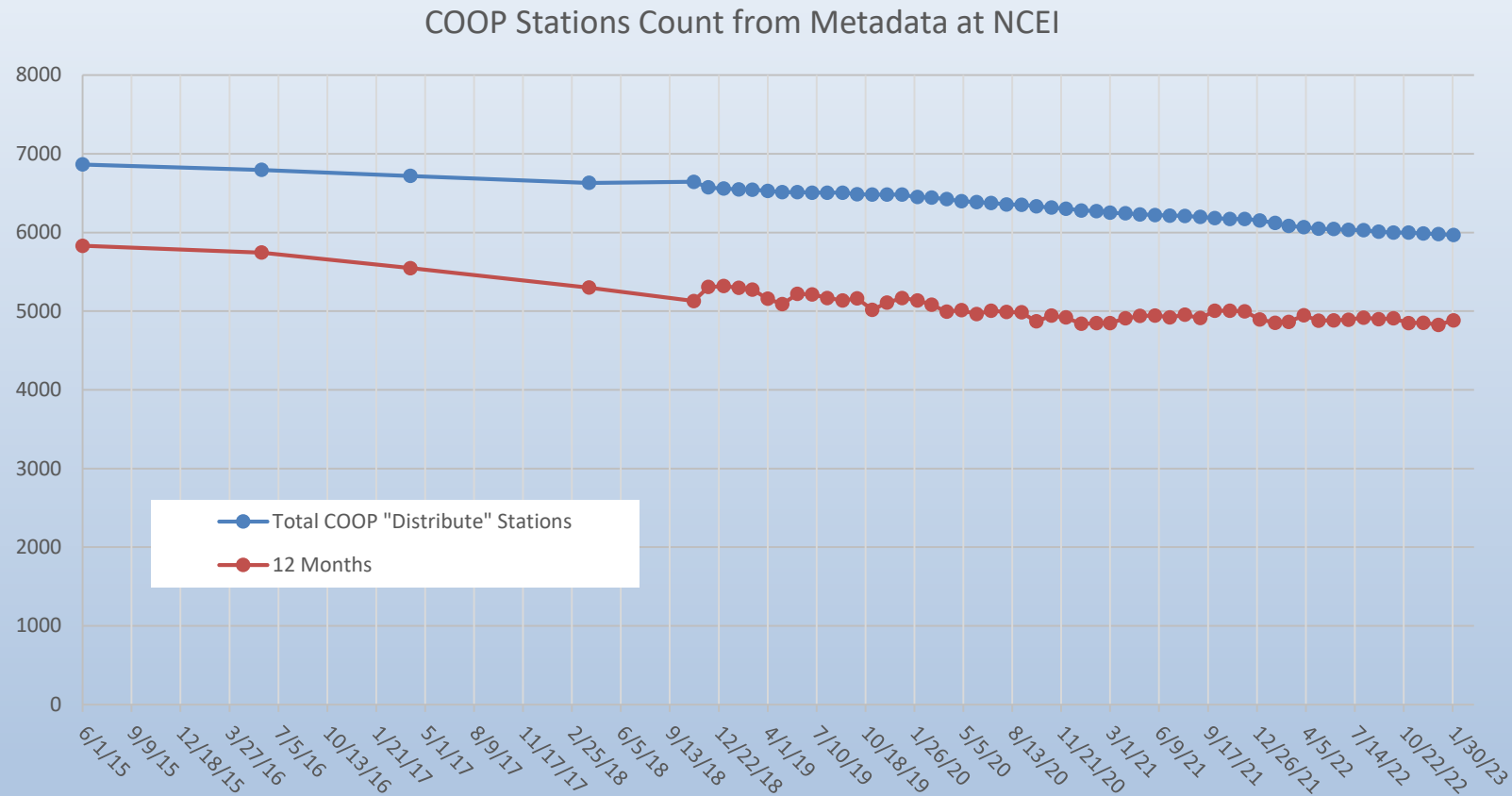
NWS COOP Program Updates

Recent Activities: CoCoRaHS in Guam

- Current Activities – 9 sites reported in April!



NWS COOP Program Updates



Graph of daily reported observations (**blue**) and stations turning in all "12 months" (**red**) of observations (2014-2023), does not include hourly precipitation data from Fischer Porter Rain gauges (total ~1800 sites receiving regular monthly reports from ~1100)
Data courtesy of NCEI.

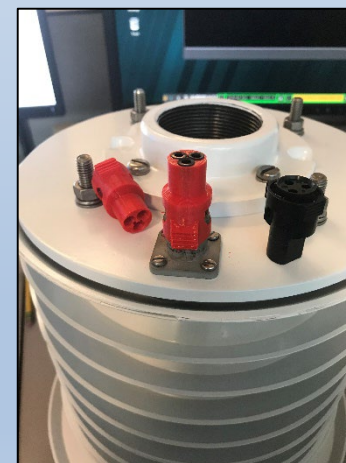


NWS COOP Program Updates



Recent Activities: Challenges with restock equipment and supplies

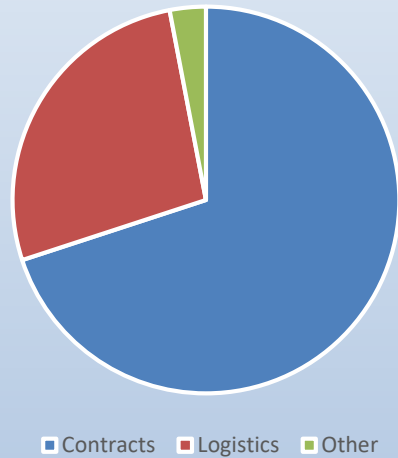
- MMTS
 - Cable
 - Nimbus Displays
 - Lightning Protection (cable grip kits)
 - Connector Plugs
- Parts for the Standard 8" Rain gauge
 - Inner tube
 - Precipitation sticks
- Snow sticks



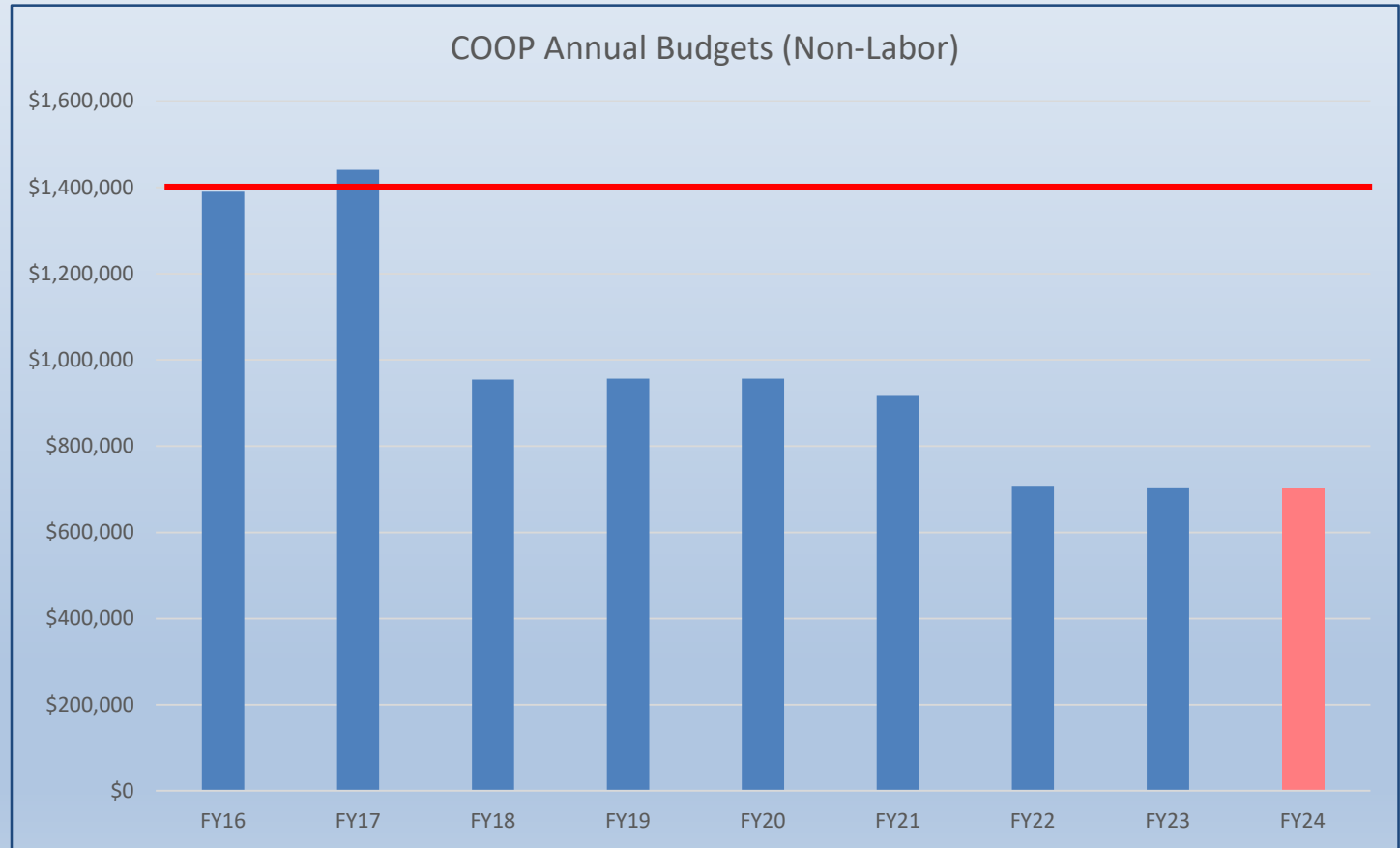
NWS COOP Program Updates

History of COOP HQ O&M Budget

FY23 Budget Breakdown

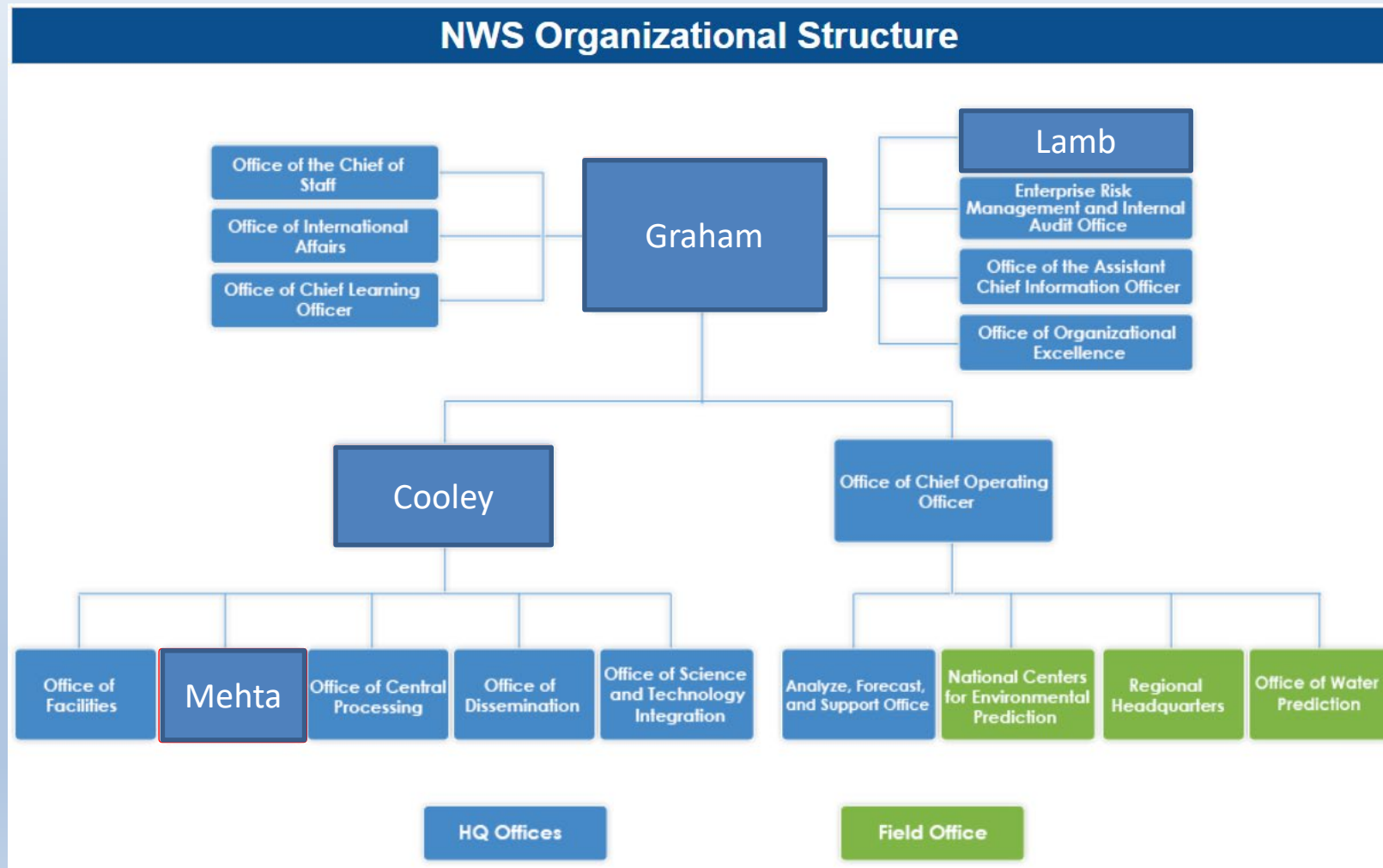


COOP Annual Budgets (Non-Labor)



NWS COOP Program Updates

Recent Activities: National COOP Plan...



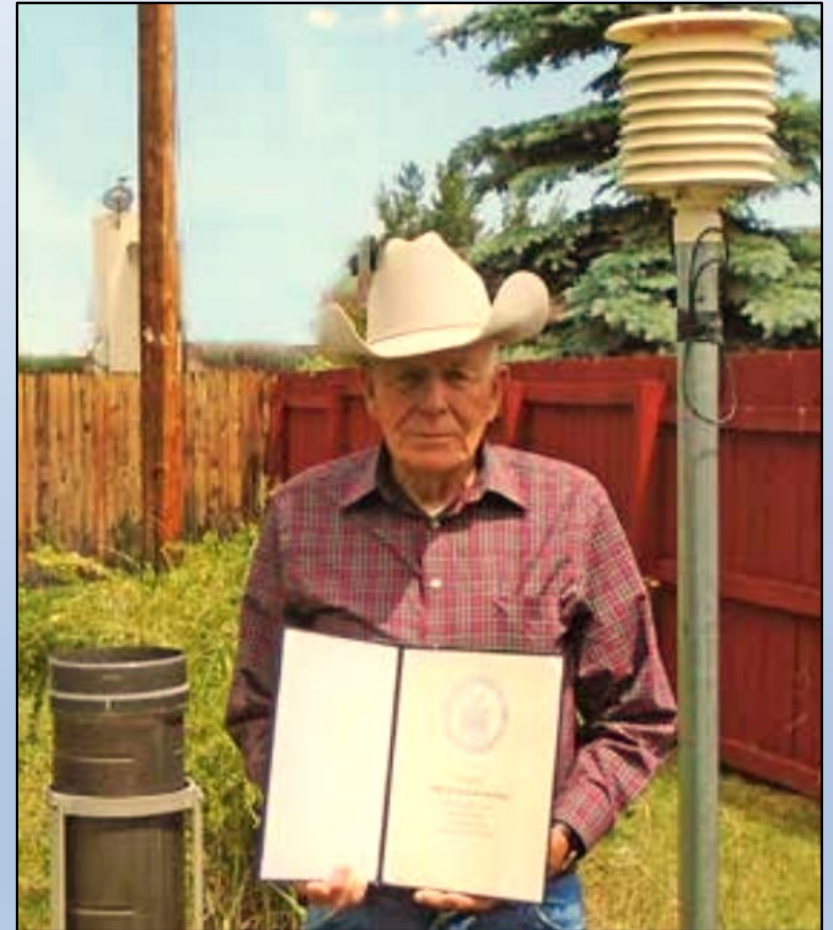
NWS COOP Program Updates

Recent Activities: National COOP Plan

- Focus priorities
 - New instrument resolution
 - New software system
 - Workforce
 - Volunteer
- Draft Complete Summer 2020
- Briefed Office of Observations July 14, 2020
- Briefed Office of Observations August 30, 2021
- Briefed GAIN Office of Observations June 6, 2022
- Follow up conversation Fall, 2022
- Requested routing for official approval December 2022

SUAD Division Chief Hired

New plan to be drafted by Spring 2024



Volunteer at Yampa, CO receiving service award

NWS COOP Program Updates

Recent Activities: National COOP Plan

- Current Activities
 - Baseline program – WxCoder Accounts
 - **Market Research**
 - Workforce – OPLs are being hired
 - Seeking funding opportunities



Photos are not a vendor endorsement



Questions?