



Cooperative Observer Program Updates

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National Weather Service
May/June 2022



2019



2020



2021

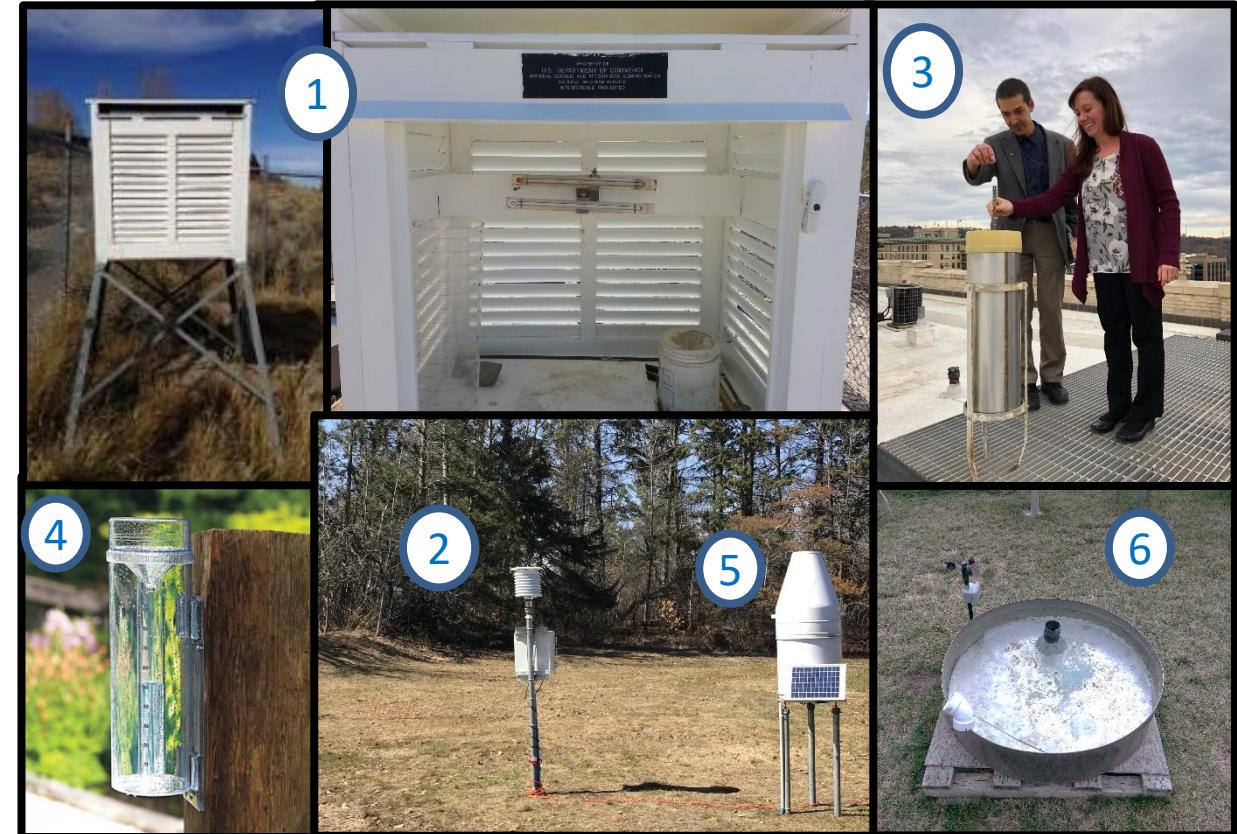


COOP Overview



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

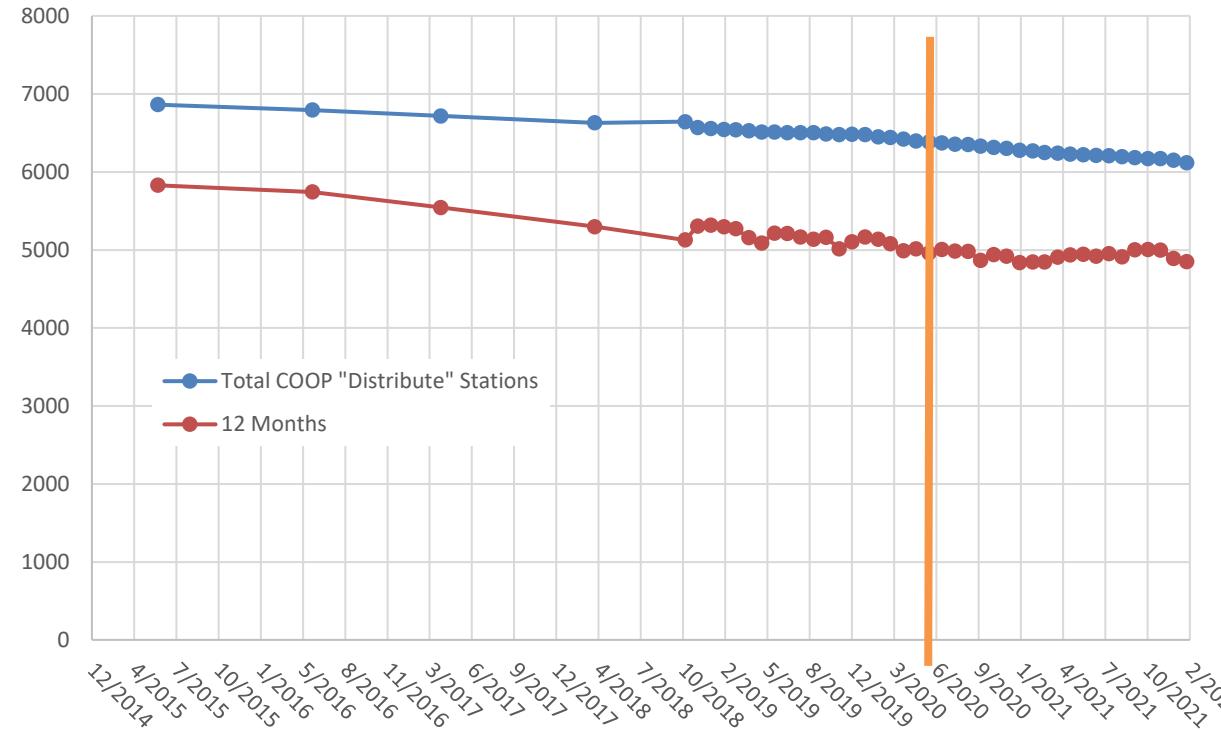




NWS COOP Program Updates



COOP Stations Count from Metadata at NCEI



Graph of daily reported observations (blue) and stations turning in all "12 months" (red) of observations (2014-2022), does not include hourly precipitation data from Fischer Porter Rain gauges (total ~1850 sites receiving regular monthly reports from ~1100)
Data courtesy of NCEI.



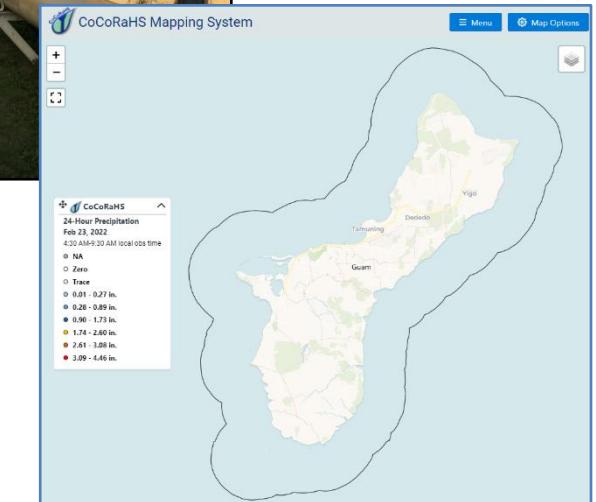


NWS COOP Program Updates



Unofficial COOP (UCOOP) sites: Transition Complete!

- Identified 682 sites
- Recommended sites either be:
 - Made into Official COOP sites = 111
 - Designate under another program = 373
 - Disposed (already inactive or closed) = 75
- Other NWS program designation for UCOOPs:
 - Hydrology/Drought Monitor = 240
 - SnowPaid = 48
 - Fire Weather = 8.
- **CoCoRaHS or Weather Spotter = 77 (including Guam)**
- **Project completed January, 2022**



Agana Plant Observer, Guam





NWS COOP Program Updates



Recent Activities: Restock equipment and supplies

- 4" plastic rain gauge (CoCoRaHS) - Qty: 1,000
 - Metal rings mounting bracket
- Parts for the Standard 8" Rain gauge
 - Inner tube
 - Collection funnel
- Snow sticks, snow stakes, and snow boards
- Lightning Protection (smaller grommets)





NWS COOP Program Updates

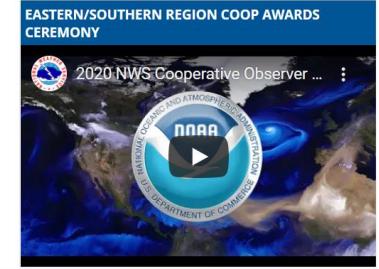


Recent Activities: COOP Embracing the Virtual World and Travel Resumes

- 2nd Annual Virtual Award Ceremonies Nov 1-3, 2021
- Virtual Training – ~ 10 Webinars, more planned for this summer
- Returned to in-person training, 2 courses thus far in 2022
- Travel for maintenance slowly picking up



COOP Training Webinar



COOP Virtual Award Ceremony



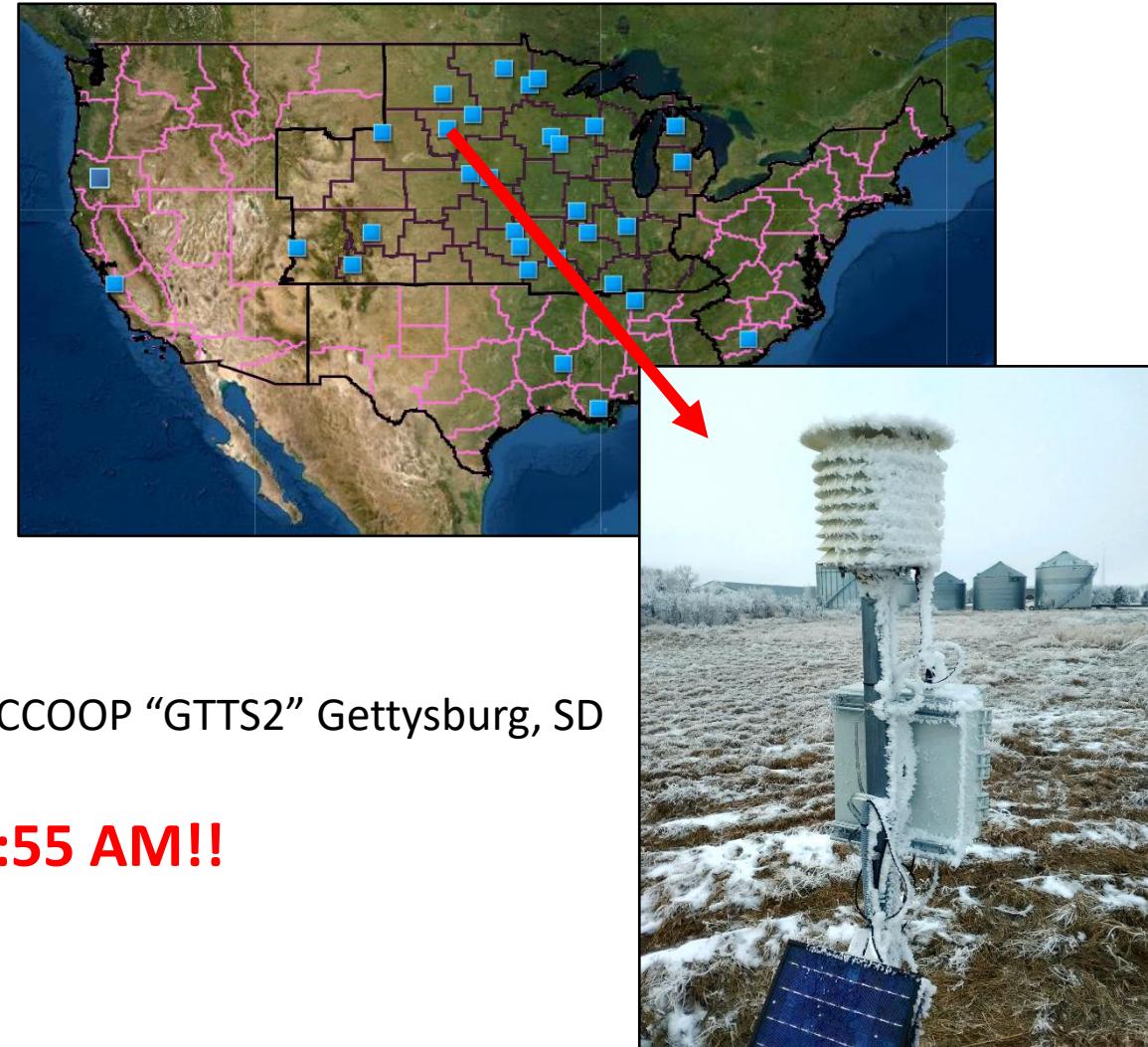


NWS COOP Program Updates



Recent Activities: Cellular COOP

- Prototype
- Stopgap measure
- Preserving USHCN
- Expanded to ~50 sites



CCOOP "GTTS2" Gettysburg, SD

Full Cellular COOP Presentation at 10:55 AM!!



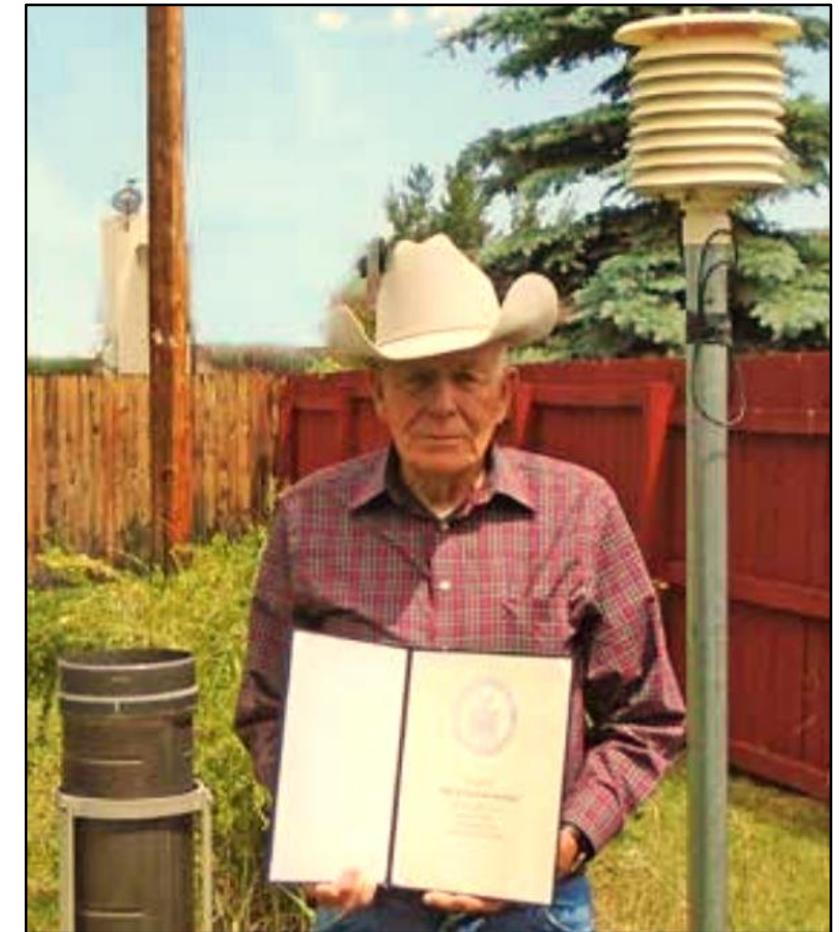


NWS COOP Program Updates



Recent Activities: National COOP Plan

- Four priorities
 - New instrument solution
 - New software system
 - Workforce
 - Volunteers
- Drafted Summer 2020
- Reviewed by Office of Observations and Regional Directors
- Second draft submitted for second review prior to official routing March 18th, 2021
- Briefed Office of Observations July 14, 2020
- Briefed Office of Observations August 30, 2021
- Briefing AGAIN Office of Observations June 6, 2022



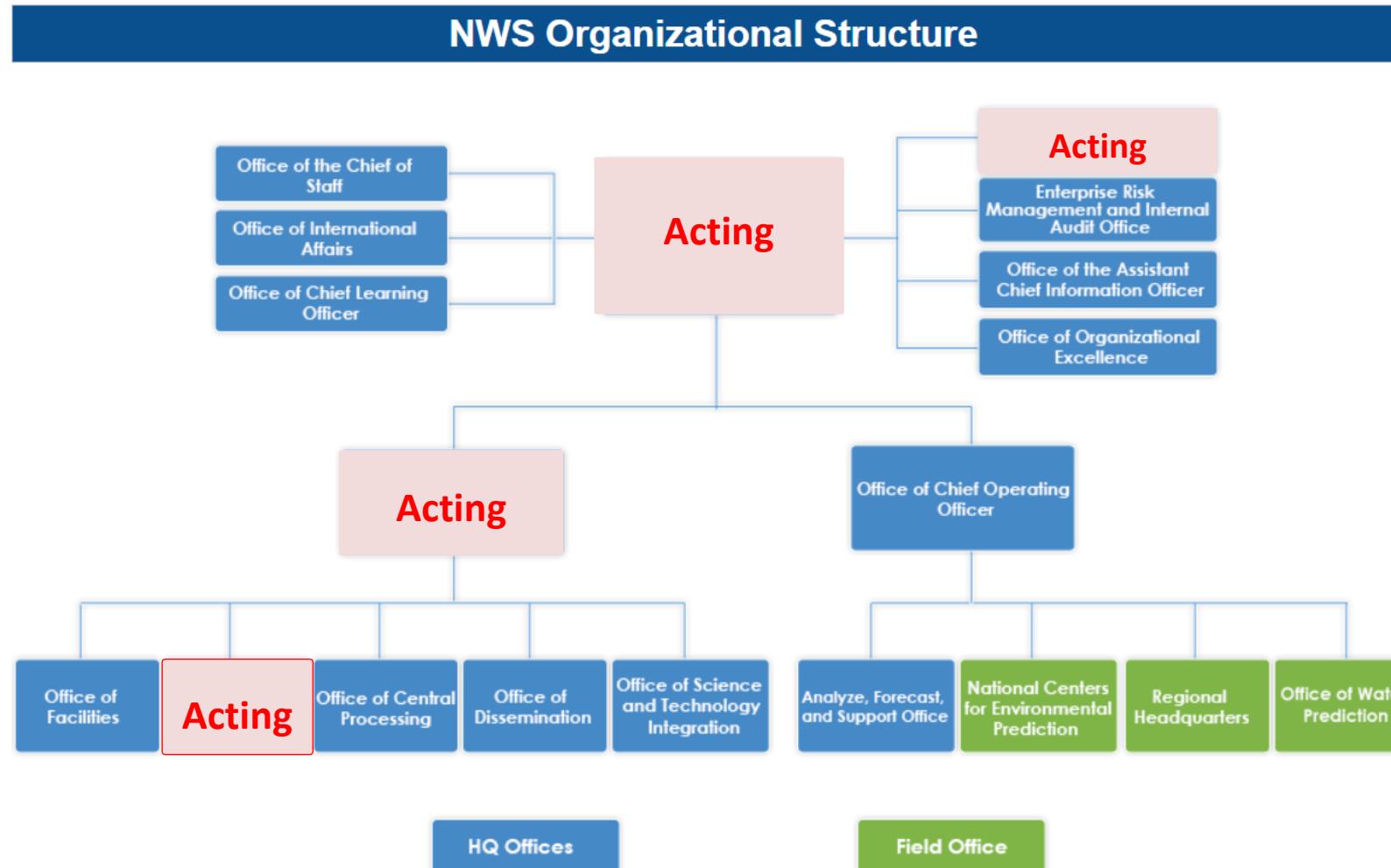
Volunteer at Yampa, CO receiving service award





NWS COOP Program Updates

Recent Activities: National COOP Plan...





NWS COOP Program Updates



Recent Activities: National COOP Plan

- Current Activities
 - Baseline program – UCOOP sites
 - Market Research
 - Workforce – OPLs are being hired
 - Seeking funding opportunities



Photos are not a vendor endorsement





NWS COOP Program Updates



Questions?



April 18th, 2022
Hancock, MD



Lost!



Name of toy: _____

Fischer - Porter

Type of toy: _____

Rain Gauge

Last seen: _____

**Dec 10, 2021
at about 10,000 ft**

If found, please contact:

NWS Paducah

Description:

White, pear shaped, metallic tin can.

**Speaks intermittently, usually tells you
when it is raining. Sometimes lies and
tells you it's raining when it's not.**

Nickname: "Echo"

