



Cooperative Observer Program Updates

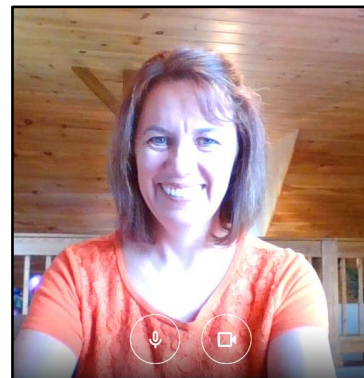
Amy Fritz

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)

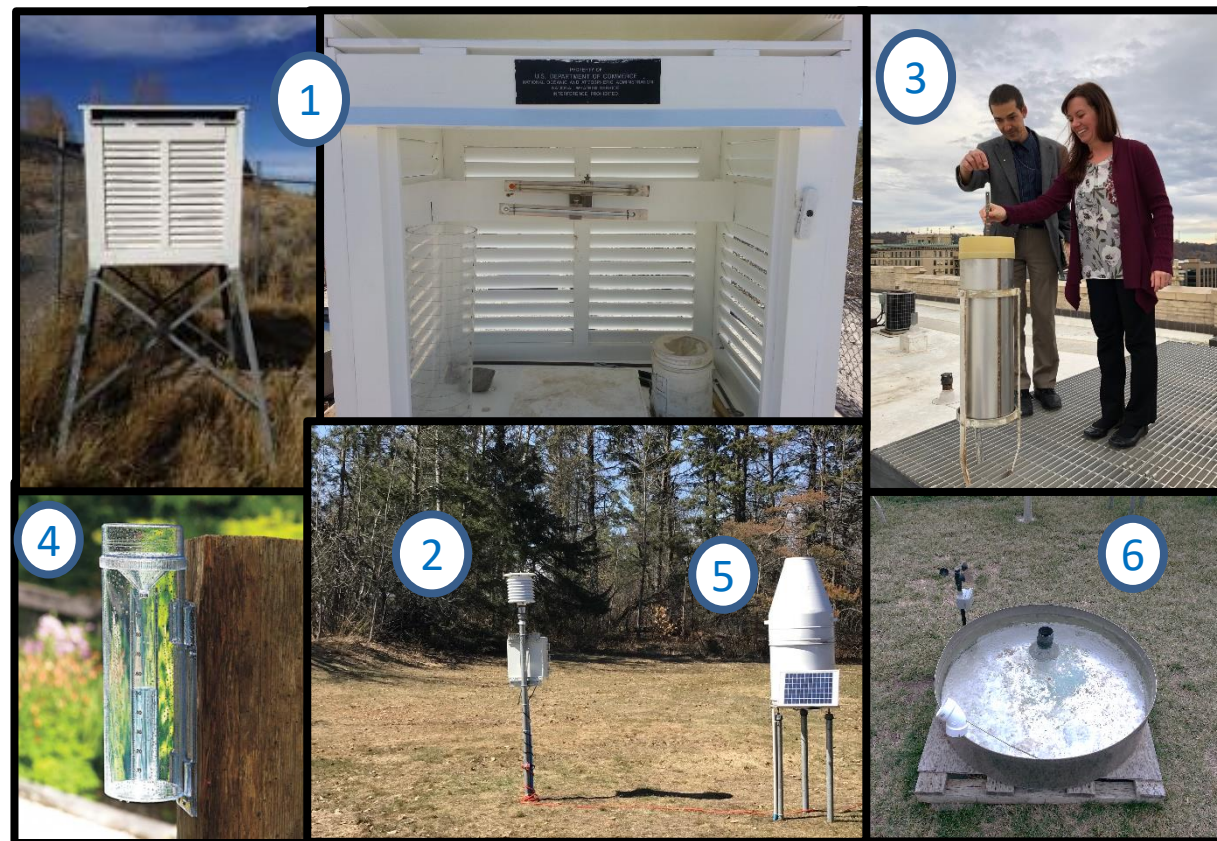


Equipment used to measure precipitation

- 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

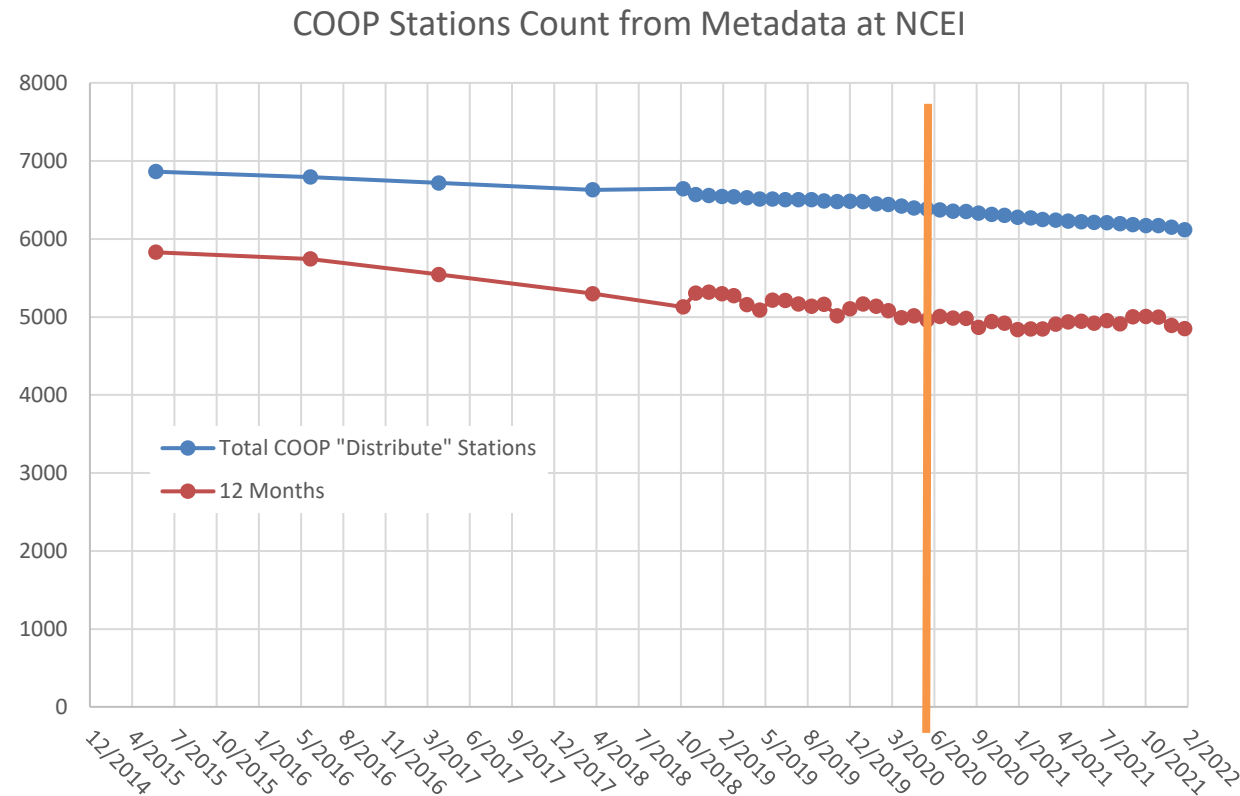




COOP Overview



NWS COOP Program Updates



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)

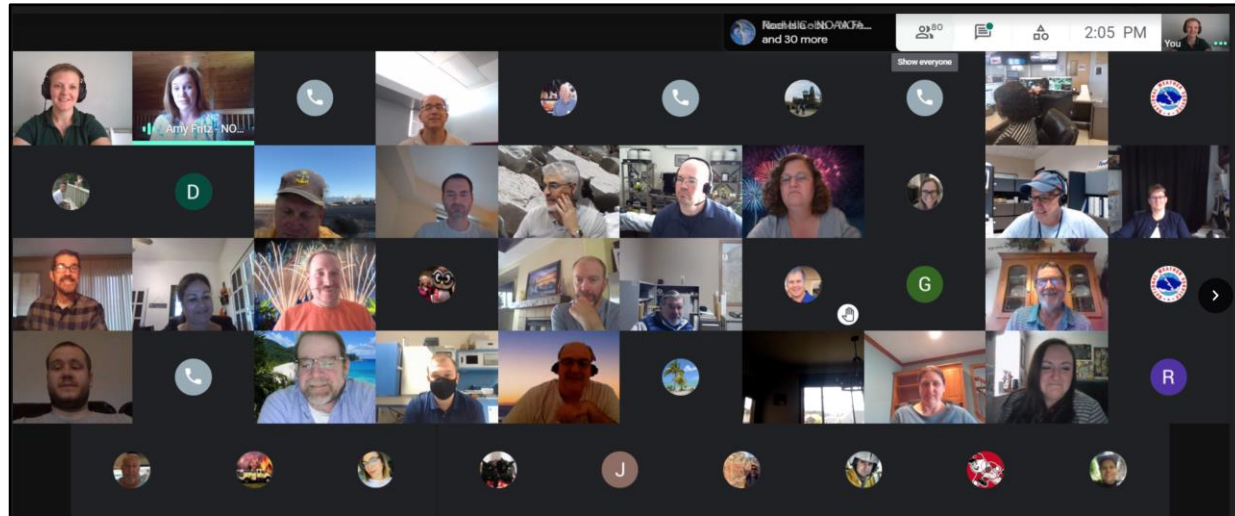


NWS COOP Program Updates

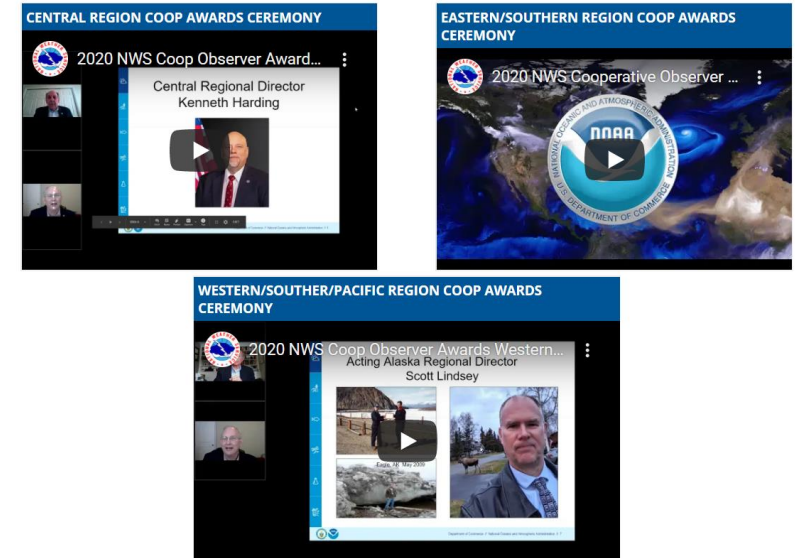
Recent Activities:

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

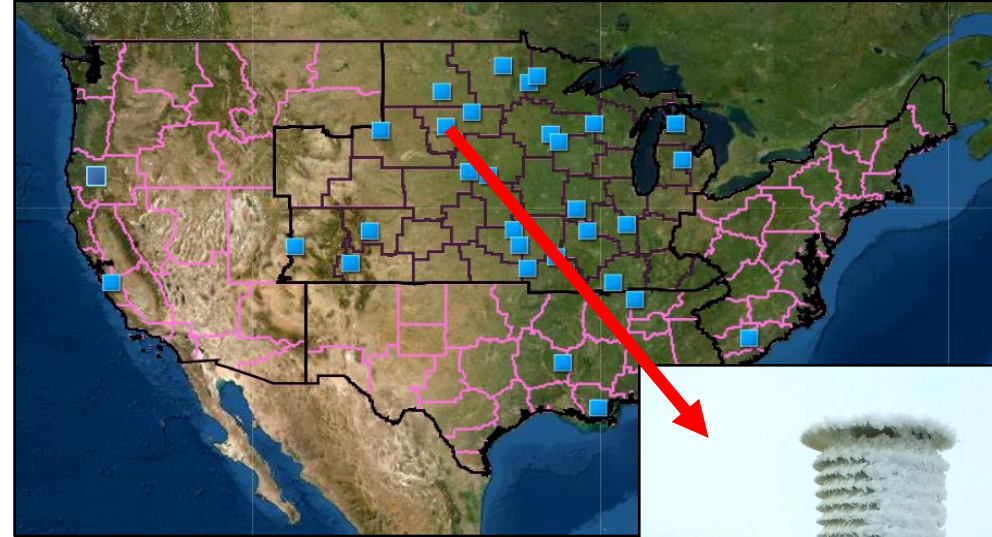


COOP Virtual Award Ceremony

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!!

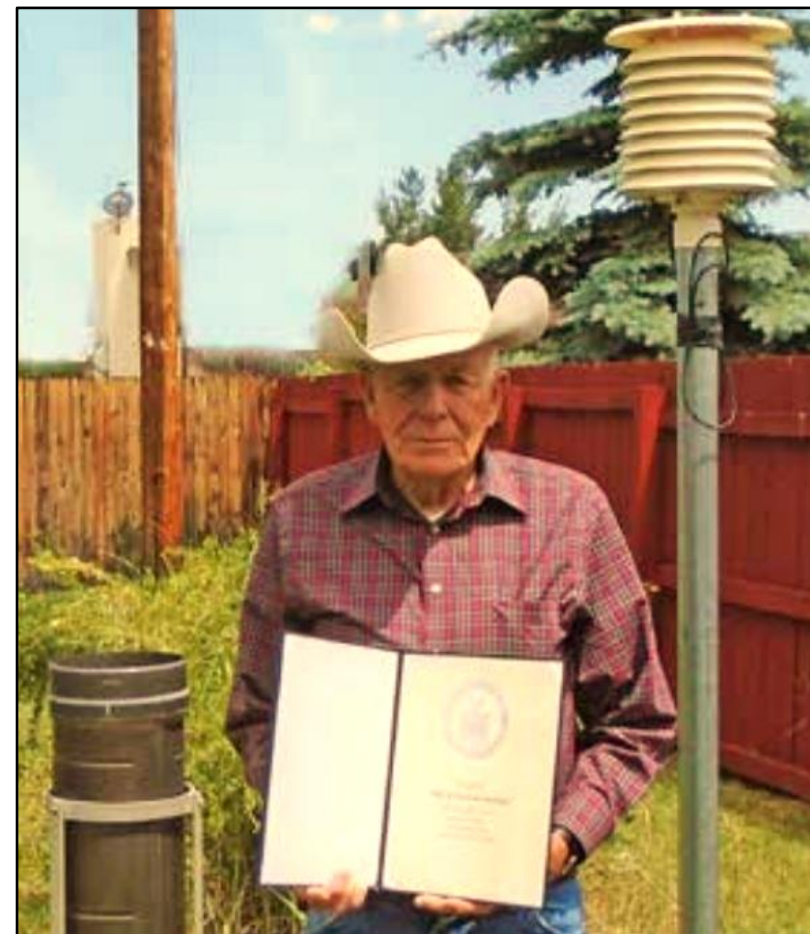


NWS COOP Program Updates



Recent Activities: National COOP Plan

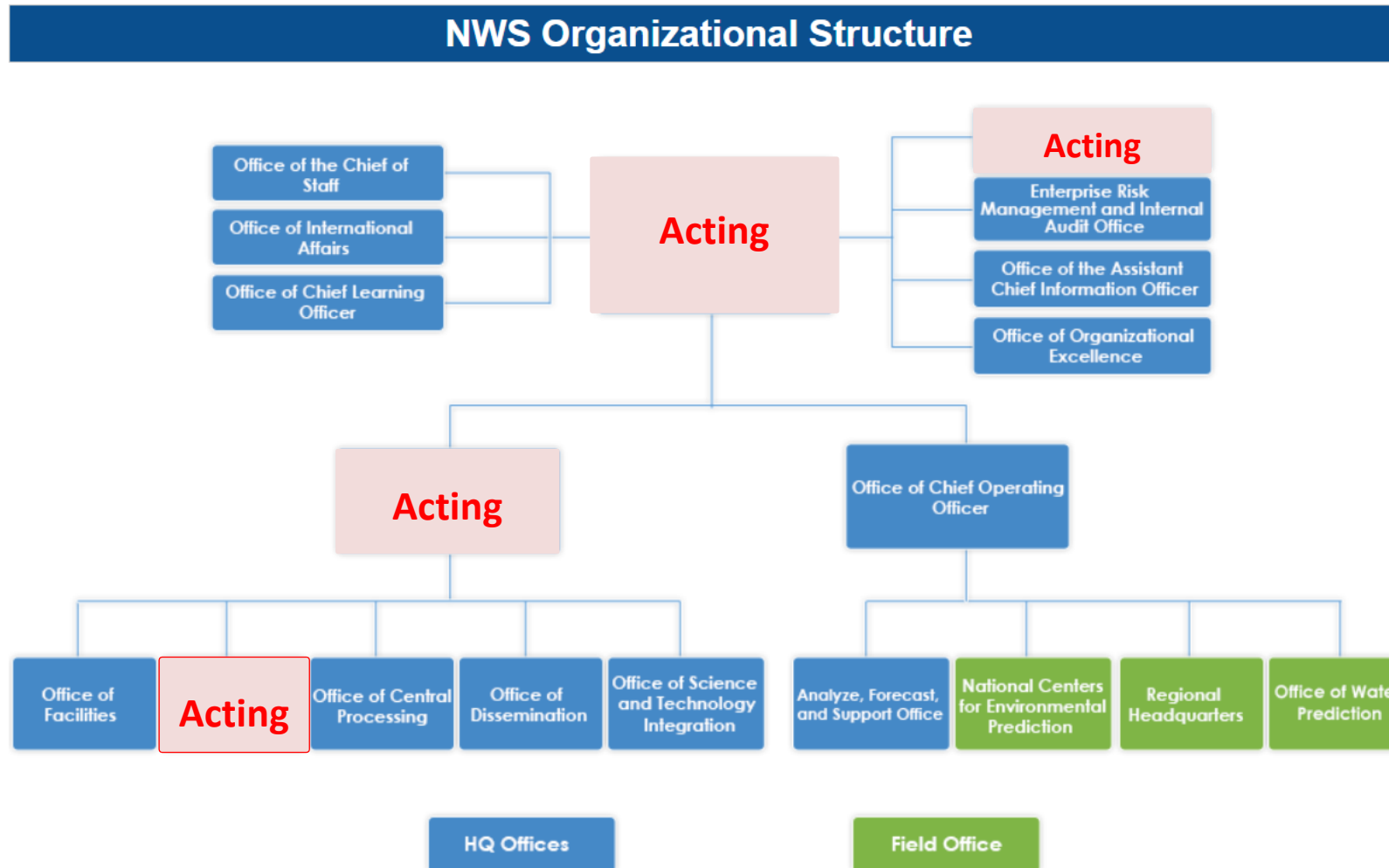
- Four priorities
 - New instrument solution
 - New software system
 - Workforce
 - Volunteers
- Drafted Summer 2020
- Reviewed by Office of Observations and Regional Directors
- Second draft submitted for second review prior to official routing March 18th, 2021
- Briefed Office of Observations July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

