



# ASOS 2.0 - An Update

## NWS Automated Surface Observations (ASOS) 2.0

- The Acquisition Control Unit (ACU), Data Collection Package(DCP), Single Cabinet ASOS (SCA) Upgrade Project
  - Will allow for ASOS sensor instrumentation and communications modernization initiatives
  - Integrated system built by Campbell Scientific Inc. (CSI)
  - Includes new hardware and software that allows for an upgrade to modern IP communications, sensor/system integration and expanding the availability and periodicity of ASOS data



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- Timeline:
  - CY2024: Complete upgrade of Ice Free Wind Sensor, Complete Temperature/Dew Point Sensor replacement, Begin transmitting ceilometer attenuated backscatter data sets for operational use
  - CY2026: Design, validate and deploy all ACU/DCP/SCA Replacements (aka ASOS 2.0), Replace all copper voice and data lines with Internet Protocol communications, Deploy new ceilometer, Deploy new precipitation weighing gauge, Deploy new barometer
  - CY2027: Deploy new visibility and present weather sensor combination unit, Achieve GCOS1 Surface Reference Network Instrumentation standards for wind and temperature
  - CY2028: Achieve GCOS Standards at NWS ASOS 2.0 sites for Solar Radiation, Deploy new freezing rain sensor
  - CY2029: Deploy new tipping bucket sensor



# COOP 2.0 - An Update

- **NWS Cooperative Observer Program (COOP)**
- Major update to the Station Information System (SIS)
  - Internal program used for documentation of COOP station and observer information
- Closer to home: If funding comes through, the Central Region of the NWS will update Cellular COOP(C-COOP) technology
- **NWS COOP Going Forward...**