# REMOTE AUTOMATIC WEATHER STATIONS

O

BLM/NIFC/RSFWSU



#### PERMANENT WEATHER STATION

- 2136 Permanent Weather Stations in the Network
- Stations are located in the 50 United States, Puerto Rico, and Guam
- All Stations are 300 baud Hourly Transmissions
- Fire Weather and Resource Applications
- Stations are Manufactured by Campbell, FTS, Sutron, and Vaisala

### PERMANENT STATIONS

Fire Weather Stations Must Meet National Fire Danger Rating Standards (NFDRS)

Minimum Sensor Complement Relative Humidity Air Temperature Wind Speed Wind Direction Solar Radiation Rain Gauge

Alternate Sensor Complement Fuel Moisture Fuel Temperature Soil Moisture Soil Temperature Barometric Pressure



#### PORTABLE STATIONS

- 563 Permanent Weather Stations in the Network
- Stations are located in the 50 United States, Puerto Rico, and Guam
- All Stations are 300 baud Hourly Transmissions
- Fire Weather and Resource Applications
- Stations are Manufactured by Campbell, FTS, and Vaisala

#### PORTABLE STATIONS

- Portable Stations Have NFDRS Recommendations
- Sensor Complement
- Relative Humidity
- Air Temperature
- Wind Speed
- Wind Direction
- Solar Radiation
- Rain Gauge
- Fuel Moisture
- Fuel Temperature



#### INCIDENT REMOTE AUTOMATIC WEATHER STATIONS (IRAWS)

- 75 IRAWS in Inventory
- IRAWS are used on All Risk Incidents
- Normally used on Wildfires
- Have been deployed to the Exon Valdez Oil Spill, 9-11 World Trade Center Disaster, Columbia Space Shuttle Disaster, Hurricanes Katrina and Rita
- 84 Deployments as of 9 September 2017

## IRAWS

- Radio Voice Transmitter and GOES
- Radio Voice sends Weather Data and Alerts
- GOES Transmissions are 5 Second Windows every 15 Minuets

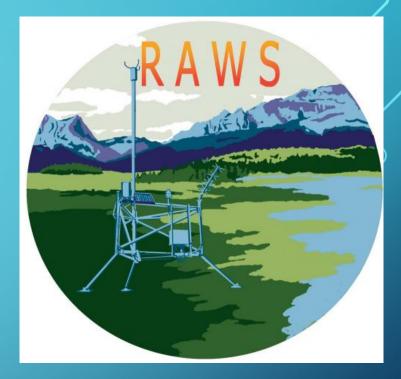


#### SMOKE MONITORS

- 85 Stations in the Network
- Stations are Deployed on Wildfire Incidents
- All Stations are 300 baud
- Fire Weather Applications
- Stations are Manufactured by FTS, and MetOne
- Data is sent to the Western Regional Climate Center (WRCC) for Distribution

#### WEATHER DATA

- Have a DRGS and 2 LRIT Receivers
- Collect Data from Wallops and EDDN
- Have 3 LRGS, One Primary, One Backup, and One Test



- Data is Converted in the Wildland Fire Management Information (WFMI) Software.
- Converted Data is sent to WIMMS, GEOMAC, WRCC, MESOWEST, and the Alaska Fire Service

## QUESTIONS?

 $\bigcirc$ 

0

