Evaluating air chemistry, weather and climate change through advanced meteorological assessments

Mission & Capabilities

The National Oceanic and Atmospheric Administration (NOAA)/Air Resources Laboratory (ARL)/Atmospheric Turbulence and Diffusion Division (ATDD) performs vital research and development in air chemistry, weather and climate change.

ATDD’s primary research focus areas include:

1. U.S. Climate research
   - Long-term measurements and monitoring
   - Climate observations and analyses

2. Boundary layer characterization
   - Small uncrewed aircraft systems
   - Measurement of the exchange of pollutants between the air and land

3. Atmospheric Chemistry and Deposition
Impact

As a part of NOAA's Air Resources Laboratory, scientists and engineers provide expertise on the development and deployment of instrumentation and data analysis for short intensive campaigns to multi-decade, nationwide climate monitoring stations and systems. These innovative systems, such as the remotely piloted aircraft (drones) and the Climate Reference Network, offer insight into the implications of climate change and air characterizations on a local and nationwide scale, respectively.

ORAU has managed and provided scientific and technical staff for the ATDD program for more than 40 years. Through specialized teams of experts, unique laboratory capabilities and access to a consortium of more than 100 Ph.D.-granting intuitions, ORAU works with federal, state, local and commercial customers to advance national priorities and serve the public interest.

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