



## Evaluating air quality, weather and climate change through advanced meteorological assessments

**ORAU**

**NOAA**  
**Atmospheric**  
**Turbulence**  
**and Diffusion**  
**Division**

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### **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 quality, weather and climate change.

ATDD primary research focus areas include:

1. Climate research
  - Long-term measurements and monitoring
  - Climate observations and analyses
2. Boundary layer characterization
  - Small unmanned aircraft systems
  - Measurement and modeling including winds, temperature, solar radiation, precipitation and carbon
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 Best Airborne Turbulence (BAT) Probe and the Climate Reference Network, offer insight into the implications of climate change and air quality on a nationwide scale.

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.

### Contact Us:

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