



## OAR Laboratories and Programs

NOAA's Office of Oceanic and Atmospheric Research (OAR) conducts research at our seven laboratories around the country, and with our partners at Cooperative and Joint Institutes and through sponsored research funded by the Climate Program Office, National Sea Grant College Program, and the Office of Ocean Exploration and Research.

### **Air Resources Laboratory (ARL)** **(301) 713-0295**

[www.arl.noaa.gov](http://www.arl.noaa.gov)

ARL, with offices in Silver Spring, MD; Oak Ridge, TN; Las Vegas, NV; and Idaho Falls, ID, develops, evaluates, and applies air quality models; provides policy-relevant and scientific information about the exchange of air pollutants with the land surface; improves prediction of atmospheric dispersion of hazardous materials; develops climate observing systems; and provides new insights into climate variability and trends.

### **Atlantic Oceanographic and Meteorological Laboratory (AOML)** **(305) 361-4450**

[www.aoml.noaa.gov](http://www.aoml.noaa.gov)

AOML in Miami, FL, conducts research in oceanography, meteorology, atmospheric and oceanic chemistry, and acoustics through its Divisions of Hurricane Research, Ocean Chemistry, and Physical Oceanography. AOML seeks to understand the physical characteristics and processes of the ocean and the atmosphere, both separately and as a coupled system.

### **Climate Program Office (CPO)** **(301) 734-1200**

[www.climate.noaa.gov](http://www.climate.noaa.gov)

CPO in Silver Spring, MD, manages the competitive programs by which NOAA funds sustained global climate observing systems and high-priority climate research to advance understanding of how atmospheric and oceanic processes affect climate. CPO also provides strategic guidance and oversight for the agency's climate science and services programs that build knowledge of climate variability and change, and how they affect our health, our economy, and our future.

### **Earth System Research Laboratory (ESRL)** **(303) 497-6643**

[www.esrl.noaa.gov](http://www.esrl.noaa.gov)

ESRL in Boulder, CO, conducts research to observe and understand the Earth system and to develop products to advance NOAA's environmental information and service on global-to-local scales.

### **Geophysical Fluid Dynamics Laboratory (GFDL)** **(609) 452-6503**

[www.gfdl.noaa.gov](http://www.gfdl.noaa.gov)

GFDL in Princeton, NJ, conducts leading-edge research to expand the scientific understanding of the physical processes that govern the behavior of the atmosphere and the oceans, to understand and predict the Earth's climate and weather, including climate modeling to better understand the impact of human activities.

**For more information  
contact us:**

**OAR Headquarters**  
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Silver Spring, MD  
20910  
301-713-2458  
[www.oar.noaa.gov](http://www.oar.noaa.gov)

*Images, top to bottom: NOAA Smart Balloon being launched by (left to right) John Porter and Jonathan Tytell of the University of Hawaii, and Randy Johnson of the NOAA Air Resources Laboratory Field Research Division; Students at the Urban Collaborative Accelerated Program (UCAP) school in Providence, RI talk by satellite phone with NOAA scientist and former UCAP employee Catalina Martinez, who is in a submersible more than 8,000 ft deep in the Gulf of Alaska.; NOAA diver Barbara Moore tests chemical instrumentation outside the Hydrolab Habitat off Freeport, Grand Bahama Island.*

**Great Lakes Environmental Research Laboratory (GLERL)**  
**(734) 741-2393**

[www.glerl.noaa.gov](http://www.glerl.noaa.gov)

GLERL in Ann Arbor, MI, conducts interdisciplinary environmental research in support of resource management and environmental services in coastal and estuarine waters, with a special emphasis on the Great Lakes. GLERL improves understanding and prediction of coastal and estuarine processes, and interdependencies with the atmosphere, and sediments.

**National Sea Grant Office**  
**(301) 734-1066**

[www.seagrant.noaa.gov](http://www.seagrant.noaa.gov)

The National Sea Grant Office in Silver Spring, MD, administers the National Sea Grant College Program, a nationwide network, of 30 university-based programs that work with coastal communities. Sea Grant conducts scientific research, education, training, and extension projects to foster science-based decisions about the use and conservation of our aquatic resources.

**National Severe Storms Laboratory (NSSL)**  
**(405) 325-6907**

[www.nssl.noaa.gov](http://www.nssl.noaa.gov)

NSSL in Norman, OK, improves severe weather warnings and forecasts to save lives and reduce property damage. NSSL's basic and applied research focuses on understanding severe weather processes, developing weather observation technology, and improving forecast tools, with emphasis on weather radar, hydrometeorology, and forecast and warning improvements.

**Office of Ocean Exploration and Research (OER)**  
**(301) 734-1010**

[www.oceanexplorer.noaa.gov](http://www.oceanexplorer.noaa.gov)

OER in Silver Spring, MD, discovers and investigates new ocean areas and phenomena, conducts the basic research required to capitalize on discoveries and seamlessly disseminates data and information-rich products to a multitude of users. OER also develops technological solutions to critical problems in undersea exploration.

**Pacific Marine Environmental Laboratory (PMEL)**  
**(206) 526-6239**

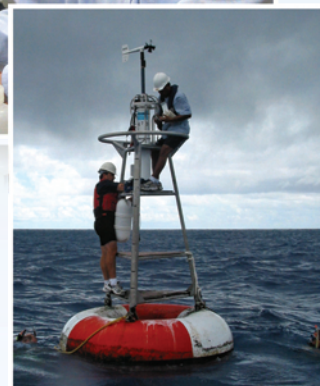
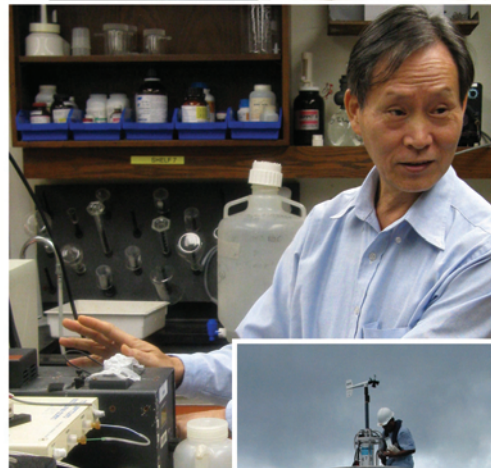
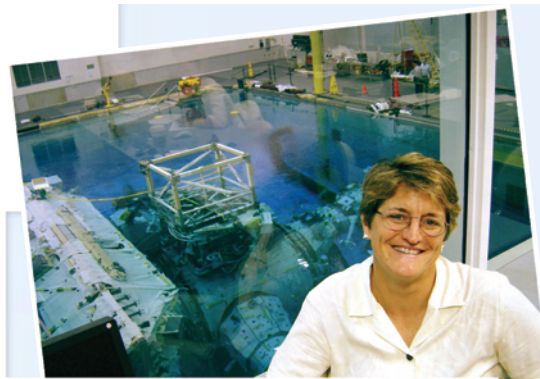
[www.pmel.noaa.gov](http://www.pmel.noaa.gov)

PMEL in Seattle, WA, conducts research to improve our understanding of the world's oceans, defines the processes driving the global climate system, and improves environmental forecasting capabilities, including tsunami detection and warnings, for public safety, marine commerce, and fisheries.

**Cooperative Research Institutes**  
**(301) 734-1090**

[www.nrc.noaa.gov/ci](http://www.nrc.noaa.gov/ci)

NOAA's 21 Cooperative Research Institutes in 17 states bring together the resources of a research-oriented university or institution to develop and maintain a center of excellence in research relevant to understanding the Earth's oceans, the Great Lakes, inland waters, Arctic regions, solar terrestrial environment, intermountain west and the atmosphere.



*Images, top to bottom: Karen Kohanowich, deputy director of the NOAA OER Program, at the Neutral Buoyancy Lab at the Johnson Space Center in Houston, Texas; Dr. Jia-Zhong Zhang, AOML, conducts nutrient analysis research; NOAA buoy technician Dane Jaynes (left) and scientific observer Alex Ysam (right) repair a TAO mooring while Ka'imimoana Commanding Officer (CO) Commander (CDR) Mark Pickett (left) and CO CDR Chris Beaverson (right) dive to repair subsurface instrumentation on the mooring.*