**National Oceanic and Atmospheric Administration**

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| **National Oceanic and Atmospheric Administration** | |
| Logo of the National Oceanic and Atmospheric Administration | |
| Flag of the National Oceanic and Atmospheric Administration | |
| **Agency overview** | |
| **Formed** | February 10, 1807; 208 years ago (1807-02-10) |
| **Preceding Agency** | United States Survey of the Coast |
| **Jurisdiction** | [United States federal government](http://en.wikipedia.org/wiki/Federal_government_of_the_United_States) |
| **Headquarters** | [Silver Spring](http://en.wikipedia.org/wiki/Silver_Spring,_Maryland), [Maryland](http://en.wikipedia.org/wiki/Maryland), U.S. |
| **Annual budget** | US$4.5 billion (2009) US$4.9 billion (est. 2010) US$5.6 billion (est. 2011) |
| **Agency executive** | [Kathryn D. Sullivan](http://en.wikipedia.org/wiki/Kathryn_D._Sullivan), Administrator |
| **Parent agency** | [U.S. Department of Commerce](http://en.wikipedia.org/wiki/United_States_Department_of_Commerce) |
| **Website** | [www.noaa.gov](http://www.noaa.gov/) |

The **National Oceanic and Atmospheric Administration** (**NOAA**, pronounced [/](http://en.wikipedia.org/wiki/Help:IPA_for_English)[ˈnoʊ.ə](http://en.wikipedia.org/wiki/Help:IPA_for_English#Key)[/](http://en.wikipedia.org/wiki/Help:IPA_for_English), like "[Noah](http://en.wikipedia.org/wiki/Noah_(name))") is a scientific agency within the [United States Department of Commerce](http://en.wikipedia.org/wiki/United_States_Department_of_Commerce) focused on the conditions of the [oceans](http://en.wikipedia.org/wiki/Oceans) and the [atmosphere](http://en.wikipedia.org/wiki/Earth%27s_atmosphere). NOAA warns of dangerous [weather](http://en.wikipedia.org/wiki/Weather), charts seas and skies, guides the use and protection of ocean and coastal resources, and conducts research to improve understanding and stewardship of the [environment](http://en.wikipedia.org/wiki/Environment_(biophysical)). In addition to its civilian employees, 12,000 as of 2012, NOAA research and operations are supported by 300 [uniformed service](http://en.wikipedia.org/wiki/Uniformed_services_of_the_United_States) members who make up the [NOAA Commissioned Officer Corps](http://en.wikipedia.org/wiki/National_Oceanic_and_Atmospheric_Administration_Commissioned_Corps). The current [Under Secretary of Commerce for Oceans and Atmosphere](http://en.wikipedia.org/wiki/Under_Secretary_of_Commerce_for_Oceans_and_Atmosphere) at the Department of Commerce and the agency's administrator is [Kathryn D. Sullivan](http://en.wikipedia.org/wiki/Kathryn_D._Sullivan), who was nominated February 28, 2013, and confirmed March 6, 2014.

**Purpose and function**

[](http://en.wikipedia.org/wiki/File:NOAA_WP-3D_Orions.jpg)

Two NOAA [WP-3D Orions](http://en.wikipedia.org/wiki/Lockheed_WP-3D_Orion).

NOAA plays several specific roles in society, the benefits of which extend beyond the US economy and into the larger global community:

* *A Supplier of Environmental Information Products*. NOAA supplies information to its customers and partners pertaining to the state of the oceans and the atmosphere. This is clearly manifest in the production of weather warnings and forecasts through the [National Weather Service](http://en.wikipedia.org/wiki/National_Weather_Service), but NOAA's information products extend to climate, ecosystems, and commerce as well.
* *A Provider of Environmental Stewardship Services*. NOAA is also the steward of U.S. coastal and marine environments. In coordination with federal, state, local, tribal, and international authorities, NOAA manages the use of these environments, regulating fisheries and marine sanctuaries as well as protecting threatened and endangered marine species.
* *A Leader in Applied Scientific Research*. NOAA is intended to be a source of accurate and objective scientific information in the four particular areas of national and global importance identified above: ecosystems, climate, weather and water, and commerce and transportation.

The five "fundamental activities" are:

* Monitoring and observing Earth systems with instruments and data collection networks.
* Understanding and describing Earth systems through research and analysis of that data.
* Assessing and predicting the changes of these systems over time.
* Engaging, advising, and informing the public and partner organizations with important information.
* Managing resources for the betterment of society, economy and environment.

**History and organizational structure**

[](http://en.wikipedia.org/wiki/File:NOAA_Commissioned_Corps.png)

Seal of the NOAA Commissioned Corps

NOAA was formed on October 3, 1970, after [Richard Nixon](http://en.wikipedia.org/wiki/Richard_Nixon) proposed creating a new agency to serve a national need "… for better protection of life and property from natural hazards … for a better understanding of the total environment … and for exploration and development leading to the intelligent use of our marine resources ..." NOAA formed a conglomeration of several existing agencies that were among the oldest in the federal government. They were the [United States Coast and Geodetic Survey](http://en.wikipedia.org/wiki/U.S._Coast_and_Geodetic_Survey), formed in 1807; the [Weather Bureau](http://en.wikipedia.org/wiki/National_Weather_Service), formed in 1870—Geodetic Survey and Weather Service had been combined by a 1965 consolidation into the [Environmental Science Services Administration](http://en.wikipedia.org/wiki/Environmental_Science_Services_Administration) (ESSA); and the [Bureau of Commercial Fisheries](http://en.wikipedia.org/w/index.php?title=Bureau_of_Commercial_Fisheries&action=edit&redlink=1), formed in 1871. NOAA was established within the Department of Commerce via the [Reorganization Plan No. 4 of 1970](http://www.lib.noaa.gov/noaainfo/heritage/ReorganizationPlan4.html). With its ties to the United States Coast and [Geodetic](http://en.wikipedia.org/wiki/Geodesy) Survey, NOAA celebrated 200 years of service in 2007. The organization's moniker is pronounced "[Noah](http://en.wikipedia.org/wiki/Noah)," recalling the name of the Biblical character who weathered [The Great Flood](http://en.wikipedia.org/wiki/Flood_myth).

NOAA works toward its mission through six major line offices, in addition to more than a dozen staff offices:

**Line Offices**

* The [National Environmental Satellite, Data and Information Service](http://en.wikipedia.org/wiki/National_Environmental_Satellite,_Data_and_Information_Service) (NESDIS)
* The [National Marine Fisheries Service](http://en.wikipedia.org/wiki/National_Marine_Fisheries_Service) (NMFS)
* The [National Ocean Service](http://en.wikipedia.org/wiki/National_Ocean_Service) (NOS)
* The [National Weather Service](http://en.wikipedia.org/wiki/National_Weather_Service) (NWS)
* [Office of Oceanic and Atmospheric Research](http://en.wikipedia.org/wiki/Office_of_Oceanic_and_Atmospheric_Research) (OAR)
* [Office of Program Planning and Integration](http://en.wikipedia.org/w/index.php?title=Office_of_Program_Planning_and_Integration&action=edit&redlink=1) (PPI)

**Staff Offices**

* [Office of the Federal Coordinator for Meteorology](http://en.wikipedia.org/w/index.php?title=Office_of_the_Federal_Coordinator_for_Meteorology&action=edit&redlink=1)
* [Office of Marine and Aviation Operations](http://en.wikipedia.org/w/index.php?title=Office_of_Marine_and_Aviation_Operations&action=edit&redlink=1)
* [NOAA Central Library](http://en.wikipedia.org/wiki/NOAA_Central_Library)

**NOAA Corps**

Main article: [National Oceanic and Atmospheric Administration Commissioned Officer Corps](http://en.wikipedia.org/wiki/National_Oceanic_and_Atmospheric_Administration_Commissioned_Officer_Corps)

NOAA research and operational activities are supported by a [uniformed service](http://en.wikipedia.org/wiki/Uniformed_services_of_the_United_States), the [NOAA Corps](http://en.wikipedia.org/wiki/NOAA_Corps). They are a commissioned officer corps of men and women who operate [NOAA ships and aircraft](http://en.wikipedia.org/wiki/NOAA_ships_and_aircraft), and serve in scientific and administrative posts.

**National Weather Service (NWS)**

[](http://en.wikipedia.org/wiki/File:US-NationalWeatherService-Logo.svg)

Seal of the National Weather Service

Main article: [National Weather Service](http://en.wikipedia.org/wiki/National_Weather_Service)

The National Weather Service (NWS) is tasked with providing "weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and the enhancement of the national economy." This is done through a collection of national and regional centers, and more than 120 local weather forecast offices (WFOs). They are charged with issuing weather [forecasts](http://en.wikipedia.org/wiki/Weather_forecasting), [advisories, watches, and warnings](http://en.wikipedia.org/wiki/Severe_weather_terminology_(United_States)) on a daily basis. They issue more than 734,000 weather and 850,000 river forecasts, and more than 45,000 [severe weather warnings](http://en.wikipedia.org/wiki/Severe_weather_terminology_(United_States)) annually. NOAA data is also relevant to the issues of [global warming](http://en.wikipedia.org/wiki/Global_warming) and [ozone depletion](http://en.wikipedia.org/wiki/Ozone_depletion).

The NWS operates [NEXRAD](http://en.wikipedia.org/wiki/NEXRAD), a nationwide network of Doppler [weather radars](http://en.wikipedia.org/wiki/Weather_radar) which can detect [precipitation](http://en.wikipedia.org/wiki/Precipitation_(meteorology)) and their velocities. Many of their products are broadcast on [NOAA Weather Radio](http://en.wikipedia.org/wiki/NOAA_Weather_Radio), a network of [radio](http://en.wikipedia.org/wiki/Radio) [transmitters](http://en.wikipedia.org/wiki/Transmitter) that [broadcasts](http://en.wikipedia.org/wiki/Broadcasting) weather forecasts, severe weather statements, watches and warnings 24 hours a day.

**National Ocean Service (NOS)**

Main article: [National Ocean Service](http://en.wikipedia.org/wiki/National_Ocean_Service)

The National Ocean Service (NOS) focuses on ensuring that ocean and coastal areas are safe, healthy, and productive. NOS scientists, natural resource managers, and specialists serve America by ensuring safe and efficient marine transportation, promoting innovative solutions to protect coastal communities, and conserving marine and coastal places.

The National Ocean Service is composed of program offices, programs, and staff offices:

**Program Offices**

* [Center for Operational Oceanographic Products and Services (CO-OPS)](http://tidesandcurrents.noaa.gov/)
* [Coastal Services Center (CSC)](http://www.csc.noaa.gov/)
* [National Centers for Coastal Ocean Science (NCCOS)](http://tidesandcurrents.noaa.gov)
* [Office of Coast Survey (OCS)](http://www.nauticalcharts.noaa.gov)
* [Office of National Geodetic Survey (NGS)](http://geodesy.noaa.gov/)
* [Office of National Marine Sanctuaries (ONMS)](http://sanctuaries.noaa.gov/)
* [Office of Ocean and Coastal Resource Management (OCRM)](http://coastalmanagement.noaa.gov/)
* [Office of Response and Restoration (OR&R)](http://response.restoration.noaa.gov/)

**Programs**

* [Mussel Watch Contaminant Monitoring Program](http://en.wikipedia.org/wiki/Mussel_Watch_Program)
* NOAA Integrated Ocean Observing System (IOOS) Program

**Staff Offices**

* International Program Office (IPO)
* Management and Budget Office (M&B)

**National Environmental Satellite, Data, and Information Service (NESDIS)**

[](http://en.wikipedia.org/wiki/File:NOAAEngineerAtWork.jpg)

NOAA engineer at work

The **National Environmental Satellite, Data, and Information Service** (NESDIS) was created by NOAA to operate and manage the United States environmental satellite programs, and manage the data gathered by the NWS and other government agencies and departments. Data collected by the NWS, [U.S. Navy](http://en.wikipedia.org/wiki/U.S._Navy), [U.S. Air Force](http://en.wikipedia.org/wiki/U.S._Air_Force), the [Federal Aviation Administration](http://en.wikipedia.org/wiki/Federal_Aviation_Administration), and meteorological services around the world, are housed at the [National Climatic Data Center](http://en.wikipedia.org/wiki/National_Climatic_Data_Center) in [Asheville, North Carolina](http://en.wikipedia.org/wiki/Asheville,_North_Carolina). NESDIS also operates the [National Geophysical Data Center](http://en.wikipedia.org/wiki/National_Geophysical_Data_Center) (NGDC) in [Boulder, Colorado](http://en.wikipedia.org/wiki/Boulder,_Colorado), the [National Oceanographic Data Center](http://en.wikipedia.org/wiki/National_Oceanographic_Data_Center) (NODC) in [Silver Spring, Maryland](http://en.wikipedia.org/wiki/Silver_Spring,_Maryland), the [National Snow and Ice Data Center](http://en.wikipedia.org/wiki/National_Snow_and_Ice_Data_Center) (NSIDC) and the [National Coastal Data Development Center](http://en.wikipedia.org/w/index.php?title=National_Coastal_Data_Development_Center&action=edit&redlink=1) (NCDDC) which are used internationally by [environmental scientists](http://en.wikipedia.org/wiki/Environmental_science).

NESDIS also runs the:

* [Office of Systems Development (OSD)](http://www.osd.noaa.gov)
* [Office of Satellite Operations (OSO)](http://www.oso.noaa.gov)
* [Office of Satellite Data Processing & Distribution (OSDPD)](http://www.osdpd.noaa.gov/ml/index.html)
* [Satellite Applications and Research (STAR)](http://en.wikipedia.org/w/index.php?title=Satellite_Applications_and_Research_(STAR)&action=edit&redlink=1) formerly the Office of Research & Applications
* [Joint Polar Satellite System Program Office](http://www.nesdis.noaa.gov/jpss/)
* [GOES-R](http://en.wikipedia.org/wiki/Geostationary_Operational_Environmental_Satellite) Program Office
* [International & Interagency Affairs Office](http://en.wikipedia.org/w/index.php?title=International_%26_Interagency_Affairs_Office&action=edit&redlink=1)
* [Office of Space Commercialization](http://www.space.commerce.gov)

The service operates and manages many [geosynchronous satellites](http://en.wikipedia.org/wiki/Geosynchronous_satellites) and polar orbiting satellites. In 1960 [TIROS-1](http://en.wikipedia.org/wiki/TIROS-1), NOAA's first owned and operated geostationary satellite was launched. In 1983 NOAA assumed operational responsibility for [LANDSAT](http://en.wikipedia.org/wiki/Landsat_program) satellite system. In 1984 the [Tropical Ocean-Global Atmosphere program](http://en.wikipedia.org/wiki/Tropical_Ocean-Global_Atmosphere_program) (TOGA) program began.

In 1977 the [Pacific Marine Environmental Laboratory](http://en.wikipedia.org/wiki/Pacific_Marine_Environmental_Laboratory) (PMEL) deployed the first successful moored equatorial current meter – the beginning of the [Tropical Atmosphere Ocean](http://en.wikipedia.org/wiki/Tropical_Atmosphere_Ocean_project), TAO, array. In 1979 NOAA's first [polar-orbiting environmental satellite](http://en.wikipedia.org/wiki/Polar_Operational_Environmental_Satellites) was launched.

Current operational satellites include: [NOAA-15](http://en.wikipedia.org/wiki/NOAA-15), [NOAA-16](http://en.wikipedia.org/wiki/NOAA-16), [NOAA-17](http://en.wikipedia.org/wiki/NOAA-17), [NOAA-18](http://en.wikipedia.org/wiki/NOAA-18) and [NOAA-19](http://en.wikipedia.org/wiki/NOAA-19) (launched 2/6/2009).

**National Marine Fisheries Service (NMFS)**

Main article: [National Marine Fisheries Service](http://en.wikipedia.org/wiki/National_Marine_Fisheries_Service)

Fisheries, which was initiated in 1871 to protect, study, manage and restore [fish](http://en.wikipedia.org/wiki/Fish). The NMFS has a marine [fisheries](http://en.wikipedia.org/wiki/Fishery) research lab in [Woods Hole, Massachusetts](http://en.wikipedia.org/wiki/Woods_Hole,_Massachusetts) and is home to one of NOAA's five fisheries science centers.

Its law enforcement agency is the [National Oceanic and Atmospheric Administration Fisheries Office for Law Enforcement](http://en.wikipedia.org/wiki/National_Oceanic_and_Atmospheric_Administration_Fisheries_Office_for_Law_Enforcement) based in [Silver Spring, Maryland](http://en.wikipedia.org/wiki/Silver_Spring,_Maryland).

**Office of Oceanic and Atmospheric Research (OAR)**

Main article: [Office of Oceanic and Atmospheric Research](http://en.wikipedia.org/wiki/Office_of_Oceanic_and_Atmospheric_Research)

NOAA's research, conducted through the Office of Oceanic and Atmospheric Research (OAR), is the driving force behind NOAA environmental products and services that protect life and property and promote economic growth. Research, conducted in OAR laboratories and by extramural programs, focuses on enhancing our understanding of environmental phenomena such as tornadoes, hurricanes, climate variability, solar flares, changes in the ozone, [air pollution transport and dispersion](http://en.wikipedia.org/wiki/Atmospheric_dispersion_modeling), El Niño/La Niña events, fisheries productivity, ocean currents, deep sea thermal vents, and coastal ecosystem health. NOAA research also develops innovative technologies and observing systems.

The NOAA Research network consists of 7 internal research laboratories, extramural research at 30 [Sea Grant](http://en.wikipedia.org/wiki/Sea_Grant_Colleges) university and research programs, six undersea research centers, a research grants program through the Climate Program Office, and 13 cooperative institutes with academia. Through NOAA and its academic partners, thousands of scientists, engineers, technicians, and graduate students participate in furthering our knowledge of natural phenomena that affect the lives of us all.

The [Air Resources Laboratory](http://en.wikipedia.org/wiki/Air_Resources_Laboratory) (ARL) is one of the laboratories in the Office of Oceanic and Atmospheric Research. It studies processes and develops models relating to climate and air quality, including the transport, [dispersion](http://en.wikipedia.org/wiki/Atmospheric_dispersion_modeling), transformation and removal of [pollutants](http://en.wikipedia.org/wiki/Pollutants) from the ambient atmosphere. The emphasis of the ARL's work is on data interpretation, technology development and transfer. The specific goal of ARL research is to improve and eventually to institutionalize prediction of trends, dispersion of [air pollutant plumes](http://en.wikipedia.org/wiki/Air_pollution_dispersion_terminology), [air quality](http://en.wikipedia.org/wiki/Air_quality), atmospheric deposition, and related variables.

The Atlantic Oceanographic and Meteorological Laboratory (AOML, <http://www.aoml.noaa.gov>), is part of NOAA's Office of Oceanic and Atmospheric Research, located in Miami, Florida. AOML's research spans hurricanes, coastal ecosystems, oceans and human health, climate studies, global carbon systems, and ocean observations. AOML's organizational structure consists of an Office of the Director and three scientific research divisions (Physical Oceanography, Ocean Chemistry and Ecosystems, and Hurricane Research). The Office of the Director oversees the Laboratory's scientific programs, as well as its financial, administrative, computer, outreach/education, and facility management services. Research programs are augmented by the Cooperative Institute for Marine and Atmospheric Studies (CIMAS), a joint enterprise with the University of Miami's Rosenstiel School of Marine and Atmospheric Science. CIMAS enables AOML and university scientists to collaborate on research areas of mutual interest and facilitates the participation of students and visiting scientists. AOML is a member of a unique community of marine research and educational institutions located on Virginia Key in Miami, Florida.

**National Geodetic Survey (NGS)**

Main article: [U.S. National Geodetic Survey](http://en.wikipedia.org/wiki/U.S._National_Geodetic_Survey)

The National Geodetic Survey is the primary [surveying](http://en.wikipedia.org/wiki/Surveying) organization in the United States.

**National Integrated Drought Information System**

Main article: [National Integrated Drought Information System](http://en.wikipedia.org/wiki/National_Integrated_Drought_Information_System)

NOAA is the lead federal agency for the National Integrated Drought Information System (NIDIS).

**Program Planning and Integration (PPI)**

The Office of Program Planning and Integration was established in June 2002 as the focus for a new corporate management culture at NOAA. PPI was created to address the needs to:

* Foster strategic management among NOAA Line and Staff Offices, Goal Teams, Programs, and Councils,
* Support planning activities through greater opportunities for active participation of employees, stakeholders, and partners,
* Build decision support systems based on the goals and outcomes set in NOAA's strategic plan, and
* Guide managers and employees on program and performance management, the [National Environmental Policy Act](http://en.wikipedia.org/wiki/National_Environmental_Policy_Act), and socioeconomic analysis.

**Intergovernmental Panel on Climate Change**

Since 2001, the organization has hosted the senior staff and recent chair, [Susan Solomon](http://en.wikipedia.org/wiki/Susan_Solomon), of the [Intergovernmental Panel on Climate Change](http://en.wikipedia.org/wiki/Intergovernmental_Panel_on_Climate_Change)'s working group on climate science.

**Flag**

[](http://en.wikipedia.org/wiki/File:NOAA_Flag.svg)

The National Oceanic and Atmospheric Administration flag, flown as a distinguishing mark by all commissioned NOAA ships.

The NOAA flag is a modification of the flag of one of its predecessor organizations, the [United States Coast and Geodetic Survey](http://en.wikipedia.org/wiki/United_States_Coast_and_Geodetic_Survey). The Coast and Geodetic Survey '​s flag, authorized in 1899 and in use until 1970, was blue, with a white circle centered in it and a red triangle centered within the circle. It symbolized the use of [triangulation](http://en.wikipedia.org/wiki/Triangulation) in [surveying](http://en.wikipedia.org/wiki/Surveying), and was flown by ships of the Survey.

When NOAA was established in 1970 and the Coast and Geodetic Survey's assets became a part of NOAA, NOAA based its own flag on that of the Coast and Geodetic Survey. The NOAA flag is in essence the Coast and Geodetic Survey flag, with the NOAA logo—a circle divided by the silhouette of a seabird into an upper dark blue and a lower light blue section, but with the "NOAA" legend omitted—centered within the red triangle. NOAA ships in [commission](http://en.wikipedia.org/wiki/Ship_commissioning) display the NOAA flag; those with only one [mast](http://en.wikipedia.org/wiki/Mast_(sailing)) fly it immediately beneath the ship's [commissioning pennant](http://en.wikipedia.org/wiki/Commissioning_pennant) or the personal flag of a civilian official or [flag officer](http://en.wikipedia.org/wiki/Flag_officer) if one is aboard the ship, while multimasted vessels fly it at the masthead of the forwardmost mast. NOAA ships fly the same [ensign](http://en.wikipedia.org/wiki/Ensign) as [United States Navy](http://en.wikipedia.org/wiki/United_States_Navy) ships but fly the NOAA flag as a distinguishing mark to differentiate themselves from Navy ships.

**See also**

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| [Portal icon](http://en.wikipedia.org/wiki/File:Helmet_logo_for_Underwater_Diving_portal.png) | [***Underwater diving portal***](http://en.wikipedia.org/wiki/Portal:Underwater_diving) |

* [Center for Environmental Technology](http://en.wikipedia.org/wiki/Center_for_Environmental_Technology) (CET)
* [Federation of Earth Science Information Partners (ESIP Federation)](http://en.wikipedia.org/wiki/Federation_of_Earth_Science_Information_Partners_(ESIP_Federation))
* [Marine Mammal Protection Act of 1972](http://en.wikipedia.org/wiki/Marine_Mammal_Protection_Act_of_1972)
* [Title 15 of the Code of Federal Regulations](http://en.wikipedia.org/wiki/Title_15_of_the_Code_of_Federal_Regulations)
* [National Oceanic and Atmospheric Administration Commissioned Corps](http://en.wikipedia.org/wiki/National_Oceanic_and_Atmospheric_Administration_Commissioned_Corps)
* [Minerals Management Service](http://en.wikipedia.org/wiki/Minerals_Management_Service)
* [NOAA's Environmental Real-time Observation Network](http://en.wikipedia.org/wiki/NOAA%27s_Environmental_Real-time_Observation_Network)
* [NOAA's Virtual World Program](http://en.wikipedia.org/wiki/SciLands)
* [Volcanic Ash Advisory Center](http://en.wikipedia.org/wiki/Volcanic_Ash_Advisory_Center)
* [Weather Modification Operations and Research Board](http://en.wikipedia.org/wiki/Weather_Modification_Operations_and_Research_Board)
* [Office of Naval Research](http://en.wikipedia.org/wiki/Office_of_Naval_Research)
* [United States Naval Research Laboratory](http://en.wikipedia.org/wiki/United_States_Naval_Research_Laboratory)
* [University-National Oceanographic Laboratory System](http://en.wikipedia.org/wiki/University-National_Oceanographic_Laboratory_System)
* [List of auxiliaries of the United States Navy](http://en.wikipedia.org/wiki/List_of_auxiliaries_of_the_United_States_Navy)
* [National Weather Service Employees Organization](http://en.wikipedia.org/wiki/National_Weather_Service_Employees_Organization)
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