



JOINT INSTITUTE FOR THE STUDY OF THE ATMOSPHERE AND OCEAN

AN INNOVATIVE COLLABORATION

Established in 1977 as a partnership between the University of Washington (UW) and the National Oceanic and Atmospheric Administration (NOAA), JISAO fosters collaborative, multidisciplinary research across ocean, atmosphere, and fishery sciences.

Among the oldest and largest of NOAA's Cooperative Institutes, the Joint Institute for the Study of the Atmosphere and Ocean (JISAO) promotes collaborative, interdisciplinary research that spans the globe and focuses on critical environmental issues including climate change, ocean acidification, tsunami forecasting and fisheries assessments.

JISAO's location on the University of Washington campus ensures major resources, facilities, and support from one of the preeminent institutions in the U.S. Strong working partnerships with NOAA laboratories are among the Institute's greatest assets. As part of the UW College of the Environment, JISAO works collaboratively with more than ten academic units within the university and is home to the Office of the Washington State Climatologist.



267

PEER-REVIEWED PUBLICATIONS
PUBLISHED BETWEEN APRIL 2016 AND
MARCH 2018

PERSONNEL

- > **120** employees
- > **80%** of JISAO employees located at a NOAA lab (PMEL, AFSC, and NWFSC)
- > **28** research scientists with Principal Investigator status
- > **9** postdoctoral research associates



RESEARCH

JISAO and NOAA researchers represent a broad range of expertise within seven core themes. Scientists focus research on such critical issues as climate change, ocean acidification, tsunami forecasting, and fisheries assessment by:

- > Collecting and analyzing data to better understand physical, biological, and chemical processes of ocean and coastal areas.
- > Increasing our knowledge of climate variability, change, and impacts on ecosystems.
- > Studying hydrothermal vents and volcanoes on the seafloor.
- > Studying effects of interactions between human communities and natural ecosystems.
- > Developing tools and technologies to restore and protect marine habitats.
- > Improving tsunami forecasting and prediction of impacts.

EDUCATION AND OUTREACH

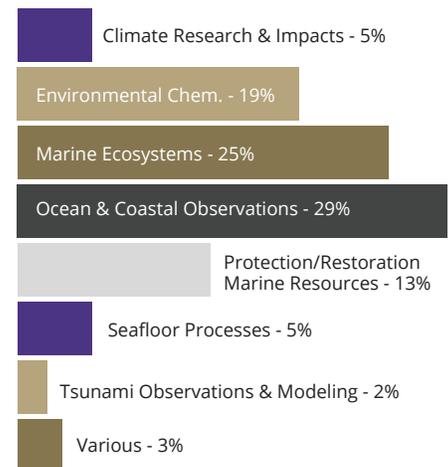
JISAO's Education and Outreach Program continues its important contributions to environmental literacy and mentoring the next generation of scientists who reflect the diversity of our nation.

- > **Intern Program** — Since 2008 JISAO's intern program has hosted 83 students from schools across the U.S. Nine former interns have received graduate degrees including two Ph.D's. Twenty students are currently in graduate school with five at the University of Washington.
- > **Postdoc Program** — JISAO currently funds nine postdoctoral researchers. JISAO postdocs are given the opportunity to construct their own research project, encouraging them to think broadly and to work closely with the distinguished scientists at the UW and NOAA laboratories
- > **Community Outreach** — JISAO researchers donate their time and expertise for events such as the NOAA Science Camp, Polar Science Weekend, Orca Bowl, Discover Science Weekend, and career days at local elementary and high schools.

CORE RESEARCH THEMES

- > **Climate Research and Impacts**
- > **Environmental Chemistry**
- > **Marine Ecosystems**
- > **Ocean and Coastal Observations**
- > **Protection and Restoration of Marine Resources**
- > **Seafloor Processes**
- > **Tsunami Observations and Modeling**

PROPORTION OF FUNDING BY THEME



FUNDING

JISAO's Cooperative Agreement funding for April 2017 - March 2018 totaled **\$20,849,886**. Within this period, JISAO Principal Investigators received additional research grants and contracts totaling **\$2,984,164** from other funding agencies including NSF, the Office of Naval Research, the Packard Foundation, and NASA.

JISAO's Cooperative Agreement is funded through three tasks:

TASK I – Internal Research Initiatives — include postdoctoral researchers, senior visiting scientists, education/outreach activities, and administrative support.

TASK II – NOAA Cooperative Agreement — funds research scientists and technical staff who work and collaborate with scientists at the local NOAA laboratories.

TASK III – External Funding — supports research projects initiated by JISAO scientists and UW faculty from a broad range of academic departments.

PROPORTION OF FUNDING BY TASK

