

www.nanoos.org

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Northwest Association of Networked Ocean Observing Systems

NANOOS logo Artist Tom Guthrie is a member of the Tsimshian Tribe whose art illustrates tribal and clan stories and their relationship to nature.

The logo depicts a Circle of Protectors. At the top is Raven (left) and Eagle (right), protectors of the sky. On the bottom is Wolf (left), protector of the land, and Killer Whale (right), protector of the ocean. Together the four protect the entirety of the environment in which we live. The continuous circle of red — the color of life — shows their interconnectivity with all of life including our own. Within the center of the logo are Tsimshian stylized ocean waves, the very heart of **NANOOS**.

Native Americans are the original protectors of the Pacific Northwest. Their reverence for nature is reflected in the **NANOOS** logo — a symbolic representation of the protection of our coastal ocean ecosystem, the living beings that depend upon that ecosystem, and the central role water plays in our lives.

Stewardship of the ocean is the goal of the Integrated Ocean Observing System (IOOS) nationally and **NANOOS** regionally. This includes providing information and tools to enable maintenance of healthy ecosystems and sustainable use of our natural resources, increased safety and efficiency of maritime operations, protection of public health, and mitigation of natural disasters.

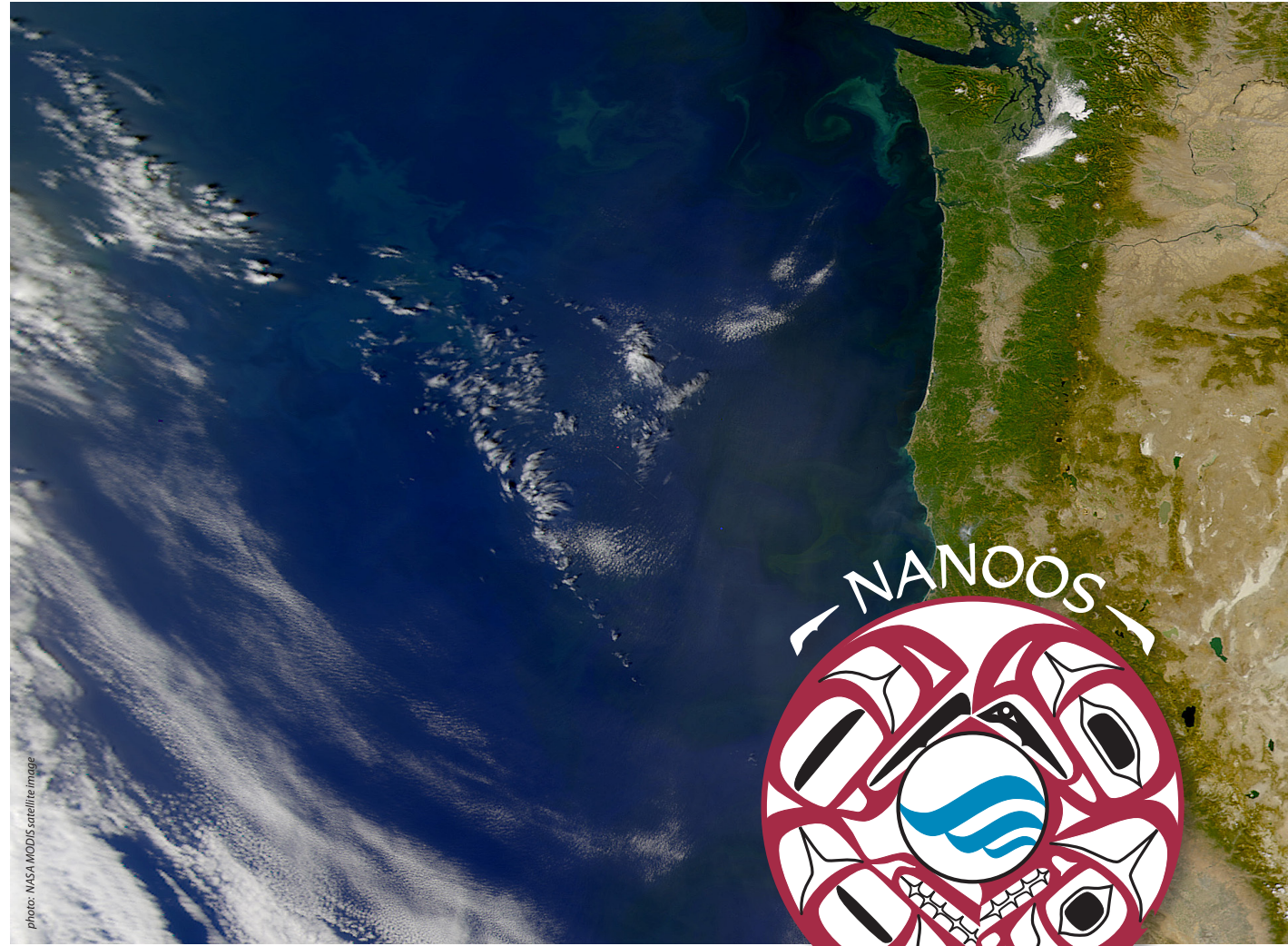


photo: NASA MODIS satellite image



Mission

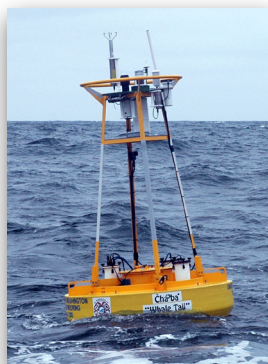
NANOOS is the Pacific Northwest Regional Association (RA) of the U.S. Integrated Ocean Observing System (IOOS®), a national effort designed to enable the broadest access to ocean data, tools, products, and knowledge.

Our nation's security, environment, and economy all depend on our ability to understand, monitor, and adapt to changes in our oceans, coastal waters, estuaries, shorelines, and Great Lakes.

IOOS provides coordination of people, technology, and data from eleven Regional Associations around the country so that information is comprehensive, consistent, usable, and freely available to inform decision making.

Many technologies used in coastal ocean observing allow us a round-the-clock look at what is happening above and below the water.

NANOOS has strong partnerships with the Alaska and California IOOS Regional Associations, as well as observing networks in British Columbia, Canada.



Focus

NANOOS delivers data and information needed to increase understanding and support decisions about our region's shorelines, estuaries, and coastal ocean to:

- Improve predictions of climate
- Increase efficiency of marine operations
- Mitigate coastal hazards
- Enhance healthy marine ecosystems
- Sustain living marine resources
- Decrease public health risks
- Aid national security efforts

Just as coastal ocean influences are pervasive, benefits of **NANOOS** reach a broad spectrum of PNW residents, including coastal managers, tribes, industry, scientists, educators, students, and the public.

Input from these groups guide **NANOOS's** focus on supporting these regional priorities:

- Maritime operations
- Coastal hazards
- Ecosystem assessment
- Fisheries and marine biodiversity
- Climate

Investments in **NANOOS** have resulted in additional green-energy jobs, better-informed decisions, and new innovation. **NANOOS** serves as a portal for access to a wide diversity of information.

www.nanoos.org

Access

Increasingly, decision-makers from industry, resource management, and other stakeholders are depending on **NANOOS** for high-quality data, data products, and forecasts.

NANOOS integrates observation assets from many providers, including county, state, tribal, federal and Canadian agencies, private industries, regional partnerships, non-profits, and academic groups.

Examples of what you can get from NANOOS:

- **Real-time and near real-time data**
 - Surface current and wave speed and direction
 - Water quality and ocean acidification data
 - Biological data (plankton and animal tracking)
 - Real-time weather observations
- **Archived data**
 - Research cruise and glider data
- **Data products and decision tools**
 - Shoreline and beach maps
 - Tsunami evacuation routes
- **Forecasts and model output**
 - Weather, wave, and water properties
- **Information and learning resources**
 - Tutorials and lesson plans

