MODULE 3: An Overview of NOAA’s Satellite & Information Service, National Weather Service, & NOAA Fisheries

We recommend watching Module 1 prior to viewing this presentation.

National Environmental Satellite, Data, and Information Service (NESDIS)
NESDIS Education Vision:
A public well-informed of space science, weather phenomena and the benefits Earth-observing satellites provide.

NESDIS Education Mission:
To enhance understanding of the Earth’s atmospheric, oceanic and terrestrial systems, and promote data literacy through the use of NOAA satellite imagery and data.

NOAA’s Satellites & Information Service incorporates and supports the work of educational partners and programs within and outside of NOAA.
National Weather Service (NWS)

NWS Mission: Provide weather, water, and climate data forecasts and warnings for the protection of lives, property and enhancement of the national economy.

NWS Vision: A Weather-Ready Nation: Society is prepared for and responds to weather-related events.

NWS Education Guiding Principles:
- Reach, connect and inspire all audiences/partners
- Leverage existing expertise across NWS within the career fields of STEM
- Support NOAA Education by promoting citizen science
- Link closely with NOAA Education and its program and activities

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NWS Education Priorities
● Develop comprehensive education portfolio
● Execute NWS Needs Assessment activity
● Develop Weather Ready Nation Ambassadors Network
● Strategic Decision-Making on NOAA and NWS education events (school visits/exhibits)
● Ensure a diverse and highly skilled workforce (STEM) for today and beyond
● Develop collaborative learning opportunities for educators, students and the public
● Expand and strengthen partnerships

NWS Priority Education Activities
● Introduce JetStream2
● Young Meteorologist Program
● American Meteorological Society-Education

Weather Forecast Office Locations
National Marine Fisheries Service At-Large (NOAA Fisheries)

NOAA Fisheries Education:
• Regionally-based program
• Strong connections between science, conservation, and management
• Outreach, informal education, and formal education
• Maximize effectiveness through partnerships with other educational organizations and NOAA offices

Education programs within Fisheries with a larger national or regional framework:
• NOAA’s Teacher at Sea Program
• Bay-Watershed Education & Training (BWET) Programs for Chesapeake Bay, Gulf of Mexico and New England.
• Partnership with NOAA’s Climate Stewards Program

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Examples of NOAA Fisheries Education Regional Programs

- Northeast Region
  - Partnership Education Program, NOAA Environmental Science Training Center professional development opportunities
- Northwest/West Coast Region
  - NOAA Science Camp, Teacher in the Lab, World Fish Migration Day
- Southeast Region
  - Recruitment Training Research Program
- Southwest Region
  - Squids4Kids
- Pacific Islands Region
  - PIFSC Young Scientist Opportunity, NOAA Fisheries Science Camp
- Alaska Region
  - Sea Week, Sun to Sea Camp, SEAK Science Fair
- Headquarters
  - NEMO program, QUEST program
The NOAA Teacher at Sea (TAS) program is located in NOAA Fisheries but supports all of NOAA

- Teachers sail on all types of NOAA research cruises
- TAS alumni assist other Line Offices with education and outreach activities

For More Information

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The mission of NOAA’s Teacher at Sea Program is to give teachers:

- A clearer insight into our ocean planet,
- A greater understanding of maritime work and studies, and
- To increase their level of environmental literacy by fostering an interdisciplinary research experience.

NEXT MODULE: NOAA’s National Ocean Service (NOS)