NOAA’s Teacher at Sea Program:
A Journey on the NOAA Ship Thomas Jefferson

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# What is NOAA?

## Science, Service, and Stewardship
- To understand and predict changes in climate, weather, oceans, and coasts
- To share that knowledge and information with others
- To conserve and manage coastal and marine ecosystems and resources

## National Environmental Satellite, Data, and Information Service
- National Marine Fisheries Service
- National Ocean Service
- National Weather Service
- Office of Oceanic and Atmospheric Research
- Office of Program Planning and Integration
NOAA’s Teacher at Sea Program

- **Mission:** To provide teachers hands-on, real-world research experience working at sea with world-renowned NOAA scientists, thereby giving them unique insight into the oceanic and atmospheric research crucial to the nation.

- **Vision:** to be NOAA’s main provider to teachers of opportunities to participate in real-world scientific research and maritime activities through teacher research experiences.
NOAA’s Teacher at Sea Program

- **Overarching Goal:** NOAA’s Teacher at Sea program’s goals support NOAA’s environmental literacy, outreach, and education goals and also support NOAA’s workforce retention goal to recruit and retain a highly adaptable, technically competent and diverse workforce.
NOAA’s Teacher at Sea Program: Program Goals

**Short-term Goals (Skills and Knowledge)**
Teachners will:
- Understand how NOAA oceanic and atmospheric research is linked to National Education Science Standards and Ocean Literacy Principles.
- Understand the education and training paths that lead to NOAA-related careers.

**Mid-term Goals (Behavior and Action)**
Teachners will:
- Use NOAA data and resources in classroom activities.
- Use NOAA-related career information in classroom activities, when mentoring students and when working with colleagues.

**Long-term Goals (Social, Environmental, and Economic)**
In support of NOAA’s mission, the Teacher at Sea Program will:
- Build an understanding of earth system science among teachers and students.
- Build a workforce for science, technology, engineering, and math careers.

Note: Goals were created using the Bennett Logic Model. External evaluation data indicates we are meeting our Short- and Mid-term Goals, and beginning to meet long-term goal.
NOAA’s Teacher at Sea Program

Life at Sea & the 3 F’s

Flexibility
Fortitude
Following Orders
NOAA’s Teacher at Sea Program: Types of Cruises

What Might You Do As a Teacher at Sea?

Types of cruises:
- Fisheries
- Oceanographic
- Hydrographic Survey
NOAA’s Teacher at Sea Program

Why hydrographic surveying?
- NOAA animations on multibeam and side scan sonar:
  http://www.nauticalcharts.noaa.gov/staff/education_animations.htm
NOAA’s Teacher at Sea Program

Teacher at Sea Duties

Before

During

After
NOAA’s Teacher at Sea Program: Safety first!
NOAA’s Teacher at Sea Program

http://teacheratsea.noaa.gov
NOAA's Teacher at Sea Program

http://teacheratsea.noaa.gov
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http://teacheratsea.noaa.gov
NOAA’s Teacher at Sea Alumni Association (TASA)
NOAA’s Teacher at Sea Program

Any questions?

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*Available for a Skype session with your students!

http://teacheratsea.noaa.gov/2014/guertin.html