



SEA Semester



SEA Semester[®]

Environmental Studies in Woods Hole & at Sea

Creating ocean
scholars, stewards &
leaders since 1971



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Environmental Studies in Woods Hole & at Sea



Our Mission

SEA is an educational institution dedicated to the exploration, understanding and stewardship of the oceans, and to the study of humanity's relationship with the oceans. SEA offers students an interdisciplinary curriculum, on shore and at sea aboard tall ships, that provides challenging voyages of scientific discovery, academic rigor, and personal growth.



SEA Semester Campus

Woods Hole, Massachusetts



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Photo: Doug Weisman, Woods Hole Oceanographic Institution

SEA Semester Programs and Voyages



SEA Semester

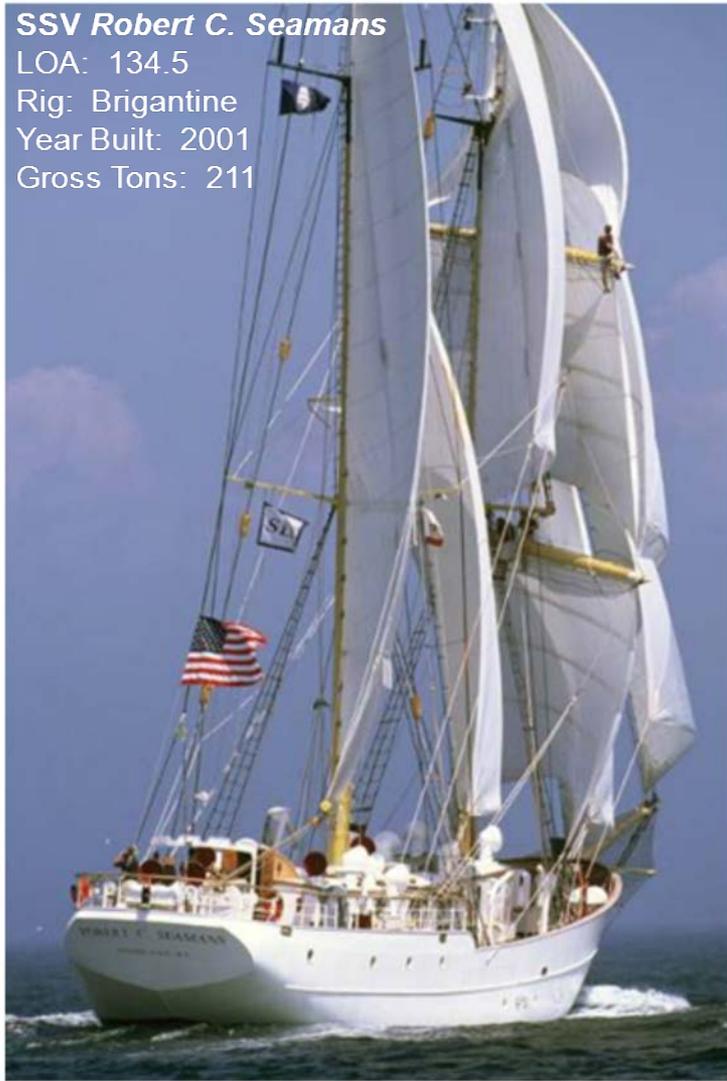


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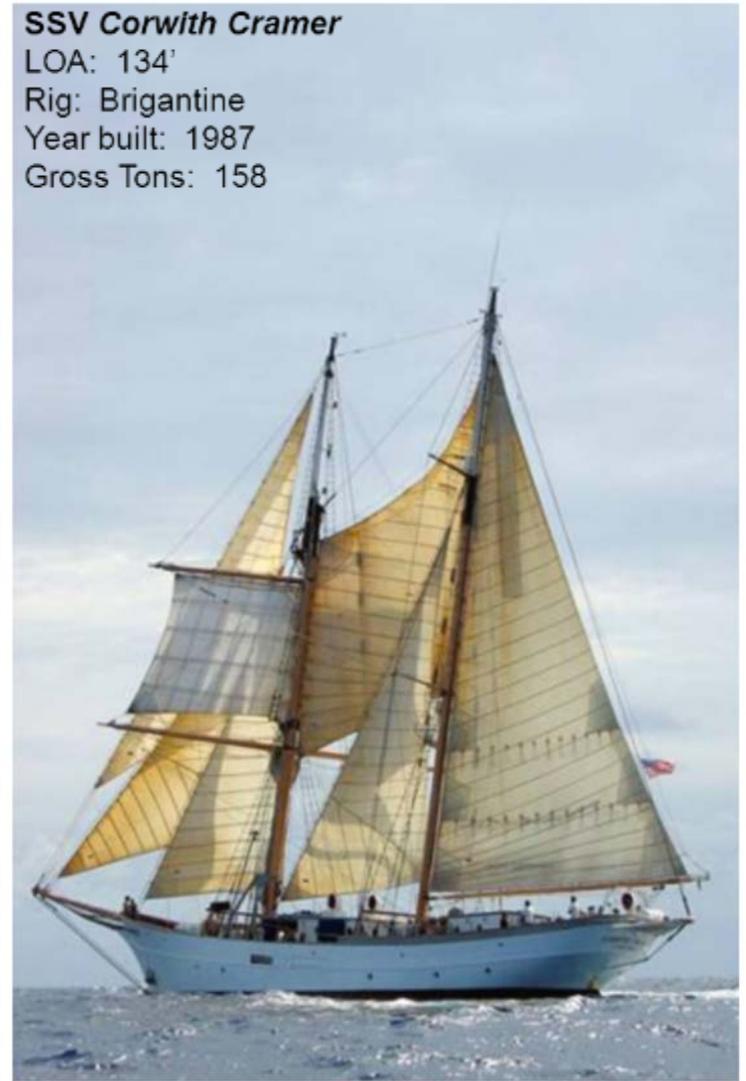
SSV Robert C. Seamans

LOA: 134.5
Rig: Brigantine
Year Built: 2001
Gross Tons: 211



SSV Corwith Cramer

LOA: 134'
Rig: Brigantine
Year built: 1987
Gross Tons: 158



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Research at SEA



Chemical/Physical



Biological



Geological

Research Equipment

Markey research winch with 5000m wire

Seabird carousel sampler with CTD, Chl a, CDOM,
PAR, Transmissometer, O₂ sensors

Flow through SW system with sensors

RDI Acoustic Doppler Current Profiler

Knudsen CHIRP sub-bottom profiler

ROV (color/B-W cameras)

Gravity core and Shipek grab

Epifluorescence & stereo microscopes

DNA extraction & amplification setups

Comprehensive set of plankton nets

Chemical analyses for common nutrients & pH

Raman spectrometer



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Multi-disciplinary learning communities that address the critical environmental issues of our time.



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Students develop well-researched projects to bring into the field.



Students take what they learned in the classroom and test it against their observations.

Learn by doing

against their observations.

We stress good communication skills, both written and oral.

Shore, Ship, Foreign ports:

Students *take what they learned in the classroom and test it against their observations.*

We stress *good communication skills*, both written and oral.



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Learning Outcomes

Dynamic environment requires teamwork and problem solving. Students put new leadership skills into practice in a real-world situation.

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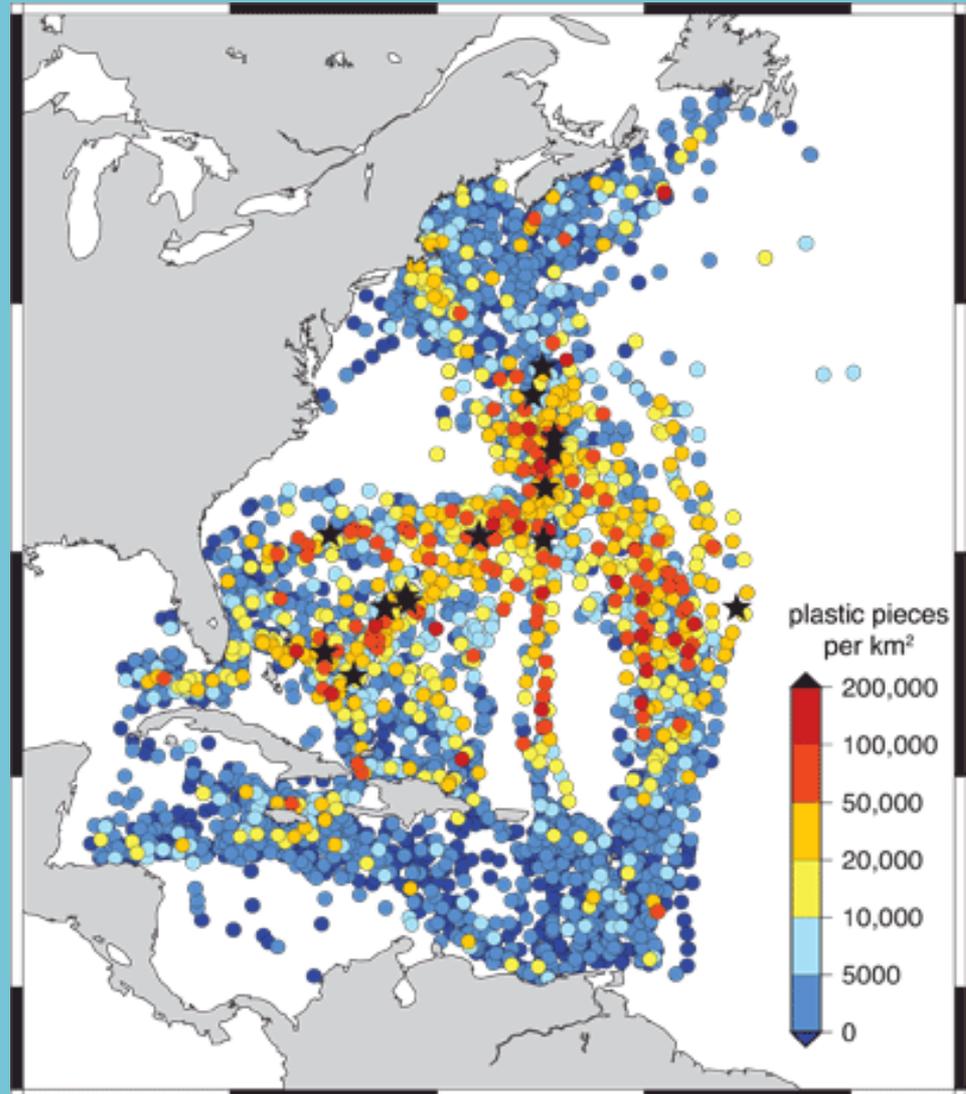


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Research at SEA

Microplastic
abundance and
distribution



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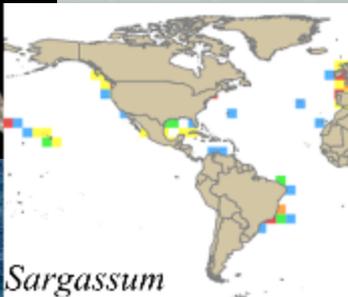
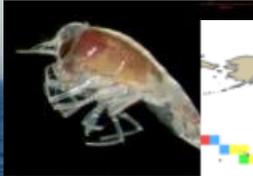
Global Contributions

Census of Marine Life

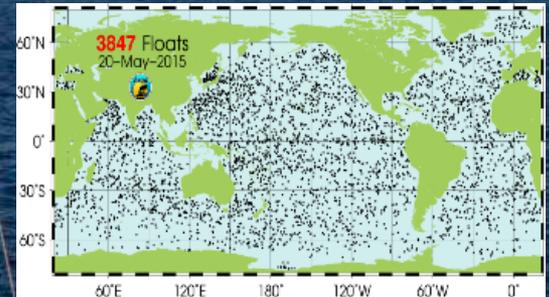
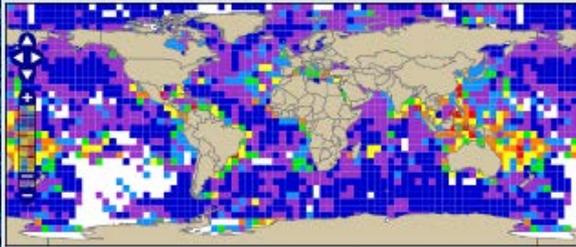
Ocean Biogeographic Information System (OBIS)

NSF R2R archive

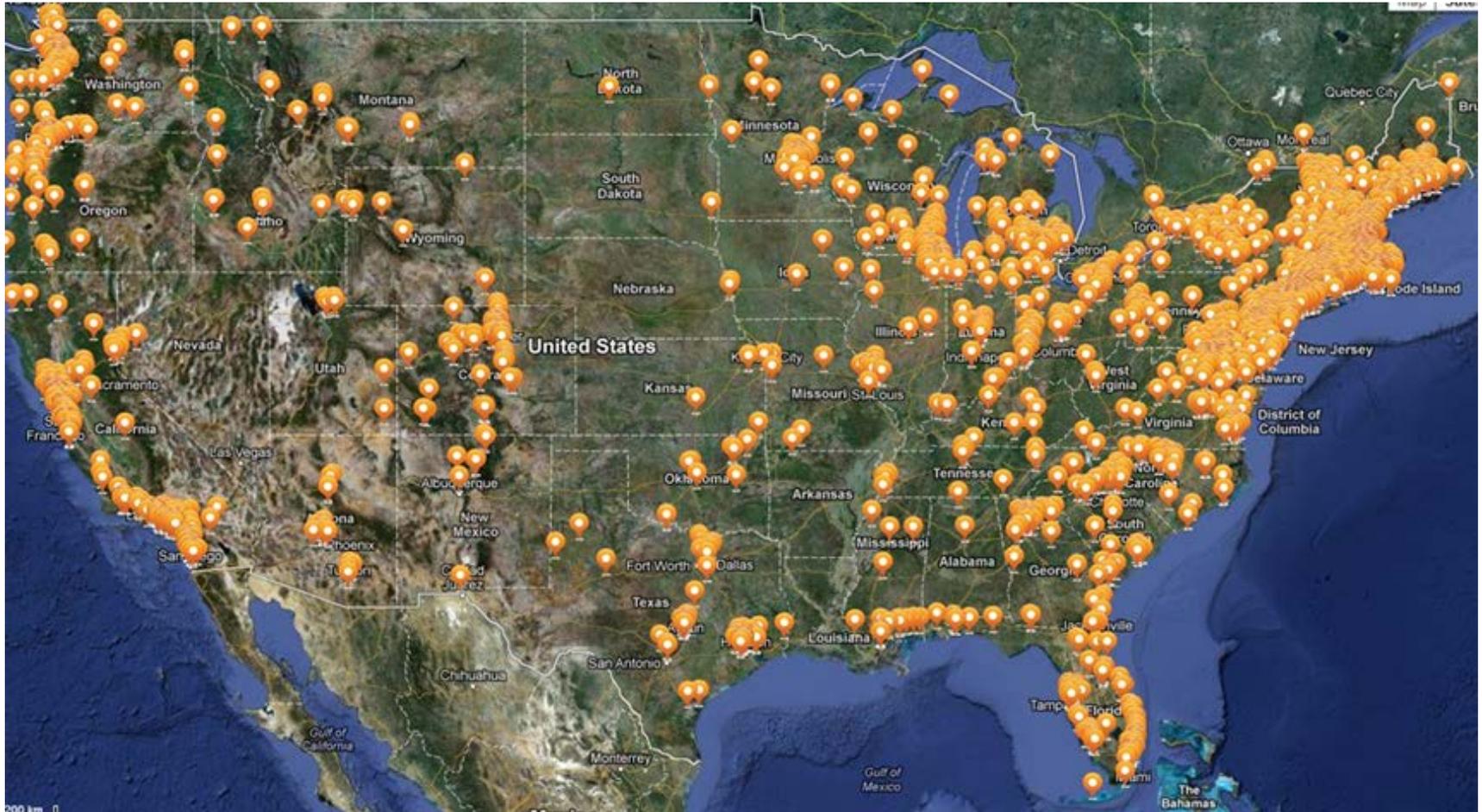
Ocean Genome Legacy



42 million records
146 thousand species



SEA Alumni



Multi-disciplinary learning communities
that bridge science...



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... and society.



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www.sea.edu