Dawn Wright

Department of Geosciences Oregon State University dawn@dusk.geo.orst.edu twitter.com/deepseadawn

2010 SACNAS National Conference, Anaheim, CA





- Born in Maryland, raised in Hawaii
- Age 8
- Super supportive mom
- Great teachers, esp. in 4th grade

- Lots of books, lots of good TV!
- Adventure







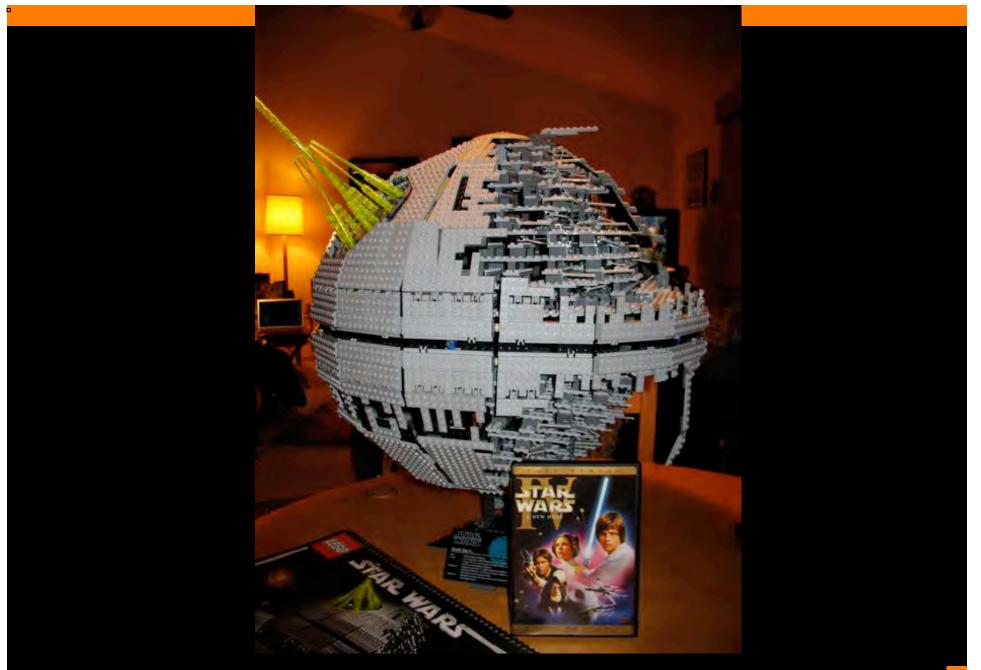
B.S. in Geology
Wheaton College in Illinois
M.S. in Oceanography
Texas A&M
Ph.D. in Physical Geography &
Marine Geology
UC-Santa Barbara











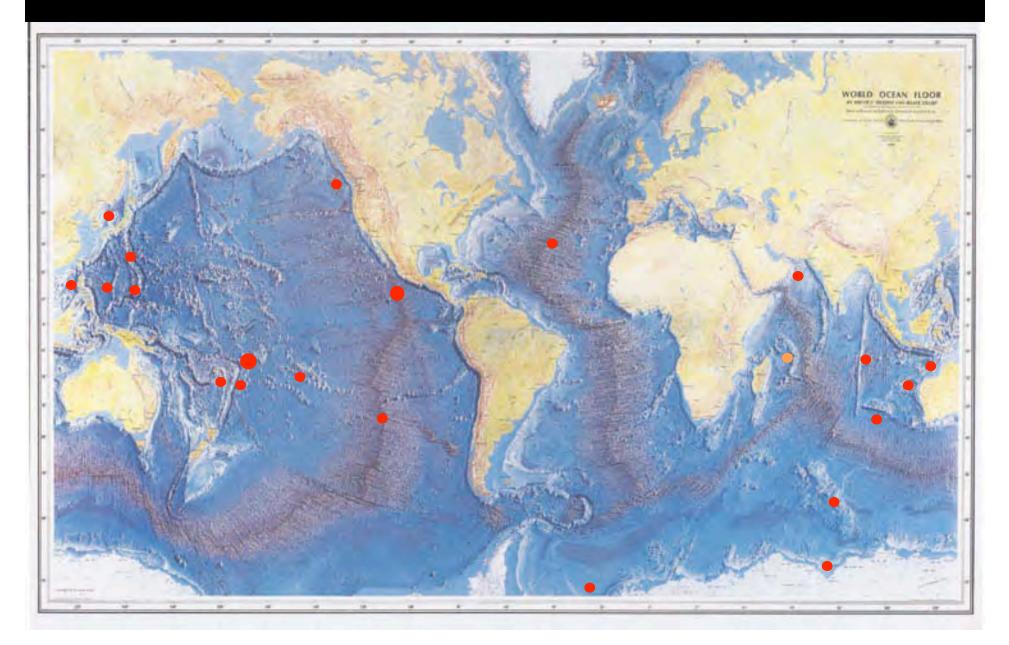








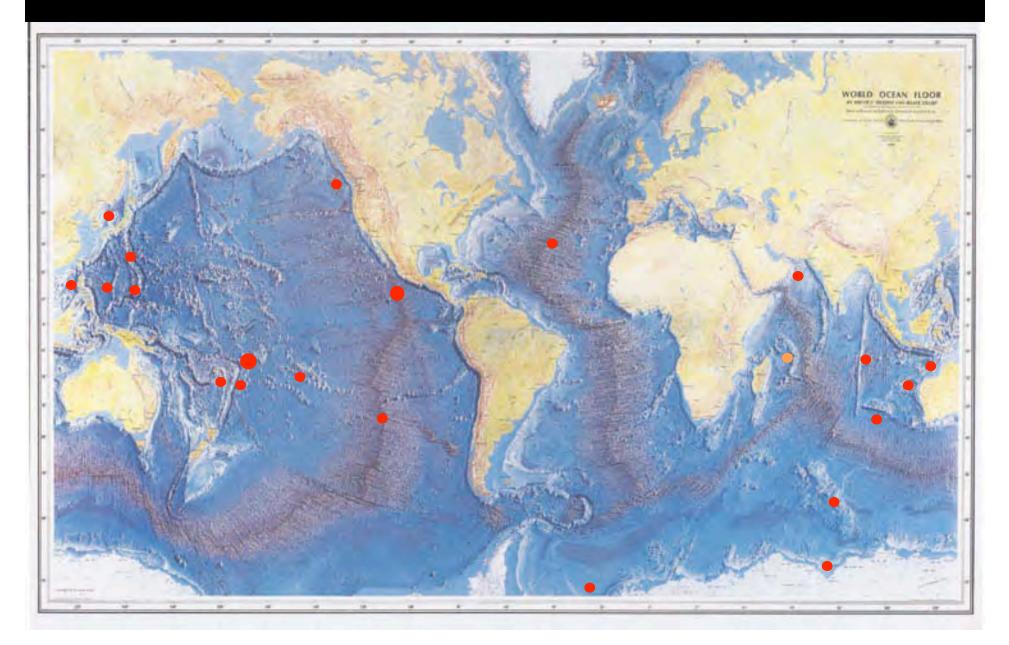
The World Ocean Floor & "Deepsea Dawn" at Sea

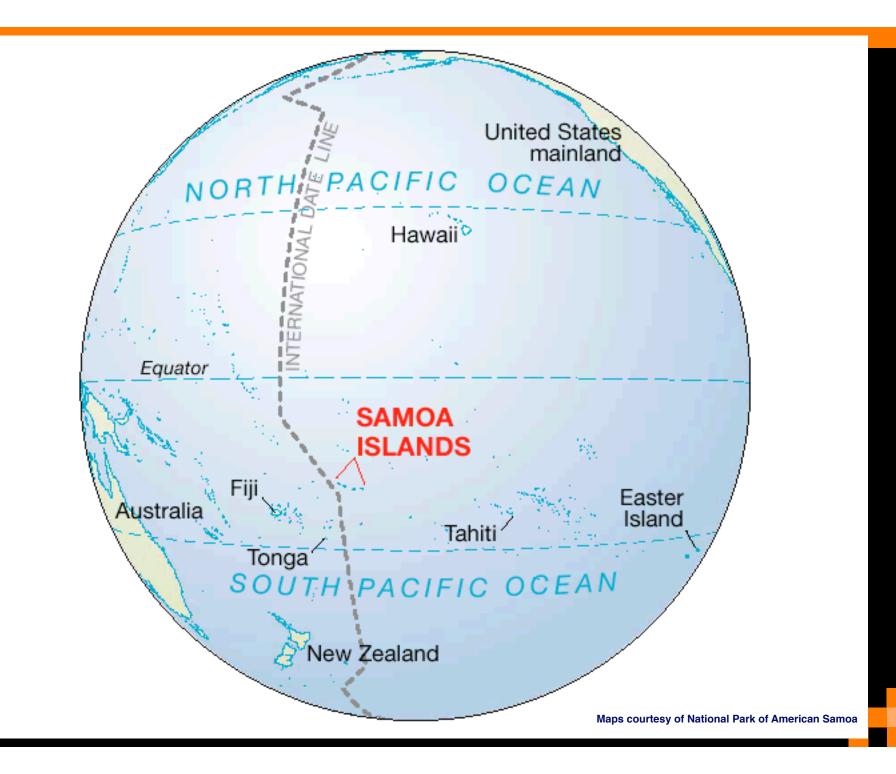


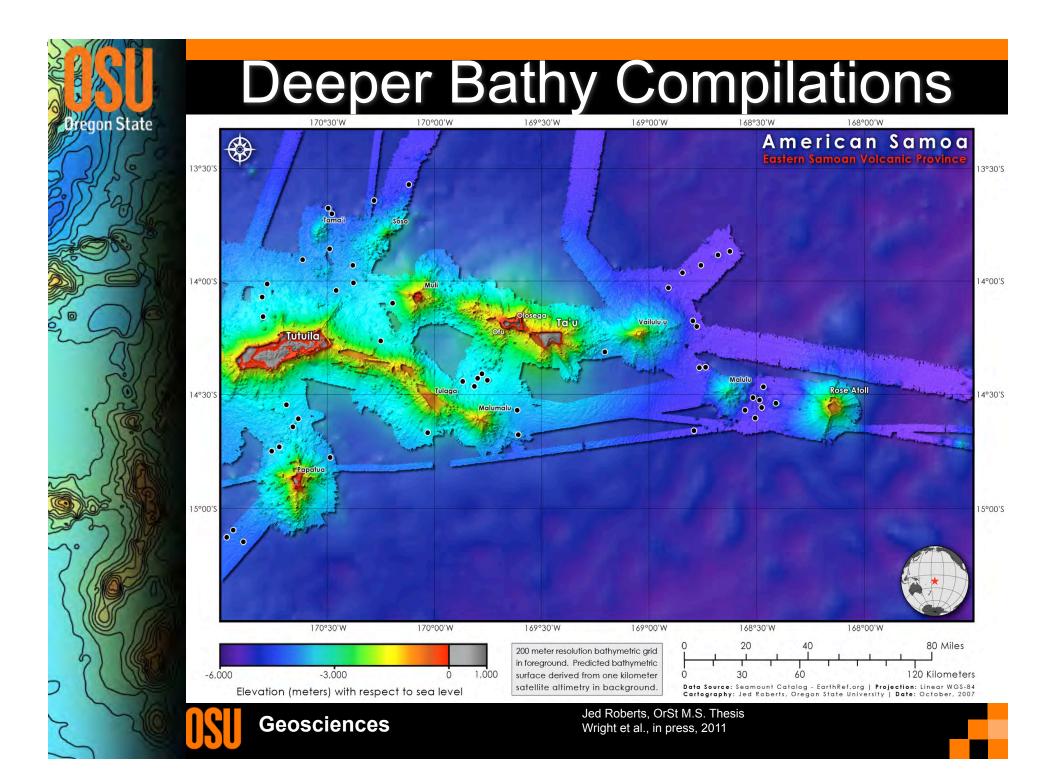




The World Ocean Floor & "Deepsea Dawn" at Sea



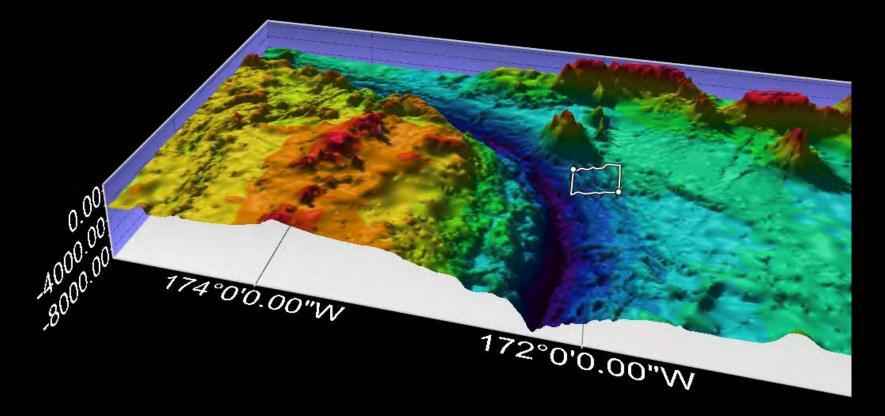




September 29, 2009

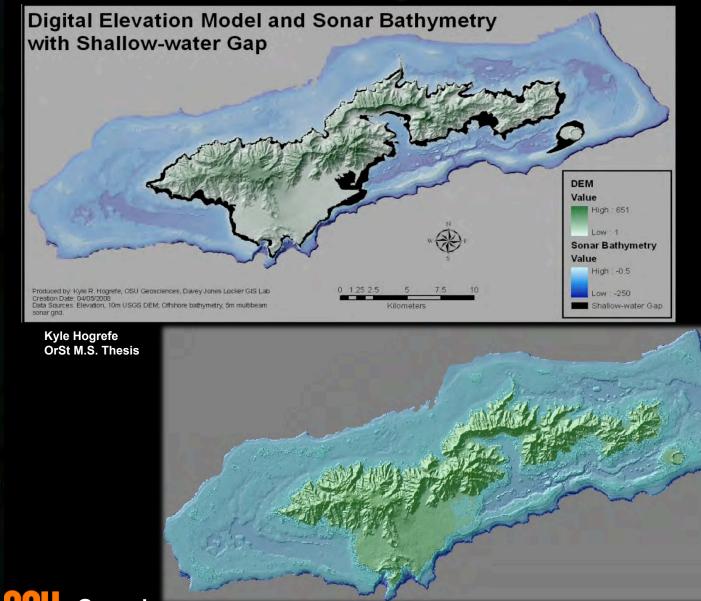
6:48 a.m. local time, M8.1

9 deaths in Tonga, 149 in Samoa, 39 in American Samoa Deadliest in history, \$150 million damage



Sandwell & Smith Estimated Bathymetry, v. 12.1, ve = 6

Shallow Bathy Compilations



Geosciences

egon State

Hogrefe, Wright, & Hochberg, Marine Geodesy, 2008

Fine-Scale Mapping & Sampling











"Ocean Informatics"

How the Earth works... (process) How the Earth should look... (design) How we should look AT the Earth... (data) Methods, tools of computational sciences, information technology

Interactions of people, social impact of IT

Geosciences



International Coastal Atlas Network (ICAN)

icoastalatlas.net

Regionally, globally integrate and interoperate among locally-maintained atlases ...

Inform regional decision- and policy-making across several themes

- Climate change coastal vulnerability
- Coastal governance (boundaries, protected areas, etc.)
- Coastal hazards
- Population pressures
- Marine spatial planning
- Resource availability
- and more...



Geosciences



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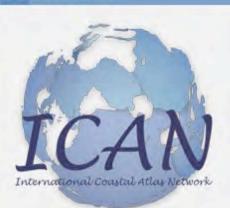
Traffic Reports

Estuaries

Oregon Coastal Zone

E - Home

E G Maps



Welcome to Oregon's Coastal Atlas

We hope you enjoy your visit to our website! The Oregon Coastal Atlas is a multi-group project that has the ambitious goal of being a useful resource for the various audiences that make up the management constituency of the Oregon Coastal Zone. The project is a depot for traditional and digital information which can be used to inform decision-making relating to the Oregon Coastal Zone. We provide background information for different coastal systems, access to interactive mapping, online geospatial analysis tools, and direct download access to various planning and natural resource data sets relating to coastal zone management.

Maps & Tools

Maps



The Coastal Atlas includes an Internet Map Server which can be used by visitors to view a variety of standard, preformatted and commonly requested base and overlay data served in the Atlas archives. Those

who do not have access to a desktop GIS may use this tool to create simple personalized maps using data relevant to the coast. Maps can be given personalized titles and output to PDF format for use in printed reports, email, etc.

Tools

Learn



This section contains simple introductory information for a range of coastal geographic settings (Estuaries, Sandy Shores, Rocky Shores, Ocean Areas), coastal topics (Access, Hazards, History,

Processes) and Atlas related technologies (hardware descriptions, software listings, and metadata). Any inquiry into coastal settings or topics will provide both broad background materials as well as summaries and links to more specific data.

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A Seafloor Mapping, Marine & Coastal GIS Laboratory

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Treasure Planet

Comic of the Day





wave.oregonstate.edu/edu

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Welcome to COSEE-Pacific

Partnerships, a regional Center in the COSEE Network based at marine laboratories in Oregon. Washington, California, & Hawai'i. Our goal is to integrate research & education for community colleges & informal science education professionals & volunteers.



Community College Faculty Institute at HMSC

Recent Advances in Oceanography, July 19-23, 2010 at the Hatfield Marine Science Center in Newport, OR. Each day of the institute will include presentations by scientists on topics including ocean observing systems, ocean acidification, plastics in the ocean, phosphorus and eutrophication, and wave energy research.

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NEWS

Focus on...COSEE-Pacific Partnerships

Read about how COSEE-Pacific Partnerships is engaging scientists at marine laboratories in their programs for community college faculty and students and informal educators in the September 2010 ssue of the COSEE Network News. >

FOR COMMUNITY COLLEGES



Summer internships in marine research and education for community college students

Professional development for community college faculty

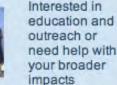
FOR INFORMAL EDUCATORS



Oregon Master Naturalist Volunteer Training Program

Professional development opportunities for informal education professionals

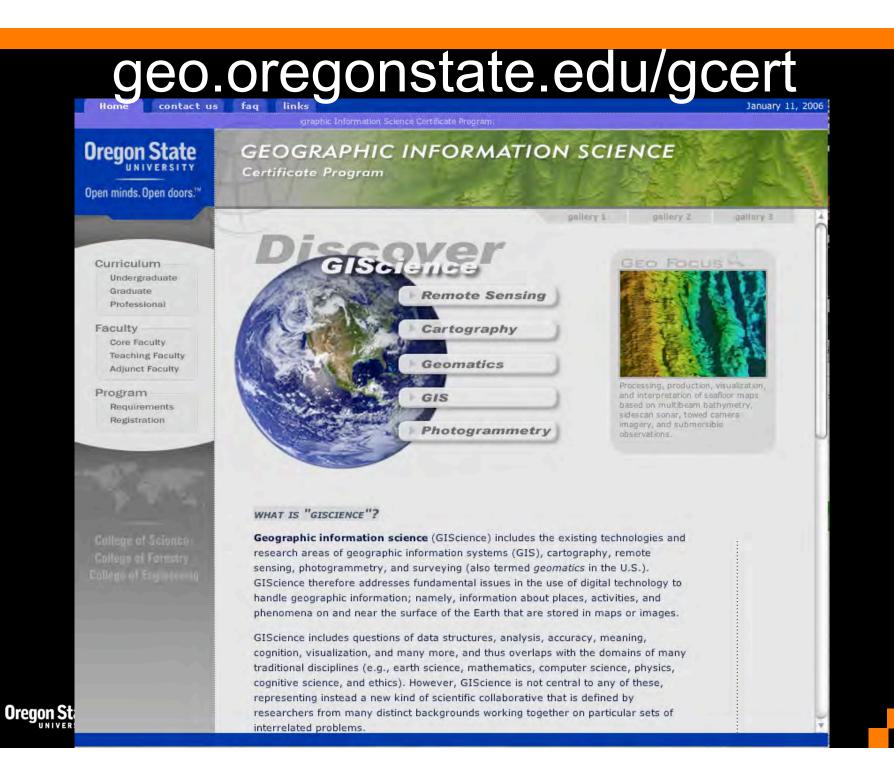
FOR SCIENTISTS



outreach or need help with your broader

proposal development? Find out how COSEE-Pacific Partnerships can assist you.





hmsc.oregonstate.edu/reu



Co-funded by the ASSURE program of the Department of Defense in partnership with the National Science Foundation REU Site program under Grant No. NSF OCE-1004947.

From Estuaries to the Deep Sea . . .

If you are considering graduate study or a professional career in the marine sciences, developing research skills through hands-on experience is one of the most valuable learning opportunities you can have. This summer, Oregon State University will offer 20 students from all over the U.S. the opportunity to work with faculty mentors on research projects that advance knowledge and understanding of marine, coastal and estuarine environments.



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INCREASING DIVERSITY

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The IDES (Increasing Diversity in Earth Sciences) Program is the first partnership of its kind in the state of Oregon, involving community colleges, a research university with major strengths in Earth Science research and education and an institutionalized commitment to enhancing diversity, along with state and federal agencies, and centers of informal education.

Preparing diverse students for success in the Earth Science Enterprise





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