

# MSROC - Outreach

July 12, 2017

[eroland@uw.edu](mailto:eroland@uw.edu)

# Initial Brainstorm – Active Source Seismic *Outreach Strategies*

*Provide outreach tools and a feedback mechanism to the community, including a forum for input on emerging directions in marine seismic studies*

*The MSROC will establish mechanisms for feedback from and to the community regarding existing marine seismic research capabilities and emerging directions (for example, “how-to” guides, science user reports on recent expeditions, web sites and online bulletins).*

- Interactive Web-infrastructure
- Blogs (in combination with training cruises)
- Community Outreach
- Apply to sail (other existing programs?)
- Unified/Ongoing outreach project (resource for Pis)
- *Your Input Here*

Still to do – check in with status from MLSOC

Follow-up questions of relevance –

*What resources will be available?*

# Initial Brainstorm – Active Source Seismic *Outreach Strategies*

*Provide outreach tools and a feedback mechanism to the community, including a forum for input on emerging directions in marine seismic studies*

*The MSROC will establish mechanisms for feedback from and to the community regarding existing marine seismic research capabilities and emerging directions (for example, “how-to” guides, science user reports on recent expeditions, web sites and online bulletins).*

- Solicit and keep track of community interest (forcast) – web based?  
Workshop based? White paper based? All of the above?
- Interest from other initiatives (IODP), Earthscope/OBS
- Solicit institutions with seismic assets they are willing share... is this outreach?

# Interactive/Web Infrastructure



Solicitation 17-549  
Full Proposal Target Date: **July 27, 2017**

Contacts:  
Jennifer Wade  
jwade (at) nsf.gov - (703) 292-4739  
Maurice Tivey  
mtivey (at) nsf.gov - (703) 292-7710

## Research

2015 GeoPRISMS review  
Science Plan  
Awards

## Broader Impacts

Enhance the Broader Impacts of your GeoPRISMS Proposal

The GeoPRISMS Office, along with the GeoPRISMS Education Office, would like to offer suggestions to proposers responding to this solicitation to achieve your broader impacts. Here are a number of strategies:

- Plan to submit your GeoPRISMS data to the data portal in a timely manner to efficiently disseminate your data to the public and download publicly available data from the data portal.
- Include the development of mini-lessons in your proposal to share with students to your research. The GeoPRISMS Office can help you develop these resources. Examples include:
  - Participate in the GeoPRISMS Student and Community Outreach Program
  - Attend GeoPRISMS workshops, especially ones focused on education and outreach
  - Apply for the GeoPRISMS Student Prize at AGU.
  - Stay informed through the GeoPRISMS listserv. [Sign up here.](#)

Home / Public

## Public

Earth's continental crust bears the scars of over 4 billion years of geologic history. The North American continent provides one of the most complete records of continental growth, modification, and breakup. EarthScope uses North America as a natural laboratory to gain fundamental insights into how Earth operates.

The complexity of geologic processes requires contributions from investigators across the earth sciences, working both as individuals and as members of multidisciplinary collaborative teams. Geologists, geophysicists, volcanologists, and seismologists all work together to look at earth sciences questions from different angles, hoping to further understand and explain the geologic processes that have shaped our planet over time.



## Public

- What are we studying?
- How are we studying it?
- Why does it matter?
- Humans of EarthScope
- Photos
- Visualization Challenge ▶

# Existing Marine Seismic Data Portals (what's missing here?)



The screenshot shows the MGDS (Marine Geoscience Data System) website. The top navigation bar includes links for Home, About, Digital Library, Tools, Data Portals, Global Bathymetry, Investigator Services, and a Search for Data button. Below the navigation bar are three main icons: a circular arrow with a document (Contribute), a magnifying glass (Find Data), and a wrench and hammer (Tools & Services). The Contribute section includes the text: "Contribute sensor-based data files for inclusion in our data system and get credit for your data. [Learn how >](#)". The Find Data section includes the text: "Search our catalog from 2,807 pages. [Search >](#)". The Tools & Services section includes the text: "Tools & Services".

**USGS**  
science for a changing world  
Pacific Coastal and Marine Science Center  
The National Archive of Marine Seismic Surveys

Home Search Web Services About

## NAMSS The National Archive of Marine Seismic Surveys

[Click To Search Map](#)

The National Archive of Marine Seismic Surveys (NAMSS) is a marine seismic reflection data archive consisting of data acquired by or contributed to U.S. Department of the Interior agencies. The USGS is committed to preserving these data on behalf of the academic community and the nation. Data are provided with free and open access. For more information regarding NAMSS, see the [about](#) page.

**Please Note**

Most data are provided in SEG-Y format, (Barry, K. M., Cavers, D. A. and Kneale, C. W., 1975, Report on recommended standards for digital tape formats: GEOPHYSICS, 40, no. 02, 344-352, a copy of which can be found at: <http://seg.org/News-Resources/Research-and-Data/Technical-Standards>.) Specialized software is required to view SEG-Y data. A list of free software that can be used to visualize, analyze, and interpret 2D and 3D SEG-Y data can be found [here](#). Data in the archive have associated metadata: at a minimum shotpoint

**DOI:** 10.5066/F7930R7P  
**FGDC Metadata:** [Download](#) | [View](#)  
NAMSS currently holds:  
**150 3D seismic surveys** covering 121,028 square kilometers.  
**548 2D seismic surveys** with 32,399 tracklines covering 2,282,495 kilometers.  
NAMSS is continuously updated as new surveys become available.

**Web Services**  
Web Map Service (WMS): [URL](#) | [More Information](#)

# Cruise Blogging

COAST: Cascadia Open-Access Seismic Transects

Classic Flipcard Magazine Mosaic **Sidebar** Snapshot Timeslide

Prologue

Seismic Data Processin...

Waking up to data


Introduction

\*Just What Goes On On...

COAST science: Why ar...

The COAST project: wel...

The COAST project: welcome!



The science team an hour before sailing, July 12, 2012. Left to right: Mike Martello (Martello Inc.), Jay Johnstone (LDEO), Graham Kent (Univ. of Nevada), Danielle Surny (USGS-Pasadena), Janine Buehler (Scripps), Shahr Barak (Stanford Univ.), Brady Finchum (Univ. of Nevada), Annie Kell (Univ. of Nevada), Jackie Caplan-Auerbach (Western Washington Univ.), Will Fortin (Univ. of Wyoming), Marie Salmi (Univ. of Washington), Kate

Dynamic Views theme. Powered by Blogger.

<http://cascadiaseismic.blogspot.com/>  
<http://blogs.oregonstate.edu/pictures/>

Oregon State University

Search

## PICTURES

Pisagua/Iquique Crustal Tomography to Understand the Region of the Earthquake Source

Home Sample Page

### Who are we?

Posted on December 5, 2016 by trehua | 1 Reply

Here is a belated introduction to the science party for MGL1610. We have each contributed to the various entries throughout this journey. Although there are only a few days left in the PICTURES expedition, better late than never...

Anne Tréhu (chief scientist, PI) – Oregon State University (go Beavers!) geophysics professor, our fearless PICTURES leader.

Emilio Vera (co-chief) – Universidad de Chile professor, who is often found enjoying the breeze on back deck and always eager to talk about the exploratory processing he is working on.

Michael Riedel (co-chief) – The "German-Canadian" research scientist from GEOMAR in Kiel is somehow always making me laugh despite the long hours of work and rarely getting to see the light of day.

Kathy Davenport (geodesy) – A native of Tennessee who spent only research at Oregon State from Virginia Tech, she

Search

Go

Click the links below to read about the PICTURES science objectives

English  
German  
Spanish

PICTURES is funded by a grant from the U.S. National Science

# Community Outreach

- Individualized, project-centric community interaction
  - Lectures in community centers & schools
  - Accessible Project Websites
  - Interaction with local media
- What's the MSROC's roll in facilitating this?

# Apply To Sail – other existing programs



The screenshot shows the UNOLS Cruise Opportunity Program webpage. At the top, there is a navigation bar with the UNOLS logo (University National Oceanographic Laboratory System) and links for Home, Contact, Email Signup, and Search. Below this is a secondary navigation bar with links for About, Ships/Facilities, Schedules, Committees, Meetings, Forms & Documents, and Jobs & Early Career. The main heading is "UNOLS CRUISE OPPORTUNITY PROGRAM". A breadcrumb trail reads "HOME / JOBS & EARLY CAREER / UNOLS CRUISE OPPORTUNITY PROGRAM". A large image of a ship at sea is featured, with a caption "photo by Uriel Zajackovsky, UCSD". To the right of the image is a "FEATURED INFORMATION" section stating: "The UNOLS Cruise Opportunity Program matches volunteer graduate students with research cruises aboard UNOLS vessels." Below the image is a "Jobs & Early Career" sidebar with a link to "Early Career Programs". The main content area contains a "Welcome to the UNOLS Cruise Opportunity Program Webpage!" section, followed by text explaining the program's goal: "The primary goal of the UNOLS Cruise Opportunity Program is to provide graduate students currently completing a degree in a field of oceanographic research with the opportunity to participate in a research cruise. The participant will be a member of the scientific party and be..."

<https://www.unols.org/unols-cruise-opportunity-program>

Maybe most important for International Participants



# Open Discussion and Plan of Attack...

+ Does outreach mean connecting with the non-scientific community? Do we need to reach-out to the science committee as well?

+ What resources should/can we target?

+ What is the roll of the MSROC?

.....

# Unified/Ongoing Outreach Program

- What could this look like? One Example -



## NEW! GIRLS IN ICY FJORDS

August 11 - 22, 2017

By kayak and foot, you and 7 other girls will explore Bear Glacier and its surrounding marine environment near Seward, Alaska. Led by professional scientists, artists, and



## NEW! GIRLS ON ICE SWITZERLAND

15.-25. Juli, 2017

The first Girls on Ice expedition in Switzerland will happen in summer 2017. We will explore the Findelen glacier in the Swiss alps. For this expedition you have to speak German

Collaboration with marine biological/ecological restoration projects?

Marine Seismic – Focused, Ongoing K-12 Education Program?

Needs a Champion?