

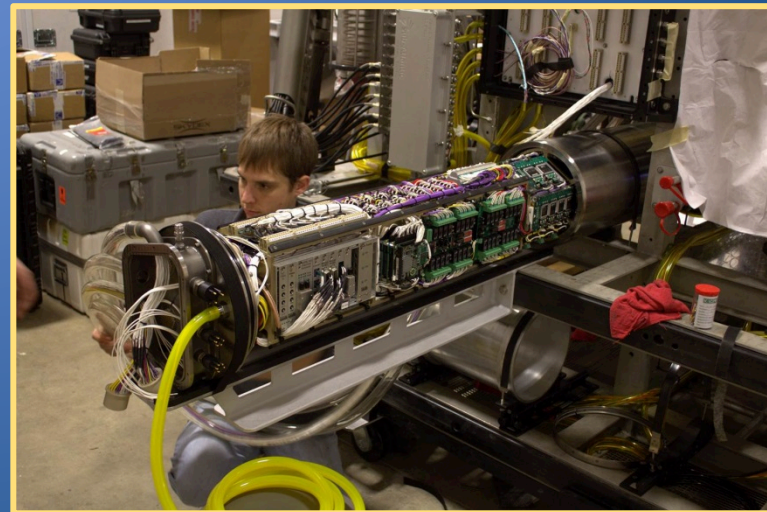


GLOBAL FOUNDATION
FOR OCEAN EXPLORATION

Dave Lovalvo, President
Melissa Ryan, Vice President

Our Goal

Support global ocean exploration through
Engineering Excellence
Workforce Development and Training



4-Year Cooperative Agreement with OAR/OER

Unified Deep Submergence Engineering Program

- ROV equipment upgrades and technology refresh
- Development of sampling and sensor capabilities



4-Year Cooperative Agreement with OAR/OER

- At-sea and shoreside workforce training program
- Cross training



1-Year Cooperative Agreement with OAR/OER

Phase 1 - Mobile Satellite Communication System

- New 2.4m VSAT antenna
- System Delivery: November 2015



1-Year Cooperative Agreement with OAR/OER

Phase 2 - Advancing Telepresence-Enabled Ocean Exploration

- Test Platform: *NOAA Ship Okeanos Explorer*
- New shipboard science network, shoreside infrastructure, and data management system
- Preparing for transition to flyaway capability



1-Year Grant from CIOERT

Flyaway Ocean Exploration Program

Develop phased approach and cost analysis to:

- Develop flyaway ROV to support OER exploration mission
- Assess potential use of vessels from NOAA, UNOLS, USN and international oceanographic fleets



NOAA Preserve America

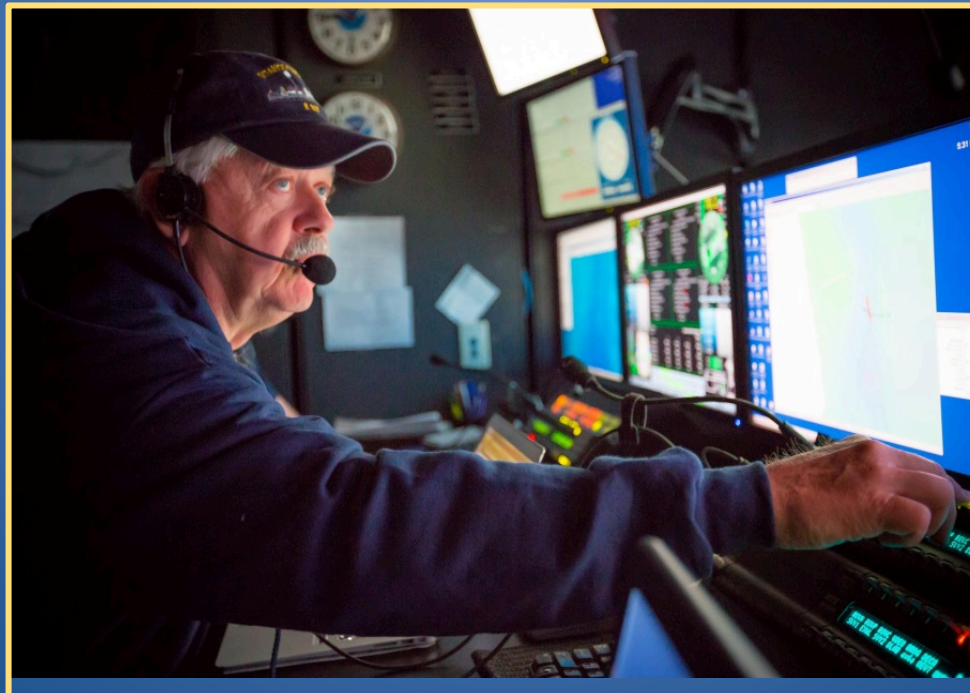
Internal Funding Program

- Short film following OER's exploration of National Marine Sanctuaries and National Marine Monuments off Hawaii
- Cultural context provided by Hawaiian partners
- Scientific context provided by NOAA
- Used as an educational tool to increase public awareness of National Marine Sanctuaries
- Distributed through screening and in exhibits at partner sites and via public online venues



Baruch College New Exploration Command Center

- MOU between GFOE and the CUNY system
- Designed for use with OER explorations, telepresence-enabled research, filmmaking and education programs



Harbor Branch Oceanographic Institute

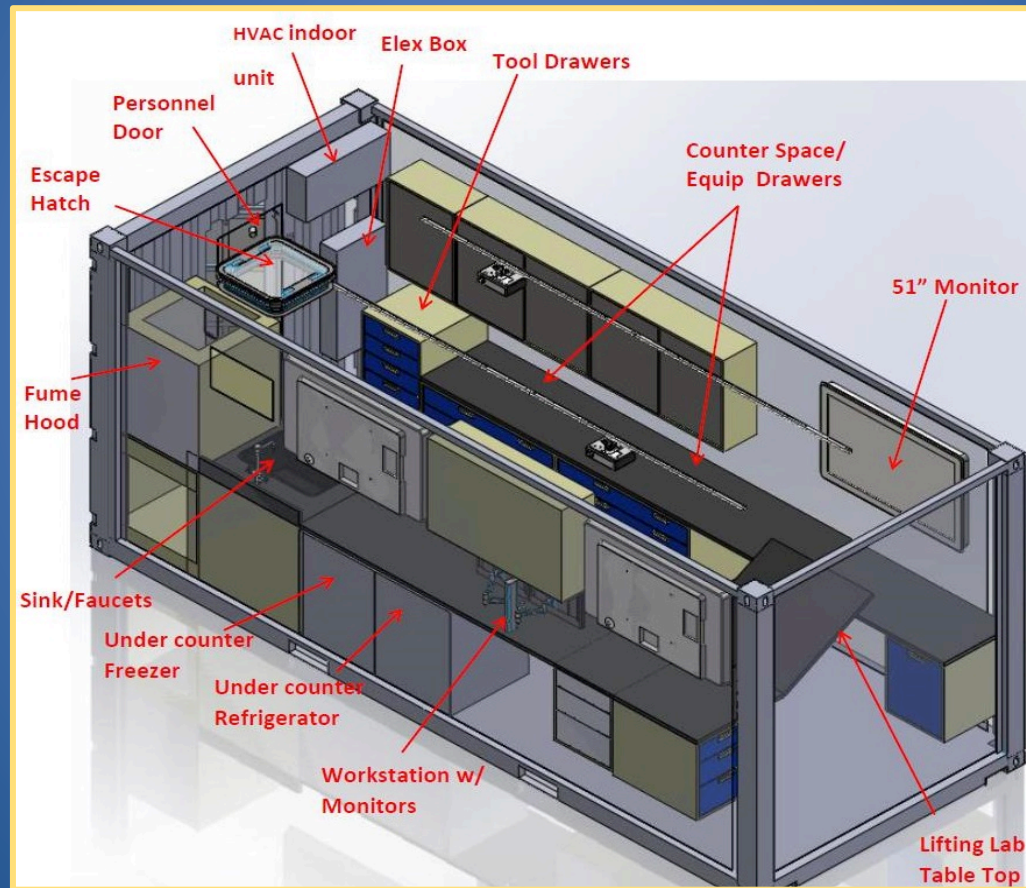
Technology Refresh of ROV System

- Tether Management System (TMS)
- Launch and Recovery System (LARS)
- Develop sampling capability
- Develop Workforce to operate



Northeastern University and HBOI/CIOERT

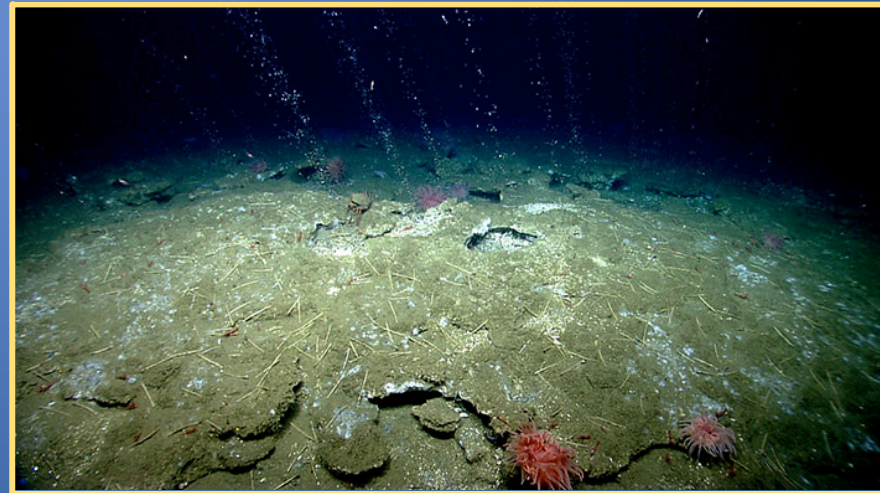
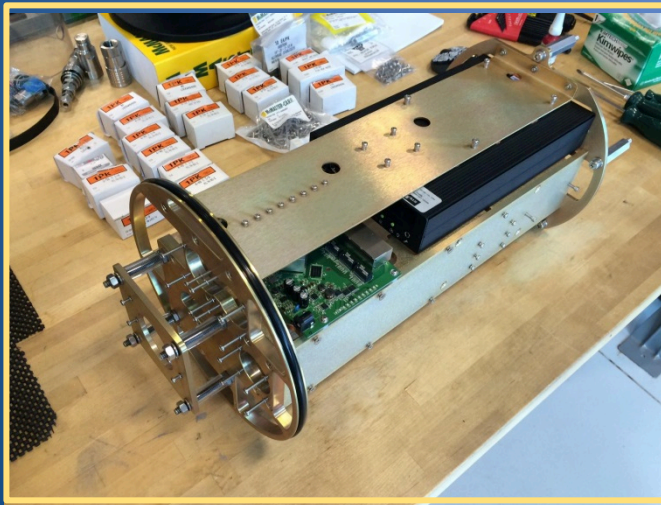
Telepresence-Enabled Science Lab



University of New Hampshire

Methane Sensor

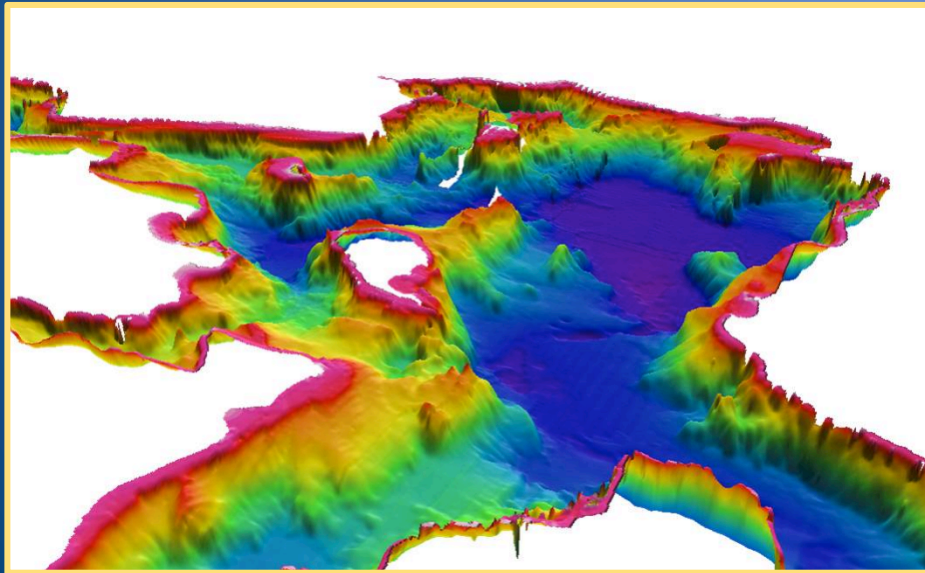
NSF-funded sensor development
Partnership between UNH, GFOE, and OER



WHOI, NSF, OER, MBARI, YNP, YA, USGS,
MSU,others

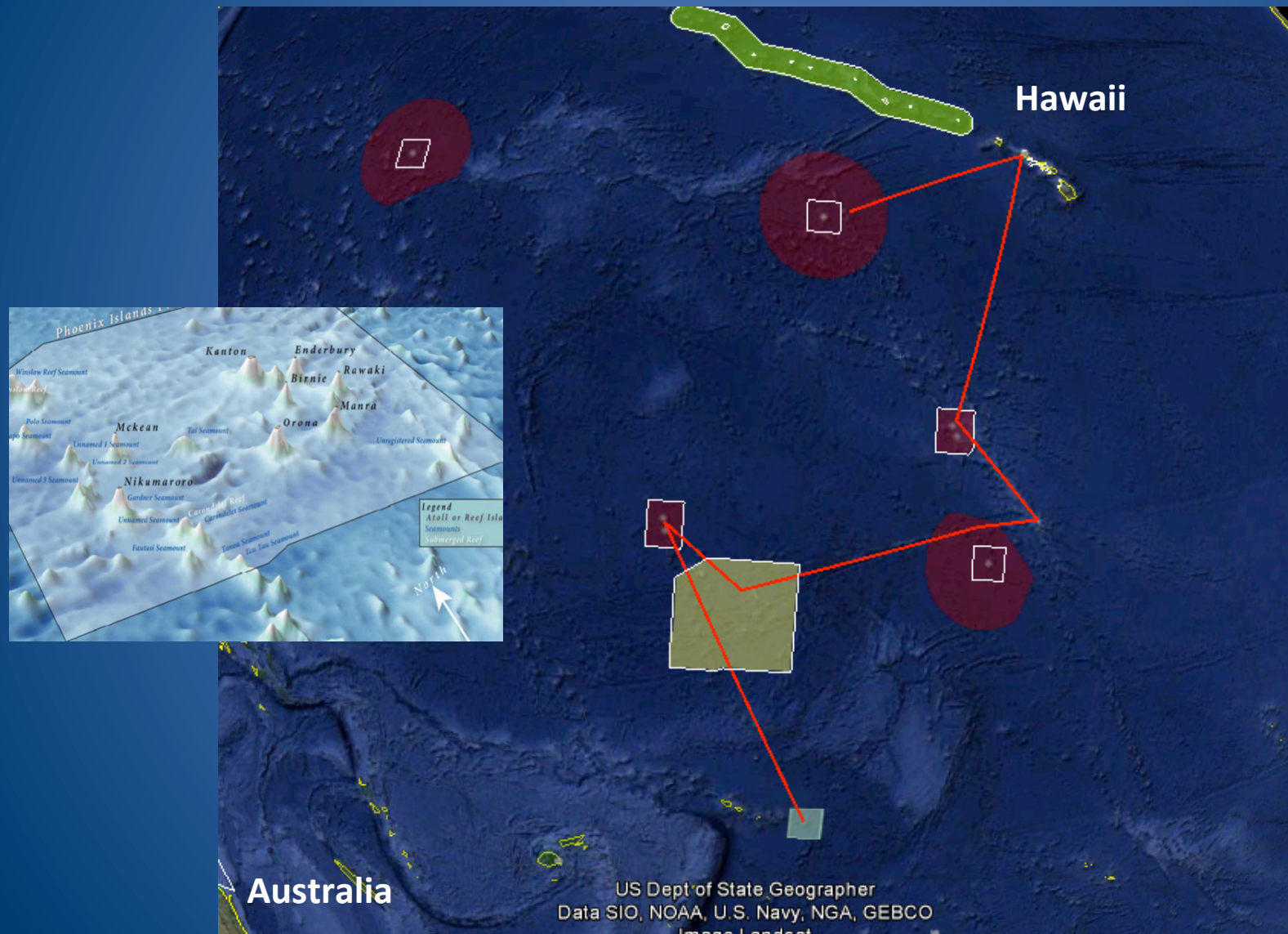
Yellowstone Lake

- NSF grant to support seismic, biological and geological research in Yellowstone (*T. aquaticus*)



Leveraging OER Resources

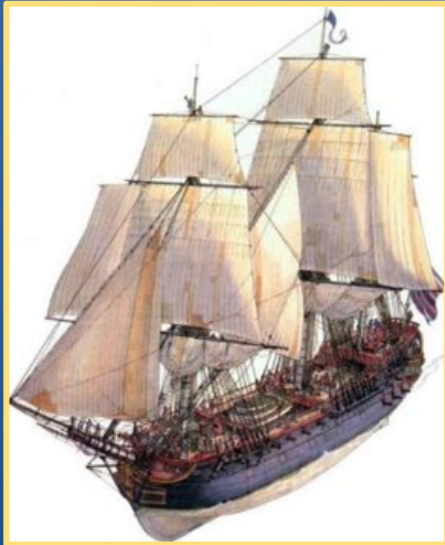
Phoenix Islands Protected Area



Ocean Technology Foundation, USN, FRN

Search for the Bonhomme Richard

- U.S. warship commanded by John Paul Jones
- Sank off NE England during Revolutionary War (1779)
- GFOE providing project management, technical expertise, and expedition planning



The GFOE provides work and training opportunities in the fields of ocean exploration and research.

We inspire the next generation with meaningful opportunities that encourage enduring global contributions.

- Email to OER from 53 y/o mom of 3 adult children
- So, I have VERY much enjoyed watching everyday! That said, there is something that I have enjoyed and will miss at LEAST as much as the science aspect, and maybe even more. That would be the EXTRAORDINARY people that were involved with this voyage. They are such an amazing group of people, who CLEARLY not only like each other, but RESPECT each other, as colleagues and as human beings! It was SO refreshing! But what was even more impressive was how EVERYONE respected, spoke to and treated everyone involved. The "science guys" CLEARLY respected AND APPRECIATED the pilots and the film crews for their abilities and talents. How helpful everyone was to the people in their own group but in the other groups as well. It was just so clear that EVERYONE UNDERSTOOD that EACH AND EVERY "GROUP" was ESSENTIAL to the other groups. That NONE of them could function wholly or properly without all the parts working properly. There was NO one-upping, or show-boating. There was one goal, one mind, and a wonderful outcome and experience for those of us watching! And hopefully for those there that were involved, whether on board the ship or on land. But even then, it SOMEHOW got EVEN BETTER! The sense of humor that everyone had, especially the pilots, was TOOO FUNNY! There was certainly more than once that I had a huge laugh! Over all, it's not just that I'm sad that the "mission" is over, but I really feel like I somehow made new "friends", even though they're clueless about me, and I am going to miss them ALL SO MUCH!!!