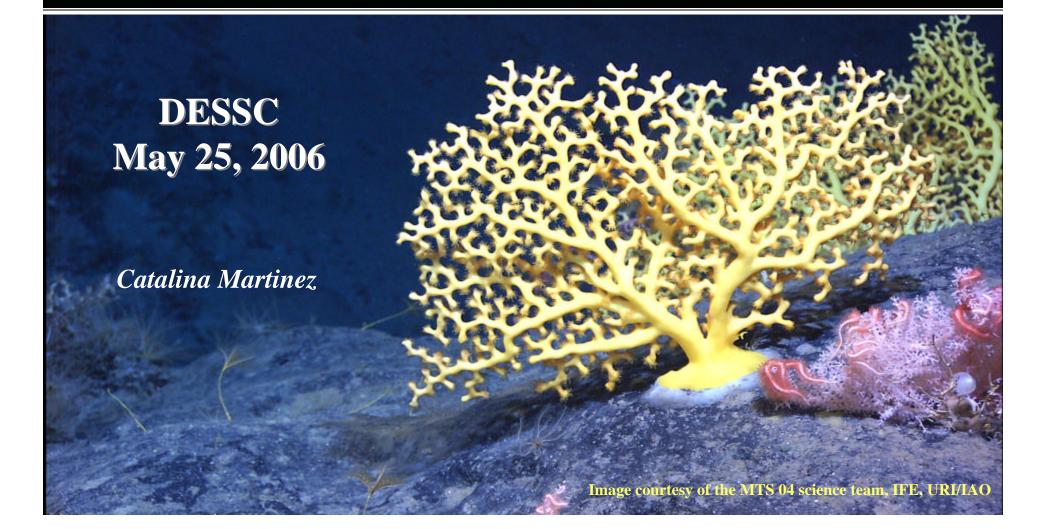


NOAA OE funded efforts associated with WHOI Deep Submergence Facility (DSF) assets





NOAA OE Education and Outreach

•Reaching out in new ways to stakeholders to improve ocean literacy

•10% of program funds support a diverse program

•Efforts focused around exciting expeditions

Work with traditional and nontraditional programs
Striving for equity in access



NOAA Ocean Explorer Web Site

oceanexplorer.noaa.gov

Web based alternatives to deliver information and products

Live Expedition Coverage

Daily logs, videos, images

'Ask the Scientist' live link

Telepresence

Podcasts

EXPLORATIONS GALLERY TECHNOLOGY HISTORY LIBRARY EDUCATION

Explorations | GalAPAGoS: Where Ridge Meets Hotspot

December 3, 2005 - January 10, 2006

Nd-Ocean Ridge

GALLERY TECHNOLOGY HISTORY LIBRARY EDUCATION

e

Explorations | Expedition to the Deep Slope | Logs

May 20, 2006

Jilian Petersen Graduate Student Max Planck Institute for Marine

27922.39 N 090°34.53 W

Specializing in Bacteria

Microbiology, Bremen, Germany

the afternoon when the deen-sea submersible Alvin is brought back on deck. We have to get our samples off the sub and into cold seawater quickly - these animals have been pulled up from the cool 4 °C of the ocean floor.

and will perish in the heat on deck, 1

chemosynthetic mussels that inhabit

cold seeps in this area. In fact, Bathymodolus can be found at vents

a great system for studying

biogeography

am always excited when I look into the

collection boxes and see that the Alvin has brought back Bathymodiolus, the

and seeps worktwide, which makes this

GalAPAGoS: Where Ridge Meets Hotspot

In December 2005 and January 2006, an interdisciplinary team of 38

scientists will venture to a deep seasite north of the Galapagos Islands to conduct research on the Galapagos Spreading Center, which is part of the global mid-ocean ridge. The global midocean ridge is a giant volcario seam



Ask an Explorer

Diagram of the eastern equatorial Pacific showing the location of the Galagagos Spreading Center and Salapagos Islands. Deeper regions >3500 m deep) are blue on this map. The Galapagos Spreading Center is an east-west ridge that rises above the surrounding seafloor, and is most shallow (depth ~1600 m) north of the Galapapos Islands, Chrk Image for and image credit.

such is islands.





idge is directly above. ceanic hotspots, rth's mantle and erupt



pagos Acoustical, 400 km-long section of s mantle plume that has



ere our surveys will al vents and other fine-





Ask an Explorer

















































This is the biggest & brooks/ specimen ever collected. Upon dose inspection, you may be able to see stains from the oil that is sometime found in the sediment around seeps. Click Image for larger view and im

The hands-on work begins some time in

oreald.











Bethymodialus brooksr, et Mississippi Canyon 853 during ALVIN dive 4178



Scientists discovered several communities of football-size mussels.





































NOAA Ocean Explorer Web Site

oceanexplorer.noaa.gov

Web based alternatives to deliver information and products

Virtual Participation

- Virtual Workshops
- Online courses
- Ocean AGE Careers
- List Serve





NOAA Ocean Explorer Web Site

oceanexplorer.noaa.gov

Web based alternatives to deliver information and products

Expedition Education Module (EEM)

- Additional resources for educators
- National Curriculum and CD ROMs
- Lesson Plans







Engage Scientists in Outreach and Education

Wide range of effort and resources

- •Professional Development Institutes
- •Teachers at Sea
- •Classroom visits







Engage Scientists in Outreach and Education

Wide range of effort and resources

- Satellite phone calls from sea
- Shipboard tours
- Media events





Photo by Z. Hoyt GOA02



FY 06 Efforts

GalAPAGoS Expedition (Galapagos Acoustical, Plumes, and Geobiological Surveys)

201

of and Gas

M korratal a le g.e

PI: Rachel Haymon, Univ of CA

Dates: December 3, 2005 – January 10, 2006

Expedition: R/V *Thomas G. Thompson* with DSL-120 and *Medea*

OE Education and Outreach Efforts: Signature Web coverage with Podcasts, 3 Lesson Plans, satellite phone press conference, several media articles

Expedition to the Deep Slope

PI: Chuck Fisher, Penn State

Dates: May 7 – June 2, 2006

Expedition: R/V Atlantis with the DSV Alvin

OE Education and Outreach efforts: Signature Web coverage, EEM with 8 Lesson Plans, satellite phone media event planned for end of cruise





FY 06 Efforts

Ancient Deep Water Shipwrecks in Greece

<u>PI:</u> Brendan Foley, WHOI in collaboration with HCMR (Greece)

Dates: June 21 – July 5, 2006

Expedition: Greek R/V Aegaeo using AUV SeaBED

<u>OE Education and Outreach Efforts:</u> Signature Web coverage, satellite press conference and press release scheduled

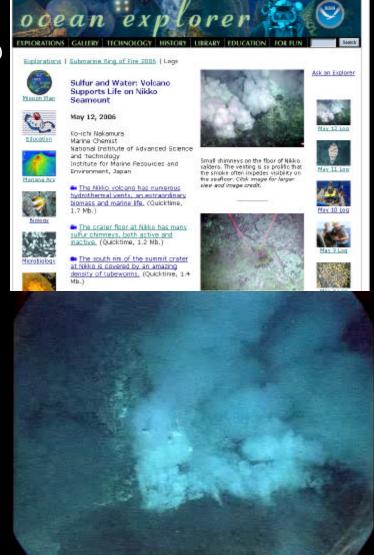
Ring of Fire

PI: Bob Embley, NOAA VENTS/PMEL

Dates: April 18 - May 13, 2006

Expedition: R/V *Melville* with *Jason/Medea*

<u>OE Education and Outreach efforts:</u> Signature Web coverage with Podcasts, EEM with 8 Lesson Plans, news release planned May 25 with associated video



Video courtesy of Submarine Ring of Fire 2006 Exploration, NOAA Vents Program



Carl approaches with some caution the prospect of a career in ocean exploration.