



NOAA and the National Deep Submergence Facility

DEep Submergence Science Committee Meeting NOAA 2007 Report Education & Outreach

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Office of Ocean Exploration

May 31, 2007
Woods Hole, MA

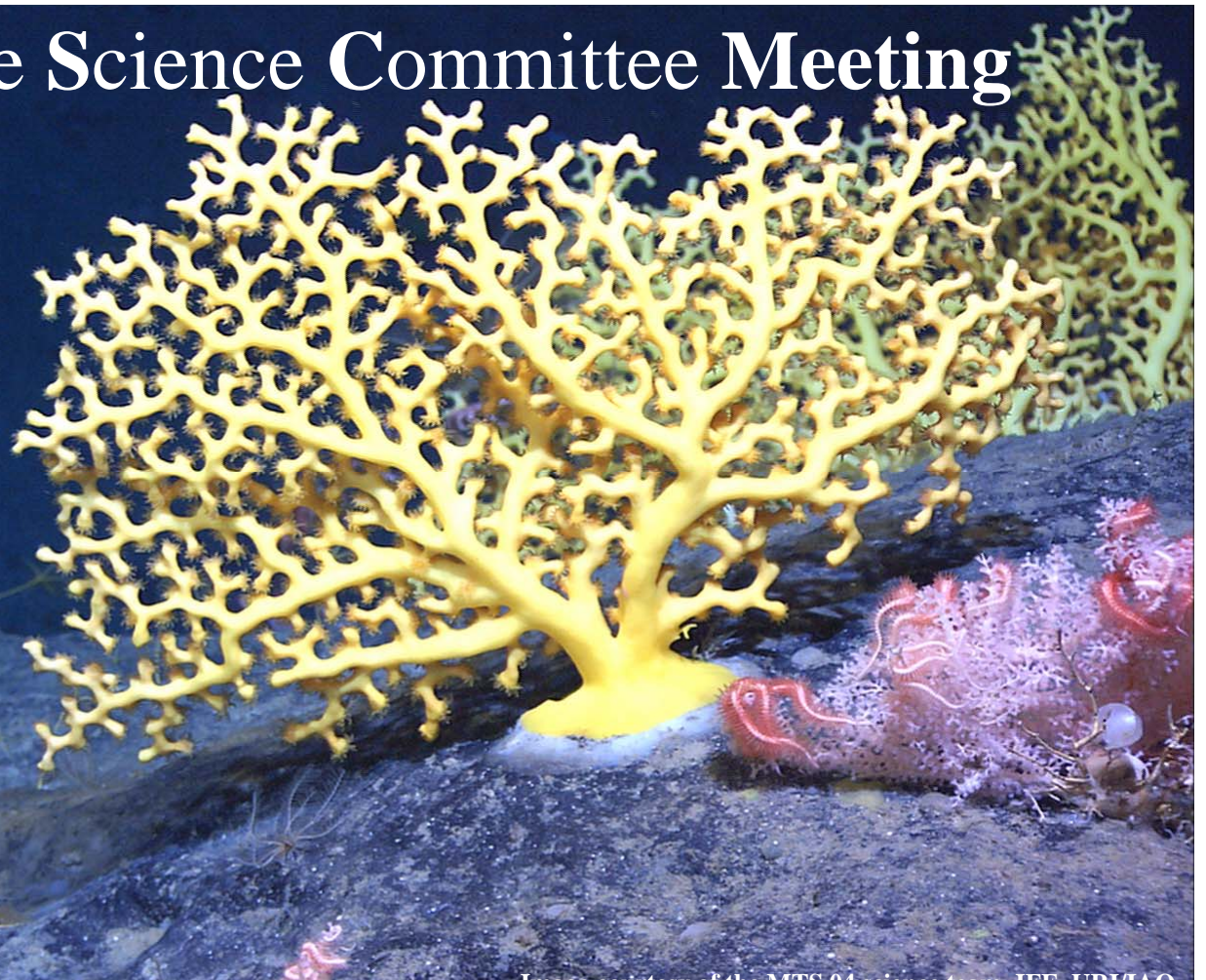


Image courtesy of the MFS Mission team. IFF IDV/LAO

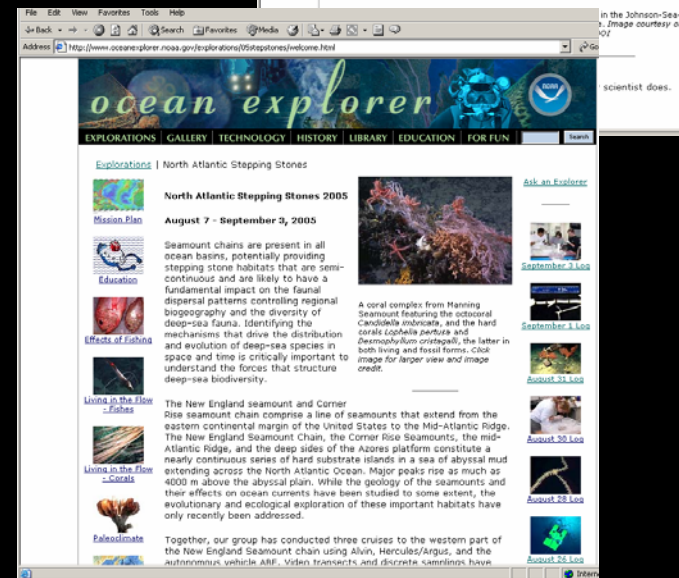
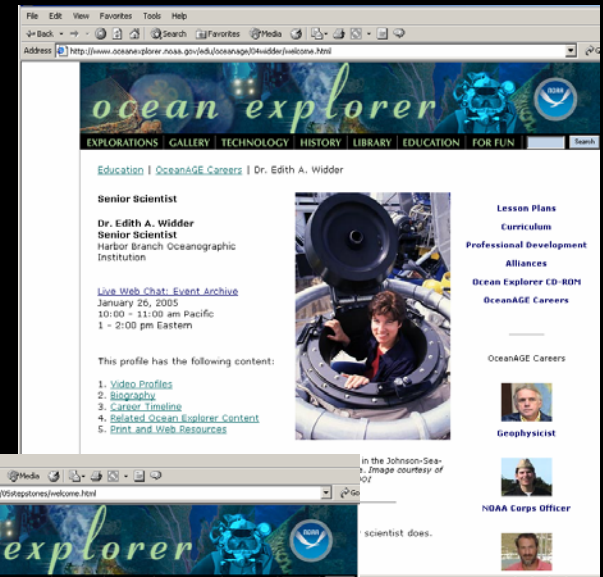
Presentation Objectives

- **Briefly describe OE's Education and Outreach Program**
- **Describe new potential application of telepresence technology to conduct scientific research, exploration, and outreach**

oceanexplorer.noaa.gov

Web based alternatives to deliver information and products

- Live expedition coverage
- Daily logs, video, images
- 'Ask the Scientist' live link
- National Curriculum
- Virtual Workshops
- Online courses
- List Serve
- Lesson Plans
- OceanAGE
- CD ROMs



Products

Accessible on Web site oceanexplorer.noaa.gov

Lesson Plans

The screenshot shows the 'ocean explorer' website with a navigation bar including EXPLORATIONS, GALLERY, TECHNOLOGY, HISTORY, LIBRARY, EDUCATION, and FOR FUN. The 'Education Lesson Plans' section is highlighted, featuring a sidebar with links to Mission Plan, Education, Mid-Ocean Ridges, Hotspots, and Explorers. The main content area describes the National Oceanic and Atmospheric Administration (NOAA) and its ocean exploration efforts, mentioning the GalAPAGOS: Where Ridge Meets Hotspot expedition.

This is a detailed lesson plan titled '2005 Galapagos Spreading Center: Where Did They Come From?'. It includes sections for Focus, Grade Level (5-12 Life Science), Focus Question, Learning Objectives, Materials, and Teaching Time. The lesson plan focuses on the biogeography of hydrothermal vent communities and the spreading center in the Galapagos Islands.

Curriculum and CD ROM's

This block shows the cover of the 'Learning Ocean Science Through Ocean Exploration' curriculum, which is a curriculum for Grades 6-12. It features images of ocean exploration activities, including a submersible and a hydrothermal vent. Below the curriculum cover is a CD-ROM labeled '2005 FIELD SEASON ocean explorer oceanexplorer.noaa.gov'.



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Wide range of effort and resources

- Teachers at sea
- Shipboard tours
- Professional Development
- Ship to shore connections
- Partnerships and collaborations

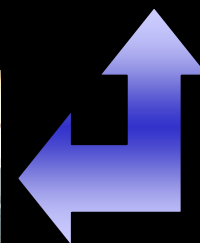


Photo by Z. Hoyt GQA02



NOAA Ship Okeanos Explorer



Artist Rendering.



Image courtesy of P. Oberlander, WHOI

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FUTURE

Telepresence Technology

Remote video feeds from the seafloor and ships at sea can be transmitted anywhere in the world in real time

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Application



Bert Fox, National Geographic

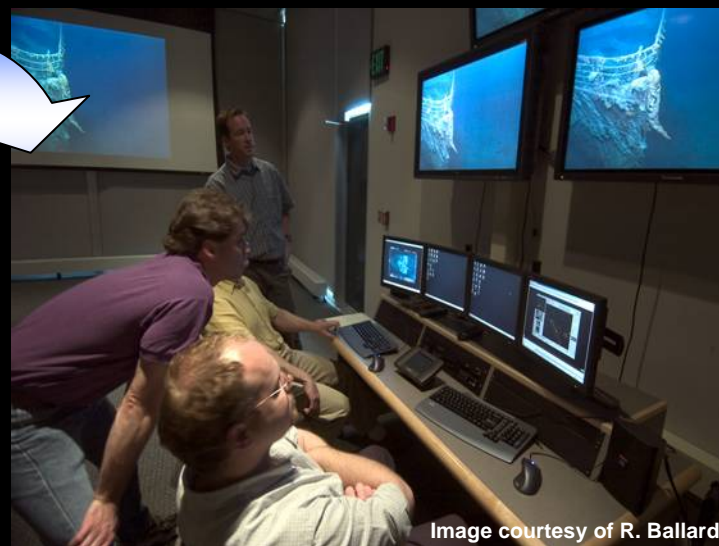


Image courtesy of R. Ballard



Image courtesy of R. Ballard



For more info visit <http://oceanexplorer.noaa.gov>

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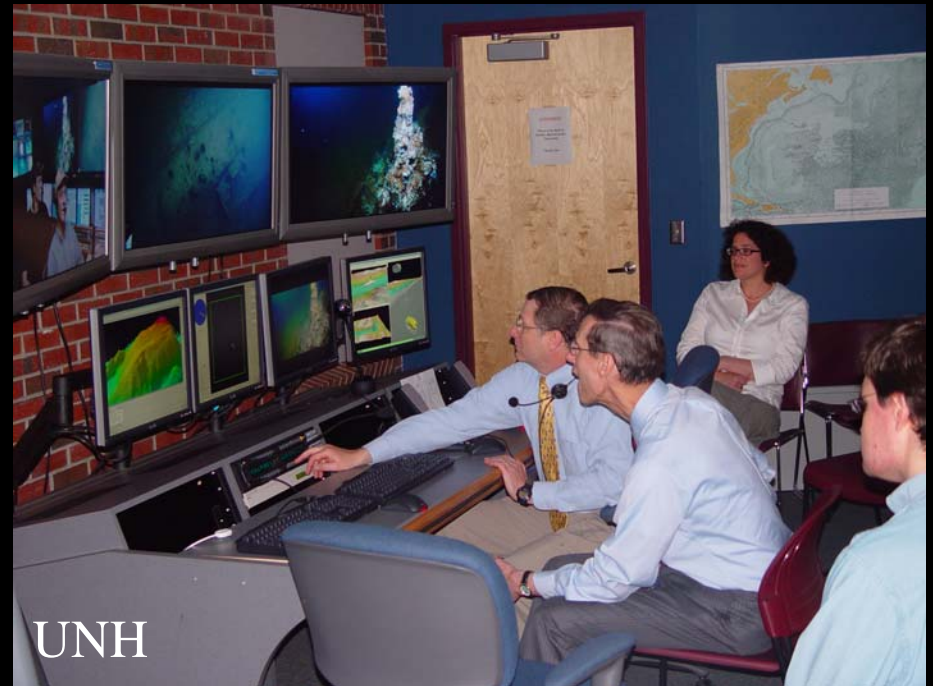


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PMEL



UNH



NOAA Silver Spring, MD



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Live streaming video on Internet I


explorations/06blacksea/logs/livevideo/welcome.html


Search 7 blocked Check AutoLink AutoFill Options

ch Web Search Web Mail My Yahoo! Answers

[Explorations](#) | [Aegean and Black Sea 2006](#) | [Logs](#)



[Mission Plan](#)



[Education](#)


[Explorers](#)

Live Video

There will be two survey phases in the international waters of the Sea of Crete as we work aboard the *R/V Endeavor*. During these phases exciting live and taped programs will be broadcast to audiences via Internet2, a very high bandwidth system that allows near-instantaneous video transmission. As available, you will be able to watch as the *Hercules ROV* explores the Aegean and Black Sea. Telepresence will also connect this ocean expedition in real time and in exciting ways to selected groups of teachers, students, Boys and Girls Clubs, and audiences at aquaria and museums across the nation.


[Live Video](#)



Video courtesy of IFE, URI GSO, and URI IAC

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