



DEep Submergence Science Committee Meeting NOAA 2008 Report

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Ocean Exploration and Research Budgets in FY2008



	2007	2008	2009
NURP	8.0	10.0	9.2
OE	14.8	15.1	18.6
Combined	22.8	25.1	27.8



NOAA NDSF and NDSF- Related Funding



	2008	2009
OER: Lophelia	\$ 0 K	\$ 500 K
OER: HROV	\$ 50K	\$ tbd
PMEL: NeMO	\$ 300K	\$ 200K



NOAA and Deep Submergence 2008



NDSF:

Pacific Marine Environmental Laboratory (PMEL):

Four Alvin dives on NeMO at Axial Volcano on the Juan de Fuca ridge.

- Re-sampled 18 different vents distributed around Axial Volcano for chemistry and microbiology.
- Recovered and re-deployed year-long time-series chemistry instruments used to understand both microbial ecology and the evolution of volcanic and hydrothermal systems.

Other:

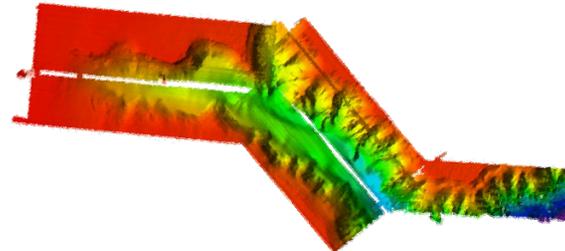
Ocean Exploration and Research (OER):

Lophelia Cruise:

- Gulf of Mexico joint-Minerals Management effort to explore new deepwater coral communities at both natural and man-made sites; and assess impact of oil and gas infrastructure on these ecosystems.
- 36 days on Nancy Foster, Sea Falcon DR AUV

Eagle Ray AUV (2000m) Mapping:

- Mississippi and Hudson Canyon habitat characterizations





NOAA and Deep Submergence 2009



NDSF

Pacific Marine Environmental Laboratory (PMEL):

- Three Alvin dives on NeMO at Axial Volcano on the Juan de Fuca ridge.

Ocean Exploration and Research (OER):

- Thirty (30) Jason days for Lophelia Gulf of Mexico joint-Minerals Management Cruise

Other (potential)

- PMEL/OER Western Pacific ROV time
- PMEL/OER Lau Basin volcanic eruption visit





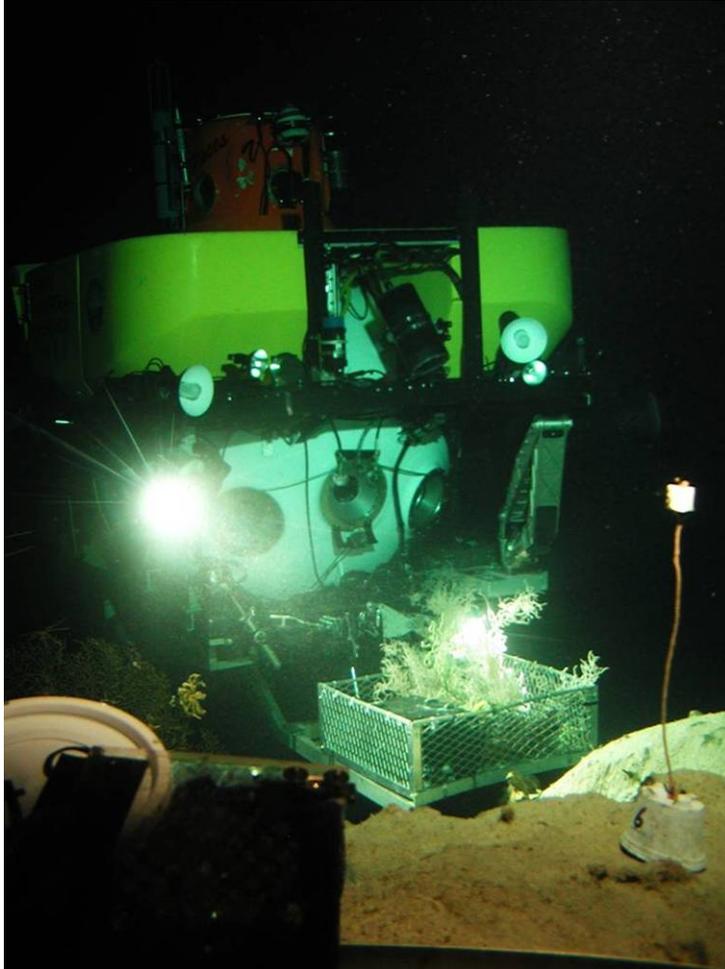
HURL activities for 2008-2009



- Short dive program in April 2008, port shaft of *KoK* shears during return transit
- Major refit for support ship R/V *KoK*, Aug-Dec 2008
- Dive program, Jan-March 2009, Main Hawaiian Islands
- Refit *Pisces IV*, April-Sept 2009 (*Pisces V* was refit in 2007)
- Dive program, Oct-Dec 2009, Main Islands, Northwestern HI islands, U.S. Line Islands(?)
- Collaboration with HMRG & OTG on multibeam RT-display system



HURL in 2010-2011



- 2010: Joint project with West Coast & Polar Regions NURP center for Aleutians, Southern Bering, Beaufort Sea, & Emperor/NWHI loop expedition – seeking additional partners
- 2011: Possible return to the SW Pacific – presently gauging interest



OER Headquarters Update



- OER Staffs are merged at HQ
- Planning for a Cooperative Institute for U.S. Eastern Continental Shelf Frontier Exploration, Research and Technology Development
- Okeanos is entering shakedown phase



Okeanos Explorer Update



- Ship Commissioned, Aug 13, 2008

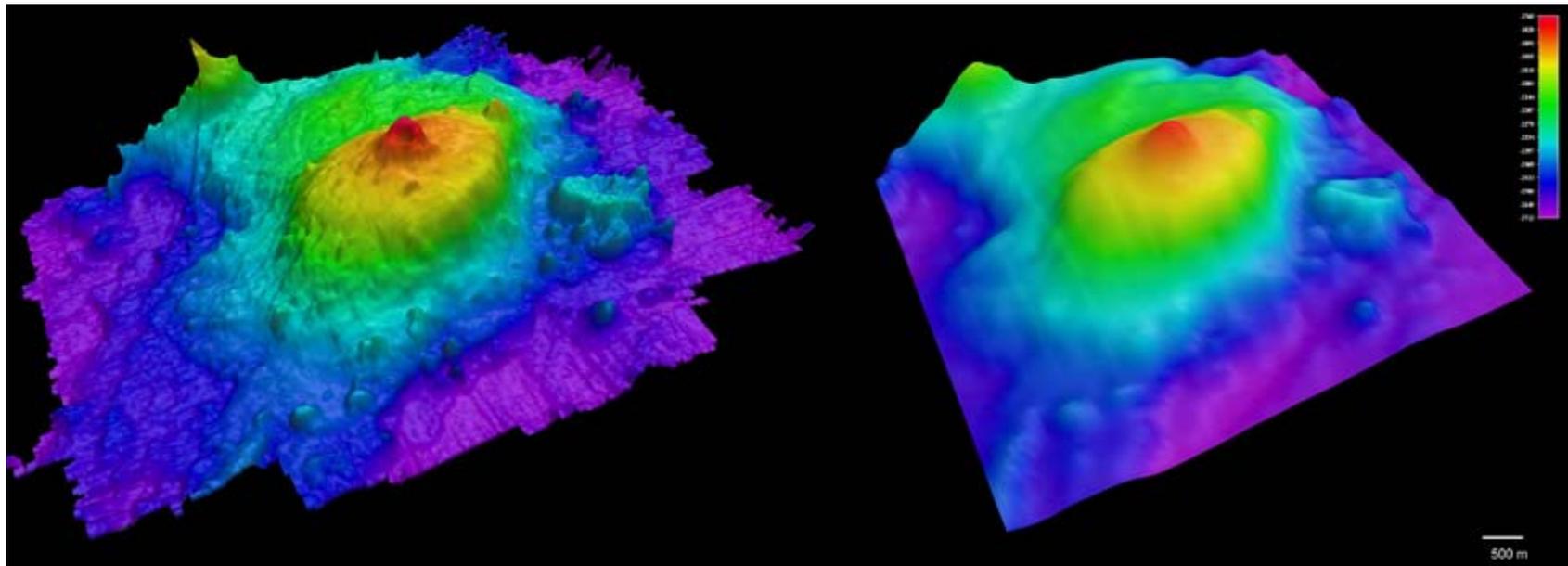




Okeanos Explorer Update



- Mapping System Acceptance, Testing and Shakedown Completed, Sep 8-25 2008





Okeanos Explorer Progress and Timelines

