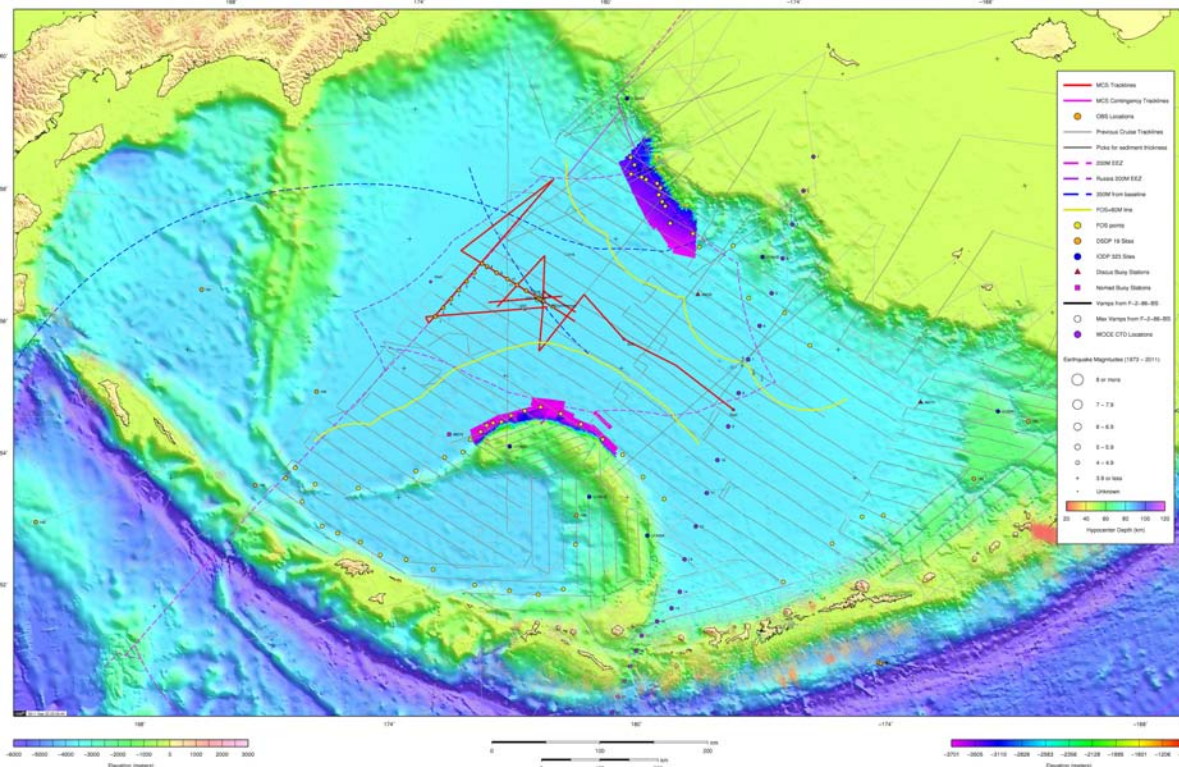
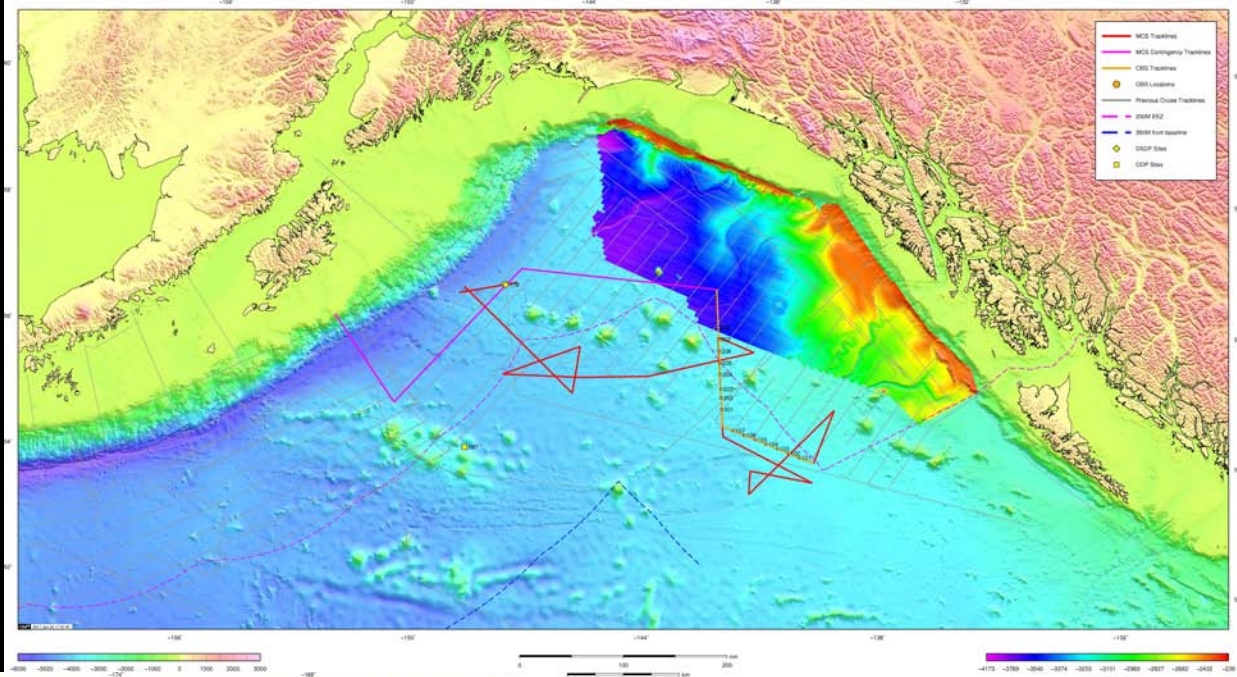


*U.S.*  
*Extended Continental Shelf*  
*Project*



## A large blue and white offshore supply vessel, the Marcus Clangreth, is shown sailing on the ocean. The ship has a white upper hull and a blue lower hull. It features a complex superstructure with various masts, antennas, and equipment. The name "MARCUS CLANGRETH" is visible on the side of the ship. The vessel is moving through the water, leaving a wake.

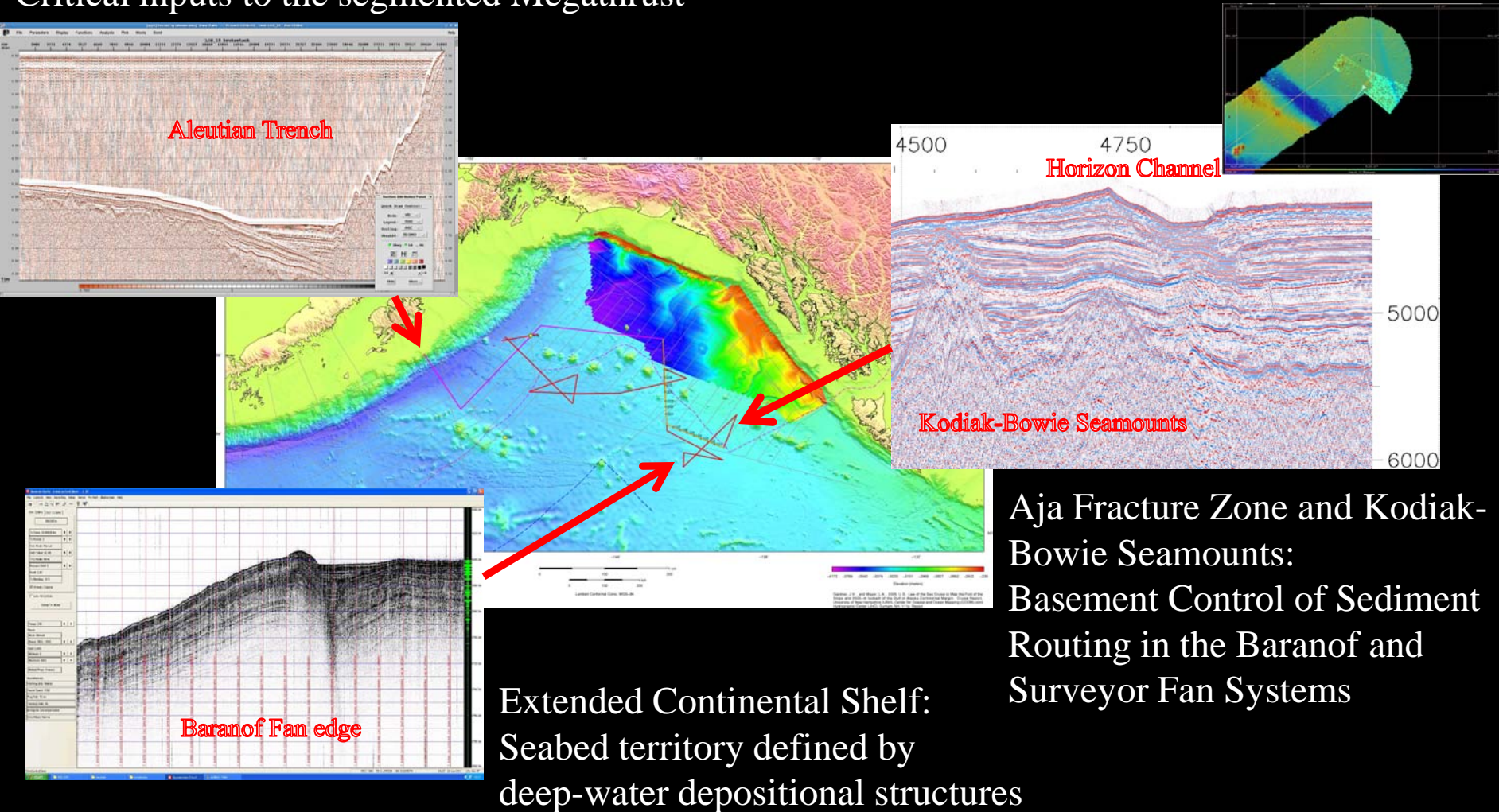


Bering Sea  
August 8 – September 2  
MGL1111

# Gulf of Alaska Summer 2011

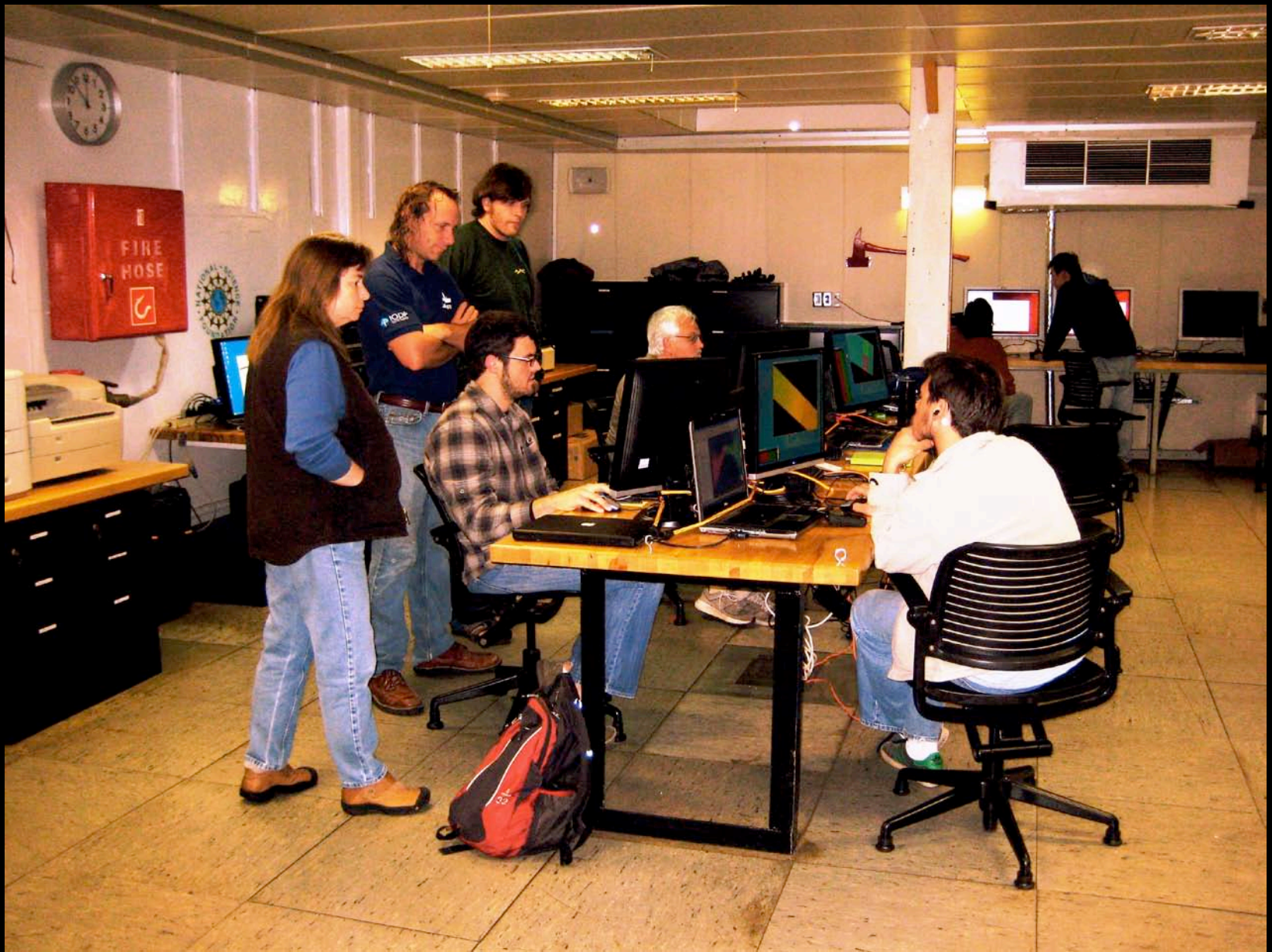
3200 km 2D MCS profiles  
14 OBS + 6 sonobuoys  
77 expendable bathy-T profiles  
3800 km multibeam, Chirp,  
gravity and magnetics

Subducting crust and sediment structures:  
Critical inputs to the segmented Megathrust



Aja Fracture Zone and Kodiak-Bowie Seamounts:  
Basement Control of Sediment  
Routing in the Baranof and  
Surveyor Fan Systems

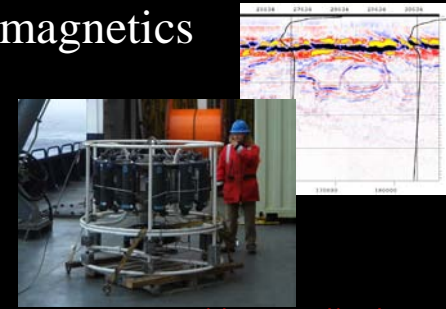
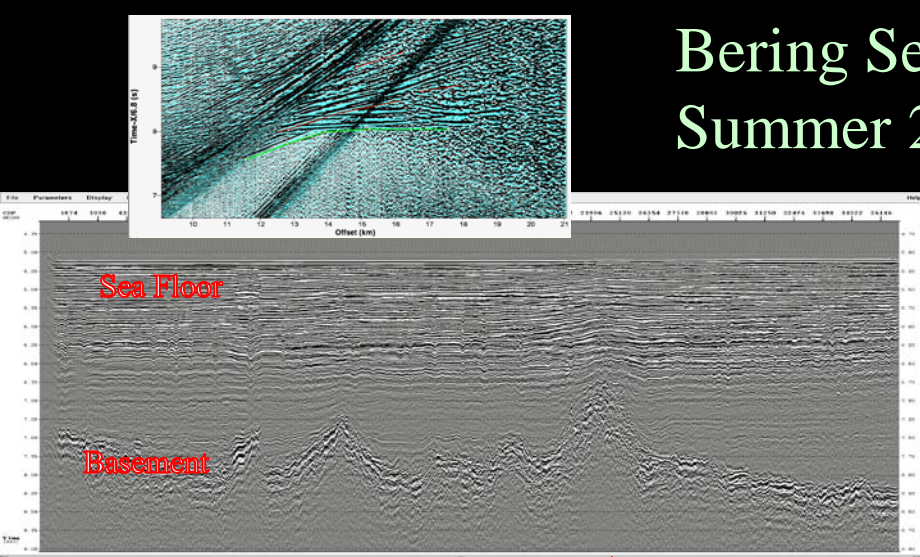
Extended Continental Shelf:  
Seabed territory defined by  
deep-water depositional structures



On-board UTIG processing network

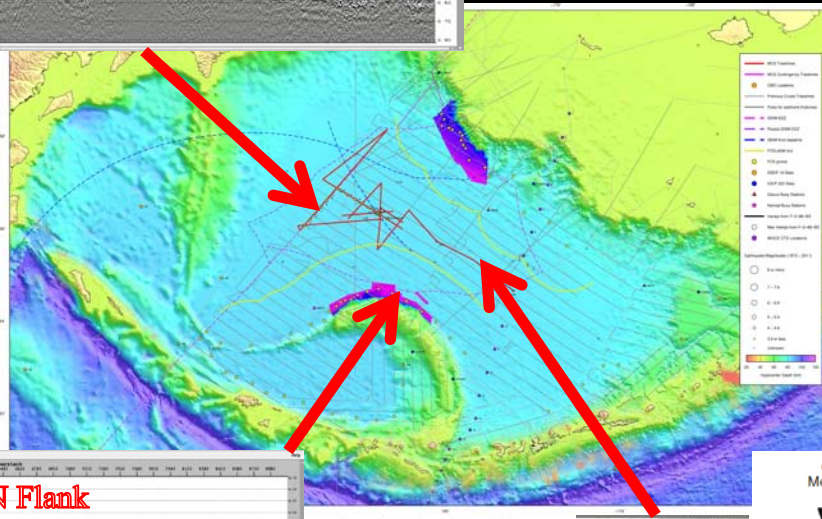
# Bering Sea Summer 2011

2200 km 2D 636-channel MCS profiles  
17 OBS + 33 sonobuoys  
133 expendable bathy-thermo profiles  
8 shallow + 4 full-depth CTD casts  
5000 km multibeam, Chirp,  
gravity and magnetics

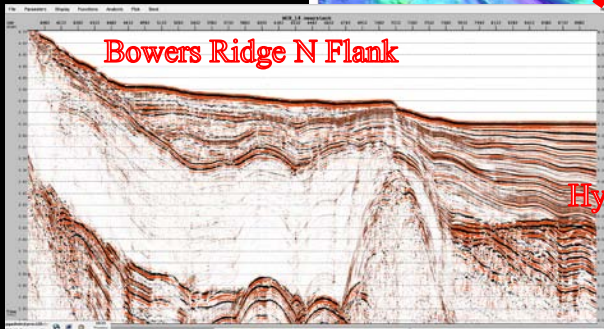


Oceanographic Contributions

Extended Continental  
Shelf:  
Substantial seabed  
territory based on  
sediment thickness

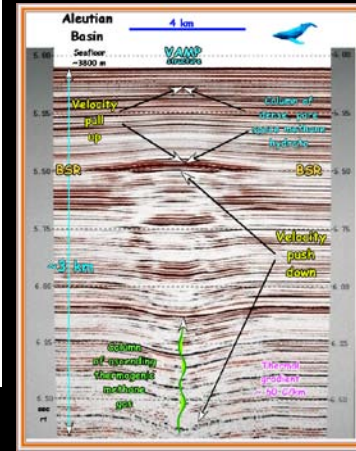
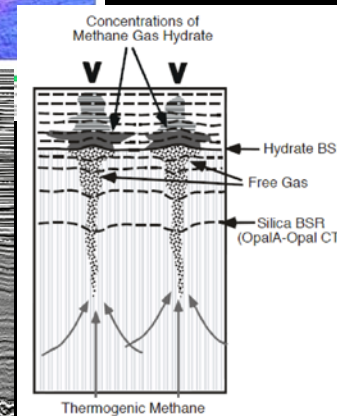


Natural Gas and Hydrate:  
Resource concentrations  
linked to basement  
topography and fluid flow



Hydrate BSR

Silica BSR



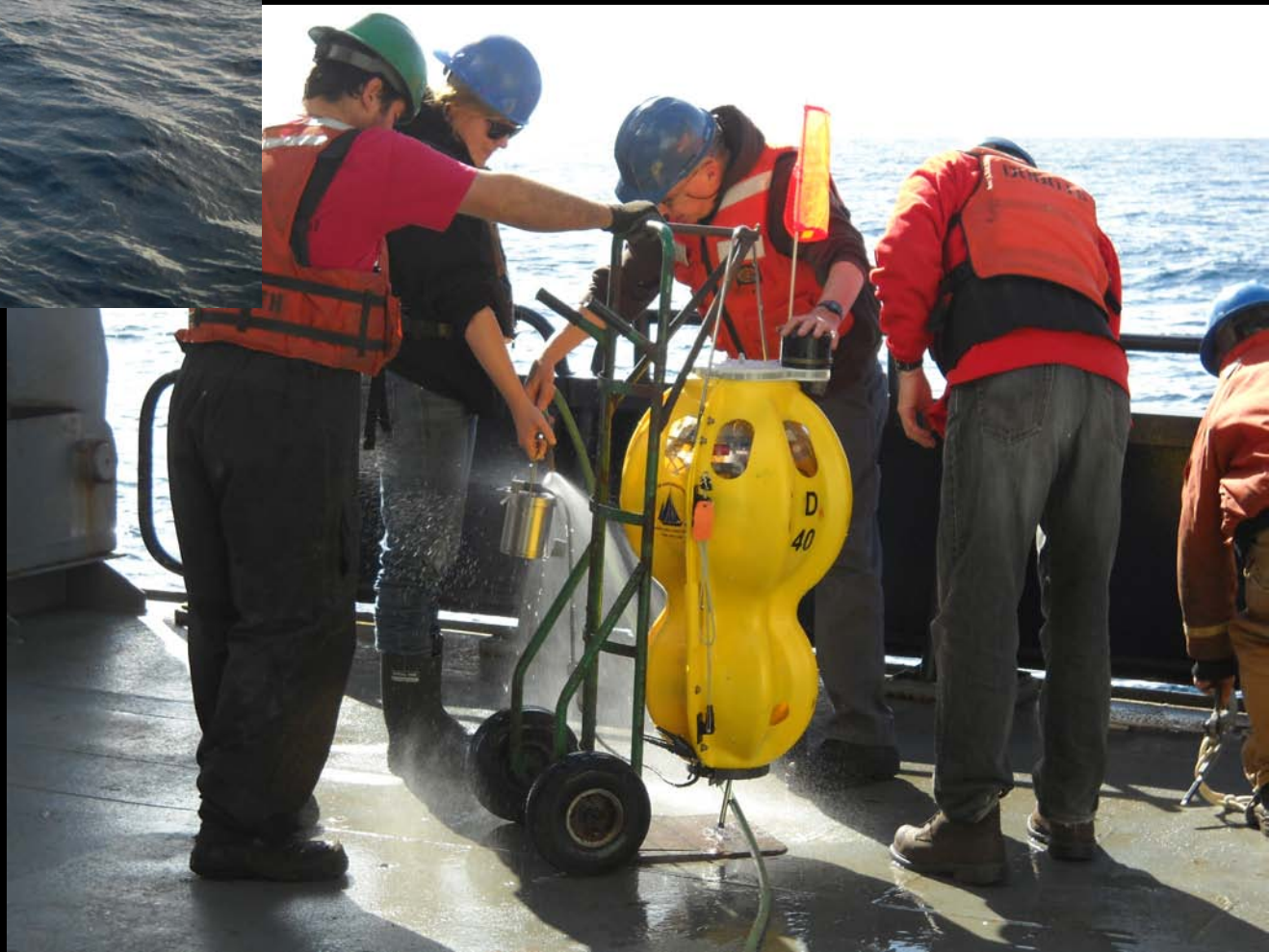
Bowers Ridge and Oceanic Basement:  
Keys to the tectonic history of the Alaska Region

# Happy Scientists



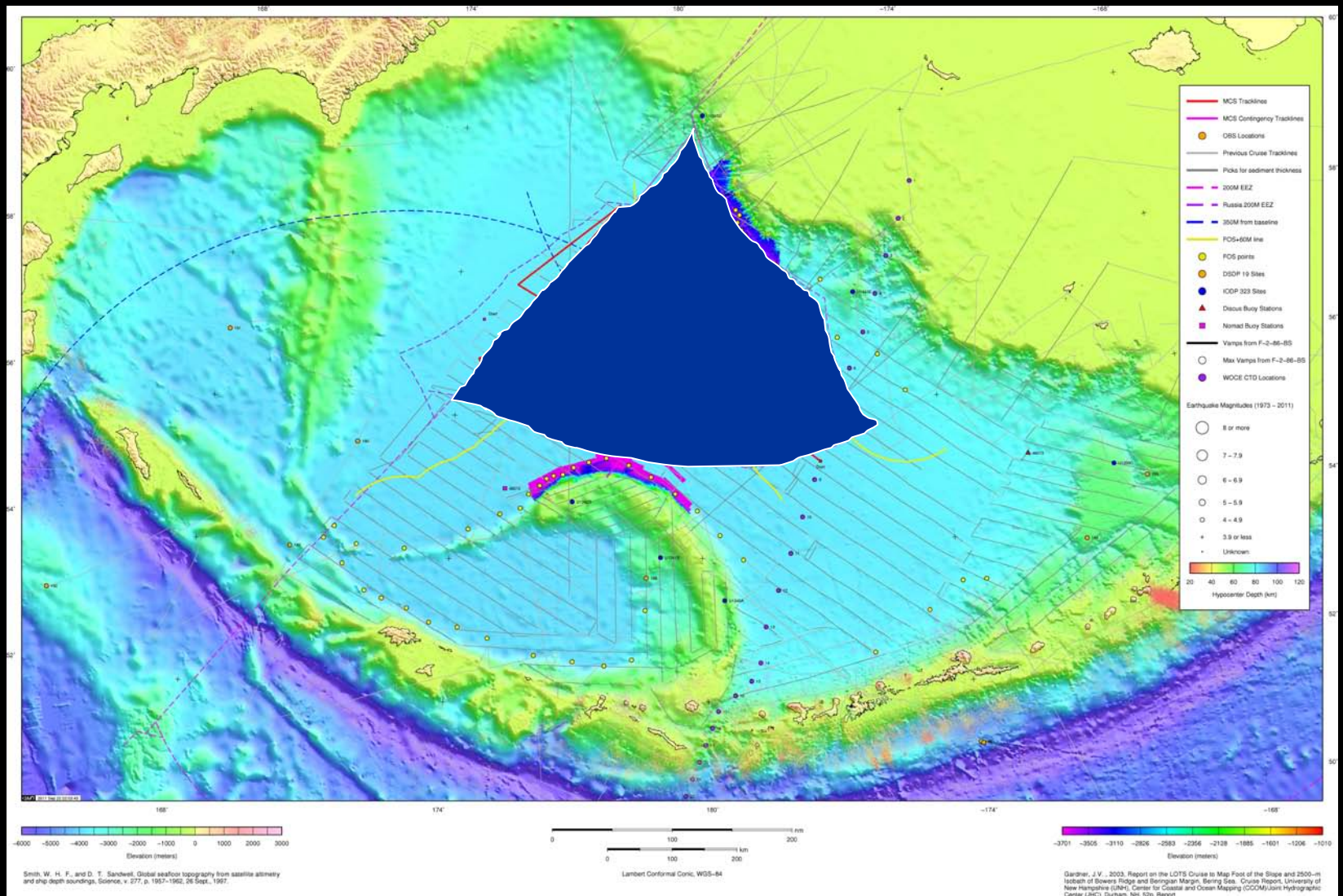


OBS operations



# Bering Sea

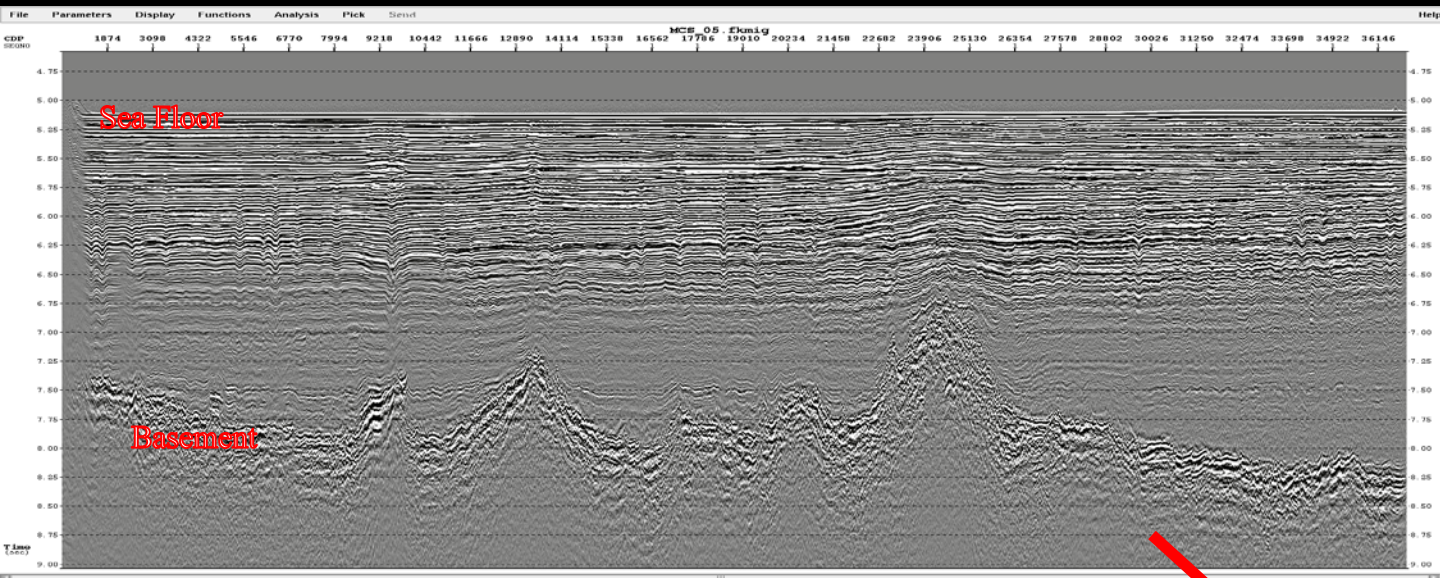
## Donut-Hole of international water



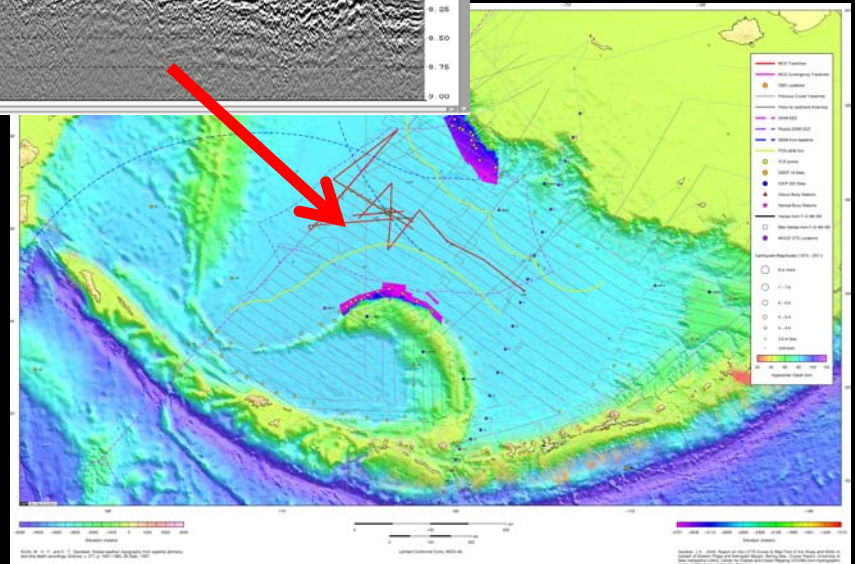
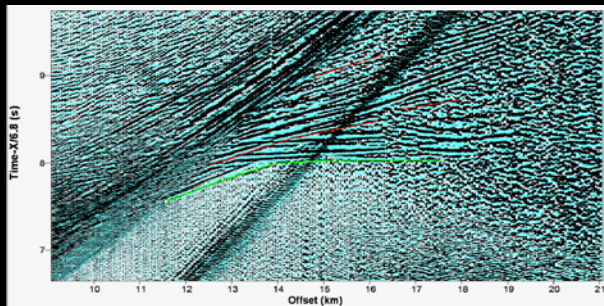
# Bering Sea Summer 2011

Extended Continental Shelf:  
Substantial seabed territory  
based on sediment thickness

## MCS reflection

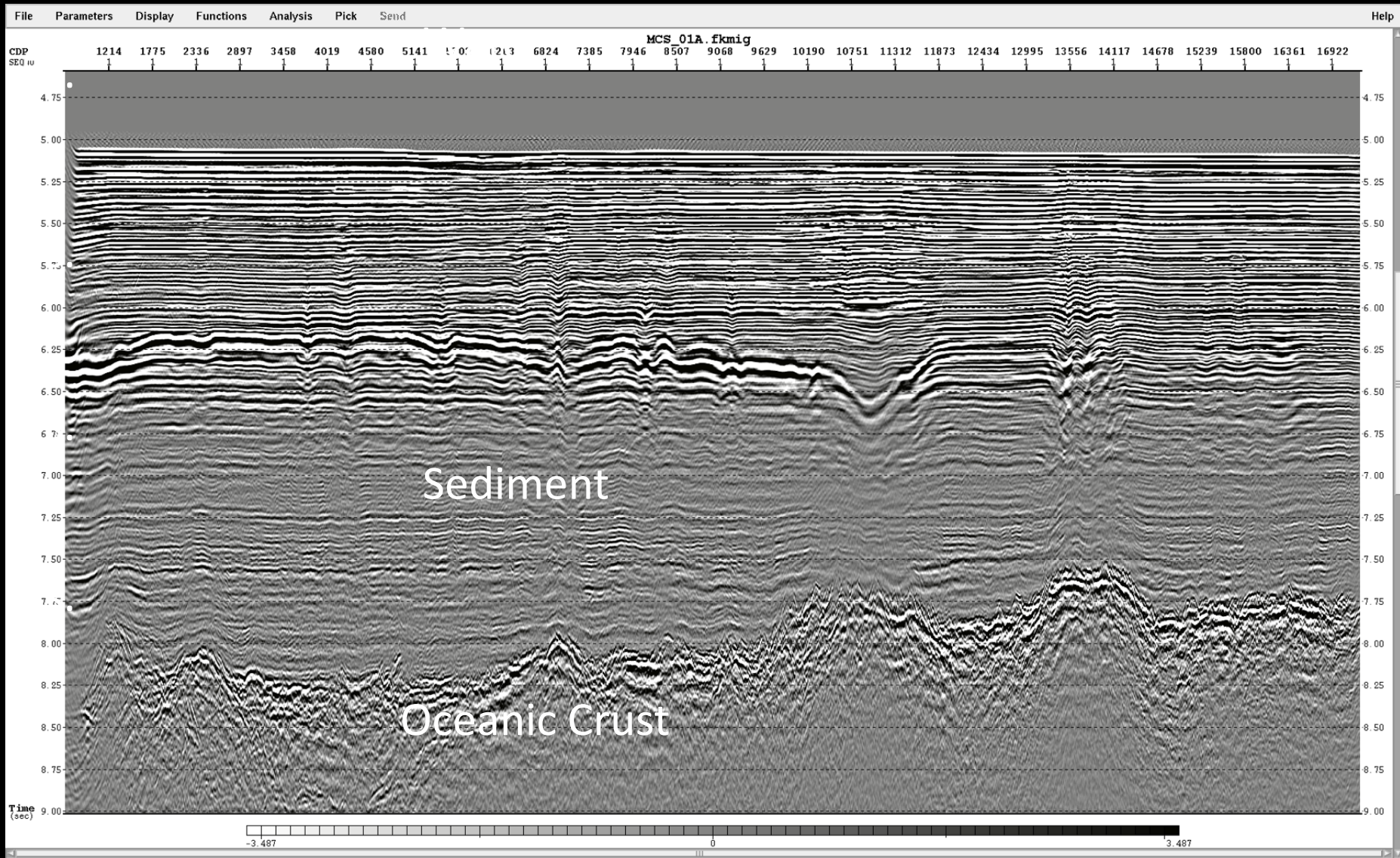


## Sonobuoy refraction



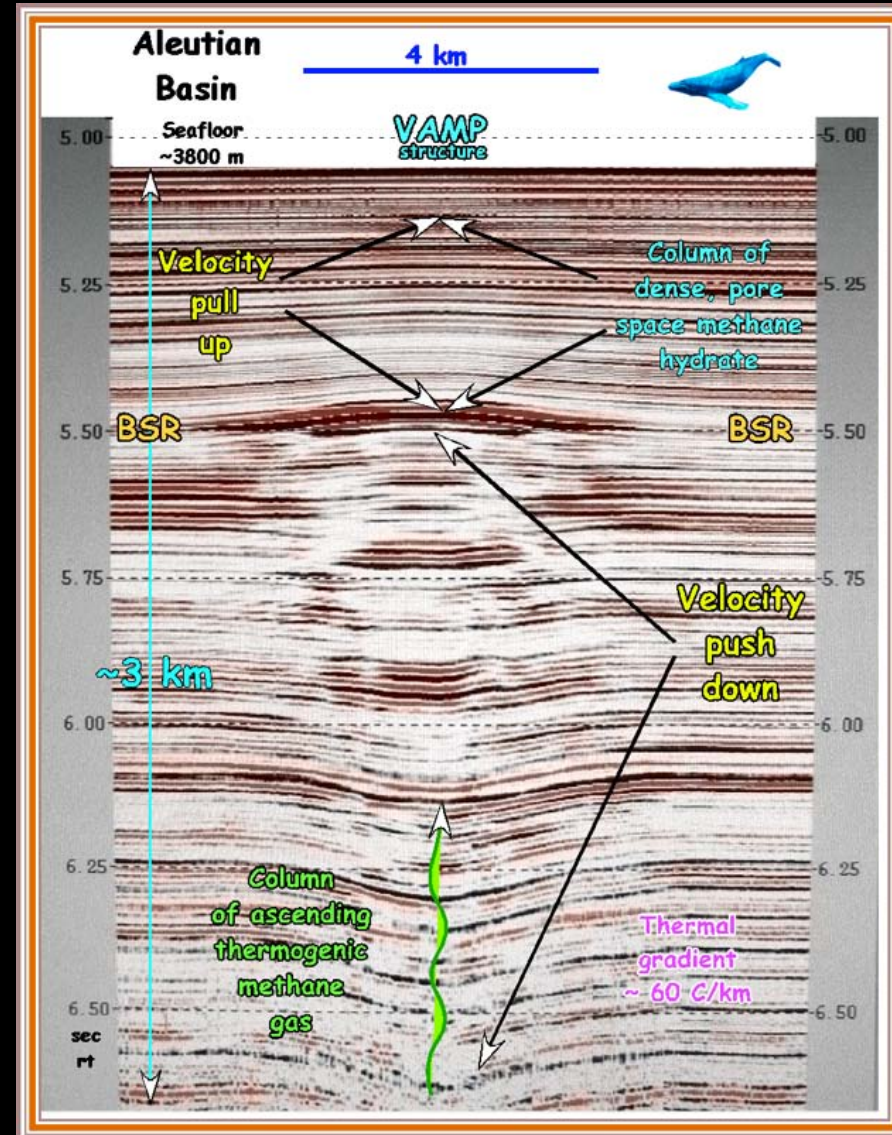
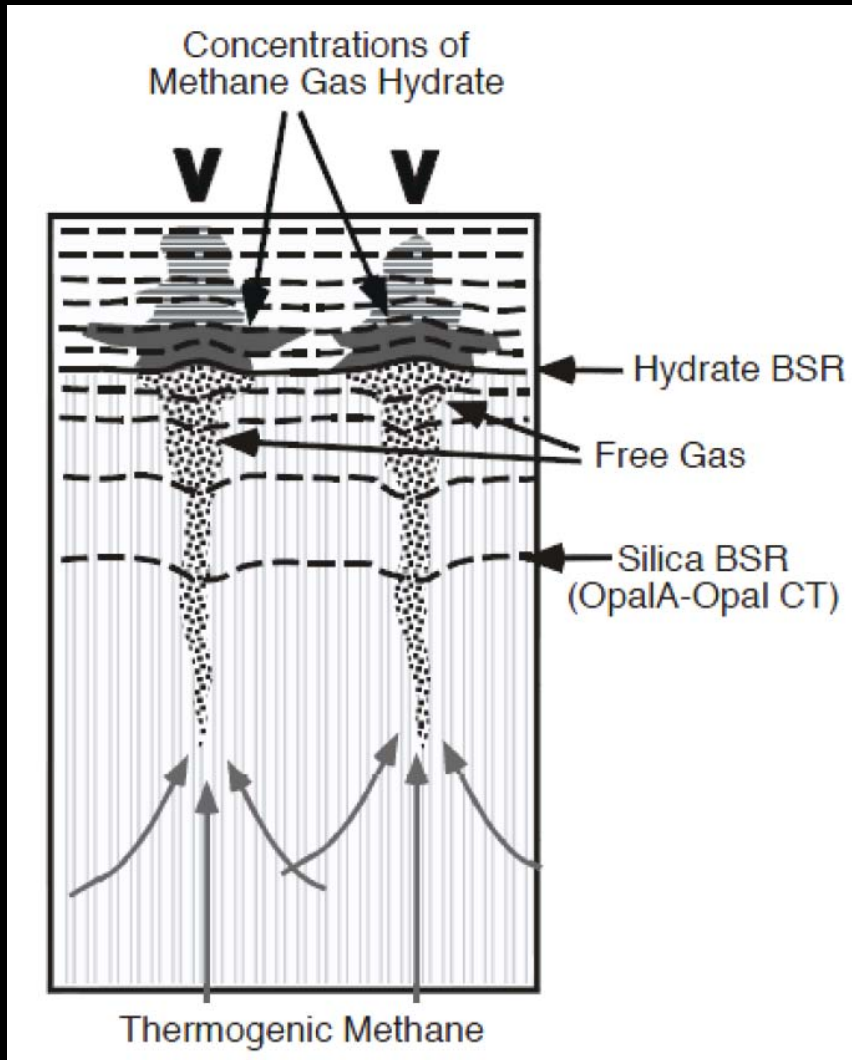
# Natural Gas and Hydrate:

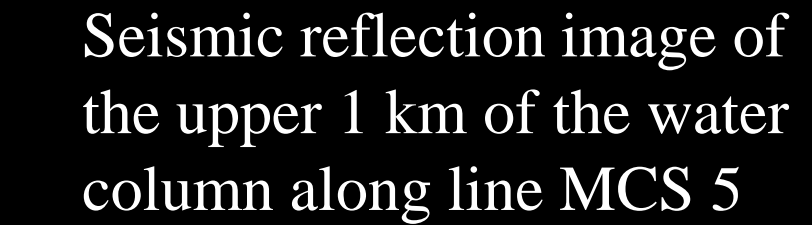
## Resource concentrations linked to basement topography and fluid flow



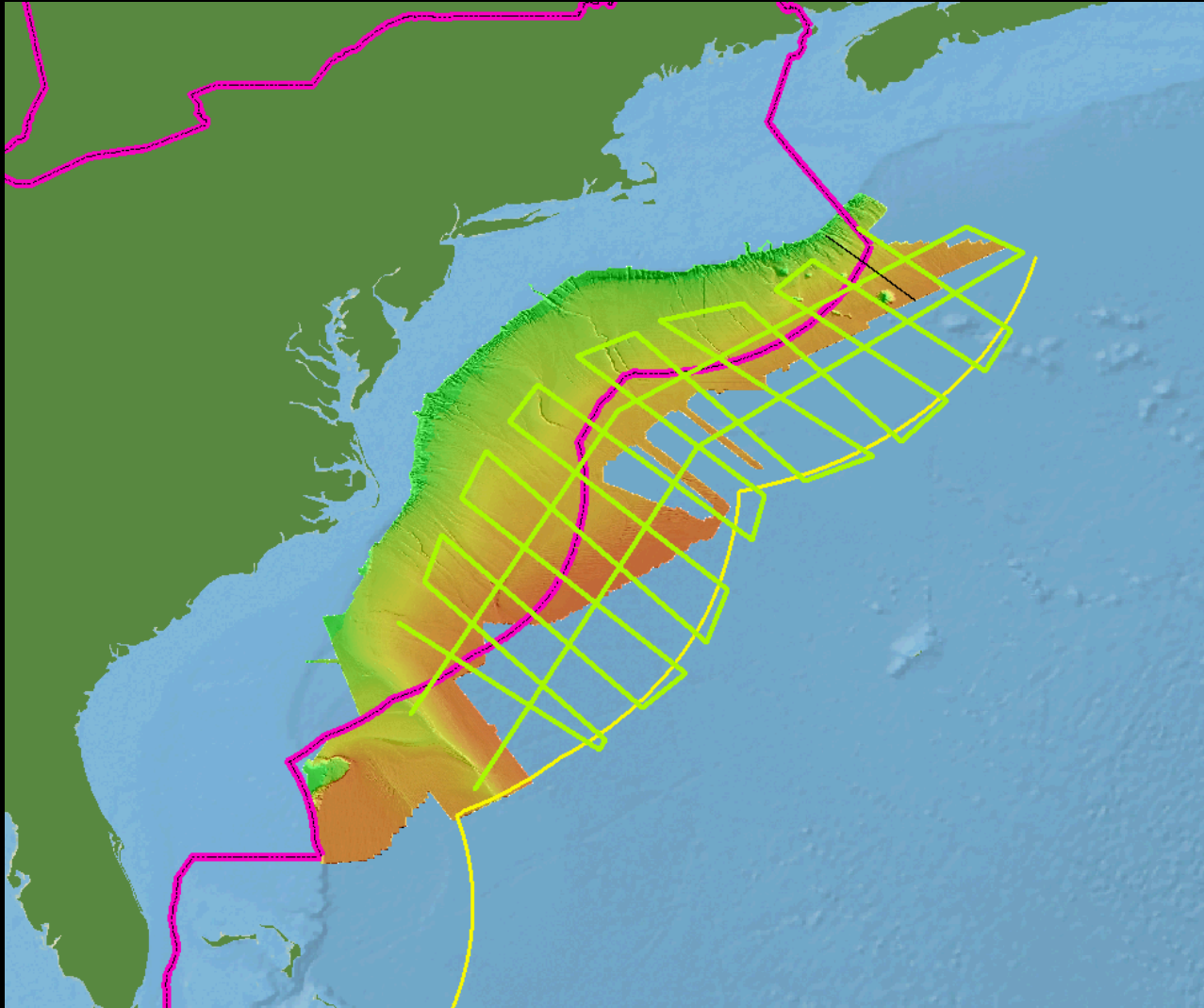
# Bering Sea

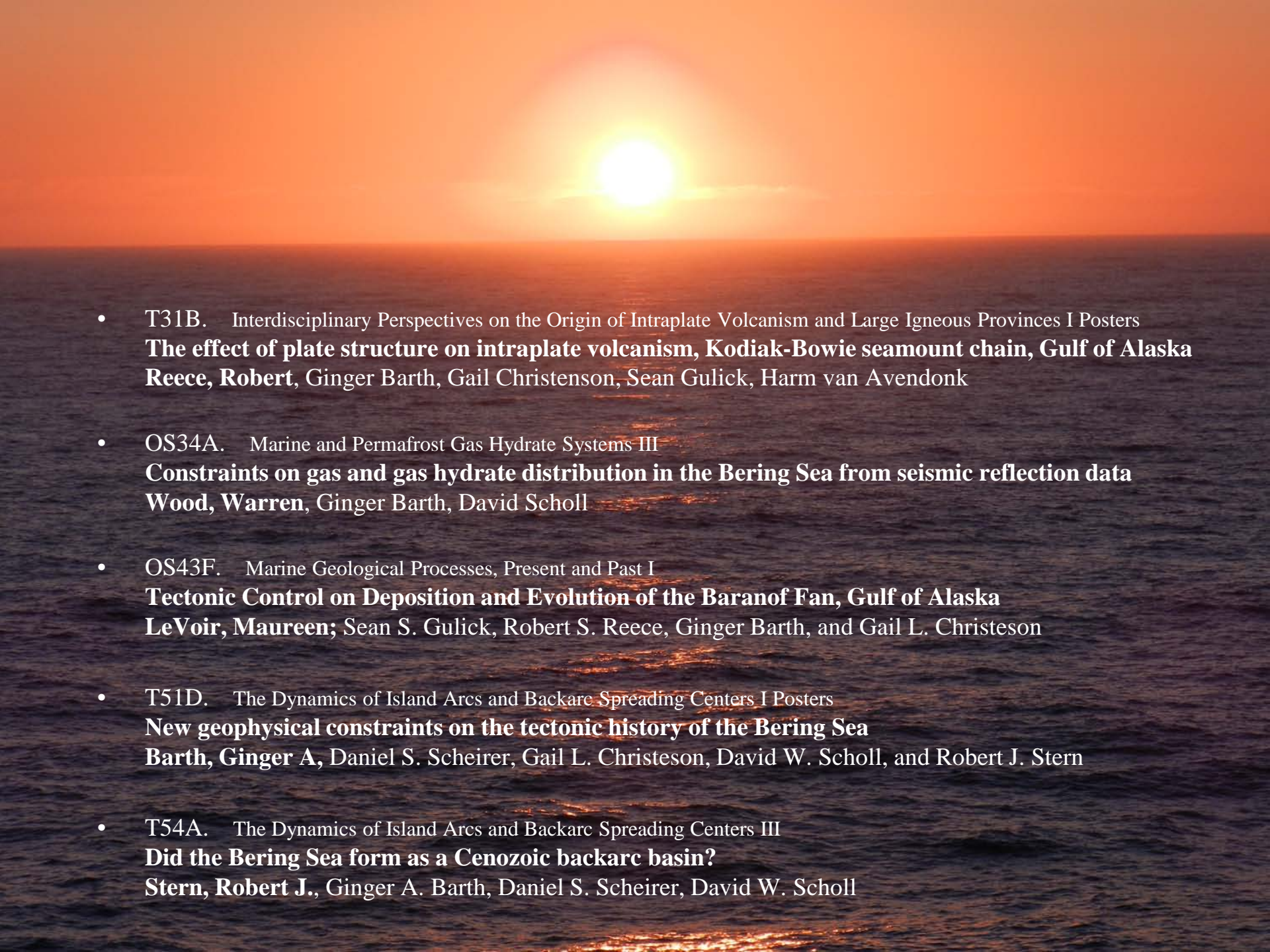
Natural Gas and Hydrate:  
Resource concentrations linked to  
basement topography and fluid flow



[illegible]

# Proposed 2014-2015 Atlantic ECS Program



- 
- T31B. Interdisciplinary Perspectives on the Origin of Intraplate Volcanism and Large Igneous Provinces I Posters  
**The effect of plate structure on intraplate volcanism, Kodiak-Bowie seamount chain, Gulf of Alaska**  
Reece, Robert, Ginger Barth, Gail Christenson, Sean Gulick, Harm van Avendonk
  - OS34A. Marine and Permafrost Gas Hydrate Systems III  
**Constraints on gas and gas hydrate distribution in the Bering Sea from seismic reflection data**  
Wood, Warren, Ginger Barth, David Scholl
  - OS43F. Marine Geological Processes, Present and Past I  
**Tectonic Control on Deposition and Evolution of the Baranof Fan, Gulf of Alaska**  
LeVoir, Maureen; Sean S. Gulick, Robert S. Reece, Ginger Barth, and Gail L. Christeson
  - T51D. The Dynamics of Island Arcs and Backarc Spreading Centers I Posters  
**New geophysical constraints on the tectonic history of the Bering Sea**  
Barth, Ginger A, Daniel S. Scheirer, Gail L. Christeson, David W. Scholl, and Robert J. Stern
  - T54A. The Dynamics of Island Arcs and Backarc Spreading Centers III  
**Did the Bering Sea form as a Cenozoic backarc basin?**  
Stern, Robert J., Ginger A. Barth, Daniel S. Scheirer, David W. Scholl

A background image of a sunset over the ocean. The sun is a bright, glowing orb in the center of the upper half of the frame, casting a long, shimmering reflection down the center of the dark, choppy water. The sky is a deep orange-red, and the horizon line is visible in the middle of the image.

## USGS VACANCY ANNOUNCEMENT

Job Title: Research Geophysicist/Research Geologist

Job Announcement Number: PAC-2013-0047

SALARY RANGE: \$81,460.00 to \$105,897.00 / Per Year

OPEN PERIOD: Monday, November 26, 2012 to Friday, January 04, 2013

SERIES & GRADE: GS-1313/1350-12

POSITION INFORMATION: Term Appointment - Full-Time

DUTY LOCATIONS: FEW vacancies - Santa Cruz, CA, US

### DUTIES:

As a Research Geophysicist or Research Geologist within the Pacific Coastal Marine Science Center, some of your specific duties will include:

- Plan and conduct research in the fields of marine geology, regional tectonics, crustal structure, structural geology, and sedimentology.
- Collect and interpret onshore and offshore seismic, gravity, magnetic, seafloor bathymetric and backscatter data, and dredge/core samples on continental margins.
- Communicate research results via formal publications and oral presentations.