

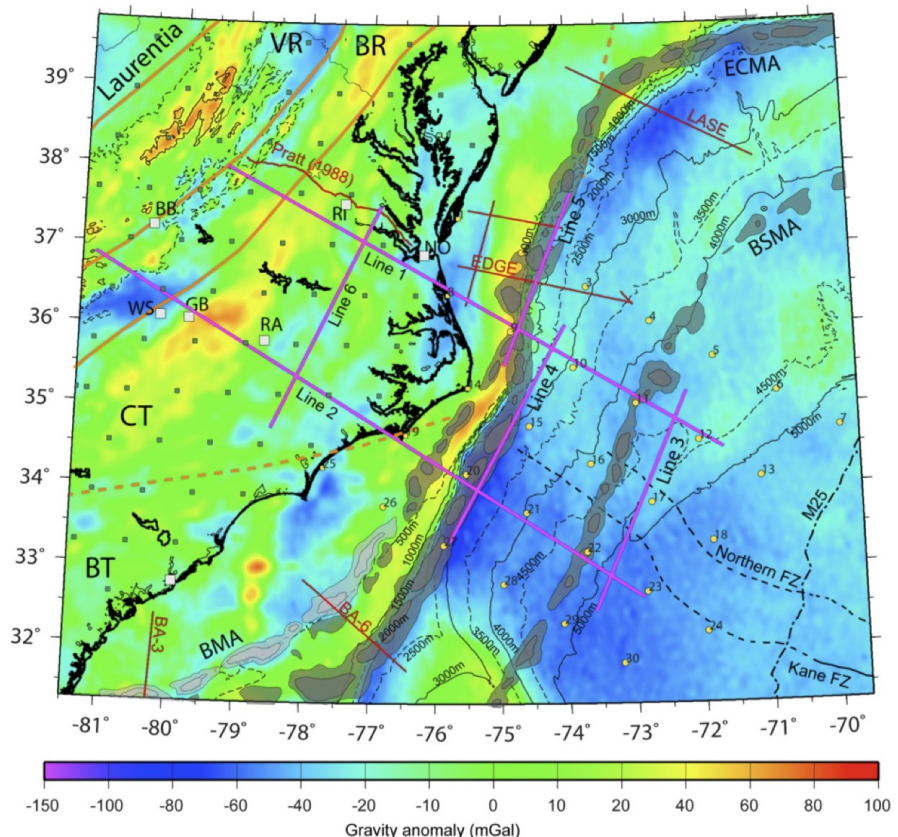
# OBSIP Experiment Archive

<b>Year:</b>	2014
<b>Experiment Name:</b>	Eastern North American Margin (ENAM) Community Seismic Experiment
<b>Principal Investigator(s):</b>	Harm Van Avendonk (UT Austin) Beatrice Magnani (SMU) Donna Shillington (LDEO) Matt Hornbach (SMU) Jim Gaherty (LDEO) Brandon Dugan (Rice) Mareen Long (Yale) Anne Bécel (LDEO) Maggie Benoit (TCoNJ) Steven Harder (UT El Paso) Gail Christeson (UT Austin)

## Experiment Summary:

(Taken from ENAM website) The ENAM Community Seismic Experiment will involve the acquisition of onshore/offshore, active and passive seismic data focused on the mid-Atlantic Eastern North American rifted margin during a series of field programs in the spring and summer of 2014. The data will be openly available to the community and will also serve as the focus for short courses on active-source data analysis.

The overall location of this study was chosen based on community input from an online poll.



*Draft plan for regional seismic profiles (purple lines) and offshore broadband seismic deployment. Red lines represent vintage seismic reflection and refraction data in the region*

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**Experiment Summary:** ...The experiment is designed to acquire data that can be used to address key questions in the GeoPRISMS science plan concerning the formation and post-rift evolution of rifted continental margins at a variety of scales. In particular, this experiment encompasses the rifted margin from unextended continental crust onshore to oceanic crust offshore and spans multiple rift segments along the margin. It also covers several submarine landslides on the continental slope.

## Cruises:

*4/1/2014 - 4/16/2014:*

30 OBSIP broadband ocean-bottom seismometers were deployed along the eastern coast of North America on board the R/V Endeavor. Onshore broadband seismometers were also deployed on the Outer Banks in May 2014.

*9/12/14 - 10/13/2014:*

47 OBSIP short period ocean-bottom seismometers were deployed as the active source component of the ENAM experiment. The R/V Marcus G. Langseth was employed to shoot airguns over the array in October 2014. 80 onshore seismometers were also deployed in North Carolina and Virginia to record the offshore shots.

*3/27/15 - 4/9/2015:*

30 OBSIP broadband ocean-bottom seismometers were recovered on board the R/V Endeavor. Onshore active source seismic data was collected along three profiles in the summer of 2015.

## Data:

Data from all OBSIP instruments deployed is archived under temporary network code [YO](#) and assembled data set ID #[14-005](#) at the IRIS DMC. This data can be accessed using all IRIS DMC request tools. Data includes:

30 WHOI broadband stations (Filtered 3 Hz, 1 Hz, and DPG channels - unfiltered high-rate redacted data available soon)

48 SIO short-period geophones (Unfiltered high-rate and hydrophone channel)

47 WHOI short-period geophones (Unfiltered high-rate, unfiltered 1 Hz, and hydrophone channels)

## Downloads/Links:

[GeoPRISM Experiment Website](#)

[ENAM Newsletter Articles](#)

[Cruise Blog—2014](#)

[Cruise Blog—2015](#)

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**Additional Information:** On September 30, 2014, at the end of a deployment for the Eastern North American Margin (ENAM) community seismic experiment aboard the R/V Endeavor, Ernie Aaron had the idea to attach a GoPro camera to an ocean bottom seismometer (OBS). This instrument was recovered the next day and Ernie, an OBS development technician at Scripps Institute of Oceanography, put this video together to show the full experience of an instrument. Most OBS are deployed in water depths greater than a kilometer, but this one was in very shallow water of ~29 m (95 ft) depth just under the 100 ft rating of the underwater camera housing.

This video of a shallow OBS deployment and recovery was created by Ernie Aaron (SIO).

