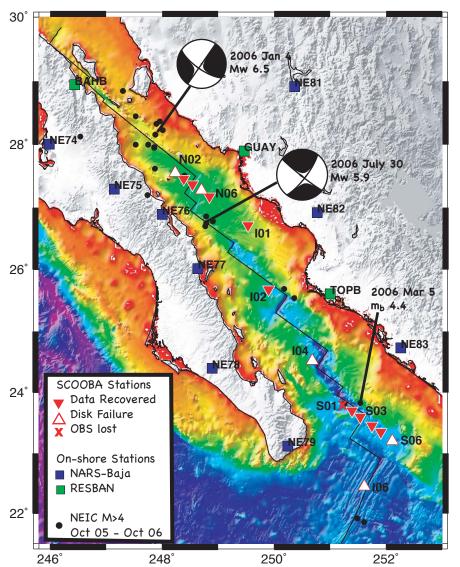
Sea of Cortez Ocean-Bottom Array Seismic Experiment

Jim Gaherty, Lamont-Doherty Earth Observatory

John Collins, Woods Hole Oceanographic Institution

Cecilio Rebollar, Raul Castro, and Carlos Huerta, CICESE



Bathymetry map of the southern Sea of Cortez (Gulf of California) region. Cold colors represent deeper water, while hot colors represent shallow water. Solid black line indicates the Pacific-North America plate boundary. Triangles indicate SCOOBA OBS station locations, with colors representing current state of data recovery (see inset and status report). Squares show locations of onshore broadband stations of the RESBAN network operated by CICESE, as well as the temporary stations of the NARS-Baja experiment. Small black circles show locations of earthquakes with magnitude 4 and larger that occurred during the duration of the experiment. Large "beachballs" show the focal mechanisms of the two largest events.



Status Report Apr 2007

Broadband (4-component) OBS experiment designed to complement the onshore NARS-Baja experiment run by Utrecht University, CalTech, and CICESE.

Two subarrays centered within the Alarcon and Guaymas basins, coinciding with previous refraction and MCS lines (Lizarralde et al; Sutherland et al.), with ~20 km spacing. Four additional instruments at ~100 km spacing.

15 OBS deployed Oct 2005. 14 OBS recovered Oct 2006. 1 OBS lost.

Data recovery to date:

8 OBS -- 100%

1 OBS -- 35% (remainder uncertain)

4 OBS -- 0% (recovery uncertain)

1 OBS -- 0% (no recovery possible)

Personnel from the Scripps Institute of Oceanography OBS Instrument facility are working to recover the remaining data.

For further information, contact gaherty@LDEO.columbia.edu