



AWSFL008-DS3

**NSF Award Abstract**  
**- #0111983**

**Margins: Collaborative Research: Seismic and  
Geologic Study of Gulf of  
California Rifting and Magmatism**

**NSF Org** OCE

**Latest Amendment Date** May 28, 2003

**Award Number** 0111983

**Award Instrument** Standard Grant

**Program Manager** Bilal U. Haq  
OCE DIVISION OF OCEAN  
SCIENCES  
GEO DIRECTORATE FOR  
GEOSCIENCES

**Start Date** April 1, 2002

**Expires** March 31, 2005 (Estimated)

**Expected Total Amount** \$431022 (Estimated)

**Investigator** Daniel Lizarralde  
danl@hatteras.eas.gatech.edu  
(Principal Investigator current)

**Sponsor** GA Tech Res Corp - GIT  
Office of Sponsored Programs  
Atlanta, GA 303320420  
404/385-0866

**NSF Program** 1620 MARINE GEOLOGY AND  
GEOPHYSICS

**Field Application** 0204000 Oceanography

**Program Reference Code 0000,OTHR,**

## **Abstract**

Funding is provided for a seismic and structural geology experiment to delineate the geometries and patterns of crustal extension and rift magmatism along three main conjugate margins across Alarcon, Guaymas and Delfin Basins (to study the south to north seafloor-spreading to non-spreading mode) and a E-W profile along Wagner Basin (to study the low-angle detachment fault at depth). The questions to be addressed include, strain partitioning, volumetric and emplacement style of rift magmatism, along-axis differences in extension style and the influence of sedimentation on deformation. An integrated land-based and at sea study is planned for the next three years.

---

You may also retrieve a [text version](#) of this abstract.

---

Please report errors in award information by writing to: [award-abstracts-info@nsf.gov](mailto:award-abstracts-info@nsf.gov).

---

**Please use the browser back button to return to the previous screen.**