



AWSFL008-DS3

NSF Award Abstract
- #0203616

**Collaborative Research: The Four-Dimensional
Pattern of Rifting in the Southern
Gulf of California**

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Program Manager Bilal U. Haq
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Investigator Paul J. Umhoefer
paul.umhoefer@nau.edu (Principal
Investigator current)

Sponsor Northern Arizona Univ
100 Babbitt Administrative Ctr.
Flagstaff, AZ 860114130
928/523-4880

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Abstract

The PIs will carry out a swath bathymetry survey of the southern Gulf of California, obtain 3.5 kHz, magnetic and gravity profiles and collect dredge samples of the volcanic basement. The objectives are to test hypotheses concerned with the generic problems of how continental rifts are segmented tectonically and whether this relates to asymmetries of faulting, how rift propagation occurs tectonically and what type(s) of magmatism accompanies continental break-up and earliest seafloor spreading. The Gulf of California is a MARGINS' focus site and this study will complement other research being carried out and planned for this region.

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