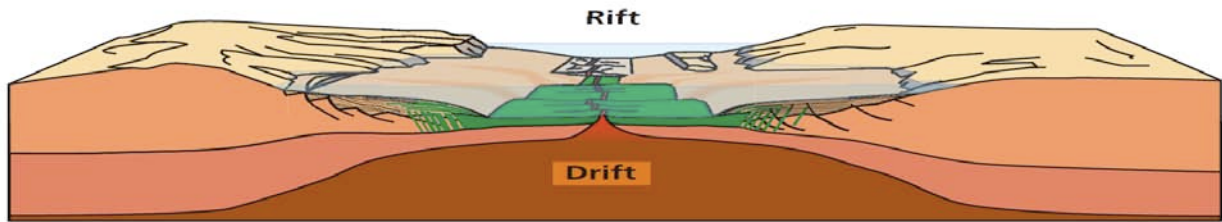


## T19 - Gulf of California-Salton Trough Rift Margin: Recent Findings and Remaining Questions



We would like to encourage everyone working within the Gulf of California-Salton Trough rift system to submit an abstract to this **Fall 2009 AGU Tectonophysics** session. We welcome abstracts from all authors, regardless if they receive funding or not from the NSF-MARGINS Rupturing Continental Lithosphere initiative.

The **abstract deadline is Thursday, September 3, 2009**. The period for abstract submission is currently open. Follow [this link](#) to submit an abstract. Please feel free to contact one of the conveners with any questions.

### Conveners:

Scott Bennett (UC Davis) [sekbennett@ucdavis.edu](mailto:sekbennett@ucdavis.edu)

Daniel Brothers (Scripps) [dbrother@ucsd.edu](mailto:dbrother@ucsd.edu)

Jared Kluesner (Scripps) [jkluesne@ucsd.edu](mailto:jkluesne@ucsd.edu)

### T19 Session Description:

Continental rifting and formation of ocean basins is a fundamental component of plate tectonics. The Gulf of California-Salton Trough represents an active oblique-divergent plate boundary that provides a superb natural laboratory to study processes driving continental rifting and the spatial and temporal evolution of a young rifted margin. The Gulf of California-Salton Trough has been a focus site for the NSF-MARGINS 'Rupturing Continental Lithosphere' (RCL) initiative for nearly a decade, resulting in transformative research and discoveries from a focused community of earth scientists. Although much has been discovered about this young rift during the past decade, many fundamental questions remain in the following areas: (1) understanding early continental break-up and extension, (2) the role of magmatism and fluids, (3) 4-D distribution of lithospheric strain, (4) the interplay of sedimentation and climate and their influences on rift architecture, (5) timing of marine incursion, and (6) the nature of the continent-ocean lithospheric boundary. As Margins RCL reaches its 10<sup>th</sup> year, this session serves to highlight recent and ongoing research in the Gulf of California-Salton Trough, and to summarize remaining questions regarding processes that rupture continental lithosphere. We invite all abstracts pertaining to the physical development of this rift system.

