



AWSFL008-DS3

**NSF Award Abstract**  
**- #0305373**

**Collaborative Research: Late Quaternary  
Siliciclastic and Carbonate Sediments  
and Sediment Fluxes on the Slopes and Basin  
Floors of the Ashmore and Pandora  
Troughs, Gulf of PNG**

**NSF Org** OCE

**Latest Amendment Date** July 29, 2003

**Award Number** 0305373

**Award Instrument** Continuing grant

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

**Start Date** November 1, 2003

**Expires** October 31, 2006 (Estimated)

**Expected Total Amount** \$236197 (Estimated)

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**NSF Program** 1620 MARINE GEOLOGY AND  
GEOPHYSICS

## **Abstract**

Funds will be provided to investigate sedimentation processes in the mixed siliciclastic carbonate slope and basin environment in the Gulf of Papua as a part of the integrated source-to-sink experiment at the Fly River-Gulf of Papua focus site of MARGINS. Through the use of detailed acoustic surveys and seabed and water column sampling the proposers will estimate sediment fluxes and transport pathways from the shelf edge and carbonate reef margins to the ultimate sinks of the Ashmore and Pandora troughs over the last interglacial cycle. The work will lead to an understanding of the history of sediment accumulation on the continental slope and the deep ocean for the mixed system as well as sediment fluxes and transport mechanisms by identifying timing and geometry of deposition in the Gulf. The ultimate objective is to develop a model for mixed carbonate-siliciclastic deposition.

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