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**Award Abstract #0548387****Collaborative Research: Developing a Further Quantitative Understanding of Clinoform Formation, Gulf of Papua**

NSF Org: OCE

Initial Amendment Date: March 17, 2006

Latest Amendment Date: March 17, 2006

Award Number: 0548387

Award Instrument: Standard Grant

Program Manager: Rodey Batiza
OCE Division of Ocean Sciences
GEO Directorate for Geosciences

Start Date: March 15, 2006

Expires: February 28, 2007 (Estimated)

Awarded Amount to Date: \$56161

Investigator(s): Rudy Slingerland sling@geosc.psu.edu(Principal Investigator)

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NSF Program(s): MARINE GEOLOGY AND GEOPHYSICS

Field Application(s): 0204000 Oceanography

Program Reference Code(s): OTHR,1620,0000

Program Element Code(s): 1620

ABSTRACT

This award is for one year of additional funding to complete a MARGINS Source-to-Sink investigation of the subaqueous clinoform in the Gulf of Papua (GoP). Due to fortunate circumstances they acquired more than 6800 km of high-resolution seismic data (2300 km of surface-towed Edgetech and 4500 km of hull-mounted Knudsen) and 46 piston and gravity cores for a total cumulative core length of 432 m. This third year of funding will be used to complete the analysis of the

data, numerical modeling, and synthesis. Additional radiometric ages, seismic mapping of specific lenses, numerical modeling of ocean circulation at a lower sea level, and identification of sediment sources through geochemical and petrographic analysis will allow the PIs to test the hypotheses developed during the first two years of funding. The broader impacts include the participation of graduate students and the outreach activities carried out in Papua New Guinea and the Scripps Aquarium.

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Last Updated: Feb 10, 2006