



AWSFL008-DS3

NSF Award Abstract
- #0203351

**Processes Controlling Depositional Signals of
Environmental Change in the Fly
River Sediment Dispersal System: Mechanisms
and Rates of Shelf Cliniform
Development**

NSF Org OCE

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Program Manager Amos Winter
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Investigator Charles A. Nittrouer
nittroue@ocean.washington.edu
(Principal Investigator current)
Andrea S. Ogston (Co-Principal
Investigator current)
Richard W. Sternberg
(Co-Principal Investigator current)

Sponsor U of Washington

3935 University Way NE
Seattle, WA 981056613
206/543-4043

NSF Program 1620 MARINE GEOLOGY AND
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Abstract

This project will investigate the processes of sediment transport and accumulation that lead to development of the shelf clinoform in the Gulf of Papua off the Fly River. The study will include a variety of sampling and monitoring stations from near the river mouth to the base of the clinoform that will provide time-series observations on the spatial and temporal variation in present day sediment transport and accumulation. The study will specifically investigate the role of fluid muds as primary mechanism for across-shelf transport of sediment that leads to clinoform morphology. Core studies including radioisotope measurements will provide information of sediment transport and accumulation on seasonal to millennial time scales.

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