



AWSFL008-DS3

NSF Award Abstract
- #0405651

**Mantle Inputs to the Subduction Factory:
Assessing Scales of Spatial Variability
along and across the IBM Convergent Margin**

NSF Org OCE

Latest Amendment Date June 4, 2004

Award Number 0405651

Award Instrument Standard Grant

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SCIENCES
GEO DIRECTORATE FOR
GEOSCIENCES

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NSF Program 1620 MARINE GEOLOGY AND
GEOPHYSICS

Field Application 0204000 Oceanography

Program Reference Code 0000,OTHR,

Abstract

This award is an Accomplishment-Based Renewal of NSF grant 0001827, which supported surveying and sampling of the southern Mariana arc and back-arc basin during the Cook 7 expedition (R/V Melville) as part of the MARGINS Subduction Factory experiment. This award will allow the following 4 research efforts over the next five years: 1) Completion of four sub-projects begun on samples collected during Cook 7. 2) Participation in a NOAA cruise to study hydrothermal sites in the Marianas with ROV. The PI has been invited to participate and to study igneous rocks collected during the planned cruise. 3) Participation in JAMSTEC study of infant arc crust west of the Bonin Islands. A team of US and Japanese scientists propose to use JAMSTEC's Shinkai 6500 manned submersible to study exposures of infant arc crust exposed along scarps west of the Bonin islands, Japan. The diving program that promises to resolve the ophiolite conundrum as well as help demonstrate how subduction zones begin; and 4) Continued Participation in MARGINS Rapid Response to May 2003 Eruption of Anatahan.

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