



AWSFL008-DS3

NSF Award Abstract
- #0221182

**Controls on depositional cyclicality: interplay of
global and local processes in
the Canterbury Basin, New Zealand**

NSF Org OCE

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Award Number 0221182

Award Instrument Standard Grant

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OCE DIVISION OF OCEAN
SCIENCES

GEO DIRECTORATE FOR
GEOSCIENCES

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NSF Program 5720 OCEAN DRILLING
PROGRAM

Field Application 0204000 Oceanography
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Abstract

Award is for a project to analyze multichannel seismic data acquired in the offshore Canterbury Basin, on the eastern margin of the South Island of New Zealand. Interpretation and mapping of the high resolution multichannel seismic profiles and integration with existing commercial and deep-penetration academic multichannel seismic profiles will allow evaluation of the relative roles of eustasy, tectonics, sediment supply and currents on stratigraphic development. The Canterbury Basin comprises a southern hemisphere counterpart to the New Jersey margin: both representing siliciclastic margins. The analysis will define the 3-D sequence geometries to reveal spatial and temporal changes in sequence geometry, and evaluate the relative importance of local versus global controls by using forward stratigraphic modeling to reproduce observed geometries.

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