



## **NSF Award Abstract - #0405726**

### **Collaborative Research: Sediment Dynamics on the Actively Deforming Waipaoa Continental Slope: An Examination of A Dispersal System Sink**

**NSF Org** OCE

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**Program Manager** Bilal U. Haq

OCE Division of Ocean Sciences

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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**

The proposed work will focus on the continental slope of the MARGINS' Source-to-Sink focus site offshore Waipaoa with three broad questions in mind: 1) whether the main depocenter has changed during the late Holocene; 2) are sediment gravity flows a significant mode of dispersal, and thus do tectonic features on the margin serve as conduits; and 3) does active intra-slope sediment redistribution overwhelm the large terrestrial input signals. The project will conduct a Chirp seismic survey and obtain cores, augmented by existing multibeam data. Sediment accumulation and

mixing rates will be studied with short half-life radio-nucleides.  
Tephra layers may also provide critical chronology.

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