

A proposal to measure diffuse spectral reflectance of southern ocean sediments: a high resolution pilot study

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Dear Wally,

I'd like to request \$6,000 from the Climate Center to fund a pilot study of the diffuse spectral reflectance of southern ocean sediments. Spectral reflectance measurements provide a rapid, non-destructive means of assessing sediment mineralogy. Published results (and my own work in progress on North Atlantic sediments) demonstrate this instrument provides accurate estimates of percent CaCO_3 , and is sensitive to the presence of oxyhydroxides such as hematite and goethite.