**Evaluation of Hyperspectral Airborne PRISM Imagery in the Coastal Ocean**

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The NASA/JPL airborne Portable Remote Imaging SpectroMeter (PRISM) was developed to address measurement challenges of the optically complex coastal and inland water environments. PRISM is a push-broom spectrometer (350-1050nm @ 2.83nm sampling) with high signal-to-noise ratio (500 at 450 nm), low sensitivity to polarization (<1%), and high spectral uniformity (> 95%). The objective of this study is to evaluate the performance of PRISM in the coastal ocean, such as its utility for discrimination of phytoplankton functional types using the Phytoplankton Detection with Optics (PHYDOTax) algorithm. Results presented are from the April 2014 field campaign of Monterey Bay.