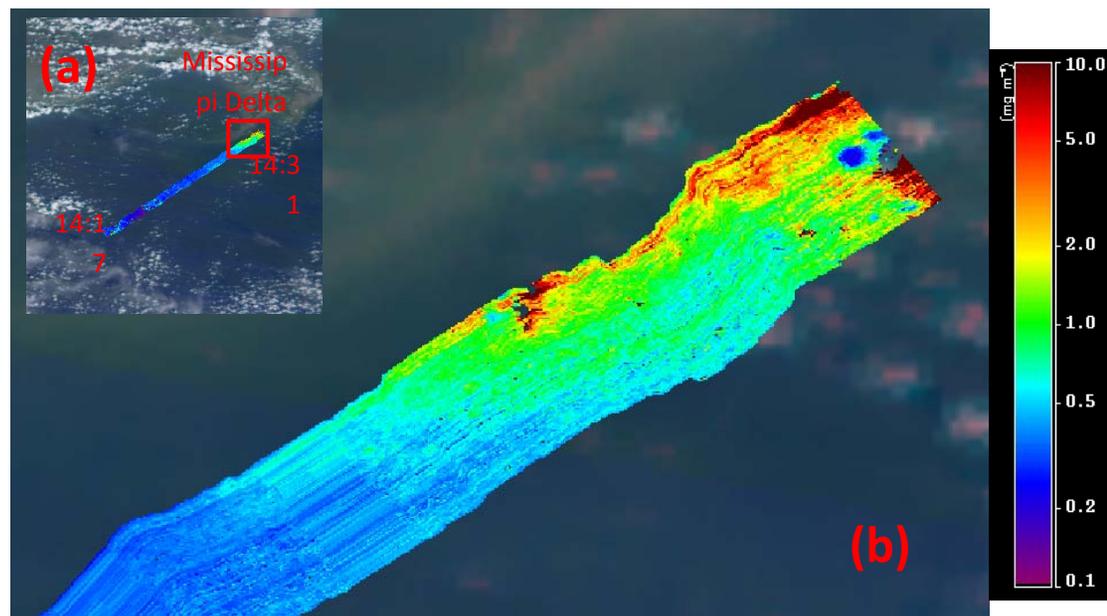


Hyperspectral airborne GCAS ocean color retrievals

Goal: Derive georeferenced hyperspectral ocean color data products, including: surface remote sensing reflectance, chlorophyll a concentration (empirical and analytical, and other bio-optical products)

Approach: Take georeferenced and radiometrically calibrated L1B GCAS data as input, perform customized vicarious calibration and atmospheric correction, validate the derived surface reflectance using concurrent shipboard measurements, and apply existing inversion algorithms to derive data products

Deliverables: Data products in HDF files. **Co-Investigator in charge:** Chuanmin Hu, USF



(a) A segment of GCAS hyperspectral data collected off the Mississippi Delta on 10 September 2013. A portion of the image, outlined by the rectangular box, is shown in (b) with full resolution (14 m cross track by 85 m along track). Note some artifacts due to cloud shadows and cross-track striping, which will be corrected with improved processing.