

High resolution spectral data from the ISS Hyperspectral Imager of the Coastal Ocean (HICO) system has been used to map the spatial distribution of selected water quality indicators for four Florida Gulf Coast estuaries from 2010-2012. HICO is the first hyperspectral imager specifically made for the environmental characterization of the coastal ocean from space. Using atmospherically-corrected hyperspectral HICO imagery and a comprehensive field validation program, data products were derived to estimate basic water quality properties traditionally measured by environmental monitoring agencies. To provide data access by stakeholders and clients, a prototype smart phone application was also developed for both the android (most stakeholders) and Blackberry operating systems (standard for EPA Regional and Program Offices). The application was optimized, tested, and demonstrated for the delivery of HICO data products to EPA clients. Application development included HICO imagery downloads, user registration, data sub-setting, and imagery/map data backdrop development. A series of geographic location chips was developed for each estuary to support rapid georeferencing and reprojection of HICO data products. A series of map/image backdrops was also developed for each estuary to support rapid assembly of HICO data products for smart phone dissemination. Examples of HICO imagery, data products and applications as viewed on the mobile application will be presented. The information presented will assist stakeholders in sustainable management practices and inform the general public about water quality conditions.