Hyperspectral Hyperion Images and Spectral Libraries of Agricultural Crops

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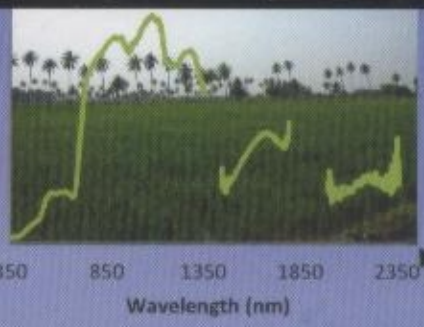

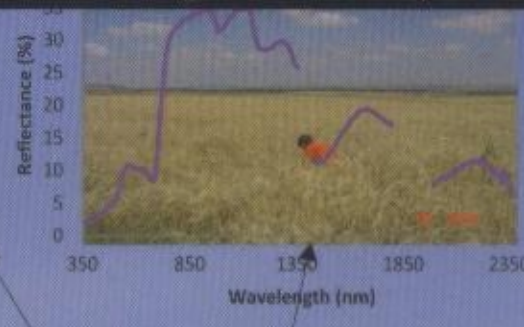

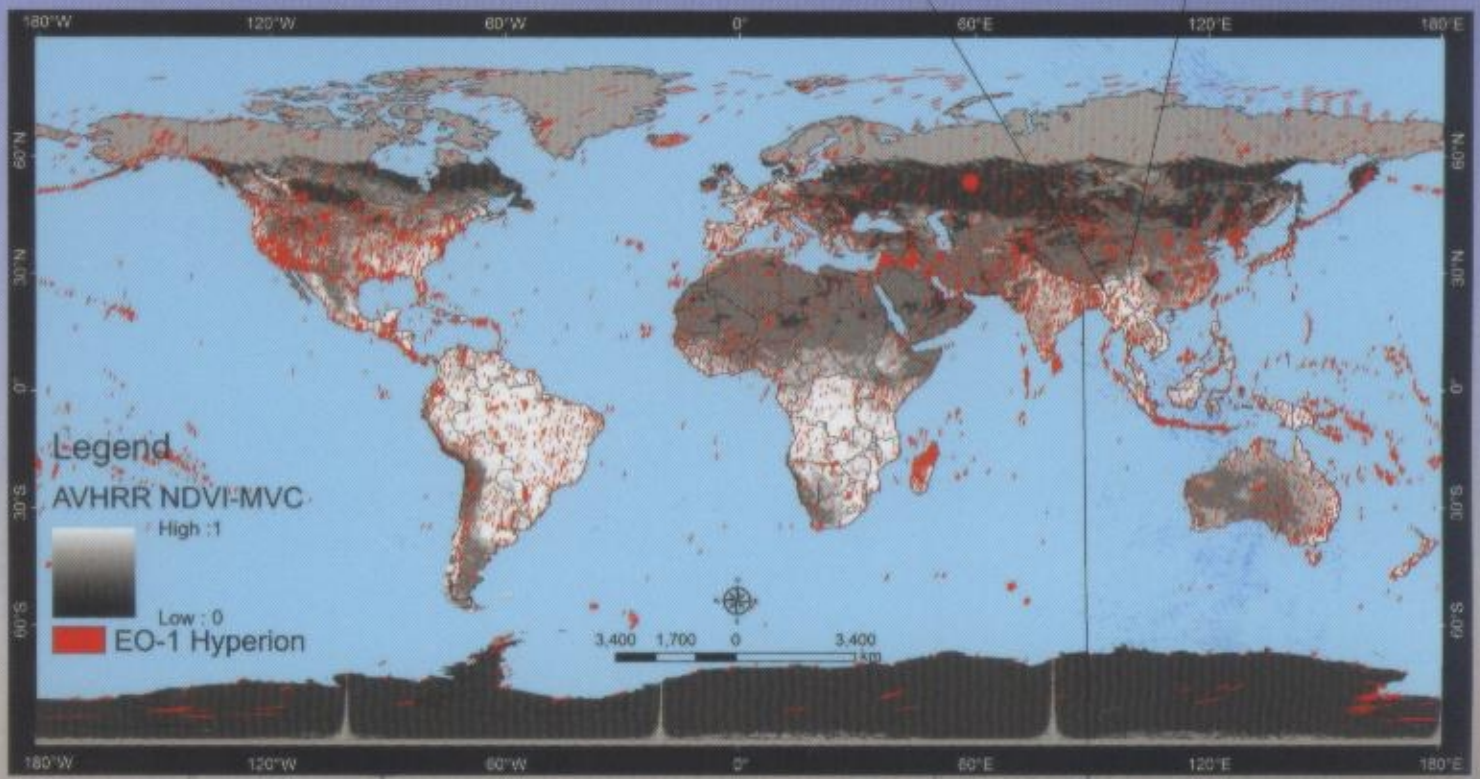

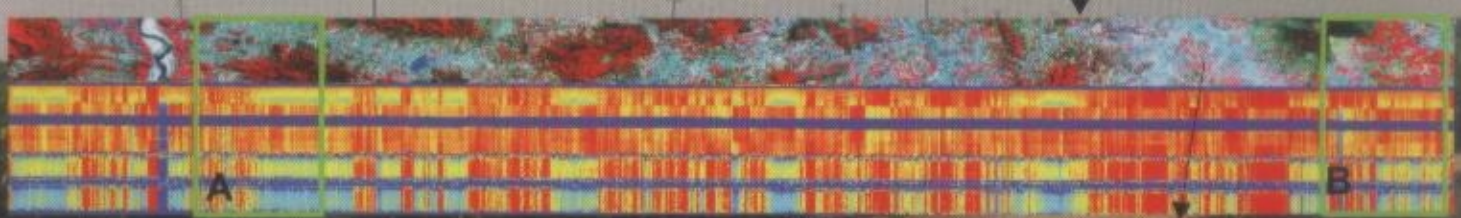

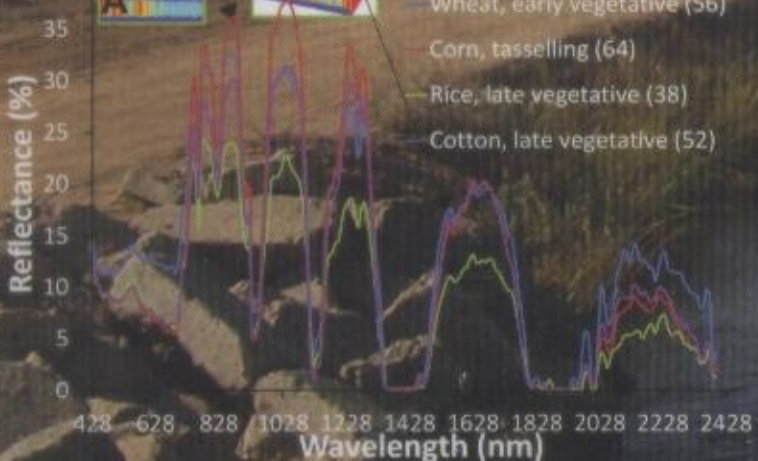

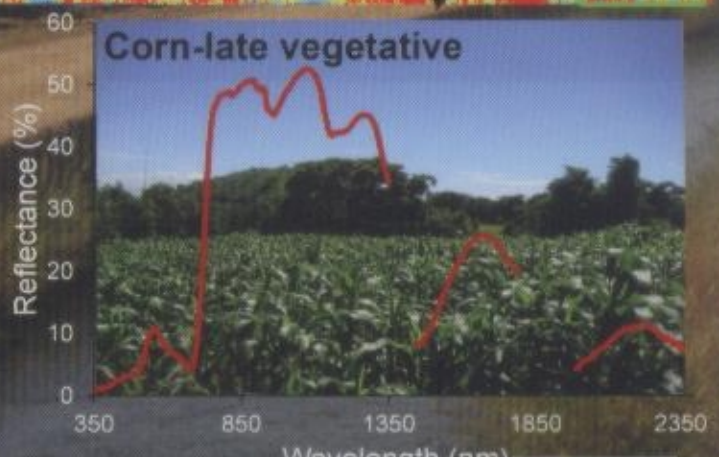

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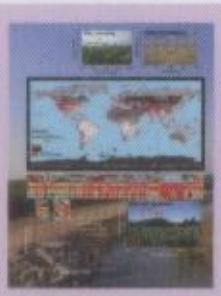
COLUMNS

ANNOUNCEMENTS

DEPARTMENTS



"Hyperspectral Hyperion Images and Spectral Libraries of Agricultural Crops" is the theme of this month's special issue. Global image on the cover page shows the location of ~ 64,000 Hyperion sensor (onboard Earth Observing-1 or EO-1, http://eo1.usgs.gov/ satellite) acquired images during years 2000-2013. Each image is 7.5 km by 180 km, 242 bands, and 10 nm narrow bandwidth acquiring data in 400-2500 nm spectral range. Images are freely available at: http://earthexplorer.usgs.gov/ Cover page also shows a sample Hyperion image data cubes for an area within the Krishna river basin, India. Typical crop spectra derived from Hyperion images for some of the leading world crops, at certain phenological growth stages, are depicted in bottom left. Hyperspectral signatures of crops shown with photos in the background are gathered using a hand-held spectroradiometer. For details read the Highlight article in this issue.

Cover page credits: Dr. Prasad S. Thenkabail, U.S. Geological Survey (USGS), Dr. Murali Krishna Gumma, International Center for Research in the Semi-arid Tropics (ICRISAT), Dr. Pardhasaradhi Teluguntla, U.S. Geological Survey (USGS) and Bay Area Environmental Research Institute (BAERI), and Mr. Irshad A. Mohammed, ICRISAT. Contact: pthenkabail@usgs.gov or thenkabail@gmail.com.

HIGHLIGHT ARTICLE

INTERVIEW

SPECIAL ISSUE FOREWORD

PEER-REVIEWED ARTICLES