Wednesday, October 10
Poster Session 3
16:00–18:00

Poster 15

AUTOMATED PROCESSING AND UNCERTAINTY ESTIMATION FOR SEA LEVEL HYPERSPECTRAL RADIOMETRIC DATA FOR SATELLITE VALIDATION

A network (WATERHYPERNET) of automated hyperspectral radiometers is being set up to provide water reflectance measurements in the visible and near infrared bands for the purpose of satellite validation. The system consists of two TriOS RAMSES hyperspectral radiometers (one radiance and one irradiance) making measurements over a range of azimuth and zenith angles, using a sun-tracking instrument pointing package. Data will be transmitted to shore daily and processed and web-distributed automatically and in near-real time for integration in satellite mission validation analyses. This work will present an automated, end-to-end data processing methodology to provide hyperspectral radiometric data, including uncertainty estimates for every data value (wavelength), for the purpose of satellite validation.

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