## The EnMAP L2A processor

Authors: M. Langheinrich, R. de los Reyes, M. Bachmann

Within the EnMAP Ground Segment Processor, the EnMAP L2A Processor performs the specific steps required for the atmospheric correction of orthorectified top-of-atmosphere (TOA) radiance data to produce bottom-of-atmosphere (BOA) land and water surface reflectance values.

Depending on the user's configuration, these values can be delivered in three different flavors: the land reflectance (remote sensing reflectance) product as provided by the L2A land processor based on the DLR internal atmospheric correction software PACO; water reflectance (normalized water-leaving reflectance, subsurface irradiance reflectance) products as provided by the L2A water processor based on the MIP atmospheric correction algorithm developed by EOMAP GmbH; a combined product that fuses the results of the two different processors.

The presentation aims to provide users with detailed information on the EnMAP L2A user products from the developer's perspective. Specifics of the L2A processor outputs will be addressed, clarifying different representations of land and water reflectance, provided ancillary data, and other characteristics of the spectra induced by processor design.

A number of application examples will be shown for each of the L2A user products, highlighting the benefits and capabilities of each product and of EnMAP hyperspectral data in general.