Thursday, October 11
Poster Session 4
10:30–12:00

Poster 188

VALIDATION OF OCEAN COLOR SATELLITE PRODUCTS AND SERVICES AS PART OF THE DATA CUBE SERVICE FOR COPERNICUS PROJECT (DCS4COP)

The overall objective of DCS4COP project (EU-H2020, 2018-2020) is to set-up, demonstrate and establish a novel DataCube service for the value-adding Earth Observation industry at highly competitive costs. The specific objectives are (1) to provide a novel service to intermediate business users, (2) to exploit the scientific excellence of precursor projects, (3)To develop and establish a DataCube environment for Copernicus data, and (4) to exploit European EO infrastructure. Today, ocean color observations represent one of the most used tools in oceanography. Satellite products are available are at hourly, daily, monthly, seasonal and annual temporal resolutions and now at spatial resolutions (20-300-1000 m) well adapted for the operational monitoring of coastal waters). In DCS4COP the DataCube service will be available in several European coastal areas. It combines autonomous field measurements, satellite observations together with outputs from physical and biogeochemical models. From these datasets key DataLayers such as SST, turbidity, concentrations of chlorophyll-a and the total suspended matter will be generated, quality controlled and re-projected to a common grid to facilitate ingestion into the Data Cube. The validation of each DataLayer will be done using validation protocols designed during the HIGHROC project (www.highroc.eu) for ocean color satellite products. It is based on numerous high-quality match-ups between autonomous field data and satellite products in various European coastal waters.

Renosh Pannimpullath Remanan, Sorbonne Université, CNRS, LOV, pr.renosh@gmail.com, https://orcid.org/0000-0001-5075-6744
David Doxaran, 1Sorbonne Université, CNRS, LOV, doxaran@obs-vlfr.fr
Kai Sørensen, NIVA, kai.sorensen@niva.no
Gunnar Brandt, Brockmann Consult GmbH, gunnar.brandt@brockmann-consult.de