

On February 16th 2016 the Sentinel-3A satellite (S3A) was successfully launched into orbit by the European Commission's (EC) Copernicus program and entered the commissioning phase. This 5-month phase is dedicated to verification of L1 products and a preliminary quality assessment of L2 products. On board the S3A, the Ocean and Land Colour Instrument (OLCI) will be the first Ocean Colour instrument to provide users with global coverage at 300 m resolution. The present work aims at contributing to the initial assessment of OLCI L2-water products validity and quality by means of a combined validation data set of radiometric measurements built with mooring and ship observations at the BOUSSOLE site in the NW Mediterranean Case I waters and from a profiling float deployed in the same area.



BST

<

FLOAT

MOORING

BOUSSOLE mooring (left The picture) is permanently deployed in the Case I waters of the NW (43°22'N, Sea Mediterranean 7°54'E, 2240 m depth).

Radiance reflectance (ρ_w or ρ_{wn} after normalization) data shown here were derived from a set of Satlantic HyperOCR radiometers mounted at surface (Es), 4 m and 9 m depth (Lu).



First results of OLCI evaluation at the end of the commissioning phase over the BOUSSOLE area are promising. Improved performances are expected after the System Vicarious Calibration will be accomplished.



FIRST VALIDATION OF SENTINEL-3A OLCI PRODUCTS USING A COMBINATION OF MOORING, PROFILING FLOAT AND SHIP OBSERVATIONS Vellucci V.^{1,@}, Antoine D.², Leymarie E.¹, Gentili B.¹, Golbol M.¹, Lerebourg C.³, Bourg L.³ ¹ LOV, CNRS-UPMC - Villefranche-sur-Mer, FR; ²RSSRG, Curtin University - Perth, AUS; ³ ACRI-ST, Sophia Antipolis, FR; [@]enzo@obs-vlfr.fr

- The ProVal (left picture) is a new float (based on PROVOR CTS5, NKE) equipped with 2 Satlantic OCR-500 combos (Ed+Lu at 7 λ: 400, 412, 443, 490, 510, 560, 665 nm).
- No deployment was possible in the S3A commissioning phase. Here we show a comparison from test deployments close to BOUSSOLE.







Discrete water samples were collected during BOUSSOLE monthly cruises close to the mooring. [TChl-a] through HPLC measured was analyses.

Two OLCI images were available with concurrent [TChl-a] data and shown on the figures on the left along with in situ and satellite match-up values. Note that the OC4Me global algorithm is used for OLCI which is known to overestimate [TChl] in the Mediterranean Sea at low concentrations.

