

OCEAN OPTICS XXIV

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<https://oceanopticsconference.org>

Tuesday, October 9

Poster Session 2

10:30–12:30

Poster 162

EXPLOITATION OF LARGE IN SITU DATABASE OBSERVATIONS TO SUPPORT CROSS QUALITY CONTROL AND CONSISTENCY ASSESSMENT WITH OCEAN COLOUR

The European Copernicus programme provides a unique opportunity of accessing under the same umbrella to satellite ocean color data from Sentinel-3A and 3B (through the Ocean Colour Thematic Assembly Centre – OC-TAC) and coincident in situ data from various observation campaigns worldwide. This opportunity has been exploited in the frame of CMEMS activities to do cross-calibration from one dataset (EO-based) to the other one (in-situ based). This exercise does not intend to provide validation of one dataset compared to the other since for many data, the final accuracy is not well known. It is, instead, being use for quality assessment and data flagging. For instance we compare Chlorophyll-a surface concentration derived from Ocean Colour and its proxy derived from in situ fluorimeter (both of them potentially impacted by different sources of uncertainty). A methodology has been derived to systematically compare in situ and EO datasets and to provide recommendations on flagging strategy to apply on each of the dataset. This was done in the context of the European H2020-Atlantos project. It has been further exploited in the context of the Copernicus Marine Service. The results of both exercises will be presented at Ocean Optics XXIV.

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