

Interactive comment on "The CMEMS GlobColour Chlorophyll-a Product Based on Satellite Observation" by Philippe Garnesson et al.

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Please see the figure and the supplemnt attached.

Please also note the supplement to this comment: https://www.ocean-sci-discuss.net/os-2018-155/os-2018-155-AC1-supplement.pdf

Interactive comment on Ocean Sci. Discuss., https://doi.org/10.5194/os-2018-155, 2019.

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Dear Referee, Please find our comments/responses in blue in your text. We have also attached a new release of the article. This a major revision of the initial article: the form has been changed, the assertion are better argued. Most of the figures have been also reviewed. Thank you for your useful comments. Philippe Garnesson on behalf of co-authors. Anonymous Referee #1

This article presents the new version of the GlobColour product delivered by ACRIST within the CMEMS. As this GlobColour Chlorophyll-a (Chl-a) product has a global coverage and provides retrievals in coastal waters this manuscriot can be of interest for manu current and future users of satellite-derived products.

Chia in this new GlobColour product is derived from two algorithms: the Color Index of NASA for clear waters (Chia s o. 1.5 mg m-3) and the CS algorithm of lifemer for water where Chia is superior 10.2 mg. and a construction of the CSC disposition of the construction of the CSC disposition of the construction is clearly made by the authors: the GlobColour processing chain provides a Level 3 Oils and its among product chained from monon-sensor Chia whilst the Level 3 Chia of CSC disposition of the construction of the cons

The OC-CCI approach is similar to that of the Mediterranean Product Unit of CMEMS described in Volpe et al. (Ocean science, accepted.) Targeting directly Chl-a, the GlobColour processing can theoretically and practically be adapted more quickly to the modification of the products of any single sensor (following the reprocessing by the Agencies) whilst this task is more difficult to achieve through the complexity of the and switch and hand correction operated in the OC-CL approach. However as pointed out by Volpe et al., the band merging approach has the advantage of providing a homogeneous dataset of spectral reflectance from which can be derived, in full consistency for the long term, different environmental parameters, amongst them Chl-a but also light attenuation, Kd, Suspended Particulate Matter,

Yes, we fully agree with Volpe, and "line 16, section 2.1", it was indicated <<th>approach is theoretically very attractive>> but the promising consistency supposed the input reflectances are consistent. We add a paragraph to discuss advantages and drawbacks underlined by Volpe in part 3.1 (p. 4, lines 19-23).

The authors discuss different issues encountered in the near real-time and long term processing of Ocean Colour data and some interesting illustrations are provided on the effect of the drift of Rrs in flight and the