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Interactive
comment

Interactive comment on "**A compilation of global bio-optical in situ data for ocean-colour satellite applications**" *by* **A. Valente et al.**

A. Valente et al.

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Dear Referee #1,

Thank you very much for the comments provided. We have addressed all the comments as shown below.

Referee #1,

General comments

Comment: This study integrates most of global high quality ocean-color in-situ datasets, and enables the compiled dataset to be widely used. It includes integration of parameter definition and the file format with original information as much as possible. I think this work has significant contribution to enable the ocean color community to use

the same database for comparison among satellite ocean color algorithms including IOP models, and improve the interoperability among the different satellite datasets. It is out of the scope of this paper, however, it might be beneficial that there is a way to add the new datasets which will be acquired in the future, if possible.

Response: In regard to the possibility of adding new data in the future, the ESSD uses a 'living data' process (http://www.earth-system-science-data.net/living_data_process.html) to support evolving data sets. Thus the published datasets at ESSD are not static and can be updated with regular increments.

Specific comments

Comment: Table 1 - Variable tag name should be consistent to the data file. They are written as follows in the dataset, "Date/Time Latitude Longitude Depth water [m]..". "Depth water " should be included in Table 1.

Response: "Depth water " was included in Table 1.

Comment: Figure 10 - Can authors show the difference of the data source by dot's color (as same color with Fig. 8) if possible?

Response: Figure 10 was changed to show the difference of data source by dot's color using same colors as Figure 8.

Interactive comment on Earth Syst. Sci. Data Discuss., doi:10.5194/essd-2015-37, 2016.