Earth Syst. Sci. Data Discuss., author comment AC2
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Reply on RC1

André Valente et al.

Author comment on "A compilation of global bio-optical in situ data for ocean colour satellite applications – version three" by André Valente et al., Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2022-159-AC2, 2022

Thank you very much for the comments. Please find below the responses to each of your comments.

Comment 1

This is an important effort because this kind of database will contribute to validate various ocean colour products and improve their interoperability. The continuous update is also meaningful.

Response

Thank you

Comment 2

In this revision, aph was especially increased and the grids of wavelengths became increased. I've read the data files and operated them, and did not have any problem.

In the operational point of view, it was not easy to read the increasing text table (e.g., about 1000 columns for Rrs and 2500 columns for IOP), so I hope it will be stored by NetCDF (or other better ways) in the future version.

Response

Regarding the data format, we have chosen to keep the CSV format, as it has allowed for a wider range of users to manipulate the dataset, as many users still cannot manipulate other types of files, such as NETCDF files. The recommendation of changing the data format to NETCDF in future versions will be considered.

Comment 3

I just find a minor mistypo:

Figure 2: unit of rrs seems wrong: m^-1 should be sr^-1

Response:

The typo in Figure 2 will be corrected in the revised version of the manuscript.