

Interactive comment on “Diversity II water quality parameters for 300 lakes worldwide from ENVISAT (2002–2012)” by Daniel Odermatt et al.

Daniel Odermatt et al.

daniel.odermatt@eawag.ch

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Author response:

Dear referee,

Thank you very much for your interest in our manuscript and your valuable comments. We are quite concerned not to make unjustified claims, and appreciate an external opinion on them.

1) The full statement is “The Diversity II dataset is the first globally representative, temporally resolved and methodologically consistent information source for inland water quality dynamics from satellite Earth observations.” We chose this phrase because we pointed at the work by Sayers et al. (2015), who was obviously the first to publish a

global snapshot. We completed the upload of our products to Pangaea in February 2017, and submitted the present manuscript in January 2018. We have communicated our project progress within the scientific community since 2012. We announced the present discussion, among other channels, through the GEO Water Quality initiative (<https://www.geoaquawatch.org/news-events/>), which is the largest group of specialists in the field of water quality remote sensing. We never received a hint on a comparable dataset there or elsewhere. Therefore, we think our claim is well justified. Of course we would change it if you could point at a relevant source.

2) In our opinion, 'state-of-the-art' is a relatively wide term, which can simultaneously apply to several methods, in particular when methodological consolidation is as weak as in our field. Therefore, we don't consider the use of this term critical, but we could replace it with a different attribute, e.g. "widely used and validated by several independent users" if the reviewer's concern persists. Concerning the conceptual assumptions for each algorithm we agree that more detail will be of interest for the users and are happy to revise and expand chapter 6.2 accordingly.

3) The DINEOF-based LSWT products we included are adopted from the ARC-Lake database, where a variety of product versions are available, including the actual observations. We will insert a remark to point this option out to potential users, and therewith address your worthwhile request.

Best regards, The authors

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Discussion paper

