

Interactive comment on “The Hamburg Ocean Atmosphere Parameters and Fluxes from Satellite Data – HOAPS-3” by A. Andersson et al.

Anonymous Referee #2

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The paper is of high interest to the observational and modeling community as it thoroughly describes the HOAPS data set, which is becoming a standard for ocean-atmosphere interaction studies. The authors succeed in describing the data set structure in all its parts and make a good job in pointing to pros and cons. The manuscript is well written and completely within the journal scope. It certainly deserves publication as an original scientific contribution. However, a comment needs to be considered by the authors together with a small number of minor revisions, which would improve the text (see below).

Comment on the precipitation algorithm. It is not entirely clear how the ECMWF-derived training data set of the neural net differs from the 1DVAR verification data set used to derive data in Fig. 13. The authors should clarify that the two data sets are not

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connected, otherwise the very good comparison between the HOAPs and the 1DVAR sets would appear somewhat obvious. Maybe I am missing something crucial, but I feel the issue should be tackled and more thoroughly explained in the text of Section 4.6 for clarity sake.

Minor comments

Page 146 Row 19. "The scope of this paper is on the technical description of..." should be "This paper technically describes..."

Page 147 Rows 1-2. The sentence should be better written as "The initial version of HOAPS (...) was mainly based on the algorithms of ... and was first released in 1998." Row 12-13. "...into the atmosphere on climatological scale." should be "...into the atmosphere on the climatological scale."

Page 157 Row 3. "...the effect is weakening..." should be "...the effect weakens..." Row 4. "...an analogues..." should be "...an analogous..." Row 11. "...on the SSM/W pixel level..." should be "...at the SSM/I pixel level..."

Page 159 Row 27. "...as wells as..." should be "...as well as..."

Page 164 Row 22. "...at cases of small precipitation..." should be "...in case of low precipitation rates..."

Page 167 Row 8. What does it mean "previously approved retrievals"? Approved by whom?

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