

Interactive comment on “The PERSIANN Family of Global Satellite Precipitation Data: A Review and Evaluation of Products” by Phu Nguyen et al.

Phu Nguyen et al.

ndphu@uci.edu

Received and published: 3 July 2018

Reviewer #1: The manuscript "The PERSIANN Family of Global Satellite Precipitation Data: A Review and Evaluation of Products" by Nguyen Phu et al. meets the scope of the journal and is thus worth considering for publication pending some modifications. The paper is needed because the PERSIANN family of satellite-derived precipitation products has considerably increased since the first product was made available some time ago. The end users thus experience a bit of difficulty in using the right product for their own purpose. Therefore, the need for a paper that tells the whole story with some clear numbers. Here are my comments on the present version of the manuscript:

C1

We greatly appreciate your comments and suggestions which we believe will result in a much-improved version of the manuscript. The manuscript has been revised according to some of your comments while incorporation of other comments is in progress.

1) A more thorough discussion on the differences stemming from the analysis of the three products both over CONUS and over the globe seems necessary to me. For example, the relatively large differences found between PERSIANN/PERSIANN-CCS and PERSIANN-CDR are not discussed enough in my view. The authors briefly mention that this is due to the satellite-only character of the two products. However, I think a more thorough discussion would be useful for the reader.

Response: We agree that a more thorough discussion of the analysis results is necessary. The manuscript is currently being revised to extend the discussion and interpretation of analysis results.

2) Given the focus of the journal, also a clearer mention to the potential of the three products for hydrological and Earth science applications would seem appropriate. The authors would help in this way the potential user in choosing the correct products for his/her need.

Response: We thank you for this constructive comment. In the new version, the manuscript includes a discussion about the suitability of each PERSIANN product to different hydrological and water resources management applications taking into consideration their characteristics and the analysis results.

3) The paper is generally written in an acceptable English. However, it needs an accurate proofreading to eliminate language deficiencies that prevent a smooth reading and fast understanding of the concepts. The reviewer started correcting, but soon found out that the errors were far too many. Nothing dramatic, but it is annoying. A language combing is necessary and the authors ought to do it.

Response: Thank you for pointing out to this limitation. These language deficiencies

C2

will be fixed in the revised version.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-177>, 2018.