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Geoscientific Model Development Discussions

Interactive comment on "Efficient ensemble data assimilation for coupled models with the Parallel Data Assimilation Framework: Example of AWI-CM" *by* Lars Nerger et al.

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Dear Dr. Kerkweg, actually, we prepared our original manuscript according to Editorial version 1.1. The new version 1.2 was published just one week before our submission, and we didn't note this update when we submitted the manuscript. Please see below for how we adapt now to the new requirements.

Dear authors, in my role as Executive editor of GMD, I would like to bring to your attention our Editorial version 1.2:

https://www.geosci-model-dev.net/12/2215/2019/

This highlights some requirements of papers published in GMD, which is also available on the GMD website in the 'Manuscript Types' section:
http://www.geoscientific-model-development.net/submission/manuscript_types.html

In particular, please note that for your paper, the following requirement has not been met in the Discussions paper:
"The main paper must give the model name and version number (or other unique identifier) in the title." Please provide the version number for PDAF in the title of your revised manuscript.

Response: Actually, the focus of the manuscript is on the model binding for AWI-CM with PDAF and not about PDAF itself (discussing all features of PDAF would be a different manuscript). To this end we now provide the version number as "AWI-CM-PDAF 1.0". However, in general the scope of the paper is wider as AWI-CM is only used as an example.

Additionally, please note, that GMD is encouraging authors to provide a persistent access to the exact version of the source code used for the model version presented in the paper. As explained in https://www.geoscientific-modeldevelopment.net/about/manuscript_types.html the preferred reference to this release is through the use of a DOI which then can be cited in the paper. For projects in GitHub a DOI for a released code version can easily be created using Zenodo, see https://guides.github.com/activities/citable-code/ for details.

Response: The code availability section was revised. For model binding for

AWI-CM with PDAF, which is the main focus of the manuscript is now available using Zenodo (http://doi.org/10.5281/zenodo.3551667). Actually, the ECHAM-component of AWI-CM underlies license restrictions, so that we cannot make it readily available and hence cannot provide a DOI for it. Also, PDAF is distributed via its own web site.

Finally note, that according to our new Editorial (v1.2) all data and analysis / plotting scripts should be made available.

Response: We now provide the plotting scripts and the output data that is used to generate the timing plots in Figs. 5 and 6 on Zenodo (http://doi.org/10.5281/zenodo.3551675)

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