

Interactive comment on “The Cloud_cci simulator for the ESA Cloud_cci climate data record and its application to a global and a regional climate model” by Salomon Eliasson et al.

Swales (Referee)

dustin.swales@noaa.gov

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This manuscript is well written and introduces a new diagnostic tool, the Cloud_cci CDR simulator, which can be used by both regional and global-scale models to help better understand the role clouds in the climate system. Overall, the manuscript is easy to read, well organized and fits well into the scope of GMD. I feel this manuscript is acceptable for publication, subject to a few minor comments/questions.

Specific comments: P7,L10: Here you mention that you are using SCOPS to generate subcolumns. How many sub-columns are you breaking the domain into, for EC-EARTH, for the RCM? This leads me to my next question. Are you using SCOPS for

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the RCM? As this may not be necessary given the finer horizontal resolution.

Technical corrections: P6,L34: replace “simulator For ERA...” with “simulator for ERA...” P19,L13: replace “EC earth” with “EC-Earth” P21,L10: Here “v2.0” is used which I assume you refer to “Cloud_cci AVHRR-PM v2.0 CDR”? Is there a reason for distinguishing the version here? Just a tad confusing as versions are not mentioned anywhere else when referencing the Cloud_cci CDR.

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