

Interactive comment on “Global and regional estimates of warm cloud droplet number concentration based on 13 years of AQUA-MODIS observations” by Ralf Bennartz and John Rausch

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Received and published: 17 January 2017

There is a strange sentence in the abstract:

"All values are in-cloud values, that is, if the grid box is covered to 10% with clouds, then the reported CDNC value will be valid for the cloudy part of the grid-box. "

As it is written, it means to me:

"If the grid box cloud cover equals exactly 10%, the reported CDNC values are valid for the cloudy part of the grid-box, otherwise they are undefined".

Does it mean

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(A) that you use 10% as a minimum required cloud-fraction somewhere in the algorithm
(Could not find that in section 2.3 where the gridding algorithm is explained)

(B) That you only report in-cloud values all the time, but use 10% as an example of a typical cloud-cover value in that sentence in the abstract? In that case, the sentence could be

"All values are in-cloud values. The reported CDNC-values are valid only for the part of the grid-box which is covered by clouds"

[Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-1130, 2017.](#)

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