**Interactive comment on** “Why CO$_2$ cools the middle atmosphere – a consolidating model perspective” **by H. F. Goessling and S. Bathiany**

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I would like to thank everyone for the constructive discussion along this article. As noted by the reviewers and acknowledged by the authors, the ambition with this article is mainly to bring an educative prospective on a process that is well understood by specialists. Such objective may be a little bit unusual for Earth System dynamics, but the approach of the authors is nevertheless original and the case that the article brings added value is convincing. It should therefore be published once the different remarks have been addressed by the authors.

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