

Interactive comment on “First description and classification of the ozone hole over the Arctic in boreal spring 2020” by Martin Dameris et al.

Martin Dameris

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Short reply to Ingo Wohltmann (reviewer)

Dear referee, dear Ingo,

Thank you very much for your detailed review and the specific comments regarding our manuscript. Your statements and suggestions are highly appreciated and will definitely help to improve our manuscript, especially with respect to the communication of our scientific results. We will consider them in the revised version of the paper. A detailed response to your comments will be submitted with the revised version. For now, we mainly reply to your “Important remark”:

Our manuscript was prepared in May for submission to ACP and in the meantime we
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recognized the announcement of the JGR/GRL special issue on the winter 2019/2020. Since ACP is our favored scientific journal we decided nevertheless to submit the manuscript to ACP on June 9, 2020. Due to a major misunderstanding this draft of the paper was not accepted for ACPD. After a longer period of clarification (due to out of office periods and various delayed responses) regarding the misunderstanding, the paper was resubmitted with consent of the Editor on July 21, 2020. Unfortunately, despite our efforts and the clarification of the misunderstanding, we were told that it is not possible to keep the first registration number and hence the submission date shows July 21, 2020. None of the listed manuscripts (in the beginning of your report) have been accepted before June 09, 2020 and only one of the papers (Manney et al.) was available on this day. In fact, if I am correct, the Manney et al. study was first published online on this very date. Because of this, we have not been able to refer to the papers of the JGR/GRL special issue during the time of writing our paper.

In the meantime we also have seen these manuscripts in the special issue of JGR/GRL and we will definitely refer to these papers in the revised version of our paper when appropriate. We think that our paper shows interesting points based on our analyses (in particular using the TROPOMI data), which are in line with the results presented in the mentioned papers, e.g. by Manney et al. or by yourself.

In summary: (1) we will consider the points of your detailed review, (2) we will refer to the (accepted) papers of the JGR/GRL special issue, and (3) we will set the results of these papers into context with our findings in a revised version of our manuscript.

Best regards, Martin

Interactive comment on *Atmos. Chem. Phys. Discuss.*, <https://doi.org/10.5194/acp-2020-746>,
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