

**Response to editor:**

The editor' original comments are shown in **red**. Our replies are shown in **blue**.

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**Dear Dr. Jiang and co-authors,**

thank you very much for your detailed revisions and replies. Before final publication of your manuscript in ACP, there is one sentence in the text, I kindly ask you to clarify. In lines 422/423 you write "... , but the average magnitude of convective transport is about one order smaller than that of chemistry." This sentence sounds a bit "odd" as if you compare apples with eggs (convective transport with chemistry). Which quantity do you refer to? What do you mean with "chemistry". Please clarify this sentence.

**Yours,**

**Patrick Jöckel**

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**Dear editor,**

Thanks for pointing out this problem. We now revised this sentence to make it clear.

*[Main text, Lines 422-423]:*

*....., but the average change of ozone budget due to convection transport is about an order of magnitude smaller than that due to chemical processes.*

**Yours,**

**Zhongjing Jiang**