

## ***Interactive comment on “Clear sky UV simulations in the 21st century based on ozone and temperature projections from Chemistry-Climate Models” by K. Tourpali et al.***

**K. Tourpali et al.**

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Response to the comments of Reviewer #3

We would like to thank the reviewer for the valuable comments and suggestions. We have taken into consideration all comments of the reviewer in the revised manuscript. In the following we provide our responses to specific comments. As numbering of the comments was not straightforward, we repeat the reviewer’s comments (marked as RC):

RC: Title: Please re-formulate as already suggested by Referee 1: . . . simulations for the 21st century . . .

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This has been done in response to the reviewer's comment. Please see the revised manuscript

RC: Text: Many statements are awkwardly formulated and unclear or at least difficult to understand.

The text has been checked for language flaws and we have addressed all specific comments of the reviewer. Hopefully the text reads better now.

RC: Figures: Honestly, the presentation of the figures is unacceptable for a scientific journal: missing axis notations, use of plural in axis notation, use of indistinguishable colors within the same graph, figure captions that are inconsistent with what seems to be shown. All figures and captions need to be thoroughly revised.

Figures have been redrawn taking into account the reviewer's comments

RC: Figure Captions: Please make all figure captions self-explanatory and use precise wording/terminology.

Figure captions have been rewritten taking into account the reviewer's comments

RC: Caption to Fig.1: "The black line represents the model average." Please be more specific. From the text I understand that the average refers to the time period 1996-2005, is this correct?

No, the black line represents the average of the relative changes from all models. The caption has been revised accordingly.

RC: Please clarify if the meaning of the term "changes" used in the caption of Fig. 4 (again without the appropriate attribute "relative") is different than the meaning of the term "departures". If not, I would recommend using the same term (preferably "relative deviation") throughout the manuscript.

We have homogenized the text using throughout the term "relative changes", instead of "relative deviations", because we feel that it describes better our findings.

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RC: Please move the long text from the top of the figures into the caption, and/or make it consistent with the formulation of the caption (models = members?).

We have moved most of the text in the caption.

RC: Table Caption: Why should the reader see Eyring et al. (2007) for references?

We have removed this sentence from the caption, as the references are already listed in the table.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 13043, 2008.

**ACPD**

8, S9629–S9631, 2008

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