

Reply to editor's comments on "A Moist Quasi-Geostrophic Coupled Model: MQ-GCM2.0," by Kravtsov et al.

Dear author,

Thank you for the new version for the manuscript that globally addresses the remarks of the referees. But there are still the following issues I ask you to resolve before considering the paper for publication.

Thank you for considering those comments,

With best regards,

Sophie Valcke

Dear editor,

Thanks for your comments, which we addressed in the revised version of the paper. The specific replies follow.

Best regards,

Sergey Kravtsov and co-authors

Specific comments/Replies

First, your « data availability » section is still not right. In your reply to Juan A. Anel, you write: "MQ-GCM model is uploaded to Zenodo and DOI is <https://doi.org/10.5281/zenodo.5250828>. Also, the model's code is now under GNU General Public License v3.0 or later." But you did not change the « data availability » section accordingly in your manuscript. Please do so.

[These lines have now been added at the start of the data availability section.](#)

Then regarding the second remark of reviewer 2, I don't know if placing a bar on $k=1,3$ is a standard way to express that the equation applies for $k=1$ to $k=3$? Wouldn't $k=[1,3]$ be clearer ? In all cases, you have to clarify this at line 133; writing explicitly "with $k=1$ to $k=3$ " would remove any ambiguity. Please adapt the text.

[We've changed the notations in both sets of equations to \$k=1,2,3\$ to avoid the potential confusion.](#)

Finally, following a comment from the previous editor, shouldn't « involved » be changed for « evolved » at line 515 ?

[We believe the current version with the term "involved" is correct \(at least that's the meaning we intended\), please see below the excerpt from a dictionary:](#)

in·volved| in'vɒlvd, in'vɔlvd | adjective — difficult to comprehend; complicated: *a long, involved conversation.*