

***Interactive comment on “Impacts of the Horizontal and Vertical Grids on the Numerical Solutions of the Dynamical Equations. Part I: Nonhydrostatic Inertia-Gravity Modes” by Celal S. Konor and David A. Randall***

**P. A. Ullrich (Editor)**

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Dear Drs. Harris + Chen,

Thank you for your short comment on this manuscript. I am very interested in resolving this apparent contradiction with regards to the analysis of the C-D grid. It has now been claimed by Anonymous Review #2 that the analysis is consistent with the formulation described in Harris and Lin (2013). In the interests of ensuring the correctness and consistency of the manuscript, it would be immensely helpful if you could point out the

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revisions needed to equations (32)-(42) to render them consistent with the formulation in the FV3 dynamical core. This would be further helpful in ensuring no apparent misinformation about the C-D grid was propagated as a result of this analysis.

Your assistance on this matter would be greatly appreciated.

~ Paul Ullrich

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Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2017-234>, 2017.

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