

Interactive comment on “Verification of a non-hydrostatic dynamical core using horizontally spectral element vertically finite difference method: 2-D aspects” by S.-J. Choi et al.

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We appreciate your consideration for improving the manuscript. Please find a response to your comments.

Is auxiliary fig results from a resting atmosphere test case?

=> All results of the density current experiment are obtained in a resting atmosphere condition. This will be mentioned in the revised manuscript.

Please mention in the revised manuscript that further work will be needed to implement
C1432

diffusion on horizontal surfaces.

=> We will add a discussion about the diffusion issue in the revised manuscript.

Some additional comments from Referee 2

=> We acknowledge our misunderstanding. We will revise accordingly in this time.

Interactive comment on Geosci. Model Dev. Discuss., 7, 3717, 2014.