

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.

H. Weller (Editor)

h.weller@reading.ac.uk

Received and published: 10 June 2014

You explain clearly the motivation for using finite differences in the vertical, for coupling with existing physics packages. However I would also be interested to see if there are any problems with this technique, particularly if the direction splitting is less clear cut over steep orography. I would therefore like to see results of test cases with steeper orography, such as a resting stratified atmosphere over a steep hill, gravity waves over hills such as those described by Schar et al, MWR, 2002 and tracer advection over steep hills.

C888

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