

Interactive  
Comment

# ***Interactive comment on “Direct numerical simulations of particle-laden density currents with adaptive, discontinuous finite elements” by S. D. Parkinson et al.***

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There is also the point that the uniform resolution FD model produced (possibly) similar accuracy using the same number of DOFs but without local refinement. So it appears to be more accurate in regions where the FD  $dx$  is lower than your enhanced  $dx$ . Would you agree that this FD model appears to be more accurate for the same  $dx$ ? Or do you think you could produce similar results for a much lower dof count?

Interactive comment on Geosci. Model Dev. Discuss., 7, 3219, 2014.