

The manuscript "Adding Four Dimensional Data Assimilation by Analysis Nudging to the Model for Prediction Across Scales - Atmosphere (Version 4.0)" provides a description of the implementation of a nudging scheme into the MPAS model and provides results from an experiment testing this scheme by assimilating synthetic observations from a target field into the MPAS model state.

The manuscript is well-written and provides a detailed description of the implementations, experiments and results. Two of my three major issues as well as all of my minor comments with the first version of the manuscript have been addressed while the other major issue has been discussed to my satisfaction in the response by the authors. I find the manuscript to be much improved and I have no further issues regarding its publication. I therefore recommend "accept as is" for the manuscript.