

Interactive comment on “A Radar Reflectivity Operator with Ice-Phase Hydrometeors for Variational Data Assimilation (RadZIceVarv1.0) and Its Evaluation with Real Radar Data” by Shizhang Wang and Zhiquan Liu

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I am writing as an executive editor of GMD to highlight issues with the code availability section which needs to be remedied in the revised manuscript.

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Code availability

The model code is absent. WRF is an open source model, so the source code for the exact version of WRFDA presented here can and must be publicly archived for the reference of future readers. Many GMD authors find Zenodo a suitable archive (<https://zenodo.org>). I note that WRF is currently developed on GitHub. GitHub is an excellent development platform, and can be referred to from the code availability section as a preferred download location, but it is not a suitable archive location. A citation of an archived version must be included in the manuscript. This is a hard requirement and the manuscript should be rejected if this is not done.

Data availability

The data used and generated in this manuscript is only available "on request". This is not usually acceptable in GMD (it would only be acceptable if there were no way for this data to be made available). Please ensure that all of the input data, configuration files, and pre- and post-processing scripts required are persistently and publicly archived, and cited from the code and data availability section. The guiding principle here is that a reader should be able to reproduce the paper using only the information referenced. This is also a strong requirement on the manuscript.

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