

Geosci. Model Dev. Discuss., referee comment RC1  
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## Comment on gmd-2021-239

Anonymous Referee #1

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Referee comment on "Enhancing the Accessibility of Unified Modeling Systems: GFDL SHiELD v2021b in a Container" by Kai-Yuan Cheng et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-239-RC1>, 2021

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This manuscript describes implementation of a GFDL unified model (ShiELD) in Docker and Singularity containers. It is generally well presented, and conclusions are supported. The real value of this work is the containerized model that is made open source with the explanation provided in the text. Anybody familiar with container deployment should be able to quickly pick it up and use it in a research or educational context.

Major/general issues: I would have like to see them go a bit further with the Singularity container, and in particular test the bind model. That would make a stronger contribution, but is not required for publication in my opinion. Second, the authors should carefully read the manuscript and augment every paragraph and figure caption to be explicit about whether it's about a Docker or Singularity container. Right now it's not always easy to know.