

Dear Dr. Slater and co-authors;

Thank you for your excellent manuscript, and my apologies for the delay on my end. I was expecting to be in better contact while traveling and in the field; I was wrong.

As you have seen, the referee has just a couple minor comments, which echo my own. Once those are addressed, I would be happy to move forward with your paper.

Sending my best wishes and apologies again for the slow response,

Andy Wickert

Many thanks for handling our paper. We have made the edits suggested by referee #2 and hope that the revised paper will be suitable for publication.

Referee #2

The authors have very well addressed all of my comments. The only minor thing that I think could improve the paper is two small adjustments to the schematic of Figure 1.

- 1) It would be great to show that all layers have the same length. As is, it is ambiguous if the layers follow the bathymetry or not. I am thinking maybe complete the boxes with a dashed line or similar.
- 2) The model can have layers with different height. Maybe it would be nice to have a 2-3 layers with a different height H in the schematic.

Other than that, I would be happy to see this remarkable modeling study published.

Many thanks for the kind words and for taking the time to do the re-review. We have adapted Fig. 1 as suggested.

Kind regards,

*Donald Slater
On behalf of the authors*