

Interactive comment on “Accuracy assessment of global internal tide models using satellite altimetry” by Loren Carrere et al.

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The authors compare and assess the performance of a suite of existing models of the global internal tides to each other. The methods are well established and this is a paper that I feel should be published, especially in light of recent review papers about tides. There are comments from two reviewers and one short note that will all require replies and amendments to the manuscript. I agree with these, and I have a few other comments on my own (mainly on the presentation of the figures) below.

Minor comments “Significantly” implies statistics has been done to show this – please reword if you mean large or major. Colour figures: The colourmaps used are not 100% friendly for those with impaired colour vision. I suggest they are remade using a

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suitable cmocean map instead. At the same time, make sure the text in the figures is readable. Table 2: M2 should have a dot as decimal placeholder, not comma. Figure 7: please use a diverging colour scheme for difference plots, e.g., blue-white-red. Please mark the regional maps on the large maps and tell us in the caption where they are. Sometimes you write Jason-2, sometimes J2. Please stick to one; I prefer the full name spelled out for all the satellites myself since there is a J2 tidal constituent.

[Interactive comment on Ocean Sci. Discuss., https://doi.org/10.5194/os-2020-57](https://doi.org/10.5194/os-2020-57), 2020.

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