

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

Loren Carrere et al.

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Dear Editor,

Thank you for your interest in this manuscript and for the comments and suggestions you make. I reply to your comments and suggestions to change hereafter, with LC prefix.

Best regards, Loren Carrere

Minor comments : “Significantly” implies statistics has been done to show this – please reword if you mean large or major. LC: done

Colour figures: The colourmaps used are not 100% friendly for those with impaired

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colour vision. I suggest they are remade using a suitable ocean map instead. At the same time, make sure the text in the figures is readable. LC : I use larger font for the text on the figures where it was not legible. Colourmap has been changed for figures 1-6, A1-4 and S1-5.

Table 2: M2 should have a dot as decimal placeholder, not comma. LC: OK

Figure 7: please use a diverging colour scheme for difference plots, e.g., blue-white-red. LC: I already use a diverging color-map here: blue-gray-red. If using a blue-white-red as suggested we cannot see easily the differences in the amplitudes of the signals, so I prefer to keep the blue-gray-red colormap.

Please mark the regional maps on the large maps and tell us in the caption where they are. LC: the regional maps are localized on Figure 1. If marking the regional maps on figure 7 it makes the figure very confusing because there is too much information and colors/lines, so I preferred not to add the regions on Figure 7.

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. LC: OK I put J2 in most places. As the paper is not talking about minor tidal constituents I don't think there is any mis-understanding possible in using J2 for Jason-2.

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