

Interactive comment on “Assimilation of wide-swath altimetry observations to correct large-scale river routing model parameters” by Charlotte M. Emery et al.

Charlotte M. Emery et al.

charlotte.emery@jpl.nasa.gov

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The authors would like to thank referee Hessel Winsemius for his detailed and very helpful comments, which helped us to better articulate our paper. Please find attached our replies and associated modifications to the manuscript in order to address these concerns. To easily address all comments, we numbered each comment: they are referenced by a “M” for the major comments or by a “m” for the minor comments.

We kept the reviewer’s comments and question in bold while our replies are in italic. When the associated modifications in the manuscript remain small, we inserted the modified paragraph in our reply in plain text: the black text corresponds to the original

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unmodified text, the crossed text corresponds to deleted text and the blue text corresponds to new text.

The abstract, the introduction (the latest paragraphs) and the discussions sections have been heavily modified to take into account several remarks from the three reviewers. Therefore, we attached to our reply separate files with the new version of these three sections. In these rewritten sections, we used a color code to differentiate which reviewer made the comment and suggested a modification: comments from reviewer 1 (Hessel Winsemius), 2 (Claire Michailovsky) and 3 (Paul Bates) are in purple, orange and green respectively. Each modification is also referenced by a code in bracket indicating the reviewer (R#^{***}) and the type and index of the comment (M/m#^{***}) such as: “[R#3-M#1]”.

Documents in attached archive: - Reply to reviewer: Reply-to-reviewer-1.pdf - Modified abstract: Hess-2019-242-corrected-abstract.pdf - Modified introduction (the latest paragraphs - from p.3, l.19 – p.4, l.5 in original version of the manuscript) : Hess-2019-242-corrected-introduction.pdf - Modified discussions: Hess-2019-242-corrected-discussions.pdf

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2019-242/hess-2019-242-AC3-supplement.zip>

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-242>, 2019.

C2

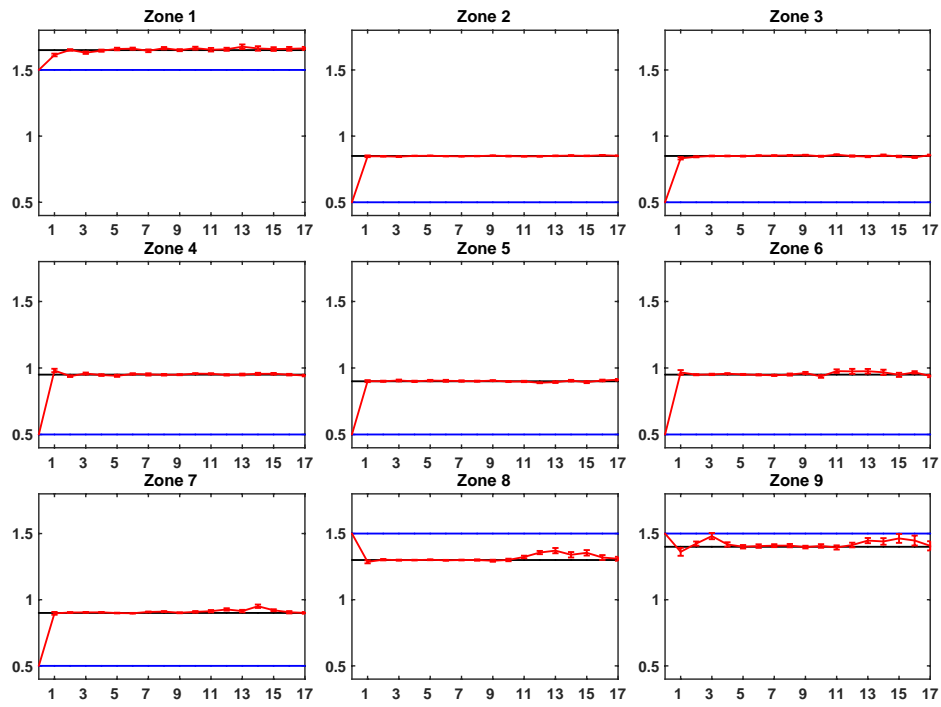


Fig. 1. Modified Figure 7 to address comment m#20

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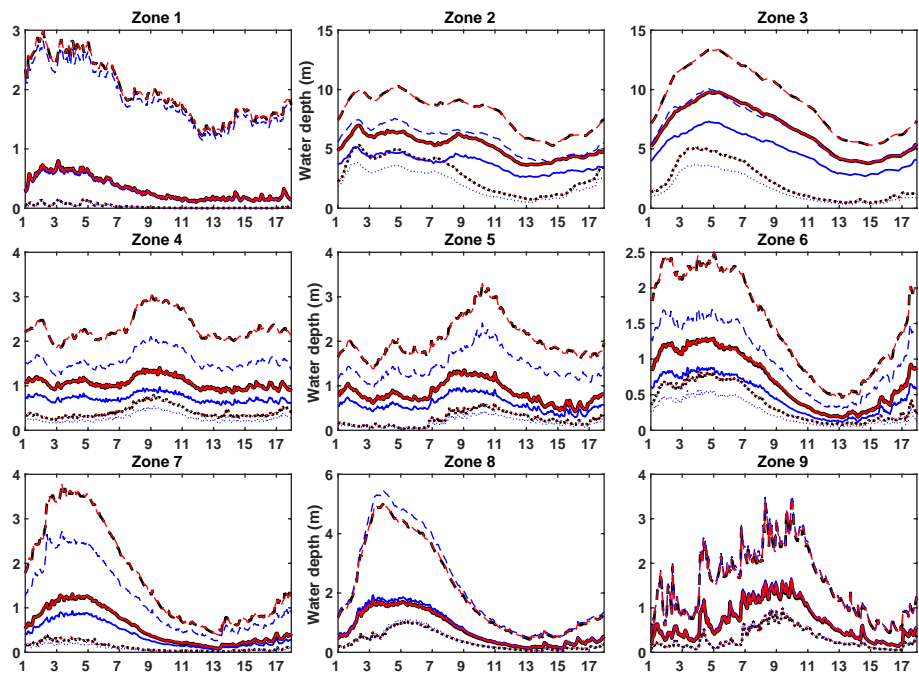


Fig. 2. Modified Figure 8 to address comment m#20

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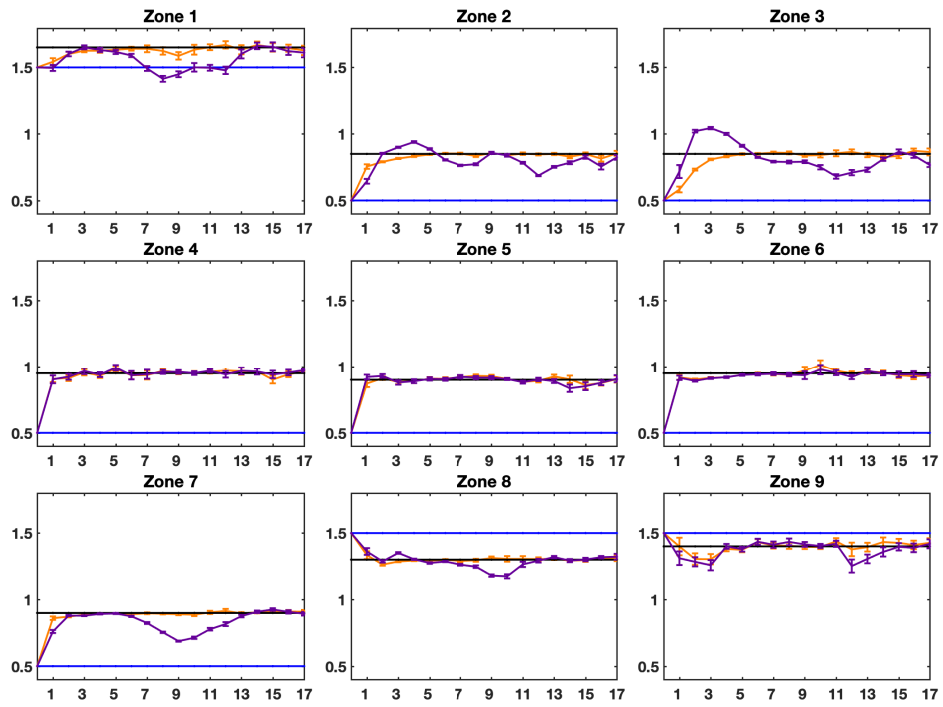


Fig. 3. Modified Figure 9 to address comment m#20

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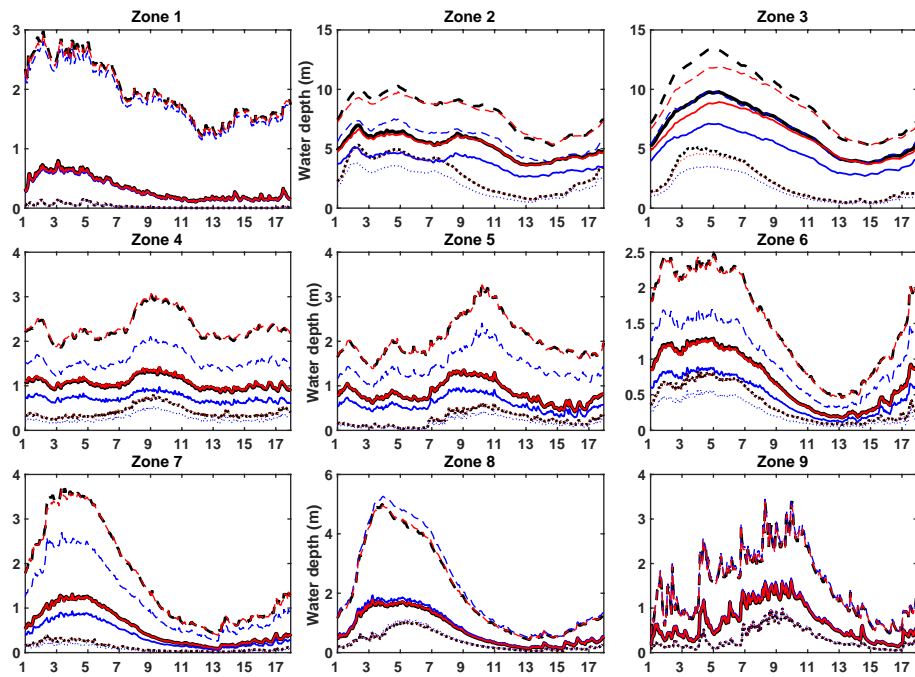


Fig. 4. Modified Figure 10 to address comment m#20

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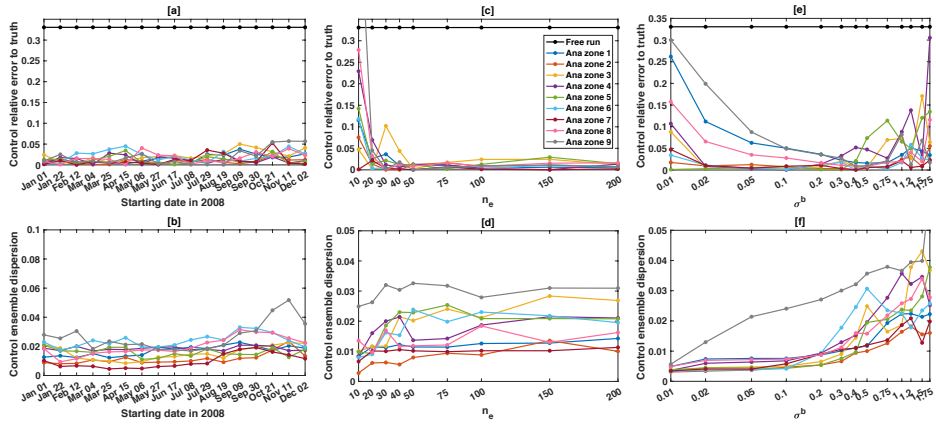


Fig. 5. Additional Figure in Appendix: same as Figure 6 but per zone to address comment m#16