Response to Reviewers

Dear *Dr. Rachid Omira and Reviewers*,

Again, we would like to thank you for the careful review of our manuscript "**Seismic and Tsunami Hazard Potential of the Negros–Sulu Megathrust, Philippines**". The comments have been adopted and carefully addressed, and the manuscript has been revised accordingly. Please find below the responses (highlighted in yellow) to the reviewers' comments, and the revised in-line texts and figure captions (highlighted in cyan).

I think the manuscript is much improved and nearly ready for acceptance, pending the updates to figures (and optionally text) suggested below. These changes are small enough that I don't think further review is required, if the editor is willing to check that the figures are suitably updated.

- L208: Consider replacing "speed" with "wave speed" or "wave celerity", to make it clearer that the contour closeness is caused by a reduction in the gravity wave speed (not the flow velocity).
- L235: Suggest to replace "up to" with a less than symbol '<' for consistency with the latter part of the sentence.

Response/Action:
Thank you for your suggestions. These have been incorporated in the revised manuscript.

- Figures 9 and 10 -- In my opinion the colour maps still are not sufficiently clear. I'd suggest you use a colour map that has more variation (especially for small waves) so that we can better see the pattern. To explain what I mean, here are some examples of images with colour maps that more clearly show a range of wave sizes (https://share.google/s1DITWNEiaheopXYa). You don't have to exactly follow any of these, but note the clarity benefit of more rapid colour variation near zero.

- Figure 11 -- each panel is the difference of two scenarios. But it isn't clear which has been subtracted (i.e. you could have done A-B or B-A). A simple way to clarify this would be to use a minus sign '-' instead of 'v' in the text inset, while making sure you have appropriate ordering of the scenarios.

- In the Supplementary figures
+ S8, S9, S10, S11 -- same comment as for Figures 9 and 10
+ S12, S13, S14 -- same comment as for Figure 11.

Response/Action:

These figures have been revised as shown below:

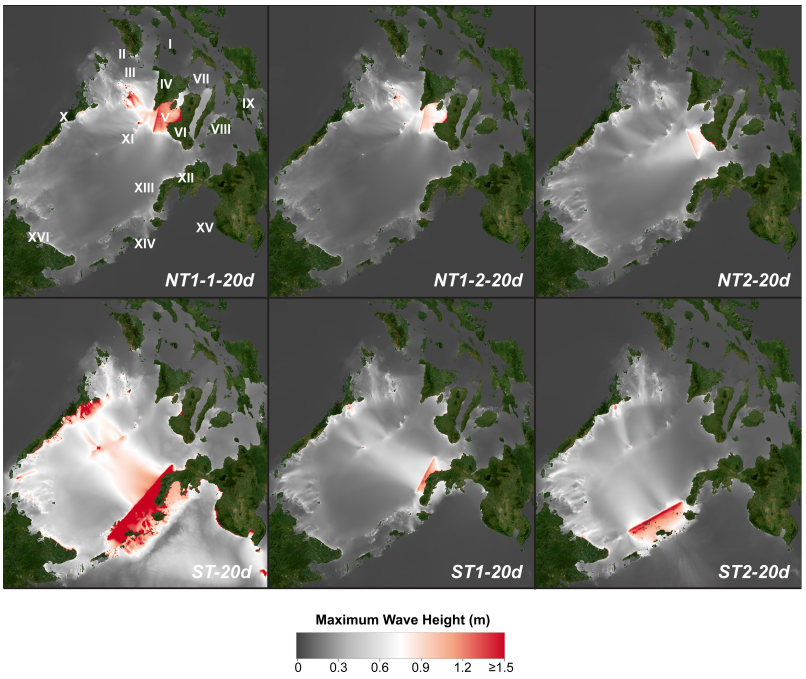


Figure 9. Maximum wave height (m) from the 4-h tsunami simulation of six segments with a megathrust dipping at 20°. Basemap from World Imagery © Esri.

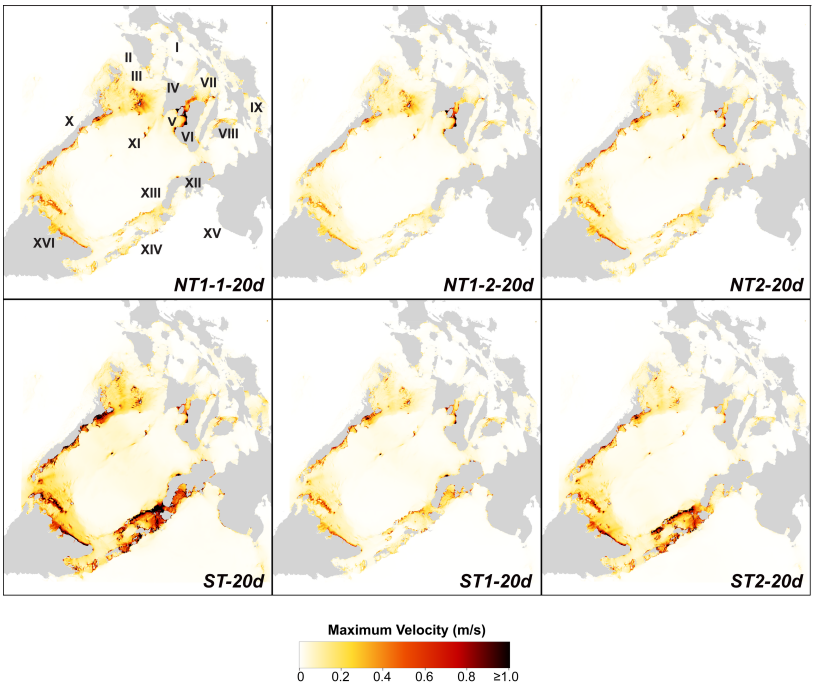


Figure 10. Maximum flow velocity (m/s) from the 4-h tsunami simulation of six segments with a megathrust dipping at 20°.

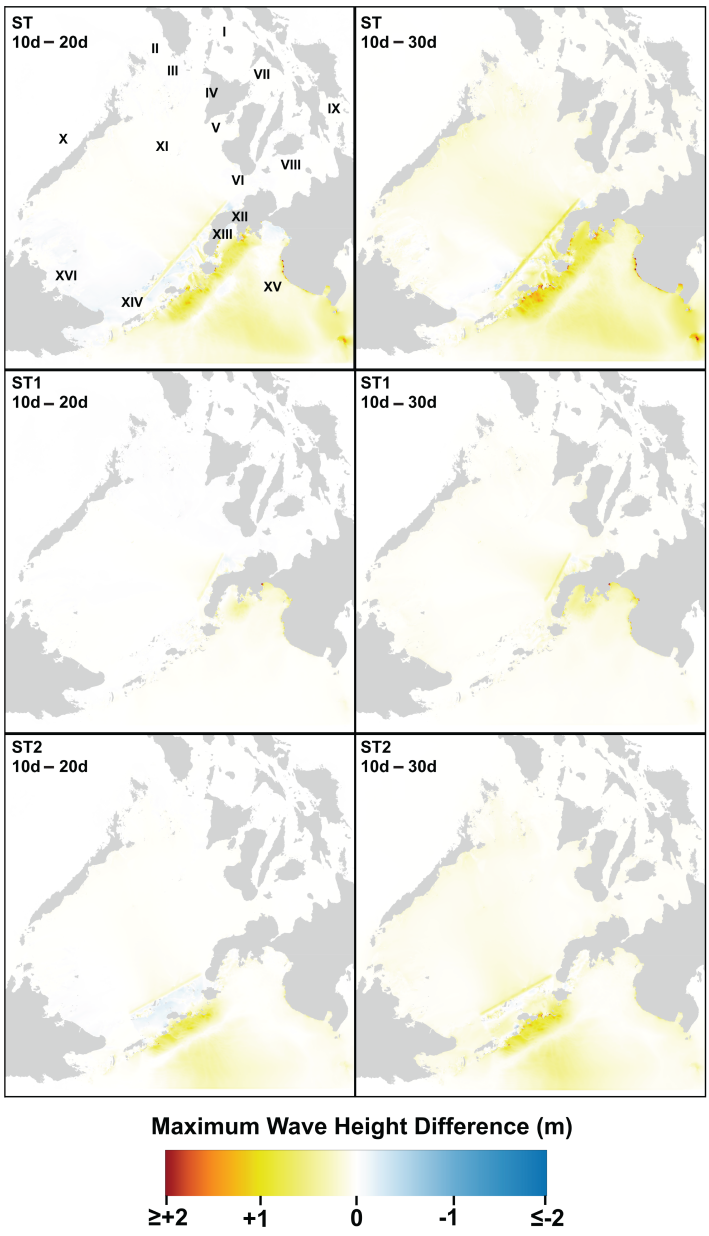


Figure 11. Maximum wave height differences (10d – 20d and 10d – 30d) comparing 10°-dip megathrust with those of 20° and 30° in the Sulu Trench (ST) segments.

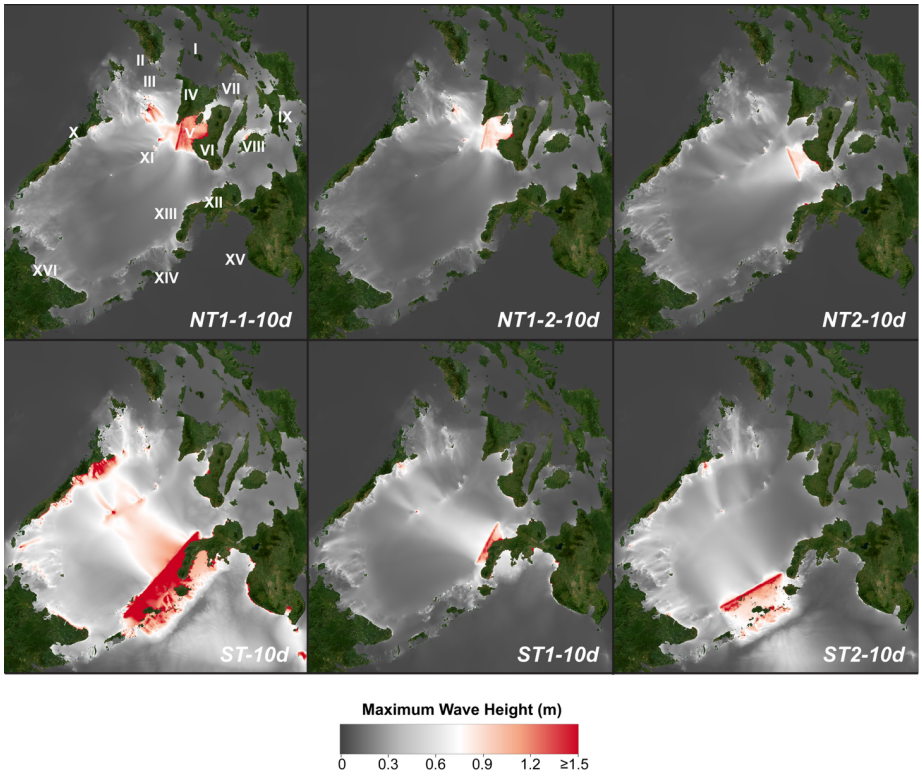


Figure S8. Maximum wave height (m) from the 4-h tsunami simulation of six segments with a megathrust dipping at 10°. Basemap from World Imagery © Esri.

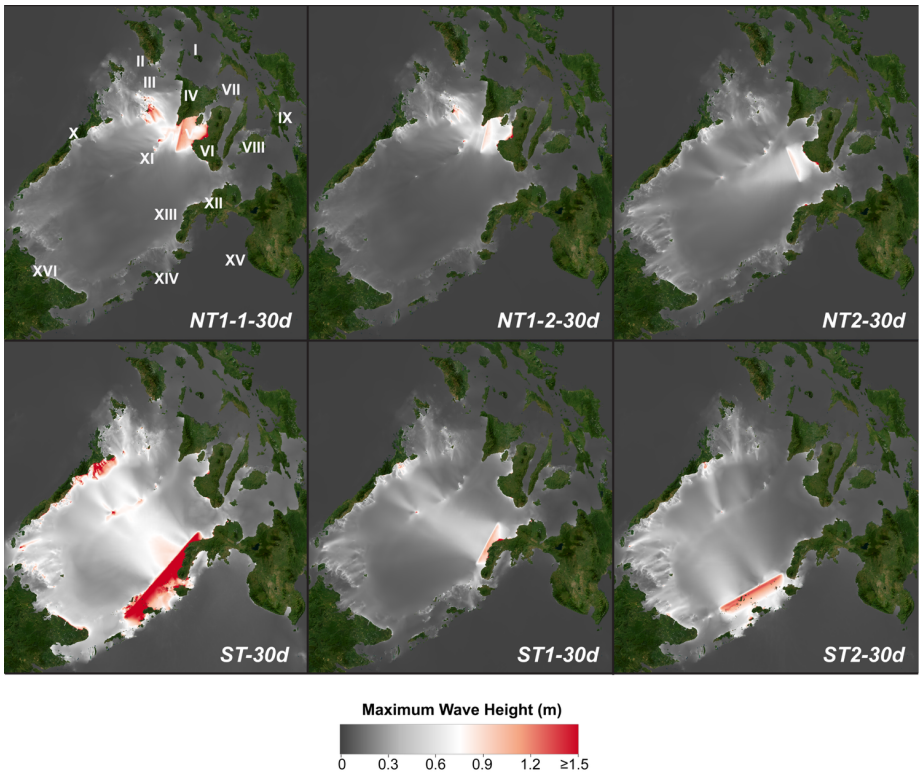


Figure S9. Maximum wave height (m) from the 4-h tsunami simulation of six segments with a megathrust dipping at 30°. Basemap from World Imagery © Esri.

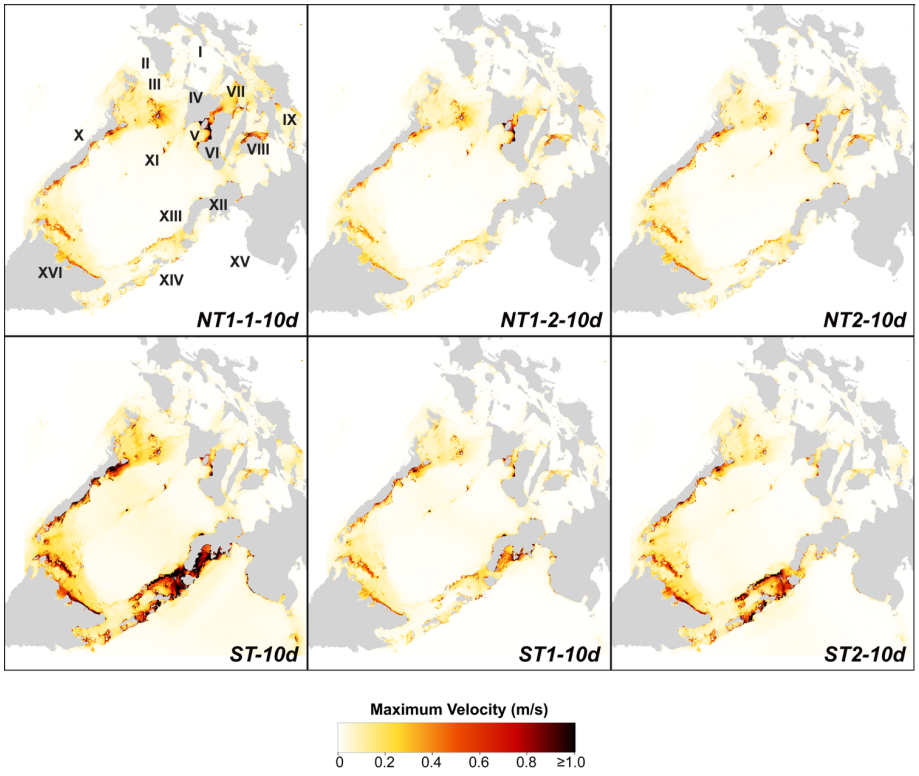


Figure S10. Maximum flow velocity (m/s) from the 4-h tsunami simulation of six segments with a megathrust dipping at 10°.

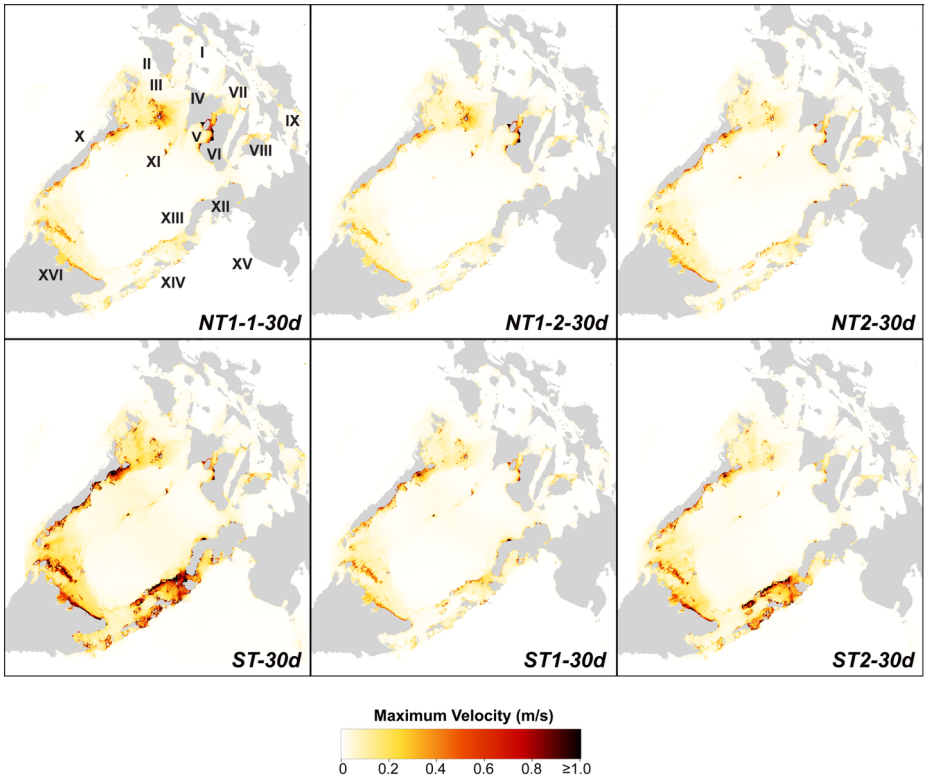


Figure S11. Maximum flow velocity (m/s) from the 4-h tsunami simulation of six segments with a megathrust dipping at 30°.

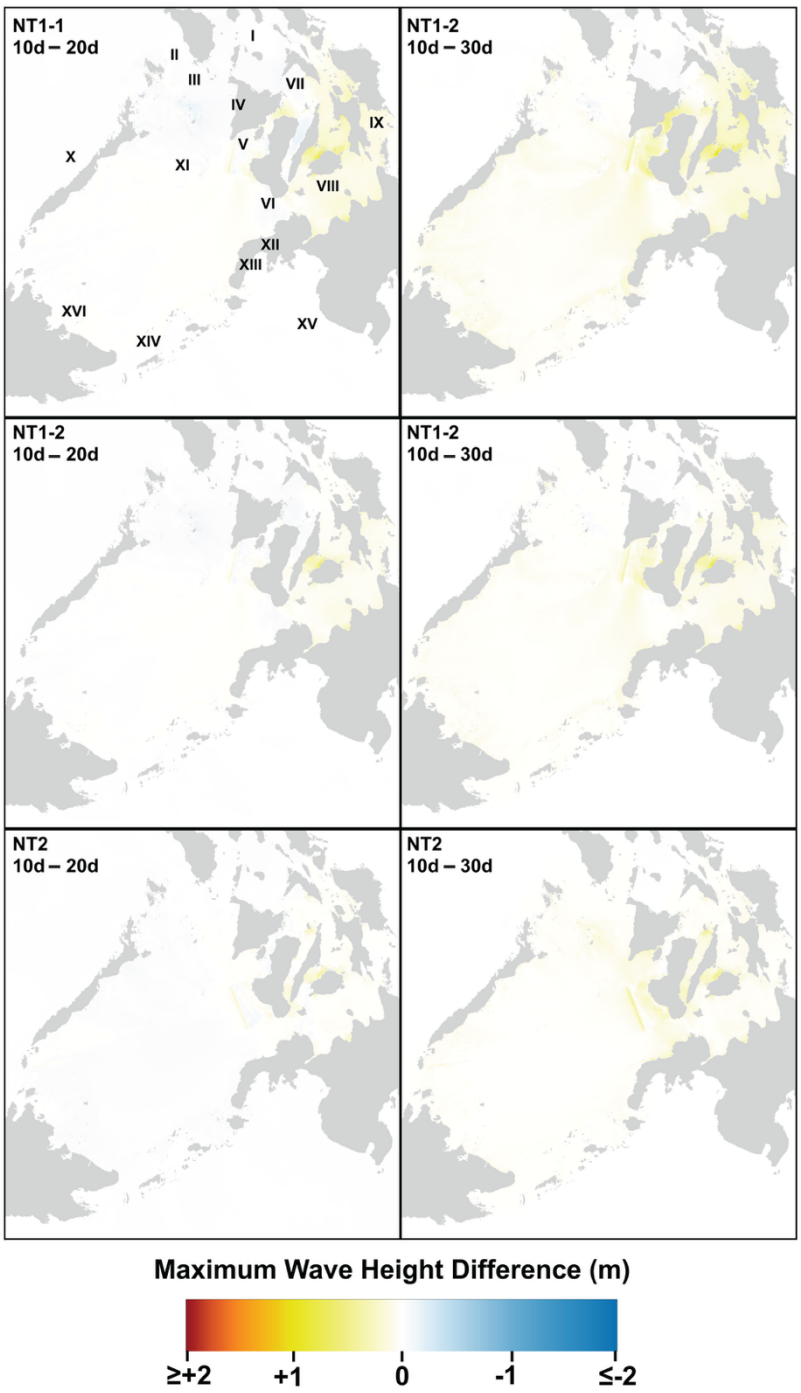


Figure S12. Maximum wave height differences (10d – 20d and 10d – 30d) comparing 10°-dip megathrust with those of 20° and 30° in the Negros Trench (NT) segments.

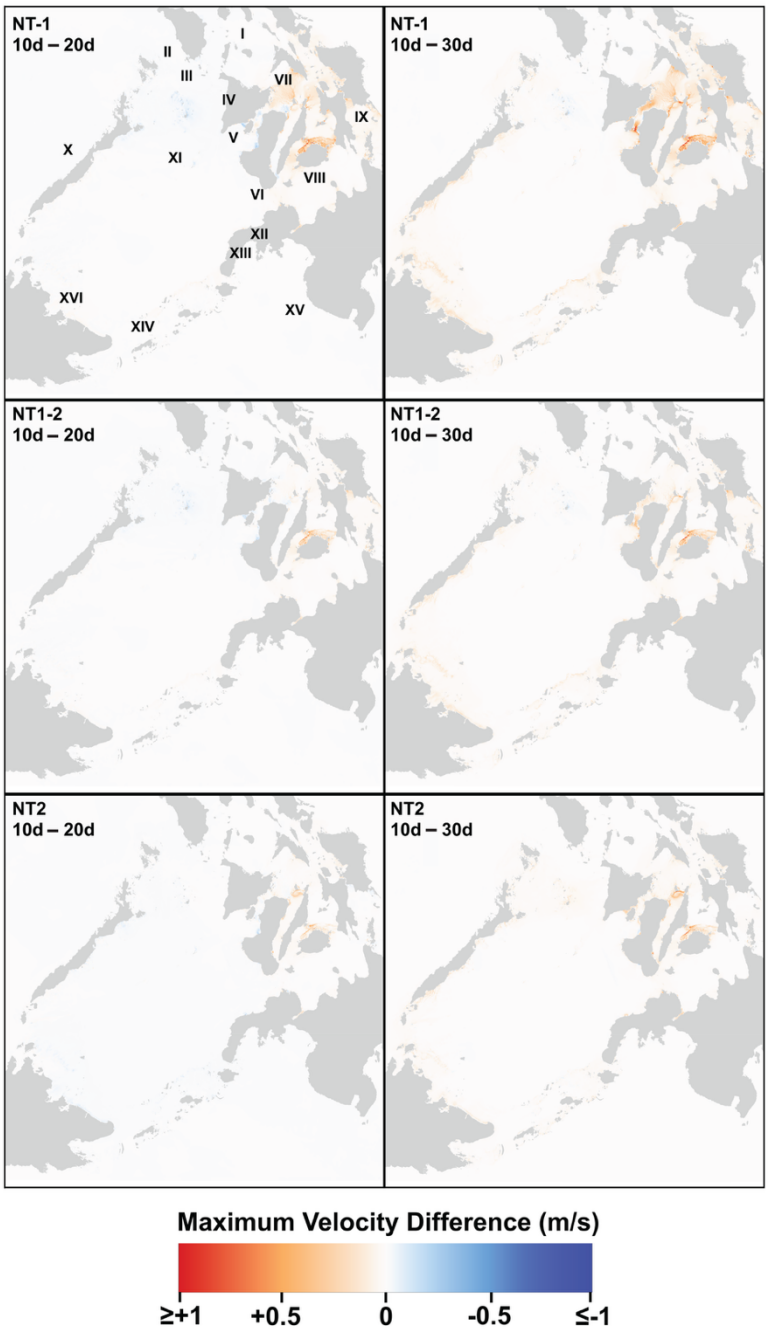


Figure S13. Maximum flow velocity differences (10d – 20d and 10d – 30d) comparing 10°-dip megathrust with those of 20° and 30° in the Negros Trench (NT) segments.

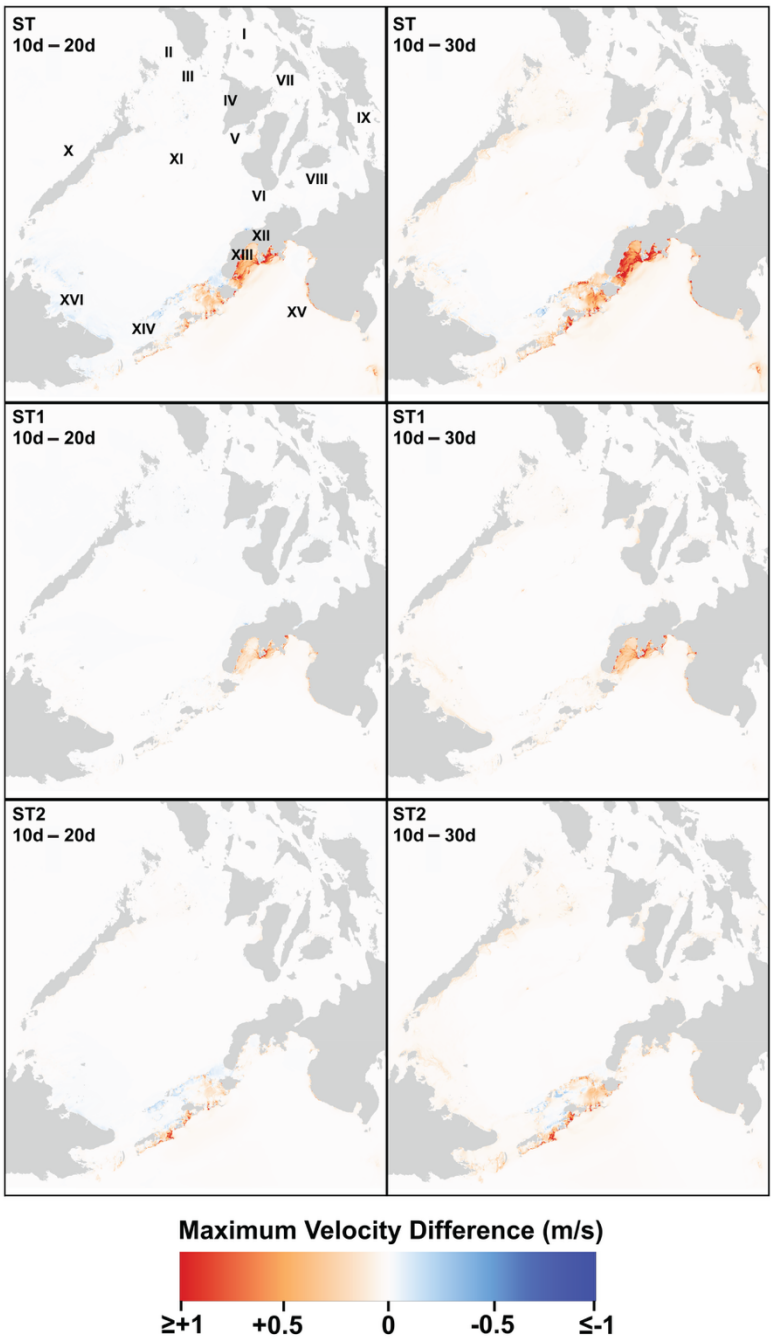


Figure S14. Maximum flow velocity differences (10d – 20d and 10d – 30d) comparing 10°-dip megathrust with those of 20° and 30° in the Sulu Trench (ST) segments.