

## ***Interactive comment on “Tsunami hazard assessment in the southern Colombian Pacific Basin and a proposal to regenerate a previous barrier island as protection” by L. J. Otero et al.***

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The authors thank the reviewer for the thoughtful and helpful comments to the manuscript. This document presents the detailed response to the reviews comments. 1. Will be corrected 2. Will be corrected 3. The effects of flooding due tides were taken into account in the bathymetry, adding the desired height in the simulation. 4. According to previous simulations studies the manning roughness is defined as 0.025. 5. For all simulations we defined a Manning roughness of 0.025, based on values used in other studies. It will include a reference in the paper about this topic. 6. The Coriolis effects in the tsunami model was not suppressed, although the tsunami traveled a very

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short distance. We used the model configuration, where this parameter is enabled by default. 7. Will be changed. 8. Will be reworded. 9. Will be corrected. 10. It will be edited Figures 3 and 4 to include faults and subduction zone. 11. Will be corrected. 12. Will be corrected 13. Will be corrected 14. Will be changed 15. Table 1 can be held in the paper because provides the seismic-tectonic characteristics of the region, as has been done in similar items. 16. Will be changed. 17. Will be considered. 18. Will be reworded. 19. The units will be placed on the scales of Figures 8 and 9. White color indicates areas of no flooding. 20. The names of geographic locations will be aggregated in Figures 8, 8 and 13.

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