

Interactive comment on “LIDAR vs. GEODAS land elevation data in hurricane induced inundation modelling” by M. Peng et al.

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The manuscript provides an interesting illustration of the potential effect of the differences between the LIDAR and GEODAS land elevation data on the results of interactive inundation models. As such it can act as a warning against the blind use of either data set.

Because the authors do not analyse the results in detail, the results are however of very little interest for the general audience. A couple of issues could be analyzed to reach more general conclusions :

- What is the detailed link between the statistics of the elevation differences and the inundation results ? Are the data differences amplified by the model or are the

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- results completely governed by the elevation differences (and predictable from the knowledge of the data differences) ? What are the key factors influencing the comparison ? What is the influence of the cross-coast depth profile ?
- Are the selected locations characteristic of larger areas (A map of the raw land elevation data should be given to provide the reader with some ideas about the land profile in the selected areas) ? Does the elevation difference given by the two data sets keep the same order of magnitude all over the US coast ?
 - A validation is needed to determine which data set is the best for the simulation of inundations.

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