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Interactive comment on “A geomorphology based approach for digital elevation model fusion – case study in Danang City, Vietnam” by T. A. Tran et al.

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This MS is well written and clear. The method is also clearly described.

Looking into the the cross sectional profile in the plain, one might see the limit of actual global DEMs Vs reference ones.

There are few issues with multi-scale assimilation of DEMs, one of them is the slope tension dependency to spatial resolution. Nothing is said about this, prior nor after fusion, and how fusion algorithm is benefiting from this, or is constrained from the increase of noise.

This slope dependency could be explored post fusion and some residual correction algorithm might be found to further improve the fitting to the reference DEM, most

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probably in hilly terrain.

Generally speaking, it should be feasible to at least further analyse the results of differences, since there is evidence of skewness benefit near to zero difference, but both skewness and kurtosis and SD 1&2 values VS count may not be that beneficial. Thus further analysis of the difference can provide better fine-tuning of the model proposed.

Interactive comment on Earth Surf. Dynam. Discuss., 2, 255, 2014.

ESurfD

2, C98–C99, 2014

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