

## ***Interactive comment on “An improved approach to estimate large-gradient deformation using high resolution TerraSAR-X data” by D. Liu et al.***

### **Anonymous Referee #1**

Received and published: 6 October 2014

The manuscript "An improved approach to estimate large-gradient deformation using high resolution TerraSAR-X data" by D. Liu, R. Chen, B. Riedel, and W. Niemeier, deals with an important issue relevant to the suitability of DInSAR monitoring techniques in contexts where large and/or rapid deformation phenomena occur.

The manuscript is well organized, methods and results fairly presented, and references are appropriate. There are still some typos in the text (e.g. volcanos instead of volcanoes, and others), which should be solved in the final version of the manuscript. Regarding figures, I would suggest to split Fig. 1 in two figures, to improve the readability of the flow chart describing the proposed method. If there are some restrictions in the figure's number, then I would suggest to move your figure 3 in the supplementary materials. I suggest to accept the manuscript for publication in SE after minor technical

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corrections.

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Interactive comment on Solid Earth Discuss., 6, 2759, 2014.

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