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Comment

## ***Interactive comment on “Recent land subsidence caused by the rapid urban development in the Hanoi urban region (Vietnam) using ALOS InSAR data” by V. K. Dang et al.***

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This paper reports the results of the use of InSAR to monitor surface deformation in the city of Hanoi. Results are validated with levelling data. Possible causes of the surface deformation are discussed with geological, rainfall and groundwater extraction data. It is suggested that the fluctuation of surface deformation is due to seasonal rainfall and the successive recharge and extraction of water from the aquifer beneath the city of Hanoi. The paper is interesting and informative. However, I would suggest that it be edited to correct language errors which frequently create ambiguities in the understanding. I have some specific comments below, which mainly relate to the figures.

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page 7, lines 21-22: The classical InSAR method allows the generation of interferograms corresponding to the phase difference, not only in the case of repeat-pass. However, equation 1 is only in the case of repeat pass. I would suggest transferring, “in the case of repeat pass” to the beginning of the following sentence - need only to change punctuation.

Fig 4. Make it clear in caption that a, b and c refer to left, centre and right (not to locations of profiles A to F)

Fig 5. Is X axis scale linear? Labels do not suggest it is linear. (e.g. shorter gap from Feb10 to Feb11). Perhaps you could draw a line to show where the peak is in July 2010.

Fig. 5 and page 13. In my interpretation of the scatterplots, the pattern of decrease up to the end of 2008 does not seem noticeably different from the pattern of decrease in the following period.

Fig. 7b. My understanding from the text (page 14, lines 2 to 6) is that for the two blocks TT18A and TT18B, levelling data was compared with InSAR points. While Fig. 7c shows the comparison for block TT18B, Fig. 7b only shows the levelling data for block TT18A. Couldn't a comparison with InSAR not also be shown for this?

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