

## ***Interactive comment on “Earthquake-induced deformation estimation of earth dam by multitemporal SAR interferometry: the Mornos Dam case (Central Greece)” by S. Neokosmidis et al.***

**S. Neokosmidis et al.**

s.neokosmidis@noa.gr

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The authors gratefully acknowledge the Reviewer for the valuable comments. We agree with the comments, which are highly addressable and will help improve the manuscript. We would like to modify our manuscript on the basis of the comments, and all the comments will be carefully included in the revised version of the manuscript.

As far as the geodetic GPS measurement is concerned, in bibliography there is a paper by Gikas et al. 2005 which Authors used precise leveling and GPS measure-

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ments on the dam's crest for the period 2002-2004. They also found a clear relation of Dam behavior and variations in water volume also in a seasonal scale. Unfortunately during the period of 2002-2004 had not occurred any important seismic event in the area which could be recorded by the geodetic measurements. Also the Athens Water Supply and Sewerage Company (EYDAP SA) who is the owner of the Dam, has measurements to monitor locally the deformation of the dam's crest but it isn't reportable and accessible to the public but only for internal uses. In the discussion section we will mention the above reference in ordered to be cleared. As far as the minor comments is concerned, all are acceptable and in the final version of the manuscript will be corrected and clarified. At the revised manuscript the Authors will include a discussion section (mentioned on supplement) describing the above mentioned and the limitations of the procedure.

### Reference

Gikas V., Paradissis D., Raptakis K. and Antonatou O.: Deformation studies of the dam of Mornos artificial lake via analysis of geodetic data. FIG Working Week, FIG, Cairo (Egypt), 2005.

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/2/C3564/2015/nhessd-2-C3564-2015-supplement.pdf>

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