

Interactive comment on “Detailed quantification of delta subsidence, compaction and interaction with man-made structures: the case of the NCA airport, France” by O. Cavalié et al.

Anonymous Referee #2

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The authors present the results of an interesting study on the use of InSAR to retrieve ground displacement over the Var river delta, France. I found that their study has a twofold impact. On the one hand, this study adds up to the worldwide concern about the knowledge of river delta sediments compaction, related to climate change and sea level rise issues. On the other hand, as the Var delta hosts the NCA airport, this study performs a risk analyses over the NCA airport since the airport is built on reclaimed lands. I found the manuscript well written and well organized. The methodology and the tools used by the author are pertinent with respect to their investigation. The discussion and conclusions are convincing, they issue a warning about the NCA instability, and

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they improve our knowledge on the study area. The figures are well presented and they are all necessary. The bibliography is comprehensive, but there is a recent GRL work –based on InSAR applied to the Nile River delta in Alexandria- that the authors might want to add to make the bibliographic references more complete and up-to-date. After this very minor revision, I suggest the Editor to accept the manuscript for publication in NHESS.

G. Wöppelmann et al., Is land subsidence increasing the exposure to sea level rise in Alexandria, Egypt?, GRL, 2013.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 3761, 2015.