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Comment

# ***Interactive comment on “Niger’s Delta vulnerability to river floods due to sea level rise” by Z. N. Musa et al.***

## **Anonymous Referee #2**

Received and published: 7 September 2014

The paper under discussion is about the vulnerability to sea level rise for the case of Niger Delta. The paper presents an interesting approach in the area of vulnerability indexes due to river floods. Moreover I found the author’s approaches to vulnerability an interesting one, combining two different approaches.

The introduction presents a state of the art review which is up to date and well presented. The methodology is well explained, however when it comes to the application of it I found that definitions are well extended while results are only presented in figures based on the defined ranges in tables. The 54 segments, which are evaluated for vulnerability do not have specific values presented, which can be assessed with respect to the ranges (that are previously defined in tables). It is well understood that results cannot be shown for all 54 segments, but an example result for example for

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the most vulnerable segment, values on how the vulnerability is computed for that particular segment would be good. A similar approach for the least vulnerable would be appreciated.

I am also missing just few words on why only 17 indicators, why other indicators were not relevant and as such left out, or maybe there is no data available for them.

In the conclusion part I was missing few words on how the decision makers can make use of such result. In the day to day work of a decision maker it is not straight forward that they can make use of such results directly. How do the authors see the use of such results: will they be used at the moment of a flood event occurring or before flood events?.

Will such indexes be used in connection with physically based models, or not? Are there ranges of uncertainty in the mapping of the vulnerability?

I appreciate the paper and find it interesting, however I am looking forward to see the answers to the above raised questions.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 5213, 2014.

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