

## ***Interactive comment on “ENSO components of the Atlantic multidecadal oscillation and their relation to North Atlantic interannual coastal sea level anomalies” by J. Park and G. Dusek***

### **Anonymous Referee #1**

Received and published: 28 January 2013

This is a detailed paper on the influence of ENSO on AMO index and on long term sea level on the western north Atlantic. The authors have applied a simple linear model to analyze how ENSO signals reach the north Atlantic and are reflected on sea level. Despite its simplifications they have considered all possible explanations and limitations of the model. I think that this paper deserves publication. I have some minor comments, though, that I'm listing below.

Page 3678, lines 16 onwards: definition of AMOI(ENSO) should go before referring to it in the previous page

Page 3684, lines 19-23: I think that this result is inconclusive. There is no explanation

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why two nearby stations should give different coupling, especially those highly correlated (e.g. Key West and Charleston). Others, such as Boston and Portland, have clearly different responses at 3.2 yr band. At Boston, this signal is almost at the noise level.

Page 3685, line 18: where is this statement justified?

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Interactive comment on Ocean Sci. Discuss., 9, 3673, 2012.

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