

## ***Interactive comment on “On studying relations between time series in climatology” by V. Privalsky***

### **Anonymous Referee #1**

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It is a very nice example of correct detecting relationships between climatological time series. I'd like to notice that the math used is completely rigorous and well founded. The presentation is clear and thorough. I recommend the manuscript for publication with a couple of minor remarks. 1. A concept of linearly regular process is not a common knowledge for readers of this journal. Please provide an appropriate reference on line 23, page 6. 2. Line 15, page 7: "at" should be replaced by "as". 3. A caption to Fig.2 should be extended to clarify which curve is what. 4. One of the conclusions (I completely agree with) is "AMO is affected by SST3.4 but does not affect SST3.4 explicitly". Does it mean that SST is a cause and AMO is a consequence? It would be good to see comments on causation inferences in the conclusion section. ÆÑ

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Interactive comment on Earth Syst. Dynam. Discuss., 6, 699, 2015.