

Interactive comment on “Technical note: On the progress of the 2015–2016 El Niño event” by C. A. Varotsos et al.

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The study deals with the undergoing 2015–2016 El Niño event and focus on whether this event would become one of the strongest on record as that of 1997–1998. The data of the Southern Oscillation Index for the period 1876–2015 are analyzed by performing a method based mainly on the calculation of the entropy in natural time. The Receiver Operating Characteristics (ROC) analysis is also used. Generally, the paper is well written and the subject is fully appropriate for publication in ACP. The conclusions are also very interesting for the scientific community that deals with El Niños. The paper deserves publication to ACP after some minor comments have been considered:

- The El Niño Southern Oscillation (ENSO) and its effects have been widely studied by

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the scientific community. Thus, I suggest adding a few references on the subject in the Introduction section.

- In page 35790 and in Figure 2 the results of the Receiver Operating Characteristics (ROC) analysis and the estimation of the appropriate value of the threshold ΔS_{thres} on the basis of ROC are presented. It would be helpful to give some more information about the ROC analysis before the presentation of the results obtained.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 35787, 2015.

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