Interactive comment on “Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era” by A. Gonsamo et al.

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Received and published: 3 June 2016

We thank the anonymous referee #1 for very positive overall comments on our manuscript. We reply below after each numbered comments.

1. The paper uses different environmental datasets to link the coherent changes and trends in CO2, snow cover, spring phenology and thaw, solar radiation, Scandinavian Pattern, and North Atlantic Oscillation, solar radiation. Authors tries to give us a relatively full picture on the relation between these different variable but their internal coherence in the change among land, cryosphere, and ocean to natural and human
induced climate variability and change. The study fits the central theme of the journal ESD. Because this study tries to give a big picture and thus it is understandable that many more details are missed and some statements have no data to support and needs other further studies are needed. I suggest the paper accepted for publication with minor revision.

Thank you very much for the positive comments.

2. From line 5 to line 10, the below relevant key papers should be cited.


We will include the suggested references in the new version of the manuscript.