

***Interactive comment on “Pan-Arctic linkages
between snow accumulation and growing season
air temperature, soil moisture and vegetation” by
K. A. Luus et al.***

KA Luus

kaluus@uwaterloo.ca

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Dear Anonymous Referee #3,

Thank you very much for providing a list of suggestions for possible improvements to this manuscript. Thank you especially for outlining the need to provide a more thorough assessment of the uncertainties in remote sensing products (1,2), and a more detailed description of how output from ACE plots was analyzed (7). I also greatly appreciate the suggestion that the ACE technique could be applied to investigate temporal changes over a well defined study area. I think that the paper could be substantially improved if an ACE analysis of temporal changes over a defined study area was provided at

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the beginning of the paper, when ACE is first introduced. An examination of temporal trends in ecosystem properties over an established study site would improve reader familiarity with the entire process through which ACE is used to assess ecosystem linkages, and could allow improved confidence in the ACE analysis of spatial linkages. Thank you again for providing these revisions, which are now being implemented.

KA Luus

Interactive comment on Biogeosciences Discuss., 10, 1747, 2013.