Non-stationarity of relationship between Siberian autumn snow cover and Arctic Oscillation in the following winter

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Data and Research methods

Western Siberia (55° – 74° с.ш., 60° – 90° в.д.)

Reanalyze:

- ERA-Interim
- NCEP/NCAR

Models:

- INMCM4
- INMCM5

- Arctic Oscillation Index (AO Index) by the reanalyze ERA-Interim (1979-2015 гг.), NCEP/NCAR (1979-2016), by the models INMCM4 (1979-2004) and INMCM5 (1979-2007);
- average area of the October snow cover by the reanalyze *ERA-Interim* (1979-2015 гг.), by the models *INMCM4* (1979-2004) and *INMCM5* (1979-2007);
- maximum area of the October snow cover by the reanalyze NCEP/NCAR (1979-2016).



Figure 1. – Values of correlation between Smax, Sint in October and the AO index in winter season by the reanalyze *NCEP/NCAR* (1979-2016).

Thank you for your attention!