



On the statistical significance of surface air temperature trends in the Eurasian Arctic region

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This study investigates the statistical significance of the trends of station temperature time series from the European Climate Assessment & Data archive poleward of 60N. The trends are identified by different methods and their significance is assessed by three different null models of climate noise. We find that all stations have a warming trend. The statistical significance depends on the null model used. We also find that the signal-to-noise ratio of the stations is low. The implications for Arctic climate change and predictability will be discussed.