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Looking for remote air temperature signal in the Arctic

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We are studying the structure of warming in the high Arctic during different periods over the last few decades, starting from the middle 50th. Different datasets are used for the analysis - Russian North Pole drifting stations, IABP POLES data, Hadley Centre datasets and ERA-40 and NCEP/NCAR Reanalysis products. The focus of the study is whether there is any signal in the high Arctic coming from the lower latitudes. The datasets show big disagreement regarding the shape and strength of this signal. Possible reasons and mechanisms for these differences are discussed.