

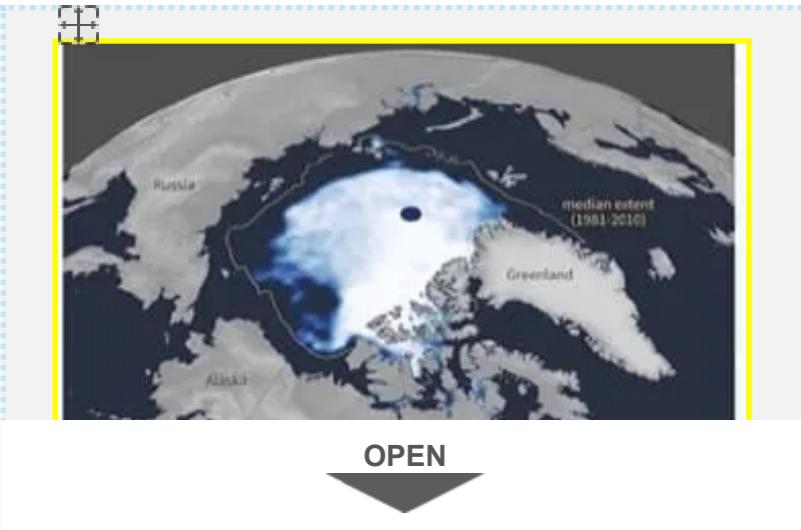


Modeling Seasonality of River Discharge in Pan-Arctic Watersheds with Ring Width and Tracheid Anatomical Parameters

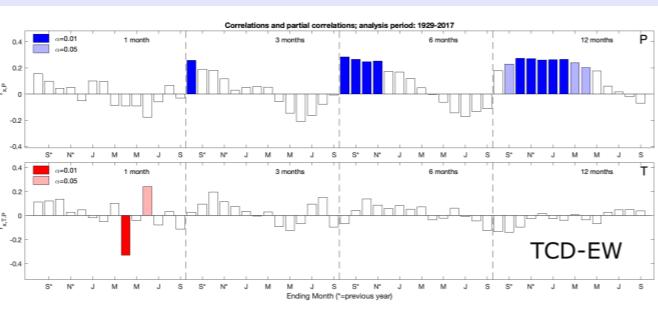
Irina Panyushkina, Richard Thaxton David Meko
Laboratory of Tree-Ring Research, University of Arizona USA



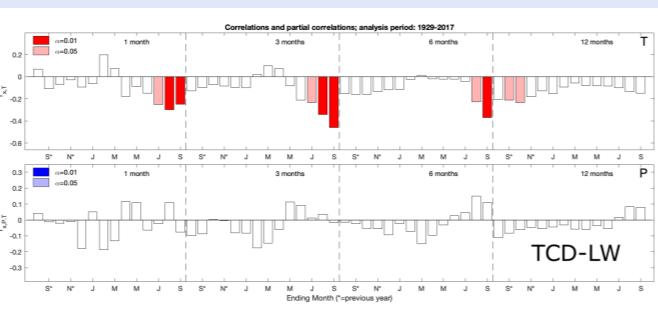
Arctic Amplification



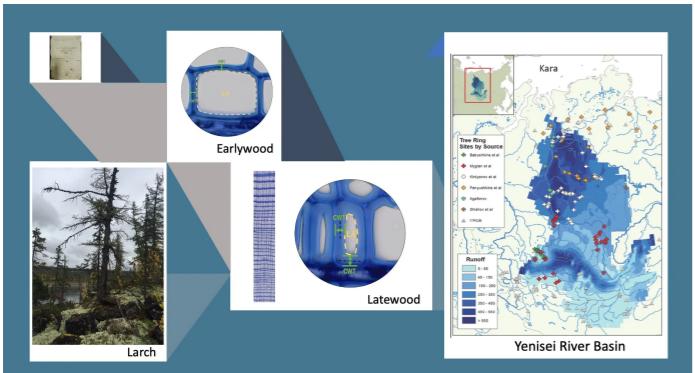
Climate Signal of Cell Dimensions



The intra-parameter pattern of climate response per ring. Correlation between air temperature (red), precipitation (blue), and cell dimensions. Climate data from the Turukhasnsk station, 1927-2017.



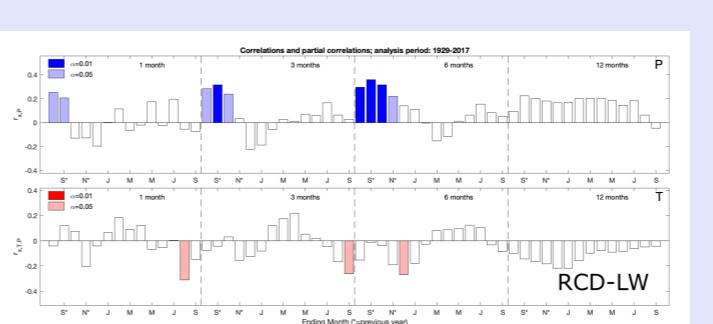
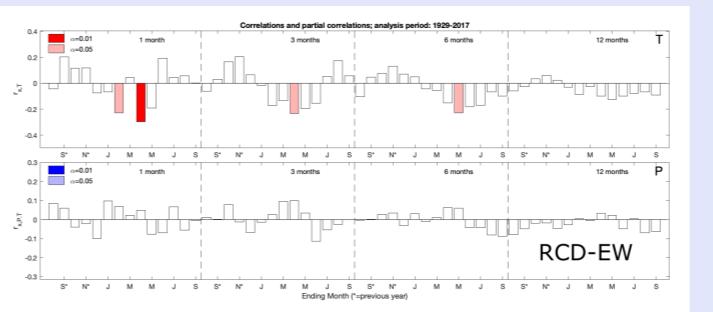
Tree Rings from Yenisei River Basin



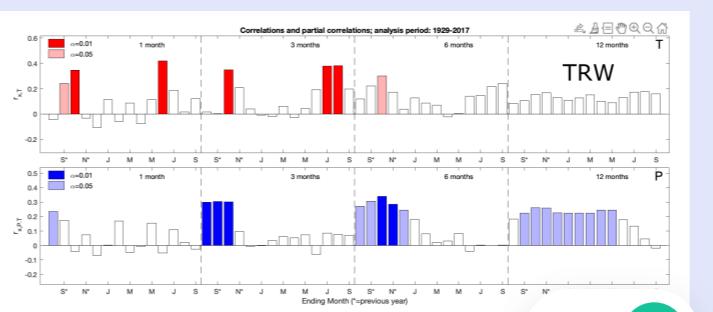
The historical network of tree-ring width chronologies (Right map) is updated to 2019/2020 as well as the hydrological observations. A new type of tree-ring

OPEN

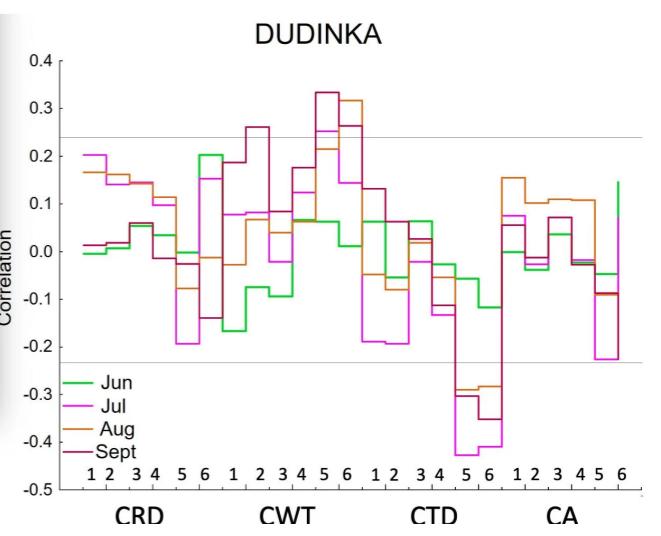
Climate Signal Segregation



MIR site chronology from tree-ring widths (TRW) demonstrates the mixing Temp-Precip signal in the lower reaches of the Yenisei River.

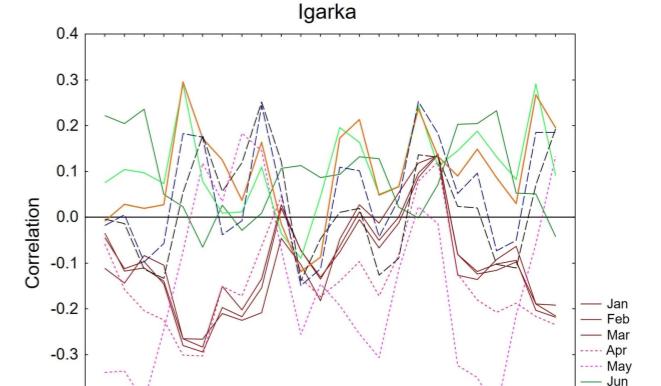


Yenisei Water Temperature



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Response to the Yenisei Discharge



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