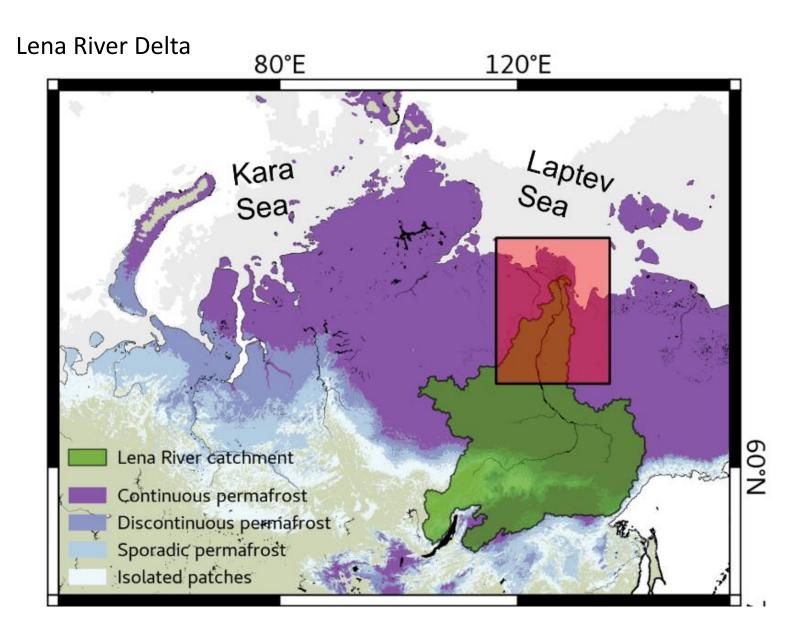
High frequency Lena River water sampling – based at the Research Station Samoylov Island

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- largest watershed of Arctic Rivers
- ~ 20 % of fresh water input to Arctic Ocean
- catchment ~ 90 % permafrost
- mobilization of DOM bypermafrost thaw is expected

Samoylov Research Station - operating all year round



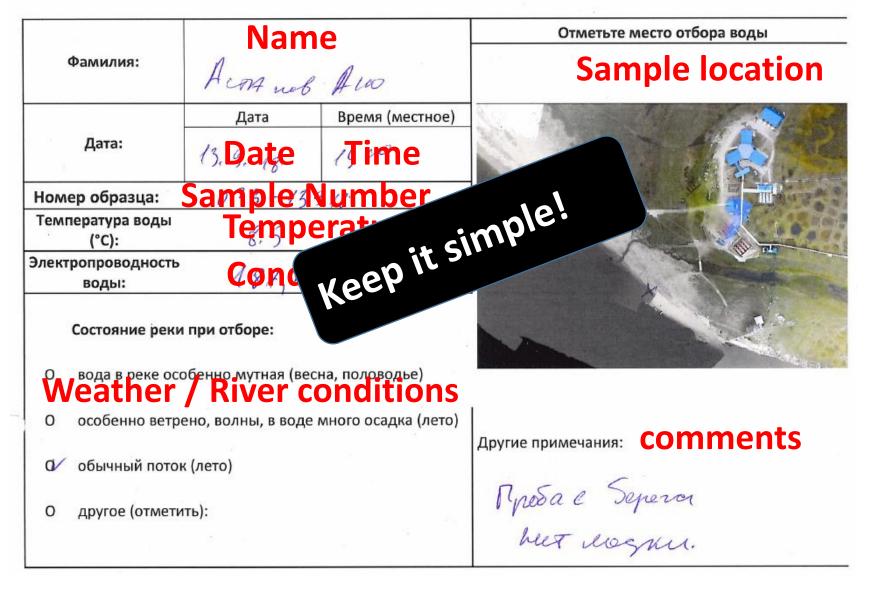






Measurements and sampling protocol - station staff is not scientifically trained!

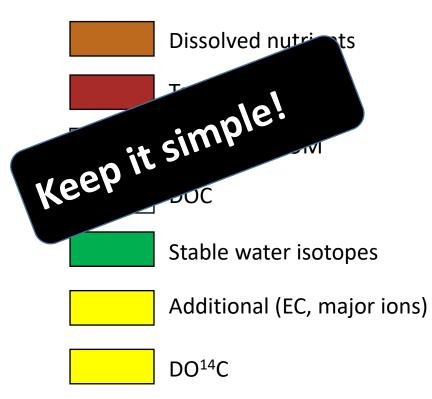




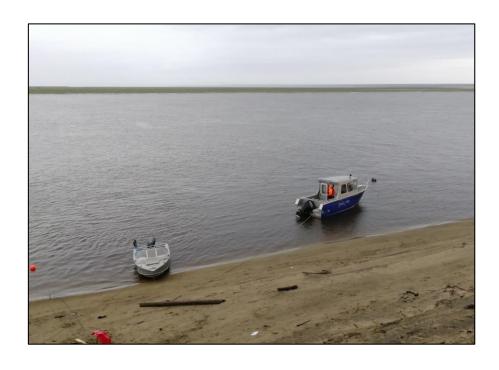
Measurements and sampling protocol - station staff is not scientifically trained!









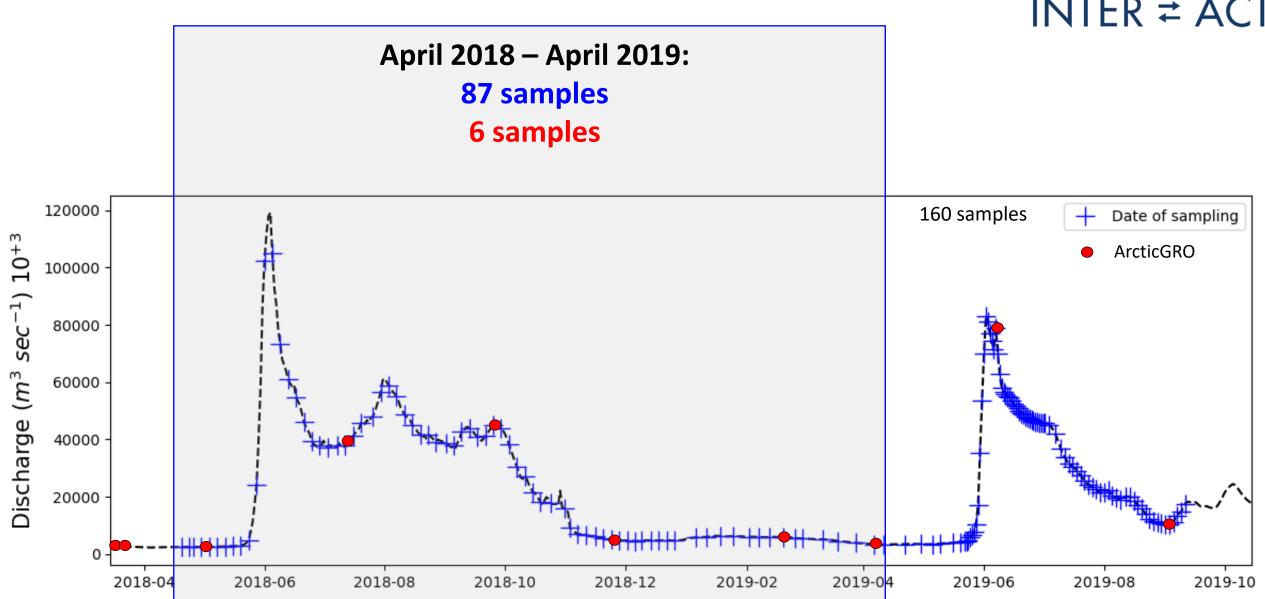






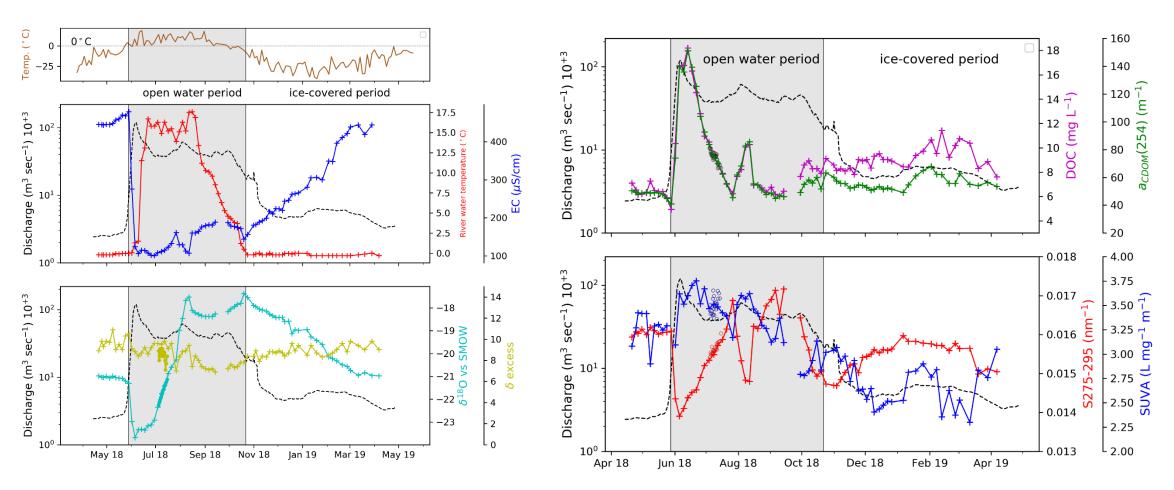
- **high** sampling **frequency** (~ every 4 days or more often)
- sampling all year round





INTER ≠ ACT

results already submitted to Frontiers of Environmental Science (Juhls et al.)



Long-term increase of Lena river discharge



