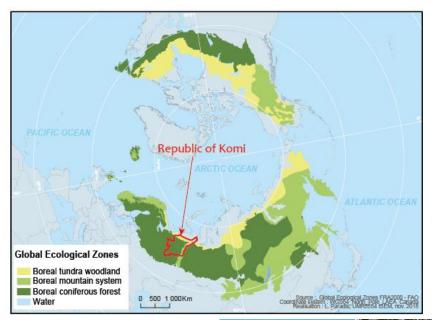
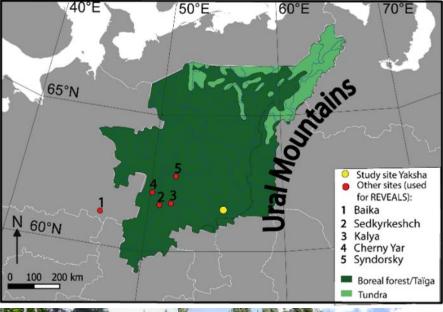


Republic of Komi





Light taiga (Pinus sylvestris) and dark taiga (Picea spp, Pinus sibirica, Abies sibirica) following hydrographic network



Pinus sylvestris

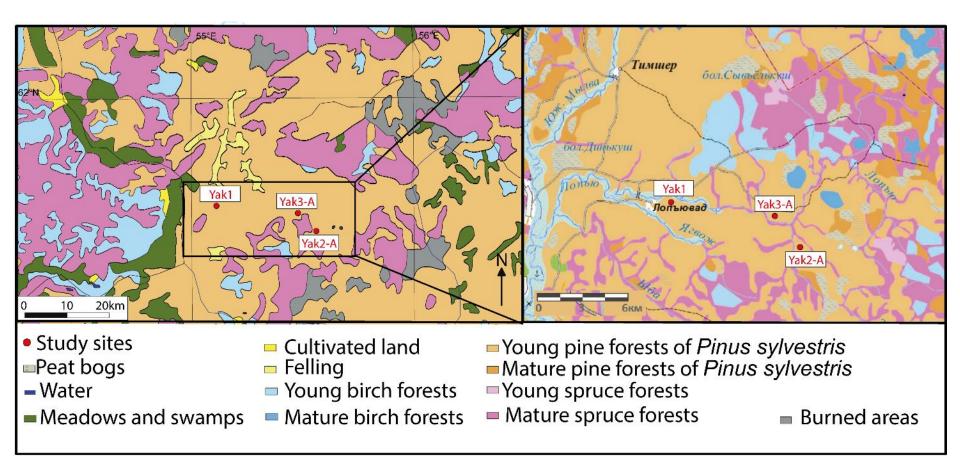
Betula spp.

Picea spp.

Pinus sibirica

Abies sibirica

Yaksha study site



http://gis.rkomi.ru

Climate reconstruction

Method

2 proxies





 GDGTs (Glyceryl Dialkyl Glyceryl Tetraether)

Discovery phase

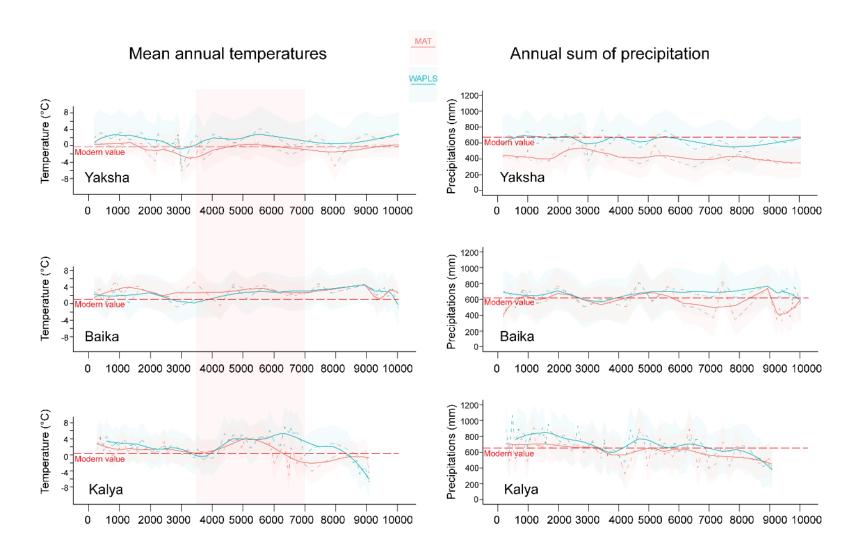
Molecular biomarkers



2 methods to reconstruct past climate variability

- MAT &WAPLS (Guiot, 1990; ter Braak and Juggins, 1993)
- Calibrations de différentes régions (MAT Peterse et al., 2012; MSAT Foster et al., 2016; MAATpeat Naafs et al., 2017)

Reconstruction of Holocene climate variability from pollen grain transfer functions



Average annual temperatures by GDGT calibrations



