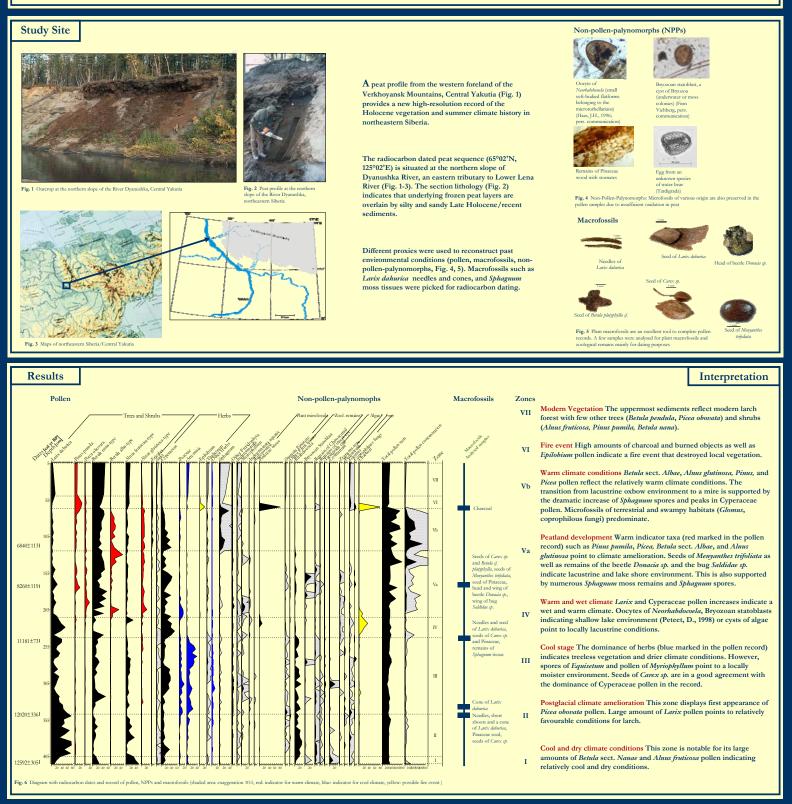


Holocene Vegetation History of the Verkhoyansk Mountains Foreland, Northeastern Siberia

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Conclusions

The presented data provide a high resolution record of the Holocene vegetation and climate changes in Central Yakutia, northeast Siberia. Early vegetation of herb and shrubs indicating relatively cool and dry conditions possibly evidence the Younger Dryas cooling. A climate optimum after 10 cal kyr BP is in good agreement with other pollen records in northeast Siberia (Anderson et al., 2002; Pisaric et al., 2001).

The onset of peat formation between 11.5 and 9 cal kyr BP at the Dyanushka site is consistent with the increased peatland expansion in western Siberia (Smith et al., 2004). It is assumed that postglacial peatland formation in Siberia markedly contributed to the global increase of atmospheric methane concentration during the Early Holocene. Future work should seek for the role of peatlands in Eastern Siberia.

Western Sherin: Boreas, 27, 115-126 Beringia, hused on pollen, stomate and tree stump evidence: Quaternary Science Reviews, 20, 235-245 thon Sink and Global Methane Source Since the Early Holocene: Science, 303, 353-356