Integrating variable traits and inheritance into the individual-based model LAVESI for evaluation of their importance for larch forest performance under future adverse conditions Josias Gloy, Ulrike Herzschuh, Stefan Kruse



Background

- Siberian boreal larch forest covers a large area
- Changing climate leads to vegetation changes
- taking adaptive traits and inheritance into account predictions will be more realistic

How do adaptive traits change simulation results? How are predictions affected by these changes?

Methods

- Modelled species: Larix gmelinii
- -Vegetation model LAVESI
- -Adaptive traits through mixed inheritance

Considered traits:

-Migration meliorated by seed weight Continuous climate warm enough for tree growth -Survival: drought resistance Sensitivity test. Climate being raised to future conditions after initial phase



Acknowlwdgement This work is part of the ERC funded Glacial Legacy project