



## Miocene.

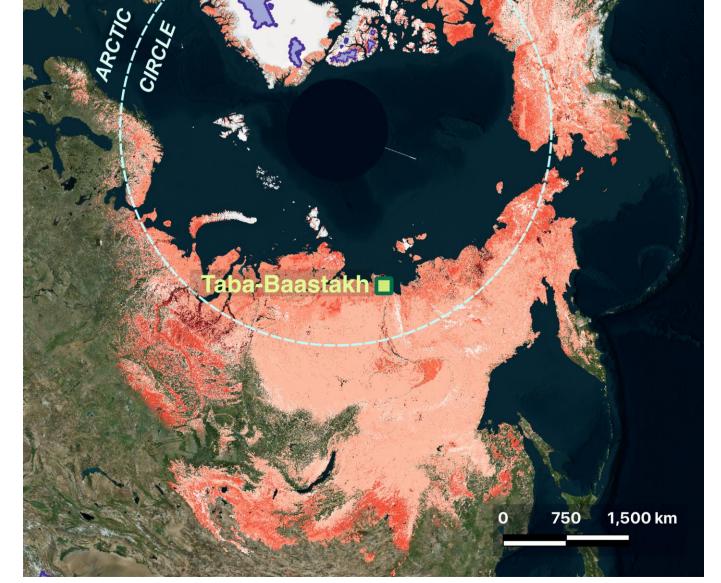
The late Miocene makes a great analogue for near-future climate change. Global average temperatures were ca. 4°C warmer than present<sup>8</sup>, with atmospheric  $CO_{2}$  up to 600 ppmV<sup>9,10</sup>.

Understanding environmental controls on permafrost during

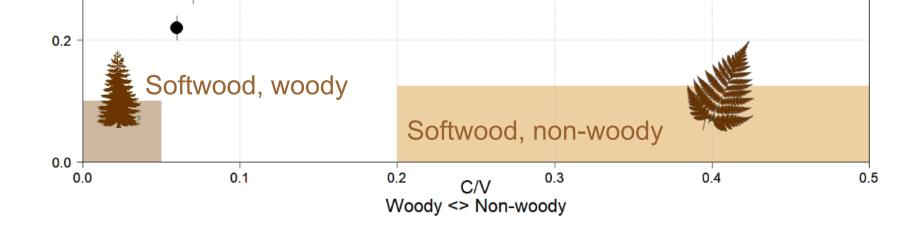
the Miocene can inform

projections of permafrost thaw

in the near future.



Areas of modern permafrost vulnerable to +20°C of warming<sup>11,12,</sup>. Only a few patches in Greenland and northern Canada remain.



The types of lignin extracted from the speleothems suggest the presence of softwood (pine, fir) forest. This is supported by fossil pollen evidence. Today, Taba Bastaakh sits north of the treeline.

## References

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