

Near-shore permafrost degradation in Siberia

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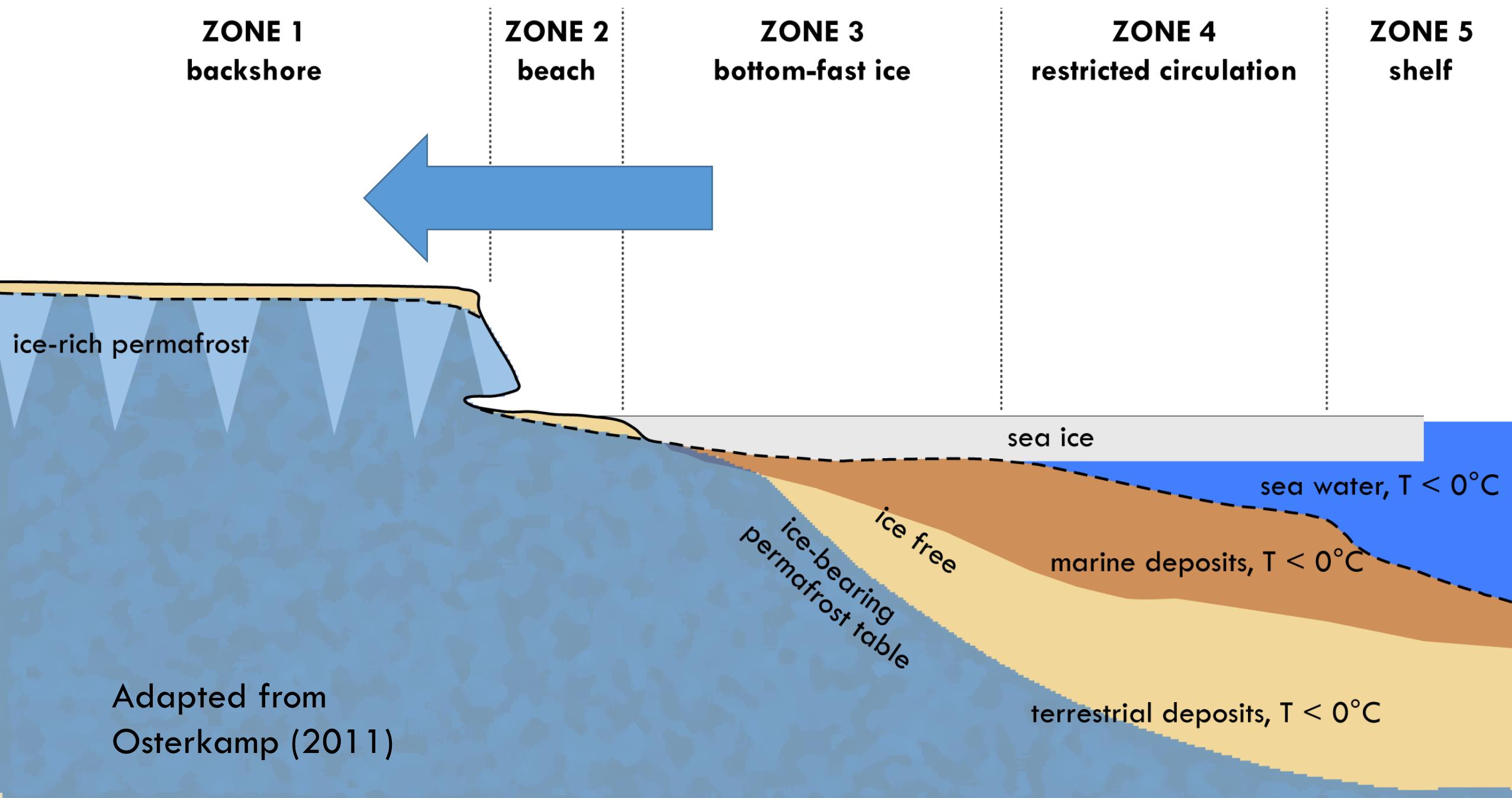
Trond Ryberg

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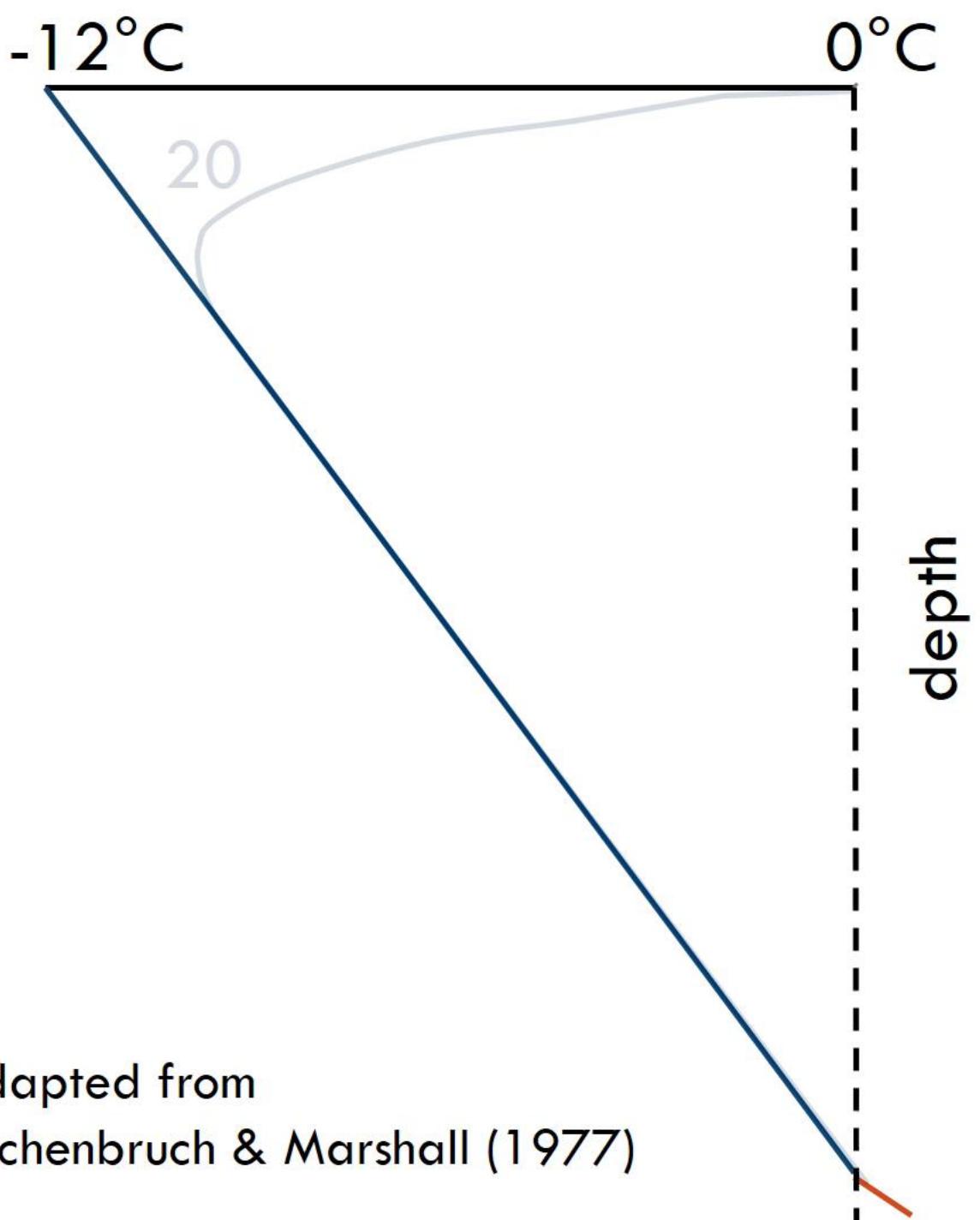
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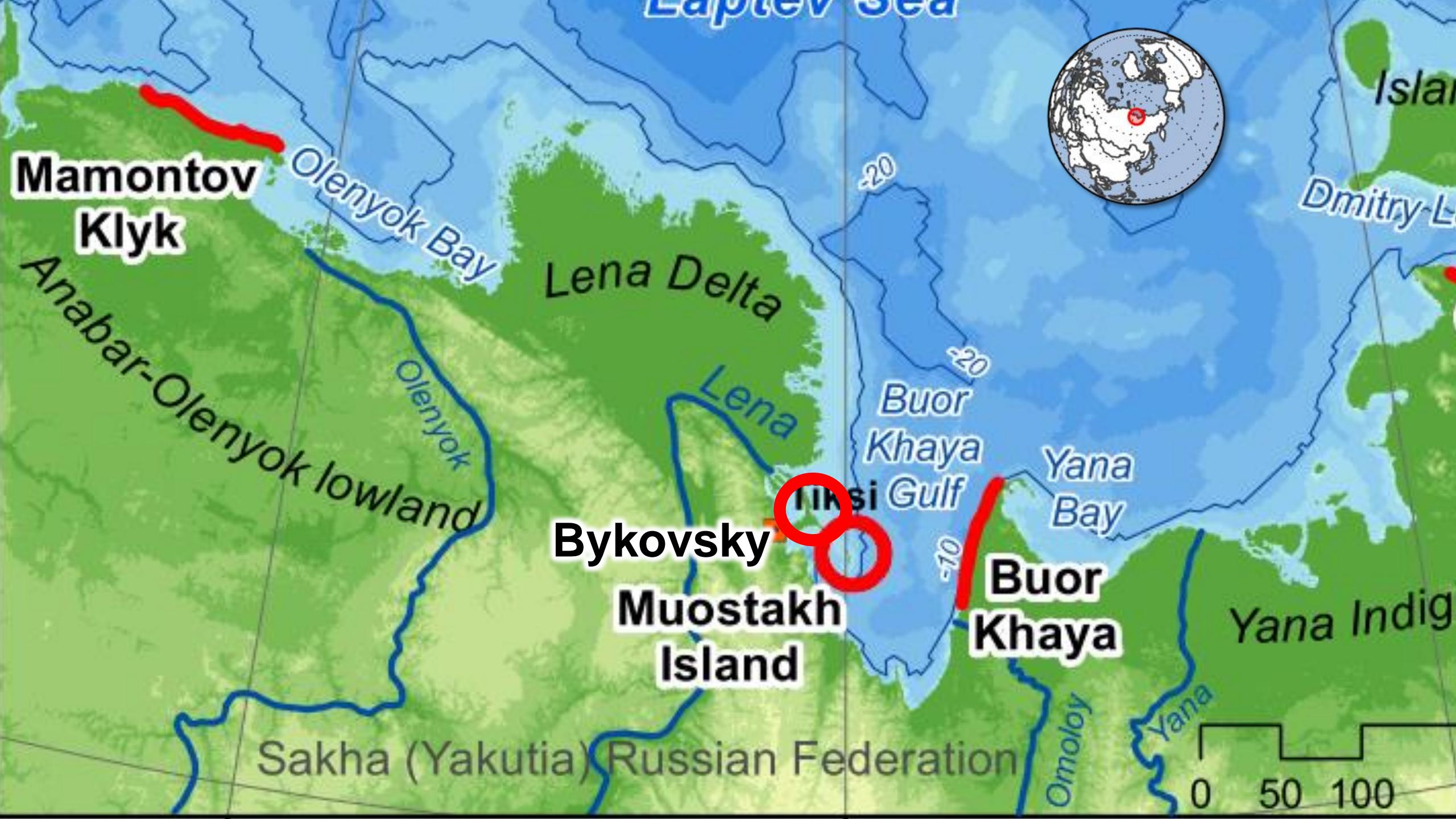




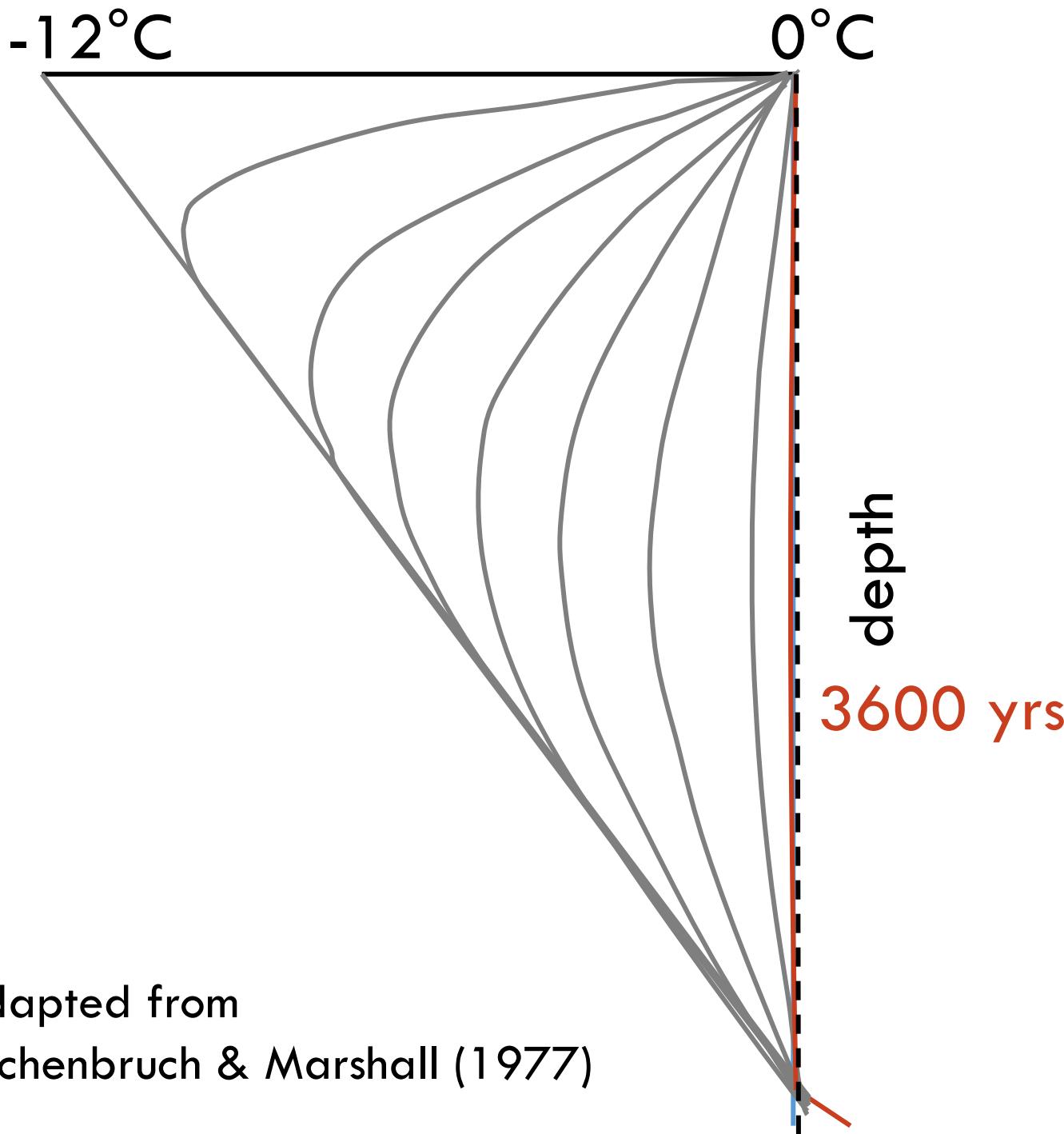




Adapted from
Lachenbruch & Marshall (1977)

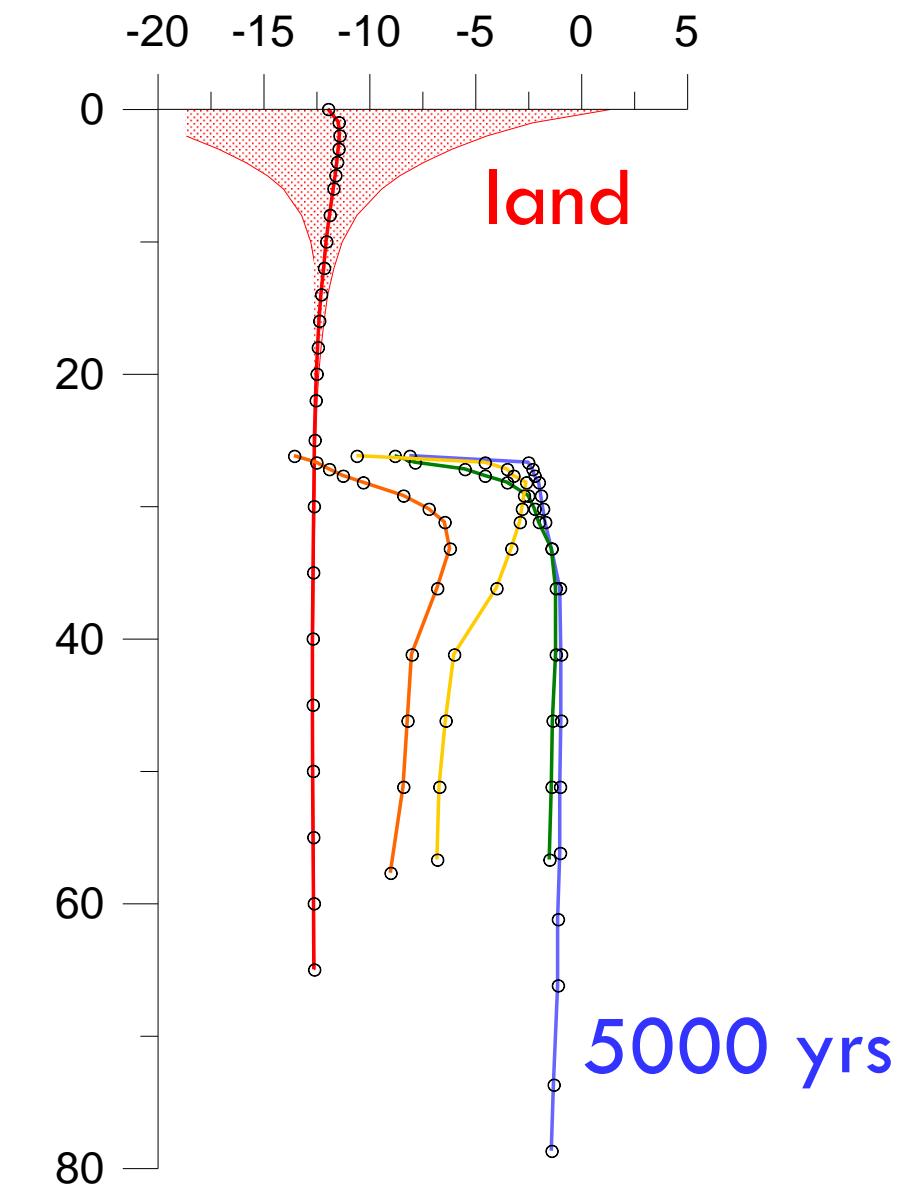


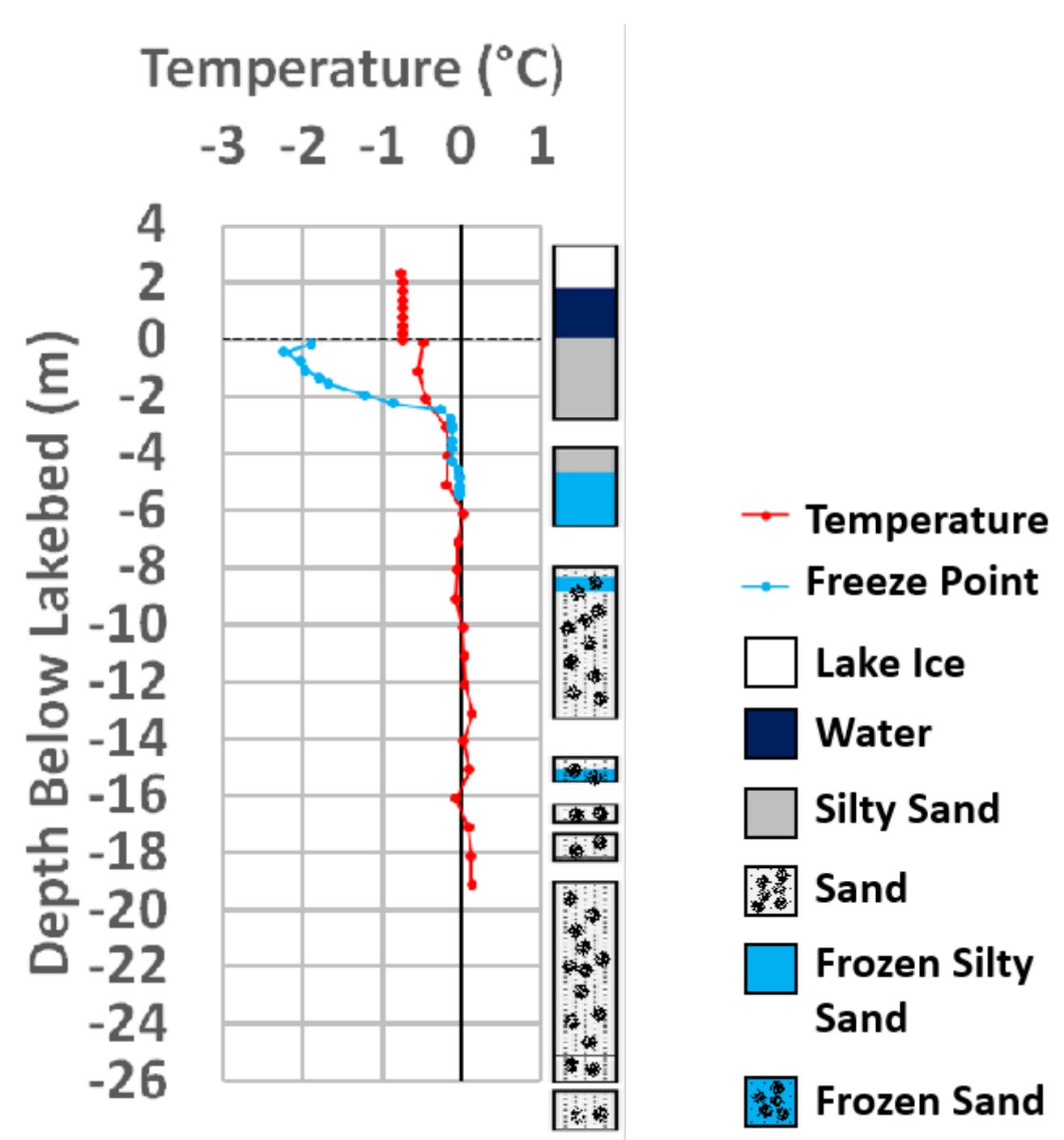
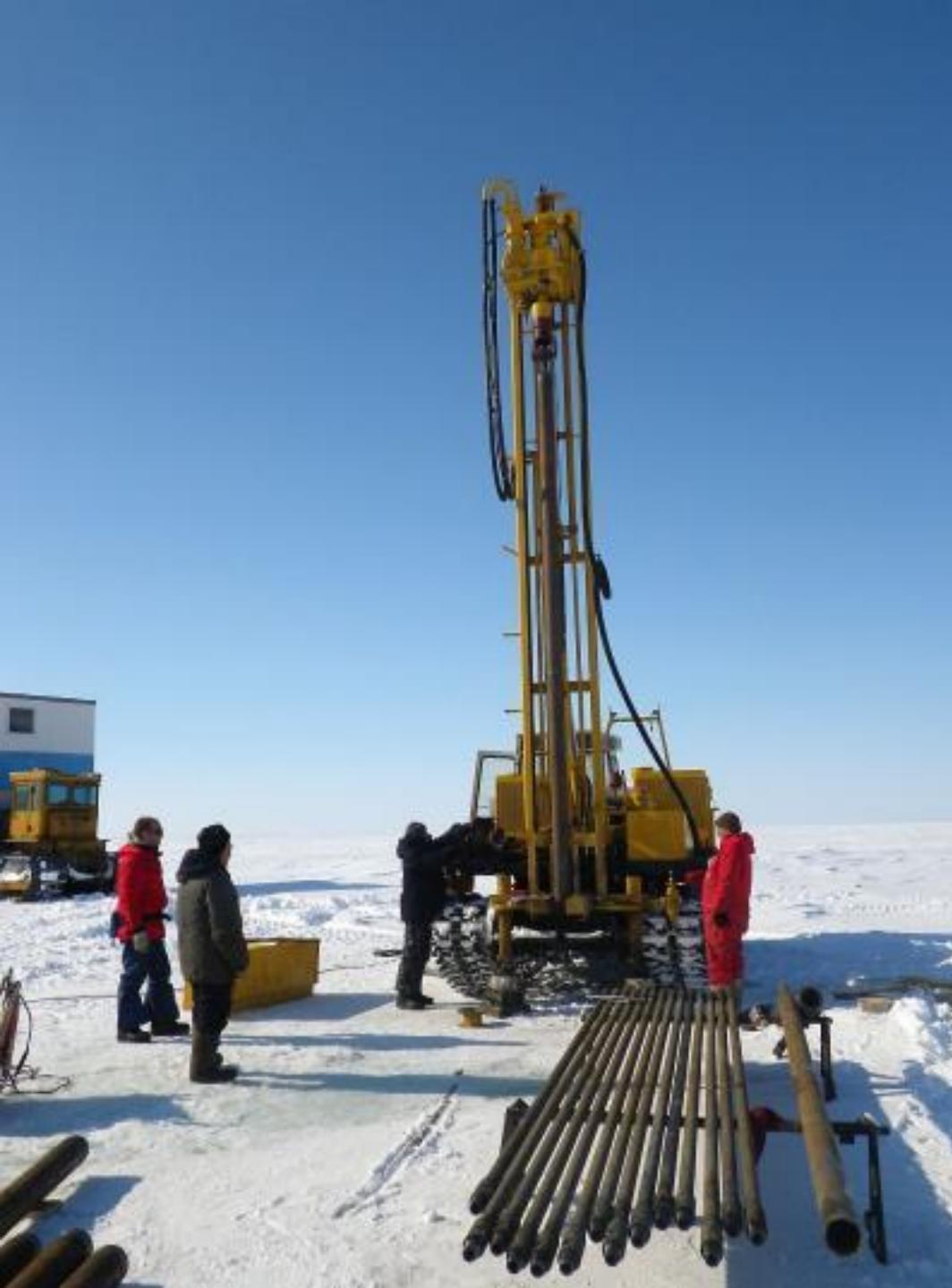




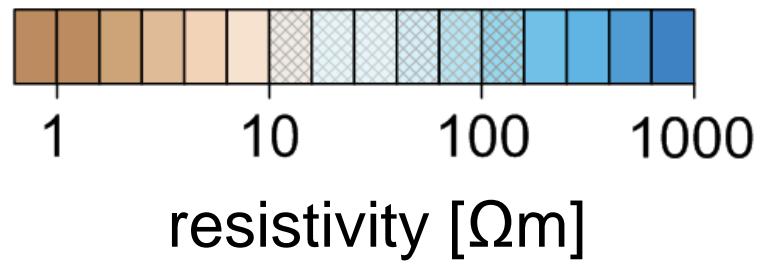
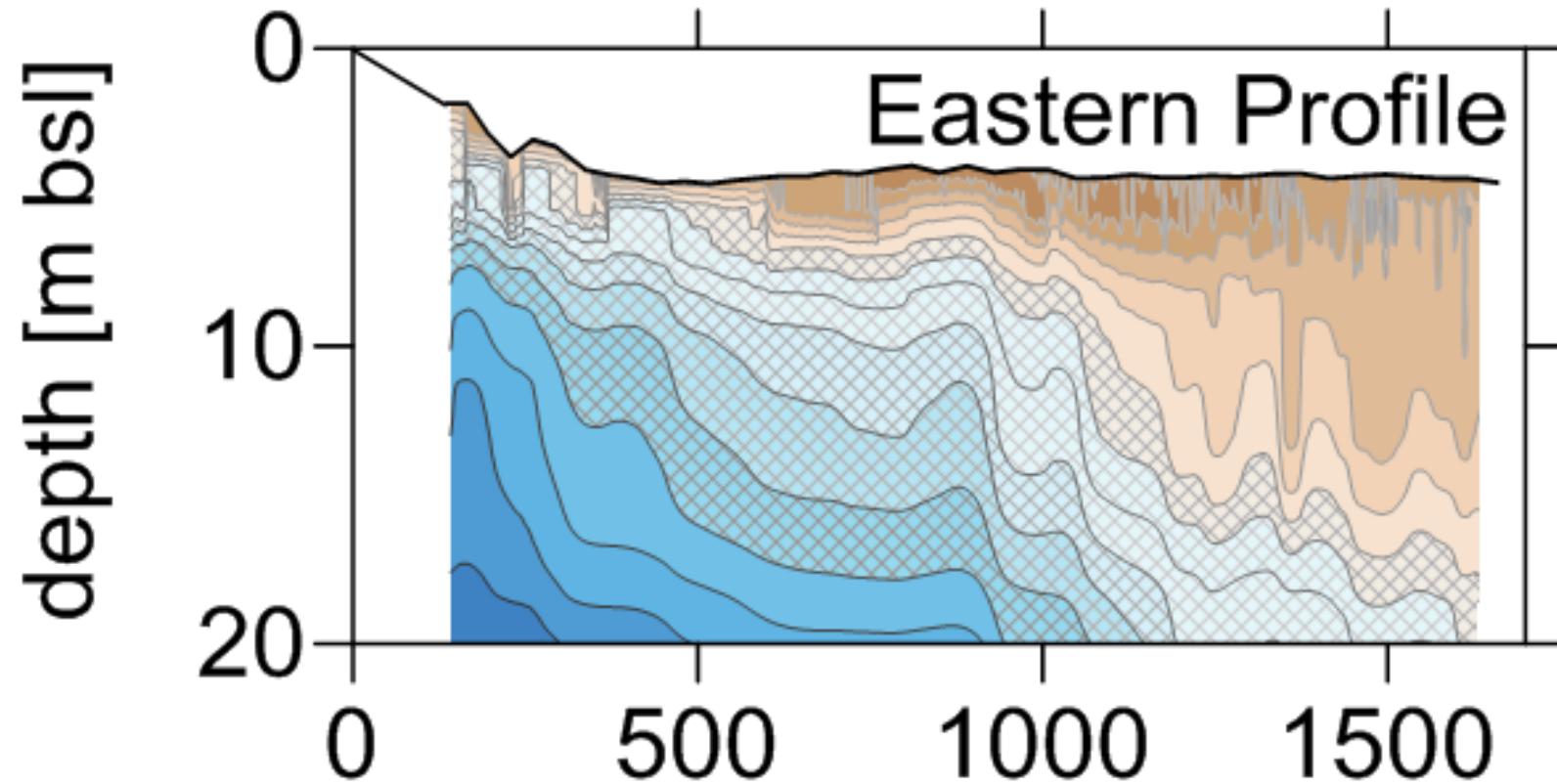
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Lachenbruch & Marshall (1977)

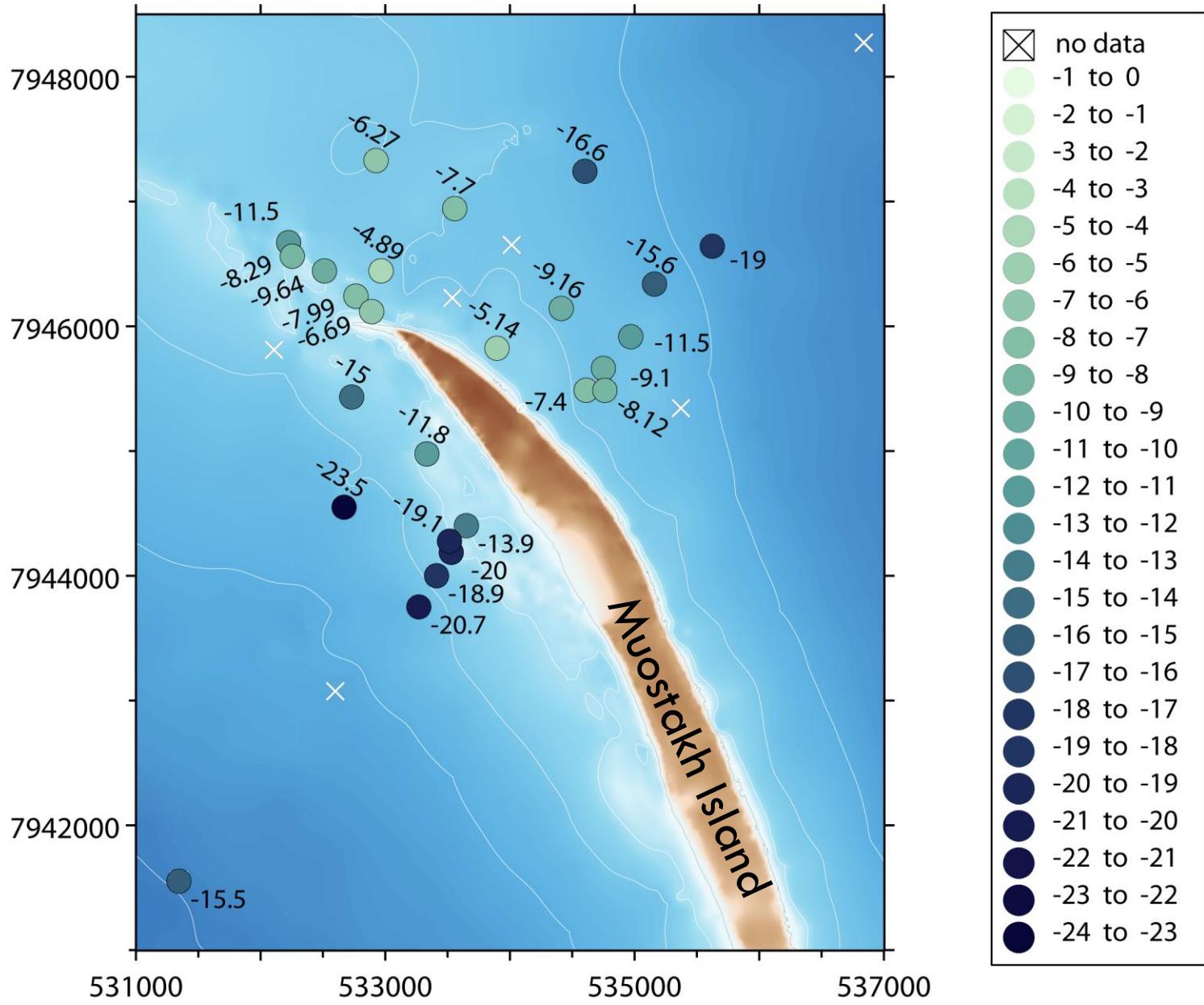
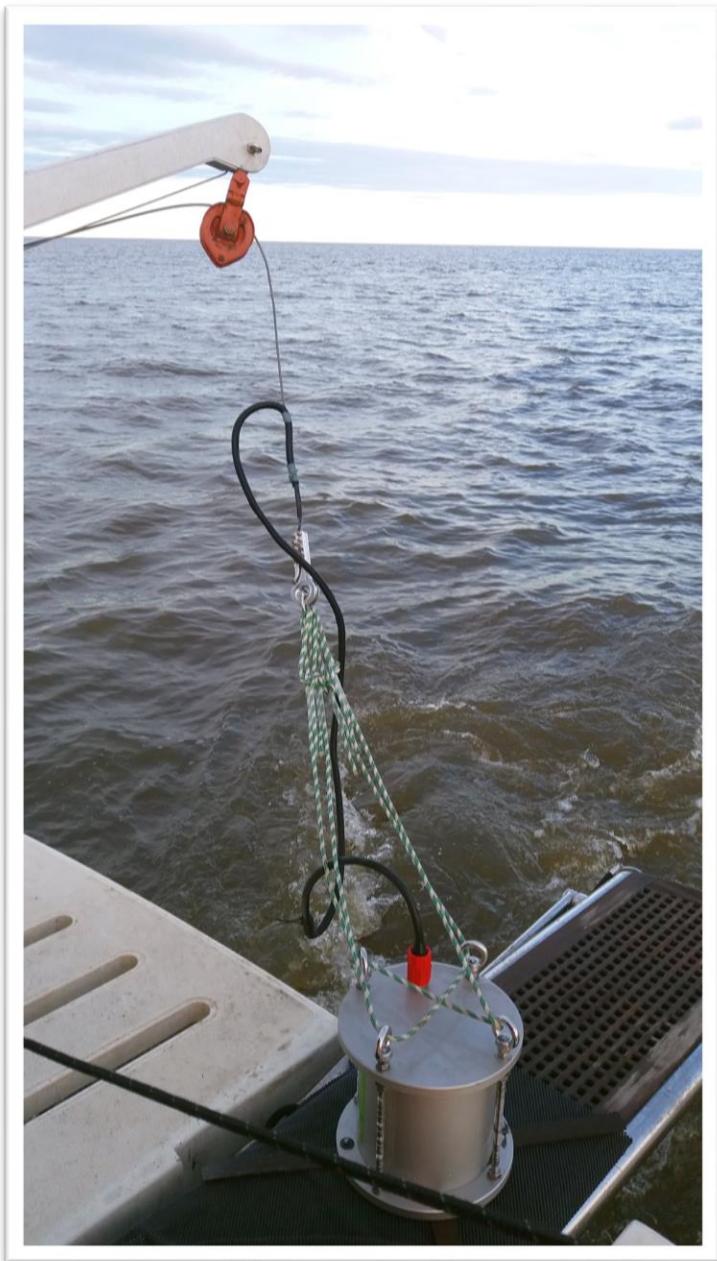
Permafrost temperature Cape Mamontov Klyk

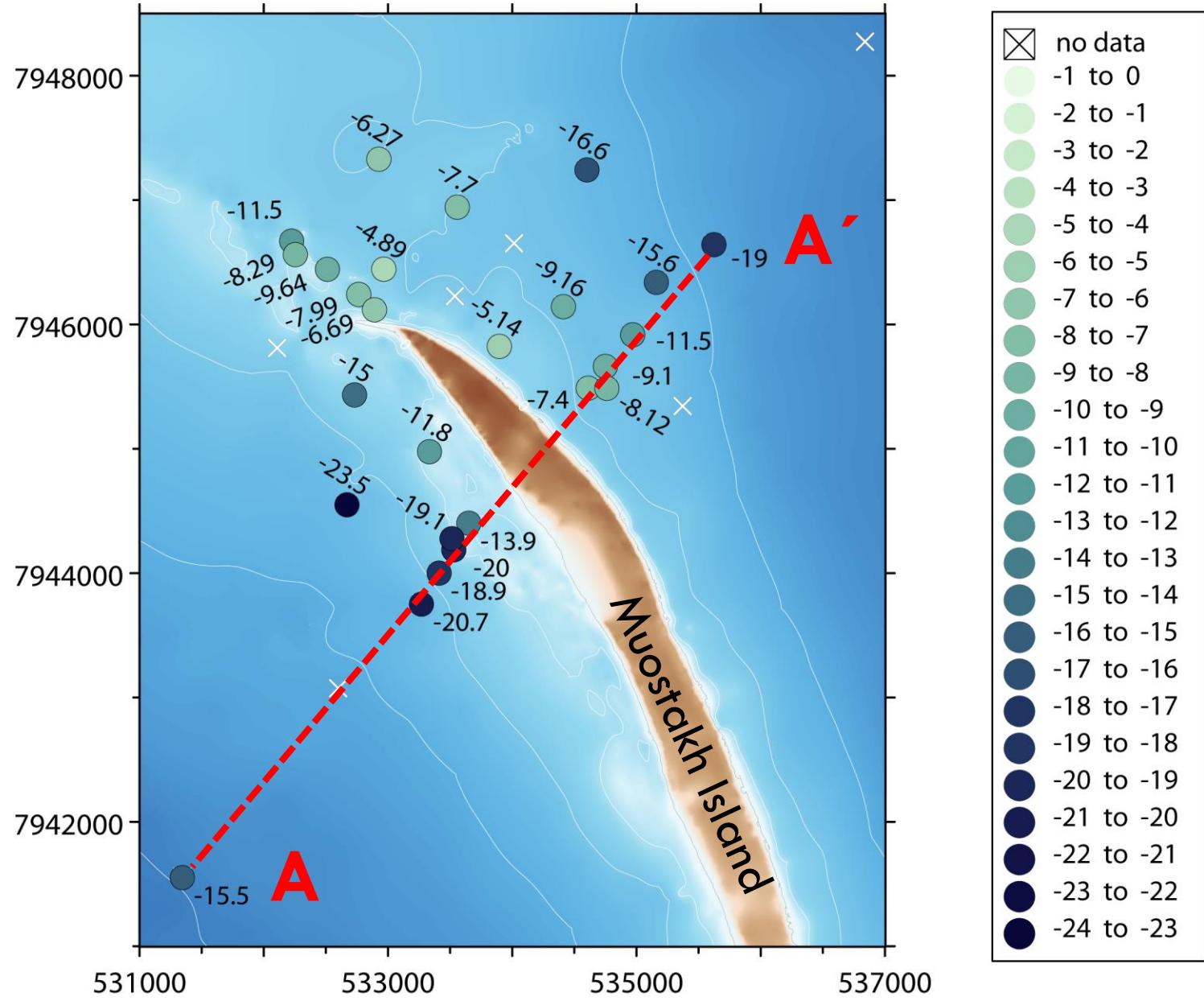
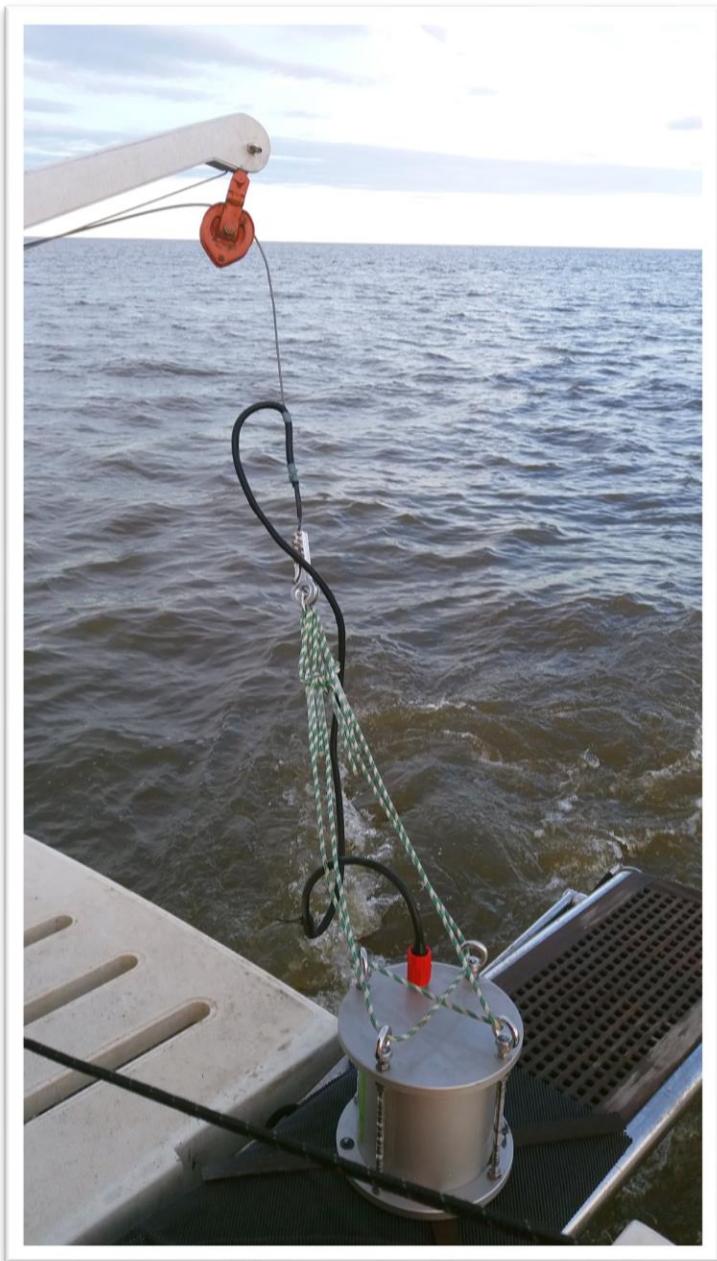


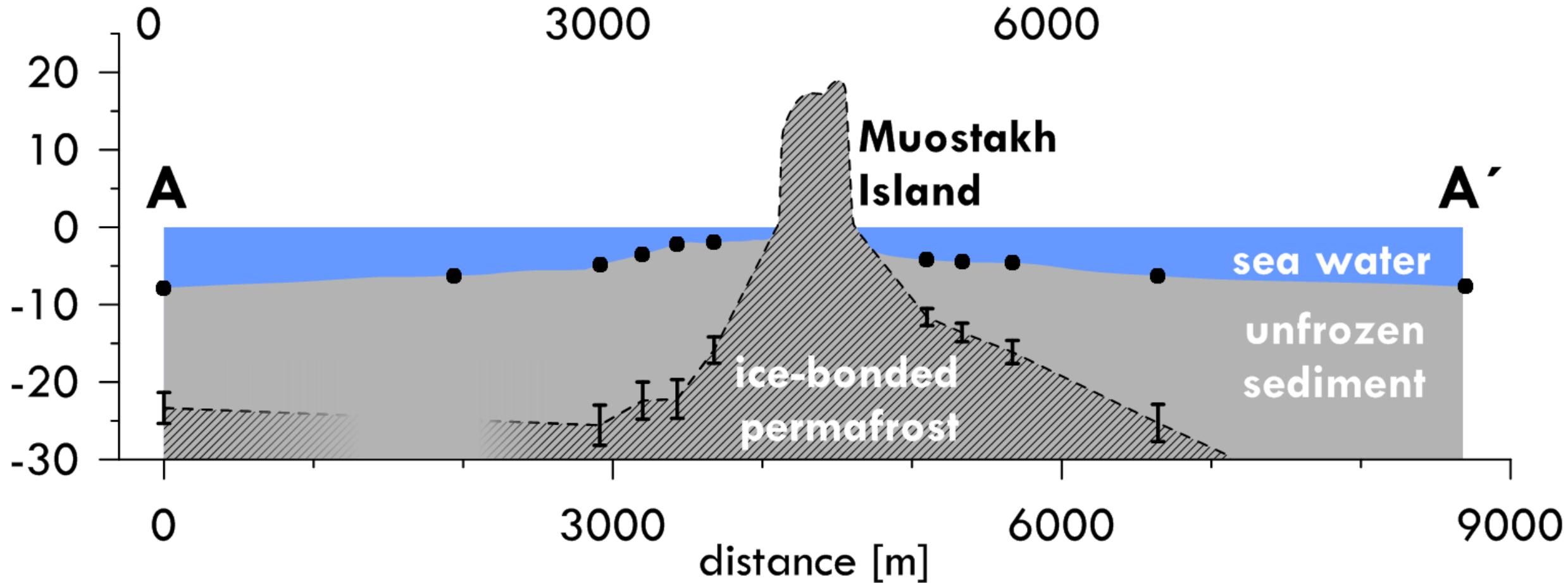


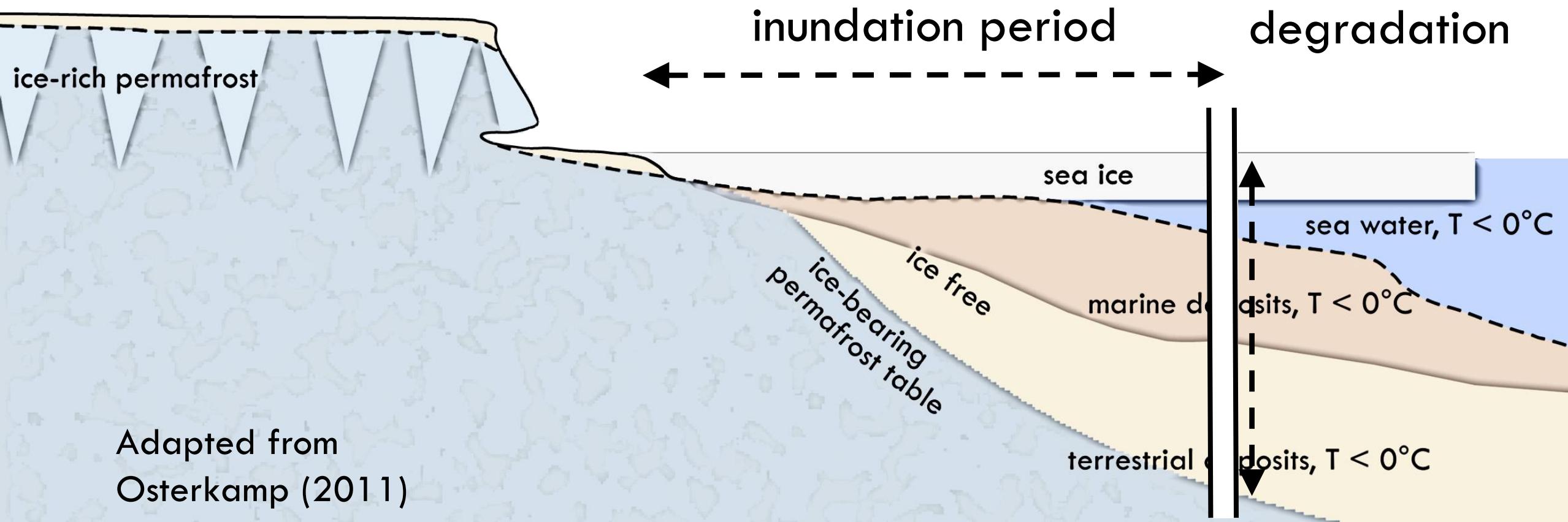












Adapted from
Osterkamp (2011)

Summary

- permafrost temperature changes rapidly following inundation
- thawing of permafrost takes longer (m to mm per year)
- frozen sediment is preserved for millenia and longer, depending on permafrost temperature and composition before inundation