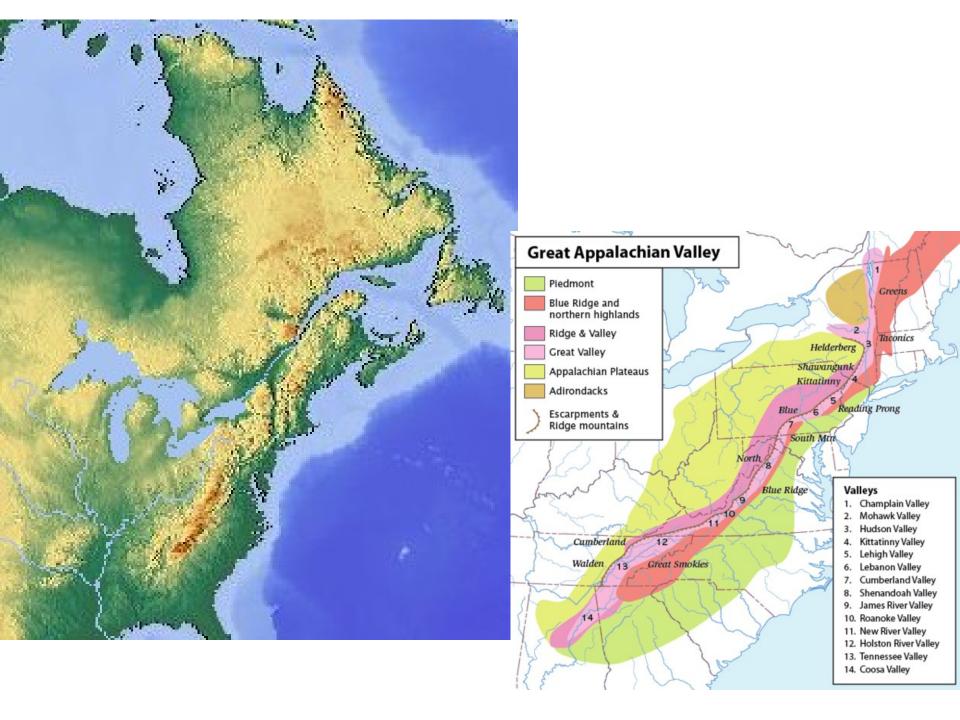


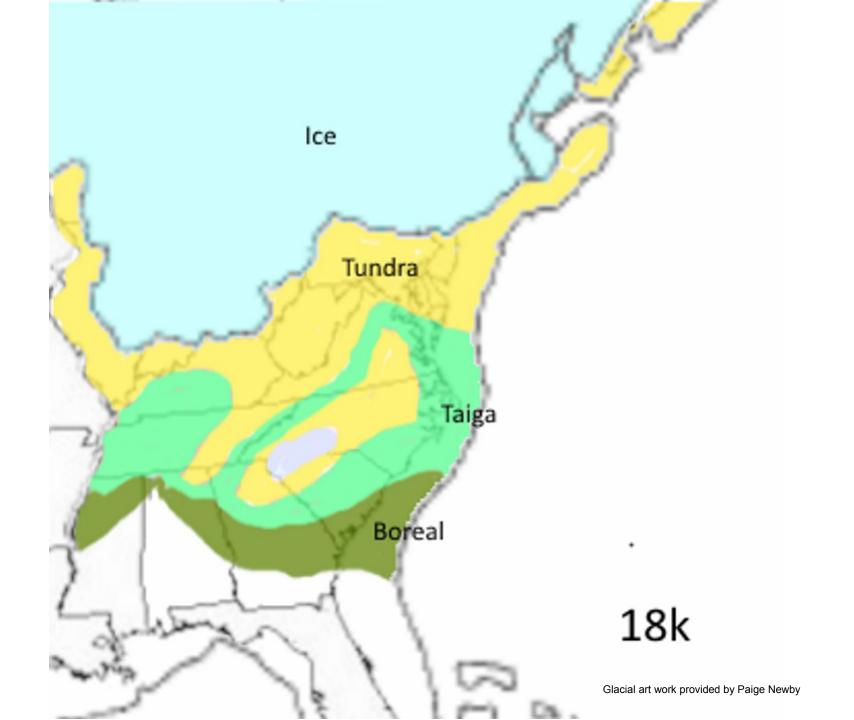
## Climate, Vegetation and Caribou

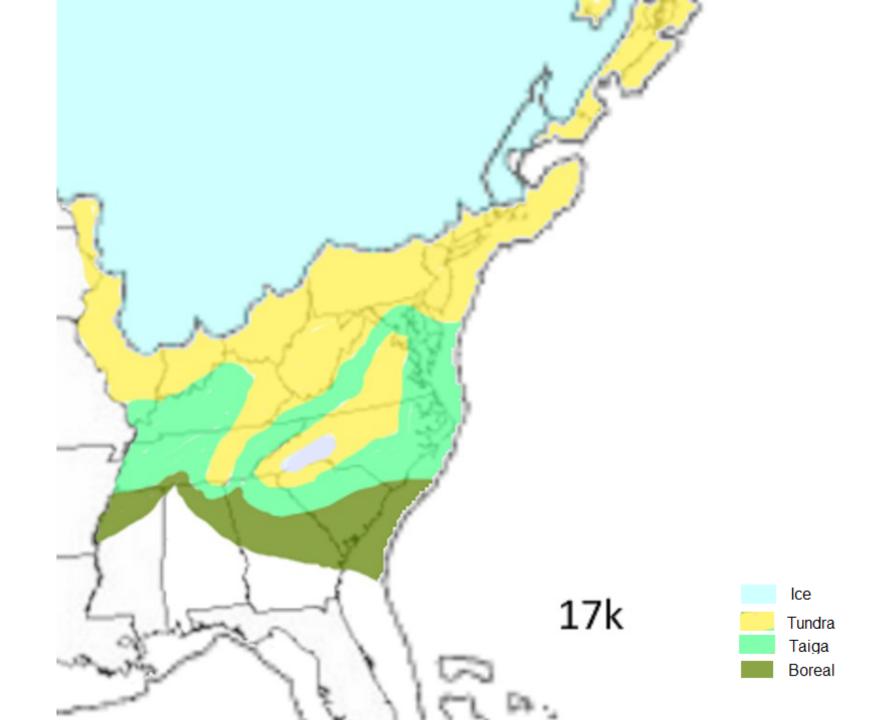
In north-eastern North America from 16.5 ka to 7 ka

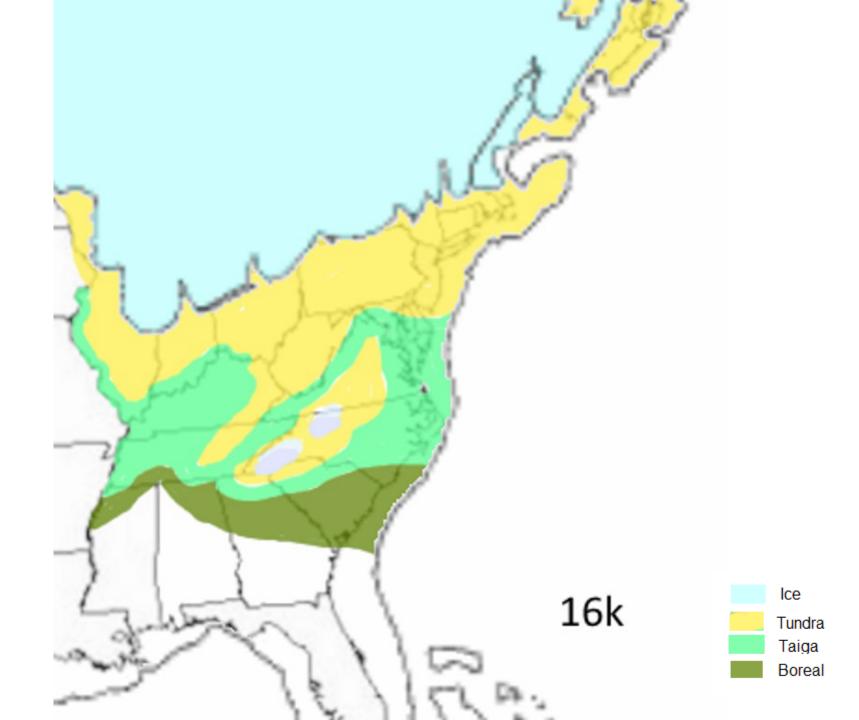
A time of real climate change

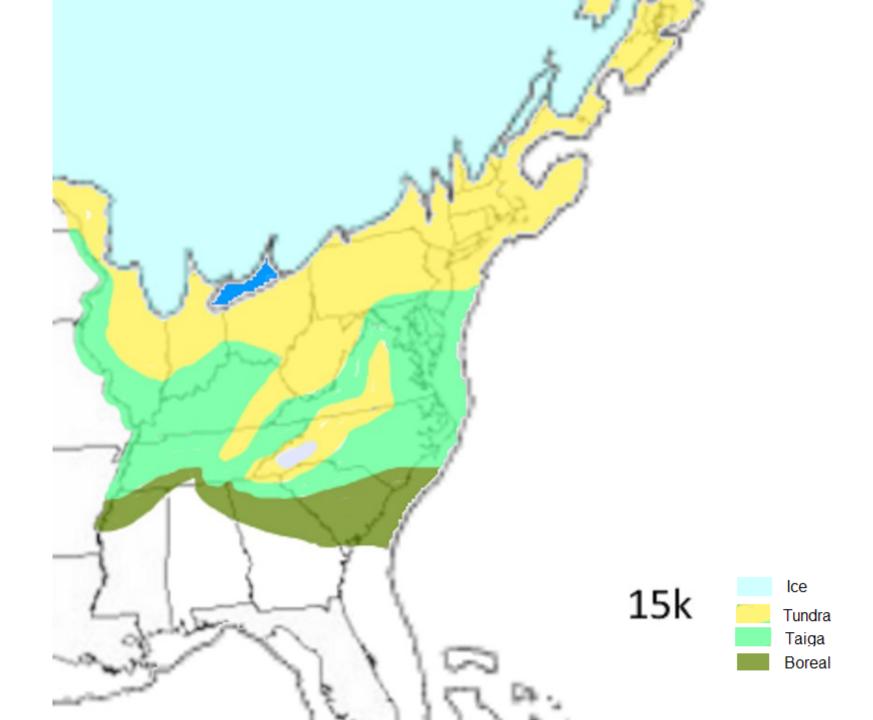
Don Gribble 2017

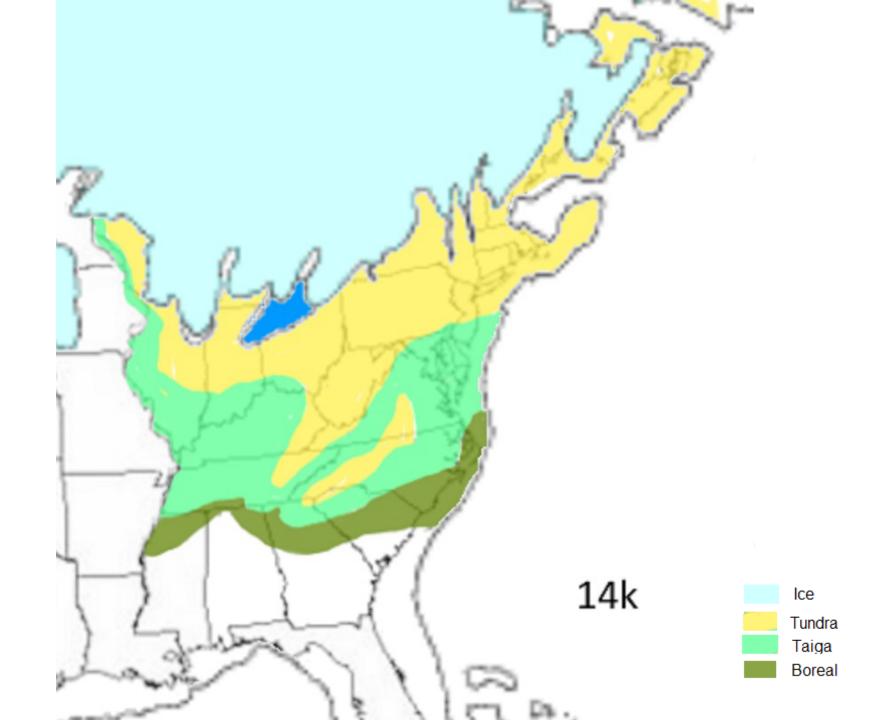


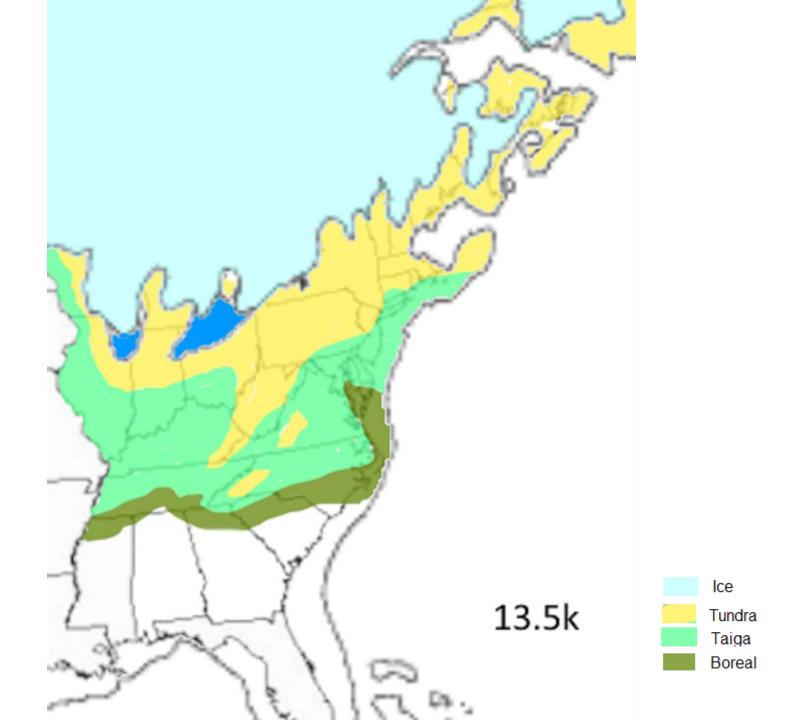


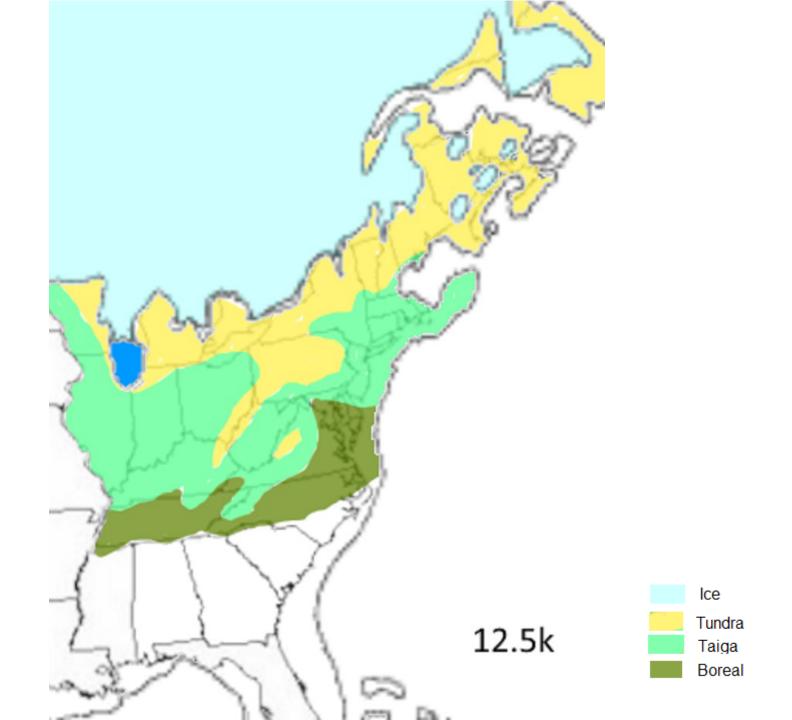


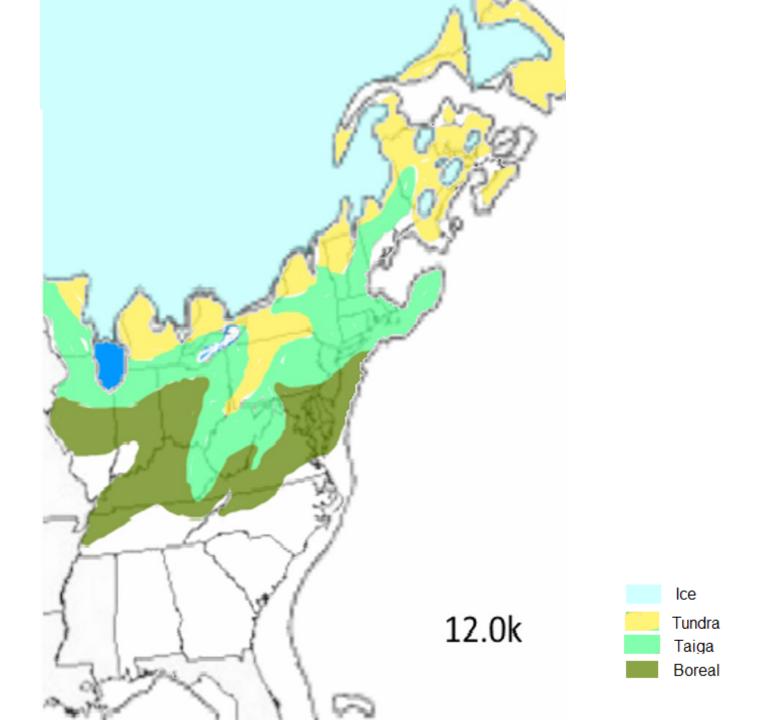


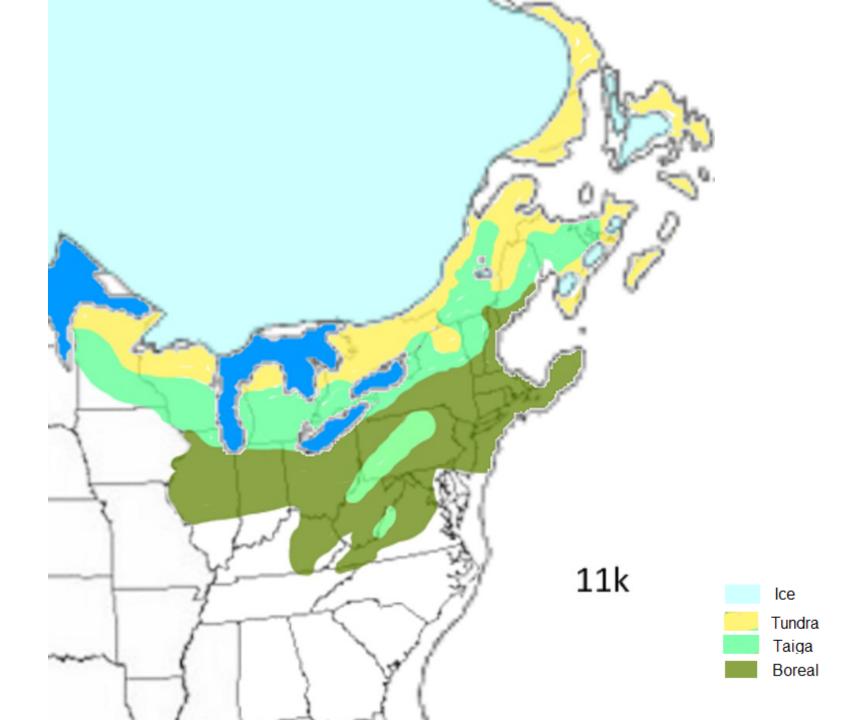


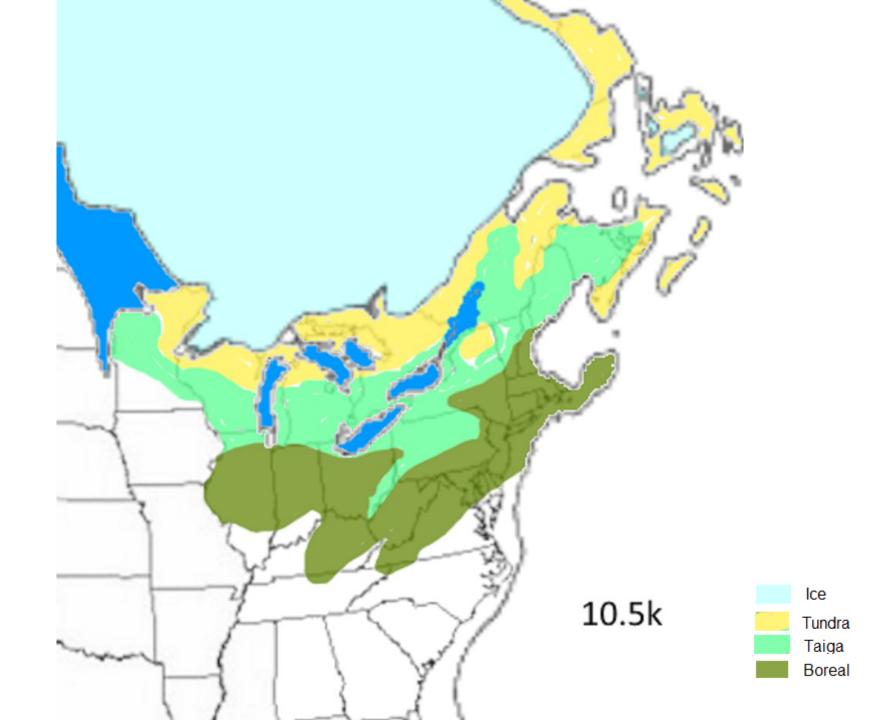


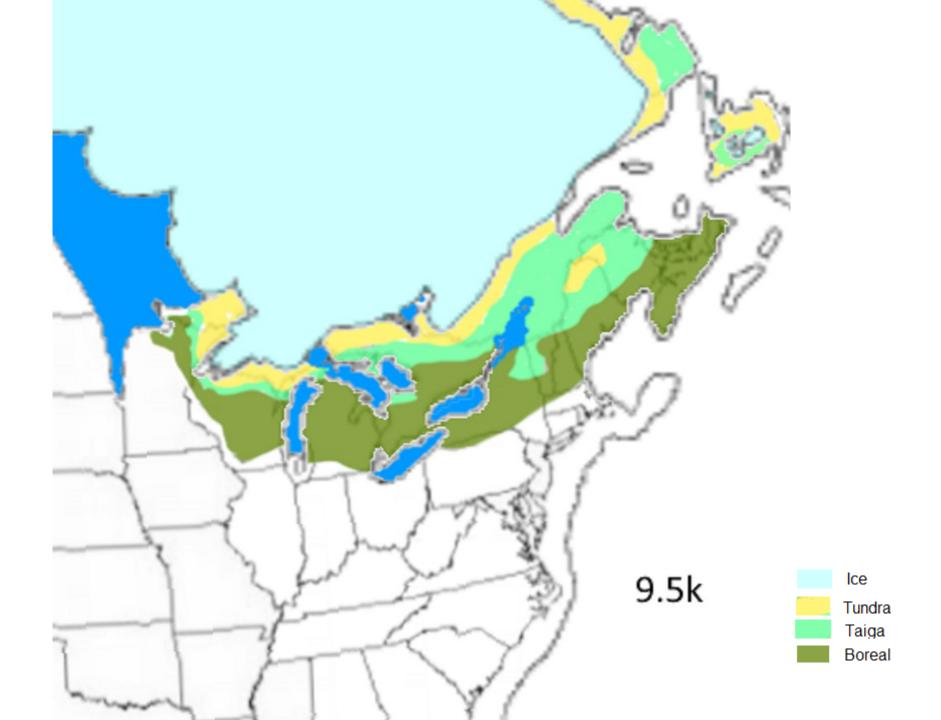


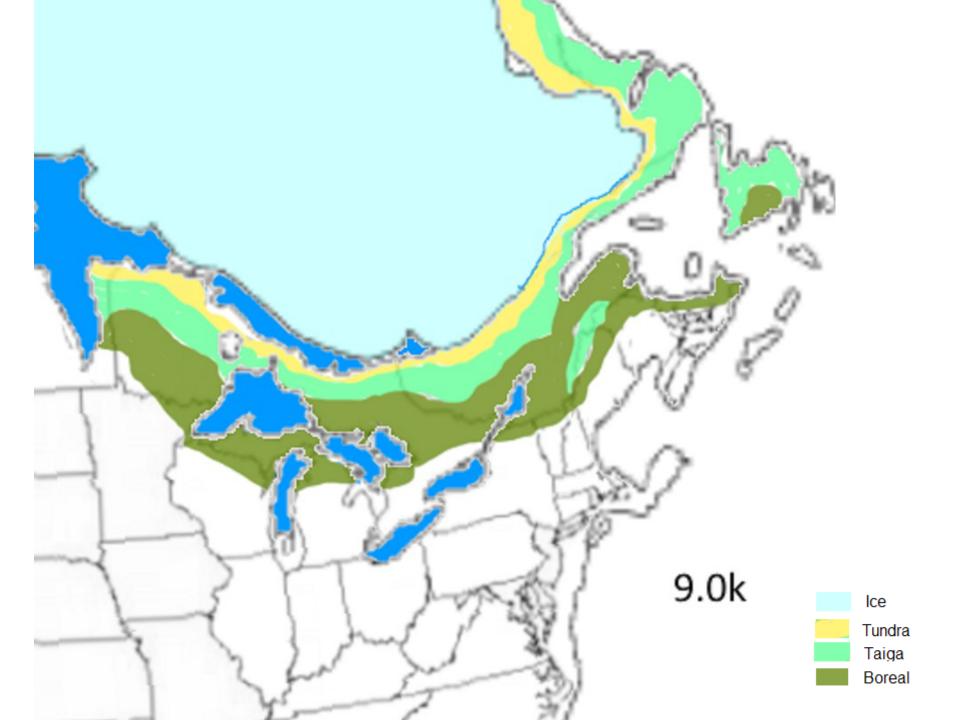


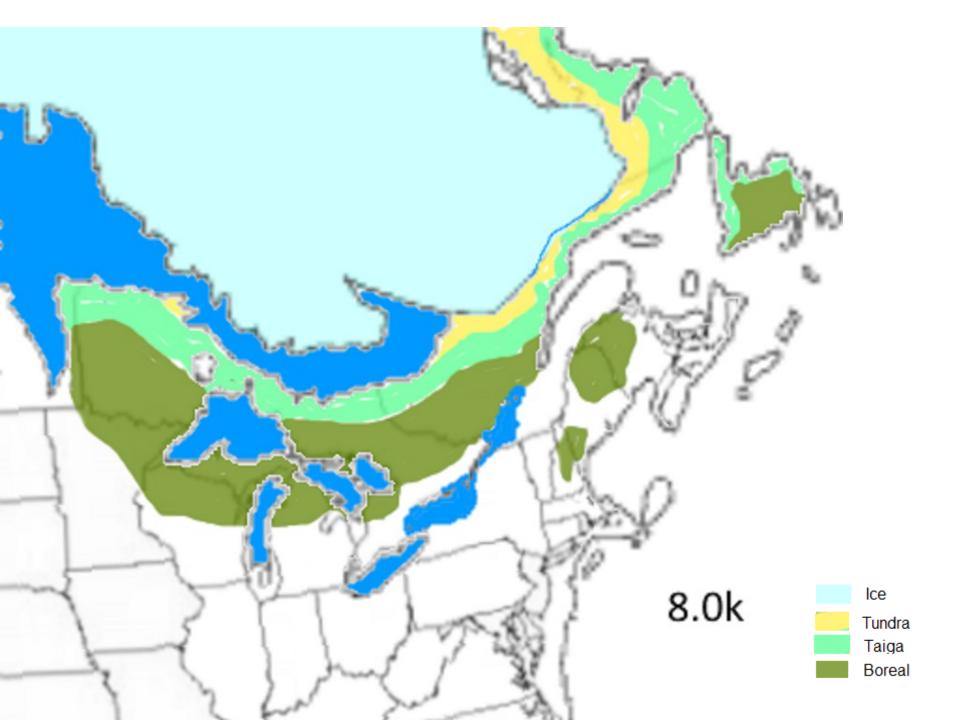


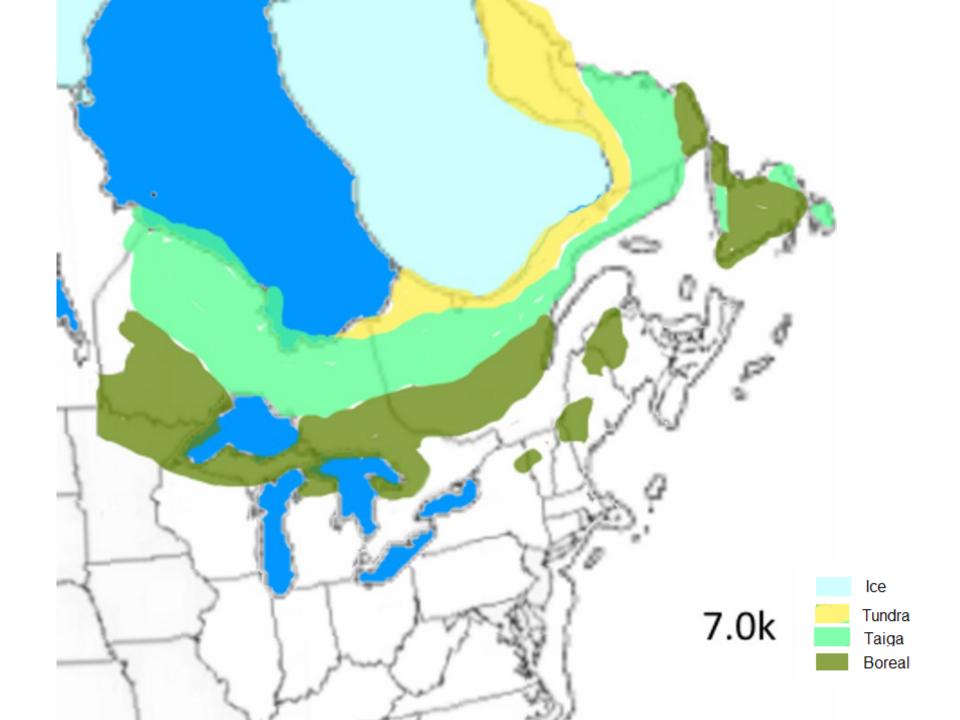


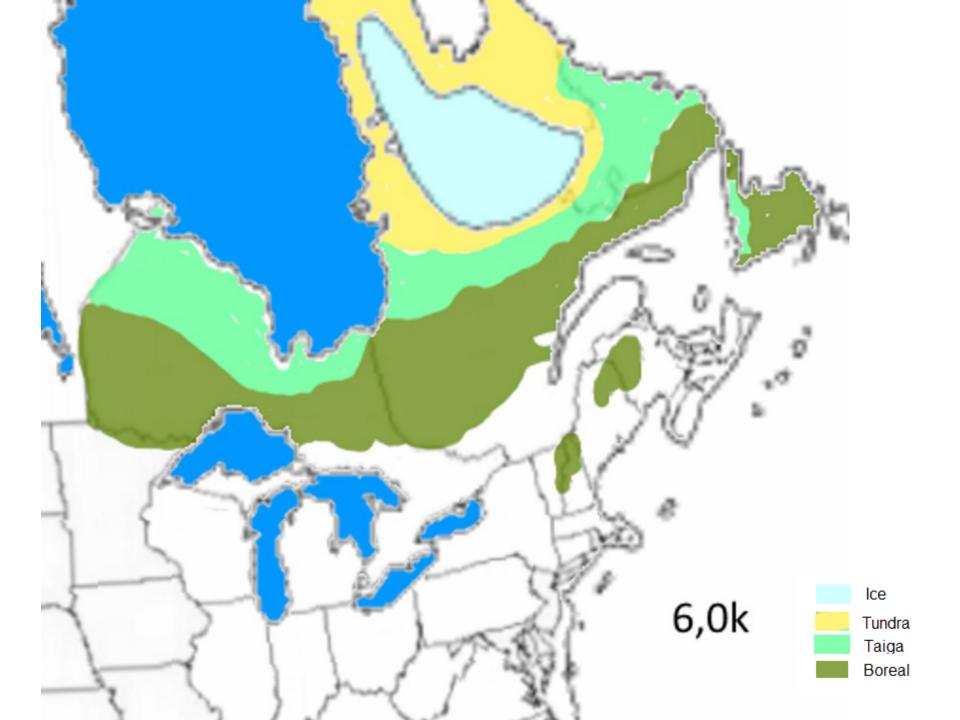


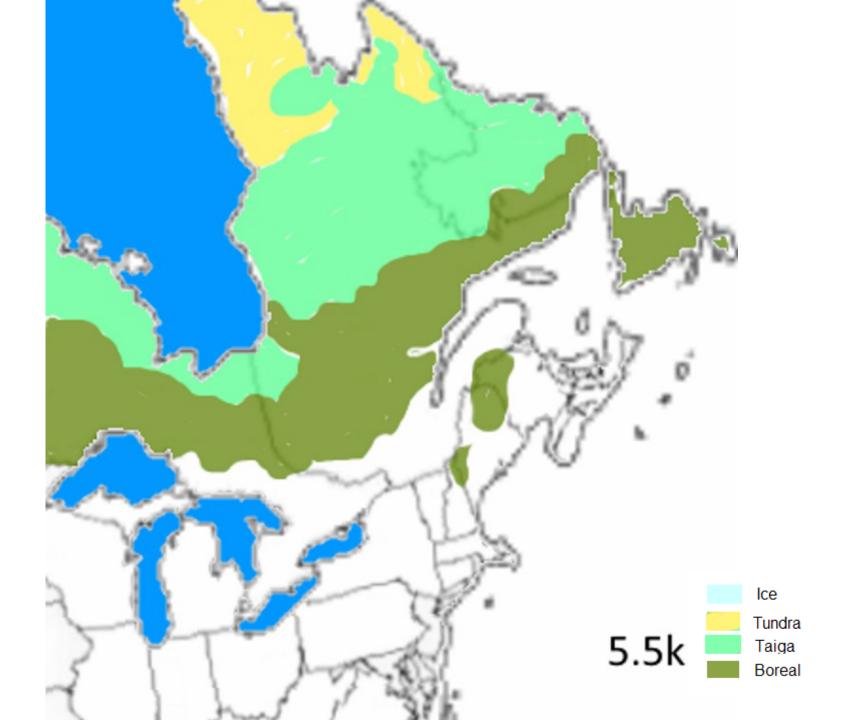




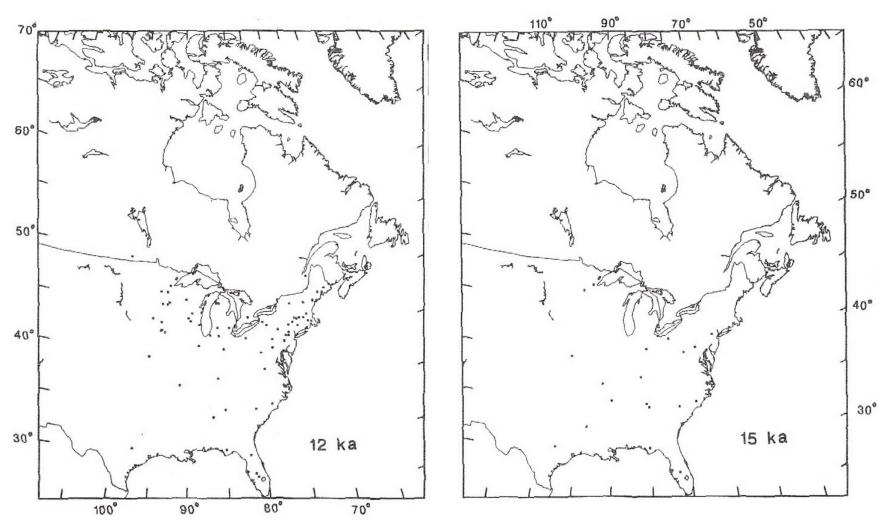








## Very few ancient pollen sites



## Conclusions

- Appalachian refugium was ideal for large caribou herds
- With early glacial retreat caribou habitat expanded
- The Younger Dryas stabilized habitat in Ontario, Southern Quebec and New England
- Southern habitat isolated to high elevations
- Post Y.Dryas boreal advance squeezed habitat north
- Corridor of suitable habitat opened along north shore St.Lawrence to Labrador about 9 ka (or earlier)
- Caribou thriving in Ungava today came from Appalachia
- Did herds cross from N.Ontario or south shore and N.E.?