

**reindeer influence vegetation; here
timberline is depressed by 400 m**



And this has impact on ground albedo

Norway: inland grazed in winter only and then reindeer do not touch woody plants



Finland: summer grazing in inland \Rightarrow forests have changed to "savannas" with only scattered trees,



Oven fresh results of our climate team

- Juval Cohen (Israel/Finland, Aalto University) recruited March 2011
- Calculations about differences in energy balance between comparable areas in Norway (no summer grazing) and Finland (intense summer grazing) in process, areas 42 by 45 km
- Results for March-April 2011: The Norwegian side produced so much more thermal energy that it had melted an ***ice block of 1 km by 1 km by 113 m!***

And that was in the inland, where low precipitation
limits canopy cover of trees and shrubs

Impact in coastal areas is probably greater because
canopy cover can be much higher

Grazed valley on Sievju / Seiland



Ungrazed valley; same island

