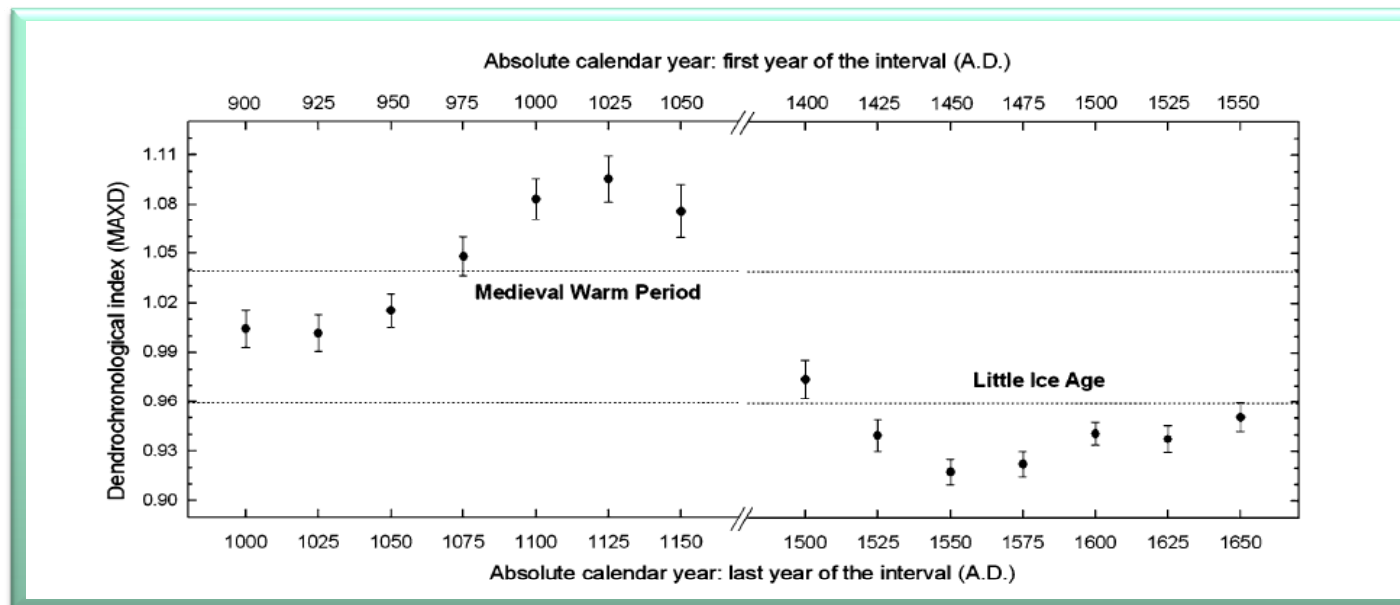


Far away from the timberline

Is there still a climate signal there?

By using high resolution radiography, S. Helama and co-workers were able to analyse a set of 64 sub-fossile samples of *Pinus Sylvestris* from the south of Finland, covering the period from 673 to 1788 AD. From the density profiles generated from the radiographic images, the authors were able to obtain a large number of growth characteristic parameters, including minimum density, early and late wood boundary density, maximum density, earlywood width, latewood width, earlywood density, latewood density, annual ring width and annual year ring average density. By removing non-climatic growths trends they could show that trees growing far from the timberline still have a distinct response to climate changes.



Enligt denna studie var det inte bara i de södra delarna av Finland som det var varmare under medeltiden, utan även i de norra delarna. Detta innebär att även i de norra delarna av Finland var det varmare under medeltiden än under den lilla istiden.



Read more : X-ray micro densitometry applied to sub-fossil tree-rings: growth characteristics of ancient pines from the southern boreal forest zone in Finland at intra-annual to centennial time-scales Helama S., Vartiainen M., Kolström T., Peltola H., Meriläinen J. Earth and Environmental Science on line 12/3 2008