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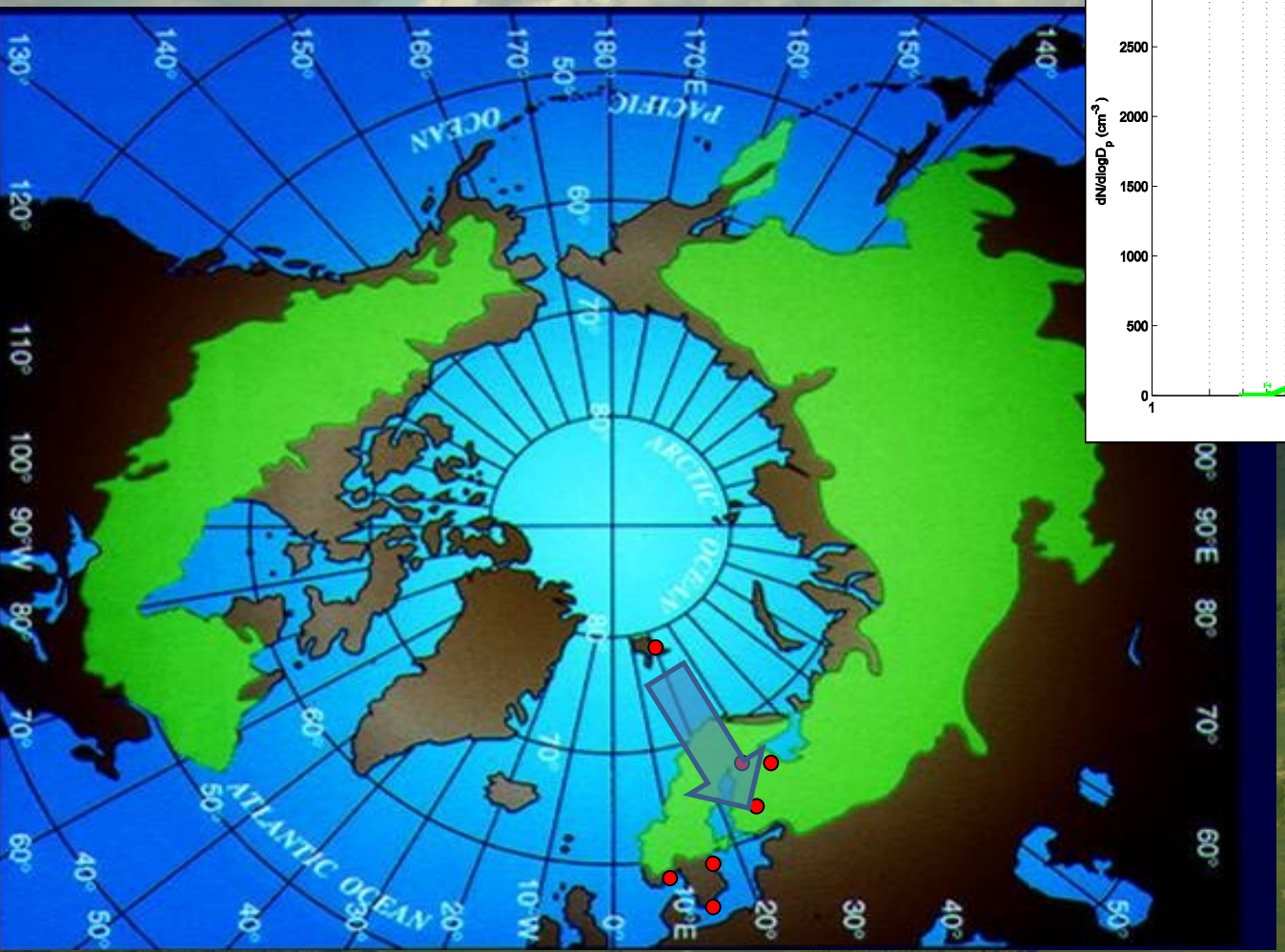
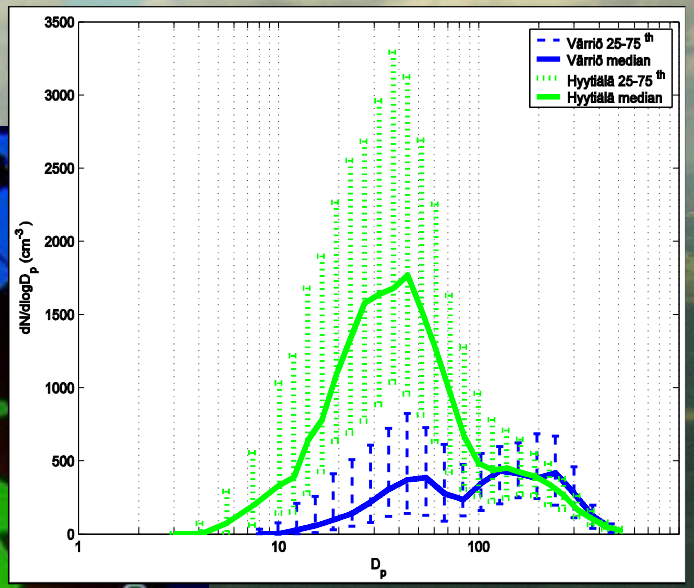
Main research interests

- **Regional transport of boundary layer aerosols**
- **Focus on aerosol properties as observed over the Fenno-Scandinavian boreal forest; formation, aging and deposition**
- **Extensive network of stations; Nordic long-term measurment sites: DMPS 10(3)-500nm**
- **Main research question: how much**

The boreal region

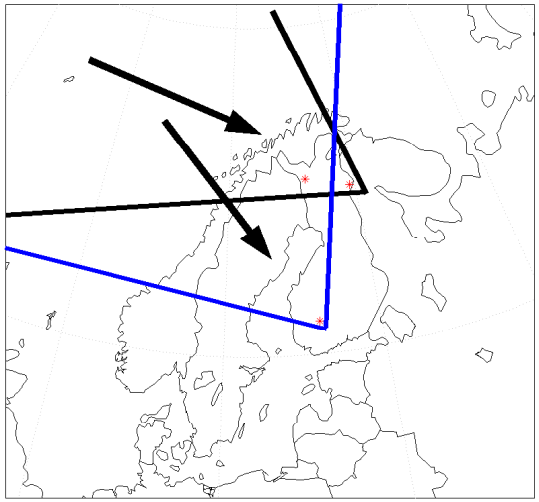
DMPS size distributions at 7 stations in northern Europe

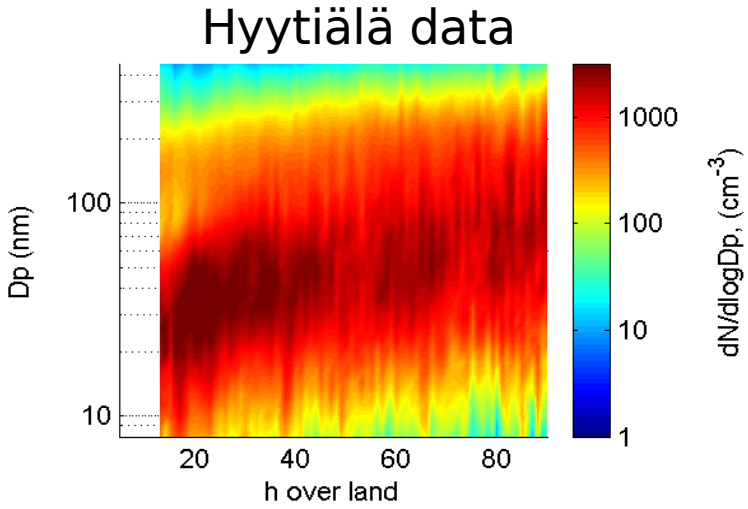




The forest likely a significant source of aerosol number in an environment otherwise devoid of primary sources contributing to the fine particles

The Scandinavian aerosol: The role of biogenic emissions





- The marine-to-continental transition includes a significant change in source profiles
- The condensation growth is shown to be supported by natural emissions of mono-terpenes (or similar substances)
- The boreal forest is capable to establish a typical number concentration of more than 1000 cm^{-3} in a climatic relevant size range (50-100nm)