

Field experiments (Italy, Germany, England) H-TDMA (hygroscopicity)

+ DMPS (particle size distributions)

Results:

- -external mixing
- -its influence on cloud droplet nucleation
- -extrapolate hygroscopic growth to supersaturation

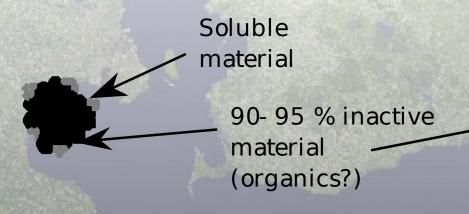


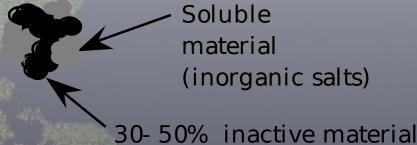
DRY

RH = 90

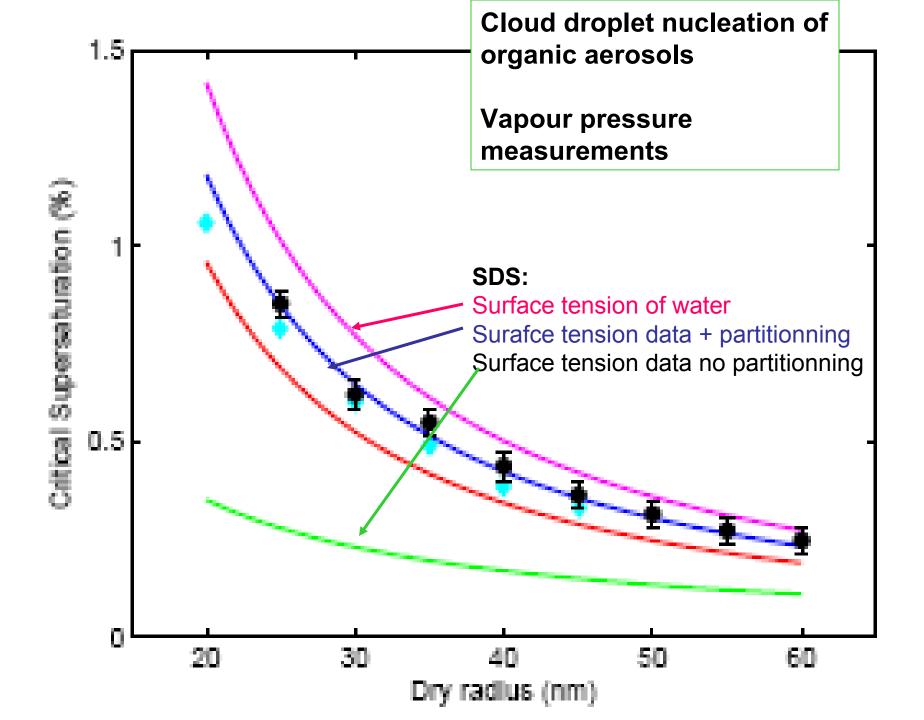
Less-hygroscopic particles

More-hygroscopic particles

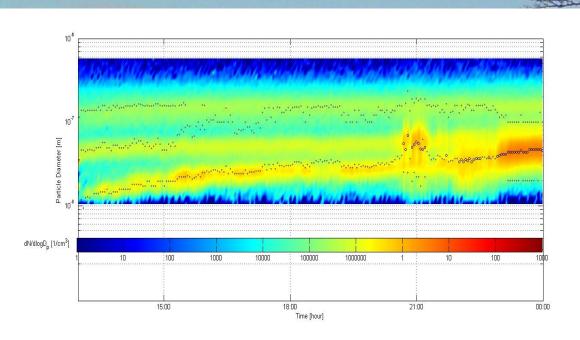


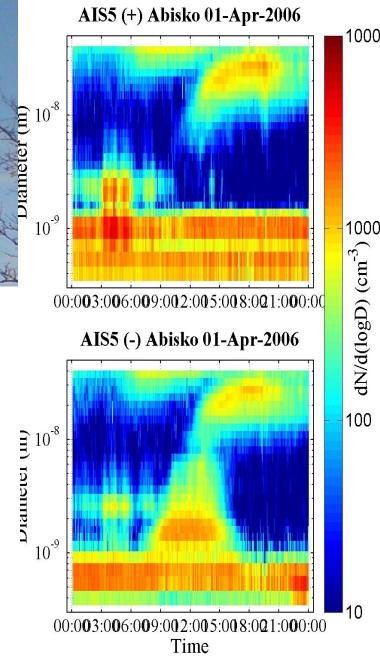






Particle formation studies in northern Sweden (2000 km north of Lund)





Interests for the future

- -Physical properties related to cloud droplet formation
- Surface tension
- Parameterisations on individual particle basis
- Formation and ageing