

## Atmospheric Crystallisation

Ben Murray



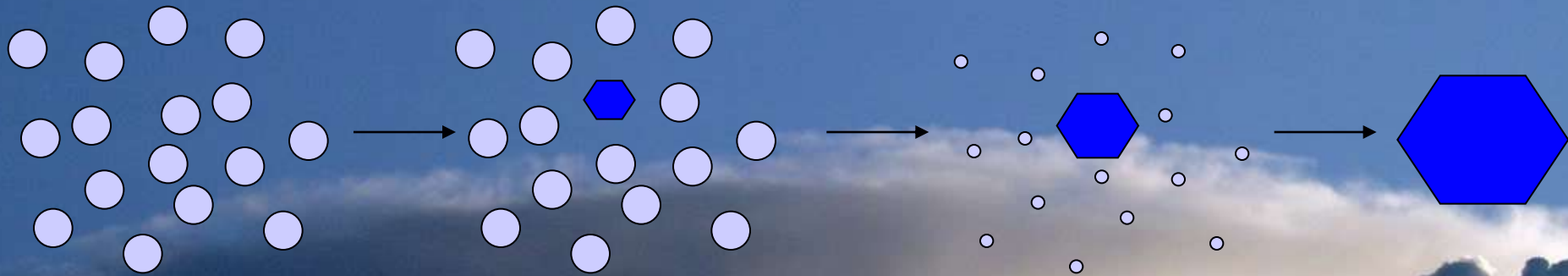
# Atmospheric crystallisation: Clouds throughout the Earth's atmosphere



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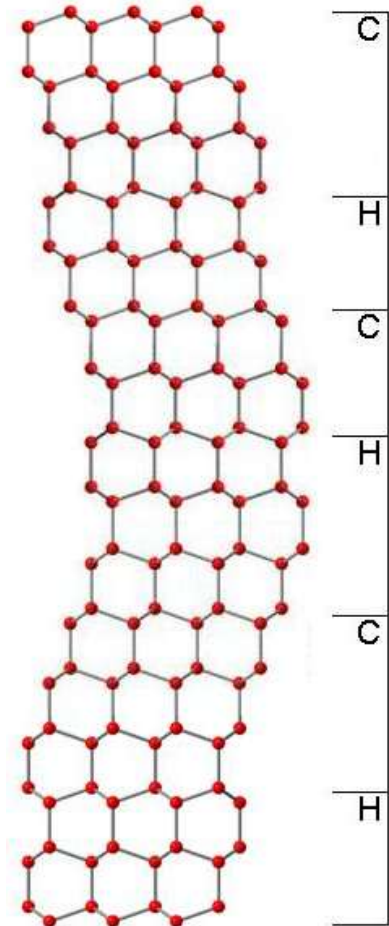
Clouds between 0 and -37°C are mixed phase  
and are very sensitive to ice nucleation



# Lab and field experiments

What we do:

- Quantify efficiency with which atmospheric particles nucleate ice
- Structure of ice
- Crystallisation or glass formation in aerosol

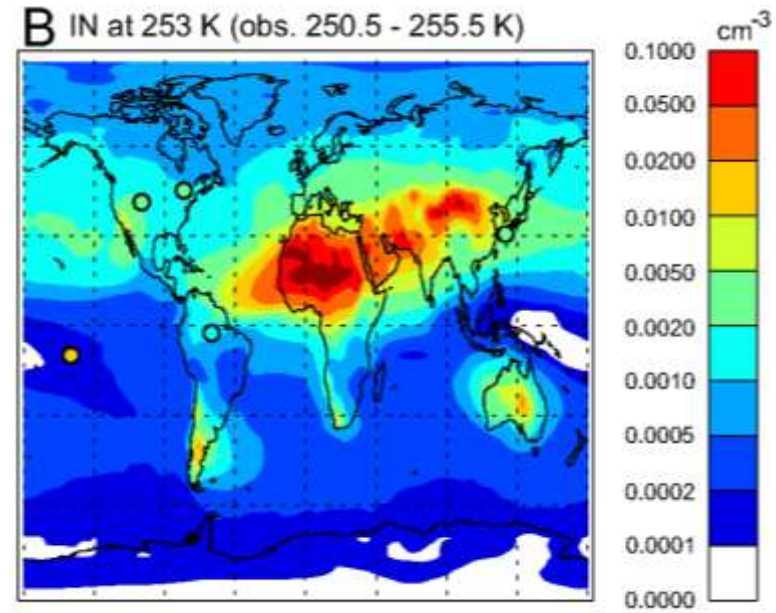
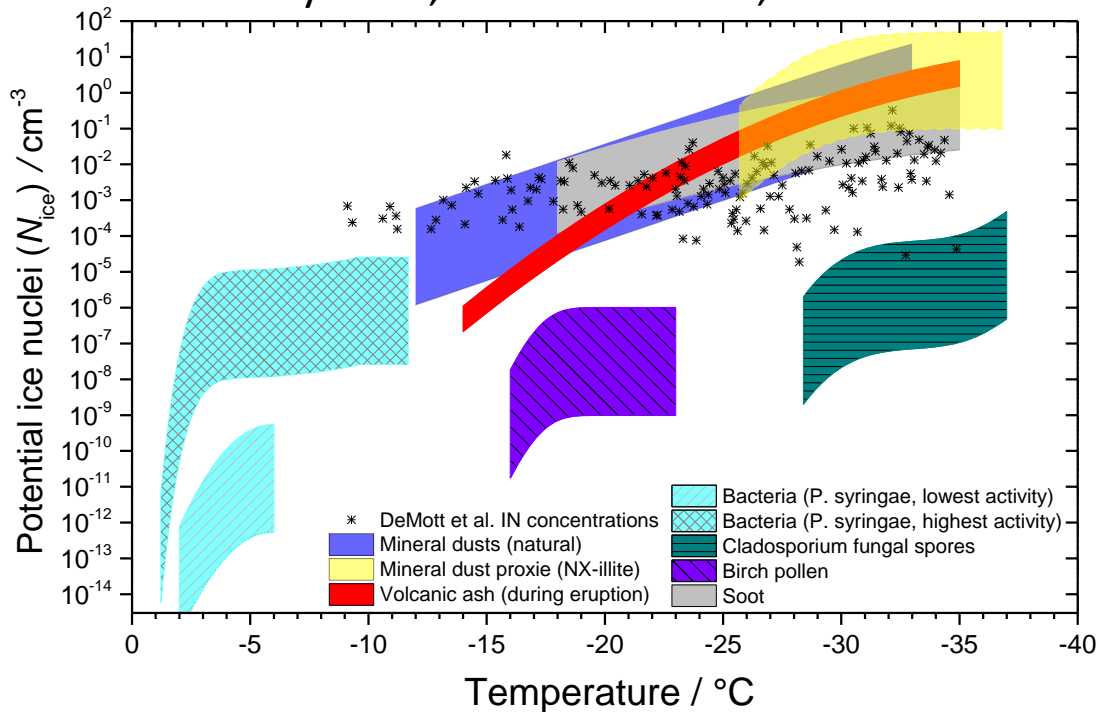


Malkin, PNAS, 2012



# Ice nuclei on a global scale

Murray et al., Chem. Soc. Rev., 2012





<http://www.see.leeds.ac.uk/BJM/>

