Southern Ocean atmospheric Fe supply

1%–4% (model) vs. 82% (measured)

1.2%±2.0% (model) vs. 2.1% in aerosols
3.6% (model) vs. 10.4% in rain water

Ito and Shi, 2016, ACP
Research Gaps

- Unknown iron solubilisation process
- Unknown initial Fe solubility
- No quantitative knowledge on soluble Fe sources

NanoSIMS maps of secondary ions in individual aerosol particles

Li et al., 2016, Sci Adv, under review