

Interactive comment on “Ice nuclei in marine air: bioparticles or dust?” by S. M. Burrows et al.

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In chapter 3.6 the discussion of potential experimental errors and uncertainties in the membrane filter measurements published by Bigg (1973) refers to our measurements published in the paper by Klein et al. (2010), and states that “Early membrane filter methods were subsequently shown to underestimate IN concentrations by a factor of about 10–100 compared to both a continuous flow diffusion chamber (Hussain and Kayani, 1988) and a recently developed method using particle sampling by electrostatic precipitation onto silicon discs (Klein et al., 2010).” However, we have compared our measurements not to the method of Bigg (1973), but to a combination of membrane filter sampling with subsequent analysis in a vacuum diffusion chamber, whereas Bigg did not work under vacuum. Although the authors later point to this fact, we want to make clear again, that from the discrepancies reported by Klein et al. (2010) no conclusions may be drawn related to the data published by Bigg (1973).

C210

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