

Interactive comment on “Optical properties of laboratory grown sea ice doped with light absorbing impurities (black carbon)” by Amelia A. Marks et al.

Amelia A. Marks et al.

amelia.marks.2006@live.rhul.ac.uk

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The authors would like to thank S. Doherty for their comment on the paper “Optical properties of laboratory grown sea ice doped with light absorbing impurities (black carbon).”

A (likely) correction to the Abstract: "Particulate black carbon at mass ratios of 75, 150 and 300 ng/g in a 5 cm ice layer lowers the albedo by 97%, 90%, and 79% compared to clean ice at a wavelength of 500 nm." I believe that the authors mean that it "lowers the albedo to (i.e. not "by") 97%, 90% and 79%" – or some other wording adjustment is needed. Lowering it *by* 97% would make for some

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very black ice indeed!

They are correct in their comment on the wording and this has been changed in the revised manuscript to say "to" instead of "by".

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TCD

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