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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Deposition of brown carbon onto snow: changes of snow optical and radiative properties" *by* Nicholas D. Beres et al.

Anonymous Referee #2

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The paper is aimed at studies of of changes of snow optical and radiative properties due to deposition of BrC onto snow.The authors perform the artificial deposition of BrC aerosol onto snow surfaces and monitor the spectral radiative impact of the deposited BrC. The work is sound and worth to be published in ACP. My comment is given below: The natural snow albedo is not 1.0 in the visible (see Fig.3). Therefore, it is clear that the snow samples were already polluted before introduction of BrC. I think, the better idea would be to use fresh or artificial (not polluted) snow samples.

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