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> Interactive Comment

Interactive comment on "Simulation of black carbon in snow and its climate impact in the Canadian Global Climate Model" by M. Namazi et al.

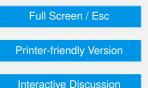
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I would like to draw the attention of the authors to our recent study on BC in snow in the Himalayas (Jacobi, H.-W., et al., Black carbon in snow in the upper Himalayan Khumbu Valley, Nepal: Observations and modeling of the impact on snow albedo, melting, and radiative forcing, The Cryosphere 9, 1685-1699, 2015). The observations presented in this paper may also be useful for the evaluation of the performance of the used global model.

Moreover, the authors mention four different positive BC-snow albedo feedback mech-



Discussion Paper



anisms in the intriduction. I was wondering if the authors were able to analyze, which of these specific feedback mechanisms were most important. I imagine that the importance of the different mechanisms may vary among different regions. For example, in our local simulation for the Khumbu valley we found with a detailed snowpack model an important increase in the snow grain size in the presence of BC compared to the clean snow.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 18839, 2015.

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