

Dear Reviewers, Dear Editor,

please find below some additional comments and integrations to my answers to the reviewers.

In the replies to referees' comments and in the revised manuscript, we have asserted that "The climatic impact associated to the deposition of BrC and dust on snowpack and its uncertainties were not reported in the IPCC 5th Assessment Report (AR5)". This is a truthful statement, however, it is not complete, since dust and brown carbon forcings in snow were actually discussed in "IPCC special report on the ocean and cryosphere in a changing climate" (SROCC) in the Chapter "Polar regions" (Meredith et al., 2019, pag. 247).

Specifically, in SROCC, the combined effect of black carbon and dust deposition on land-based snow is taken from Lawrence et al. (Journal of Climate, 2011), and is known with "medium confidence". The forcing from BrC is deduced from Lin et al. (ACP, 2014) (already cited in our work) and the related confidence is retained "low".

The revised manuscript has been updated including this information. The changes are highlighted in yellow in the text.