Interactive comment on “Black carbon record based on a shallow Himalayan ice core and its climatic implications” by J. Ming et al.

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Response to S. Warren (Referee)

The authors thank Prof. S. Warren for his helpful comments for improving the manuscript. Our response to these comments is addressed below by first briefly repeating his comments.

- The manuscript needs to be proofread. The manuscript was proofread. Some extraneous characters and missing characters have been revised throughout the paper.

- Page 14416, line 5: What is the flow regime? Did the ice at the bottom of the core originate at the col, or upstream? ERIC2002C was drilled in a dry hole in the summer of 2002. Based on a repeating survey with a Sokkia GSS1A Global Positioning System (accuracies of 5 mm over distance up to 10 km) in 1998 and 2002 did not identify
horizontal movement at the drilling site. Actually, another bed rock ice core at the same site (named ERIC2002A in the manuscript) has a depth of more than 100 m. Thus the ice at the bottom of ERIC2002C was reasonably thought as originating at the Col.

- Page 14418, line 22: Cachier et al 1989 is missing from the reference list. It had been added into the reference list.

- Page 14419, line 23: Warren and Clarke 1990 computed a scavenging ratio of 150 for the East Antarctic Plateau. We added the result from Warren and Clarke (1990) into the text.

- Page 14420, line 5: What value of scavenging ratio was assumed for this computation? The number 125 was assumed for this computation.

- Page 14422, line 3: An assessment of radiative forcing can be obtained from Figure 2 of Warren and Wiscombe 1985... We added these results from Warren and Wiscombe (1985) into the discussion.

- Figure 6: To better see the correlation, these data should also be plotted as a scatter-diagram (BC versus number of T2 trajectories). A new scatter-diagram was plotted in the revised figure.

- References problem... These references were added into the reference list.