

Interactive comment on “Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.)” by S. Decesari et al.

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We have found an error in the calculation of the TC concentrations in PM₁ samples. The actual values are 37% lower than reported in the discussion paper and in the revised version of the manuscript. This factor applies systematically to all PM₁ samples, and it does not affect seasonal trends and diurnal patterns. We therefore believe that correcting the TC values does not contradict any statements in the manuscript referring to the PM₁ data set. On the contrary, it reconciles the apparent disagreement in the water-insoluble carbon fraction between PM₁₀ and PM₁ samples: In our previous attempts to explain such discrepancy we attributed it to differences in the

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size-distributions of WSOC and TC. However, after correcting the TC concentrations in PM1, the WSOC/TC and TC/SO4 ratios in PM1 are much more consistent with those characteristic of the PM10 samples. We will therefore drop any statements assessing a clear mismatch between the water-insoluble carbon in PM1 with respect to PM10. Absolute concentrations of TC in PM1 samples will be corrected in Figure 2 and in related tables of the newly revised manuscript.

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