

Interactive comment on “Concentration, temporal variation and sources of black carbon in the Mount Everest region retrieved by real-time observation and simulation” by Xintong Chen et al.

Anonymous Referee #3

Received and published: 26 April 2018

This paper is talking about mass concentrations, temporal variations and source regions along with transported mechanisms of airborne BC observed in Mountain Everest region. The authors have revised this paper followed by the reviewer's comments. I suggest that this paper can be published to ACP and some minor comments are listed as: 1. Line 16, change "...in the non-monsoon season" to "...during the monsoon season". 2. Line 78-79. What is the time resolution for measurements in meteorological parameters? The authors should state. 3. Line 129-133. The authors should cite papers for utilizations of HYSPLIT model. 4. Line 141. Please replace "...at QQMS (Fig. 3c) (Cong et al., 2015a)" by "...at QQMS from August 2009 to July 2010 (Fig. 3c) (Cong et al., 2015a)". 5. Line 161. I think the decreased BC during

C1

the monsoon is due to washout by precipitation. So, please remove humidity in the sentence of "...increasing humidity and..." 6. Fig. 11. It is better to point out the location of QQMS in all panels of this figure for the reader to follow it.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-183>, 2018.

C2