

Cover Letter

Date: Nov 13, 2015

Dear Editors,

We submit our manuscript entitled "Numerical Simulation Analysis on the Sources of Haze over Zhongshan City in southern China using WRF-CMAQ Model" to *Advances in Meteorology* for publication.

After reading the introduction of the journal, we believe that the research on this paper will make it interesting to general readers of this journal. We simulated the haze pollution of Zhongshan, an important part of Pearl River Delta in China, using coupled WRF-CMAQ model. We deal with the emission sources data and divided them into five categories, *i.e.*: power plants, industry, agriculture, transportation and resident. We studied the haze pollution and figured out the contribution ratio of emission sources from different areas to the PM_{2.5} concentration of Zhongshan. We found that the contribution ratio of the emission sources from different areas changed under different weather conditions. Further, we evaluated the emission control measure of Zhongshan and found that if PM_{2.5} concentration is to be reduced by 50% or more, emission control measures were suggested to be taken 2-3 days in advance. Industrial, residential, and transportation sources contributed most to PM_{2.5} concentration of Zhongshan, sequentially. The results of this paper could be valuable reference for the haze controlling. In a word, we thought our paper, mostly focused on the atmospheric environment and air pollution, but was also associated with emission sources layout and classification as well as government decisions, fits the aim of the journal well.

All authors have seen the manuscript and approved to submit to your journal.

Thank you very much for your attention and consideration. And below is some information of the Corresponding Author.

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Sincerely yours,

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