Interactive comment on “Effects of atmospheric transport and trade on air pollution mortality in China” by Hongyan Zhao et al.

Anonymous Referee #1

Received and published: 5 April 2017

This manuscript investigates the effect of atmospheric transport and trade on air pollution mortality in China. The topic is interesting and important. The approach is new and robust. The paper presents a good interdisciplinary study and is written. A few minor correction may need to be made.

1. Abstract: “33% of China’s air pollution deaths...”, it is suggested to provide the number of premature deaths besides the percentage.

2. $\delta I_R u_0$ is the counterfactual concentration in equation (1). The authors should declare the value of $\delta I_R u_0$ adopted in this study.

3. China also imports intermediate and finished goods from other regions. The authors should describe the calculation of international imports in methods.

5. The authors should thoroughly check the manuscripts to avoid grammar mistakes. For example, Page 6 Line 25, “which account for about 35%...” should be “which accounted for about 35%...”, all “PM2.5” should be changed to “PM2.5”.

6. Fig.2, white color means no data, why lots of grids in northwest and northeast are white? This paper is suggested for minor revisions.