

## ***Interactive comment on “Cold fronts – a potential air quality threat over the Yangtze River Delta, China” by Hanqing Kang et al.***

### **Anonymous Referee #1**

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This manuscript presents a very interesting story combining synoptic weather and transport of air pollutants. Both process analysis and source apportionment techniques can confirm the results, which are scientifically solid. I only have minor concerns on the presentation of results. Specific comments are listed below:

1. Page 2, line 7: references should be added here.
2. Page 2, line 32: "Liu (2003)..." this sentence is very confusing. Please make it more clear.
3. Page 8, line 20: EPT should be defined.
4. Page 9, line 2: please indicate how is cold front (red line) is diagnosed and plotted?

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5. Fig 6: the color scale is too large. I would suggest using 0-500

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-588>, 2018.

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