

***Interactive comment on “Spatial structure and  
dispersion of the 16/17 April 2010 volcanic ash  
cloud over Germany” by S. Emeis et al.***

**Anonymous Referee #1**

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The study presents a comparison and discussion of measurements and model predictions of the ash plume from the Eyjafjallajökull eruption in April 2010. The manuscript is mainly based on measurements from in situ remote sensing instruments, but also airplanes and conventional air pollution measurements are applied. It is a very useful and complete comparison with very interesting discussions on the structure of the ash plume in relation to the instruments strength and weaknesses. Also the discussion of the modeling efforts is well presented.

I have two minor comments on this interesting manuscript:

1. Because the measuring sites are mentioned by their name in the manuscript, it

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would be useful with a map that shows the location of the measuring sites. 2. Also measurements from Austria are used in the analysis, please consider to add Austria in the title.

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Interactive comment on Atmos. Chem. Phys. Discuss., 10, 26117, 2010.