



Figure 1: Location of FAAM aircraft profiles in relation to Eyjafjallajökull volcano vent.

## Reply to reviewer 2

### Aircraft observations and model simulations of concentration and particle size distribution in the Eyjafjallajökull volcanic ash cloud

H. F. Dacre  
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I would like to thank the reviewer for his/her review of the paper.

#### Minor Points

1. **22593, line 9. I don't see that this is 'very good'. Please reformulate:** This sentence has been removed in response to reviewer 1's comment 6.
2. **22593, line 26. When you refer to Fig 7 this early in the manuscript, the legend is not clear:** We have added a new figure (figure 1) to the revised paper specifically to show the locations of the aircraft profiles.
3. **22594, line20. Provide a reference to the observations on the particle size from EARLINET, AERONET, Cabauw ....:** A reference to the observations (Ansmann et al. 2011) is already included in this line so we have not changed the text.
4. **22604, line 16. Write out 'time in square root':** This has been expanded in the revised paper.