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Comment

***Interactive comment on “Concentrations of higher dicarboxylic acids C<sub>5</sub>-C<sub>13</sub> in fresh snow samples collected at the High Alpine Research Station Jungfrauoch during CLACE 5 and 6” by R. Winterhalter et al.***

**Anonymous Referee #1**

Received and published: 25 December 2008

1. Page 18692, line 9. Change “the quantification higher organic”; to “for the higher quantification of higher organic”.
2. Page 18695, line 4. Change “After the separation of the organic from”; to “After the separation of the organics from”.
3. Page 18702, Section 3.2 Sources of dicarboxylic acids. In this section, the authors failed to cite one important paper, which already proposed the sources and formation

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mechanisms of azelaic acid (C9) and other long-chain diacids such as C11 in the atmosphere (Kawamura and Gagosian, Nature 325, 330-332). This reference should be cited in the revised version. The idea of Figure 4 seems to largely depend on this Nature paper.

4. Page 18703, last line. Ho et al. (2006) did not analyze Los Angeles aerosols, but referenced the date from the original paper. Authors should refer the original paper instead of Ho et al. (2006). Authors' attitude is not suitable.

5. Some samples showed very high concentrations of adipic acid (C6), which is used for some plastics. I am afraid of potential contamination of adipic acid from the polypropylene-shovel that is described in the section 2.2. It is common not to use plastic materials for the collection of samples in particular for organic analysis. This potential contamination should be discussed in the manuscript.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 18689, 2008.

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