

## ***Interactive comment on “Seasonal variations of the Water Soluble Organic Carbon massfraction of aerosol in two valleys of the French Alps” by J.-L. Jaffrezo et al.***

### **Anonymous Referee #1**

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The paper presents interesting data and is generally well structured and written. Nevertheless some points should be considered, as more information could be given.

In the Introduction the authors mention the ‘great opportunity of the closing and reopening of the TMB - however in the end these changes (and also the differences between the two sampling sites) are not really discussed.

The experimental method for the determination of WSOC is not explained in detail. Can any losses of organic acids be expected due to the treatment of the samples with phosphoric acid?

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Not all of the filters have been analysed for WSOC - how was this selection made?

The annual cycles of WSOC should be shown (in addition to the figures showing the temperature dependence and the seasonality of the WSOC fractions).

Table 3 refers to data from the Jungfraujoch - nevertheless the authors state, that they present the first data set including temperatures below freezing. Is this correct?

Page 4012, line 14: As this finding will not be discussed here - will it be discussed elsewhere?

Page 4013, end: How are the warm/cold conditions defined?

Why do figures 9 and 10 show WSOC versus DCA, but the equations in the text relate DCA to WSOC?

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Interactive comment on Atmos. Chem. Phys. Discuss., 5, 3999, 2005.

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