

Interactive comment on “Geochemical perspectives from a new Aerosol chemical mass closure” by B. Guinot et al.

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Final response

As a synthesis of our responses to the two reviewers we improved our manuscript as followed : 1) The internal consistency of our procedure has been checked by comparison with data published for Beijing aerosols in two different papers giving both multi-elemental data and ions/carbon data. There is a very good agreement between the different approaches. Moreover, one of the works gives access to both the fine and coarse dust fractions and calculations show that dust has the same composition which was one of our hypotheses. (p15) 2) Errors have been re-evaluated considering sampling errors in addition to analytical Errors (§4.3 p18) 3) We answered the important point on water artefact for the mass closure (§2.2 p6) 4) An important point was also the retrieval of Calcium by solubilisation. We detailed the analytical procedure

and references. (§2.5 p10) 5) TEOM negative artefact in Florence has been better explained considering inputs from biomass burning (p11-12) 6) We clarified the paragraph on impactor data, in order to enlighten additional value of the exercise (§5.3 p23) We apologize for the bad quality of figures which all have been retreated for clarity and consistency in the manuscript. Specific questions were answered. Finally references have been carefully checked and corrected.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 12021, 2006.

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Interactive Discussion

Discussion Paper