

Interactive comment on “Size distribution and ionic composition of marine summer aerosol at the continental Antarctic site Kohnen” by Rolf Weller et al.

Anonymous Referee #1

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General comments

The paper presents the result on the complex link between size distribution, ionic composition and new particle formation episodes at Kohnen station (Antarctica). Backward trajectories analysis was accomplished in order to understand air mass source areas and traveling routes. The paper is very important in understanding the present day transport and deposition processes and factors influencing new particle formation. Besides, such studies are fundamental to interpret past climatic and environmental change from ice core stratigraphies especially in this site where one of the two deep ice cores within the EPICA project in Dronning Maud Land is obtained. The paper is in my

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opinion well organized, the results on the considered events are well constrained, and it deserve the publication on ACP. Only some technical English corrections are needed.

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