

Interactive comment on “Nutrients Dissolution Kinetics of Aerosols at Qianliyan Island, the Yellow Sea by a High Time-resolution Nutrient Dissolution Experiment, Potential Linkages with Inorganic Compositions and P solubility controlled factors” by Ke Zhang et al.

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After reading this manuscript, I find that there are serious issues in this study. Qianliyan Island was only one very small sampling site. In more marked deficiencies, only 6 aerosol samples were collected during a short period at this small island. Research area is most important for atmospheric science, but I have no idea from this manuscript. Atmospheric Chemistry and Physics (ACP) should publish a large scale study with a

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wide range of sampling fields (e.g., covering the whole Yellow Sea and its coastal areas) and enough samples (e.g., at least 12 months samples which covered a whole year). Therefore, this limited research is not suitable to be published in ACP.

These 6 aerosol samples capturing seasonal dominant aerosol sources were selected to carry out the high time-resolution dissolution experiments. It was not clear why only six samples were selected. The 6 aerosol samples are indeed too few to study temporal variation. Moreover, the significance of this research site was not described in detail. Sampling information (including sampling location, date, time etc.) of six samples are vital to data analyze and discussion; unfortunately, they were not described.

All data necessary to understand, evaluate, replicate, and build upon the reported research must be made available and accessible whenever possible. Critically, I do not see any reference to the air pressure, temperature, wind direction, wind speed, relative humidity, TSP, nutrients concentrations data, not even in the table.

Lines 615-623: Three references cites as Chen et al. 2006 were shown. If two or more references from the same year contain the same first six or more authors, use a, b, c, and so on for the in-text citation and in the references list. Please check ACP reference format.

It is noted that this manuscript needs careful editing by someone with expertise in technical English editing paying particular attention to English grammar, spelling, and sentence structure so that the goals and results of the study are clear to the reader.

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