

Kosa fraction and anthropogenic heavy metals derived from lacustrine sediments

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Kosa is aerosol dust that has been observed in early spring in Japan. Kosa is derived from the inland arid area in central Asia. Recently, it is suggested that Kosa affects the climate and environment of the Pan-Japan Sea. In order to estimate the past variations in Kosa contribution to the Japan Sea from sediments, we need to get the proxy of Kosa.

We tried to find out the proxy from lacustrine sediments by bulk analyses and minute particle analyses. As a result, minute particle analysis using LA-ICP-MS shows a new possibility to find out the different characteristics between Kosa particles and detrital particles.