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## **Size-resolved morphological properties of the high Arctic summer aerosol during ASCOS-2008**

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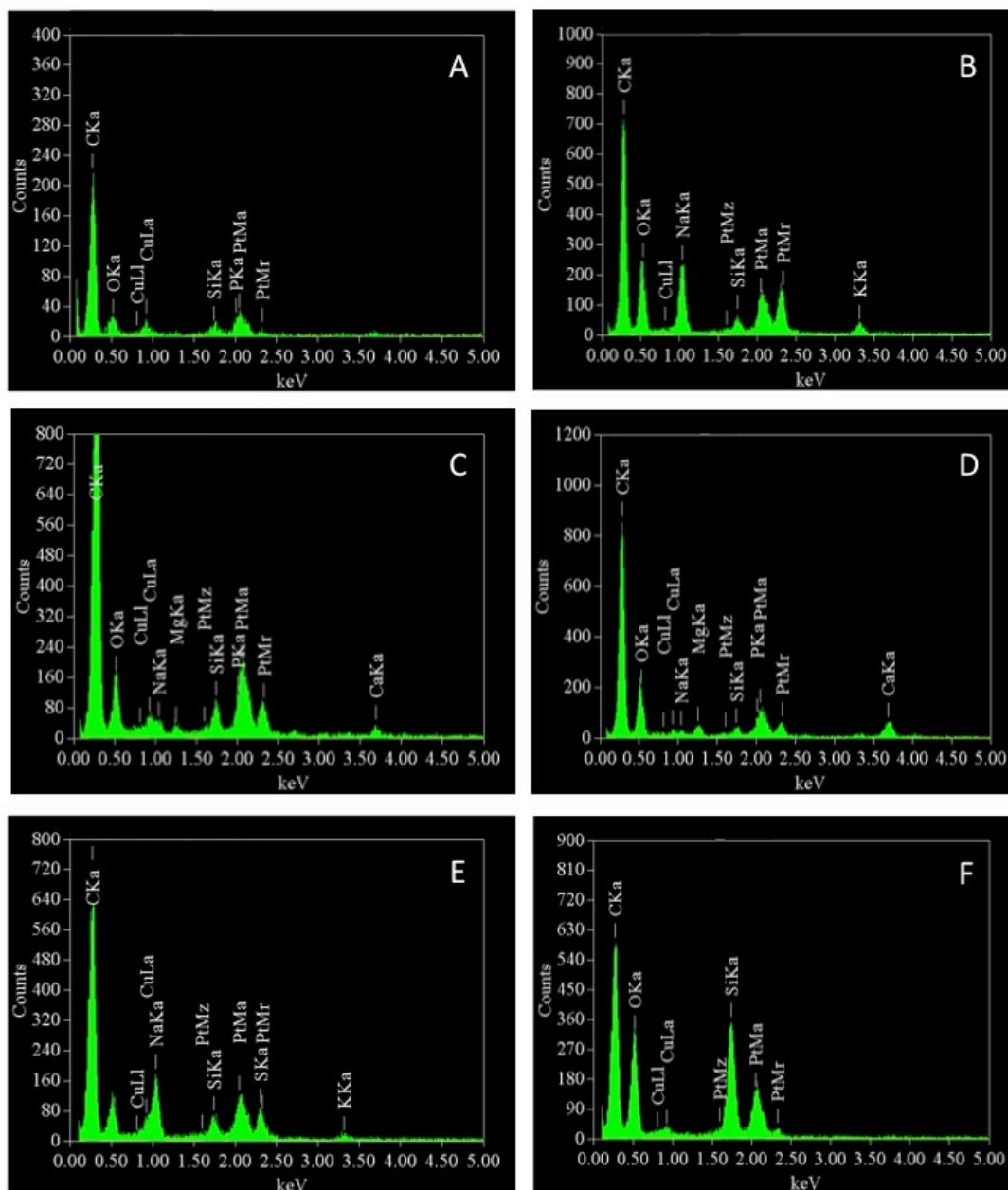


Figure S1: Examples of EDX spectra of aerosol particle investigated in this study: (A) single particle containing neither  $\text{Na}^+/\text{K}^+$  nor  $\text{Ca}^{2+}/\text{Mg}^{2+}$ ; (B) "aggregate" particle containing  $\text{Na}^+/\text{K}^+$ ; (C) "aggregate with film" particle containing  $\text{Na}^+$  and minor contents of  $\text{Ca}^{2+}/\text{Mg}^{2+}$ ; (D) "mucus-like" particle containing  $\text{Ca}^{2+}/\text{Mg}^{2+}$  and minor contents of  $\text{Na}^+$ ; (E) halo particle containing  $\text{Na}^+/\text{K}^+$  and S probably in the satellite particles; (F) blank spectrum taken from a Pt-shadowed TEM grid.