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Supplement of

Sub-micrometer refractory carbonaceous particles in the polar stratosphere

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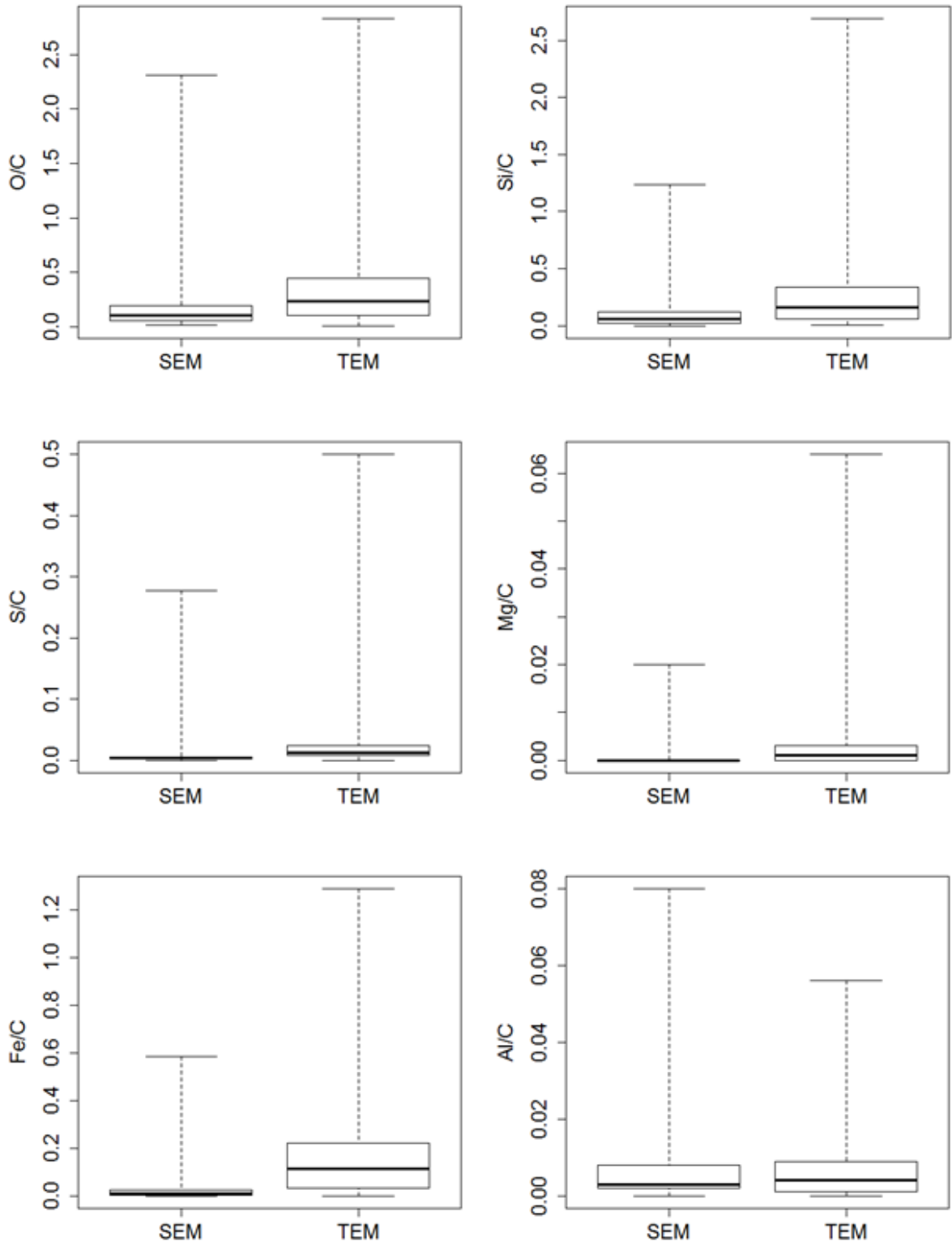


Figure S1: Boxplots of element ratios (intensity ratio) determined by EDX in SEM and TEM. Lower and upper quartiles appear as a box, minimum and maximum values as whiskers.

Table S2: Comparison of element ratios (median).

Element ratio	SEM	TEM
O/C	0.117	0.236
Si/C	0.065	0.161
S/C	0.004	0.013
Mg/C	-	$6.43 \cdot 10^{-4}$
Fe/C	0.012	0.114
Al/C	0.004	0.004