

Supporting Information for:

Transboundary and local air pollutants in western Japan distinguished on the basis of ratios of metallic elements in size-segregated aerosols

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The Supporting Information contains 2 Table and 4 Figures.

Supplementary Figures and Table are submitted as ppt files.

Tables

Table S1. Enrichment factors of 16 metallic elements by particle size in each season at Kumamoto.

Table S2. Enrichment factors of 16 metallic elements by particle size in each season at Cape Hedo.

Figures

Fig. S1. Backward trajectory of air masses arriving at Kumamoto during sampling periods in spring (a), summer (b), autumn (c), and winter (d). Four trajectories per day at 6-h intervals were calculated for each observation period.

Fig. S2. Average Pb/Cu ratio (a) and V/As ratio (b) in each season at Kumamoto and Cape Hedo. Concentrations of Pb, V, and As were measured in the 0.5–1 μm size fraction, and Cu concentration was measured in the 2.5–10 μm size fraction.

Fig. S3. Results of backward trajectory starting from Kumamoto on 16 October 2014 (a) and on 31 October 2015 (b) and from Cape Hedo on 17 October 2014 (c) and 31 October 2015 (d). The initial altitude and calculation time were set to 500 m and 72 h, respectively.

Fig. S4. Correlation between the mass proportions of 16 elements in (a) coarse particles and (b) fine particles to the total mass of these elements at Kumamoto and Cape Hedo.