

Chemical Composition and Health Risk of PM_{2.5} from Near-ground Firecracker Burning in Micro Region of Eastern Taiwan

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Supporting Information

Table Captions

Table S1. Values of K/K^+ , Mg/Mg^{2+} , and Cl^-/Na^+ during EDs and NDs at site A.

Table S2. Source apportionment of $PM_{2.5}$ during NDs and EDs.

Table S1. Values of K/K^+ , Mg/Mg^{2+} , and Cl/Na^+ during EDs and NDs at site A.

	Non-event		Event	
	A1	A4	A2	A3
K/K^+	1.64	1.25	1.04	1.14
Mg/Mg^{2+}	1.39	1.59	3.41	1.52
Cl/Na^+	1.12	0.79	1.57	1.66

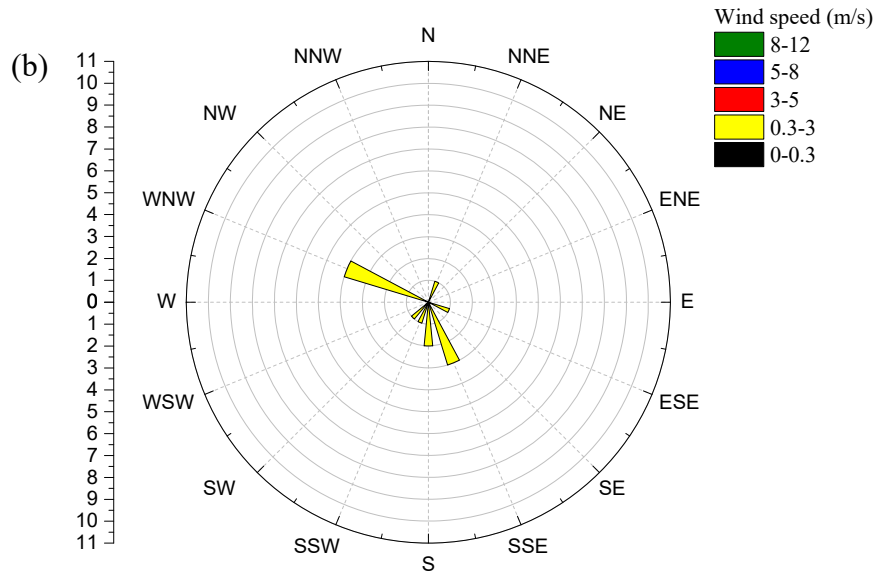
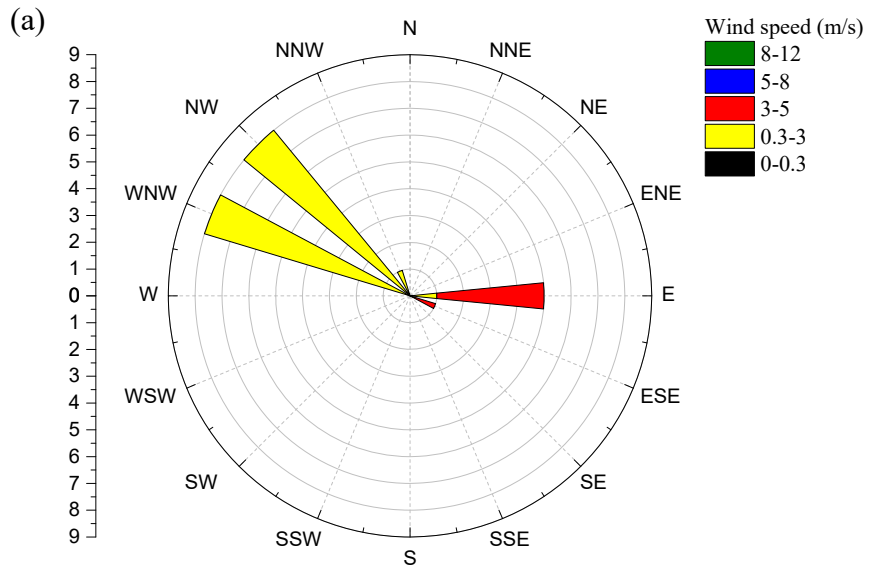
Table S2. Source apportionment of PM_{2.5} during NDs and EDs.

Source profiles		Firecracker burning	Traffic exhaust	Coal- fired Boilers	Road dust	Cooking fume
Event	Contribution (%)	53.6	14.6	6.7	9.0	16.0
	Concentration (µg/m ³)	20.1	5.5	2.5	3.4	6.0
Non-event	Contribution (%)	-	28.3	27.4	23.0	21.2
	Concentration (µg/m ³)	-	3.2	3.1	2.6	2.4

Figure Captions

Fig. S1. Wind direction and speed during the sampling days, (a) Feb. 21st; (b) Feb. 22nd; (c) Feb. 23rd; (d) Feb. 24th.

Fig. S2. The backward trajectories of outside air masses transported toward the Taitung (a) Feb. 21st, (b) Feb. 22nd, (c) Feb. 23rd, (d) Feb. 24th



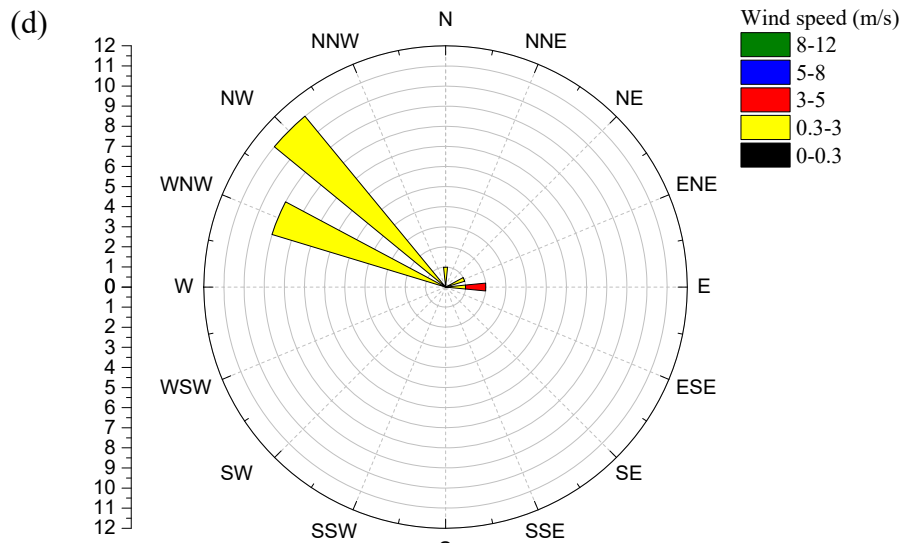
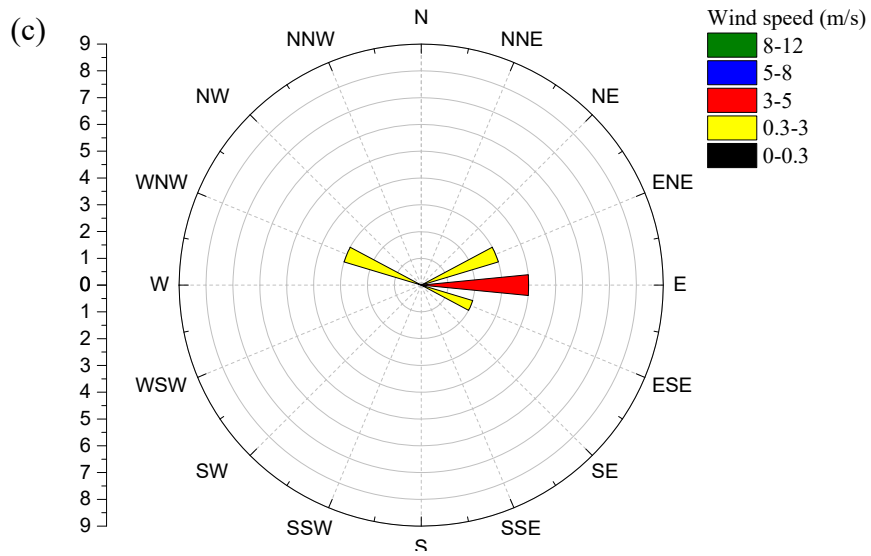


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(e) NOAA HYSPLIT MODEL
 Backward trajectories ending at 0000 UTC 25 Feb 16
 GDAS Meteorological Data

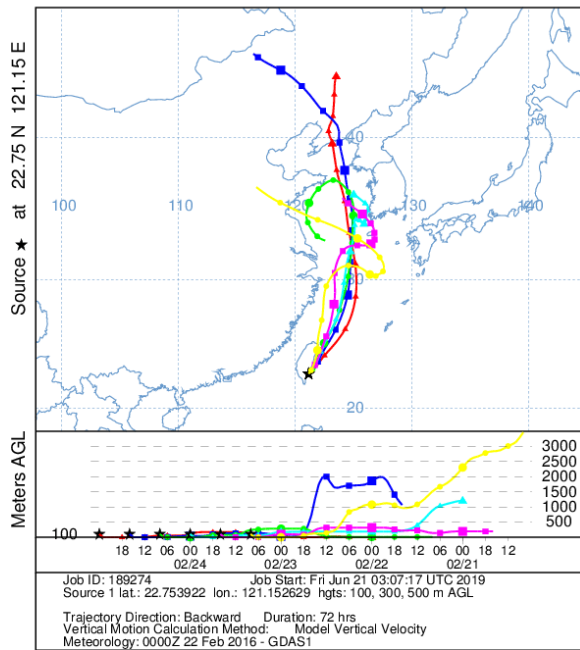


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