atmosphere

MDPI

Characteristics of PM2.5 Pollution in Osorno, Chile: Ion Chromatography and Meteorological Data Analyses

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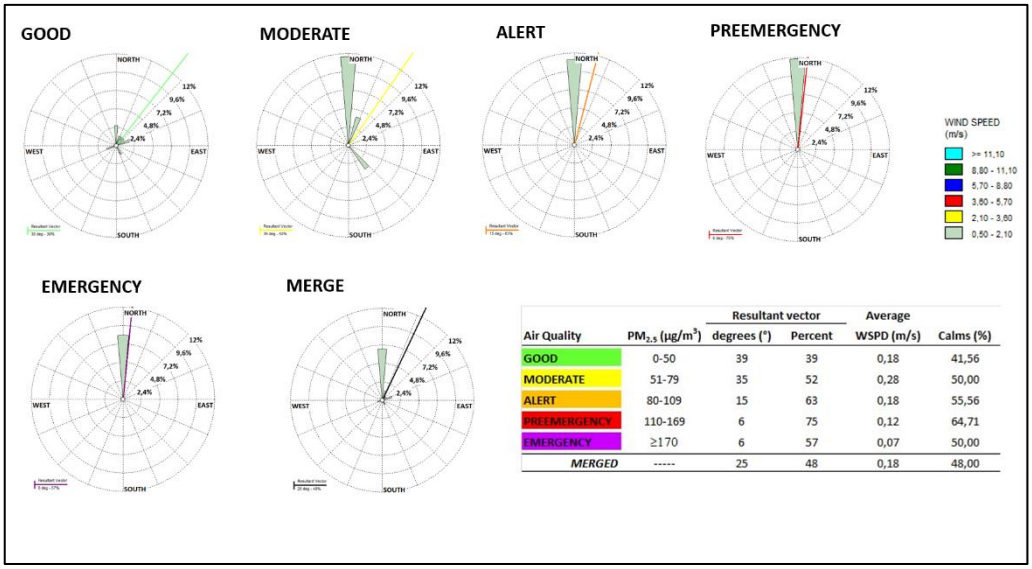
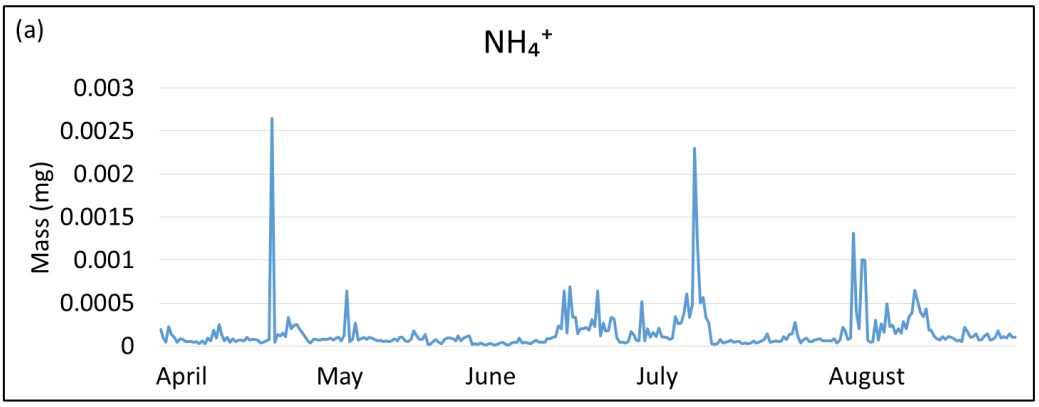
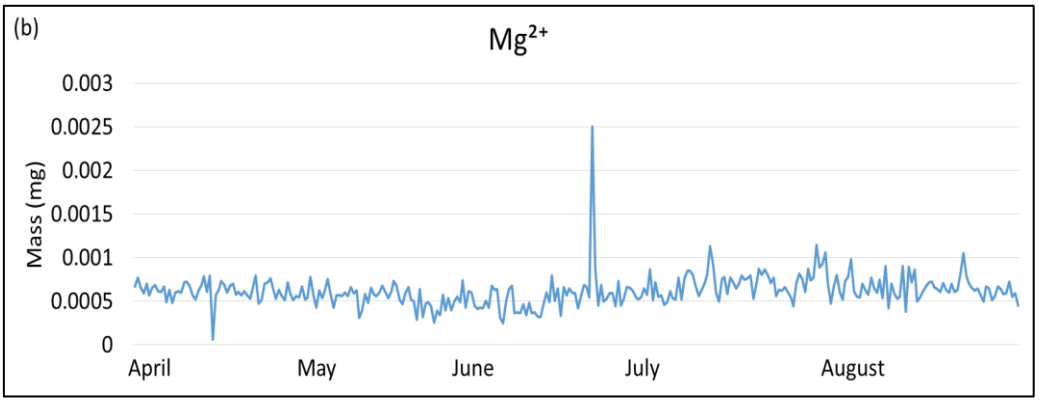


Air Quality	$PM_{2.5}$ (μg/m³)	Resultant vector degrees (°)	Resultant vector Percent	Average WSPD (m/s)	Calms (%)
GOOD	0-50	39	39	0,18	41,56
MODERATE	51-79	35	52	0,28	50,00
ALERT	80-109	15	63	0,18	55,56
PREEMERGENCY	110-169	6	75	0,12	64,71
EMERGENCY	≥170	6	57	0,07	50,00
MERGED	-----	25	48	0,18	48,00

Figure S1. Wind rose separated by AQI.





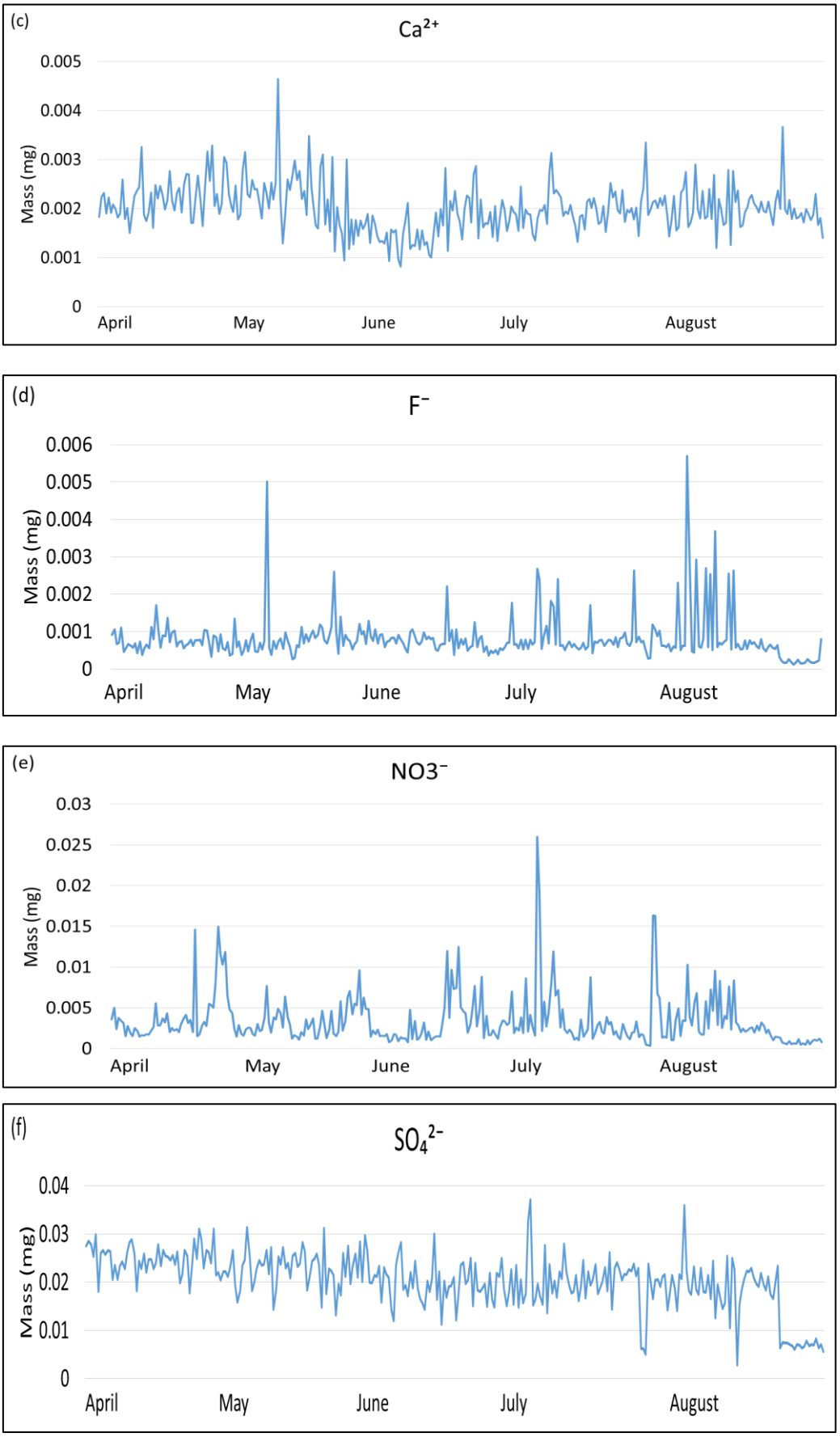


Figure S2. (a) NH_4^+ monthly variation, (b) Mg^{2+} monthly variation, (c) Ca^{2+} monthly variation, (d) F- monthly variation, (e) NO_3^- monthly variation, (f) SO_4^{2-} monthly variation

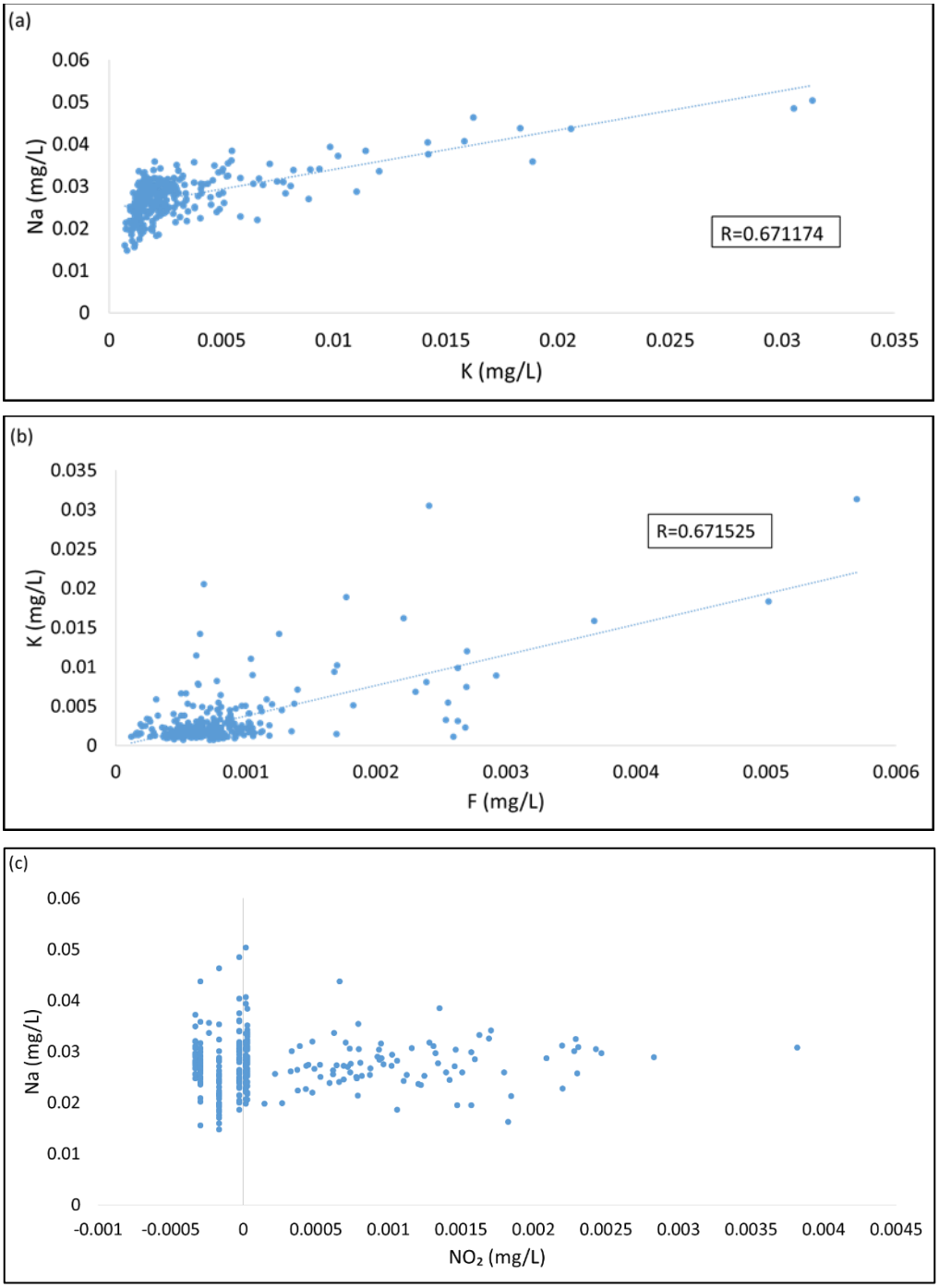


Figure S3. Relationship between two detected ions. (a) Na^+ and K^+, (b) K^+ and F^-, (c) Na^+ and NO_2