



Supplementary Information

Elemental Composition of Particulate Matter in the Southeastern Brazilian Ceramic Pole by Synchrotron Radiation X-Ray Fluorescence Technique (SR-XRF)

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Table S1. Daily mean temperatures (T), amount of daily precipitation (prec) and daily mean of wind directions (wind) for sampling dates in rainy and dry season

Rainy season 2014/2015				Dry season 2015			
Date	T / °C	Prec / mm	Wind	Date	T / °C	Prec / mm	Wind
15-Dec-14	22.4	0.0	206.5	2-Aug-15	18.1	0.0	91.63
16-Dec-14	22.6	0.0	224.5	4-Aug-15	18.8	0.0	108.80
17-Dec-14	24.4	0.0	195.5	6-Aug-15	19.8	0.0	79.13
18-Dec-14	25.8	0.0	138.7	8-Aug-15	20.1	0.0	110.47
19-Dec-14	25.1	0.2	112.1	10-Aug-15	20.3	0.0	89.40
26-Dec-14	26.9	0.0	153.8	12-Aug-15	18.7	0.0	83.72
1-Jan-15	25.2	4.6	148.7	14-Aug-15	18.0	0.0	92.76
2-Jan-15	25.4	7.0	174.5	16-Aug-15	20.2	0.0	110.55
7-Jan-15	25.8	0.0	123.9	18-Aug-15	20.6	0.0	74.09
5-Feb-15	21.0	13.2	147.4	20-Aug-15	18.7	0.0	199.81
7-Feb-15	22.1	0.4	192.0	22-Aug-15	19.1	0.0	195.87
8-Feb-15	23.8	0.0	117.8	24-Aug-15	19.8	5.6	187.31
11-Feb-15	24.2	14.4	166.3	26-Aug-15	19.4	0.4	172.97
12-Feb-15	25.6	0.0	128.0	29-Aug-15	18.3	0.2	172.38
13-Feb-15	24.5	0.0	172.9	31-Aug-15	22.5	0.0	126.92
23-Feb-15	25.9	0.0	140.7	2-Sep-15	20.6	0.0	227.68
24-Feb-15	25.4	0.0	111.7	4-Sep-15	20.2	0.0	172.71
25-Feb-15	24.1	55.0	120.4	6-Sep-15	19.3	0.0	201.06
27-Feb-15	23.5	1.2	169.5	9-Sep-15	18.9	7.8	141.67
3-Mar-15	24.4	0.0	169.6	11-Sep-15	20.0	16.2	156.27
7-Mar-15	22.4	4.4	161.9				
9-Mar-15	21.6	10.2	126.1				
13-Mar-15	23.0	0.0	102.0				

Table S2. Pearson correlation matrix for elements determined in PM₁₀ in rainy season. Values with significant correlation in bold

	Si	Ca	K	Ti	Mn	Fe	Zn
Si	1	0.733	0.3701	0.1344	0.4	0.1411	0.087
Ca		1	0.855	0.611	0.825	0.665	0.564
K			1	0.579	0.792	0.643	0.169
Ti				1	0.765	0.983	0.570
Mn					1	0.801	0.526
Fe						1	0.645
Zn							1

Table S3. Pearson correlation matrix for elements determined in PM₁₀ in dry season. Values with significant correlation in bold

	Si	Ca	K	Ti	Mn	Fe	Zn
Si	1	0.709	0.649	0.637	0.802	0.680	0.274
Ca		1	0.830	0.757	0.881	0.778	0.374
K			1	0.555	0.783	0.569	0.557
Ti				1	0.884	0.975	0.714
Mn					1	0.897	0.614
Fe						1	0.649
Zn							1

Table S4. Pearson correlation matrix for elements determined in PM_{2.5} in rainy season. Values with significant correlation in bold

	S	Ca	K	Ti	Mn	Fe
S	1	0.029	0.417	0.503	0.484	0.239
Ca		1	0.771	0.507	0.581	0.661
K			1	0.751	0.684	0.784
Ti				1	0.549	0.831
Mn					1	0.250
Fe						1

Table S5. Pearson correlation matrix for elements determined in PM_{2.5} in dry season. Values with significant correlation in bold

	Ca	K	Ti	Mn	Fe
Ca	1	0.781	0.768	0.895	0.818
K		1	0.541	0.930	0.739
Ti			1	0.542	0.822
Mn				1	0.923
Fe					1

