Supplement of Atmos. Chem. Phys., 14, 9977–9991, 2014
http://www.atmos-chem-phys.net/14/9977/2014/
doi:10.5194/acp-14-9977-2014-supplement


Atmospheric Chemistry and Physics
Open Access

*Supplement of*

# Source apportionment and seasonal variation of $PM_{2.5}$ in a Sub-Saharan African city: Nairobi, Kenya

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Supplementary material for the manuscript “Source apportionment and seasonal variation of PM2.5 in a Sub-Sahara African city: Nairobi, Kenya”

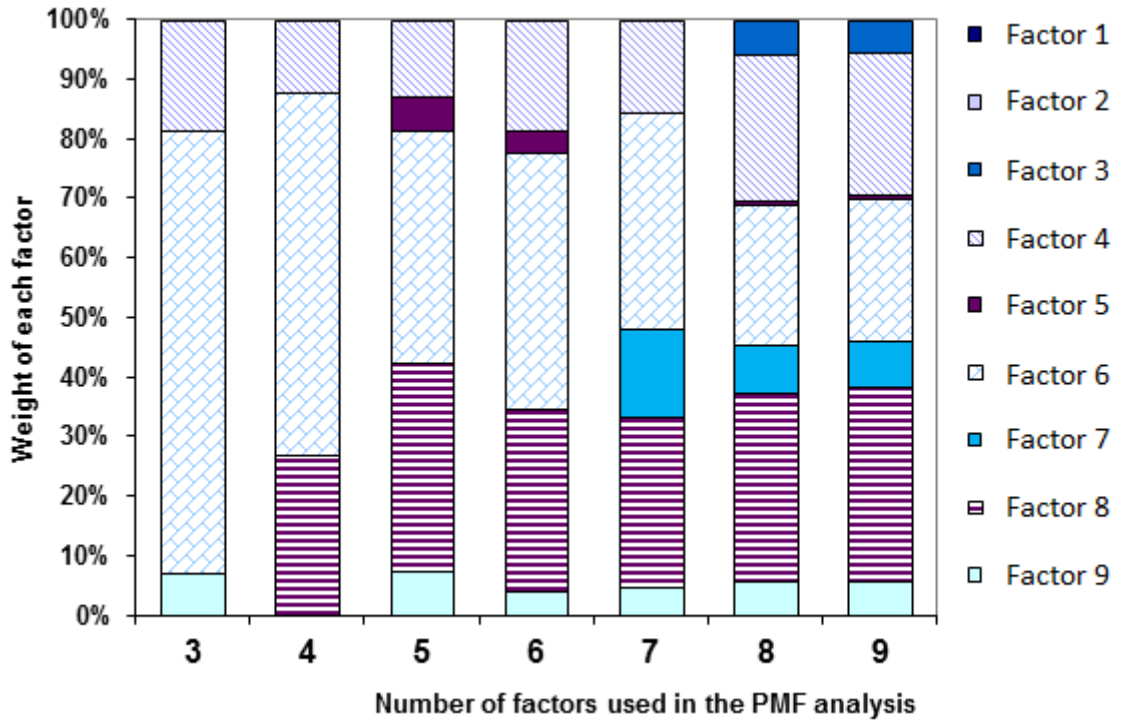


Fig. S 1. Number of source factors from PMF analysis of the $PM_{2.5}$, BC and elements concentrations in Nairobi, Kenya. The number of factors was varied between 3 and 9 as shown in the figure. The factors have been named based on the prominent element in each factor. Five factors were seen to be a plausible representation of probable PM sources based on rational distribution of their weights.

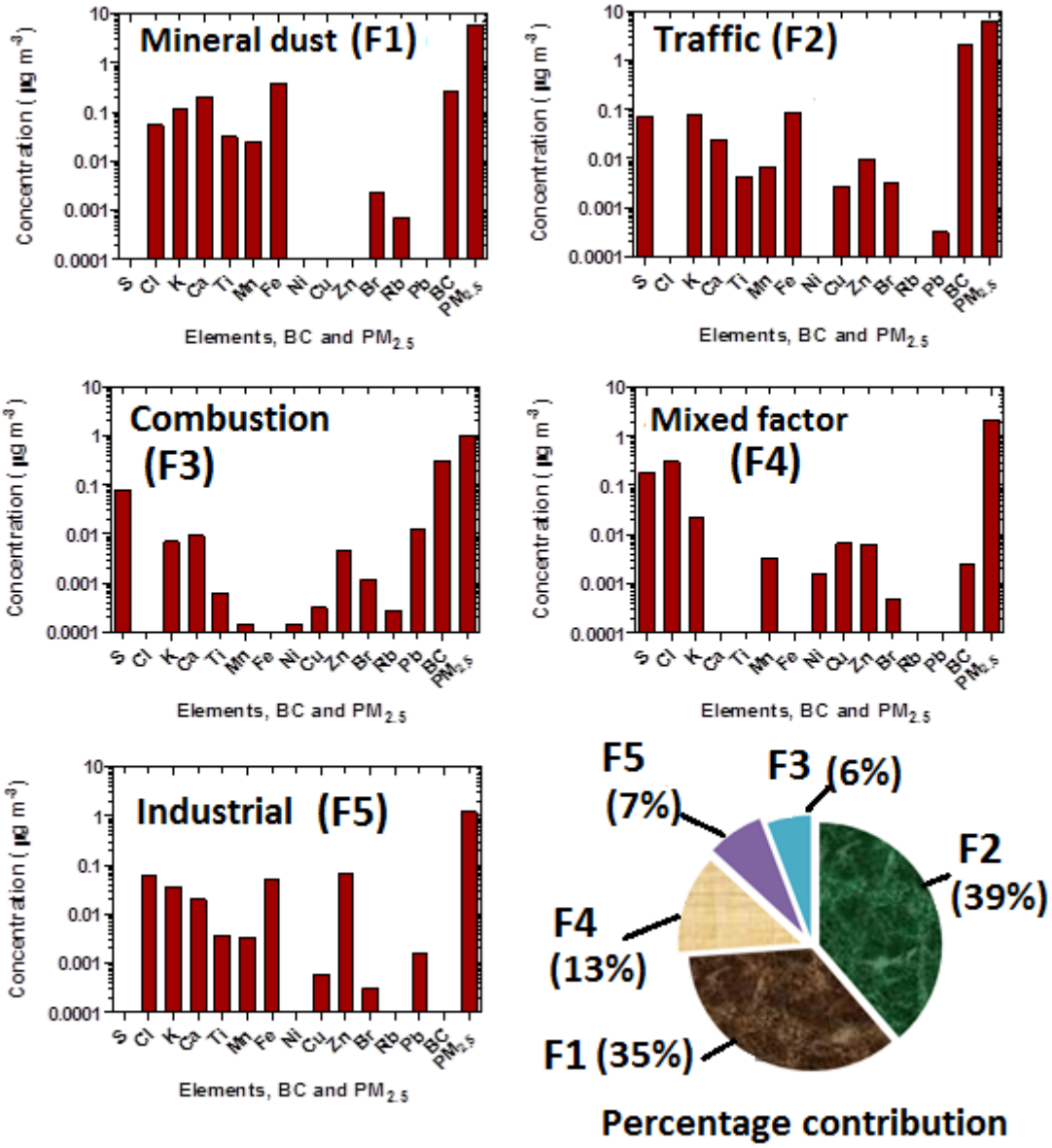


Fig. S 2. Source factor generated from the entire data set using PMF analysis showing profiles of $PM_{2.5}$ BC and elements. Also included at the bottom right hand section, is the percentage contribution of each factor to the PM.

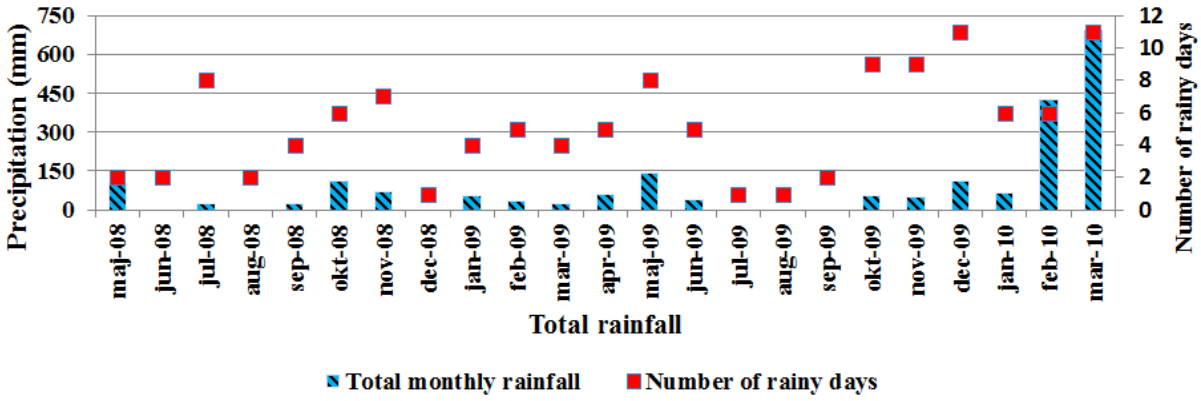


Fig. S 3. Amount of rainfall and number of rainy days per month for the duration of this study. The meteorology data captures the drought period in 2009 as indicated by low amount of rainfall during that year. Meteorology data for this study were collected from Jomo Kenyatta International Airport (JKIA) that is approximately 13 km to the south-east of the university site (data was purchased from AccuWeather Enterprise Solutions, New York, USA).