



Supplement of

**Impact of aerosol particle sources on optical properties in urban, regional
and remote areas in the north-western Mediterranean**

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Parameters	BCN	MSY	MSA
σ_{sp}	-	2010-2014	2011-2014
σ_{ap}	2009-2014	2010-2014	2011-2014
Species concentration	2004-2014	2004-2014	2010-2014

Table S1. Study period considered for the measured parameters (σ_{sp} , σ_{ap} and chemical species concentration) at the three
5 different sites (BCN, MSY and MSA).

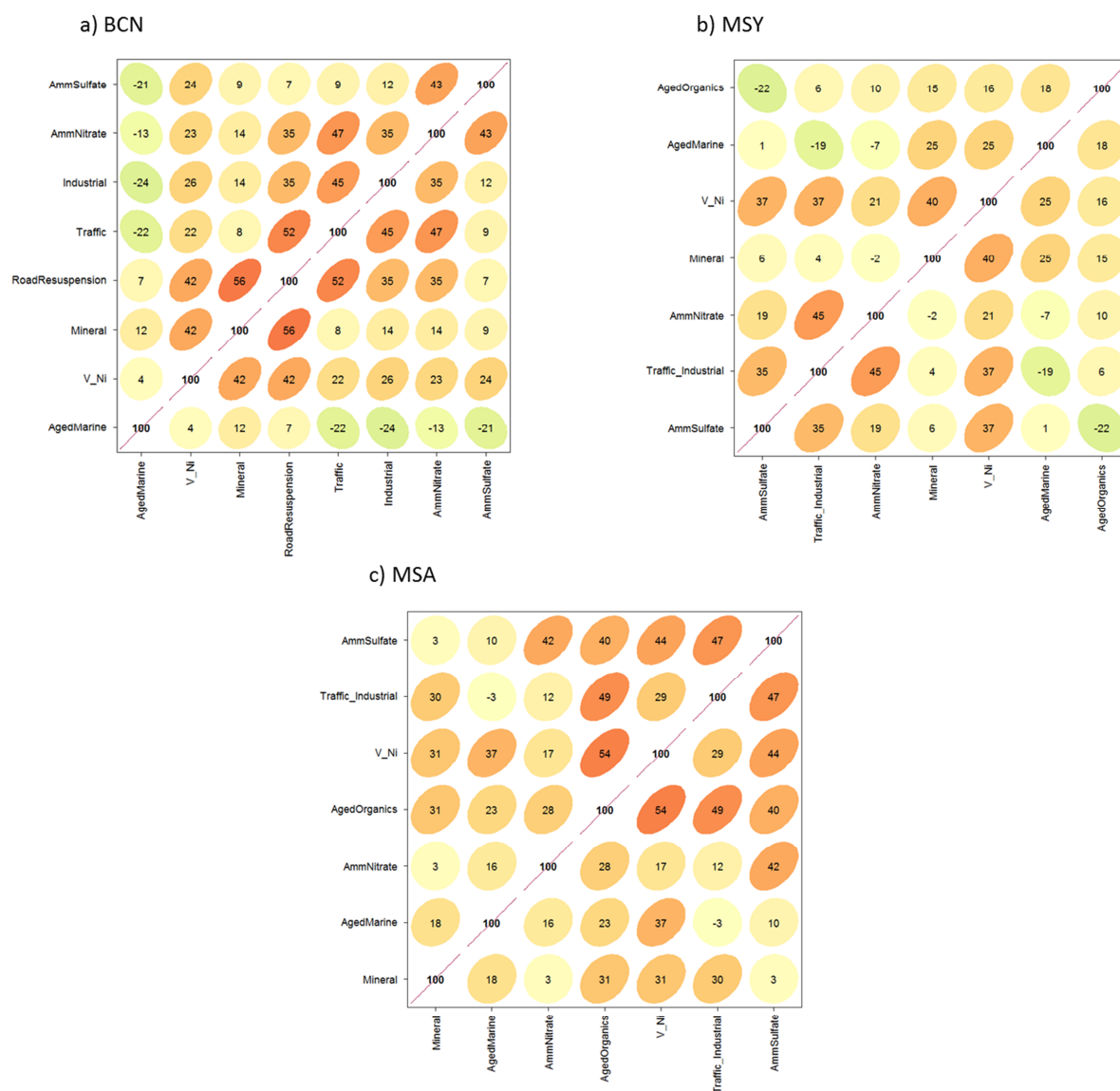


Figure S1. Correlation matrix between pairs of aerosol sources obtained by means of the PMF model at a) BCN, b) MSY and c) MSA. The correlation is coded by shape and colour for better visualization, lower correlations are represented by circles and lighter colours whereas higher correlations are represented by ellipses and darker colours.

Legend: ■ % of Species
■ Conc. of Species

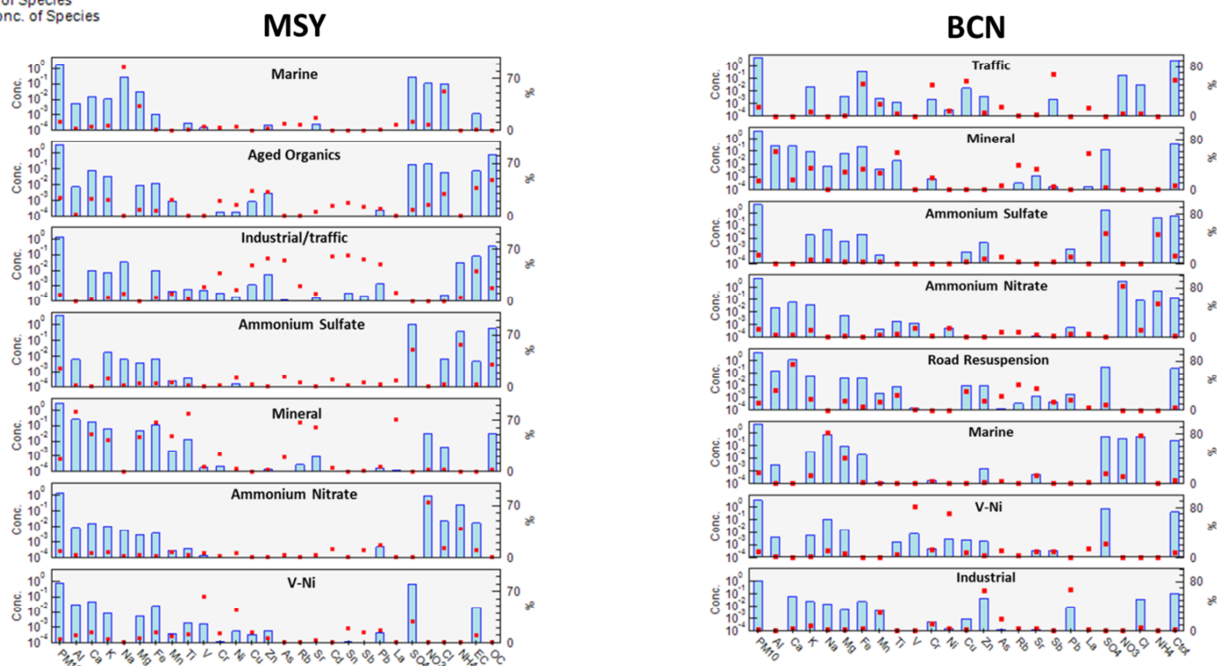


Figure S2. Source chemical profiles obtained by means of the PMF model at MSY and BCN for the period 2004-2014 (Pandolfi et al., 2016).