

Interactive comment on “Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer” by Markus Furger et al.

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During the discussion stage of the manuscript we realized an issue with the time axes, which meanwhile could be completely resolved. The issue required corrections for those data where NABEL and Xact data were combined, i.e. for the North/South source apportionment. The regressions with the filter (ICP) data are not concerned, as these data were carefully (manually) extracted from the raw data. The changes concern Table 1 (new S1), Fig. 1 (right panel), Figs. 4, 11 (new 9), and S5, the time specifications in the text, and the mass budget estimate in Section 3.3. The changes to the statistics were minor and did not influence the conclusions. As some figures required corrections, we took advantage and also redrew other figures to make them consistent (axes

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ranges, element groups). Resulting changes to the text were applied where necessary.

The following changes were made:

All times are now reported in local time LT (= CET + 1 = UTC + 2).

Table 1 (new S1): Statistics for non-fireworks north and south sectors updated.

Table 3 (new 2): Column 2 (“all days”) removed.

Fig. 1: Right panel updated.

Fig. 4: Xact data shifted by 1 h. The fireworks peaks of the Xact and the TEOM show a 1-h difference.

Fig. 8 (new 7): Elements arranged into groups A, B, C as in the text.

Fig. 11 (new 9): Data updated. Elements arranged into groups A, B, C as in the text.

The mass budget estimate had to be adjusted. Instead of comparing just the two 1-h maxima (TEOM and Xact), we integrated the mass over the full peaks (2 h for Xact and ACSM; 3 h for TEOM).

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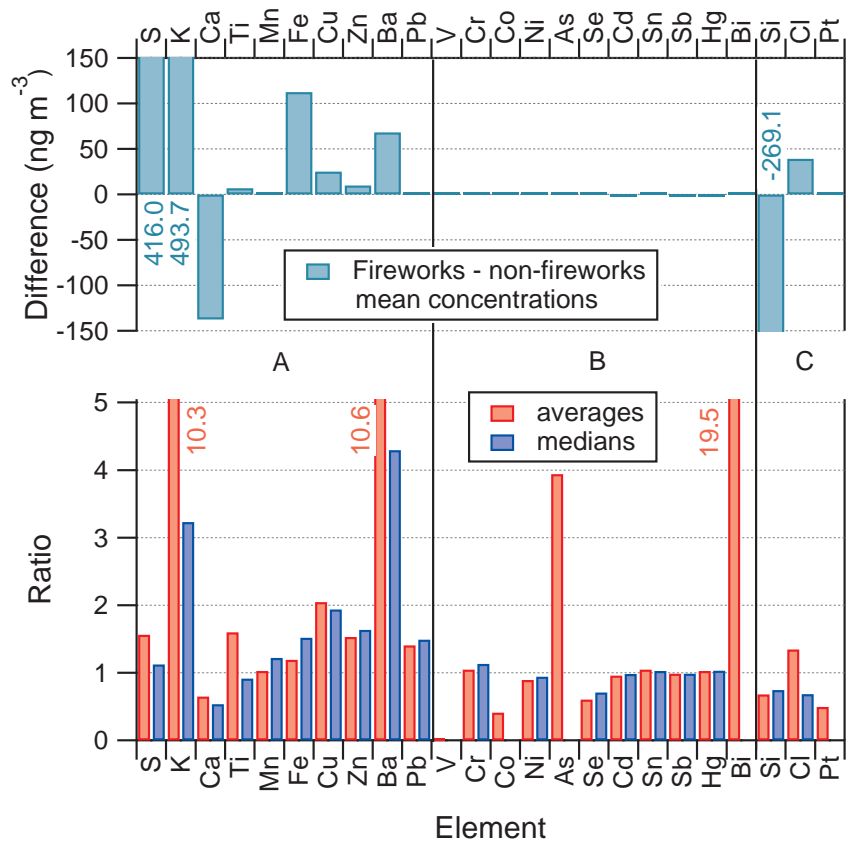


Fig. 1. New Figure 7.

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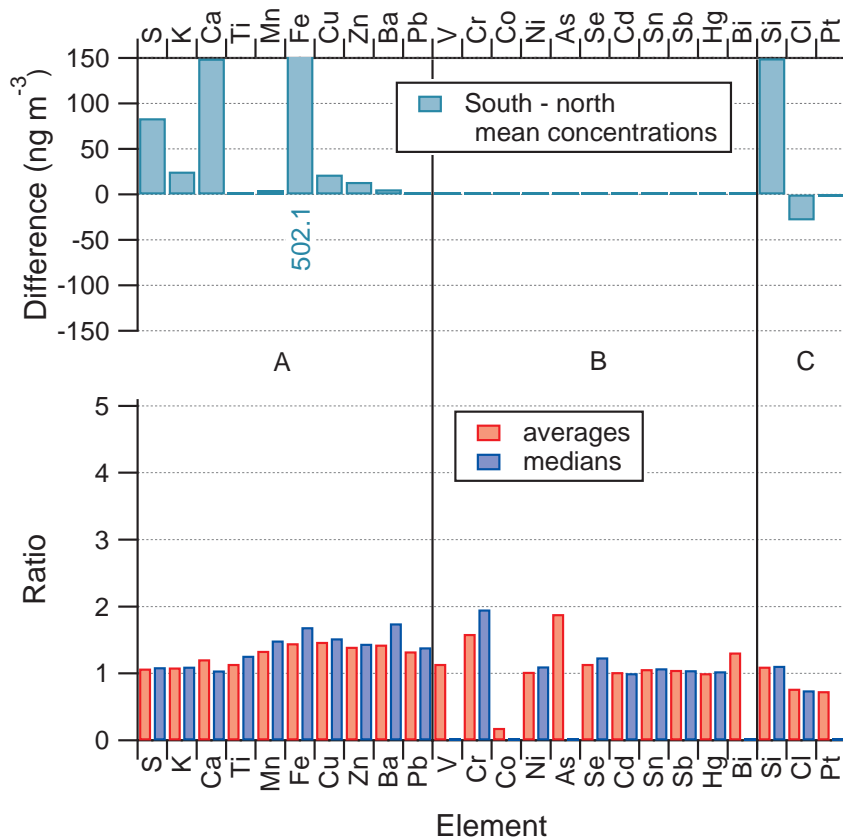


Fig. 2. New Figure 9.