

Interactive comment on “Airborne emission measurements of SO₂, NO_x and particles from individual ships using sniffer technique” by J. Beecken et al.

J. Beecken et al.

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Received and published: 13 March 2014

We thank Anonymous Referee #2 for the comments on our paper. We address these comments in the section below. Our answers are given in italic style.

- Title: using *a* sniffer technique This is corrected now.
- Abstract: lines 5-6: report precision as 20% for SO₂ and 24% for NO_x. Excessive sig figs included in manuscript. This is corrected now.
- P 10619, line 14: "in often technologies" this text does not make sense The sentence is corrected to: "However these possibilities are often limited due to high costs for

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investments in technologies which are under ongoing development.”

- P 10622, NO/NO_x = 80% seems low. Is this a mass or molar ratio? Molar ratio is preferred for consistency in comparing with other studies. It is a molar ratio and we clarified this now in the text. It has been found in earlier studies by Alföldy et al. (2013)

- P 10627, lines 2-3: 19 and 22%, lines 7-8: 20 and 24%, line 16: 20%. Do not report excessive precision for these uncertainty estimates. This is corrected now.

- P 10631, Alföldy (Alföldy et al., 2012) should be Alföldy et al. (2012). This is corrected now.

- P 10632, Mexican Gulf should be written as Gulf of Mexico This is corrected now.

- P 10634, line 17: controlled should be inspected (incorrect usage of controlled in English) This is corrected now.

- P 10634, lines 23 and 24: aircraft does not take an "s" when plural, should be aircraft not aircrafts This is corrected now.

- P 10640, table caption would be better labeled Overview *of* instruments used *in* the different campaigns This is corrected now.

References Alföldy, B., Lööv, J. B., Lagler, F., Mellqvist, J., Berg, N., Beecken, J., Weststrate, H., Duyzer, J., Bencs, L., Horemans, B., Cavalli, F., Putaud, J. P., Janssens-Maenhout, G., Csordás, A. P., Van Grieken, R., Borowiak, A., and Hjorth, J.: Measurements of air pollution emission factors for marine transportation in SECA, Atmospheric Measurement Techniques, 6, 1777-1791, 2013.

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 10617, 2013.

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