Atmos. Meas. Tech. Discuss., 6, C3266–C3267, 2013 www.atmos-meas-tech-discuss.net/6/C3266/2013/

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## **AMTD**

6, C3266-C3267, 2013

Interactive Comment

## Interactive comment on "Mobile measurements of ship emissions in two harbour areas in Finland" by L. Pirjola et al.

L. Pirjola et al.

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Our measurement methods are totally different. We performed online measurements of ship plume pollution concentrations and particle size distributions at the fixed sites at the ports or along the shipping channel at the coastal areas whereas Juwono et al. (2013) measures aboard the ships by collecting a large volume of air into a bag for subsequent analysis (so called Plume Capture and Analysis System PCAS). In both studies the emission factors are calculated by the same equation which is widely used in literature. Despite the different measurement methods and different ships (passenger ships vs dredging ships) the results are in good agreement with each other. The only exception is the emission factors for SO2 which are lower in Juwono et al. (2013)

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Interactive Discussion

Discussion Paper



due to the fact that their vessels used ultralow sulphur (<10 ppm) diesel. We have now cited this paper.

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 7149, 2013.

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6, C3266-C3267, 2013

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