Supplement of

Characterization of the particle emission from a ship operating at sea using an unmanned aerial vehicle

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The DISCmini was compared with a reference CPC (TSI 3772) for ambient measurements onboard the ship over a period of several hours. Linear regression of the data with an intercept set at origin resulted in an $R^2$ value of 0.982. This regression equation was used to correct DISCmini concentrations in emission factor calculations.

Figure S1: Comparison of the DISCmini with the CPC in the aerosol laboratory onboard the investigator.

The IAQ-calc 7545 was compared with a PICARRO Greenhouse Gas Analyzer for ambient measurements onboard the ship over a period of several hours. It was found there was a positive offset of $93 \pm 2$ ppm (standard error) of between the two measurements.
Figure S2: Comparison of the IAQ-calc 7545 with the PICARO in the aerosol laboratory onboard the investigator. Bars indicate the 95% confidence interval around the mean.