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Supplement of

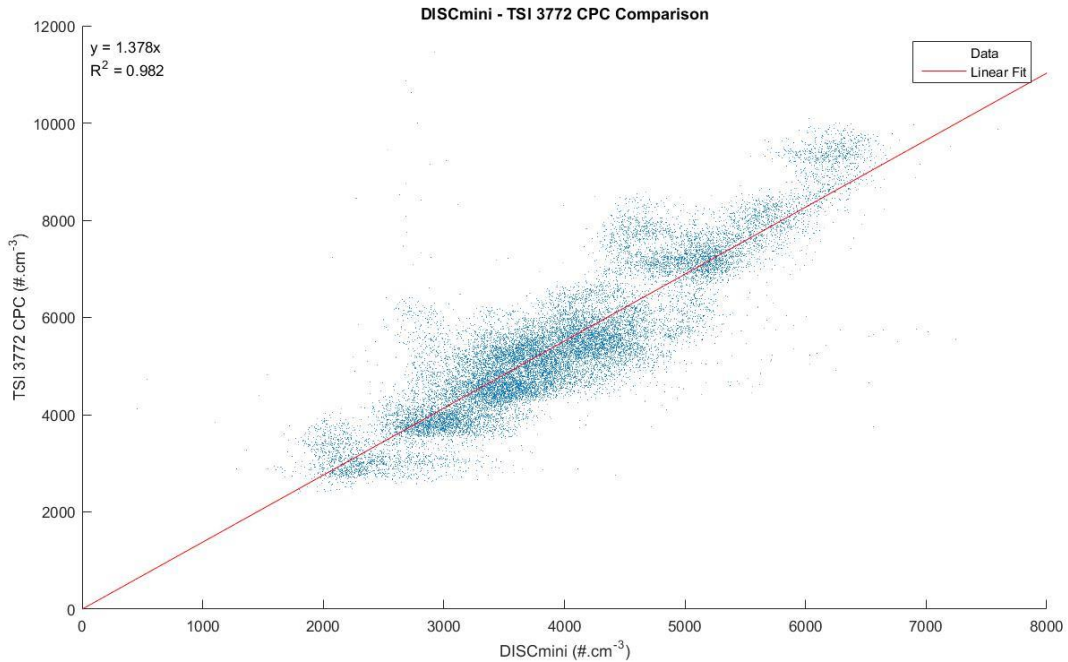
Characterization of the particle emission from a ship operating at sea using an unmanned aerial vehicle

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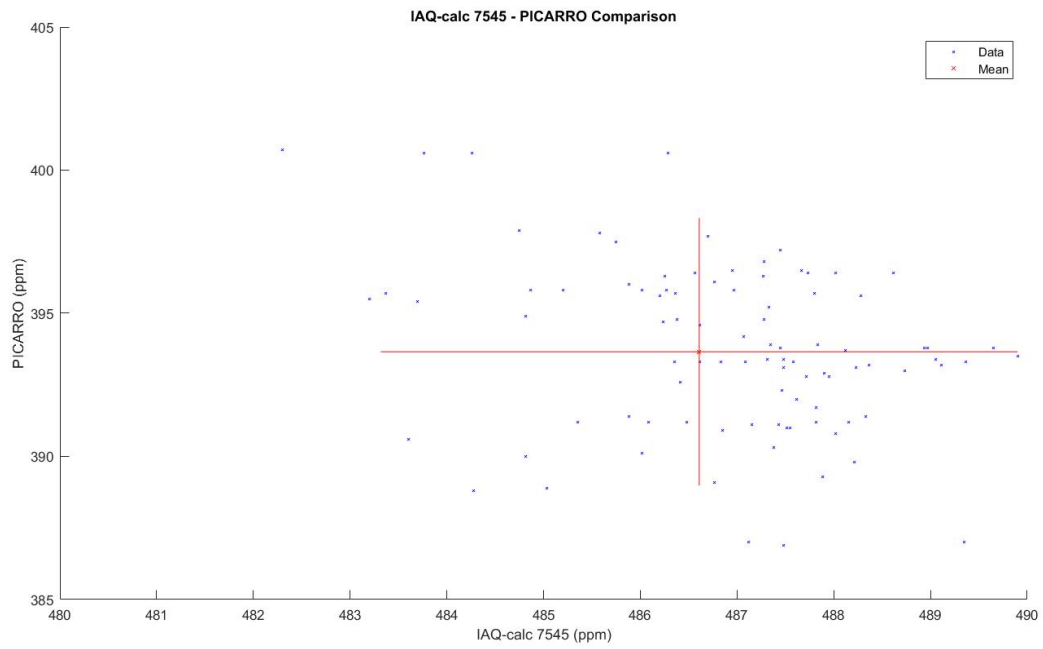
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1 The DISCmini was compared with a reference CPC (TSI 3772) for ambient measurements onboard the
2 ship over a period of several hours. Linear regression of the data with an intercept set at origin resulted
3 in an R^2 value of 0.982. This regression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



5
6 **Figure S1: Comparison of the DISCmini with the CPC in the aerosol laboratory onboard the investigator.**

7
8 The IAQ-calc 7545 was compared with a PICARRO Greenhouse Gas Analyzer for ambient measurements
9 onboard the ship over a period of several hours. It was found there was a positive offset of 93 ± 2 ppm
10 (standard error) of between the two measurements.



11

12 **Figure S2: Comparison of the IAQ-calc 7545 with the PICARRO in the aerosol laboratory onboard the investigator. Bars**
13 **indicate the 95% confidence interval around the mean.**