

***Interactive comment on “Black carbon from ships: a review of the effects of ship speed, fuel quality and exhaust gas scrubbing” by D. A. Lack and J. J. Corbett***

**Anonymous Referee #3**

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This manuscript uses data from the 42 studies in the literature to compare measurement techniques and to estimate of the effects of ship speed, fuel quality and exhaust gas scrubbing on the black carbon emission factors. While the uncertainties are extremely high, this study does summarize the current best estimates and will hopefully inspire further research in this area. As the authors point out, reducing BC emissions could be particularly important in the Arctic.

I recommend publication with minor edits.

1. Please show the  $R^2$  values in figure 1.
2. Pg 3517 line 15 “into” BC

C145

3. Figure 6. Are these the study numbers in table 3? The legend is too small to read. What is the difference in the dotted and solid lines?
4. Pg 3528 line 9 remove “within”

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Interactive comment on Atmos. Chem. Phys. Discuss., 12, 3509, 2012.