Atmos. Chem. Phys. Discuss., 14, C9171–C9172, 2014
www.atmos-chem-phys-discuss.net/14/C9171/2014/

Atmospheric Chemistry and Physics Discussions

Interactive comment on "Emission factors of SO_2, NO_x and particles from ships in Neva Bay from ground-based and helicopter-borne measurements and AIS-based modeling" *by* J. Beecken et al.

Anonymous Referee #2

Received and published: 14 November 2014

Review of Manuscript #ACP-2014-742: Emission Factors of SO2, NOx and Particles from Ships in Neva Bay from Ground-Based and Helicopter-Borne Measurements and AIS-Based Modeling, by Beecken et al.

General assessment: This paper provides information concerning the emissions from commercial shipping of species that are important for air quality and climate. The observations are of high quality, the methodology for calculation of emission factors is sound, the conclusions are both reasonable and significant, and the paper is well

written. I recommend publication without changes.

Comment: Studies of real-world emissions from ships are critical for both air quality concerns as well as climate. As the authors point out, changes in regulations are occurring at all levels of government, from local/regional to international, with the intent of reducing the environmental impacts of this critical sector of the global economy. Having accurate information on how effective these regulations are informs both the policy-making community as well as industry, benefitting both. In particular, this information will be absolutely essential as more of the Arctic environment becomes available for commercial ship traffic.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 25931, 2014.

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Interactive Discussion

Discussion Paper