

**Arctic Council Working Group on  
Protection of the Arctic Marine Environment (PAME)  
Bibliography: Air Emissions in the Arctic**  
(last updated 17 March 2015)

Recommendation II(H) of the 2009 Arctic Marine Shipping Assessment (AMSA) Report provides:

*That the Arctic states decide to support the development of improved practices and innovative technologies for ships in port and at sea to help reduce current and future emissions of greenhouse gases (GHGs), Nitrogen Oxides (NO<sub>x</sub>), Sulfur Oxides (Sox) and Particulate Matter (PM, taking into account the relevant IMO regulations.*

The Arctic Council Working Group on the Protection of the Arctic Marine Environment (PAME) adopted a Record of Decision at its September 2014 meeting in Whitehorse, Canada inviting Arctic Council member governments to submit to the PAME Secretariat information on studies and assessments, both existing and ongoing, on ship air emissions (in particular black carbon) in the Arctic, methodologies for measuring emissions, and the effect of such emissions on the Arctic marine environment.

This document consolidates the submissions of the several Arctic States to the PAME Secretariat.

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