

Interactive comment on “Measuring SO₂ ship emissions with an ultra-violet imaging camera” by A. J. Prata

A. McGonigle (Referee)

a.mcgonigle@shef.ac.uk

Received and published: 6 January 2014

This article presents a novel and interesting feasibility study concerning the use of UV cameras for monitoring emissions from ships. This approach has recently been put to considerable use in constraining gas emissions from volcanoes, and this alternate application could be of significance within maritime studies, the shipping industry and for emissions regulatory agencies, and hence I recommend that this article ought to be published within Atmospheric Measurement Techniques. In the main the paper is well presented and clearly conveys the major messages.

I have only one comment which I wish to include to add to the previous significant contribution of reviewer one. This concerns the point also raised by that reviewer re-

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



garding the use of a single filter in these observations. The concern here is the extent to which other gases or soot are also contributing to the absorbance around 310 nm, which are not being normalised out by having a secondary "control" measurement at 330 nm. I concur with the first reviewer that some additional text is required here to really persuade the reader that this isn't such an issue, that it could compromise the fundamental tenet of the paper - that proof of concept is being demonstrated here. As this paper is intended to be a proof of concept at this stage, I don't think we need to see the final or perfect system reported on here, but I would encourage the authors to try and better persuade us of this point.

Other than this though, this is a good piece, which I would recommend be published in the journal

AMcG 6.1.2014

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 9467, 2013.

AMTD

6, C3882–C3883, 2014

[Interactive
Comment](#)

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

