

***Interactive comment on* “A network of autonomous surface ozone monitors in Antarctica: technical description and first results” by S. J.-B. Bauguitte et al.**

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Response to Reviewer 2

- A new table (Table 2) has been included presenting calibration parameters pre- and post-deployment

- Unfortunately no more information on power consumption e.g. in Amp or Amp-h is available, and no attempt was made to estimate the heat/energy removed by the cold air passing through the instrument. These could be done for future deployments.

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- As the systems operated in very remote locations, and as there were no digital cameras employed in the experiment, we have no information regarding how much rime was encountered. One would expect considerable potential for rime, particularly at the coastal sites, given the amount of rime observed at manned coastal stations.

- Page 5801/line 20: The majority of the inlet was heated and insulated, but the heating and insulation did not extend completely to the end of the inlet. Hence an unprotected tube is visible in Fig 2c, but equally, the heated and insulated tubing can be seen running up the left hand leg of the solar panel in Fig 2b. For clarification in the manuscript we have altered “Heat tracing was supplied along the ~ 2 m length of the PFA sample tubing” to “Heat tracing was supplied along the majority of the ~ 2 m length of the PFA sample tubing”.

- 5801/26: Sampling was suspended when wind speeds were high to avoid any increased chance of snow ingress into the inlet line. To clarify this in the text we have altered “Finally, sampling was suspended when the wind speed was above 25 knots (~ 13 ms $^{-1}$).” to “Finally, sampling was suspended when the wind speed was above 25 knots (~ 13 ms $^{-1}$) to avoid any increased chance of snow ingress into the inlet line.”

- 5802/3-4: Vendor information has now been included.

- 5805/17: Table 2 now includes calibration information. Further analysis of agreement between instruments will be presented in the data paper to follow this technical one.

- Thank you, yes, our text was ambiguous, now re-worded as suggested.

- 5807/4: The lamp was off simply because the ozone monitor was off during system checks. We have now adjusted the text to read: “During these checks, the ozone monitor, and thereby the Hg-lamp, was off”

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 5795, 2010.

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