

Interactive comment on “An uncertainty-based protocol for the setup and measurement of soot/black carbon emissions from gas flares using sky-LOSA” by Bradley M. Conrad and Matthew R. Johnson

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I am a government researcher studying air emissions from the oil and gas industry and am in the process of purchasing equipment and building the knowledge and skills to perform skyLOSA measurements both in Canada and abroad. I am eager to use the setupSkyLOSA tool to see if the locations we chose while acquiring flare images during fieldwork in 2019 were well-suited for skyLOSA.

I especially appreciate the detailed description of the uncertainties in the paper. Thor-

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ough and open presentation of model and measurement uncertainties is critical when employing complex tools in the context of measurement, reporting, and verification of emissions. In the MRC context, the setupSkyLOSA tool without the accompanying peer-reviewed publication would lose much, if not all of its usefulness.

I also see great value in the numerous rules of thumb this manuscript provides, which enable a potential sky-LOSA setup operator to set up their equipment and acquire images faster and with greater confidence. This is especially important in the field where changing wind direction, sun location, and clouds can quickly render a once-suitable location unusable.

[Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2020-255, 2020.](#)

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