Interactive comment on “A remote sensing technique for global monitoring of power plant CO₂ emissions from space and related applications” by H. Bovensmann et al.

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Congratulations on this very interesting and topical paper.

I wanted you to be aware that there is a recent paper on a new CO2 product from TES that would be good to cite on page 60. The citation is:

One other comment I had is that Table 5 gives the impression that plume concentration uncertainties of ~2 ppm are required to estimate emissions to about 10%. However, at a 2 km footprint, the enhancement from the plume is 3%, or 12 ppm. An uncertainty of 2 ppm in XCO2 would be about a 17% uncertainty in the plume amount if the rest of the profile is known. Could the authors comment on this, and/or discuss the uncertainties required for the plume concentration itself rather than the XCO2 value which includes a lot of non-plume atmosphere? Hopefully you can follow the above—thanks!