Discussion: Segmentation of XCO_2 images with deep learning: application to synthetic plumes from cities and power plants

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Comment of the reviewer

My previous review only had a few recommended revisions and the authors have done a good job at addressing them. One minor exception is a suggested citation. In the authors' response, they state that they would cite https://doi.org/10.3389/frsen.2022.1028240 in the conclusion, but have instead cited https://doi.org/10.1002/2017GL074702. Both are relevant papers, however, the newer paper is a better choice as it deals with European examples with wider-area XCO_2 images more similar to CO2M, unlike the earlier paper using OCO-2 examples in the U.S., India and South Africa. I also suggested capitalization of WBCE and NWBCE, which the authors have implemented. Yet "bce" remains lower case. I missed this one, but it only makes sense to capitalize the few instances of BCE as well. This is a very minor point to improve readability.

The paper https://doi.org/10.3389/frsen.2022.1028240 has been added in the conclusion (following https://doi.org/10.1002/2017GL074702 already cited)

The text has been updated to capitalise "BCE" consistently with "WBCE" and "NWBCE".

We would like to express our sincere appreciation to Ray Nassar for his numerous contributions and thorough review of the manuscript on two occasions.