

Interactive comment on “A simulated observation database to assess the impact of IASI-NG hyperspectral infrared sounder” by Javier Andrey-Andrés et al.

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Dear Authors,

please note that the following paper discusses the added-value of one possible configuration of IASI-NG in the characterisation of the lower troposphere in terms of the ozone concentration: Sellitto, P., Dufour, G., Eremenko, M., Cuesta, J., Dauphin, P., Forêt, G., Gaubert, B., Beekmann, M., Peuch, V.-H., and Flaud, J.-M.: Analysis of the potential of one possible instrumental configuration of the next generation of IASI instruments to monitor lower tropospheric ozone, Atmos. Meas. Tech., 6, 621-635, <https://doi.org/10.5194/amt-6-621-2013>, 2013. Even if your paper does not directly

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address the topic of air quality, I think that citing this work would be useful when discussing your results (and IASI-NG expected added-value), see e.g. this sentence in your conclusions: "A reduced sensitivity in the low troposphere is confirmed for IASI and, additional work is required to check if IASI-NG will be able to better probe the atmosphere at these levels."

In addition, I also suggest to open your discussion to possible multi-spectral synergies, with reference to the following paper: "Costantino, L., Cuesta, J., Emili, E., Coman, A., Foret, G., Dufour, G., Eremenko, M., Chailleux, Y., Beekmann, M., and Flaud, J.-M.: Potential of multispectral synergism for observing ozone pollution by combining IASI-NG and UVNS measurements from the EPS-SG satellite, Atmos. Meas. Tech., 10, 1281-1298, <https://doi.org/10.5194/amt-10-1281-2017>, 2017."

I suggest adding these two references to put your very useful work in a slightly wider context.

My best regards,

Pasquale Sellitto

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