

Interactive comment on “Total column CO₂ measurements at Darwin, Australia – site description and calibration against in situ aircraft profiles” by N. M. Deutscher et al.

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I strongly support a request of the Reviewer #1 for a more detailed consideration of the convolution procedure for aircraft profiles. Rodgers & Connors paper really concentrates on layer-by-layer retrievals, but also considers total column data that are integrated from retrieved profiles. Do the authors use the standard averaging kernel technique of layer-by-layer perturbations? The layers in their forward model seem to be different in partial columns (and geometrically constant). Do they perturb the layers by equal VMR or equal partial columns?

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 989, 2010.

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