Interactive comment on “Water vapour profiles from SCIAMACHY solar occultation measurements derived with an onion peeling approach” by S. Noël et al.

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We thank the referee for the comments and will consider them in the revised version of the paper.

Answers to general comments:

Main comment is that a detailed error analysis/budget and assessment of precision and accuracy is missing. The revised version of the paper will include a dedicated section in which the errors will be summarised and discussed.
Answers to specific comments:

1. *Introduction p205: confusion is made between Optimal Estimation and Global fit approach (which is not mentioned in the text). Actually OE and onion peel-ings are not opposite (and it’s possible to develop an OE based on onion peeling approach). The text must be clarified and the global fit approach must be mentioned [reference: Massimo Carlotti, “Global-fit approach to the analysis of limb-scanning atmospheric measurements,” Appl. Opt. 27, 3250-3254 (1988)]*

   It is agreed that OE and onion peeling are not opposite and may in fact be combined. The introduction section will be re-formulated and also include the reference to the Global Fit method mentioned above.

2. *Fig 2. is difficult to read, please coarsen lines the curves.*

   The lines will be thicker in the revised version of the paper.

3. *Fig 3. Please grow the symbols in the upper panel.*

   OK.