

2nd Review of “The Antarctic stratospheric Nitrogen Hole: Southern Hemisphere and Antarctic springtime total nitrogen dioxide and total ozone variability as observed in Sentinel-5p TROPOMI data” by A. de Laat et al.

< General Comments >

I felt that the authors have made great effort to revise the paper. I think that most points which I have raised have satisfactorily answered by the authors. I think that the paper is now ready to be published. I have some minor comments which had better modify before publication which is described below.

< Major Comments >

- 1) In the RC1 1), change of the action is suggested. However, in the revised manuscript, the following sentence is somehow missing. I would recommend to add it to the manuscript. “The amplitude of the adjustment depends strongly on the effective SZA assigned to the ZSL-DOAS measurement: it is taken here to be 89.5.
- 2) Section 2.3, the authors added a references [van der a et at, 2010, 2015], which are not found in the reference list.
- 3) Figure 1A. The last sentence ends somewhat strange: “Note that for ...”. Please add correct catption.