

Response to comments from editor

Please find below our response (in roman font) to your comments (in italic font). We have also made some clarifications to the Supplement.

Minor comments

- *P3, L12: please indicate the spatial resolution as 7 km x 7 km or 7 x 7 km² here.*
Corrected to 7×7 km².
- *P6, L10: I suggest to indicate the wavelength here as 0.488 um or 488 nm.*
Corrected to 0.488 μm.
- *P8, L6: 'include' -> includes*
Corrected.
- *P14, L33: 'signifcant' -- > significant*
Corrected.
- *P17, L28: 'total' -> tropospheric. Earlier you mentioned that no stratospheric NO2 amounts are simulated.*
Corrected.