

Response to Anonymous Referees on acp-2023-1437

Solar FTIR measurements of NO_x vertical distributions - Part 2: Experiment-based scaling factors describing the daytime variation of stratospheric NO₂ and NO

We thank the Reviewer #2 for the technical correction. Below we provide our answers to their specific comments and the details of the changes made to the revised manuscript.

Response to Anonymous Referee 2

- Is there a reason for choosing to normalize to 72 degrees instead of some other SZA? It would be good to mention this.

We thank Reviewer #1 for this comment.

We added in line 129-130 of the revised manuscript the following sentence:

(which is the only value being present in all monthly data sets)

- line 156: 'originated' should be 'originating'

Done

- line 203: change 'so NO production has been significant already' to 'so there has already been significant NO production'

Done

- line 204: change to 'levels are still lower'

Done

- line 232: still says you normalized to the 15th day of the month, change to 72 degrees

Done