

**Public justification (visible to the public if the article is accepted and published):**

Dear Stefano Federico and co-authors,

Thank you for the revised manuscript, which is almost ready for publication.

A last remaining issue is concerning the reviewer's comment on the use of radiosounding error in Fig. 5b. Please clarify in the text where the data is taken from.

Best regards,

Shira

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Dear Shira,

thank you for your work on this paper. We added the information that we used the file SPD.txt of the WRF data assimilation package (WRFDA), and we added the ink to the package. We wrote:

“Figure 5 panel b) shows the wind observation error averaged for each vertical level (black curve), the model wind speed error (blue curve) and the radio-sounding wind errors used in the WRF data assimilation (red line) as functions of altitude. The latter was derived from the file SPD.txt available in the WRFDA tool (see <https://www2.mmm.ucar.edu/wrf/users/wrfda/>).”