# Author's reply to the Anonymous Referees, revised submission

We thank the Referees once again for reviewing our manuscript.

### Author's reply to the Anonymous Referee #1

#### We have implemented all technical corrections suggested by the Referee:

- On line 210, add a space between the m and s in the unit m s<sup>-1</sup>. Add the unit to the second time the value is mentioned (i.e., write "0.5 m s<sup>-1</sup>", instead of "0.5<sup>-1</sup>").
  - Line 265: change to "Underestimation of the CBLH from the C-band data"
  - Line 266: change to "while underestimation from the W-band data"
  - Line 266: change to "flaws in the algorithm"
  - Line 288: change "K-band" to "Ka-band"
  - Line 289: change to "and are chosen to be"
  - Line 290: change to "in the millimeter wavelength radars"
  - Line 313: change to "in some cases a time lag"
- Line 314: change to "the temperature threshold for insect flight", the word 'comfort' is a bit confusing here and so I suggest you remove it
  - Line 318: change to "when precipitation would have to cease"
  - Line 319: change to "where different insect flight behaviour"
  - Line 331: change to "of this type of radar is lower"

#### Author's reply to the Anonymous Referee #2

Specific Comments

1. Include an estimate of ERA5 BLH parameter error bars (if knowable) in Section 2.3.

## ERA5 BLH parameter error is not known, therefore we could not include it.

We have implemented all technical corrections and specific comments suggested by the Referee:

- 2. Remove all absolute statements about radar-derived CBLH accuracy.
- a. Line 279: Change "underestimated" to "slightly lower than the ERA5 and Halo Doppler lidar CBLH estimates."
- b. Line 281: Change "good" to "comparable to that of the ERA5 and Halo Doppler lidar CBL estimates"
  - c. Line 303: Change "verified with" to "compared to".

Technical Corrections

Line 283 Change "Halo Doppler radar" to "Halo Doppler lidar".