

Response to reviewers comments

Is it north or west foehn? A Lagrangian analysis of PIANO IOP 1

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Thank you for accepting the manuscript for publication. Following the recommendation we went through the manuscript and shortened a few passages, where we think that this is possible without losing context. However, this did not change the overall character of the manuscript. We additionally provide a version of the manuscript where these changes are highlighted. Our changes are:

- Section 4.1, Lines 311–320: deleted rough description of the vertical evolution as this is described in more detail for the individual trajectory branches in the next two paragraphs in more detail. Added information in the last paragraph (Lines 330–335) which would have been lost otherwise.
- Additionally updated Figures 7 and 9 to simplify the information on the air stream contributions.
- Rearranged Section 4.2.1 to avoid repetitions inside the paragraph.