

Breeze effects at a large artificial lake: summer case study

AUTHORS' RESPONSES TO THE ADDITIONAL REVIEWER 1 COMMENTS

Maksim Iakunin¹, Rui Salgado¹, Miguel Potes¹
miakunin@uevora.pt

¹Department of Physics, ICT, Institute of Earth Sciences, University of Évora, 7000 Évora, Portugal

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1 Introduction. Document structure

This document contains authors' responses to the comments of the Reviewer. The document structure is the following:

- Reviewer's comments are numbered and given in *italic font*. General, specific, and technical comments come separately.
- Authors' response follows the comment and starts after "**Response:**" with normal font.
- The text from the article itself (if some changes were done, and if it is reasonable to provide it) is typed with **typewriter font** and separated from the response with an extra blank line.

3 Anonymous Referee 1

1 *General comments*

The manuscript has improved from the first phase and is nearly ready for final publishing. The authors have answered successfully to all of the comments I made in the first phase and done the requested modifications to the manuscript. There are, however, few minor issues to be solved before proceeding further.

2 *Technical comments*

2.1 Comment 1

The language has improved but there are still some places where the text is hard to follow. I again suggest that the authors get editing help from someone with full professional proficiency in English.

Response: manuscript was re-reviewed one more time by all authors and several minor corrections regarding the language.

2.2 Comment 2

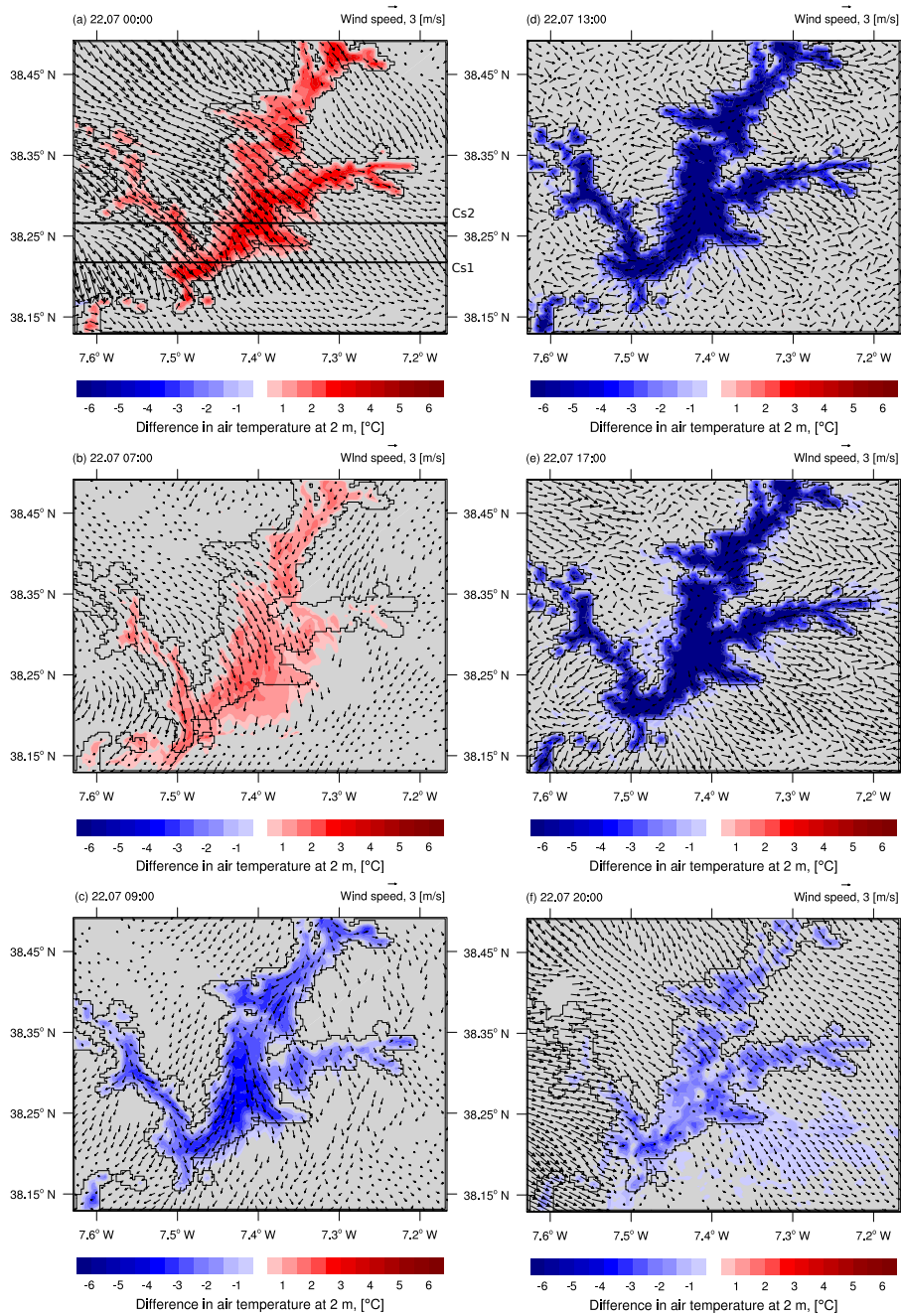
You seem to cite the supplementary Fig. S3 before S2 (so please change the numbering). Also, I cannot find any citation to supplementary figures S4-S6 from the text.

Response: Numbering for S2 and S3 was changed (S2 \leftrightarrow S3). References to supplementary figures S4-S6 were put into the text at corresponding places.

2.3 Comment 3

You named (as the referee 2 asked) the cross sections to S1 and S2. This is a bit confusing when you also cite supplementary figures S1 and S2. I would change the references to the cross sections to something else (I recommended roman numbers I and II in the first phase). Actually, it would be nice to see the names of the cross sections in the figure as well (next to the lines).

Response: Cross-sections were renamed to Cs1 and Cs2 to avoid confusing and corresponding labels added to Fig. 9:



2.4 Comment 4

You made the interpolation of wind speeds from 10 m height to 2 m. I think this should be mentioned in the text and the method should be cited.

5 **Response:** Used approach is well-known and we decided that no citation needed. The following text was added:

Regarding wind speed, Meso-NH provides values for 10 meters height while the measurements were done at 2 meters. For proper comparison modelled values were interpolated to the height of the sensors using known logarithmic approach and a roughness length (which was also got from the model).

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