

## ***Interactive comment on “An intercomparison of mesoscale models at simple sites for wind energy applications” by Bjarke Tobias Olsen et al.***

**Bjarke Tobias Olsen et al.**

btol@dtu.dk

Received and published: 1 March 2017

C1

### Comments to anonymous reviewer #3

Bjarke Tobias Olsen, Andrea N. Hahmann, Anna Maria Sempreviva,  
Jake Badger, Hans E. Jørgensen

Reviewer comments in **bold text**. Author comments in plain text.

**This paper presents an interesting comparison of mesoscale models at sites with flat orography. While the study is of relevance for the community, I believe it lacks in some aspects which could be easily fixed. First of all, the introduction seems too long. It could benefit of a condensation of some of the informations reported.**

We agree with the comment about the length of the introduction. We propose to shorten and improve it.

**Also, one could argue about the need of including the dataless sites in the comparison, since they don't add much value to the study. I would consider of removing them.**

We agree, and so did the other reviewers. We propose to entirely omit the dataless sites from the paper.

**As the authors state in the conclusions, "While it was a key objective of this**

C2

**study to determine the model setup choices that have a large impact on the models ability to estimate the wind climate accurately in the lowest part of the PBL, only weak indications were found.". I suggest putting more emphasis in trying to describe the differences and advantages/disadvantages of using different model configurations.**

We tend to agree, and suggest a revision of the section, leaving out much of the old content, and adding new results that go into more detail with three specific model options: PBL scheme, grid spacing, and simulation time.

#### **Typos:**

Thanks alot for finding these.

1. **-page 1 line 3: replace "a" with "an"**  
Thanks!
2. **-page 1 line 15: unnecessary "-"**  
Thanks!
3. **-page 2 line 27: replace "Meller" with "Mellor"**  
Thanks!
4. **-page 3 line 11: replace "spacial" with "spatial"**  
Thanks!
5. **-page 4 line 28: replace "is shown" with "as shown"**  
Thanks!
6. **-page 6 line 1: replace "Cabuw" with "Cabauw"**  
Thanks!

C3

7. **-page 13 line 24: replace "srpead" with "spread"**  
Thanks!
8. **-page 16 line 6: "exists" is repeated**  
Thanks!
9. **-page 16 line 7: replace "represeting" with "representing"**  
Thanks!
10. **-page 21 line 16: replace "used assess" with "used to assess"**  
Thanks!

---

Interactive comment on Wind Energ. Sci. Discuss., doi:10.5194/wes-2016-43, 2016.