

Interactive comment on “Very short-term forecast of near-coastal flow using scanning lidars” by Laura Valldecabres et al.

Anonymous Referee #2

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I found the organization of the paper followed a logical progression and clearly described the derivation of the corrections, models forecasts, and model evaluations. The well-organized structure made the paper easy to follow and was overall an enjoyable paper to read.

The demonstrated use of lidar measurements and the evaluation of applications of short-term forecasting models along a coast with variable height is a topical and valuable topic of study to the scientific community and applied wind energy development community.

I agree in general with the comments of the prior reviewer.

Technical comments:

C1

[p.3 l.7] The position number, 8, of the mast could be specified here for clarity.

[p.3 Figure 1] The right-hand scale should be labeled, presumably “height [m]”.

[p.17 l.2] It is not clear what is referred to by “this effect.” Presumably it means equivalent scatter in the advection results relative to the persistence and ARIMA models. Please clarify.

[p.18 l.1] This conclusion that the RMSE is smaller for stable cases than for neutral cases was not immediately apparent from the full set of results in the table. If this is referring to a comparison of the errors from the best fit models for each case, rather than the full set of results, please clarify that.

Minor typographical comments:

[p.2 l.16] I believe the comma belongs before the word “especially” rather than after it.

[p.2 l.18] No comma is needed after the word “Oregon”

[p.3 l.16] The word “see” should be “sea”

[p.4 l.12] The word “azimutal” should be spelled “azimuthal” in English.

[p.7 Figure 5] The word “temparatures” should be spelled “temperatures” in English.

[p.7 l.22] The word “to” should be added between the words “Due the”

[p.9 l.2] The word “method” is recommended to replace the word “way”

[p.11 l.14] To keep the subject of the sentence consistent for clarity, it is recommended to replace the first phrase with “But because r_{12} might not be parallel with $v_1(t)$ ”

[p.14 l.23] I believe the comma belongs before the word “namely” rather than after it.

[p.15 l.2] The word “it” should be removed from “as it can”