

## ***Interactive comment on “CO<sub>2</sub>-flux measurements above the Baltic Sea at two heights: flux gradients in the surface layer” by A. Lammert and F. Ament***

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Dear Reviewer, Thank you for your comments and suggestion.

1.) We have tried to characterize the cases with significant differences in CO<sub>2</sub> flux in more detail. Unfortunately we haven't found a clear signal in dependence to wind direction, season or stability.

Due to your suggestions and those of the other reviewer we have decided to concentrate more on the experiment and the measurements itself in this paper. The more detailed analyses and interpretation will be published in an additional paper.

Figure 4: Sorry, we couldn't reproduce the problem, maybe meanwhile it is solved.

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Minor comments: Thank you very much for your comments. We have included all corrections.

Please find the new version attached.

Please also note the supplement to this comment:

<http://www.earth-syst-sci-data-discuss.net/8/C324/2015/essdd-8-C324-2015-supplement.pdf>

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Interactive comment on Earth Syst. Sci. Data Discuss., 8, 587, 2015.