

Interactive comment on “Measurement of wind profiles by motion-stabilised ship-borne Doppler lidar” by P. Achtert et al.

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Summary:

- * This is a positive contribution to the fields of doppler lidar and ABL research. This paper will certainly move the field forward.
- * Excellent quality figures.
- * A very interesting work.
- * Language is almost flawless.
- * It is a fairly rare pleasure to review work of high quality.

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Specifics:

- (1) I have made comments at specific places in the text in my uploaded .tex file, so it is very clear to you the places where I am suggesting manuscript edits.
- (2) The biggest criticism that I have is with over-extensive use of correlation coefficient (coefficient of determination R^2). It is not appropriate in almost all scientific analysis. Much more useful if rmse, bias, etc. I have given suggested reading material in the .tex file. But if that R^2 issue is resolved, I expect to recommend this work to be published.
- (3) In general many aspects of this work are not described well enough that they could be repeated by others. So please add much more about experimental setups.
- (4) I think one case-study figure is needed, e.g. of a wind speed and direction profile time series for a day. It is hard for readers to fully interpret based on statistical summaries alone.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/8/C3281/2015/amtd-8-C3281-2015-supplement.zip>

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 9339, 2015.

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