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Atmospheric Measurement Techniques Discussions

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

Anonymous Referee #1

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A newly developed ship-borne wind lidar, consisting of a commercial wind lidar and a customized active stabilisation platform, is presented in this manuscript. Comparisons to radiosonde winds and a sonic anemometer are shown from a 3-month long cruise in the Arctic. The topic certainly fits very well to AMT, and the deployment of a ship-borne wind lidar is quite novel – only few references from NOAA are reported for these kind of measurements. The deployment during an Arctic cruise is also quite novel. My main comment is that the manuscript is limited to the statistical comparison and no atmospheric measurements in form of a case study are presented. Also some more evaluations of the statistical comparison must be provided. Thus, I recommend publication after these major comments are addressed.

Please also note the supplement to this comment:
http://www.atmos-meas-tech-discuss.net/8/C3005/2015/amtd-8-C3005-2015-supplement.pdf

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