

Interactive comment on “Evaluation of three lidar scanning strategies for turbulence measurements” by J. F. Newman et al.

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The dataset of the three lidar with sonic data is worth publishing. However some aspects need clarification.

Atmospheric turbulence is a rather complex phenomena that covers several order of magnitude both in space and time scale. This article seems to focus on a large geometrical scale of turbulence and a time scale well above 1 second. The scales of interest should be mentioned explicit.

The different behavior of the w variance at the different sites may have its origin in the vertical wind profile. Especially here the “point” measurement of a sonic compared to the sensing volume of a lidar should be discussed more in detail.

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The different temporal resolutions of the three lidar in table 1 will have an effect on the estimates of mean wind respectively variance. This should be discussed more in detail.

In table 1 pulse length, pulse energy and repetition rate of the wind cube and Halo Streamline would be interesting.

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