

***Interactive comment on “Combined wind measurements by two different lidar instruments in the Arctic middle atmosphere” by J. Hildebrand et al.***

**Anonymous Referee #4**

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Wind measurements in the upper atmosphere are not numerous and the comparisons between two techniques are very valuable. The results present in this manuscript are clear and allow a better characterization of the error sources. This manuscript should be published; only minor improvements can be added for improving the clarity of the results. Page 4127 line 15, I suggest to add few words about the use of an iodine cell Page 4128 line 16, line 1, Provide information about the accuracy and capabilities of the seeder. In general more information on expected accuracy can be recalled. Page 4128, line 26, provide details about the type of Fabry-Perot Page 4131, line 22, more explanations are required for the “zero line” issue. I suggest providing a schematic.

C1601

Line 25 says it is obvious. I disagree with this point. And because it is not, I suggest giving more explanation Page 4133, line 28, provide explanations about the use of the fourth degree of the polynomial functions Page 4134, line 10, about the scale of gravity waves and 40 km give references.

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Interactive comment on Atmos. Meas. Tech. Discuss., 5, 4123, 2012.

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