

Interactive comment on “Performance of high-resolution X-band weather radar networks – the PATTERN example” by K. Lengfeld et al.

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"Due to a beam width of 2.8° oversampled reflectivity data were used to achieve an angular resolution of 1° ." This concept of increasing the angular resolution of a weather radar should be explained in more detail, or a reference should be provided. If it would be so easy to increase the angular resolution more weather radars would apply this approach because the cost savings would be enormous. It is not understood what is meant with "oversampling" in this respect. The radar samples 15-16 pulses within 2.8° antenna beam width. Does it mean that only 5-6 pulses are used for dBZ estimation ($1^\circ/2.8^\circ$)?

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 8233, 2014.

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