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Atmospheric Measurement Techniques Discussions

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

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We appreciate the comment and agree in general. For operational X-band radars statistical clutter filters as proposed by Coveri et al. should be used. We apply a simple filter that eliminates disturbances caused by other radars and radio links are by filtering peaks within adjacent pulses before reflectivities are recorded as 30s averages (p. 8239, l. 21-23). We will describe this filter in more detail in the final manuscript and give the reference. Nevertheless, the project PATTERN intends to demonstrate that drawbacks of individual or stand-alone low-cost radars could be overcome when a network of these radars is used. Therefore, a large part of the scientific work concentrates on developing and testing the quality of clutter detection algorithms for different set-

ups (1, 2, 3 or 4 radars) using information of multiple radars in the overlapping region within the network. In order to give a valuable estimation of the performance of clutter detection algorithms no clutter filters are applied beforehand.

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