Nat. Hazards Earth Syst. Sci. Discuss.,
https://doi.org/10.5194/nhess-2018-314-RC1, 2018
© Author(s) 2018. This work is distributed under
the Creative Commons Attribution 4.0 License.

Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Impact of airborne cloud radar reflectivity data assimilation on kilometre-scale NWP analyses and forecasts of heavy precipitation events" *by* Mary Borderies et al.

Anonymous Referee #1

Received and published: 7 December 2018

The results in this study contribute to our understanding of data assimilation method and the manuscript could be considered for publication following revisions.

Please explain the subscript i in Equation (1).

In the bias correction method, the bias is given by $b =< Z^o - y^{po} >$. However, the innovation is defined as $Z^o - H(x)$ in the cost function J_{po}. The authors need to show the histogram (or mean error) of the bias corrected innovation.

Please explain the notation of r_q^o and r_q^m in Figure 3.

Printer-friendly version

Discussion paper

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., https://doi.org/10.5194/nhess-2018-314, 2018.

Printer-friendly version

Discussion paper

CC BY