

Interactive comment on “Real time data acquisition of commercial microwave link networks for hydrometeorological applications” by C. Chwala et al.

C. Chwala

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Dear Stephan Bühler,

thank you for your recommendation.

While we were writing the manuscript we already discussed the need to show precipitation data along with the microwave link data. We finally decided to leave out any analysis and only show the raw microwave link data, since we wanted to focus on the data acquisition. We thought any analysis, even only qualitative one would require additional explanation in the text and distract from the actual topic.

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However, we seem to have forgotten that the hydrometeorological exploitation of microwave link data is still quite new. Hence we agree with your comment and the comment of reviewer Hidde Leijnse that there should be rainfall information shown together with the microwave link data to make the relevance for AMT clearer.

We will update Figure 3 and Figure 4 and add DWD rain gauge records, similar to the attached figure in this response (Fig. 1). Please note that the gauge record is hourly rainfall depth, hence it is aligned to the right of the hourly intervals, seems to lag behind the microwave link data and is smoothed a lot more. We only show the gauge data in the upper plot, since the lower zoomed in version would only show two data points, of which one would be $R=0$. Please also note that the gauge is located approximately four kilometers away from the microwave link.

We hope that this illustrates the usefulness of microwave link data good enough, since e.g. showing the impact of rainfall on the whole network would go beyond the scope of this paper which should focus on the data acquisition method.

Best regards,

Christian Chwala

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 12243, 2015.

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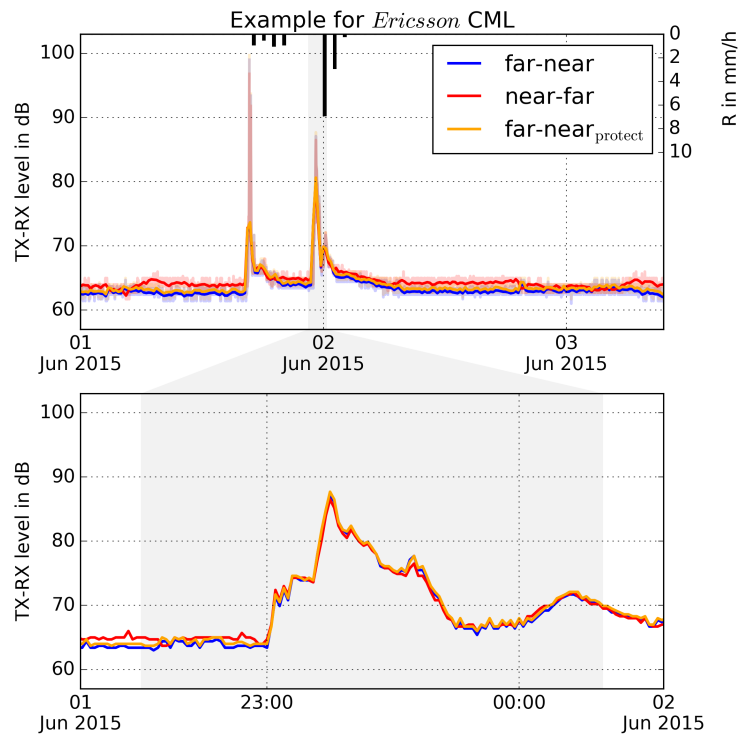


Fig. 1.

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