



## Supplement of

## Exploring the use of underground gravity monitoring to evaluate radar estimates of heavy rainfall

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The following figures show the gravity and radar time series for the 14 convective days as presented in Section 3. Following time series are shown: residual gravity, radar reflectivity, radar rainfall rate and cumulative rainfall, not corrected for hail (red) and corrected with a hail threshold of 48 dBZ (green).

The last figure is a scatter plot showing the rainfall amounts derived from radar and gravimeter measurements for 506 5 precipitation events with max reflectivity exceeding 40 dBZ. It is similar to Fig. 6 but (1) the conversion from reflectivity to rainrate is here based on the RADOLAN ZR relation and (2) a hail correction using a 48-dBZ threshold is applied. The best agreement between radar- and gravimeter-derived rainfall amounts is obtained using these settings.





























