

## Discrimination between downburst and gust-front by the surface dense observation network POTEKA

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On the evening of 11 August 2013, a severe thunderstorm passed over the Takasaki and Maebashi city, Gunma prefecture, and produced gusty wind damages. The change of surface weather elements was recorded by dense observation POTEKA when gust occurred. In this study, we follow the development and propagation of gust-front and downburst through the analysis of features of pressure field observed by POTEKA. The result of this analysis reveals that the reason of gust caused damages in Maebashi city is downburst.