



## **Intense tornadoes in Poland in the years 2000-2012 and their synoptic characteristics**

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Tornadoes, or high speed rotating columns of air, are some of the most extreme natural processes occurring on Earth. Currently the trend towards more frequent and more severe occurrence of tornadoes appear also in Poland. So far, tornadoes in Poland resulted in very serious damage to infrastructure and led to injury or death many of the people.

Forecast of tornados is not a easy task, especially when the phenomenon is local. Must be based on a comprehensive analysis of mesoscale numerical models, atmospheric soundings and radar data. Unfortunately, there are a number of limitations. One of it, is that the mesoscale weather models often do not capture local events, so forecast of the tornados in real time and place can not occur well in advance.

The phenomenon of tornadoes must be better understood and become the object of a comprehensive analysis, so that the resulting information can be used both for research purposes as well as educational.