

Use of satellite data for severe storm nowcasting and monitoring.

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The area of Poland suffers from many severe storms during summer period, with highest activity between May to September. Proper prediction and monitoring of their location, time and intensity is important task - still under investigation.

On the base of selected convective case studies, possibilities and weaknesses of satellite products for severe storm nowcasting and tracing were demonstrated. Selected events were connected with tornado, hail, lightning, heavy rainfall and wind occurrence. Potential improvement of operational storm warning process with the use of dedicated satellite products was discussed.