

# A Synoptic Analysis of Severe Weather Events in South-Western Romania. Case studies: 13 June 2024, 6 and 8 May 2025.

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Severe convective events are often driven by specific synoptic patterns, which influence the initiation, further development, and movement direction of the cloud structures that generate them. The days of June 13, 2024, and May 6 and 8, 2025, brought such phenomena: heavy rainfall over short periods of time, frequent lightning, and in some areas, strong wind gusts and medium to large hail (also wind-driven hail), which caused various material damages in southern Romanian counties (the regions of Banat, Oltenia, and Muntenia).

This study presents the synoptic patterns that favored the development of west-northwest to east-southeast (WNW–ESE) moving mesoscale convective systems, which triggered severe weather events in southern Romania.

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