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Severe events determined by the Mediterranean lows over eastern Romania

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Although Romania is placed at a considerable distance from Mediterranean basin, the cyclones generated in this area, currently affects its territory, particularly the extra-Carpathian area. They discharge here different amount of precipitation, depending on their moving trajectories. A particular kind of trajectory, known in Romanian scientific literature as "trans-Balkan trajectory", can generate heavy rainfalls. In the last couple of years, especially during the summer season, few severe meteorological events, with a high societal impact, have been reported. The heavy rain recorded during July, 2008 and June–July, 2010 have determined increases in levels and flows of eastern Romania rivers and floods. The subsequent flooding has resulted in casualties and significant damages. The present study is focused on the synoptic context analysis of the above mentioned hazardous events, emphasizing both similarities and differences.