



Thunderstorms with anomalous motion in consecutive days over the same trajectory

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Anomalous trajectories of thunderstorms are associated in most of cases with the occurrence of severe weather at surface. We understand an anomalous trajectory of a thunderstorm as the one that does not follow the logical propagation associated with the 700 hPa flow, which may be of different types: split and/or merging of cell clusters, quasi-stationarity, convective train, or independent direction with respect to the rest of simultaneous thunderstorms. Even these type of trajectories are frequent in Catalonia, it is not common the repetition of a same pattern in two consecutive days, as it is the case presented in this analysis, corresponding to the days 8th and 9th of May 2018. The exceptionality of the situation remains in the small area in where the events occurred. It is not usual that an area of less than 1000 km² resulted affected by two severe events in two consecutive days. The work is centred in the presentation of the meteorological characteristics that took place during both days, in order to find those key factors (radar, mesoscale, orographic...) that can explain this unusual situation.