



A study of convective severe storms in Basque Country during XXI century

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In this study a compilation of the most severe and relevant storms that have taken place in the Basque Country in the XXI century is carried out.

Common features are identified, considering different characteristics as synoptic and mesoscale patterns, stability indexes values and observed aspects. This study also aims to find best stability indexes and estimate thresholds in order to improve operational forecast in such situations.

In this context we consider storms that produce very intense showers (over 30mm in one hour) and/or very strong wind gusts (that exceed 90 km/h) and/or relevant hail size that exceeds 2 cm in diameter.