Synoptic characteristics of extreme wind events in the Basque Country.

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When strong wind storms affect the Basque Country, critical situations take place producing large material losses including personal losses.

Wind data from the AWS network of the Basque Country are used to carry out this study. To define extreme wind episodes, wind thresholds are used. These thresholds are chosen taking into account the geographical situation of each station, due to the complex topography of the Basque Country.

Synoptic patterns are associated to wind extreme episodes, by means of a subjective classification. The main characteristics of the events are detailed. Synoptic well-defined patterns produce wind related with deep low pressure systems and undefined configurations produce wind episodes associated to severe storms.