



Radar Signatures of hail during 2013 Convective Severe Storms in the Basque Country.

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One of the challenges of the Directorate of Emergencies and Meteorology (DAEM), Security Department of the Basque Government is to action before, during and after a severe meteorological event occurs. For this purpose some procedures are used, for surveillance, nowcast and forecast in sever convective events different approaches are used mainly based on Basque Meteorology Agency (Euskalmet) capabilities and data collected from available meteorological Radar.

The polarimetric doppler weather radar is the best observation system, available in the area of Basque Country, to follow the evolution of storms. It is located inland, which means that it covers all the convective process from the origin to the end and offers good temporal and spatial resolution.

The goal of the study is to improve the understanding of the mechanism and the identification of radar signatures or radar patterns associated to hail in the Basque Country case. Identifying different Kapildui Radar parameters and products useful for operational identification of hail episodes in order to improve real time response during this severe events.