



## **Hail storm over Vitoria-Gasteiz city: the 2009 july 1st case.**

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In this paper a study of July 1st 2009 event is made analyzing different parameters, based on the available data and specially focusing on mesoscale aspects and the interpretation of the different imagery products of a Dual Doppler radar available in the area.

During the afternoon of July 1st 2009, shower storms, due to the heat accumulation all day long, affect a large part of the Basque Country. The situation is characterized by an undefined synoptic pattern, medium to high degree of thermal instability and a slight north surface flux with large content of water vapor. This environment favours the deep convection, developing convective cells, with large vertical extension, which move slowly eastwards.

During this day intense precipitations are registered at some places in Basque Country. In the city of Vitoria-Gasteiz hail size reaches diameters over 5 cm and generates many incidents and material losses. In the radar imagery it can be see an active convective cell with large vertical extension affecting the city of Vitoria, with reflectivities that surpass the 60 dBz.