



## **Comparative hailpad analysis between Croatia and Greece**

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Croatia and Greece are two countries in southeastern Europe which are often affected by hailstorms, but are also attempting to reduce the corresponding risk by applying hail suppression programs.

There are several similarities, but also differences between the two programs. For instance, hail suppression uses rockets and ground generators in Croatia, while in Greece it uses airplanes. Among the common features is the installation of a hailpad network, in order to study the characteristics of hailstones.

In this study, a comparison is made for hail data collected during the hail seasons 2010-2013. The maximum diameter, the number of hailstones, the hailstone mass and kinetic energy per square meter are calculated using different software, while the kinetic energy distributions are compared on the basis of the Torro scale.

The results show that the corresponding average values for the above parameters are higher in Croatia, while for Greece the corresponding distributions are skewed towards smaller values. It seems also that mountain topography plays a key role to the development of hailstorms and the following hailfall characteristics in both countries.