



## **An Hydrological Description of the 4th November 2011 event in Genoa**

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On the 4th November 2011 a flash flood event hit the area of Genoa with dramatic consequences. Such an event represents, from the meteorological and hydrological prospective, a paradigm of flash floods in the Mediterranean environment. The performances of an early warning system in use at the Ligurian Hydrometeorological Centre are presented and discussed together with its ex-post evaluation. The evaluation was conducted by using official and unofficial rain gauge networks in order to understand the added value of a denser observation network in case of localized convective rainfall, which is a recurrent feature in these types of events.

The huge number of crowd sourcing information (videos and photos) available in near real time during the event were used to monitor, from a different angle, the flood ground effects. In the post event they were used to quantitatively estimate flood magnitude in ungauged sites for hydrological modeling validation.