



## **Experiences with tools to improve the visualization of the current weather for presenters**

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The internet and application of new information and communication technology (ICT Information and Communication Technologies) to provide, integrate and apply weather data from different sources, have brought about a revolution for both weather forecasting and analysis and diagnosis of past episodes, in addition to providing a new channel to reach the population or general public. In particular, they offer the possibility of integrating real-time data provided by different meteorological networks, whether official or provided by fans, and therefore have a greater spatial and temporal coverage. This possibility is particularly useful to provide weather information in the media, especially television and radio. However, this integration involves addressing numerous issues ranging from the quality of information to different formats and criteria for georeferencing. This project focuses on the preparation of a methodology to integrate and represent weather data from different networks, automatically and in real time. The study has focused on Catalonia, and has worked with the following networks: Meteorological Service of Catalonia, the Meteorological Agency, Meteopirineu and Meteoclimatic post. Once developed the methodology was also applied to the case study of the floods in Vall d'Aran on June 18, as well as the analysis of the monthly rainfall in Catalonia in 2013-2014, the analysis of the heat island of Barcelona, and the analysis of the monthly temperature and precipitation of several weather stations.