



Nowcasting warning tools in the Meteorological Service of Catalonia

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Sometimes storms are developed more than it is expected and they can become heavy storms. For this reason, there are some meteorological tools that make easier to decide if it is necessary to send an early warning to the Emergency Center. One of these tools is an email-alarm sent from the automatic weather stations. It happens when the accumulated precipitation is over than 3mm/1 min, 10mm/10 min and 30 mm/20 min. On the other hand, there is a tool (EHIMI system) that estimates the accumulated precipitation in 30 minutes using the radar images. It is very useful, especially when the heavy rain falls over an area where there aren't automatic weather stations. One of the most powerful tools is called XOM, something like a Meteorological Vigilant Net. It is formed by meteorological observers, who send information about the consequences of the meteorological situation. Last but not least, it has recently been implemented the lightning jump vigilance system that allows nowcasting severe weather.