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Precipitation analysis in the framework of flash flood events

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The analysis of all the precipitation structures associated to flash flood events in Catalonia, since 1996 has been done. A composed radar data from three C band radar data, with a 6 minutal temporal and 2x2 km spatial resolutions, provided by the Catalan National Meteorological Service (METEOCAT), has been used for the most recent events, meanwhile the historical information from the AEMET radar placed in Barcelona has also been used. These data have been compared with rainfall data in surface each 5-minutes using the SAIH and XEMA networks from the Generalitat of Catalonia. The different kind of structures, distinguishing between the convective and stratiform part, different Z-R calibrations as well as the cycle of life of the cells, have been considered and modelled. Results are being applied in the framework of the FLASH project.