



Seasonal and synoptical pattern investigation of intense widespread rains in the Canary Islands.

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Due to their social interest and climatic-research relevance, intense and widespread precipitation is acknowledged to be phenomena worth analysing.

Our study concerns the occurrence of these events in the Canary Islands region, a large 110000 km² area to the NW of the African coast. Data from 300 rain gauge stations have been considered to outline the seasonal and yearly time series tendency. We also perform correlation of these events with typical synoptical patterns in the area.

This type of precipitation is defined as widespread and intense. By this we mean a daily amount over a given threshold and, at the same time, a minimum amount of nearby station must report the episode. We have chosen islands of similar hydrological regimes and orography in order to keep data unbiased.

Time span ranges differently, being well into the valid tendency-change scale for larger islands. The conclusion of this work (part of on going research on precipitation in the Canaries) indicates a further new agreement with last IPCC climatic change report.