

EVOLUTION OF EXTREME CLIMATE INDICES IN THE ALGIERS BASIN

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Abstract

Extreme climate events often have serious impacts on society, water resources, health and agriculture. Indeed, the small change in the mean state can cause a large variation in the probability of an extreme case. In this study, we performed the RClimDex software (1.0) to calculate climate indices of six stations in the watershed of Algiers, during the period of 1979-2012. The results show that the length of the growing season experienced a significant decrease in the eastern Algiers stations of between 12 and 77.4%, and a significant increase in these sequences of consecutive days with more than 17%. However, the trend in the total annual precipitation is decreasing in the region.

Keywords: Extreme, RClimDex, index, trend.