

Submitted Abstract

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Abstract

This project studies adaptation to climate change focusing on heat waves during the 21st century, from 2030 to 2070. Adaptation measures relate to urban development, such as revegetation of the city and increasing its albedo, and are developed with the Urban Planning Agency of the Grenoble Region. Particular attention is paid to the impact on air quality, as the increase in roof albedo, for example, could increase ozone production. The objective is to determine the measures on urban planning and pollutant emissions, in order to combat the increase of temperatures due to climate change, while preserving air quality in the metropolis.