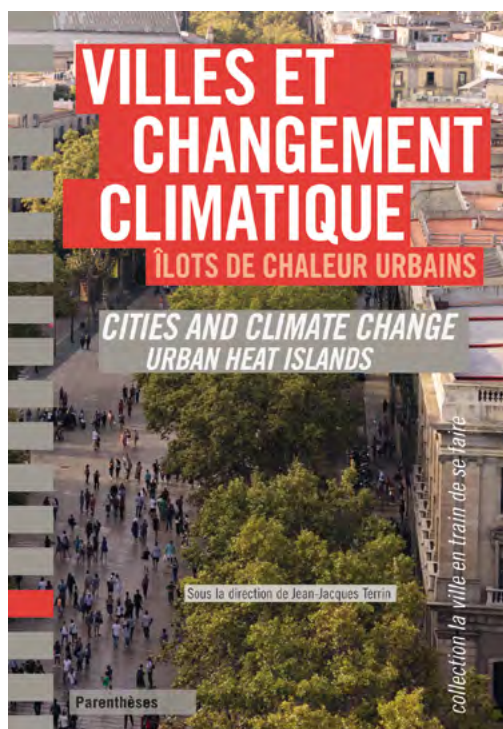




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Contact presse : Jasmine Badr  
jasmine@editionsparentheses.com



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# Cities and climate change

## Urban Heat Islands

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Global warming and weather disturbances will increase significantly before the end of the 21st century. Cities are also affected by these changes in the climate, which lead to the formation of urban heat islands. This phenomenon is characterised by higher temperatures in the centre of cities (sometimes significantly higher) than on the urban periphery, generating discomfort and urban malfunctions. This phenomenon is due to the accumulation of several factors: urban density, motorised traffic, excessive soil sealing and a lack of vegetation and water in public spaces. Large cities are trying to remedy this problem. In this edition of Popsu, researchers, experts and local authorities from the cities of Barcelona, Lyon, Marseilles, Montreal, Nantes, Rennes, Rome, Stuttgart, Toulouse and Vienna, examine the impact that architectural and urban forms, landscaping devices, and the choice of building materials and technologies can have on reducing the negative effects of urban heat islands.

*Texts : Jean-Jacques Terrin, Yves Bidet, Katia Chancibault, Armelle Ecolan, Andrea Filpa, Xavier Foissard, Franck Geiling, Julia Hidalgo, Thomas Houet, Pierre Jutras, Christelle Leproust, Alban Mallet, Jean-Baptiste Marie, Javier Martin Vide, Philippe Mary, Marc Montlleo, Luca Montuori, Marjorie Musy, Simone Ombuen, Anne Pere, Luce Ponsar, Jürgen Preiss, Ulrich Reuter, Joëlle Roy Lefrançois, Serge Salat, Itzel Sanroma.*

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