# Heat islands - understanding and mitigating heat in urban areas

## Earthscan - Heat islands : understanding and mitigating heat in urban areas (Book, 2008) [tech.radiozamaneh.com]

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**Mitigating urban heat islands: A method to identify potential wind corridor for cooling and ventilation**

This occurs at a naturally occurring rate called the adiabatic lapse rate. The book also includes effective methodologies for using trees and vegetation for cooling, such as green roofs. Special equipment, called a heat capacity mapping radiometer, measured surface temperatures in the Buffalo, New York, area.

**Heat Islands: Understanding and Mitigating Heat in Urban Areas by Lisa Gartland**

The Explorer Mission 1 program of 1978 was one of the first in which satellite data were used to observe urban heat. Rural areas tend to be composed of materials of lower thermal diffusivity, while urban areas have higher diffusivities. For example, cooling degree—days were calculated for 26 locations around Minneapolis—St Paul Todhunter, 1996.

**Heat Islands**

This increase has been concurrent with metropolitan area growth, so the anthropogenic heat gain for cities, which is now spread over larger areas, will be somewhat less than 25 per cent. From 1980 to 2000, US energy consumption increased by 25 per cent. This method also gives further understanding into the origins of the heat island.

**Heat Islands**

Temperatures along roadways can be unduly influenced by engine or pavement heat, or by wind from traffic. It is also ideal if these sites have the same altitude, terrain and general climate, but this is not always possible.

**Mitigating urban heat islands: A method to identify potential wind corridor for cooling and ventilation**

On a November morning, the heat island structure was more complex, but there was a distinct plateau over central Tokyo with an intensity of 5°C 9°F. Atmospheric Environment 33: 4157—4162 Todhunter, P. Temperature traverses across the width of Granada are shown in Figure 1.

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