

Using remote sensing images to monitor Urban Heat Island Effect

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It is as a leading character of city climate that urban heat island effect (UHIE) is becoming a major direction of city environment. Remote sensing data is taken great advantages to monitor UHIE for they are periodic, credible, accurate prior to others. In the thesis, remote sensing images, got with difference period and difference sensors, are used to monitor the territory and development of heat island of Guangzhou City. What's more, comparing with fieldwork and weather observation data, the paper sets out interesting application potential of remote sensing for urban thermal environment.

Key words: remote sensing image, heat island effect, environment monitor