

"... without peer in its field. Written by four of the most eminent scientists in urban climate, this excellent book is destined to become a classic and a fundamental reference for students, teachers and researchers alike."

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"... a very important book ...

clearly written, richly illustrated, and with broad-ranging examples and well-documented sources of data, this is a book that should be read by researchers, students and practitioners interested in the urban environment, urban planning and design, and smart cities. This book will be a classic reference that will stand up to being read many times."

Sue Grimmond, Department of Meteorology, University of Reading

"... indispensable for anyone interested in the subject, from students to researchers, and most importantly, planners."

Robert Bornstein, Department of Meteorology & Climate Science, San Jose State University

"A signature textbook ... The content, quality and scope of *Urban Climates* are just what you would expect from some of the most respected urban climatologists in the world. I look forward to using it for my Applied Climatology in the Urban Environment class."

Marshall Shepherd, University of Georgia and former President of the American Meteorological Society

Cities affect climate at both local and global scales. Cities are typically warmer, more prone to flooding, and have poorer air quality than their rural surroundings. They are also particularly exposed to the potential hazards of future global climate change, such as increasing temperatures, increases in the severity and frequency of extreme events, and sea-level rise. For most people on the planet, an urban climate is the norm.

Urban Climates is the first full synthesis of modern scientific and applied research on urban climates. The book begins with an outline of what constitutes an urban ecosystem. It develops a comprehensive terminology for the subject using scale and surface classification as key constructs. It explains the physical principles governing the creation of distinct urban climates, such as airflow around buildings, the heat island, precipitation modification, and air pollution, and then illustrates how this knowledge can be applied to moderate the undesirable consequences of urban development and help create more sustainable and resilient cities.

With urban climate science now a full-fledged field, this timely book fulfills the need to bring together the disparate parts of climate research on cities into a coherent framework. It is an ideal resource for students and researchers in fields such as climatology, urban hydrology, air quality, environmental engineering, and urban design. It is illustrated with color figures throughout.



Online Resources
www.cambridge.org/oke



PowerPoint slides and JPEGs
of all figures from the book

Cover illustration: The downtown core of Vancouver and the Lions Gate Bridge rise above a morning fog in this view from Cypress Mountain in West Vancouver, British Columbia November 17, 2008. REUTERS/Andy Clark (CANADA).

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