

# Contents

## **Part I Introduction**

Frank Schwartz, Antje Katzschner, and Michael Schmidt

**Introduction to Ho Chi Minh City** . . . . . 5

Antje Katzschner, Frank Schwartz, Bao Thanh, and Michael Schmidt

**Climate Change Adaptation Governance in the Ho Chi Minh City Region** . . . . . 19

Andreas Gravert and Thorsten Wiechmann

## **Part II Urban Environment**

Harry Storch and Nigel K. Downes

**Urban Environment: An Overview of Results** . . . . . 41

Harry Storch and Nigel K. Downes

**Adaptation: Integrative Planning Framework for Adapted Land-Use Planning** . . . . . 51

Harry Storch, Nigel K. Downes, Michael Schmidt, Thi Cam Van Nguyen, Le Canh Dinh, and Bao Thanh

**Administrative Requirements for the Integration of Environmental Concerns and Demands of Climate Change into the Planning Process** . . . 75

Manfred Goedecke and Jörn Welsch

**Understanding Ho Chi Minh City's Urban Structures for Urban Land-Use Monitoring and Risk-Adapted Land-Use Planning** . . . 89

Nigel K. Downes, Harry Storch, Michael Schmidt, Thi Cam Van Nguyen, Le Canh Dinh, Thong Nhat Tran, and Le Thanh Hoa

**Urban Climate** . . . . . 117

Lutz Katzschner, René Burghardt, Sebastian Kupski, and Sabrina Campe

**Urban Water Management: Spatial Assessment of the Urban Water Balance** . . . . . 133  
Hendrik Rujner and Manfred Goedecke

**Remote Sensing and Spatial Analysis for Flood Monitoring and Management in Ho Chi Minh City** . . . . . 151  
Xuan Thinh Nguyen, Jakob Kopec, and Maik Netzband

**Urban Transport in Ho Chi Minh City, Vietnam** . . . . . 175  
Guenter Emberger

**Part III Urban Development**

**From Research to Design: From Design to Action** . . . . . 195  
Frank Schwartze and Dirk Schwede

**Climate Responsive Neighbourhoods for HCMC: Compact City vs. Urban Landscape** . . . . . 207  
Ronald Eckert and Le Hai Chau Huynh

**Promoting Climate Adapted Housing and Energy Efficient Buildings in Vietnam: Chances and Challenges** . . . . . 239  
Dirk Schwede, Michael Waibel, Christoph Hesse, and To Thi Nhien Ngo

**People-Centred Innovative Bottom-Up Approaches** . . . . . 259  
Ulrike Schinkel



<http://www.springer.com/978-3-319-04614-3>

Sustainable Ho Chi Minh City: Climate Policies for  
Emerging Mega Cities

Katzschner, A.; Waibel, M.; Schwede, D.; Katzschner, L.;  
Schmidt, M.; Storch, H. (Eds.)

2016, XXI, 269 p. 116 illus., 88 illus. in color., Hardcover

ISBN: 978-3-319-04614-3