
Contents

Part I Challenges for Urban Climate Change Adaptation

- 1 Introduction 3**
Kerstin Krellenberg and Bernd Hansjürgens

Part II Climate Change Impacts on the Urban-Regional Level of Santiago de Chile

- 2 Downscaling Climate Changes for Santiago: What Effects
can be Expected? 19**
James McPhee, Gonzalo Cortés, Maisa Rojas, Lilian Garcia,
Aniella Descalzi, and Luis Vargas
- 3 Scenarios for Future Development 43**
Jürgen Kopfmüller

Part III Climate Change Impacts on the Urban-Regional Level of Santiago de Chile: Key Sectors and Vulnerabilities

- 4 Climate Change Impacts on the Water Sector 59**
Helmut Lehn, Laura Margarete Simon, and Melanie Oertel
- 5 Climate Change Impacts on the Energy Sector and Adaptation
Options 81**
Volker Stelzer and Adriana Quintero
- 6 The Impacts of Climate and Land-Use Change on Flood
and Heat Hazards 107**
Annemarie Müller and René Höfer
- 7 Understanding Hazard Exposure for Adaptation in a Climate
Change Context 127**
Juliane Welz, Anke Schwarz, and Kerstin Krellenberg
- 8 Synthesis: Climate Change Impacts from a Cross-Sectoral
Perspective: Consequences for Political Response 149**
Kerstin Krellenberg

Part IV Adaptation Strategy: Developing Measures and Implementation

- 9 Developing Climate Change Adaptation Measures
in a Participatory Process: Roundtable Meetings 157**
Jonathan Barton, Jordan Harris, and Kerstin Krellenberg
- 10 From Planning to Implementation: Capacities and Competences . . . 175**
Kerstin Krellenberg, Katrin Barth, and Natàlia García Soler
- 11 Going Beyond Santiago: A Regional Learning Network
for Climate Change Adaptation in Latin American Megacities . . . 189**
Ricardo Jordan, Kerstin Krellenberg, and Johannes Rehner
- 12 Developing a Regional Climate Change Adaptation Plan:
Learning from Santiago de Chile 207**
Kerstin Krellenberg, Katrin Barth, and Bernd Hansjürgens

Climate Adaptation Santiago

Krellenberg, K.; Hansjürgens, B. (Eds.)

2014, XVI, 216 p. 27 illus., 3 illus. in color.,

ISBN: 978-3-642-39103-3