
Contents

Foreword	9
Acknowledgements	13
Introduction	
<i>Robin Fears, Montira Pongsiri, Peter F. McGrath</i>	17
Bangladesh	
Community engagement to reduce dengue transmission in Dhaka	
<i>Uzzal Kumar Roy, Atikur Rahman and Nur-A-Safrina Rahman</i>	27
Bangladesh	
Aquifer storage and recovery technology for irrigation water supply	
<i>Sara Nowreen</i>	35
Benin	
Lessons from the formulation of a National Adaptation Plan	
<i>Hashim Hounkpatin</i>	47

Brazil

**Climate, air pollution and socioeconomic vulnerability:
a research platform to implement policies
to improve environmental health**

Paulo Hilário Nascimento Saldiva 55

Ethiopia

**Mapping the urban overheating hazard
and its driving factors in Addis Ababa**

Seyoum Melese Eshetie 65

Ghana

**Co-production methodologies to deliver
city-level flood resilience and reduce health
inequalities in sub-Saharan Africa**

Ben C. Howard and Cynthia A. Awuni 77

India

**The health benefits of response actions
to air pollution and extreme heat in Ahmedabad**

Vijay S. Limaye 87

Malaysia

**A technology-based approach to predicting
fire risk in tropical peatland and developing
a transboundary haze alert system**

Aduwati Sali 97

Malaysia

**The Urban Heat Island phenomenon
and its impacts on vulnerable groups**

Mohd Norzikri Kamaruddin 107

South Africa**Using machine learning to map bioclimatic zones
and crop yields in water-scarce conditions**

*H. Mugiyo, V.G.P. Chimonyo, R. Kunz, M. Sibanda,
L. Nhamo, C. Ramakgahlele Masemola, Tsitsi Bangira,
A.T. Modi and T. Mabhaudhi*

117

South Africa**Addressing heat-health threats among women,
infants and children in primary healthcare settings**

Caradee Y. Wright

127

Thailand**The link between mental health and ecosystem health
in Indigenous farming communities**

Victoria Pratt

137

Lao, Pakistan, Somalia, Sri Lanka**Systems thinking to estimate the health
co-benefits of climate action**

Andrea M. Bassi, Georg Pallaske, Marco Guzzetti and Nathalia Nino

147

Sub-Saharan Africa**Food security and resilience using
a small-scale funding model**

*Claudia Canales Holzeis, Robert Koebner, Sonia Morgan
and Edwin Mellor Southern*

157