## Contents

### Part I Implementing Climate Change Adaptation in Rural Areas and Communities

1. **Implementing Climate Change Adaptation Interventions in Remote Outer Islands of the Pacific Island Region**  
   Gillian Cambers, Pasha Carruthers, Titilia Rabuatoka, Sanivalati Tubuna and Juliana Ungaro  
   3

2. **Customary Land and Climate Change Induced Relocation—A Case Study of Vunidogoloa Village, Vanua Levu, Fiji**  
   Dhrishna Charan, Manpreet Kaur and Priyatma Singh  
   19

3. **Climate Change and Migration in the Maldives: Some Lessons for Policy Makers**  
   Johannes Luetz  
   35

### Part II Climate Change Adaptation, Resilience and Hazards

4. **Climate Change and Extreme Weather Events: The Mental Health Impact**  
   David N. Sattler  
   73

5. **Preparing for Better Livelihoods, Health and Well-Being—A Key to Climate Change Adaptation**  
   Peni Hausia Havea, Sarah L. Hemstock and Helene Jacot Des Combes  
   87

6. **Climate-Friendly Adaptation Strategies for the Displaced Atoll Population in Yap**  
   Muruokesan V. Krishnapillai  
   101
7 Integrating Disaster Risk Reduction and Climate Change Adaptation in Vanuatu: The Art and Practice of Building Resilience to Hazards ........................................ 119
Astrid Vachette

8 Response of Marginopora vertebralis (Foraminifera) from Laucala Bay, Fiji, to Changing Ocean pH ............... 137
Roselyn Naidu, Pamela Hallock, Jonathan Erez and Matakite Maata

9 The Role and Capacity of Government in a Climate Crisis: Cyclone Pam in Vanuatu ........................................ 151
Johanna Nalau, J. Handmer and Malcolm Dalesa

10 Response and Adaptation to Climate Change in the South China Sea and Coral Sea ....................................... 163
Rongshuo Cai, Haixia Guo, Di Fu, Xiuhua Yan and Hongjian Tan

11 Drought Modelling Based on Artificial Intelligence and Neural Network Algorithms: A Case Study in Queensland, Australia .... 177
Kavina Dayal, Ravinesh Deo and Armando A. Apan

12 Adapting Climate Change Projections to Pacific Maritime Supply Chains ............................................. 199
Jack Dyer

13 Climate Change Adaptation in Pacific Countries: Fostering Resilience Through Gender Equality ....................... 225
Cecilia Aipira, Allanah Kidd and Kate Morioka

14 Urban Resilience to Climate-Related Disasters: Emerging Lessons from Resilience Policy and Practice in Coastal Tourism Cities ......................................................... 241
Elnaz Torabi, Aysin Dedekorkut-Howes and Michael Howes

15 Coastal Erosion Monitoring on Ouvea Island (New Caledonia): Involving the Local Community in Climate Change Adaptation .... 255
M. Le Duff, P. Dumas, O. Cohen and M. Allenbach

Part III Information, Communication, Education and Training on Climate Change

16 Towards a Mega-Pacific Islands Education Curriculum for Climate Adaptation Blending Traditional Knowledge in Modern Curriculum ............................................. 271
Mohamed Walid

18 Behind the Lens: First-Hand Images and Videos Collected by Communities That Document the Impact of Climate Change in Milne Bay, PNG ................................. 303 David K. Mitchell and George R. Aigoma


20 Piecing Together the Adaptation Puzzle for Small Island States ................................. 325 Tabea K. Lissner, Carl-Friedrich Schleussner, Olivia Serdeczny, Florent Baarsch, Michiel Schaefler and Bill Hare

21 Using Modelling Outputs to Inform Coastal Climate Change Adaptation Studies: Practical Tips for Adaptation Planners and Scientists ................................. 339 Gregory Wilford Fisk, Philip Edward Haines and Beth Frances Toki

22 Lifelong Learning (LLL) for Energy Practitioners in Small Island Developing States (SIDS): The Pivotal Role of Education in Energy Efficiency and Demand Side Management ................................. 353 Pravesh Raghoo, Pratima Jeetah and Dinesh Surroop

Part IV Trends on Climate Change Adaptation

23 Beekeeping as Pro-forest Income Diversification in Solomon Islands ................................. 371 Wilko Bosma, Stephen Suti and Payton Deeks

24 Coupling Disaster and Financial Management to Reduce Vulnerability: Challenging the Traditional Samoan Mindset, Experiences from the Community ................................. 389 Su’a Julia Wallwork

25 Coastal Climate Adaptation at the Local Level: A Policy Analysis of the Gold Coast ................................. 401 Aysin Dedekorkut-Howes and Jordan Vickers
26 Coastal Environments Under a Changing Climate—What If Resilience Building Is Not Enough? ........................ 417
Gregory Wilford Fisk, Philip Edward Haines and Beth Frances Toki

27 Climate Change Adaptation in the Pacific: Setting-Up Priorities in the Health Sector .............................. 433
Walter Leal Filho

Erratum to: Dynamic Adaptive Management Pathways for Drinking Water Security in Kiribati ............................ E1
Pierre Mukheibir, Louise Boronyak-Vasco and Pelenise Alofa
Climate Change Adaptation in Pacific Countries
Fostering Resilience and Improving the Quality of Life
Leal Filho, W. (Ed.)
2017, X, 441 p. 108 illus., 77 illus. in color., Hardcover
ISBN: 978-3-319-50093-5