Contents

1 Introduction 1
Mart A. Stewart and Peter A. Coclanis

Part I Environmental Change in the Mekong Delta – Actions and Agencies

2 Think Global, Act Global in the Mekong Delta? Environmental Change, Civil Society, and NGOs 7
Boris Fabres

3 Fixing the Delta: History and the Politics of Hydraulic Infrastructure Development and Conservation in the Mekong Delta 35
David Biggs

4 Outline of the Process of Red River Hydraulics Development During the Nguyễn Dynasty (Nineteenth Century) 45
Olivier Tessier

5 "A Kind of Mylai … Against the Indochinese Countryside": American Scientists, Herbicides, and South Vietnamese Mangrove Forests 69
Amy M. Hay

6 The Politics and Culture of Climate Change: US Actors and Global Implications 83
Charles Waugh

Part II Social and Economic Dynamics

7 Precarious Paddies: The Uncertain, Unstable, and Insecure Lives of Rice Farmers in the Mekong Delta 103
Peter A. Coclanis and Mart A. Stewart

8 Analysis of Labour Migration Flows in the Mekong Delta of Vietnam 115
Huynh Truong Huy and Le Nguyen Doan Khoi

9 Dynamic Resilience of Peri-Urban Agriculturalists in the Mekong Delta Under Pressures of Socio-Economic Transformation and Climate Change 141
Matthias Garschagen, Fabrice G. Renaud, and Jörn Birkmann

10 Efficiency Analysis of Selected Farming Patterns: The Case of Irrigated Systems in the Mekong Delta of Vietnam 165
Quan Minh Nhut

11 Living with Floods: An Evaluation of the Resettlement Program of the Mekong Delta of Vietnam 181
Vo Thanh Danh and Shahbaz Mushtaq

Part III Consequences of Environmental Change

12 Climate Change in the Mekong River Delta and Key Concerns on Future Climate Threats 207
Le Anh Tuan and Suppakorn Chinvanno

13 Climate Change Adaptation and Agrichemicals in the Mekong Delta, Vietnam 219
Zita Sebesvari, Thi Thu Huong Le, and Fabrice G. Renaud

14 Role of Villagers in Building Community Resilience Through Disaster Risk Management: A Case Study of a Flood-Prone Village on the Banks of the Mekong River in Cambodia 241
Serey Sok, Louis Lebel, Ram C. Bastakoti, Sokkalyan Thau, and Sela Samath

Part IV Human Responses to Environmental Change

15 Community-Based Fish Culture: A Viable Coping Strategy for Farmers in the Mekong Delta? 259
Olivier M. Joffre, N. Sheriff, H.H. Ngai, and N.V. Hao

16 From Rice to Shrimp: Ecological Change and Human Adaptation in the Mekong Delta of Vietnam 271
Ngo Thi Phuong Lan

17 Relationship Quality in Fish Value Chains: Buyer–Supplier Management in the Pangasius Industry, Vietnam 287
Le Nguyen Doan Khoi and Nguyen Phu Son

18 The Relationship Between Natural Conditions and the Formation and Development of Clam Grounds (*Meretrix lyrata*) in the Mekong Delta 303
Tong Phuoc Hoang Son and Nguyen Thanh Tung

19 Compost Potential from Solid Waste: Toward Sustainable Agriculture and Mitigation of Global Warming in the Mekong Delta, Vietnam 335
Nguyen Phuc Thanh and Yasuhiro Matsui

20 Biogas Production of Pig Manure with Water Hyacinth Juice from Batch Anaerobic Digestion 355
Nguyen Vo Chau Ngan, Le Hoang Viet, Nguyen Dac Cu, and Nguyen Huu Phong

21 Community-Scale Wind-Powered Desalination for Selected Coastal Mekong Provinces in Vietnam 371
Ha T. Nguyen and Joshua M. Pearce

22 Promotion of Organic Cocoa in Mixed Farming System in the Mekong Delta Region: A Preliminary Analysis..... 399
Vo Van Phong, Daniel Valenghi, and Nguyen Lam Giang

23 The Transition from Conventional to Organic Rice Production in Northeastern Thailand: Prospect and Challenges..... 411
Natedao Taotawin

24 The Impact of Weather Variability on Rice and Aquaculture Production in the Mekong Delta..... 437
Dang Kieu Nhan, Nguyen Hieu Trung, and Nguyen Van Sanh

Index..... 453

http://www.springer.com/978-94-007-0933-1

Environmental Change and Agricultural Sustainability in the Mekong Delta

Stewart, M.A.; Coclanis, P.A. (Eds.)

2011, XVI, 456 p., Hardcover
ISBN: 978-94-007-0933-1