

# Environmental Sustainability and Climate Change Adaptation Strategies

Part of the Advances in Environmental Engineering and Green Technologies Book Series

Wayne Ganpat (The University of the West Indies, Trinidad and Tobago) and Wendy-Ann Isaac (The University of the West Indies, Trinidad and Tobago)

## Description:

The existence of the human race has created inevitable effects on our surrounding environment. To prevent further harm to the world's ecosystems, it becomes imperative to assess mankind's impact on and create sustainability initiatives to maintain the world's ecosystems.

**Environmental Sustainability and Climate Change Adaptation Strategies** is a pivotal reference source for the latest scholarly material on the scientific, technical, and socio-economic factors related to climate change assessment. Provides a comprehensive overview of perspectives on sustainability protection of environmental resources.

## Readers:

This book is ideally designed for policy makers, professionals, government officials, upper-level students, and academics interested in emerging research on climate change.

ISBN: 9781522516071

Release Date: December, 2016

Copyright: 2017

Pages: 347

## Topics Covered:

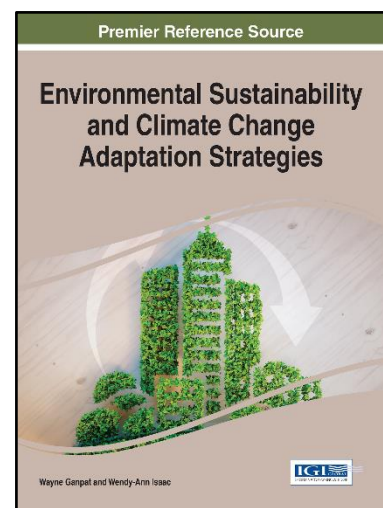
- Agriculture
- Carbon Footprint
- Disaster Risk Management
- Eco-Municipalities
- Sustainable Land Use
- Water Quality
- Watershed Management

Hardcover +  
Free E-Book:

**\$200.00**

E-Book Only:

**\$200.00**



## Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: [www.igi-global.com](http://www.igi-global.com)



## Table of Contents

### Chapter 1

*Mainstreaming Development Policies for Climate Change in Fiji: a Policy Gap Analysis and the Role of ICTs*

Sam Goundar

Victoria University of Wellington, New Zealand

Subhash Appana, University of the South Pacific, Fiji;

### Chapter 2

*Indian national strategy for climate change adaptation and mitigation*

Brig (Dr) B.K. Khanna, National Disaster Management

Authority, Government of India

### Chapter 3

*Strategies for Mitigating Climate Change Impact on the Vulnerable Lakshadweep Coral Islands, India*

Brig (Dr) B.K. Khanna, National Disaster Management

Authority, Government of India

### Chapter 4

*Climate Change Adaptation and Disaster Risk Management in the Caribbean*

Gaius Eudoxie

The University of the West Indies, St. Augustine, Trinidad

Ronald Roopnarine

The University of the West Indies, St. Augustine, Trinidad

### Chapter 5

*Zero tillage for mitigating global warming consequences and improving livelihoods in South-Asia*

Rajan Bhatt

Punjab Agricultural University, Ludhiana, Punjab, India

### Chapter 6

*Climate Change: Vulnerability and Resilience in the Commercial Shrimp Aquaculture in Bangladesh*

Shaikh Mohammed Kais

Assistant Professor of Sociology, University of Rajshahi &

Nanyang Technological University (NTU)

### Chapter 7

*Mini livestock ranching: solution to reducing the carbon footprint and negative environmental impacts of agriculture*

Dimple Singh-Ackbarali

The University of Trinidad and Tobago, Trinidad & Tobago.

Rohanie Maharaj

The University of Trinidad & Tobago

### Chapter 8

*The Role of Eco-Municipalities in Climate Change for a Sustainable Future*

Seda H. Bostanci

Namık Kemal University

Ayşe Nur Albayrak

Gebze Technical University, Turkey

### Chapter 9

*Impact of Climate Change on a Key Agricultural Pest: Thrips*

Tamika A. Garrick

Valencia College, United States of America

Oscar E. Liburd

University of Florida, United States of America

### Chapter 10

*Sustainable Land Use and Watershed Management in Response to Climate Change Impacts: Case study in Srepok Watershed, Central Highland of Vietnam*

Nguyen Kim Loi,

Nguyen Thi Huyen

Le Hoang Tu

Vo Ngoc Quynh Tram

Nguyen Duy Liem

Nguyen Le Tan Dat

Tran Thong Nhat

### Chapter 11

*The Impact of Climate Change on Small Ruminant Performance in Caribbean Communities*

Cicero H. O. Lallo

The University of the West Indies, Trinidad and Tobago

Sebrena Smalling

The University of the West Indies, Trinidad and Tobago

Audley Facey

Ministry of Agriculture and Fisheries, Jamaica

Martin Hughes

The University of the West Indies

### Chapter 12

*Climate Change Impacts on Surface Water Quality*

Never Mujere

University of Zimbabwe, ZW

William Moyce

University of Zimbabwe, ZW

### Chapter 13

*Modelling the frequency of tropical cyclones in the lower Caribbean*

Reynold J. Stone

The University of the West Indies, St. Augustine, Trinidad and

Tobago