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Released: September 2014

## Impacts of Climate Change on Food Security in Small Island Developing States

Research Essentials



### Impacts of Climate Change on Food Security in Small Island Developing States

Wayne G. Ganpat and Wendy-Ann P. Isaac



Part of the Research Essentials Collection

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

With the potential to impact weather patterns, agriculture, and habitability of certain regions, global warming is a topic of interest to environmentalists, scientists, as well as farmers around the world. The threat of food shortages and famine especially becomes a major concern as a result of recent climate shifts.

**Impacts of Climate Change on Food Security in Small Island Developing States** discusses the repercussions of a shifting climate on food production and availability in small island nations. Comprised of research-based chapters on topics relevant to crop management, sustainable development, and livestock management on island territories, this advanced reference work is appropriate for environmental researchers, food scientists, academicians, and upper-level students seeking the latest information on agricultural concerns amidst a changing climate.

#### Topics Covered:

- Availability of Food
- Coastal and Inland Fisheries
- Invasive Species Management
- Natural Disasters
- Protected Agriculture Systems
- Soil Management
- Water Management

ISBN: 9781466665019; © 2015; 469 pp.

Print: US \$215.00 | Perpetual: US \$325.00 | Print + Perpetual: US \$430.00

**Market:** This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

**Wayne Ganpat** (PhD Agricultural Extension) is a Caribbean extension professional. Presently, he is a Lecturer in Agricultural Extension and Communications at the University of the West Indies (UWI), St Augustine, Trinidad and Tobago and teaches courses at both the undergraduate and graduate levels. Prior to joining the UWI, he worked as an Extension Officer in the government extension service for over 20 years and left as the Deputy Director of Extension Services. He has worked as a consultant for governments in most Caribbean countries over the last 20 years doing work both in Extension and Communications.



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## Section 1: Overview

### Chapter 1

*An Overview of Climate Change and Impacts on Food Security in Small Island Developing States*

T. Grady Roberts (The University of Florida, USA)  
Mary T. Rodriguez (The University of Florida, USA)

## Section 2: Country or Regional Chapters

### Chapter 2

*The Caribbean's Response to Climate Change Impacts*

Steve Maximay (Science-Based Initiatives, Trinidad and Tobago)

### Chapter 3

*The Impacts of Climate Change on Food Security and Management in Papua New Guinea*

Akkinapally Ramakrishna (National Agricultural Research Institute (NARI), Papua New Guinea)  
Sergie Bang (National Agricultural Research Institute (NARI), Papua New Guinea)

### Chapter 4

*Adaptation to Impacts of Climate Change on the Food and Nutrition Security Status of a Small Island Developing State*

Antoine Moustache (Ministry of Natural Resources, Republic of Seychelles)

### Chapter 5

*Adaptations to Climate Change and Climate Variability in the Agriculture Sector in Mauritius*

Prakash N. K. Deenapanray (Ecological Living in Action Ltd. (ELIA), Mauritius)  
Indoomatee Ramma (Food and Agricultural Research Council, Mauritius)

### Chapter 6

*Farming Adaptations to the Impacts of Climate Change and Extreme Events in Pacific Island Countries*

Viliamu Iese (The University of the South Pacific, Fiji)  
Joseph Maeke (The University of the South Pacific, Fiji)  
Elisabeth Holland (The University of the South Pacific, Fiji)  
Morgan Wairiu (The University of the South Pacific, Fiji)  
Sumeet Naidu (The University of the South Pacific, Fiji)

## Section 3: Thematic Areas

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*Protected Agriculture*

Janet Lawrence (Caribbean Agricultural Research and Development Institute (CARDI), Trinidad and Tobago & The University of the West Indies, Trinidad and Tobago)  
Leslie Simpson (Caribbean Agricultural Research and Development Institute (CARDI), Jamaica)  
Adanna Piggott (Caribbean Agricultural Research and Development Institute (CARDI), Trinidad and Tobago)

### Chapter 8

*Postharvest Management Strategies*

Rohanie Maharaj (The University of Trinidad and Tobago, Trinidad and Tobago)  
Dimple Singh-Ackbarali (The University of Trinidad and Tobago, Trinidad and Tobago)  
Clement. K. Sankat (The University of the West Indies, Trinidad and Tobago)

### Chapter 9

*Soil, Water, and Agricultural Adaptations*

Gaius D. Eudoxie (The University of the West Indies, Trinidad and Tobago)  
Mark Wuddivira (The University of the West Indies, Trinidad and Tobago)

### Chapter 10

*Marine Plants as a Sustainable Source of Agri-Fertilizers for Small Island Developing States (SIDS)*

Antoine De Ramon N'Yeurt (The University of the South Pacific, Fiji)  
Viliamu Iese (The University of the South Pacific, Fiji)

### Chapter 11

*Sustainable Management of Invasive Species for Small Island Developing States under Changing Climates*

Jane E. Cohen (The University of the West Indies, Jamaica)  
Dionne Clarke-Harris (Caribbean Agricultural Research and Development Institute, Jamaica)  
Ayub Khan (The University of the West Indies, St. Augustine, Trinidad and Tobago)  
Wendy-Ann P. Isaac (The University of the West Indies, St. Augustine, Trinidad and Tobago)

### Chapter 12

*Education, Extension, and Training for Climate Change*

Isaac Bekele (The University of the West Indies, Trinidad and Tobago)  
Wayne Ganpat (The University of the West Indies, Trinidad and Tobago)

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