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Nota di contenuto	Preface -- Foreword -- Acknowledgements -- Chapter 1. How climate change reshuffles the cards for agriculture -- PART 1 – COPING WITH CLIMATE CHANGE -- Chapter 2. Hazards, Vulnerability and Risk -- Chapter 3. Rice adaptation strategies in response to heat stress at flowering -- Chapter 4. Adaptation to salinity -- Chapter 5. Enhanced drought adaptation in African savanna crops -- Chapter 6. Tropical crop pests and diseases in a climate change setting – a few examples -- Chapter 7. Healthy tropical plants to mitigate the impact of climate change – as exemplified in coffee -- Chapter 8. Climate change and vector-borne zoonotic diseases -- Chapter 9. Relationships between tropical annual cropping systems and climate change -- PART 2 - SEEKING NOVEL PRACTICES -- Chapter 10. Livestock farming constraints in developing countries – from adaptation to mitigation in ruminant production systems -- Chapter 11. Climate-smart farms? Case studies in Burkina Faso and Colombia -- Chapter 12. Joint management of water resources in response to climate change

disruptions -- Chapter 13. Agricultural organic waste recycling to reduce greenhouse gas emissions -- Chapter 14. Will tropical rainforests survive climate change? -- Chapter 15. Adaptation and mitigation in tropical tree plantations -- Chapter 16. Coffee and cocoa production in agroforestry – a climate-smart agriculture model -- PART 3 - STIMULATING CHANGE -- Chapter 17. Impact of climate change on food consumption and nutrition -- Chapter 18. The One Health concept to dovetail health and climate change policies -- Chapter 19. Impact of climate change on ecosystem services -- Chapter 20. Life cycle assessment to understand agriculture-climate change linkages -- Chapter 21. Payment for environmental services in climate change policies -- Chapter 22. Tackling the climate change challenge: What roles for certification and ecolabels? -- Chapter 23. Climate policy assessment on global and national scales -- PART 4 - LOOKING AHEAD -- Chapter 24. What about climate-smart agriculture? -- Chapter 25. Climate-smart agriculture and international climate change negotiation forums -- Chapter 26. New research perspectives to address climate challenges facing agriculture worldwide -- Boxes -- List of Authors -- Research Unit Acronyms.

Sommario/riassunto

In recent years, especially with the approach of the 21st Session of the Conference of the Parties to the United Nations Framework Convention on Climate Change in Paris in late 2015, the number of publications, conferences and meetings on climate change has been growing exponentially. Yet uncertainties remain concerning rural tropical areas where models are forecasting the onset of multiple disorders and trends are unclear. Meanwhile, the impact of climate change on the poorest communities is regularly documented, often prompting alarmist reactions. How can food security be achieved while adapting to and mitigating climate change? What are the main threats to agriculture in developing countries? How do farmers in these countries cope with the threats? What does agricultural research propose? What options have yet to be investigated? A broad scope of scientific research is underway to address these challenges. Diverse solutions are available, including new agricultural practices, water management, agricultural waste recycling, diagnosis of emerging diseases, payment for ecosystem services, etc. Gaining insight into the financial and political mechanisms that underlie international climate negotiations is also essential to design practical ways to deal with climate issues and meet sustainable development requirements in collaboration with farmers. This book pools the wealth of experience of dozens of researchers and development officers from a range of disciplines. We have focused on making it detailed, accurate and hopefully easy to read for researchers, students and all other informed readers.
