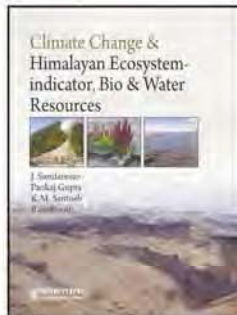


Climate Change and Himalayan Informatics

J. Sundaresan, et al.

Geodynamic process during the rapid growth of Himalaya has holistic imprints of Climate Change in this region. "Climate Change and Himalayan Informatics" is an account of dedicated contribution for the above imprints. Impact of climate change is examined in this book for the ongoing process of rapid urbanization of the hinterlands of Himalaya. It consists four sessions and seventeen chapters. Mass balance of glaciers in Chandra basin of Himalaya is presented as a predictive tool for spatially distributed estimates of mass balance of glaciers. An effective tool to identify and locate multiple natural hazards due to climate change in Himalaya especially landslides and glacial lake outburst flood (GLOF) is part of the book. Impacts of climate change on cropping strategies by mountain communities are ascribed in the session "socio-economic perspectives". Information on ecologically and economically important plant species in Himalaya that have greater tolerance in drought, discussed in this book, is significant in the perspectives of global warming. A specific species is identified as an indicator of climate change for Eastern Himalaya. Climatic impacts on different regional eco systems of Himalaya had implications on ecological, cultural and socio economic process of the region. Multidimensional decision support system is essential for mitigation and adaptation for such implications. Present book consists studies from north to eastern part of Himalaya. This will be beneficial to researchers, student, managers and administrators associated with Mountain ecosystem and Climate Change.

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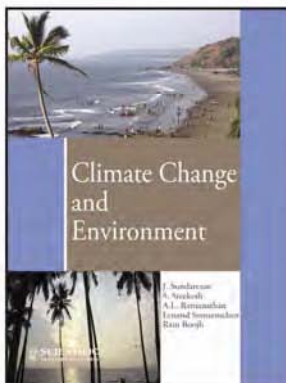


Climate Change & Himalayan Ecosystem-indicator, Bio & Water Resources

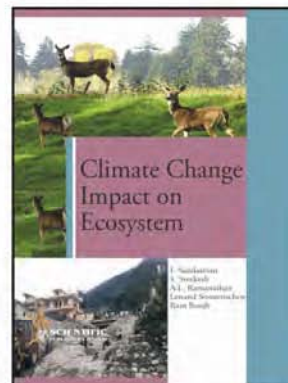
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Data/Information is the essential requirement for planning and development. "Climate Change and Himalayan ecosystem-indicators, bio and water resources" consists basic information and data on glaciers, climate change indicators & projections, water resources and biodiversity hot spots of Mount Himalaya. Studies on "Climate change and the recession pattern of the Glaciers in the Himalaya" of this book concludes that "Possibility of the rivers in the Himalayas drying up as a consequence of rapid degeneration of the glaciers is not borne out by the past history". In this book, study conducted in watershed of Central Himalaya, a Decision Support System (DSS) is introduced as interactive tool that understands the problem and explores various courses about water demand and supply management to help decision makers. Himalayan foreland basin derivatives hold records of climatic changes in response to monsoonal circulation. In this study detritus records (11 to 5 Ma) of Ramganga Sub-Basin of HFB are focused to understand the climate aspect during its deposition. Himalayan biodiversity conservation is discussed in detail in this book. It infers that in Himalaya with the current technological capability, it is very certain that the present species extinction rate will overtake the biodiversity inventorization and characterization. **Carbon sequestration potential of the forests of Himalaya is analyzed in this book.** Book has a detailed account of the altitudinal shiftiness of butterflies due to increase of air temperature at West Kameng district of Arunachal Pradesh. Changes in NDVI (Normalized Difference Vegetation Index) over a period of several years, is examined in this study to assess the changes caused by climate or socioeconomic aspects. This book will be very valuable as a hand book for researchers, students, environmentalist and to administrators who are associated with multi dimensional decision support system in Mountain ecosystem.

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