

Garhwal Himalaya A Study In Historical Perspective

The present volume is a significant attempt towards the mystifying phenomena of Himalayan ecology & Environmental resources. Himalayan ecology is, however, struggling to create its niche as a sub-discipline and as the erosion syndrome over the Himalaya gathers storm, this theme will increasingly catch the attention of the decision makers. Made up of complex eco-systems, the Himalayan ecosphere has eluded the grasp of scientists bound with a mono-disciplinary approach. It covers diverse aspects of the subject through 3 Parts: Ecology, Environmental resources and Case studies. The watersheds in the Himalayan eco-system are being widely devastated. The sound of dynamic explosions, earth moving machinery, axes and power saws, are disturbing the ecological balance. In the hilly terrains the poorly managed human activities are causing accelerated erosion. The main object of the present volume, is create environmental consciousness among the people. An honest effort has, therefore, been made to touch all the vital issues of Central Himalayan ecology and Environmental resources. The book will prove useful equally to students, scientists and social engaged in regional development of Himalayan region. Contents Part I: Ecology; Chapter 1: Ground Water Provinces of U P Himalaya by S P Nautiyal and Arun K Sandilya; Chapter 2: Structure and Diversity of a Montane Forest in a Part of Bhagirathi Valley, Garhwal Himalaya by G S Rajwar; Chapter 3: Geo-ecology and Forest Development of U P Himalaya by D D Maithani; Chapter 4: Geomorphological Investigations in the North-East of Srinagar, Garhwal Himalaya by A K Sandilya and R S Negi; Chapter 5: Some Geomorphological Observations in and Around Bhatware Area, District Uttarkashi, Garhwal Himalaya by N P Naithani and G S Rawat; Part II: Environmental Resource; Chapter 6: Resource Inventory and Economic-development with Special Reference to Recreation Resource of Garhwal Himalaya by R D Gaur and D D Maithani; Chapter 7: The Mineral Resources of Western U P Himalaya: Some Corrective Measures against their Depletion by U S Rawat; Chapter 8: The Crumbling Himalaya (Environmental Degradation and Some Conservational Measures) by M S Anantharaman; Part III: Case Studies; Chapter 9: The Proposed Functioning of the U P Hill Development Corporation by S P Nautiyal; Chapter 10: Rural Settlement and House Types of Jakholi Block, Garhwal Himalaya by M S Negi and B P Naithani; Chapter 11: Agricultural Development in a Hill Region: An Appraisal by K N Joshi; Chapter 12: Rural Landuse Pattern of Central Garhwal Himalaya: A Case Study of South-East Tehri District by D D Maithani and R K Verma.

In the Central Himalayan region of Garhwal, the gods (devtas) enjoy dancing. Musicians - whether ritual specialists or musical specialists - are therefore an indispensable part of most entertainment and religious events. In shamanistic ceremonies, their incantations, songs and drumming 'make' the gods possess their mediums. In other contexts, such as dramatic theatrical renditions of stories of specific deities, actors 'dance' the role of their character having become possessed by the spirit of their character. Through the powerful sounds of their drumming, musicians cause the gods to dance. Music, and more particularly musical sound, is perceived in Garhwal as a powerful force. Andrew Alter examines music and musical practice in Garhwal from

an analytical perspective that explores the nexus between musical sounds and performance events. He provides insight into performance practice, vocal techniques, notions of repertoire classification, instruments, ensembles, performance venues, and dance practice. However, music is not viewed simply as a system of organized sounds such as drum strokes, pitch iterations or repertoire items. Rather, in Garhwal, the music is viewed as a system of knowledge and as a system of beliefs in which meaning and spirituality become articulated through potent sound iterations. Alter makes a significant contribution to the discipline of ethnomusicology through a detailed documentation of musical practice in the context of ritual events. The book offers a traditionally thorough historical-ethnographic study of a region with the aim of integrating the local field-based case studies of musical practices within the broader Garhwali context. The work contains invaluable oral data, which has been carefully transliterated as well as translated. Alter blends a carefully detailed analysis of drumming in conjunction with the complex ritual and social contexts of this sophisticated and semantically rich musical practice.

Providing a wealth of in-depth knowledge of forest ecosystems, this new volume explores a collection of important topics on forest community dynamics. It looks at the diversity of forest ecosystems and explores such aspects as forest products in enhancing local livelihoods and community participation, forage production, forest conservation and sustainable management, regeneration patterns, seed handling, and more. Chapters in Diversity and Dynamics in Forest Ecosystems present new research on forest products, livelihood generation mechanisms of forest-dependent communities, utilization patterns of untapped resources from forests, and the structure of different ecosystems from the tropical to the temperate landscape. This book also features different drivers of community dynamics, such as the role of seed handling in forests, the influence of altitudinal variations, and protected and community-conserved forests on the forest diversity. Chapters also consider the role of non-timber forest products and their significance in livelihood diversification for tribal communities and forage crop genetic resources, and forest resource extraction by forest fringe dwellers. Also explored are aspects of soil organic carbon in agroforestry systems and integrated approaches of sustainable agroforestry development in diverse forest ecosystems. This edition also examines the vegetation structure and regeneration aspects of timberline zone, including diversity of herbaceous flora along the altitudinal gradient. The abundance of in-depth knowledge of the diversity and dynamics of forest ecosystems in this volume will be valuable in conservation and management of forests, which play an important role in the world environment. Forests are presently facing multiple disturbances, and this volume will help forestry professionals and others formulate further strategies to mitigate global climate change and other challenges.

Garhwal Himalayas: A Study in Historical Perspective

A Study of Rural Society in Garhwal Himalaya

Rock Mechanics

Sedimentary Geology of the Himalaya

Ethnobotany of India, Volume 4

Landslide Monitoring in Space and Time Using Optical Satellite Imagery and DEM

Derived Parameters

Reconstruction of the political and administrative history of Garhwal

during the period 1358 to 1947.

This volume presents the proceedings of a symposium on rock mechanics, held in the USA in 1995. Topics covered include: rock dynamics; tool-rock interaction; radioactive waste disposal; underground mining; fragmentation and blasting; theoretical and model studies; hydrology; and rock creep.

Ethnobotany of India: Volume 4: Western and Central Himalayas is the 4th volume of the 5-volume set, an informative book series on the ethnobotanical aspects of India. The books cover different regions, including Volume 1: Eastern Ghats and Deccan Volume 2: Western Ghats and West Coast of Peninsular India Volume 3: North-East India and Andaman and Nicobar Islands Volume 4: Western and Central Himalayas Volume 5: The Indo-Gangetic Region Each volume looks at the important ethnic plants of the specific region. Volume 4 covers the Western and Central Himalayas, the well-known mountain range on the Indian subcontinent. The unique flora and fauna of the Himalayas are varied, affected by climate, rainfall, altitude, and soils, and are vulnerable to impacts from climate change. The editors espouse that because indigenous non-Western societies form the vast majority of people now as well as in the past, a study of their plant interrelationships is necessary, and India is one of the most important regions of the old world for its ancient and culturally rich and diverse knowledge of ethnobotany. With this in mind, these volumes share a great deal of information that will be valuable to plant botanists and others working in and interested in ethnobotany. This important volume covers the ethnobotanical aspects of many plants of the region. It looks at ethnic diversity of people ethnic food plants and food preparation ethnomedical aspects of plants psychedelic plants and their possible link to soma, a vedic ritual drink whose plant origins are a mystery ethnoveterinary medicinal plants ethno-conservation practices biodiversity heritage sites The volume includes the details of the plants used, their scientific names, the parts used, and how the plants are used, providing the what, how, and why of plant usage. The book is well illustrated with 20 color and 67 b/w illustrations. Together, the five volumes in the Ethnobotany of India series presents the available ethnobotanical knowledge of India in one place. India's ancient and culturally rich and diverse information and use of ethnobotany will be valuable to those in the fields of botany and plant sciences, pharmacognosy and pharmacology, nutraceuticals, and others. The books also consider the threat to plant biodiversity imposed by environmental degradation, which impacts cultural diversity.

A Geographical Study

A Study Based on Excavations at Thapli and Ranihat

Knowledge Systems of Societies for Adaptation and Mitigation of Impacts of Climate Change

A Geographical Interpretation of Garhwal

Crustal Architecture and Evolution of the Himalaya-Karakoram-Tibet Orogen

Socio-economic Studies for Land Use Planning and Eco-development in Garhwal Himalaya

Geodynamic process during the rapid growth of Himalayas

holistic imprints of Climate Change in this region. "Climate Change & 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 Chandrabasin 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. All decision making requires information. This study provides an array of information on floristic inventory, composition, diversity, regeneration, population structure of the dominant tree species, growing stock, tree biomass, physico-chemical properties of soils and soil-vegetation interrelationship in different forest types of the moist temperate Mandal-Chopta forest in the Garhwal region of Uttarakhand, India. Taking this biodiversity rich forest as a case study, the author has made an attempt to understand the forest dynamics of the region. This study also provides the quantitative comparisons between the results of the present study with the earlier reported values from the different parts of the Uttarakhand Himalaya. The scientific information provided in this book can be used to develop adequate strategy and action plan by the forest managers

and scientists. Data is useful for predicting suitable sites for plantation silviculture of some important dominant trees of the region. Baseline data collected in the study can also be used for evaluating and monitoring the structural changes in the vegetation due to environmental or climatic changes in the future.

This Study On The Economy Of A Watershed In Tehri District Attempts To Analyse Human-Land Resources With Regard To Their Potential Productivity - Provides A Small Sound Base For Understanding The Human Aspects And Understanding Large Scale Developmental Programme For Watershed Management. In The Himalayan Catchment. 6 Chapters - Reference - 2 Annexures - Large Number Of Tables And Figures.

Developing a Low-impact Model for Tourism

Emergence of Early Culture in Garhwal Central Himalaya

History of Agriculture in India, Up to C. 1200 A.D.

Advances in Climate Change and Global Warming Research and Application: 2012 Edition

History of Uttaranchal

Environmental Health in Garhwal Himalaya

A geographical study of the holy land of Garhwal, also incorporate details of land, people, culture and economics issues of the region. This study has covered a wide field of geography, geology, anthropology, economic and sociology of Garhwal.

This volume comprises 17 contributions that address the architecture and geodynamic evolution of the Himalaya-Karakoram-Tibet (HKT) system, covering wide aspects, from the active seismicity of the present day to the remnants of the Proterozoic orogen. The articles investigate the HKT system at different scales, blending field research with laboratory studies. The role of various lithospheric components and their inheritance in the geodynamic and magmatic evolution of the HKT system through time, and their links to global geological events, are studied in the field. The laboratory research focuses on the (sub-)micrometre scale, detailing micro-structural geology, crystal chemistry, geochronology, and the study of circulating fluids, their preservation (trapped in fluid inclusions) and their evolution, distribution, migration and interaction with the solid host. An orogen over 2000 km long can be understood only if the processes at the nanometre and micrometre scales are taken into account. The contributions in this volume successfully combine these scales to enhance our understanding of the HKT system.

Hill resorts in Uttar Pradesh, India.

A Study of the Agrarian Structure and Economy of the Garhwal and Kumaon Himalaya
Journal of Himalayan Studies & Regional Development

Garhwal Himalaya

Proceedings of the 35th US Symposium on Rock Mechanics

Migration and Structural Change

Tourism, Environment, and Development of Garhwal Himalaya

Contributed articles on various aspects of Kumaon, India.

This edited volume dedicated to late Prof. P.S. Saklani addresses the multidisciplinary themes pertaining to role of tectonism and magmatism in Crustal Evolution and global distribution of

metallic and non metallic mineral deposits. It gives valuable information on geodynamic evolution, structural, petrological, isotopic, metamorphic, geochemical and geochronological attributes of continental and oceanic crust and is challenging reassessments of the existing paradigms. It addresses the implication of magmatism, metallogeny and application of geochronological ages (U-Pb SHRIMP age, Lu-Hf isotopic system; detrital zircons). This book also advocates the role of tectonics in contamination of ground water, and control on drainage pattern and geothermal systems. It explores the vulnerability of earth towards natural hazards viz. earthquakes, floods, cyclones, tsunami, volcanism, cyclones and drought. This volume throws light on the applications of remote sensing, GIS (Geographical Information System) and SRTM data for evaluation of the morphometric and morphotectonic parameters and exploring the susceptibility of river basins toward erosion and flood. It will be beneficial to graduate and post-graduate students as well as professionals and researchers.

History of Agriculture in India (up to c.1200 AD), Part 1, reconstructs the evolution of agriculture in India up to c.1200AD. It is a synthesis and summation of existing knowledge on the history of agriculture in ancient India on the combined bases of archaeological and literary sources against the backdrop of Asian history in general. Besides summing up the existing knowledge, it opens new vistas for further research on many debated issues in the history of agriculture in ancient India. The volume addresses the vexed and controversial questions on the origin, antiquity and sources of Indian agricultural history. Based on researches from sites of Vindhya, Ganga Region, plant remains, agricultural tools, pots, dental pathology, and settlement remains, it is an informed and highly researched work on the origin and antiquity of cultivation in India. For a historical study of agriculture, Pali, Sangam, Sanskrit and the Graeco-Roman literatures have been utilized. Art and literary sources have also been used to reconstruct history.

A Geographical Interpretation

Central Himalaya

Ecology and Environment

Journal of Himalayan Studies and Regional Development

Geological and Geo-Environmental Processes on Earth

A Study of Pauri Garhwal

Garhwal Himalayas: A Study in Historical Perspective Indus Publishing

The book contributes to understanding the pattern of strain release and the level of seismic hazard imposed by large-great earthquakes in the frontal fold-thrust belts of Kumaun and Garhwal regions of Uttarakhand. The motivation for active fault studies and their characterization have been emphasized. The book presents the compilation of knowledge garnered in multidisciplinary or proxy studies involved in the understanding of seismic hazard in general and Kumaun-Garhwal Himalaya regions in particular with lucid new maps draped on modern Cartosat or SRTM DEM data. It also discusses satellite image calibration, active faults identifications, and map productions with flowchart. The book discusses window-wise active fault elements with attributes together with the tectonic geomorphic map. It also includes active fault scarp with topographic profile along with field photographs. Finally, it reviews all existing seismotectonic models of the Himalaya, its earthquake hazard, and its vulnerability, specifically for Kumaun and Garhwal regions.

* A delightful collection of introspective essays and a gripping study of this incredible part of the Garhwal Himalaya and life around it* Avid traveler and

photographer Ganesh Sali takes the reader on an idyllic walk through the mountains. This book is a delightful collection of introspective essays on the Garhwal Himalaya and life around it. The author draws from his memories of being brought up in the mountains, pictures that linger like a waft of sweet perfume on a breezy afternoon. With affection, Ganesh Sali writes of his many journeys through these valleys wrapped in the mist, travelogues that evoke details of natural history interwoven into the delicate social fabric of mountain life. The book is a living tribute to the large-hearted sons of the soil, who, down the ages, have yoked the hills together, through thick and thin, good times and bad times, have laughed at the thunder and mocked the skies, have left for the plains only to return, again and again, to the call of the mountains. The Garhwal Himalaya have always been much more than lumps of rock and ice - an enigma, a constant companion for travelers and explorers. Wanderings Through the Garhwal Himalaya is gripping study of this incredible part of the Himalaya which will make you want to be out there in the mountains amid sleet, snow, rain and wind. Contents: Introduction; Himalayan Magic; Glorious Garhwal; Trekking the Garhwals; Not So Quiet Flows the Yamuna; Travels With the Four-Horned Ram; The Man Who Would Be King; The Magic of Dairital; Chandrashila; Baadis: The Flower Children of Garhwal; Travels in the Bhyundar Valley; Haridwar: Along the Ganga.

Biodiversity, Communities and Climate Change
Urbanization in Garhwal Himalaya

Dancing with Devas: Drums, Power and Possession in the Music of Garhwal, North India

Remote Sensing of Northwest Himalayan Ecosystems
Case Study from Garhwal Himalaya, Uttarakhand, India

Himalaya, one of the global biodiversity hotspots, is the abode of a variety of flora and fauna. The Himalayan ecosystems have immense ecological, socioeconomic, and aesthetic significance as they provide a wide range of ecosystem services. The northwest Himalaya (NWH), covering three states of India viz., Uttarakhand, Himachal Pradesh, and Jammu and Kashmir, starts from the foothills of Shivaliks in the south and extends to the greater Himalaya in the north. This region is also the source of some of the major rivers of India. With the increase in population, the NWH ecosystems have been under threat due to deforestation, loss of biodiversity, expansion of agriculture and settlement, overexploitation of natural resources, habitat loss and fragmentation, poaching, mining, construction of roads and large dams, and unplanned tourism. The Himalaya being young and geotectonically active, remains inherently unstable, fragile, and prone to natural disasters. Climate change is also likely to impact the Himalayan cryosphere drastically. Recognizing the importance of the Himalaya, a National Mission for Sustaining the Himalayan Ecosystem, one of the eight missions under the National Action Plan on Climate Change (NAPCC) of Govt. of India, to conserve biodiversity, forest cover and other ecological values in the Himalayan region has been taken up.

Spaceborne remote sensing with its ability to provide synoptic and repetitive coverage has emerged as a powerful tool for assessment and monitoring of the Himalayan resources and phenomena. Indian Institute of Remote Sensing, Dehradun has taken up a number of studies in the fields of geology, water resources, forestry, agriculture, urban settlement, etc., over the last decade. The book summarises the work carried out in different disciplines, illustrated with tables and figures and a host of relevant references. It is hoped that the book serves as an excellent reference of immense value to the students, researchers, professors, scientists, professionals, and decision makers working in the NWH region.

Advances in Climate Change and Global Warming Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Climate Change and Global Warming. The editors have built Advances in Climate Change and Global Warming Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Climate Change and Global Warming in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Climate Change and Global Warming Research and Application / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Biodiversity conservation and sustainable use of natural resources has remained one of the key challenges for development agencies and concerned stakeholders for decades together. The huge threat of climate change has only added to this complexity. In this context, the present book Biodiversity, Community, and Climate Change is designed to help in guiding the various principles of biodiversity conservation, effects of climate change and role of communities at various levels and landscapes. A total of 19 chapters are covered in this book and they encompass a wide range of topics including tools of biodiversity assessment ranging from conventional ecological and social survey methods to the use of latest technology such as Geographical Information System (GIS) and remote sensing.

Agrarian Economy of the Central Himalaya

A Scenario of Unsustainability

Mountain Ecosystems

CLIMATE CHANGE & HIMALAYAN INFORMATICS

Studies on Kumaun Himalaya

Structure and Diversity of Temperate Forest of Garhwal Himalaya, India

The book is designed to highlight the regional personality of the urbanization in this region. Care has been taken to present a balanced view. Development problems of the hill towns of the Garhwal Himalaya have also been discussed. This interdisciplinary book is recommended to every student of geography, urban studies, town and country planning, regional studies, ekistics, urban sociology, demography, tourism and many

other branches of social sciences and humanities.

Climate change is broadly recognized as a key environmental issue affecting social and ecological systems worldwide. At the Cancun summit of the United Nations Framework Convention on Climate Change 's 16th Conference, the parties jointly agreed that the vulnerable groups particularly in developing countries and whose livelihood is based on land use practices are the most common victims as in most cases their activities are shaped by the climate. Therefore, solving the climate dilemma through mitigation processes and scientific research is an ethical concern. Thus combining the knowledge systems of the societies and scientific evidences can greatly assist in the creation of coping mechanisms for sustainable development in a situation of changing climate. International Humboldt Kolleg focusing on " knowledge systems of societies and Climate Change " was organized at ISEC. This event was of unique importance, as the year 2011-12 was celebrated as the 60th Anniversary of Diplomatic Relations between India and Germany with the motto "Germany and India - Infinite Opportunities." This volume is the outcome of the papers presented during the IHK 2011 at ISEC, India.

Contributed articles.

Himalayas, Environmental Problems

Radon And Thoron In The Human Environment - Proceedings Of The 7th Tohwa Univ International Symposium

Western and Central Himalayas

Hill Resorts of U.P. Himalaya,

The Holy Himalaya

Tribal Development