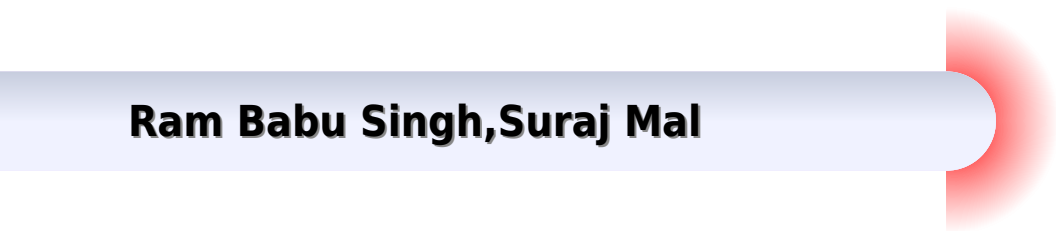


**Understanding
Land-Use and
Land-Cover
Change in Global
and
Regional Context**

Editors
Dana Milanova • Yukio Shimiyama • Jean Etick

Understanding Land Use And Land Cover Change In Global And Regional Context

Ram Babu Singh, Suraj Mal



Understanding Land Use And Land Cover Change In Global And Regional Context:

Understanding Land-Use and Land-cover Change in Global and Regional Context Elena Milanova, Yukio Himiyama, 2005-01-08 Most of the papers of this book were presented in the IGU LUCC 2003 Moscow Workshop on Global and Regional Land Use Cover Changes and at International Conference Society and Environment Interaction Under Global and Regional Changes which was held in Barnaul Altai Russia in summer 2003

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Water Resources Management and Sustainability Pankaj Kumar, Gaurav Kant Nigam, Manish Kumar Sinha, Anju Singh, 2022-02-02 Water is the elixir of life and is crucial for sustainable development Earlier it was considered to be a limitless or at least a fully renewable natural resource During the past 20 years however there has been tremendous pressure on this precious natural resource mainly due to rapid urbanization industrialization and the increase in the human population Together these have resulted in increasing demand for irrigation industrial and household purposes to meet supply chain requirements Keeping in mind the scarcity of available water resources in the near future and its impending threats it has become imperative on the part of scientists in hydrology and allied disciplines such as geography landscape planning sustainability science etc Regional planners and supply chain management experts also must be involved in studying the spatial and temporal nature of the growing demand for water and the future availability for its judicial use and sustainable management A primary intent of the book is to provide comprehensive scientific knowledge base on water resource management and sustainability It covers geo engineering and scientific problems case studies and sustainable solutions in the water resources management domain Additionally and of equal importance the chapters of the book provide in depth coverage on water resource vulnerability water quality wastewater treatment application of remote sensing and geographical information systems hydrological modeling and harvesting climate variability and runoff sediment discharge and irrigation planning community participation in water governance internet of things and machine learning applications for sustainable water resources management This practical state of the art reference book is a valuable resource for students researchers scientists policymakers spatio temporal designers of water resource systems various stake holders interested in hydro climatology and sustainable water resources management

Human Geoscience Yukio Himiyama, Kenji Satake, Taikan Oki, 2019-09-21 This book is a product of the joint efforts of interdisciplinary academic fields under the integrative framework of human geoscience Human geoscience is a new genre of geoscience concerned with the natural phenomena that occur on the surface of the Earth and their relations with human activities It therefore has connections with many fields of geoscience namely physical geography geomorphology geology soil science sedimentology seismology volcanology meteorology

climatology oceanography and hydrology It also has strong links to the humanities social sciences agricultural sciences and engineering related to disaster prevention or mitigation All these disciplines are important fields for understanding disasters and global environmental problems and for evaluating the associated risks comprehensively then proposing mitigation strategies The volume is designed for those who may not necessarily have a geoscience background but have broad scientific interest in understanding the causes mechanisms and consequences of geo disasters and global environmental problems and wish to make the world more sustainable on that basis The book consists of six parts I Introduction II Earth Surface Realms III Natural Resources and Society IV Natural Hazards and Society V Global Environmental Problems and VI Global Sustainability Programmes and Human Geoscience which discusses the contribution of this field of science to a new comprehensive framework for global sustainability

Land-Use and Land-Cover Change Eric F. Lambin, Helmut J. Geist, 2008-01-08 This book presents recent estimates on the rate of change of major land classes Aggregated globally multiple impacts of local land changes are shown to significantly affect central aspects of Earth System functioning The book offers innovative developments and applications in the fields of modeling and scenario construction Conclusions are also drawn about the most pressing implications for the design of appropriate intervention policies Strategic Plan for the U.S. Climate Change Science Program Climate Change Science Program (U.S.), 2003

Biomass Burning and Global Change: Remote sensing, modeling and inventory development, and biomass burning in Africa Joel S. Levine, 1996 Global Biomass Burning provides a convenient and current reference on such topics as the remote sensing of biomass burning from space the geographical distribution of burning the combustion products of burning in tropical temperate and boreal ecosystems burning as a global source of atmospheric gases and particulates the impact of biomass burning gases and particulates on global climate and the role of biomass burning on biodiversity and past global extinctions Pub desc

Land-Use and Land-Cover Change (LUCC) Land Use and Cover Change (Project), 1999 *Biogeography and Biodiversity* Ram Babu Singh, 2009 This present volume focuses on biogeographic dimensions biodiversity conservation and sustainable use of its components in socio economic development A holistic perspective of biodiversity conservation includes biogeography monitoring and indicators climate change tourism and invasive and alien species Special attention has been given on mountain coastal and marine biodiversity as well as ecodevelopment in protected areas local knowledge technology transfer education and public awareness Biogeography and Biodiversity contains 26 chapters relating to conceptual and empirical case studies from developed and developing countries The book also combines science and policy perspectives to biogeography and biodiversity It will be of interest to students researchers and teachers in geography environmental studies biosciences ecology and policy science

Land-use and Land-cover Change, 1995 Land Use and Land Cover Change LUCC is significant to a range of themes and issues central to the study of global environmental change This report contains the LUCC science research plan which has the general goal to improve the basic understanding of the dynamics of LUCC

globally **Proceedings of Asian Symposium on Global Environmental Change** International Geosphere-Biosphere Program "Global Changes.",1992 **The Earth Observer** ,2007 **The Impacts of Urbanization-induced Land Use and Land Cover Change on Land Surface Temperature and Thermal Comfort. The Case of Dire Dawa, Ethiopia** Ermias Belete,2024-01-05 Master s Thesis from the year 2023 in the subject Urban and Regional Planning grade Very Good course Geo Informatics Engineering language English abstract This study was focused on assessing an Implications of Urbanization Induced Land Use Land Cover Changes on Land Surface Temperature and Thermal Comfort in Dire Dawa City between 2000 and 2022 The City is experiencing rapid urbanization and limitation of green area aesthetical values that has resulted in remarkable surface temperature Despite this until now no evaluations have been duly executed pertaining to the thermal or ecological factors in Dire Dawa The study utilized Landsat 5 TM Landsat 9 OLI TIRS and MODIS 11A2 images which were obtained from USGS for the study area To analyze and show results clearly ArcGIS 10.8 ERDAS IMAGINE 2014 and Excel 2013 softwares were used The LULC pattern was processed by supervised classification with the maximum likelihood classification algorithm and four major land use land cover Built up area Barren land Shrub land and sparse vegetation were identified The biggest urban problem facing cities around the world today is the result of land use change induced by urbanization Rapid urbanization driven by demographic and economic growth places additional demands on natural resources leading to changes in land use particularly in megacities Due to urbanization and unplanned human activities the vegetation of the earth s surface is in constant decline leading to changes in the environment especially in the earth s ecosystem at local regional and global scales Future increases in climate change and urbanization will exacerbate urban heat islands especially during heatwaves Similar to any other cities across the world different urban areas in Ethiopia are affected by climate change Dire Dawa city has experienced massive urbanization in terms of population growth fastest rates of urbanization with a 50 percent growth rate and major changes in the LULC has been a drastic increase in areal extent and coverage Additionally observed surface improvements such as urban growth settlement expansion and Construction of new built up or dwelling units in the city socioeconomic factors particularly in the context of anthropogenic activities have modified and will continue to modify the case study s microclimate Despite variations among kebeles Dire Dawa has population density of 350 people per square kilometer and a growth rate of 4.42 % As a result such increasing changes are responsible for increasing surface temperatures can cause and pose a threat to the city s microclimate

Environmental Change and Biodiversity Ram Babu Singh,Suraj Mal,2009 Unprecedented loss and changes in biodiversity are taking place at the genetic species and ecosystem levels in both terrestrial and marine groups of organisms One of the major concerns of biodiversity loss is the reduction in the capacity of natural and managed ecosystems to render quality ecological services such as production of food and fibre carbon storage nutrient cycling and resistance to climate and other environmental changes The extraction of biomass resources such as fuel wood fodder timber etc which was once within the

carrying capacity of forests has now crossed this limit in most of the resource rich areas Presently habitat conversion and destruction are eliminating species at such a rapid pace that extinction of contemporary species is leading to imbalance of ecosystem The problem of biodiversity loss needs to be minimized in order to keep the ecosystem functional Therefore assessing the causes and consequences of biodiversity loss and environmental changes and establishing the bases for the conservation and sustainable use of biodiversity are major scientific challenges of our time It is against this backdrop the present study was carried out with multidisciplinary approach to answer the following questions What are the spatial patterns of environmental change and biodiversity loss and their driving forces across the world in general and the Himalayan state of Uttarakhand in particular What are the linkages between land use cover change landslides and biodiversity loss To what extent community participation can help for conservation of biodiversity The book will contribute to India's efforts in fulfilling the goals of the International Year of Planet Earth IYPE Kyoto Protocol and UN Framework Convention on Climate Change UNFCCC It will be useful for geographers environmentalists life scientists mountain experts and policy makers

Land Use and Climate Change Suresh Chand Rai, 2009 During recent past large scale conversions of forests to other land uses in developed and developing countries in response to high population growth has been observed As a consequence this has disrupted the hydrological cycle and a great change in climate is envisaged The land use change from forest to the other usage has been quite conspicuous in the last few decades in the Indian Himalayan region Land use cover change is emerging as a central issue within the community concerned with global environment This concern is driven by the contributions that land use cover transformations make a wide variety of changes The recent interest in land use change has generated effort to understand the inter relationship between land use cover and climate change Most of the global environmental problems fall within the gambit of land use cover change and require a thorough understanding of its causes and consequences Understanding of land use cover and climate change is important for the sustainable development and to evolve strategies for the mitigation of climate change at local regional and global levels This work is basically designed to familiarise the graduate post graduate and research students with the basic knowledge of land use cover and its impact on climate

Global Change, 1996 The British National Bibliography Arthur James Wells, 2005 **Proceedings of the ... International Symposium on Remote Sensing of Environment**, 2009 **Relating Land Use and Global Land-cover Change** Billie Lee Turner, 1993 **Proceedings of the ... International Symposium on Remote Sensing and Global Environmental Change**, 1993

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