

## Advances In Earth Observation Of Global Change

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Global Change studies are increasingly being considered a vital source of information to understand the Earth Environment, in particular in the framework of human-induced climate change and land use transformation. Satellite Earth Observing systems provide a unique tool to monitor those changes. While the range of applications and innovative techniques is constantly increasing, this book provides a summary of key case studies where satellite data offer critical information to understand the causes and effects of those environmental changes, minimizing their negative impacts. This book will be of interest to researchers and practitioners in the field of remote sensing, geographical information, meteorology and environmental sciences. Also scientists and graduate up to post-graduate level students in environmental science will find valuable information in this book.

This book presents cutting-edge remote sensing research, outlining the advanced use of European Space Agency (ESA) satellite data in the context of climate change. The ESA, through its Support to Science Element (STSE) Programme, funds a network of young post-doc scientists pursuing 2-year cutting-edge research projects in the field of remote sensing. This (Changing Earth Science Network) focuses on the exploitation of Earth Observation (EO) data to address major issues concerning the broader context of climate change in five scientific research domains: the oceans, atmosphere, cryosphere, land and solid earth.

This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

Earth Observation for Flood Applications: Progress and Perspectives describes the latest scientific advances in Earth Observation. With recent floods around the world becoming ever more devastating, there is a need for better science enabling more effective solutions at a fast pace. This book aims at stretching from the current flood mapping to diverse real data so as to estimate the flood risk and damage. Earth Observation for Flood Applications: Progress and Perspectives includes three parts containing each a separate but complementary topic area under floods. Each chapter unfolds various applications, case studies, and illustrative graphics. In terms of flood mapping and monitoring, the usage of multi-sensor satellite data, web-services information, microwave remote sensing methods are discussed in depth. So, this book is a valuable resource for scientists, researchers, and students in the area of earth observation. Focuses in on one specific application field of Earth Observation Brings the latest scientific advances and perspectives from experts around the world Includes extensive figures, tables, and case studies to illustrate real-life applications

Advances in Earth Science outlines the latest developments and new research directions currently being made world-wide in the earth sciences. It contains invited and refereed articles by leading younger researchers on their cutting-edge research, but aimed at a general scientific audience. This exciting volume explains how powerful methodologies such as satellite remote sensing and supercomputing simulations are now profoundly changing research in the earth sciences; how the earth system is increasingly being viewed in a holistic way, linking the atmosphere, ocean and solid earth; and how the societal impact of the research in the earth sciences has never been more important. Published by Imperial College Press in collaboration with the Royal Society of London, the book features many articles originating from invited papers published in the Philosophical Transactions of the Royal Society. Eleven of the distinguished contributors hold prestigious Royal Society Research Fellowships. Contents:Environmental Change:The Price of Climate Change (D S Reay)Carbon in the Atmosphere and Terrestrial Biosphere in the Early Anthropocene (Y Malhi)Dust in the Earth System: The Biogeochemical Linking of Land, Air, and Sea (A Ridgwell & K E Kohfeld)The Late Permian Mass Extinction Event and Recovery: Biological Catastrophe in a Greenhouse World (R J Twitchett)Dynamics of the Earth:Space-Plasma Imaging | Past, Present and Future (C N Mitchell)Fault, Structure, Stress, Friction and Rupture Dynamics of Earthquakes (E Fukuyama)Some Remarks on the Time Scales of Magmatic Processes Occuring Beneath Island Arc Volcanoes (S P Turner)The Break-Up of Continents and the Generation of Ocean Basins (T A Minshull)Properties and Evolution of the Earth's Core and Geodynamo (F Nimmo & D Alif)Applied Earth Science:Giant Catastrophic Landslides (C R J Kilburn)Remote Monitoring of the Earthquake Cycle Using Satellite Radar Interferometry (T J Wright)Human Influence on the Global Geochemical Cycle of Lead (D J Weiss et al.)Natural and Artificial Platinum and Palladium Occurrences World-Wide (H M Pritchard)Data Assimilation and Objectively Optimised Earth Observation (D J Lary & A Koratkar) Readership: General scientific readers interested in the new research directions in the earth sciences; researchers and students in the earth and environmental sciences. geophysics, environmental chemistry, biology and evolution. Keywords:Climate Change;Environmental Change;Earth Dynamics

To better understand the various processes and interactions that govern the Earth system and to determine whether recent human-induced changes could ultimately de-stabilise its dynamics, both natural system variability and the consequences of human activities have to be observed and quantified. In this context, the European Space Agency (ESA) published in 2006 the document (The Changing Earth: New Scientific Challenges for ESA's Living Planet Programme) as the main driver of ESA's new Earth Observation (EO) science strategy. The document outlines 25 major scientific challenges covering all the different aspects of the Earth system, where EO technology and ESA missions may provide a key contribution. In this framework, and aiming at enhancing the ESA scientific support towards the achievement of (The Challenges), the Agency has launched in 2008 a new initiative | the Changing Earth Science Network | to support young scientists to undertake leading-edge research activities contributing to achieve the 25 scientific challenges of the LPP by maximising the use of ESA data. The initiative is implemented through a number of research projects proposed and led by early-stage scientists at post-doctoral level for a period of two years which are summarized in this SpringerBrief. These projects undertake innovative research activities furthering into the most pressing issues of the Earth system, while exploiting ESA missions data with special attention to the ESA data archives and the new Earth Explorer missions.

Over the past 50 years, thousands of satellites have been sent into space on missions to collect data about the Earth. Today, the ability to forecast weather, climate, and natural hazards depends critically on these satellite-based observations. At the request of the National Aeronautics and Space Administration, the National Research Council convened a committee to examine the scientific accomplishments that have resulted from space-based observations. This book describes how the ability to view the entire globe at once, uniquely available from satellite observations, has revolutionized Earth studies and ushered in a new era of multidisciplinary Earth sciences. In particular, the ability to gather satellite images frequently enough to create "movies" of the changing planet is improving the understanding of Earth's dynamic processes and helping society to manage limited resources and environmental challenges. The book concludes that continued Earth observations from space will be required to address scientific and societal challenges of the future.

"... articles originating from invited papers published in the Philosophical Transactions of the Royal Society, [series A]..."- P. [4] of cover.

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Sustainable management of natural resources is an urgent need, given the changing climatic conditions of Earth systems. The ability to monitor natural resources precisely and accurately is increasingly important. New and advanced remote sensing tools and techniques are continually being developed to monitor and manage natural resources in an effective way. Remote sensing technology uses electromagnetic sensors to record, measure and monitor even small variations in natural resources. The addition of new remote sensing datasets, processing techniques and software makes remote sensing an exact and cost-effective tool and technology for natural resource monitoring and management. Advances in Remote Sensing for Natural Resources Monitoring provides a detailed overview of the potential applications of advanced satellite data in natural resource monitoring. The book determines how environmental and - ecological knowledge and satellite-based information can be effectively combined to address a wide array of current natural resource management needs. Each chapter covers different aspects of remote sensing approach to monitor the natural resources effectively, to provide a platform for decision and policy. This important work: Provides comprehensive coverage of advances and applications of remote sensing in natural resources monitoring Includes new and emerging approaches for resource monitoring with case studies Covers different aspects of forest, water, soil- land resources, and agriculture Provides exemplary illustration of themes such as glaciers, surface runoff, ground water potential and soil moisture content with temporal analysis Covers blue carbon, seawater intrusion, playa wetlands, and wetland inundation with case studies Showcases disaster studies

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