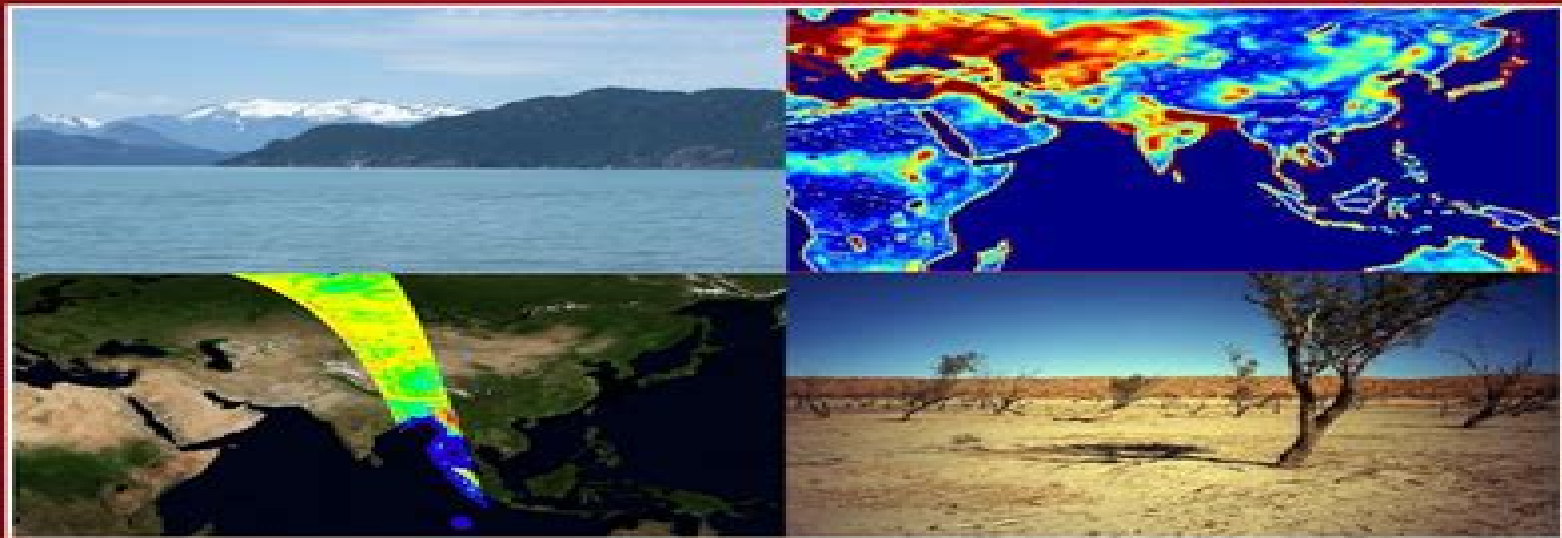


Remote Sensing of the Terrestrial Water Cycle



Venkat Lakshmi

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Remote Sensing Of The Terrestrial Water Cycle

Geophysical Monograph Series

Venkataraman Lakshmi



Remote Sensing Of The Terrestrial Water Cycle Geophysical Monograph Series:

Remote Sensing of the Terrestrial Water Cycle Venkataraman Lakshmi, 2014-10-31 Remote Sensing of the Terrestrial Water Cycle is an outcome of the AGU Chapman Conference held in February 2012 This is a comprehensive volume that examines the use of available remote sensing satellite data as well as data from future missions that can be used to expand our knowledge in quantifying the spatial and temporal variations in the terrestrial water cycle Volume highlights include An in depth discussion of the global water cycle Approaches to various problems in climate weather hydrology and agriculture Applications of satellite remote sensing in measuring precipitation surface water snow soil moisture groundwater modeling and data assimilation A description of the use of satellite data for accurately estimating and monitoring the components of the hydrological cycle Discussion of the measurement of multiple geophysical variables and properties over different landscapes on a temporal and a regional scale

Remote Sensing of the Terrestrial Water Cycle Venkataraman Lakshmi, 2014-12-08 Remote Sensing of the Terrestrial Water Cycle is an outcome of the AGU Chapman Conference held in February 2012 This is a comprehensive volume that examines the use of available remote sensing satellite data as well as data from future missions that can be used to expand our knowledge in quantifying the spatial and temporal variations in the terrestrial water cycle Volume highlights include An in depth discussion of the global water cycle Approaches to various problems in climate weather hydrology and agriculture Applications of satellite remote sensing in measuring precipitation surface water snow soil moisture groundwater modeling and data assimilation A description of the use of satellite data for accurately estimating and monitoring the components of the hydrological cycle Discussion of the measurement of multiple geophysical variables and properties over different landscapes on a temporal and a regional scale Remote Sensing of the Terrestrial Water Cycle is a valuable resource for students and research professionals in the hydrology ecology atmospheric sciences geography and geological sciences communities

[Terrestrial Water Cycle and Climate Change](#) Qihong Tang, Taikan Oki, 2016-09-06 The Terrestrial Water Cycle Natural and Human Induced Changes is a comprehensive volume that investigates the changes in the terrestrial water cycle and the natural and anthropogenic factors that cause these changes This volume brings together recent progress and achievements in large scale hydrological observations and numerical simulations specifically in areas such as in situ measurement network satellite remote sensing and hydrological modeling Our goal is to extend and deepen our understanding of the changes in the terrestrial water cycle and to shed light on the mechanisms of the changes and their consequences in water resources and human well being in the context of global change Volume highlights include Overview of the changes in the terrestrial water cycle Human alterations of the terrestrial water cycle Recent advances in hydrological measurement and observation Integrated modeling of the terrestrial water cycle The Terrestrial Water Cycle Natural and Human Induced Changes will be a valuable resource for students and professionals in the fields of hydrology water resources climate change ecology geophysics and geographic

sciences The book will also be attractive to those who have general interests in the terrestrial water cycle including how and why the cycle changes *Remote Sensing for Characterization of Geohazards and Natural Resources* Estelle

Chaussard,Cathleen Jones,Jingyi Ann Chen,Andrea Donnellan,2024-07-13 This book provides insights from a geoscientist s perspective into the benefits and the potential of remote sensing methods to address problems with a high social impact identifying the drivers of geohazards and developing new methods for monitoring natural resources The fields covered include volcanic hazards seismic hazards landslide hazards land subsidence hazards and monitoring of natural resources through the use and combination of various remote sensing techniques and modelling approaches This book should spark collaborations and encourage readers to think beyond disciplines or techniques as well as enable readers to build their own workflow depending on their study of interest It provides a much needed comprehensive review of recent advances that remote sensing methods have brought to geohazards and resources research It is unique in the way that it unifies geohazards and natural resources research to highlight cross field advancements and potential areas for multiple fields of science to collaborate The book intends to provide both a basic understanding of the remote sensing methods used in geohazards and natural resources sciences with appropriate referencing for readers wishing to further their technique specific learning and a detailed application of these methods to a variety of sustainability problems It aims at providing the reader with workflows for combining multiple techniques with demonstrated results in a variety of disciplines This approach makes the book useful for both students learning about geohazards and resources learning about remote sensing methods and for researchers intending to expand their skill set using methods that have been applied to other fields This book provides an introduction to each remote sensing method with references for in depth technical learning which will benefit students in Remote Sensing courses **Assimilation of Remote Sensing Data into Earth System Models**

Jean-Christophe Calvet,Patricia De Rosnay,Stephen G. Penny,2019-11-20 In the Earth sciences a transition is currently occurring in multiple fields towards an integrated Earth system approach with applications including numerical weather prediction hydrological forecasting climate impact studies ocean dynamics estimation and monitoring and carbon cycle monitoring These approaches rely on coupled modeling techniques using Earth system models that account for an increased level of complexity of the processes and interactions between atmosphere ocean sea ice and terrestrial surfaces A crucial component of Earth system approaches is the development of coupled data assimilation of satellite observations to ensure consistent initialization at the interface between the different subsystems Going towards strongly coupled data assimilation involving all Earth system components is a subject of active research A lot of progress is being made in the ocean atmosphere domain but also over land As atmospheric models now tend to address subkilometric scales assimilating high spatial resolution satellite data in the land surface models used in atmospheric models is critical This evolution is also challenging for hydrological modeling This book gathers papers reporting research on various aspects of coupled data assimilation in

Earth system models It includes contributions presenting recent progress in ocean atmosphere land atmosphere and soil vegetation data assimilation

Remote Sensing and Water Resources A. Cazenave, N. Champollion, J. Benveniste, J. Chen, 2016-05-04 This book is a collection of overview articles showing how space based observations combined with hydrological modeling have considerably improved our knowledge of the continental water cycle and its sensitivity to climate change Two main issues are highlighted 1 the use in combination of space observations for monitoring water storage changes in river basins worldwide and 2 the use of space data in hydrological modeling either through data assimilation or as external constraints The water resources aspect is also addressed as well as the impacts of direct anthropogenic forcing on land hydrology e g ground water depletion dam building on rivers crop irrigation changes in land use and agricultural practices etc Remote sensing observations offer important new information on this important topic as well which is highly useful for achieving water management objectives Over the past 15 years remote sensing techniques have increasingly demonstrated their capability to monitor components of the water balance of large river basins on time scales ranging from months to decades satellite altimetry routinely monitors water level changes in large rivers lakes and floodplains When combined with satellite imagery this technique can also measure surface water volume variations Passive and active microwave sensors offer important information on soil moisture e g the SMOS mission as well as wetlands and snowpack The GRACE space gravity mission offers for the first time the possibility of directly measuring spatio temporal variations in the total vertically integrated terrestrial water storage When combined with other space observations e g from satellite altimetry and SMOS or model estimates of surface waters and soil moisture space gravity data can effectively measure groundwater storage variations New satellite missions planned for the coming years will complement the constellation of satellites monitoring waters on land This is particularly the case for the SWOT mission which is expected to revolutionize land surface hydrology Previously published in Surveys in Geophysics Volume 37 No 2 2016

[Congo Basin Hydrology, Climate, and Biogeochemistry](#) Raphael M. Tshimanga, Guy D. Moukandi N'kaya, Douglas Alsdorf, 2022-03-22 New scientific discoveries in the Congo Basin as a result of international collaborations The Congo is the world's second largest river basin and home to 120 million people Understanding the cycling of water sediments and nutrients is important as the region faces climatic and anthropogenic change Congo Basin Hydrology Climate and Biogeochemistry A Foundation for the Future explores variations in and influences on rainfall hydrology and hydraulics and sediment and carbon dynamics It features contributions from experts in the region and their international collaborators Volume highlights include New in situ and remotely sensed measurements and model results Use of historic data to assess precipitation and hydrologic changes Exploration of water exchange between wetlands and rivers Biogeochemical processes in the Congo's forests and wetlands A scientific foundation for hydrologic resource management in the region Studies from different parts of the Congo river and its adjoining basins This book is available in English and French The American Geophysical Union promotes discovery in Earth and space science

for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about this book in this short video and this article *Remote Sensing in Northern Hydrology* Claude R. Dugua,2005-01-14 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 163 The North with its vast and varied landscapes sparse population and cold climate has always challenged its explorers physically mentally logistically and technically The scientific community in particular has known such challenges in the past and does so today especially in light of the projected intensification of climate change at high latitudes Indeed there are clear signs that change is already ongoing in many environmental variables Air temperature and annual precipitation including snowfall are increasing in many regions spring snow cover extent is decreasing lake and river ice freeze up dates are occurring later and breakup dates earlier glaciers are retreating rapidly permafrost temperatures are increasing and in many cases the permafrost is thawing and sea ice extent is at record minimums and thinning *Fluid Dynamics in Complex Fractured-Porous Systems* Boris Faybishenko,Sally M. Benson,John E. Gale,2015-07-07 Despite of many years of studies predicting fluid flow heat and chemical transport in fractured porous media remains a challenge for scientists and engineers worldwide This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union Geophysical Monograph Series Vol 162 2005 and Geophysical Monograph No 122 2000 This monograph is dedicated to the late Dr Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology including such fundamental and applied problems as environmental remediation exploitation of oil gas and geothermal resources disposal of spent nuclear fuel and geotechnical engineering This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics field measurements and experiments for different practical applications Readers of this book will include researchers engineers and professionals within academia Federal agencies and industry as well as graduate undergraduate students involved in theoretical experimental and numerical modeling studies of fluid dynamics and reactive chemical transport in the unsaturated and saturated zones including studies pertaining to petroleum and geothermal reservoirs environmental management and remediation mining gas storage and radioactive waste isolation in underground repositories Volume highlights include discussions of the following Fundamentals of using a complex systems approach to describe flow and transport in fractured porous media Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi disciplinary research for different applications *Subduction Dynamics* Gabriele Morra,David A. Yuen,Scott D. King,Sang Mook Lee,Seth Stein,2015-11-02 Subduction dynamics has been actively studied through seismology mineral physics and laboratory and numerical experiments Understanding the dynamics of the subducting slab is critical to a better understanding of the

primary societally relevant natural hazards emerging from our planetary interior the megathrust earthquakes and consequent tsunamis Subduction Dynamics is the result of a meeting that was held between August 19 and 22 2012 on Jeju island South Korea where about fifty researchers from East Asia North America and Europe met Chapters treat diverse topics ranging from the response of the ionosphere to earthquake and tsunamis to the origin of mid continental volcanism thousands kilometers distant from the subduction zone from the mysterious deep earthquakes triggered in the interior of the descending slabs to the detailed pattern of accretionary wedges in convergent zones from the induced mantle flow in the deep mantle to the nature of the paradigms of earthquake occurrence showing that all of them ultimately are due to the subduction process Volume highlights include Multidisciplinary research involving geology mineral physics geophysics and geodynamics Extremely large scale numerical models with state of the art high performance computing facilities Overview of exceptional three dimensional dynamic representation of the evolution of the Earth interiors and of the earthquake and subsequent tsunami dynamics Global risk assessment strategies in predicting natural disasters This volume is a valuable contribution in earth and environmental sciences that will assist with understanding the mechanisms behind plate tectonics and predicting and mitigating future natural hazards like earthquakes volcanoes and tsunamis **Bioenergy and Land Use**

Change Zhangcai Qin, Umakant Mishra, Astley Hastings, 2017-12-11 Although bioenergy is a renewable energy source it is not without impact on the environment Both the cultivation of crops specifically for use as biofuels and the use of agricultural byproducts to generate energy changes the landscape affects ecosystems and impacts the climate Bioenergy and Land Use Change focuses on regional and global assessments of land use change related to bioenergy and the environmental impacts This interdisciplinary volume provides both high level reviews and in depth analyses on specific topics Volume highlights include Land use change concepts economics and modeling Relationships between bioenergy and land use change Impacts on soil carbon soil health water quality and the hydrologic cycle Impacts on natural capital and ecosystem services Effects of bioenergy on direct and indirect greenhouse gas emissions Biogeochemical and biogeophysical climate regulation Uncertainties and challenges associated with land use change quantification and environmental impact assessments Bioenergy and Land Use Change is a valuable resource for professionals researchers and graduate students from a wide variety of fields including energy economics ecology geography agricultural science geoscience and environmental science Read an interview with the editors to find out more <https://eos.org/editors-vox/bioenergys-impacts-on-the-landscape>

Dynamic Magma Evolution Francesco Vetere, 2021-01-07 Explores the complex physico chemical processes involved in active volcanism and dynamic magmatism Understanding the magmatic processes responsible for the chemical and textural signatures of volcanic products and igneous rocks is crucial for monitoring forecasting and mitigating the impacts of volcanic activity Dynamic Magma Evolution is a compilation of recent geochemical petrological physical and thermodynamic studies It combines field research experimental results theoretical approaches unconventional and novel techniques and computational

modeling to present the latest developments in the field Volume highlights include Crystallization and degassing processes in magmatic environments Bubble and mineral nucleation and growth induced by cooling and decompression Kinetic processes during magma ascent to the surface Magma mixing mingling and recharge dynamics Geo speedometer measurement of volcanic events Changes in magma rheology induced by mineral and volatile content The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals *The Early Earth* James Badro,Michael J.

Walter,2015-10-05 The Early Earth Accretion and Differentiation provides a multidisciplinary overview of the state of the art in understanding the formation and primordial evolution of the Earth The fundamental structure of the Earth as we know it today was inherited from the initial conditions 4 56 billion years ago as a consequence of planetesimal accretion large impacts among planetary objects and planetary scale differentiation The evolution of the Earth from a molten ball of metal and magma to the tectonically active dynamic habitable planet that we know today is unique among the terrestrial planets and understanding the earliest processes that led to Earth s current state is the essence of this volume Important results have emerged from a wide range of disciplines including cosmochemistry geochemistry experimental petrology experimental and theoretical mineral physics and geodynamics The topics in this volume include Condensation of primitive objects in the solar nebula planetary building blocks Early and late accretion and planetary dynamic modeling Primordial differentiation core formation Magma Ocean evolution and crystallization This volume will be a valuable resource for graduate students academics and researchers in the fields of geophysics geochemistry cosmochemistry and planetary science **Deep Earth**

Hidenori Terasaki,Rebecca A. Fischer,2016-04-04 Deep Earth Physics and Chemistry of the Lower Mantle and Core highlights recent advances and the latest views of the deep Earth from theoretical experimental and observational approaches and offers insight into future research directions on the deep Earth In recent years we have just reached a stage where we can perform measurements at the conditions of the center part of the Earth using state of the art techniques and many reports on the physical and chemical properties of the deep Earth have come out very recently Novel theoretical models have been complementary to this breakthrough These new inputs enable us to compare directly with results of precise geophysical and geochemical observations This volume highlights the recent significant advancements in our understanding of the deep Earth that have occurred as a result including contributions from mineral rock physics geophysics and geochemistry that relate to the topics of I Thermal structure of the lower mantle and core II Structure anisotropy and plasticity of deep Earth materials III Physical properties of the deep interior IV Chemistry and phase relations in the lower mantle and core V Volatiles in the deep Earth The volume will be a valuable resource for researchers and students who study the Earth s interior The topics of this volume are multidisciplinary and therefore will be useful to students from a wide variety of fields in the Earth Sciences **Integrated Imaging of the Earth** Max Moorkamp,Peter G. Lelièvre,Niklas

Linde, Amir Khan, 2016-05-02 Reliable and detailed information about the Earth's subsurface is of crucial importance throughout the geosciences. Quantitative integration of all available geophysical and geological data helps to make Earth models more robust and reliable. The aim of this book is to summarize and synthesize the growing literature on combining various types of geophysical and other geoscientific data. The approaches that have been developed to date encompass joint inversion, cooperative inversion, and statistical post-inversion analysis methods, each with different benefits and assumptions. Starting with the foundations of inverse theory, this book systematically describes the mathematical and theoretical aspects of how to best integrate different geophysical datasets with geological prior understanding and other complementary data. This foundational basis is followed by chapters that demonstrate the diverse range of applications for which integrated methods have been used to date. These range from imaging the hydrogeological properties of the near surface to natural resource exploration and probing the composition of the lithosphere and the deep Earth. Each chapter is written by leading experts in the field, which makes this book the definitive reference on integrated imaging of the Earth. Highlights of this volume include: Complete coverage of the theoretical foundations of integrated imaging approaches from inverse theory to different coupling methods and quantitative evaluation of the resulting models. Comprehensive overview of current applications of integrated imaging, including hydrological investigations, natural resource exploration, and imaging the deep Earth. Detailed case studies of integrated approaches providing valuable guidance for both experienced users and researchers new to joint inversion. This volume will be a valuable resource for graduate students, academics, industry practitioners, and researchers who are interested in using or developing integrated imaging approaches.

Fault Zone Dynamic Processes Marion Y. Thomas, Thomas M. Mitchell, Harsha S. Bhat, 2017-07-12 Earthquakes are some of the most dynamic features of the Earth. This multidisciplinary volume presents an overview of earthquake processes and properties, including the physics of dynamic faulting, fault fabric and mechanics, physical and chemical properties of fault zones, dynamic rupture processes, and numerical modeling of fault zones during seismic rupture. This volume examines questions such as: What are the dynamic processes recorded in fault gouge? What can we learn about rupture dynamics from laboratory experiments? How do on-fault and off-fault properties affect seismic ruptures? How do fault zones evolve over time? **Fault Zone Dynamic Processes: Evolution of Fault Properties During Seismic Rupture** is a valuable resource for scientists, researchers, and students from across the geosciences interested in the earthquakes processes.

Geological Carbon Storage Stéphanie Vialle, Jonathan Ajo-Franklin, J. William Carey, 2018-12-18 Geological Carbon Storage: Subsurface Seals and Caprock Integrity. Seals and caprocks are an essential component of subsurface hydrogeological systems, guiding the movement and entrapment of hydrocarbon and other fluids. Geological Carbon Storage: Subsurface Seals and Caprock Integrity offers a survey of the wealth of recent scientific work on caprock integrity, with a focus on the geological controls of permanent and safe carbon dioxide storage and the commercial deployment of geological carbon storage. Volume highlights

include Low permeability rock characterization from the pore scale to the core scale Flow and transport properties of low permeability rocks Fundamentals of fracture generation self healing and permeability Coupled geochemical transport and geomechanical processes in caprock Analysis of caprock behavior from natural analogues Geochemical and geophysical monitoring techniques of caprock failure and integrity Potential environmental impacts of carbon dioxide migration on groundwater resources Carbon dioxide leakage mitigation and remediation techniques Geological Carbon Storage Subsurface Seals and Caprock Integrity is an invaluable resource for geoscientists from academic and research institutions with interests in energy and environment related problems as well as professionals in the field

Handbook of Drought and Water Scarcity Saeid Eslamian, Faezeh A. Eslamian, 2017-07-20 This volume includes over 30 chapters written by experts from around the world It examines the environmental aspects of drought such as groundwater and soil contamination river low flow urban water quality and desertification It also examines the effects of climate change and variability on drought and discusses the differences in groundwater rainfall and temperatures and their related effects It presents analytical modeling for better understanding drought in uncertain and changing climates

Climate Extremes S.-Y. Simon Wang, Jin-Ho Yoon, Christopher C. Funk, Robert R. Gillies, 2017-07-24 Although we are seeing more weather and climate extremes individual extreme events are very diverse and generalization of trends is difficult For example mid latitude and subtropical climate extremes such as heat waves hurricanes and droughts have increased and could have been caused by processes including arctic amplification jet stream meandering and tropical expansion This volume documents various climate extreme events and associated changes that have been analyzed through diagnostics modeling and statistical approaches The identification of patterns and mechanisms can aid the prediction of future extreme events Volume highlights include Compilation of processes and mechanisms unique to individual weather and climate extreme events Discussion of climate model performance in terms of simulating high impact weather and climate extremes Summary of various existing theories including controversial ones on how climate extremes will continue to become stronger and more frequent Climate Extremes Patterns and Mechanisms is a valuable resource for scientists and graduate students in the fields of geophysics climate physics natural hazards and environmental science Read an interview with the editors to find out more <https://eos.org/editors-vox/how-does-changing-climate-bring-more-extreme-events>

Auroral Dynamics and Space Weather Yongliang Zhang, Larry J. Paxton, 2015-12-21 The aurora is the most visible manifestation of the connection of the Earth to the space environment and has inspired awe curiosity and scientific inquiry for centuries Recent advances in observing techniques and modeling and theoretical work have revealed new auroral phenomena provided a better understanding of auroral dynamics and have led to an enhanced capability for auroral forecasts This monograph features discussions of New auroral phenomena due to the ring current ion and polar rain electron precipitation Various auroral forms and hemispheric asymmetry Auroral model development and MHD simulations Application of the auroral observations for radio absorption and scintillation

Aurora nowcast and forecast for space weather operations Auroral Dynamics and Space Weather is a valuable contribution for scientists researchers space weather operators and students of Earth s space environment

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