

GROUNDWATER FLUXES ACROSS INTERFACES

NATIONAL RESEARCH COUNCIL
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Groundwater Fluxes Across Interfaces

Peter Huggenberger, Jannis Epting



Groundwater Fluxes Across Interfaces:

Groundwater Fluxes Across Interfaces National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Water Science and Technology Board, Committee on Hydrologic Science, 2004-02-20 Estimates of groundwater recharge and discharge rates are needed at many different scales for many different purposes These include such tasks as evaluating landslide risks managing groundwater resources locating nuclear waste repositories and estimating global budgets of water and greenhouse gases Groundwater Fluxes Across Interfaces focuses on scientific challenges in 1 the spatial and temporal variability of recharge and discharge 2 how information at one scale can be used at another and 3 the effects of groundwater on climate and vice versa

Groundwater Fluxes Across Interfaces Water Science and Technology Board, 2004 Estimates of groundwater recharge and discharge rates are needed at many different scales for many different purposes These include such tasks as evaluating landslide risks managing groundwater resources locating nuclear waste repositories and estimating global budgets of water and greenhouse gases The report focuses on scientific challenges in 1 spatial and temporal variability of recharge and discharge 2 how information at one scale can be used at another and 3 the effects of groundwater on climate and vice versa

Ecohydrological Interfaces Stefan Krause, David M. Hannah, Nancy B. Grimm, 2023-10-16 Ecohydrological Interfaces Comprehensive overview of the process dynamics and interactions governing ecohydrological interfaces Summarizing the interdisciplinary investigation of ecohydrological interface functioning Ecohydrological Interfaces advances the understanding of their dynamics across traditional subject boundaries It offers a detailed explanation of the underlying mechanisms and process interactions governing ecohydrological interface functioning from the micro scale to the ecosystem and regional scale The multidisciplinary team of authors integrates and synthesises the current understanding of process dynamics at different ecohydrological interfaces to develop a unifying concept of their ecosystem functions The work introduces novel experimental and model based methods for characterizing and quantifying ecohydrological interface processes taking account of innovative sensing and tracing technologies as well as microbial and molecular biology approaches Key questions addressed in the book include Which conditions stimulate the transformative nature of ecohydrological interfaces How are ecohydrological interfaces organized in space and time How does interface activity

propagate from small to large scales How do ecohydrological interfaces react to environmental change and what is their role in processes of significant societal value As a research level text on the functionality and performance of ecohydrological interfaces Ecohydrological Interfaces is primarily aimed at academics and postgraduate researchers It is also appropriate for university libraries as further reading on a range of geographical environmental biological and engineering topics

Groundwater Fluxes Across Interfaces Water Science and Technology Board, 2004 Estimates of groundwater recharge and discharge rates are needed at many different scales for many different purposes These include such tasks as evaluating landslide risks managing groundwater resources locating nuclear waste repositories and estimating global budgets of water and greenhouse gasses The report focuses on scientific challenges in 1 spatial and temporal variability of recharge and discharge 2 how information at one scale can be used at another and 3 the effects of groundwater on climate and vice versa

Restructuring Federal Climate Research to Meet the Challenges of Climate Change National Research Council, Division of Behavioral and Social Sciences and Education, Division on Earth and Life Studies, Committee on Strategic Advice on the U.S. Climate Change Science Program, 2009-03-25 Climate change is one of the most important global environmental problems facing the world today Policy decisions are already being made to limit or adapt to climate change and its impacts but there is a need for greater integration between science and decision making This book proposes six priorities for restructuring the United States climate change research program to develop a more robust knowledge base and support informed responses Reorganize the Program Around Integrated Scientific Societal Issues Establish a U S Climate Observing System Support a New Generation of Coupled Earth System Models Strengthen Research on Adaptation Mitigation and Vulnerability Initiate a National Assessment of the Risks and Costs of Climate Change Impacts and Options to Respond Coordinate Federal Efforts to Provide Climate Information Tools and Forecasts Routinely to Decision Makers Evaluating Progress of the U.S. Climate Change Science Program National Research Council, Division of Behavioral and Social Sciences and Education, Division on Earth and Life Studies, Committee on Strategic Advice on the U.S. Climate Change Science Program, 2007-12-28 The U S Climate Change Science Program CCSP coordinates the efforts of 13 federal agencies to understand why climate is changing to improve predictions about how it will change in the future and to use that information to assess impacts on human systems and ecosystems and to better support decision making Evaluating Progress of the U S Climate Change Science Program is the first review of the CCSP's progress since the program was established in 2002 It lays out a method for evaluating the CCSP and uses that method to assess the strengths and weaknesses of the entire program and to identify areas where progress has not met expectations The committee found that the program has made good progress in documenting and understanding temperature trends and related environmental changes on a global scale as well as in understanding the influence of human activities on these observed changes The ability to predict future climate changes also has improved but efforts to understand the impacts of such changes on society and analyze mitigation and adaptation strategies are still

relatively immature The program also has not met expectations in supporting decision making studying regional impacts and communicating with a wider group of stakeholders

Global Geodetic Observing System Hans-Peter Plag, Michael Pearlman, 2009-07-25 The Global Geodetic Observing System GGOS has been established by the International Association of Geodesy IAG in order to integrate the three fundamental areas of geodesy so as to monitor geodetic parameters and their temporal variations in a global reference frame with a target relative accuracy of 10 or better These areas often called pillars deal with the determination and evolution of a the Earth's geometry topography bathymetry ice surface sea level b the Earth's rotation and orientation polar motion rotation rate nutation etc and c the Earth's gravity field gravity geoid Therefore Earth Observation on a global scale is at the heart of GGOS's activities which contributes to Global Change research through the monitoring as well as the modeling of dynamic Earth processes such as for example mass and angular momentum exchanges mass transport and ocean circulation and changes in sea land and ice surfaces To achieve such an ambitious goal GGOS relies on an integrated network of current and future terrestrial airborne and satellite systems and technologies These include various positioning navigation remote sensing and dedicated gravity and altimetry satellite missions global ground networks of VLBI SLR DORIS GNSS and absolute and relative gravity stations and airborne gravity mapping and remote sensing systems

Hydrology, Ecology, and Fishes of the Klamath River Basin National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Board on Environmental Studies and Toxicology, Committee on Hydrology, Ecology, and Fishes of the Klamath River, 2008-03-11 The Klamath River basin which spans parts of southern Oregon and northern California has been the focus of a prominent conflict over competing uses for water Management actions to protect threatened and endangered fish species in the basin have left less water available for irrigation in dry years and heightened tensions among farmers and other stakeholders including commercial fishermen Native Americans conservationists hunters anglers and hydropower producers This National Research Council book assesses two recent studies that evaluate various aspects of flows in the Klamath basin 1 the Instream Flow Phase II study IFS conducted by Utah State University and 2 the Natural Flow of the Upper Klamath Basin study NFS conducted by the U S Bureau of Reclamation USBR The book concludes that both studies offer important new information but do not provide enough information for detailed management of flows in the Klamath River and it offers many suggestions for improving the studies The report recommends that a comprehensive analysis of the many individual studies of the Klamath river basin be conducted so that a big picture perspective of the entire basin and research and management needs can emerge

The Handbook of Groundwater Engineering John H. Cushman, Daniel M. Tartakovsky, 2016-11-25 This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO2 sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of

contaminants both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater

Streams and Ground Waters Jeremy B. Jones, Patrick J. Mulholland, 1999-12-06 Streams around the world flow toward the sea in floodplains All along this transit there is exchange of water between the stream itself and the surrounding sediments which form the floodplain Many chemical biological and geological processes occur when water moves back and forth between streams and these flood plain sediments Streams and Groundwaters focuses on the consequences of water flow between streams their underlying sediments and surrounding landscapes Certain to appeal to anyone interested in stream ecology the management of stream ecosystems or landscape ecology this volume should become a oft opened reference

Mathematical Methods For Surface And Subsurface Hydrosystems Deguan Wang, Christian Duquennoi, Alexandre Ern, 2007-02-26 With the increasing awareness of the heavy burden placed on environmental resources and the need for industry and public institutions to cope with more stringent regulations this timely book focuses on some specific but very important environmental problems namely surface and subsurface hydrosystems Covering state of the art techniques to model such systems the volume will be of great benefit to all researchers in applied mathematics and environmental engineering

U-Th Series Nuclides in Aquatic Systems, 2011-07-29 Major advancement in the U Th measurement techniques since the 1990 s have resulted in new opportunities for the use of these nuclides to probe into aquatic processes in greater detail U Th Series Nuclides in Aquatic Systems provides state of the art reviews on the applications of U Th series nuclides to time and tag in a variety of processes occurring in aquatic systems State of art reviews on the applications of U Th Series nuclides to time and tag key processes occurring in aquatic systems Self contained each chapter presents nuclide source functions processes regulating their distributions and models used to describe them Emphasizes current thinking in the field and future directions

Urban Geology Peter Huggenberger, Jannis Epting, 2011-09-01 Urban subsurface resources and particularly urban groundwater are vulnerable to environmental impacts and their rational management is of major importance In this book a multidisciplinary team of specialists and scientists presents innovative process oriented approaches to the sustainable use of these resources The included case studies from northwestern Switzerland describe representative environments and are relevant for urban areas in general They illustrate the protection of groundwater river restoration engineering and hydrogeological questions related to urban infrastructure and management concepts as well as monitoring modeling and remediation strategies for contaminated sites problems caused by karst in urban environments the use of shallow geothermal energy and natural hazards such as flood events and earthquakes It is demonstrated that modern quantitative earth sciences can contribute significantly in finding solutions concerning the sustainable use of subsurface resources in urban environments The book is an invaluable source of information for hydrogeologists geologists urban planners water supply engineers and environmental agencies

The Role of Submarine Groundwater Discharge as Material Source to the Baltic Sea Beata Szymczycha, Janusz

Pempkowiak,2015-11-27 The book provides a review of experimental methods and presents the worldwide newest literature regarding chemical substances fluxes via submarine groundwater discharge SGD Thus the book characterizes both the distribution of chemicals in groundwater impacted areas in the Baltic Sea and their fluxes via SGD to the Baltic Sea This book presents the state of art regarding the SGD and detailed studies on SGD characterization in the Baltic Sea The Baltic Sea is an example of a region highly influenced by a variety of human activities that affect the ecosystem It is shown that SGD has been proven to be one of the important sources introducing dissolved substances into the Baltic Sea The loads of chemical substances delivered to the Baltic sea with SGD have not been quantified so far **Coastal Aquifer**

Management-Monitoring, Modeling, and Case Studies Alexander H.D. Cheng,Driss Ouazar,2003-12-18 Approximately 70% of the world s population lives in coastal areas and the majority of these people depend on coastal aquifers for freshwater The fragility of these aquifers and their sensitivity to human activity demand informed competent management to guarantee their survival Significant knowledge and new technologies related to the subject h **Water Quality and**

Sediment Behaviour of the Future Bruce Webb,Dirk Henk De Boer,2007 This volume is an outcome of a symposium organized by the IAHS International Commissions on Water Quality ICWQ Continental Erosion ICCE and Groundwater ICGW and the Predictions in Ungauged Basins PUB Working Group with the objective of bringing together experts to provide a state of the art review of our current understanding of how water quality and sediment behaviour might alter as a result of climate and land use change during the 21st century *Hydropedology* Henry Lin,2012-08-17 Overviews and fundamentals

Case studies and applications *Advances in modeling mapping and coupling* *Groundwater Recharge in a Desert Environment* James F. Hogan,Fred M. Phillips,Bridget R. Scanlon,2013-03-19 This volume contains discussions on developing environmental tracers to fingerprint sources and amounts of groundwater at the basin scale the critical role of vegetation in hydroecological processes new geophysical methods in quantifying channel recharge applying geographical information system GIS models to land surface processes coupling process based vadose zone to groundwater modeling and more

Submarine Groundwater Igor S. Zektser,Lorne G. Everett,Roald G. Dzhamalov,2006-09-29 Sustainable management of water resources is quickly increasing in importance on a global scale An important piece of the puzzle is the characterization of marine water and determining its importance to geochemical budgets To do this submarine groundwater discharges must be carefully studied Comprehensively exploring the subject Submarine G

The Enigmatic Realm of **Groundwater Fluxes Across Interfaces**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Groundwater Fluxes Across Interfaces** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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