



# Radiation and Water in the Climate System

Remote Measurements

Edited by  
Ehrhard Raschke

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# Radiation And Water In The Climate System Remote Measurements

**Kouki Hikosaka, Ülo Niinemets, Niels  
P.R. Anten**



## **Radiation And Water In The Climate System Remote Measurements:**

Radiation and Water in the Climate System Ehrhard Raschke, 2013-06-29 The search for an accurate knowledge of the transfer of energy and water in our climate system and of all participating processes is still a burning issue within environmental and climate research More reliable ways should be found to model them in their complex interplay with cascades of processes in that system and their impact on all our resources on earth Such modelling needs also validation with accurate and complete observations which in turn should also enable to observe variations of climate components These are the goals of the Global Energy and Water Experiment GEWEX which began its work about 8 years ago Many advanced remote sensing capabilities have now been developed of which only a few will enter into satellite based platforms These new developments should be brought to the attention of a broader community of younger scientists in particular of those countries which quite recently could open their borders for free exchanges

### **The Near-Surface Layer of the Ocean**

Alexander Soloviev, Roger Lukas, 2006-02-21 Until the 1980s a tacit agreement among many physical oceanographers was that nothing deserving attention could be found in the upper few meters of the ocean The lack of adequate knowledge about the near surface layer of the ocean was mainly due to the fact that the widely used oceanographic instruments such as bathythermographs CTDs current meters etc were practically useless in the upper few meters of the ocean Interest in the near surface layer of the ocean rapidly increased along with the development of remote sensing techniques The interpretation of ocean surface signals sensed from satellites demanded thorough knowledge of upper ocean processes and their connection to the ocean interior Despite its accessibility to the investigator the near surface layer of the ocean is not a simple subject of experimental study Random sometimes huge vertical motions of the ocean surface due to surface waves are a serious complication for collecting quality data close to the ocean surface The supposedly minor problem of avoiding disturbances from ships wakes has frustrated several generations of oceanographers attempting to take reliable data from the upper few meters of the ocean Important practical applications nevertheless demanded action and as a result several pioneering works in the 1970s and 1980s laid the foundation for the new subject of oceanography the near surface layer of the ocean

**Energy and Water Cycles in the Climate System** Ehrhard Raschke, Daniela Jacob, 2013-06-29 Water is the most effective agent in the climate system to modulate energy transfer by radiative processes through its exchanges of latent heat and within cascades of chemical processes It is the source of all life on earth and once convective clouds are formed it enables large vertical transports of momentum heat and various atmospheric constituents up to levels above the tropical tropopause Water triggers very complex processes at the earth's continental surfaces and within the oceans At last water in its gaseous phase is the most important greenhouse gas Numerical modelling and measurements of the state of the present climate system needs a very thorough understanding of all these processes and their various interactions and forcings This is a prerequisite for more substantial forecasts of future states in all scales of time from days to centuries Therefore the

management of the World Climate Research Programme established in 1988 the new programme GEWEX Global Energy and Water Cycle Experiment GEWEX is specifically defined to determine the energy and water transports in the fast components of the climate system with the presently available modelling and measurement means and to provide new capabilities for the future Research in GEWEX must further develop methods to determine the influence of climatic anomalies on available water resources

Mediterranean Land-surface Processes Assessed from Space Hans-Jürgen Bolle, Matthias Eckardt, Dirk Koslowsky, Fabio Maselli, Joaquin Melia Miralles, Massimo Menenti, Folke-Sören Olesen, Ljiljana Petkov, S. Ichtiaque Rasool, Adriaan Griend, 2007-02-13 This is a detailed description of the steps leading from raw signals measured in space to calibrated comparable long term data sets to its final form useful information for user communities Examples of applications and data validations result from different investigations in the Mediterranean area An appendix summarizes useful formulas of the evaluation of satellite data

**Environmental Consequences of War and Aftermath** Tarek A. Kassim, Damià Barceló, 2009-04-07 and used in munitions Rather the requirements for the agent's military effects took precedence In addition the interaction among the political technical and legal challenges connected with the known or possible risks posed by CW agents is complex and sometimes not well understood This is usually because technical considerations when acted on are almost invariably informed by political ones such as various legal requirements The book contains nine chapters covering different aspects of the research on environmental consequences of war and its aftermath and covers in one additional chapter more general issues such as prevention of war and its environmental consequences the legal political and technical background to selected environmental and human health effects of CW agents and the atmospheric transport and deposition of persistent organic pollutants under warfare conditions to more specific ones related to two main tragic examples the war in the Balkans and the Gulf War Aspects of the war in the Balkans cover contamination by heavy metals in Serbian national parks the impact of NATO strikes on the Danube river basin and the problems associated with transuranium elements The Gulf War in Kuwait covers other problems related to the impact of oil contamination the impact on groundwater resources and the soil damage of ground fortifications among other environmental and health problems

Ice Physics and the Natural Environment John S. Wettlaufer, J. Gregory Dash, Norbert Untersteiner, 2013-06-29 The Advanced Study Institute Ice Physics in the Natural and Endangered Environment was held at Acquafredda di Maratea Italy from September 7 to 19 1997 The ASI was designed to study the broad range of ice science and technology and it brought together an appropriately interdisciplinary group of lecturers and students to study the many facets of the subject The talks and poster presentations explored how basic molecular physics of ice have important environmental consequences and conversely how natural phenomena present new questions for fundamental study The of lectures discusses these linkages in order that overall unity of following summary the subject and this volume can be perceived Not all of the lecturers and participants were able to contribute a written piece but their active involvement was crucial to the success of the Institute and thereby influenced the

content of the volume We began the Institute by retracing the history of the search for a microscopic understanding of melting Our motivation was straightforward Nearly every phenomenon involving ice in the environment is influenced by the change of phase from solid to liquid or vice versa Hence a sufficiently deep physical picture of the melting transition enriches our appreciation of a vast array of geophysical and technical problems Geodetic and Geophysical Observations in Antarctica Alessandro Capra, Reinhard Dietrich, 2008-08-15 Due to their unique geophysical and geodynamic environment both the Arctic and Antarctic polar regions are often utilized for geodetic and geophysical observations This book is a collection of papers on various aspects of the scientific investigation and observation techniques of the polar regions at both temporary and permanent observatories Most papers focus on regional models based on data acquired in polar regions Geodetic satellite positions systems GNSS GPS GLONASS GALILEO will also be discussed as well as other space techniques DORIS VLBI Gravimetry absolute gravimetry and tidal gravimetry are also discussed as well as seismology and meteorology The book also touches on data analysis and geodynamic interpretation and discusses methods of constructing autonomous observatories **Remote Sensing in Water Resources Management** W. G. M. Bastiaanssen, 1998 *Our Warming Planet: Topics In Climate Dynamics* Cynthia Rosenzweig, David Rind, Andrew Lacis, Danielle Peters, 2018-01-18 The processes and consequences of climate change are extremely heterogeneous encompassing many different fields of study Dr David Rind in his career at the NASA Goddard Institute for Space Studies and as a professor at Columbia University has had the opportunity to explore many of these subjects with colleagues from these diverse disciplines It was therefore natural for the Lectures in Climate Change series to begin with his colleagues contributing lectures on their specific areas of expertise This first volume entitled *Our Warming Planet Topics in Climate Dynamics* encompasses topics such as natural and anthropogenic climate forcing climate modeling radiation clouds atmospheric dynamics storms hydrology clouds the cryosphere paleoclimate sea level rise agriculture atmospheric chemistry and climate change education Included with this publication are downloadable PowerPoint slides of each lecture for students and teachers around the world to be better able to understand various aspects of climate change The lectures on climate change processes and consequences provide snapshots of the cutting edge work being done to understand what may well be the greatest challenge of our time in a form suitable for classroom presentation Encyclopedia of Atmospheric Sciences Gerald R. North, John A. Pyle, Fuqing Zhang, 2014-09-14 *Encyclopedia of Atmospheric Sciences* Second Edition Six Volume Set is an authoritative resource covering all aspects of atmospheric sciences including both theory and applications With more than 320 articles and 1 600 figures and photographs this revised version of the award winning first edition offers comprehensive coverage of this important field The six volumes in this set contain broad ranging articles on topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction The Encyclopedia is an ideal resource for academia government and industry in the fields of atmospheric ocean and

environmental sciences It is written at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Covers all aspects of atmospheric sciences including both theory and applications Presents more than 320 articles and more than 1 600 figures and photographs Broad ranging articles include topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction An ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences

**Clouds and Climate** A. Pier Siebesma, Sandrine Bony, Christian Jakob, Bjorn Stevens, 2020-08-20 Cloud research is a rapidly developing branch of climate science that is vital to climate modelling With new observational and simulation technologies our knowledge of clouds and their role in the warming climate is accelerating This book provides a comprehensive overview of research on clouds and their role in our present and future climate covering theoretical observational and modelling perspectives Part I discusses clouds from three different perspectives as particles light and fluid Part II describes our capability to model clouds ranging from theoretical conceptual models to applied parameterised representations Part III describes the interaction of clouds with the large scale circulation in the tropics mid latitudes and polar regions Part IV describes how clouds are perturbed by aerosols the land surface and global warming Each chapter contains end of chapter exercises and further reading sections making this an ideal resource for advanced students and researchers in climatology atmospheric science meteorology and climate change

*Soviet Aeronautics and Astronautics* ,1985     *Arctic Research of the United States* ,2003     *Energy and Water Development Appropriations for 1993* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 1992     *Canopy Photosynthesis: From Basics to Applications* Kouki Hikosaka, Ülo Niinemets, Niels P.R. Anten, 2015-12-17 The last 30 years has seen the development of increasingly sophisticated models that quantify canopy carbon exchange These models are now essential parts of larger models for prediction and simulation of crop production climate change and regional and global carbon dynamics There is thus an urgent need for increasing expertise in developing use and understanding of these models This in turn calls for an advanced yet easily accessible textbook that summarizes the canopy science and introduces the present and the future scientists to the theoretical background of the current canopy models This book presents current knowledge of functioning of plant canopies models and strategies employed to simulate canopy function and the significance of canopy architecture physiology and dynamics in ecosystems landscape and biosphere

**Encyclopedia of Ocean Sciences** ,2019-04-12 The oceans cover 70% of the Earth's surface and are critical components of Earth's climate system This new edition of Encyclopedia of Ocean Sciences Six Volume Set summarizes the breadth of knowledge about them providing revised up to date entries as well coverage of new topics in the field New and expanded sections include microbial ecology high latitude systems and the cryosphere climate and climate change hydrothermal and cold seep systems The structure of the work provides a modern presentation of the field reflecting

the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief In this framework maximum attention has been devoted to making this an organic and unified reference Represents a one stop organic information resource on the breadth of ocean science research Reflects the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief New and expanded sections include microbial ecology high latitude systems and climate change Provides scientifically reliable information at a foundational level making this work a resource for students as well as active researches

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

*Selected Water Resources Abstracts*, 1991      *The Federal Plan for Meteorological Services and Supporting Research* United States. Office of Federal Coordinator for Meteorological Services and Supporting Research, 1995

Space-based Remote Sensing of the Earth and Its Atmosphere, 1986

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