

Land Surface Processes in Atmospheric General Circulation Models

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Land Surface Processes In Atmospheric General Circulation Models

M.E. Schlesinger



Land Surface Processes In Atmospheric General Circulation Models:

Land Surface Processes in Atmospheric General Circulation Models P. S. Eagleson, Peter S. Eagleson, 2011-02-17 This 1982 book consists of papers presented at the World Climate Research Programme study conference on land surface processes held in Greenbelt Maryland from 5 to 10 January 1981 The papers cover the following the state of knowledge of the sensitivity of atmospheric general circulation models on hydrology and other land surface processes assessment of the state of knowledge of numerical modelling of hydrology and other land surface processes at the scale of atmospheric general circulation models recommendations for research activities establishment of data requirements for initialization validation and parameter evaluation This book will continue to be of interest to atmospheric scientists soil physicists hydrologists and climatologists *Land Surface Processes in Atmospheric General Circulation Models* Peter S. Eagleson, 1982 *Land Surface Processes in Atmospheric General Circulation Models* Peter S. Eagleson, 1982 *The Global Climate* John T. Houghton, 1985-09-05 Now in paperback this book has succeeded in its aim to introduce the global climate problem and the complex processes and interactions which play a part in climatic change to a wide range of scientists working in climatic research or the related fields of meteorology oceanography glaciology and hydrology It is centred around the World Climate Research Programme an international enterprise jointly sponsored by the scientific community through the International Council of Scientific Unions and the national weather centres through the World Meteorological Organisation If progress is to be made in understanding climatic change it is necessary to observe and understand all components of the climate system and the interactions between them This book is particularly relevant to many contemporary climatic problems and to the two most important questions arising from them to what extent can changes in climate be predicted and what is the extent of man's influence on climate The Global Climate answers these questions showing how the important processes may be observed evaluated and modelled by computer *Land Surface — Atmosphere Interactions for Climate Modeling* E.F. Wood, 2012-12-06 It is well known that the interactions between land surfaces and the atmosphere and the resulting exchanges in water and energy have a tremendous affect on climate The inadequate representation of land atmosphere interactions is a major weakness in current climate models and is providing the motivation for the HAPEX and ISLSCP experiments as well as the proposed Global Energy and Water Experiment GEWEX and the Earth Observing System EOS mission The inadequate representation reflects the recognition that the well known physical relationships which are well described at small scales result in different relationships when represented at the scales used in climate models Understanding this transition in the mathematical relationships with increased space time scales appears to be very difficult and has led to different approaches at one extreme the famous bucket model where the land surface is a simple one layer storage without vegetation the other extreme may be Sellers's Simple Biosphere Model Sib where one big leaf covers the climate model grid Given the heterogeneous nature of landforms soils and vegetation within a climate model grid the

development of new land surface parameterizations and their verification through large scale experiments is perceived to be a challenging area of research for the hydrology and meteorology communities This book evolved from a workshop held at Princeton University to explore the status of land surface parameterizations within climate models and how observational data can be used to assess these parameterizations and improve models Land Surface Evaporation Thomas J. Schmugge, Jean-Claude Andre, 2012-12-06 General circulation model GCM experiments in the late 1970 s indicated that the climate is sensitive to variations in evaporation at the land surface Thus in the context of climate modeling it became important to develop techniques which would realistically estimate the evaporation flux on land Land Surface Evaporation Measurement and Parameterization discusses strategies for the use of experimental data in developing and testing parameterization schemes of the evaporation flux in GCM s The book reviews state of the art techniques such as remote sensing which measure evaporation fluxes over continental surfaces It evaluates their relevance with respect to the various spatial and temporal scales of interest This book will provide researchers in climatology meteorology hydrology and water management and remote sensing with a thorough overview of current research in land surface evaporation It will also give young scientists insight into surface processes **Physically-Based Modelling and Simulation of Climate and Climatic Change** M.E. Schlesinger, 2012-12-06 PREFACE xv LIST OF LECTURERS xix LIST OF PARTICIPANTS xx VOLUME I PART I DESIGN AND DEVELOPMENT OF PHYSICALLY BASED MODELS OF THE ATMOSPHERE Section 1 Introduction GATES W L Climate and the Climate System 3 SIMMONS A J and L BENGTSSON Atmospheric General Circulation Models Their Design and Use for Climate Studies 23 Section 2 Numerical Methods for Large Scale Dynamics ARAKAWA A Finite Difference Methods in Climate Modeling 79 BOURKE W Spectral Methods in Global Climate and Weather Prediction Models 169 Section 3 Parameterization of Subgrid Scale Physical Processes FOUQUART Y Radiative Transfer in Climate Models 223 LAVAL K Land Surface Processes 285 SELLERS P J Y MINTZ Y C SUD and A DALCHER A Brief Description of the Simple Biosphere Model SiB 307 SOMMERIA G Parameterization of the Planetary Boundary Layer in Large Scale Atmospheric Models 331 x TABLE OF CONTENTS TIEDTKE M Parameterization of Cumulus Convection in Large Scale Models 375 SUNDQVIST H Parameterization of Condensation and Associated Clouds in Models for Weather Prediction and General Circulation Simulation 433 PART II DESIGN AND DEVELOPMENT OF PHYSICALLY BASED MODELS OF THE OCEAN AND SEA ICE HAN Y J Modelling and Simulation of the General Circulation of the Ocean 465 HIBLER W D Modelling Sea Ice Thermodynamics and Dynamics in Climate Studies 509 PART III METHODS OF COUPLING ATMOSPHERE OCEAN AND ICE MODELS BRYAN K The Mathematics of Models for Climatology and Environment Jesus I. Diaz, 2013-06-29 This book is the culmination of the NATO Advanced Study Institute on The Mathematics of Models for Climatology and Environment which was held at Puerto de la Cruz Tenerife Spain during 11-21 January 1995 One of the main goals of the ASI was to establish a bridge between mathematical modellers on the one hand and physical oceanographers and climatologists on the

other The book is divided into four parts containing a total of 16 chapters Parts I II and III are devoted to general models and Part IV to models related to some local problems Most of the mathematical models here considered involve systems of nonlinear partial differential equations The mathematical treatment covers a large list of subjects existence and uniqueness for well posed problems large time behaviour stability bifurcation diagrams of equilibria conditions for the occurrence of interfaces or free boundaries numerical algorithms and its implementation controllability of the problems etc I thank Jacques Louis Lions and Cornelius Johannes van Duijn for their guidance and collaboration as co-directors of the ASI I also thank J F Padiol and G Diaz for their help in the planning and conduct of the ASI as well as in the preparation of this book

Vegetation, Water, Humans and the Climate Pavel Kabat, Martin Claussen, Paul A. Dirmeyer, John H.C. Gash, Lelys Bravo de Guenni, Michel Meybeck, Roger Pielke, Charles J. Vörösmarty, Ronald W.A. Hutjes, Sabine Lütkeemeier, 2012-12-06 A state of the art overview of the influence of terrestrial vegetation and soils within the Earth system The text deals especially with interactions between the terrestrial biosphere and the atmosphere via the hydrological cycle and their interlinkage with anthropogenic activities Measurements gathered in integrated field experiments in the Sahel the Amazon North America and South east Asia confirm the importance of these interactions Observations are complemented by modelling studies including regional models that simulate flows and transport in river catchments coupled land cover and regional climate systems and Earth system and global circulation models Water nutrient and sediment fluxes in river basins are also discussed and are shown to be highly impacted and regulated by humans through land use pollution and river engineering Finally the book discusses environmental vulnerability and methodologies for assessing the risks associated with regional and global climatic and environmental variability and change The results reported in this book are based on the research work of many individual scientists and teams around the world associated with the objectives of the IGBP BAHC and WCRP GEWEX international research programmes

Terrestrial Hydrometeorology W. James Shuttleworth, 2012-01-30 Both hydrologists and meteorologists need to speak a common scientific language and this has given rise to the new scientific discipline of hydrometeorology which deals with the transfer of water and energy across the land atmosphere interface Terrestrial Hydrometeorology is the first graduate level text with sufficient breadth and depth to be used in hydrology departments to teach relevant aspects of meteorology and in meteorological departments to teach relevant aspects of hydrology and to serve as an introductory text to teach the emerging discipline of hydrometeorology The book will be essential reading for graduate students studying surface water hydrology meteorology and hydrometeorology It can also be used in advanced undergraduate courses and will be welcomed by academic and professional hydrologists and meteorologists worldwide Additional resources for this book can be found at <http://www.wiley.com/go/shuttleworth>

hydrometeorology **Scientific and Technical Aerospace Reports**, 1992 *A Climate Modelling Primer* Kendal McGuffie, Ann Henderson-Sellers, 2013-04-10 As a consequence of recent increased awareness of the social and political

dimensions of climate many non specialists discover a need for information about the variety of available climate models A Climate Modelling Primer Third Edition explains the basis and mechanisms of all types of current physically based climate models A thoroughly revised and updated edition this book assists the reader in understanding the complexities and applicabilities of today s wide range of climate models Topics covered include the latest techniques for modelling the coupled biosphere ocean atmosphere system information on current practical aspects of climate modelling and ways to evaluate and exploit the results discussion of Earth System Models of Intermediate Complexity EMICs and interactive exercises based on Energy Balance Model EBM and the Daisyworld model Source codes and results from a range of model types allows readers to make their own climate simulations and to view the results of the latest high resolution models The accompanying CD contains A suite of resources for those wishing to learn more about climate modelling A range of model visualisations Data from climate models for use in the classroom Windows and Macintosh programs for an Energy Balance Model Selected figures from the book for inclusion in presentations and lectures Suitable for 3rd 4th year undergraduates taking courses in climate modelling economic forecasting computer science environmental science geography and oceanography Also of relevance to researchers and professionals working in related disciplines with climate models or who need accessible technical background to climate modelling predictions

NASA Technical Memorandum ,1992 Climate Change and Terrestrial Ecosystem Modeling Gordon Bonan,2019-02-21 Provides an essential introduction to modeling terrestrial ecosystems in Earth system models for graduate students and researchers

Variations in the Global Water Budget F.A. Street-Perrott,Max Beran,R. Ratcliff,2012-12-06 R E Newell President International Commission on Climate International Association of Meteorology and Atmospheric Physics Water is the active ingredient in the global climatic system its physical properties ensuring that it plays a major role Its high thermal capacity provides a mechanism for moderating mid latitude winter temperatures solar energy is absorbed by the surface layers of the middle latitude oceans in summer and is released to the atmosphere in winter as the ocean cools The variation of saturation vapour pressure with temperature is the factor which causes oceanic surface temperatures at low latitudes to be limited by evaporation to values near 29 C thereby limiting tropical marine air temperatures to about the same value The substantial amount of energy involved in phase changes the latent heat governs the passage of solar energy to the atmo sphere visible solar radiation is absorbed at the Earth s surface energy is supplied to evaporate water and the latent heat is released to the atmosphere when and where condensation occurs which is often a considerable distance from the source of the moisture The infrared radiative characteristics of water vapour namely the broad vibration rotation bands typical of a triatomic molecule permit it to act as the principal agent of energy loss from the atmosphere throu h infrared radiation to space

Earth Observing System: From pattern to process, the strategy of the earth observing system ,1987 *NASA Reference Publication* ,1977 *Recent Advances in the Modeling of Hydrologic Systems* D.S Bowles,P. Enda O'Connell,2012-12-06 Modeling of the rainfall runoff process is of both scientific

and practical significance Many of the currently used mathematical models of hydrologic systems were developed a generation ago Much of the effort since then has focused on refining these models rather than on developing new models based on improved scientific understanding In the past few years however a renewed effort has been made to improve both our fundamental understanding of hydrologic processes and to exploit technological advances in computing and remote sensing It is against this background that the NATO Advanced Study Institute on Recent Advances in the Modeling of Hydrologic Systems was organized The idea for holding a NATO ASI on this topic grew out of an informal discussion between one of the co directors and Professor Francisco Nunes Correia at a previous NATO ASI held at Tucson Arizona in 1985 The Special Program Panel on Global Transport Mechanisms in the Geo Sciences of the NATO Scientific Affairs Division agreed to sponsor the ASI and an organizing committee was formed The committee comprised the co directors Professor David S Bowles U S A and Professor P Enda O Connell U K and Professor Francisco Nunes Correia Portugal Dr Donn G DeCoursey U S A and Professor Ezio Todini Italy

EOS Science Plan ,1999 Research Basins and Hydrological Planning R.Z. Xi,Wei-Zu Gu,Klaus-Peter Seiler,2004-10-14

In the 20th century water management focused on the local scale of interest In the 21st century we will be facing changes in the quantity of our water cycle The forces behind these new challenges are industrialisation population growth and an insufficiently swift response to climatic change The magnitude and distribution of global changes are not exactly predictable because we live in an ever changing environment and are faced with extreme and interacting processes which all are not yet sufficiently understood Therefore to shoulder this task hydrology should embrace more integrative and interdisciplinary approaches and achieve more flexibility in assessments and decisions To better confront this challenge catchment related solutions are more important than local solutions to satisfy the water demand of agriculture ecosystems industry and the private sector It is wise to keep in mind that the environment has a sustainable memory and our knowledge about attenuation capacities and resilience of the environment is still low

Decoding **Land Surface Processes In Atmospheric General Circulation Models**: Revealing the Captivating Potential of Verbal Expression

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