

Ocean– atmosphere interaction and climate modelling

Boris A. Kagan

CAMBRIDGE ATMOSPHERIC AND
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Ocean Atmosphere Interaction And Climate Modeling

J. T. Kiehl, V. Ramanathan



Ocean Atmosphere Interaction And Climate Modeling:

Ocean Atmosphere Interaction and Climate Modeling Boris A. Kagan, 1995-03-09 This book aims to acquaint readers with the recent advances in experimental and theoretical investigations of ocean atmosphere interactions a rapidly developing field in earth sciences Particular attention is paid to the scope and perspectives for satellite measurements and mathematical modeling Current approaches to the construction of coupled ocean atmosphere models from the simplest one dimensional to comprehensive three dimensional ones for the solution of key problems in climate theory are discussed in detail Field measurements and the results of numerical climate simulations are presented and help to explain climate variability that arises from various natural and anthropogenic factors

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Ocean-Atmosphere Interactions of Gases and Particles Peter S. Liss, Martin T. Johnson, 2013-12-18 The oceans and atmosphere interact through various processes including the transfer of momentum heat gases and particles In this book leading international experts come together to provide a state of the art account of these exchanges and their role in the Earth system with particular focus on gases and particles Chapters in the book cover i the ocean atmosphere exchange of short lived trace gases ii mechanisms and models of interfacial exchange including transfer velocity parameterisations iii ocean atmosphere exchange of the greenhouse gases carbon dioxide methane and nitrous oxide iv ocean atmosphere exchange of particles and v current and future data collection and synthesis efforts The scope of the book extends to the biogeochemical responses to emitted deposited material and interactions and feedbacks in the wider Earth system context This work constitutes a highly detailed synthesis and reference of interest to higher level university students Masters PhD and researchers in ocean atmosphere interactions and related fields Earth system science marine atmospheric biogeochemistry climate Production of this book was supported and funded by the EU COST Action 735 and coordinated by the International SOLAS Surface Ocean Lower Atmosphere Study project office

Frontiers of Climate Modeling J. T. Kiehl, V. Ramanathan, 2011-06-30 The physics and dynamics of the atmosphere and atmosphere ocean interactions provide the foundation of modern climate models upon which our understanding of the chemistry and biology of ocean and land surface processes are built Originally published in 2006 *Frontiers of Climate Modeling* captures developments in modeling the atmosphere and their implications for our understanding of climate change whether due to natural or anthropogenic

causes Emphasis is on elucidating how greenhouse gases and aerosols are altering the radiative forcing of the climate system and the sensitivity of the system to such perturbations An expert team of authors address key aspects of the atmospheric greenhouse effect clouds aerosols atmospheric radiative transfer deep convection dynamics large scale ocean dynamics stratosphere troposphere interactions and coupled ocean atmosphere model development The book is an important reference for researchers and advanced students interested in the forces driving the climate system and how they are modeled by climate scientists

Coupled Ocean-Atmosphere Models J.C.J. Nihoul,1985-07-01 The exchange of momentum heat moisture gases such as CO₂ and O₂ and salt between the atmosphere and the ocean is a phenomenon of paramount importance for the dynamics of the atmosphere and the ocean With the pressing need for reliable climate forecast e g to deal with severe food and energy problems interactive ocean atmosphere models have become one of the main objectives of geophysical fluid dynamics This volume provides the first state of the art review of interactive ocean atmosphere modelling and its application to climates The papers are by active and eminent scientists from different countries and different disciplines They provide a up to date survey of major recent discoveries and valuable recommendations for future research

Climate-Ocean Interaction M.E. Schlesinger,2012-12-06 Preface This book is the culmination of a workshop jointly organized by NATO and CEC on Climate Ocean Interaction which was held at Lady Margaret Hall Oxford University during 26 30 September 1988 The objective of the ARW was to assess the current status of research on climate ocean interaction with a major focus on the development of coupled atmosphere ocean ice models and their application in the study of past present and possible future climates This book contains 16 chapters divided into four parts Introduction Observations of the Climate of the Ocean Modelling the Atmospheric Oceanic and Sea Ice Components of the Climatic System and Simulating the Variability of Climate on Short Medium and Long Time Scales A fifth part contains the reports of the five Working Groups on Climate Observations Modelling ENSO Modelling and Prediction Climate Ocean Interaction on Time Scales of Decades to Centuries and Impact of Paleoclimatic Proxy Data on Climate Modelling Preface ix Acknowledgements I thank Howard Cattle and Neil Wells for their guidance and assistance as members of the Workshop Organizing Committee I particularly thank Michael Davey for all his efforts as Local Organizer to make the ARW a success I also thank the staff of Lady Margaret Hall Oxford University for their help with the arrangements for the ARW

Predicting Coupled Ocean-Atmosphere Modes with a Climate Modeling Hierarchy -- Final Report UCLA. Michael Ghil,IRI Andrew W. Robertson (Columbia Univ),U. of Wisconsin Sergey Kravtsov (Milwau),UC Irvine Padhraic Smyth,2006 The goal of the project was to determine midlatitude climate predictability associated with tropical extratropical interactions on interannual to interdecadal time scales Our strategy was to develop and test a hierarchy of climate models bringing together large GCM based climate models with simple fluid dynamical coupled ocean ice atmosphere models through the use of advanced probabilistic network PN models PN models were used to develop a new diagnostic methodology for analyzing coupled ocean atmosphere interactions in large climate

simulations made with the NCAR Parallel Climate Model PCM and to make these tools user friendly and available to other researchers We focused on interactions between the tropics and extratropics through atmospheric teleconnections the Hadley cell Rossby waves and nonlinear circulation regimes over both the North Atlantic and North Pacific and the ocean s thermohaline circulation THC in the Atlantic We tested the hypothesis that variations in the strength of the THC alter sea surface temperatures in the tropical Atlantic and that the latter influence the atmosphere in high latitudes through an atmospheric teleconnection feeding back onto the THC The PN model framework was used to mediate between the understanding gained with simplified primitive equations models and multi century simulations made with the PCM The project team is interdisciplinary and built on an existing synergy between atmospheric and ocean scientists at UCLA computer scientists at UCI and climate researchers at the IRI

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

Climate Models Leonard Druyan, 2012-03-02 Climate Models offers a sampling of cutting edge research contributed by an international roster of scientists The studies strive to improve our understanding of the physical environment for life on this planet Each of the 14 essays presents a description of recent advances in methodologies for computer based simulation of environmental variability Subjects range from planetary scale phenomena to regional ecology from impacts of air pollution to the factors influencing floods and heat waves The discerning reader will be rewarded with new insights concerning modern techniques for the investigation of the natural world

Seventh Conference on Ocean-Atmosphere Interaction, February 1-5, 1988, Anaheim, Calif , 1988 **Congo Basin Hydrology, Climate,**

and Biogeochemistry Raphael M. Tshimanga, Guy D. Moukandi N'kaya, Douglas Alsdorf, 2022-02-08 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

Earth's Climate Chunzai Wang, 2004-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 147 It is more than 30 years since the publication of Jacob Bjerknes groundbreaking ideas made clear the importance of ocean atmosphere interaction in the tropics It is now more than 20 years since the arrival of a massive El Niño in the fall of 1982 set off a cascade of observational and theoretical studies During the following decades the climate research community has made exceptional progress in refining our capacity to observe earth's climate and theorize about it including new satellite based and in situ monitoring systems and coupled ocean atmosphere predictive numerical models Of equal importance is the expanding scope of research which now reaches far beyond the Pacific El Niño and includes climate phenomena in other ocean basins In order to cover the now global context of ocean atmosphere interaction we have organized this monograph around five principal themes each introduced by one or more broad overview papers Theme I covers interaction and climate variability in the Pacific sector with extensive discussion of El Niño Southern Oscillation and with the possible causes and consequences of variability on both shorter and longer timescales Theme II is devoted to interaction in the Atlantic sector This basin exhibits complex behavior reflecting its geographic location between two major zones of convection as well as neighboring the tropical Pacific Theme III reviews the recent exciting progress in our understanding of climate variability in the Indian sector Theme IV addresses the interaction between the tropics and the extratropics which are linked through the presence of shallow meridional overturning cells in the ocean Finally Theme V discusses overarching issues of cross basin interaction

The El Niño-Southern Oscillation Phenomenon Edward S. Sarachik, Mark A. Cane, 2010-02-18 Many climatic extremes around the globe such as severe droughts and floods can be attributed to the periodic warming of the equatorial Pacific sea surface termed the El Niño or Southern Oscillation ENSO

Advances in our understanding of ENSO in which Edward S Sarachik and Mark A Cane have been key participants have led to marked improvements in our ability to predict its development months or seasons allowing adaptation to global impacts This book introduces basic concepts and builds to more detailed theoretical treatments Chapters on the structure and dynamics of the tropical ocean and atmosphere place ENSO in a broader observational and theoretical context Chapters on ENSO prediction past and future and impacts introduce broader implications of the phenomenon This book provides an introduction to all aspects of this most important mode of global climate variability for research workers and students of all levels in climate science oceanography and related fields Modeling, Simulation and Optimization of Fluid Dynamic Applications Armin Iske, Thomas Rung, 2023-12-13 This book describes recent collaborations combining the expertise of applied mathematicians engineers and geophysicists within a research training group RTG on Modeling Simulation and Optimization of Fluid Dynamic Applications funded by the Deutsche Forschungsgemeinschaft DFG The focus is on mathematical modeling adaptive discretization approximation strategies and shape optimization with PDEs The balanced research program is based on the guiding principle that mathematics drives applications and is inspired by applications With this leitmotif the RTG advances research in Modeling Simulation and Optimization by an interdisciplinary approach i e to stimulate fundamental education and research by highly complex applications and at the simultaneously transfer tailored mathematical methods to applied sciences The reported research involves nine projects and addresses challenging fluid dynamic problems inspired by applied sciences such as climate research meteorology energy aerospace marine engineering or medicine More fundamental research concerning analysis approximation and numerics is also covered The material represents a successful attempt to exchange research paradigms between different disciplines and thus displays a modern approach to basic research into scientifically and societally relevant contemporary problems **Fiscal Year 1996 NASA Authorization** United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics, 1995 Distributed to some depository libraries in microfiche Beyond El Niño Antonio Navarra, 2012-12-06 The interest and level of research into climate variability has risen dramatically in recent years and major breakthroughs have been achieved in the understanding and modelling of seasonal to interannual climate variability and prediction At the same time the documentation of longer term variability and its underlying mechanisms have progressed considerably Within the European Commission's Environment and Climate research programs several important projects have been supported in these areas including the Decadal and Interdecadal Climate variability Experiment DICE which forms the basis of this book Within the EC supported climate research we see an increasing importance of research into climate variability as is evidenced in the upcoming Fifth Framework Programme's Key Action on Global Change Climate and Biodiversity This is because of the obvious potential socio economic benefits from seasonal to decadal scale climate prediction and equally important for the fundamental understanding of the climate system to help improve the quality and reliability of future climate change and

mankind's current interference with it The DICE group has performed important and pioneering work and we hope this book will receive the wide distribution and recognition it deserves We welcome the contributions from distinguished researchers from US Japan and Canada to the EC's DICE group towards completing the scope of the book and as an example of international cooperation which is essential in such a high level scientific endeavor Activities ... Plans ... Geophysical Fluid Dynamics Laboratory (U.S.),1997 **Our Changing Planet** U.S. Global Change Research Program.),1990 *Natural Climate Variability on Decade-to-Century Time Scales* National Research Council,Division on Earth and Life Studies,Commission on Geosciences, Environment and Resources,Climate Research Committee,1996-09-30 This volume reflects the current state of scientific knowledge about natural climate variability on decade to century time scales It covers a wide range of relevant subjects including the characteristics of the atmosphere and ocean environments as well as the methods used to describe and analyze them such as proxy data and numerical models They clearly demonstrate the range persistence and magnitude of climate variability as represented by many different indicators Not only do natural climate variations have important socioeconomic effects but they must be better understood before possible anthropogenic effects from greenhouse gas emissions for instance can be evaluated A topical essay introduces each of the disciplines represented providing the nonscientist with a perspective on the field and linking the papers to the larger issues in climate research In its conclusions section the book evaluates progress in the different areas and makes recommendations for the direction and conduct of future climate research This book while consisting of technical papers is also accessible to the interested layperson **Encyclopedia of Natural Resources - Water and Air - Vol II** Yeqiao Wang,2014-07-23 With unprecedented attention on global change the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide A full understanding of the range of issues from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life is crucial to the process of developing solutions to this complex challenge Authored by world class scientists and scholars The Encyclopedia of Natural Resources provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life their histories current status and future trends and their societal connections economic values and management The content presents state of the art science and technology development and perspectives of resource management Written and designed with a broad audience in mind the entries clearly elucidate the issues for readers at all levels In Volume II Water includes 59 entries and Air includes 31 entries The Water entries cover topical areas such as fresh water groundwater water quality and watersheds ice and snow coastal environments and marine resources and economics The Air entries cover air pollutants atmospheric oscillation circulation patterns and atmospheric water storage as well as agroclimatology climate change and extreme events Additional topics in meteorology include acid rain drought ozone depletion water storage and more Natural resources

represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be titled an encyclopedia The Encyclopedia of Natural Resources does just that The topics covered help readers face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

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