

la modélisation du climat de la terre  
et de sa variabilité

Les Houches



Session LXVII

modeling the earth's climate  
and its variability

W.R. Holland, S. Jousaume  
and F. David

Editors

North-Holland

# Modeling The Earths Climate And Its Variability Les Houches Hardcover

**Elisabeth A. Lloyd, Eric Winsberg**



## **Modeling The Earths Climate And Its Variability Les Houches Hardcover:**

*Modeling the Earth's Climate and Its Variability* W.R. Holland, S. Joussaume, F. David, 1999-12-13 Understanding and predicting the Earth's climate system particularly climate variability and possible human induced climate change presents one of the most difficult and urgent challenges in science. Climate scientists worldwide have responded to that challenge over the past decade by creating a wide variety of ever more sophisticated climate models that are beginning to show considerable ability to replicate many aspects of the climate system. At the same time to fully understand climate change one also has to look to past climates. For this purpose five eminent scholars who span the disciplines of modeling and observation including elements of past present and future climate studies came together at this Les Houches school. They presented a systematic development of each of their respective subjects which provided a comprehensive overview of this vast and complex subject. These core lectures were supplemented by a set of shorter lectures and of seminars. *Frontiers in Decadal Climate Variability* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Ocean Studies Board, Board on Atmospheric Sciences and Climate, Committee on Frontiers in Decadal Climate Variability: A Workshop, 2016-07-22 Many factors contribute to variability in Earth's climate on a range of timescales from seasons to decades. Natural climate variability arises from two different sources: 1 internal variability from interactions among components of the climate system for example between the ocean and the atmosphere and 2 natural external forcings such as variations in the amount of radiation from the Sun. External forcings on the climate system also arise from some human activities such as the emission of greenhouse gases (GHGs) and aerosols. The climate that we experience is a combination of all of these factors. Understanding climate variability on the decadal timescale is important to decision making. Planners and policy makers want information about decadal variability in order to make decisions in a range of sectors including for infrastructure, water resources, agriculture and energy. In September 2015 the National Academies of Sciences Engineering and Medicine convened a workshop to examine variability in Earth's climate on decadal timescales defined as 10 to 30 years. During the workshop ocean and climate scientists reviewed the state of the science of decadal climate variability and its relationship to rates of human caused global warming and they explored opportunities for improvement in modeling and observations and assessing knowledge gaps. *Frontiers in Decadal Climate Variability* summarizes the presentations and discussions from the workshop. *Demystifying Climate Models* Andrew Gettelman, Richard B. Rood, 2016-04-09 This book demystifies the models we use to simulate present and future climates allowing readers to better understand how to use climate model results. In order to predict the future trajectory of the Earth's climate system simulation models are necessary. When and how do we trust climate model predictions? The book offers a framework for answering this question. It provides readers with a basic primer on climate and climate change and offers non technical explanations for how climate models are constructed why they are uncertain and what level of confidence we should place in them. It presents current

results and the key uncertainties concerning them Uncertainty is not a weakness but understanding uncertainty is a strength and a key part of using any model including climate models Case studies of how climate model output has been used and how it might be used in the future are provided The ultimate goal of this book is to promote a better understanding of the structure and uncertainties of climate models among users including scientists engineers and policymakers **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 **Climate Change and Climate Modeling** J. David Neelin,2010-12-16 Provides students with a solid foundation in climate science with which to understand global warming natural climate variations and climate models As climate models are one of our primary tools for predicting and adapting to climate change it is vital we appreciate their strengths and limitations Also key is understanding what aspects of climate science are well understood and where quantitative uncertainties arise This textbook will inform the future users of climate models and the decision makers of tomorrow by providing the depth they need while requiring no background in atmospheric science and only basic calculus and physics Developed from a course that the author teaches at UCLA material has been extensively class tested and with online resources of colour figures Powerpoint slides and problem sets this is a complete package for students across all sciences wishing to gain a solid grounding in climate science **Earth's Climate** William F. Ruddiman,2001 Earth's Climate Past and Future works as either a nonmajors introduction to Earth system science or climate change or as a majors graduate level overview of the processes and techniques in climate science Written from a

multidisciplinary perspective by a researcher instructor in the field the text summarizes the major lessons to be learned from 550 million years of climate changes as a way of evaluating the climatological impact on and by humans in this century The book also looks ahead to possible effects during the next several centuries of fossil fuel use

**Climate System Dynamics and Modelling** Hugues Goosse, 2015-08-10 This textbook presents all aspects of climate system dynamics on all timescales from the Earth's formation to modern human induced climate change It discusses the dominant feedbacks and interactions between all the components of the climate system atmosphere ocean land surface and ice sheets It addresses one of the key challenges for a course on the climate system students can come from a range of backgrounds A glossary of key terms is provided for students with little background in the climate sciences whilst instructors and students with more expertise will appreciate the book's modular nature Exercises are provided at the end of each chapter for readers to test their understanding This textbook will be invaluable for any course on climate system dynamics and modeling and will also be useful for scientists and professionals from other disciplines who want a clear introduction to the topic

*Predictability of Global and Regional Climate Variations. Final Technical Report*, 2001 This project has been concerned with the adequacy of the representation of the earth's mean climate and its variability in low resolution climate models which are typically used for climate change studies The climate models under scrutiny have included both atmosphere only models in which the lower boundary conditions of sea surface temperature SST and sea ice are specified and coupled atmosphere ocean models In particular the authors have examined the difference in the mean climate and fluctuations about the mean in an atmospheric general circulation model AGCM between the model simulation at high resolution and at moderate resolution The authors have also compared and contrasted simulations made with a very low resolution coupled ocean atmosphere general circulation model CGCM integrated for multiple centuries to those made with a more moderate resolution CGCM The AGCM integrations used in this study were performed under support from other agencies for the purpose of studying seasonal to interannual predictability They have examined these integrations with a focus on the high latitudes

**Climate Change Science: A Modern Synthesis** G. Thomas Farmer, John Cook, 2013-01-12 An introduction to the principles of climate change science with an emphasis on the empirical evidence for climate change and a warming world Additional readings are given at the end of each chapter A list of Things to Know opens each chapter Chapters are arranged so that the student is first introduced to the scientific method's examples of the use of the scientific method from other sciences drawn from the history of science with an emphasis on climate science Climate science is treated in each chapter based on the premise of global warming Chapter treatments on the atmosphere biosphere geosphere hydrosphere and anthroposphere and their inter relationships are given

*Natural Climate Variability and Global Warming* Richard W. Battarbee, Heather A. Binney, 2009-01-26 Whilst there is now overwhelming evidence that greenhouse gas pollution is becoming the dominant process responsible for global warming it is also clear that the climate system varies quite naturally on different time scales

Predicting the course of future climate change consequently requires an understanding of the natural variability of the climate system as well as the effects of human induced change. This book is concerned with our current understanding of natural climate change, its variability on decadal to centennial time scales, the extent to which climate models of different kinds simulate past variability, and the role of past climate variability in explaining changes to natural ecosystems and to human society over the later part of the Holocene. The book highlights the need to improve not only our understanding of the physical system through time but also to improve our knowledge of how people may have influenced the climate system in the past and have been influenced by it both directly and indirectly. This ground breaking text addresses predictable modification in the climate system in the context of global warming. Ideal for researchers and advanced students, it explores current thinking on natural climate change. Addresses the natural variability of the climate system in the context of global warming. Contributes substantially to the ongoing discussion on global warming. Integrates state of the art research and brings together modeling and data communities in a balanced way. Considers questions of climate change on different time scales. Natural climate variability and global warming is clearly an important book, well focused and distinctive, with fundamental things to say about Holocene science and its interface with the practical problem of global warming. It is an authoritative up to date summary and synthesis of current knowledge in this area and is attractively produced with clear colour illustrations throughout. It is a must for all university libraries and our private book collections. The Holocene 2009

*Long-Term Climatic Variations* Jean-Claude Duplessy, Marie-Therese Spyridakis, 2013-06-29 Climate is the most important component of the Earth's environment and climatic fluctuations have a strong impact on water supplies, vegetation, energy use etc. Thus our understanding of the climatic system is of utmost importance. Leading experts in the field of climate modelling and paleoclimatology present the most recent methods for reconstructing past climatic variations and for modelling the climatic system and its evolution. The first of three parts is devoted to the climatic system and the physical basis for its modelling, the second summarizes the evolution of the global atmosphere, the ocean, the continents, the biosphere, and the ice sheets during recent climatic cycles, the last part focusses on the understanding of past and future climatic changes.

**Climate System Modeling** Kevin E. Trenberth, 1992 Climate Systems Modeling presents an interdisciplinary and comprehensive study of the dynamics of the whole global system. As a comprehensive text, it will appeal to students and researchers concerned with any aspect of climatology and the study of related topics in the broad earth and environmental sciences.

**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, 1996-08-30 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

**Climate Modeling for Scientists and Engineers** John B. Drake, 2014-08-26 Climate modeling and simulation teach us about past present and future conditions of life on earth and help us understand observations about the changing atmosphere and ocean and terrestrial ecology Focusing on high end modeling and simulation of earth's climate Climate Modeling for Scientists and Engineers presents observations about the general circulations of the earth and the partial differential equations used to model the dynamics of weather and climate covers numerical methods for geophysical flows in more detail than many other texts discusses parallel algorithms and the role of high performance computing used in the simulation of weather and climate and provides over 100 pages of supplemental lectures and MATLAB exercises on an associated web page This book is intended for graduate students in science and engineering It is also useful for a broad spectrum of computational science and engineering researchers especially those who want a brief introduction to the methods and capabilities of climate models and those who use climate model results in their investigations Information on numerical methods used to solve the equations of motion and climate simulations using parallel algorithms on high performance computers challenges researchers who aim to improve the prediction of climate on decadal to century time scales

*Loose-leaf Version for Earth's Climate* William F. Ruddiman, 2013-10-01 At a time when the evidence is stronger than ever that human activity is the primary cause for global climate change William Ruddiman's breakthrough text returns in a thoroughly updated new edition It offers a clear engaging objective portrait of the current state of climate science including compelling recent findings on anthropogenic global warming and important advances in understanding past climates

Modeling Dynamic Climate Systems Walter A. Robinson, 2014-01-15      *The Climate Modelling Primer* Kendal McGuffie, Ann Henderson-Sellers, 2014-04-07 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 Fourth Edition is designed to explain the basis and mechanisms of all types of current physically based climate models A thoroughly revised and updated edition this book will assist 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 Now in full colour throughout and with the addition of cartoons to enhance student understanding the new edition of this successful textbook enables the student to tackle the difficult subject of climate modeling

**Decade-to-Century-Scale Climate Variability and Change** National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Panel on Climate Variability on Decade-to-Century Time Scales, 1998-11-24 Society today may be more vulnerable to global scale long term climate change than ever before Even without any human influence past records show that climate can be expected to continue to undergo considerable change over decades to centuries Measures for adaption and mitigation will call for policy decisions based on a sound scientific foundation Better understanding and prediction of climate variations can be achieved most efficiently through a nationally recognized dec cen science plan This book articulates the scientific issues that must be addressed to advance us efficiently toward that understanding and outlines the data collection and modeling needed

**A Brief History of the Earth's Climate** Steven Earle, 2021-10-12 I love it Earle understands the big climate picture and paints it with exceptional clarity JAMES HANSEN director Climate Science Awareness and Solutions Columbia University Earth Institute What s natural what s caused by humans and why climate change is a disaster for all A Brief History of the Earth s Climate is an accessible myth busting guide to the natural evolution of the Earth s climate over 4 6 billion years and how and why human caused global warming and climate change is different and much more dangerous Richly illustrated chapters cover the major historical climate change processes including evolution of the sun plate motions and continental collisions volcanic eruptions changes to major ocean currents Earth s orbital variations sunspot variations and short term ocean current cycles As well as recent human induced climate change and an overview of the implications of the COVID pandemic for climate change Content includes Understanding natural geological processes that shaped the climate How human impacts are now rapidly changing the climate Tipping points and the unfolding climate crisis What we can do to limit the damage to the planet and ecosystems Countering climate myths peddled by climate change science deniers A Brief History of the Earth s Climate is essential reading for everyone who is looking to understand what drives climate change counter skeptics and deniers and take action on the climate emergency

AWARDS SILVER 2022 IPPY Awards Science Climate Modelling Elisabeth A. Lloyd, Eric Winsberg, 2018-02-13 This edited collection of works by leading climate scientists and philosophers introduces readers to issues in the foundations evaluation confirmation and application of climate models It engages with important topics directly affecting public policy including the role of doubt the use of satellite data and the robustness of models Climate Modelling provides an early and significant contribution to the burgeoning Philosophy of Climate Science field that will help to shape our understanding of these topics in both philosophy and the wider scientific context It offers insight into the reasons we should believe what climate models



say about the world but addresses the issues that inform how reliable and well confirmed these models are This book will be of interest to students of climate science philosophy of science and of particular relevance to policy makers who depend on the models that forecast future states of the climate and ocean in order to make public policy decisions

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