la modélisation du climat de la terre et de sa variabilité



modeling the earth's climate and its variability

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

Editors

North-Holland

Modeling The Earths Climate And Its Variability Les Houches Hardcover

Michael Hoelscher

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 **Conference Proceedings** ,1996 **Geoscience Documentation**, 1993 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 Ni o 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 ofresearch which now reaches far beyond the Pacific El Ni o 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 Ni o 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 Natural Climate Variability on Decade-to-Century Time Scales National Research Council, Division on interaction 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 Frontiers in Decadal Climate Variability National Academies of Sciences, Engineering, and interested layperson 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, 2016-08-22 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 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 **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 Decade-to-Century-Scale Climate Variability and Change Panel on Climate Variability on Decade-to-Century Time Scales, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1998-12-08 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 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

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