

3 TYPES OF UNCERTAINTY

UNCERTAINTY IN CLIMATE MODELS

1

MODEL UNCERTAINTY

Model uncertainty stems from inter-model and intra-model variability. Inter-model variability is due to each GCM yielding different projections based on their assumptions when provided with the same initial conditions. While intra-model variability is when a single climate model may be provided the same initial information to begin, the complex nature of how the model generates output can lead to one run (set of results) being different from the next.

2

SCENARIO UNCERTAINTY

Models to forecast future climate require estimates of future concentrations of GHGs from human sources. Projecting levels of future GHG emissions requires a set of assumptions about emerging socio-economic circumstances: future changes in population, economic production, energy use, land use and technology. Since these circumstances can change dramatically and unpredictably, GHG-emission scenarios span a large range.

3

INTERNAL VARIABILITY

Internal climate variability (ICV) emerges in response to interactions and feedback among internal components of the climate system. ICV can be observed at the global scale but is most apparent at the regional scale. It matters most in the short term (i.e., weather to seasonal scales), while at longer timescales (decades to centuries), it becomes less relevant as the climate evolves away from the initial conditions.

Climate Of Uncertainty

Geoffrey M. Heal, Bengt Kriström



Climate Of Uncertainty:

The Human Impact of Climate Uncertainty W. J. Maunders, 2019-10-28 Originally published in 1989 this book provides an overview of the economic dimensions of climate and human activities and considers how the variable nature of the atmosphere must be accepted as an integral part of the management package It discusses how climatic repercussions can hold major importance for international politics particularly in the light of the impacts of climatic changes induced by greenhouse gases

Climate of Uncertainty William F. Stewart, 2010 Examines the major questions of today global warming renewable energy expanding populations and sustainability Without taking sides presents factual information in a clear and accessible manner Provided by publisher

Managing Water Resources in the West Under Conditions of Climate Uncertainty National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Climate Uncertainty and Water Resources Management, 1991-02-01 The question of whether the earth's climate is changing in some significant human induced way remains a matter of much debate But the fact that climate is variable over time is well known These two elements of climatic uncertainty affect water resources planning and management in the American West *Managing Water Resources in the West Under Conditions of Climate Uncertainty* examines the scientific basis for predictions of climate change the implications of climate uncertainty for water resources management and the management options available for responding to climate variability and potential climate change

Confronting Climate Uncertainty in Water Resources Planning and Project Design Patrick A. Ray, Casey M. Brown, 2015-08-19 *Confronting Climate Uncertainty in Water Resources Planning and Project Design* describes an approach to facing two fundamental and unavoidable issues brought about by climate change uncertainty in water resources planning and project design The first is a risk assessment problem The second relates to risk management This book provides background on the risks relevant in water systems planning the different approaches to scenario definition in water system planning and an introduction to the decision scaling methodology upon which the decision tree is based The decision tree is described as a scientifically defensible repeatable direct and clear method for demonstrating the robustness of a project to climate change While applicable to all water resources projects it allocates effort to projects in a way that is consistent with their potential sensitivity to climate risk The process was designed to be hierarchical with different stages or phases of analysis triggered based on the findings of the previous phase An application example is provided followed by a descriptions of some of the tools available for decision making under uncertainty and methods available for climate risk management The tool was designed for the World Bank but can be applicable in other scenarios where similar challenges arise

Climate Uncertainty and Risk Judith Curry, 2023-06-06 World leaders have made a forceful statement that climate change is the greatest challenge facing humanity in the 21st century However little progress has been made in implementing policies to address climate change In *Climate Uncertainty and Risk* eminent climate scientist Judith Curry shows how we can break this

gridlock This book helps us rethink the climate change problem the risks we are facing and how we can respond to these challenges Understanding the deep uncertainty surrounding the climate change problem helps us to better assess the risks This book shows how uncertainty and disagreement can be part of the decision making process It provides a road map for formulating pragmatic solutions Climate Uncertainty and Risk is essential reading for those concerned about the environment professionals dealing with climate change and our national leaders

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Confronting Climate Uncertainty in Water Resources Planning and Project Design Patrick A. Ray, 2015 *The Uncertainty Business* W. J. Maunder, 1986 [Managing Water Resources in the West Under Conditions of Climate Uncertainty](#) National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Climate Uncertainty and Water Resources Management, 1991-02-01 The question of whether the earth's climate is changing in some significant human induced way remains a matter of much debate But the fact that climate is variable over time is well known These two elements of climatic uncertainty affect water resources planning and management in the American West Managing Water Resources in the West Under Conditions of Climate Uncertainty examines the scientific basis for predictions of climate change the implications of climate uncertainty for water resources management and the management options available for responding to climate variability and potential climate change

Uncertainty and Climate Change Geoffrey M. Heal, Bengt Kriström, 2011 Uncertainty is pervasive in analysis of climate change How should economists allow for this And how have they allowed for it This paper reviews both of these questions

Climate Change and Policy Gabriele Gramelsberger, Johann Feichter, 2011-03-30 The debate on how mankind should respond to climate change is diverse as the appropriate strategy depends on global as well as local circumstances As scientists are denied the possibility of conducting experiments with the real climate only climate models can give insights into man induced climate change by experimenting with digital climates under varying conditions and by extrapolating past and future states into the future But the nature of models is a purely representational one A model is good if it is believed to represent the relevant processes of a natural system well However a model and its results in particular in the case of climate models which interconnect countless hypotheses is only to some extent testable although an advanced

infrastructure of evaluation strategies has been developed involving strategies of model intercomparison ensemble prognoses uncertainty metrics on the system and component levels The complexity of climate models goes hand in hand with uncertainties but uncertainty is in conflict with socio political expectations However certain predictions belong to the realm of desires and ideals rather than to applied science Today s attempt to define and classify uncertainty in terms of likelihood and confidence reflect this awareness of uncertainty as an integral part of human knowledge in particular on knowledge about possible future developments The contributions in this book give a first hand insight into scientific strategies in dealing with uncertainty by using simulation models and into social political and economical requirements in future projections on climate change Do these strategies and requirements meet each other or fail The debate on how mankind should respond to climate change is diverse as the appropriate strategy depends on global as well as local circumstances As scientists are denied the possibility of conducting experiments with the real climate only climate models can give insights into man induced climate change by experimenting with digital climates under varying conditions and by extrapolating past and future states into the future But the nature of models is a purely representational one A model is good if it is believed to represent the relevant processes of a natural system well However a model and its results in particular in the case of climate models which interconnect countless hypotheses is only to some extent testable although an advanced infrastructure of evaluation strategies has been developed involving strategies of model intercomparison ensemble prognoses uncertainty metrics on the system and component levels The complexity of climate models goes hand in hand with uncertainties but uncertainty is in conflict with socio political expectations However certain predictions belong to the realm of desires and ideals rather than to applied science Today s attempt to define and classify uncertainty in terms of likelihood and confidence reflect this awareness of uncertainty as an integral part of human knowledge in particular on knowledge about possible future developments The contributions in this book give a first hand insight into scientific strategies in dealing with uncertainty by using simulation models and into social political and economical requirements in future projections on climate change Do these strategies and requirements meet each other or fail Gabriele Gramelsberger is Principal Investigator of the Collaborative Research Project is Principal Investigator of the Collaborative Research Project The Politics of Climate Change and Uncertainty in India Lyla Mehta,Hans Nicolai Adam,Shilpi Srivastava,2021-12-24 This book brings together diverse perspectives concerning uncertainty and climate change in India Uncertainty is a key factor shaping climate and environmental policy at international national and local levels Climate change and events such as cyclones floods droughts and changing rainfall patterns create uncertainties that planners resource managers and local populations are regularly confronted with In this context uncertainty has emerged as a wicked problem for scientists and policymakers resulting in highly debated and disputed decision making The book focuses on India one of the most climatically vulnerable countries in the world where there are stark socio economic inequalities in addition to diverse geographic and climatic settings Based on

empirical research it covers case studies from coastal Mumbai to dryland Kutch and the Sundarbans delta in West Bengal. These localities offer ecological contrasts: rural/urban diversity, varied exposure to different climate events and diverse state and official responses. The book unpacks the diverse discourses, practices and politics of uncertainty and demonstrates profound differences through which the above, middle and below understand and experience climate change and uncertainty. It also makes a case for bringing together diverse knowledges and approaches to understand and embrace climate-related uncertainties in order to facilitate transformative change. Appealing to a broad professional and student audience, the book draws on wide-ranging theoretical and conceptual approaches from climate science, historical analysis, science, technology and society studies, development studies and environmental studies. By looking at the intersection between local and diverse understandings of climate change and uncertainty with politics, culture, history and ecology, the book argues for plural and socially just ways to tackle climate change in India and beyond. The Open Access version of this book is available at <http://www.taylorfrancis.com/books/e/9781003257585> has been made available under a Creative Commons Attribution-NonCommercial-No Derivatives 4.0 license.

Climate Policy Uncertainty and Investment Risk William Blyth, Ming Yang, Richard Bradley, International Energy Agency, 2007. This publication examines how uncertainty in climate change policy may affect investment behaviour in the power sector and how the costs of transition to a low carbon economy may be addressed. For power companies where capital stock is intensive and long-lived, those risks rank among the biggest and can create an incentive to delay investment. The analysis shows that the risk premiums of climate change uncertainty can add 40 per cent of construction costs of the plant for power investors and 10 per cent of price surcharges for the electricity end users. It also looks at the sensitivity of different power sector investment decisions to different risks and considers the implications for policy development and design.

Climate Change in the Media James Painter, 2019. Recent research has shown that the journalistic portrayal of the problems of climate change as risks rather than uncertainties can create a stronger response from the public in terms of engagement and understanding. Understanding the concepts of risk and uncertainty and how to communicate them is a hotly debated issue across the scientific management and policy-making communities. In this book, James Painter analyses how the international media present the two issues of risk and uncertainty. He focuses on the coverage of recent projections of global temperatures and of the melting ice of the Arctic Sea and includes six countries: Australia, France, India, Norway, the UK and the USA. Provided by publisher.

Climate Uncertainty and Implications for U.S. State-level Risk Assessment Through 2050, 2009. Decisions for climate policy will need to take place in advance of climate science resolving all relevant uncertainties. Further, if the concern of policy is to reduce risk, then the best estimate of climate change impacts may not be so important as the currently understood uncertainty associated with realizable conditions having high consequence. This study focuses on one of the most uncertain aspects of future climate change: precipitation, to understand the implications of uncertainty on risk and the near-term justification for interventions to

mitigate the course of climate change We show that the mean risk of damage to the economy from climate change at the national level is on the order of one trillion dollars over the next 40 years with employment impacts of nearly 7 million labor years At a 1% exceedance probability the impact is over twice the mean risk value Impacts at the level of individual U S states are then typically in the multiple tens of billions dollar range with employment losses exceeding hundreds of thousands of labor years We used results of the Intergovernmental Panel on Climate Change s IPCC Fourth Assessment Report 4 AR4 climate model ensemble as the referent for climate uncertainty over the next 40 years mapped the simulated weather hydrologically to the county level for determining the physical consequence to economic activity at the state level and then performed a detailed seventy industry analysis of economic impact among the interacting lower 48 states We determined industry GDP and employment impacts at the state level as well as interstate population migration effect on personal income and the consequences for the U S trade balance

Climate Change Frank P. Incropera, **Completing the Forecast** National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Estimating and Communicating Uncertainty in Weather and Climate Forecasts, 2006-10-09 Uncertainty is a fundamental characteristic of weather seasonal climate and hydrological prediction and no forecast is complete without a description of its uncertainty Effective communication of uncertainty helps people better understand the likelihood of a particular event and improves their ability to make decisions based on the forecast Nonetheless for decades users of these forecasts have been conditioned to receive incomplete information about uncertainty They have become used to single valued deterministic forecasts e g the high temperature will be 70 degrees Fahrenheit 9 days from now and applied their own experience in determining how much confidence to place in the forecast Most forecast products from the public and private sectors including those from the National Oceanographic and Atmospheric Administration s National Weather Service continue this deterministic legacy Fortunately the National Weather Service and others in the prediction community have recognized the need to view uncertainty as a fundamental part of forecasts By partnering with other segments of the community to understand user needs generate relevant and rich informational products and utilize effective communication vehicles the National Weather Service can take a leading role in the transition to widespread effective incorporation of uncertainty information into predictions Completing the Forecast makes recommendations to the National Weather Service and the broader prediction community on how to make this transition

The Contribution of Economics to the Analysis of Climate Change and Uncertainty Sonja Peterson, 2004 *Extremes in a Changing Climate* Amir AghaKouchak, David Easterling, Kuolin Hsu, Siegfried Schubert, Soroosh Sorooshian, 2012-10-24 This book provides a collection of the state of the art methodologies and approaches suggested for detecting extremes trend analysis accounting for nonstationarities and uncertainties associated with extreme value analysis in a changing climate This volume is designed so that it can be used as the primary reference on the available methodologies for analysis of climate extremes Furthermore the book addresses

current hydrometeorologic global data sets and their applications for global scale analysis of extremes While the main objective is to deliver recent theoretical concepts several case studies on extreme climate conditions are provided Audience The book is suitable for teaching in graduate courses in the disciplines of Civil and Environmental Engineering Earth System Science Meteorology and Atmospheric Sciences **Assessing the Near-term Risk of Climate Uncertainty** ,2010 Policy makers will most likely need to make decisions about climate policy before climate scientists have resolved all relevant uncertainties about the impacts of climate change This study demonstrates a risk assessment methodology for evaluating uncertain future climatic conditions We estimate the impacts of climate change on U S state and national level economic activity from 2010 to 2050 To understand the implications of uncertainty on risk and to provide a near term rationale for policy interventions to mitigate the course of climate change we focus on precipitation one of the most uncertain aspects of future climate change We use results of the climate model ensemble from the Intergovernmental Panel on Climate Change s IPCC Fourth Assessment Report 4 AR4 as a proxy for representing climate uncertainty over the next 40 years map the simulated weather from the climate models hydrologically to the county level to determine the physical consequences on economic activity at the state level and perform a detailed 70 industry analysis of economic impacts among the interacting lower 48 states We determine the industry level contribution to the gross domestic product and employment impacts at the state level as well as interstate population migration effects on personal income and consequences for the U S trade balance We show that the mean or average risk of damage to the U S economy from climate change at the national level is on the order of 1 trillion over the next 40 years with losses in employment equivalent to nearly 7 million full time jobs

The Enigmatic Realm of **Climate Of Uncertainty**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Climate Of Uncertainty** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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