

NATIONAL RESEARCH COUNCIL



**MAKING
CLIMATE
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MATTER**

Making Climate Forecasts Matter

National Research Council, Division of Behavioral and Social Sciences and Education, Board on Environmental Change and Society, Commission on Behavioral and Social Sciences and Education, Panel on the Human Dimensions of Seasonal-to-Interannual Climate Variability

Making Climate Forecasts Matter:

Making Climate Forecasts Matter National Research Council, Division of Behavioral and Social Sciences and Education, Board on Environmental Change and Society, Commission on Behavioral and Social Sciences and Education, Panel on the Human Dimensions of Seasonal-to-Interannual Climate Variability, 1999-05-27 El Niño has been with us for centuries but now we can forecast it and thus can prepare far in advance for the extreme climatic events it brings. The emerging ability to forecast climate may be of tremendous value to humanity if we learn how to use the information well. How does society cope with seasonal to interannual climatic variations? How have climate forecasts been used and how useful have they been? What kinds of forecast information are needed? Who is likely to benefit from forecasting skill? What are the benefits of better forecasting? This book reviews what we know about these and other questions and identifies research directions toward more useful seasonal to interannual climate forecasts. In approaching their recommendations, the panel explores vulnerability of human activities to climate. State of the science of climate forecasting. How societies coevolved with their climates and cope with variations in climate. How climate information should be disseminated to achieve the best response. How we can use forecasting to better manage the human consequences of climate change.

Seasonal Climate: Forecasting and Managing Risk Alberto Troccoli, Mike Harrison, David L.T. Anderson, Simon J. Mason, 2008-02-22 Originally formed around a set of lectures presented at a NATO Advanced Study Institute ASI, this book has grown to become organized and presented rather more as a textbook than as a standard collection of proceedings. This therefore is the first unified reference textbook in seasonal to interannual climate predictions and their practical uses. Written by some of the world's leading experts, the book covers a rapidly developing science of prime social concern.

Knowledge-Action Systems for Seasonal to Interannual Climate Forecasting National Research Council, Policy and Global Affairs, Roundtable on Science and Technology for Sustainability, James Buizer, David W. Cash, 2005-01-21 The National Academies Roundtable on Science and Technology for Sustainability hosted a workshop Knowledge Action Systems for Seasonal to Interannual Climate Forecasting in 2004 to discover and distill general lessons about the design of effective systems for linking knowledge with action from the last decade's experience with the production and application of seasonal to interannual climate forecasts. Workshop participants described lessons they had learned based on their experiences developing applying and using decision support systems in the United States, Columbia, Brazil, and Australia. Some of the key lessons discussed as characterized by David Cash and James Buizer were that effective knowledge action systems define and frame the problem to be addressed via collaboration between knowledge users and knowledge producers; tend to be end-to-end systems that link user needs to basic scientific findings and observations; are often anchored in boundary organizations that act as intermediaries between nodes in the system; most notably between scientists and decision makers; feature flexible processes and institutions to be responsive to what is learned; use funding strategies tailored to the dual public-private character of such systems; and require people who can work across

disciplines issue areas and the knowledge action interface **Fair Weather** National Research Council, Division on Earth and Life Studies, Computer Science and Telecommunications Board, Board on Atmospheric Sciences and Climate, Board on Earth Sciences and Resources, Committee on Geophysical and Environmental Data, Committee on Partnerships in Weather and Climate Services, 2003-05-14 Decades of evolving U S policy have led to three sectors providing weather services NOAA primarily the National Weather Service NWS academic institutions and private companies This three sector system has produced a scope and diversity of weather services in the United States second to none However rapid scientific and technological change is changing the capabilities of the sectors and creating occasional friction Fair Weather Effective Partnerships in Weather and Climate Services examines the roles of the three sectors in providing weather and climate services the barriers to interaction among the sectors and the impact of scientific and technological advances on the weather enterprise Readers from all three sectors will be interested in the analysis and recommendations provided in Fair Weather

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, 2006-11-09 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 **Proceedings of the International Forum on Climate Prediction, Agriculture and Development** International Research Institute for Climate Prediction, 2000

Connecting science, policy, and decision-making: , **Climate Prediction and Agriculture** Mannava VK Sivakumar, James Hansen, 2007-05-26 Improved adaptation of food production particularly in areas where climate variability is large holds the key to improving food security for human populations Increasing climate knowledge and improved prediction capabilities facilitate the development of relevant climate information and prediction products for applications in

agriculture to reduce the negative impacts due to climate variations and to enhance planning activities based on the developing capacity of climate science This book based on an International Workshop held in Geneva in 2005 reviews the advances made so far in seasonal climate predictions and their applications for management and decision making in agriculture and identifies the challenges to be addressed in the next 5 to 10 years to further enhance operational applications of climate predictions in agriculture especially in the developing countries **Proceedings of the NOAA Human Dimensions of Global Change Research Program's Principal Investigators Meeting: October 23-25, 2002 ,**

Advancing the Science of Climate Change National Research Council (U.S.). Board on Atmospheric Sciences and Climate,2010-12-24 What we know about climate change A new era of climate change research Recommendations Part I 1 Introduction Science for understanding and responding to climate change 2 What we know about climate change and its interactions with people and ecosystems 3 A new era of climate change research 4 Integrative themes for climate change research 5 Recommendations for meeting the challenge of climate change research Part II Technical chapters 6 Changes in the climate system 7 Sea level rise and the coastal environment 8 Freshwater resources 9 Ecosystems ecosystem services and biodiversity 10 Agriculture fisheries and food production 11 Public health 12 Cities and the built environment 13 Transportation 14 Energy supply and use 15 Solar radiation management 16 National and human security 17 Designing implementing and evaluating climate policies References Appendixes **Climate Fluctuations and Improved Climate Information in International Grain Markets** Daniel George Hallstrom,1999 Climate Change Communication Daniel James Scott,Canada. Environment Canada,University of Waterloo,2000 Proceedings of a conference that provided a foundation to begin addressing matters related to communicating the climate change issue in order to raise awareness confer understanding and motivate action Presentations are organized under the following themes climate change perceptions among scientists influences on public understanding of climate change organizational roles in communicating about climate change national climate change perceptions among the public assessment of media representations of climate change promotion of community action stakeholder framing of climate change communication and the science policy interface lessons for civic engagement from other participatory processes social marketing strategies community based communication strategies climate change education through science fiction climate change curriculum development values and responsibility scenarios as communication tools engaging youth linking climate change knowledge stakeholder engagement in the agricultural sector motivating change developing an international climate change communication network communication of natural variability the role of libraries and climate change from an Inuit perspective The final section includes summaries of conference workshops public forums and poster papers Climatic Teleconnections for Influencing California Reservoir Operations Levi Daniel Brekke,2003 Proceedings of the First International Workshop on Climate, Tourism and Recreation ,2001 *Australian Journal of Experimental Agriculture* ,2007 *Immunoregulation* Royal Society

(Great Britain). Discussion Meeting,2005 Australian Journal of Agricultural Research ,2007 **Ecosystems and Human Well-Being** Kanchan Ratna Chopra,2005-12-14 With the knowledge of possible outcomes what kind of actions should we take The Millennium Ecosystem Assessment scored 74 response options for dealing with declines in ecosystem services and biodiversity and managing drivers such as climate change and nutrient loading This third volume in the MA series analyzes the track record of past policies and the potential of new ones The challenge of reversing the degradation of ecosystems while meeting increasing demands for their services can be met only with significant policy and institutional changes However a difficult set of obstacles stand in the way Policy makers must keep in mind that there are both trade offs and synergies between human well being ecosystems and ecosystem services and that decisions regarding these tradeoffs are difficult and often contentious The Responses volume ultimately establishes which policy options have the greatest chance to overcome the obstacles and generate positive outcomes It will serve as an invaluable guide to the creation of stronger policy frameworks for the future Anthropological Perspectives and Policy Implications of Climate Change Research ,2001

Global Environmental Assessments Ronald Bruce Mitchell,2006 A comparative analysis of global environmental assessments shows the importance of policy salience scientific credibility and social and political legitimacy in determining the influence of scientific assessments on global environmental policy

Unveiling the Magic of Words: A Overview of "**Making Climate Forecasts Matter**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Making Climate Forecasts Matter**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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