

REVIEW OF THE U.S.
CLIVAR
PROJECT OFFICE

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Review Of The Us Clivar Project Office

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Review Of The Us Clivar Project Office:

Review of the U.S. CLIVAR Project Office National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee to Review the U.S. Climate Variability and Predictability (CLIVAR) Project Office, 2005-01-16 A growing appreciation for how variations in climate affect society and the environment has increased the demand for fast and accurate predictions of climate variability The Climate Variability and Predictability CLIVAR program established internationally in 1995 and expanded to include a U S component in 1998 focuses on improving understanding and skill in predicting climate variability on seasonal to centennial time scales This report evaluates the performance of the U S CLIVAR Project Office PO in fulfilling its charge from supporting agencies The report concludes that the project office is vital for coordinating US CLIVAR activities and is effective despite limited resources It also provides suggestions for enhancing the communications from and visibility of US CLIVAR activities and for developing strategic directions for the future

Assessment of Intraseasonal to Interannual Climate Prediction and Predictability National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Assessment of Intraseasonal to Interannual Climate Prediction and Predictability, 2010-10-08 More accurate forecasts of climate conditions over time periods of weeks to a few years could help people plan agricultural activities mitigate drought and manage energy resources amongst other activities however current forecast systems have limited ability on these time scales Models for such climate forecasts must take into account complex interactions among the ocean atmosphere and land surface Such processes can be difficult to represent realistically To improve the quality of forecasts this book makes recommendations about the development of the tools used in forecasting and about specific research goals for improving understanding of sources of predictability To improve the accessibility of these forecasts to decision makers and researchers this book also suggests best practices to improve how forecasts are made and disseminated

Comments on Catalyzing U.S. World Climate Research Programme (WCRP) Activities Commission on Geosciences, Environment and Resources, Board on Atmospheric Sciences and Climate, Commission on Geosciences, Environment, and Resources, Climate Research Committee, National Research Council, 2001-01-01 The purpose of this letter report is to state the findings and recommendations of the Climate Research Committee's CRC brief review of the U S contributions to the World Climate Research Programme WCRP The primary objectives of the review were to 1 assess the coordination national international and project to project of the U S scientific contributions to the WCRP 2 identify potential science gaps and or redundancies in the U S contributions to the WCRP and 3 identify existing or emerging issues and needs that might require more in depth attention Due to the limited time available for this review the CRC focused on the first of these objectives

Energy and Climate Policy Act and the Climate Change Energy Policy Response Act United States. Congress. Senate. Committee on Energy and Natural Resources, 2000

The Anthropocene as a Geological Time Unit Jan Zalasiewicz, Colin N.

Waters, Mark Williams, Colin P. Summerhayes, 2019-03-07 Reviews the evidence underpinning the Anthropocene as a geological epoch written by the Anthropocene Working Group investigating it The book discusses ongoing changes to the Earth system within the context of deep geological time allowing a comparison between the global transition taking place today with major transitions in Earth history

U.S. Arctic Opportunities United States. Congress. Senate. Committee on Energy and Natural Resources, 2015

Review of the GAPP Science and Implementation Plan National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee to Review the GAPP Science and Implementation Plan, 2005-11-27 Water managers rely on predicting changes in the hydrologic cycle on seasonal to interannual time frames to prepare for water resource needs Seasonal to interannual predictability of the hydrologic cycle is related to local and remote influences involving land processes and ocean processes such as the El Niño Southern Oscillation Although advances in understanding land surface processes show promise in improving climate prediction incorporating this information into water management decision processes remains a challenge since current models provide only limited information for predictions on seasonal and longer time scales To address these needs the Global Energy and Water Cycle Experiment GEWEX Americas Prediction Project GAPP was established in 2001 to improve how changes in water resources are predicted on intraseasonal to interannual time scales for the continental United States The GAPP program has developed a science and implementation plan to guide its science activities which describes strategies for improving prediction and decision support in the hydrologic sciences This report by the National Research Council provides a review of the GAPP Science and Implementation Plan outlining suggestions to strengthen the plan and the GAPP program overall

Origins and predictability of the intraseasonal to interannual variabilities of regional climate Zhiwei Zhu, Pang-chi Hsu, Ruifen Zhan, Lei Zhang, Bin Yu, 2023-01-13

Improving the Scientific Foundation for Atmosphere-Land-Ocean Simulations National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Challenges in Representing Physical Processes in Coupled Atmosphere-Land-Ocean Models, 2005-05-12 The National Academies Board on Atmospheric Sciences and Climate BASC held a workshop to explore and evaluate current efforts to model physical processes of coupled atmosphere land ocean A L O models Numerical models of the atmosphere and ocean are central to weather prediction research and education Although great strides have been made over the past few decades in understanding the atmosphere and ocean modeling capabilities and numerical A L O simulations some unresolved processes in the models do not adequately represent knowledge of the underlying physics Moreover there is evidence that further progress in numerical simulations is being impeded by the slow pace of improvement in the representation of key physical processes in the models and the fact that geophysical flow models are not receiving the attention needed to make these tools more useful and accurate These models often are used to predict future events so it is imperative that their underlying physical processes be represented as robustly as possible During the workshop the

parameterization of physical processes in A L O models was addressed including associated errors testing and efforts to improve the use of parameterizations Participants also examined intellectual and scientific challenges in modeling and highlighted the idea that some of the key impediments to progress in representing physical processes are primarily cultural in nature

Abrupt Impacts of Climate Change National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Understanding and Monitoring Abrupt Climate Change and Its Impacts, 2013-12-31 Climate is changing forced out of the range of the past million years by levels of carbon dioxide and other greenhouse gases not seen in the Earth's atmosphere for a very very long time Lacking action by the world's nations it is clear that the planet will be warmer sea level will rise and patterns of rainfall will change But the future is also partly uncertain there is considerable uncertainty about how we will arrive at that different climate Will the changes be gradual allowing natural systems and societal infrastructure to adjust in a timely fashion Or will some of the changes be more abrupt crossing some threshold or tipping point to change so fast that the time between when a problem is recognized and when action is required shrinks to the point where orderly adaptation is not possible

Abrupt Impacts of Climate Change is an updated look at the issue of abrupt climate change and its potential impacts This study differs from previous treatments of abrupt changes by focusing on abrupt climate changes and also abrupt climate impacts that have the potential to severely affect the physical climate system natural systems or human systems often affecting multiple interconnected areas of concern The primary timescale of concern is years to decades A key characteristic of these changes is that they can come faster than expected planned or budgeted for forcing more reactive rather than proactive modes of behavior

Abrupt Impacts of Climate Change summarizes the state of our knowledge about potential abrupt changes and abrupt climate impacts and categorizes changes that are already occurring have a high probability of occurrence or are unlikely to occur Because of the substantial risks to society and nature posed by abrupt changes this report recommends the development of an Abrupt Change Early Warning System that would allow for the prediction and possible mitigation of such changes before their societal impacts are severe Identifying key vulnerabilities can help guide efforts to increase resiliency and avoid large damages from abrupt change in the climate system or in abrupt impacts of gradual changes in the climate system and facilitate more informed decisions on the proper balance between mitigation and adaptation Although there is still much to learn about abrupt climate change and abrupt climate impacts to willfully ignore the threat of abrupt change could lead to more costs loss of life suffering and environmental degradation

Abrupt Impacts of Climate Change makes the case that the time is here to be serious about the threat of tipping points so as to better anticipate and prepare ourselves for the inevitable surprises

Our Changing Planet Climate Change Science Program (U.S.), 2006 **Our Changing Planet**, 2005 **Our Changing Planet** U.S. Global Change Research Program, 2006 **Exchanges**, 2008 **Annali di geofisica**, 2006 **Report of the ... Session of the Joint Scientific Committee** Joint Scientific Committee for the World Climate Research Programme, and

the Global Atmospheric Research Programme. Session,2004 *U.S. WOCE Implementation Report* ,1989 **U.S. WOCE Report** ,1996 Review of the Draft Climate Science Special Report National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Atmospheric Sciences and Climate,Committee to Review the Draft Climate Science Special Report,2017-06-30 The United States Global Change Research Program USGCRP is moving towards a sustained assessment process that allows for more fluid and consistent integration of scientific knowledge into the mandated quadrennial National Climate Assessment As part of this process the USGCRP is developing the Climate Science Special Report CSSR a technical report that details the current state of science relating to climate change and its physical impacts The CSSR is intended to focus on climate change in the United States and to inform future USGCRP products Review of the Draft Climate Science Special Report assesses whether the draft CSSR accurately presents the scientific literature in an understandable transparent and traceable way whether the CSSR authors handled the data analyses and statistical approaches in an appropriate manner and the effectiveness of the report in conveying the information clearly for the intended audience This report provides recommendations for how the draft CSSR could be strengthened **CLIVAR, a Study of Climate Variability and Predictability** CLIVAR Scientific Steering Group,World Climate Research Programme,1995

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