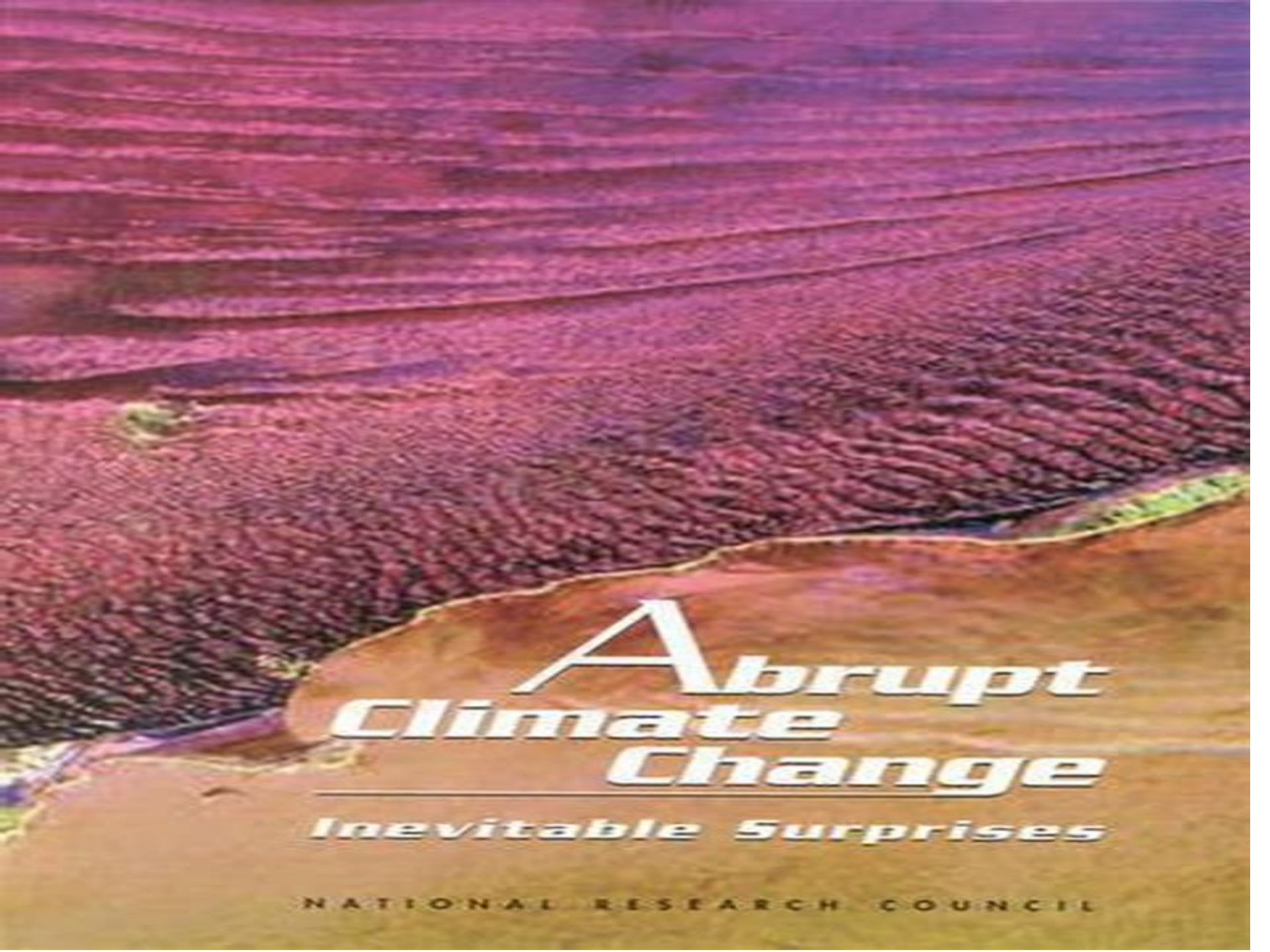


An aerial photograph of a dry, cracked landscape. The ground is covered in a dense network of brown and reddish-brown cracks, creating a textured, almost cellular appearance. A large, irregular brown patch is visible in the foreground, partially obscuring the cracked ground. The overall color palette is dominated by earthy browns and reds, suggesting a severe drought or desert environment.

Abrupt Climate Change

Inevitable Surprises

NATIONAL RESEARCH COUNCIL

Abrupt Climate Change Inevitable Surprises

Holly Lawford-Smith



Abrupt Climate Change Inevitable Surprises:

Abrupt Climate Change National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Polar Research Board, Ocean Studies Board, Committee on Abrupt Climate Change, 2002-04-23 The climate record for the past 100 000 years clearly indicates that the climate system has undergone periodic and often extreme shifts sometimes in as little as a decade or less The causes of abrupt climate changes have not been clearly established but the triggering of events is likely to be the result of multiple natural processes Abrupt climate changes of the magnitude seen in the past would have far reaching implications for human society and ecosystems including major impacts on energy consumption and water supply demands Could such a change happen again Are human activities exacerbating the likelihood of abrupt climate change What are the potential societal consequences of such a change Abrupt Climate Change Inevitable Surprises looks at the current scientific evidence and theoretical understanding to describe what is currently known about abrupt climate change including patterns and magnitudes mechanisms and probability of occurrence It identifies critical knowledge gaps concerning the potential for future abrupt changes including those aspects of change most important to society and economies and outlines a research strategy to close those gaps Based on the best and most current research available this book surveys the history of climate change and makes a series of specific recommendations for the future

Abrupt Climate Change, 2004 **Abrupt Climate Change** National Research Counsel, 2001 Inevitable Surprises Peter Schwartz, 2004-05-24 The world we live in today is more volatile than ever The security of free nations is threatened by rogue states the global economy is in flux and the rapid advance of technology forces constant reevaluation of our society With so many powerful forces at work and seemingly unpredictable events occurring to many the future seems dark and its possibilities frightening Peter Schwartz disagrees A world renowned visionary in the field of scenario planning Schwartz's startling and accurate predictions have been employed by government agencies and major corporations for more than twenty five years He argues that the future is foreseeable and that by examining the dynamics at work today we can predict the inevitable surprises of tomorrow Timely and thought provoking Inevitable Surprises is a book that no one with an interest in business or the future of our society can afford to miss 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.

Abrupt Climate Change Research Act United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 2004

The Gareloi Solution Donald E. Phillipson, 2016-03-17

It is 2032 and shockingly the threat of a food shortage hangs over the United States. Crop yields are down, and if the trend continues, the country could be facing a disastrous reduction in food supplies. With this in mind, the president of the United States takes immediate action, creating a small team of scientists, diplomats, and military personnel overseen by the vice president. This team's mission is to determine what is causing the crop failures and what might be done to prevent them. As they uncover secret information from an obscure French research project and strange trends observed in US labs, their worst fears are confirmed: crops are dwindling, not just in the United States but worldwide, due to odd weather patterns that might signal a shift in global climates. In order to stave off disaster, the team devises a bizarre and difficult plan relying on the use of Cold War relics. Now they're in a race against time: can they save the world's food supply, or is humanity about to experience a famine that affects the entire planet?

In this science fiction novel, a specialized governmental scientific team works to develop and enact a plan designed to prevent a global food shortage that threatens humankind.

An abrupt climate change scenario and its implications for United States national security, **Climate Change and Vulnerable Societies** United States. Congress. House. Committee on Foreign Affairs. Subcommittee on Asia, the Pacific, and the Global Environment, 2008

Global Justice Holly Lawford-Smith, 2017-05-15 This volume brings together a range of influential essays by distinguished philosophers and political theorists on the issue of global justice. Global justice concerns the search for ethical norms that should govern interactions between people, states, corporations, and other agents acting in the global arena, as well as the design of social institutions that link them together. This volume includes articles that engage with major theoretical questions such as the applicability of the ideals of social and economic equality to the global sphere, the degree of justified partiality to compatriots, and the nature and extent of the responsibilities of the affluent to address global poverty and other hardships abroad. It also features articles that bring the theoretical insights of global justice thinkers to bear on matters of practical concern to contemporary societies, such as policies associated with immigration, international trade, and climate change.

Abrupt Climate Change Inevitable Surprises Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Abrupt Climate Change Inevitable Surprises**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Abrupt Climate Change Inevitable Surprises Introduction

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