

MARYLAND: CLIMATE CHANGE IS HERE AND NOW



CENTER FOR CLIMATE
AND ENERGY SOLUTIONS

The earth is warming and this is largely the result of human-caused emissions. The *National Climate Assessment* (NCA) found that U.S. average temperature has increased by about 1.5 F since 1895 with 80 percent of this increase occurring since 1980. Similarly, the Intergovernmental Panel on Climate Change Fifth Assessment Working Group 1 report (IPCC AR5 WG1), *Climate Change 2013: The Physical Science Basis* came to many of the same conclusions as the NCA, but with a global focus.

The amount of warming that will occur by the end of this century depends on our choices now. If we don't make much progress in curbing emissions, temperatures for the planet could rise between 4.7 to 8.6 degrees Fahrenheit (F)—2.6 to 4.8 degrees Celsius (C)—by the end of this century, compared to the average temperature around the end of the 20th century (1986–2005).¹ Warming in the United States is expected to be higher than the global average. Warming averaged across the country could be between 5 F to 10 F, assuming emissions rates continue. Average summer temperatures in Maryland could increase around 9 F by the end of the century, if little is done to reduce emissions.²

Although we have the opportunity to avoid some of this warming, we are still likely to face a number of impacts arising from climate change in the coming decades. In fact, we are already observing some of these impacts now.

- **Sea level rise** – Sea level has risen about 8 inches in the last 100 years, making coastal storms more damaging and accelerating erosion. Globally, future sea level rise is likely to range from 1 to 4 feet, and could be even higher if glaciers in Greenland or Antarctica melt especially quickly.
- **Polar ice** – Arctic sea ice during the summer has been shrinking, and sometime in the 21st century, perhaps within the next few decades, the Arctic will likely be ice-free in the summer. The ice sheets in Greenland and Antarctica have also been melting more rapidly in recent years, which could increase the rate of global sea level rise.
- **More heavy downpours** – More rain is coming in heavy precipitation events in many parts of the world, including the United States. This may contribute to stronger or more frequent floods.
- **More heat waves** – Heat waves have become more frequent and intense, threatening human health, stressing water resources, and increasing energy demands.
- **Threats to ecosystems** – Many plants and animals will be forced to shift their habitats to higher elevations or higher latitudes as warming makes it more difficult to thrive in their current locations.
- **Increased agricultural pests** – With milder winters, many pests and pathogens that affect plants and livestock have been able to migrate to new areas, posing problems to farmers and ranchers.
- **Ocean acidification** – Increased carbon dioxide in the atmosphere has caused the oceans to become more acidic. Further acidification could dissolve the shells of many organisms at the bottom of the food chain, threatening to disrupt the ocean ecosystem.

These impacts pose challenges to infrastructure, businesses, and communities, particularly in countries already struggling to meet the basic food, water, shelter, and security needs of their citizens.

Maryland Climate Change Report

Maryland. Court of Appeals



Maryland Climate Change Report:

The Impacts of Climate Change on the Chesapeake Bay United States. Congress. House. Committee on Natural Resources. Subcommittee on Insular Affairs, Oceans, and Wildlife, United States. Congress. House. Committee on Natural Resources. Subcommittee on National Parks, Forests, and Public Lands, 2009 **Global Warming and the Free State**

Donald F. Boesch, 2008 Geoscience for the Public Good and Global Development Gregory R. Wessel, Jeffrey K.

Greenberg, 2016-05-18 Offers overview of applications of geosciences to sustainable development and geophilanthropic efforts worldwide and offers advice to guide creation of development projects Primacy of geologic input to all development activities is highlighted along with problems that are encountered and environmental issues that must be addressed

Regional Impacts of EPA Carbon Regulations United States. Congress. Senate. Committee on Environment and Public Works, 2015 *Disaster Upon Disaster* Susanna M. Hoffma, Roberto E. Barrios, 2019-10-03 A consistent problem that confronts disaster reduction is the disjunction between academic and expert knowledge and policies and practices of agencies mandated to deal with the concern Although a great deal of knowledge has been acquired regarding many aspects of disasters such as driving factors risk construction complexity of resettlement and importance of peoples culture very little has become protocol and procedure Disaster Upon Disaster illuminates the numerous disjunctions between the suppositions realities agendas and executions in the field goes on to detail contingencies predicaments old and new plights and finally advances solutions toward greatly improved outcomes **Climate Change in Cities** Sara Hughes, Eric K. Chu, Susan G. Mason, 2017-09-27 This book presents pioneering work on a range of innovative practices experiments and ideas that are becoming an integral part of urban climate change governance in the 21st century Theoretically the book builds on nearly two decades of scholarships identifying the emergence of new urban actors spaces and political dynamics in response to climate change priorities However it further articulates and applies the concepts associated with urban climate change governance by bridging formerly disparate disciplines and approaches Empirically the chapters investigate new multi level urban governance arrangements from around the world and leverage the insights they provide for both theory and practice Cities both as political and material entities are increasingly playing a critical role in shaping the trajectory and impacts of climate change action However their policy planning and governance responses to climate change are fraught with tension and contradictions While on one hand local actors play a central role in designing institutions infrastructures and behaviors that drive decarbonization and adaptation to changing climatic conditions their options and incentives are inextricably enmeshed within broader political and economic processes Resolving these tensions and contradictions is likely to require innovative and multi level approaches to governing climate change in the city new interactions new political actors new ways of coordinating and mobilizing resources and new frameworks and technical capacities for decision making We focus explicitly on those innovations that produce new relationships between levels of government between government and

citizens and among governments the private sector and transnational and civil society actors A more comprehensive understanding is needed of the innovative approaches being used to navigate the complex networks and relationships that constitute contemporary multi level urban climate change governance Debra Roberts Co Chair Working Group II IPCC 6th Assessment Report AR6 and Acting Head Sustainable and Resilient City Initiatives Durban South Africa Climate Change in Cities offers a refreshingly frank view of how complex cities and city processes really are Christopher Gore Associate Professor and Chair Department of Politics and Public Administration Ryerson University Canada This book is a rare and welcome contribution engaging critically with questions about cities as central actors in multilevel climate governance but it does so recognizing that there are lessons from cities in both the Global North and South Harriet Bulkeley Professor of Geography Durham University United Kingdom This timely collection provides new insights into how cities can put their rhetoric into action on the ground and explores just how this promise can be realised in cities across the world from California to Canada India to Indonesia

Maryland Medical Journal ,1903 *Maryland Reports* Maryland. Court of Appeals,2011 **Federal Disaster Assistance Budgeting** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Financial Services and General Government,2012 **Maryland Weather Service. Reports. New Series** Maryland. Weather Service,1907 **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1999: Environmental Protection Agency** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,1998 **Maryland Register** ,2008 Emerging Issues in Environmental Law & Climate Change Gabrielle Sigel,2008 World Environment Report ,1994 Climate Change 2007: Impacts, adaptation and vulnerability ,2007 **Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity in the United States** Peter Backlund,2009-05 This report by the Nat Science and Tech Council s U S Climate Change Science Program CCSP is part of a series of 21 reports aimed at providing current assessments of climate change science to inform public debate policy and operational decisions These reports are also intended to help the CCSP develop future program research priorities The CCSP s guiding vision is to provide the Nation and the global community with the science based knowledge needed to manage the risks and capture the opportunities associated with climate and related environmental changes This report assesses the effects of climate change on U S land resources water resources agriculture and biodiversity It was developed with broad scientific input Illus

Maryland Marine Notes ,1991 Maryland Documents Maryland. General Assembly. State Department of Legislative Reference. Library and Information Services Division,2010 **Maryland Conservationist** ,1924 **The Forests of Maryland** Maryland. State Board of Forestry,Fred Wilson Besley,1916

The book delves into Maryland Climate Change Report. Maryland Climate Change Report is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Maryland Climate Change Report, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Maryland Climate Change Report
 - Chapter 2: Essential Elements of Maryland Climate Change Report
 - Chapter 3: Maryland Climate Change Report in Everyday Life
 - Chapter 4: Maryland Climate Change Report in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Maryland Climate Change Report. The first chapter will explore what Maryland Climate Change Report is, why Maryland Climate Change Report is vital, and how to effectively learn about Maryland Climate Change Report.
3. In chapter 2, the author will delve into the foundational concepts of Maryland Climate Change Report. The second chapter will elucidate the essential principles that must be understood to grasp Maryland Climate Change Report in its entirety.
4. In chapter 3, this book will examine the practical applications of Maryland Climate Change Report in daily life. This chapter will showcase real-world examples of how Maryland Climate Change Report can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Maryland Climate Change Report in specific contexts. The fourth chapter will explore how Maryland Climate Change Report is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Maryland Climate Change Report. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Maryland Climate Change Report.

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