

# wilkes center for climate science and policy

**wilkes center for climate science and policy** is a leading institution dedicated to advancing knowledge and solutions related to climate change through rigorous research, policy analysis, and interdisciplinary collaboration. This center plays a pivotal role in bridging the gap between scientific climate data and practical policy implementation, helping communities and governments adapt to and mitigate the impacts of global warming. By fostering partnerships among scientists, policymakers, and stakeholders, the Wilkes Center contributes to informed decision-making and effective climate strategies. This article explores the center's mission, key research areas, policy initiatives, educational programs, and its overall impact on climate science and governance. Understanding the work and influence of the Wilkes Center for Climate Science and Policy provides valuable insight into the evolving field of climate action and sustainable development. The following sections provide a detailed overview of the center's functions and contributions.

- Overview of the Wilkes Center for Climate Science and Policy
- Research Focus and Scientific Contributions
- Policy Development and Advocacy
- Education and Community Engagement
- Collaborations and Partnerships
- Impact on Climate Science and Policy

## Overview of the Wilkes Center for Climate Science and Policy

The Wilkes Center for Climate Science and Policy serves as a hub for interdisciplinary research and policy formulation aimed at addressing the multifaceted challenges of climate change. Established with a vision to integrate cutting-edge climate science with actionable policy solutions, the center emphasizes evidence-based approaches to support sustainability goals. Its team comprises climate scientists, economists, policy analysts, and communication experts who collectively work to translate complex climate data into practical frameworks for mitigation and adaptation.

Located within a prominent academic institution, the center leverages its resources to influence both local and global climate policies. It also prioritizes transparency and public accessibility of climate information, fostering dialogue between scientific communities and the public sector.

## **Research Focus and Scientific Contributions**

The Wilkes Center for Climate Science and Policy is renowned for its comprehensive research agenda that spans multiple dimensions of climate science. Its research primarily addresses climate modeling, environmental impacts, carbon budgeting, and the socio-economic implications of climate change. By employing advanced analytical tools and climate simulations, the center generates high-resolution data that informs both theoretical understanding and practical applications.

### **Climate Modeling and Data Analysis**

The center conducts sophisticated climate modeling to predict future climate scenarios under various emission trajectories. Utilizing state-of-the-art computational methods, these models assess temperature fluctuations, sea-level rise, and extreme weather event probabilities. The resulting data supports policymakers in formulating adaptive strategies to reduce vulnerability.

### **Environmental Impact Studies**

Research into environmental impacts focuses on ecosystem responses, biodiversity loss, and natural resource sustainability. The Wilkes Center evaluates how climate change affects forests, water systems, and agricultural productivity, providing crucial insights for conservation efforts and land management policies.

### **Socio-Economic Assessments**

Understanding the human dimension of climate change, the center analyzes economic risks, public health issues, and social equity concerns related to climate impacts. This holistic approach ensures that policy recommendations address both environmental and societal needs effectively.

### **Policy Development and Advocacy**

The Wilkes Center for Climate Science and Policy plays a critical role in shaping climate-related policies at various governmental levels. By synthesizing scientific evidence with policy analysis, the center advises lawmakers, regulatory agencies, and international bodies on best practices for climate governance.

### **Policy Research and Recommendations**

The center produces rigorous policy briefs and white papers that outline strategies for reducing greenhouse gas emissions and enhancing climate resilience. These documents often include cost-benefit analyses, regulatory frameworks, and incentive programs designed to promote renewable energy adoption and sustainable infrastructure.

## **Legislative Engagement and Advocacy**

Engagement with legislative stakeholders enables the center to provide expert testimony, participate in advisory committees, and collaborate on drafting climate legislation. Advocacy efforts focus on promoting science-based policy interventions that align with global climate agreements such as the Paris Accord.

## **Regulatory Support and Implementation**

The center assists in developing implementation plans for climate policies, helping agencies navigate regulatory challenges and monitor compliance. This support ensures that policies are both practical and effective in achieving desired environmental outcomes.

## **Education and Community Engagement**

Education and outreach represent a foundational aspect of the Wilkes Center for Climate Science and Policy's mission. The center is committed to raising awareness and building capacity among students, professionals, and the wider public regarding climate science and policy issues.

## **Academic Programs and Training**

The center offers specialized academic courses, workshops, and certificate programs that equip participants with knowledge and skills in climate science, policy analysis, and sustainable development. These programs foster the next generation of climate leaders and researchers.

## **Public Outreach and Awareness Campaigns**

Through seminars, public lectures, and interactive events, the center engages diverse audiences to promote understanding of climate challenges and solutions. Educational materials and digital resources are also developed to broaden reach and impact.

## **Community-Based Initiatives**

Collaborating with local organizations, the Wilkes Center supports community-driven projects that address climate adaptation and resilience. These initiatives empower residents to participate actively in shaping sustainable futures.

## **Collaborations and Partnerships**

The Wilkes Center for Climate Science and Policy recognizes the importance of collaboration in tackling global climate issues. It maintains partnerships with universities, governmental agencies, non-governmental organizations, and private sector entities to enhance research and policy outcomes.

- Joint research projects with academic institutions
- Policy dialogues with government bodies
- Consultations and advisory roles for international organizations
- Engagement with industry stakeholders to promote green technologies
- Participation in global climate networks and consortia

## **International Cooperation**

Global climate change requires coordinated responses; thus, the center actively participates in international forums and collaborative research endeavors. These partnerships facilitate knowledge exchange and harmonization of climate policies across borders.

## **Impact on Climate Science and Policy**

The Wilkes Center for Climate Science and Policy has significantly influenced both academic and policy landscapes. Its research outputs have advanced scientific understanding of climate dynamics, while its policy recommendations have informed critical legislative and regulatory measures. The center's integrative approach ensures that climate science is effectively translated into actionable policies that support environmental sustainability and social equity.

By continuously fostering innovation, education, and collaboration, the Wilkes Center remains at the forefront of climate science and policy development. Its ongoing work contributes to shaping resilient societies capable of confronting the challenges posed by climate change now and in the future.

## **Frequently Asked Questions**

### **What is the Wilkes Center for Climate Science and Policy?**

The Wilkes Center for Climate Science and Policy is a research and advocacy institution focused on addressing climate change through scientific research, policy development, and public engagement.

### **Where is the Wilkes Center for Climate Science and Policy located?**

The Wilkes Center for Climate Science and Policy is based at Wilkes University in Wilkes-Barre, Pennsylvania.

## **What are the main goals of the Wilkes Center for Climate Science and Policy?**

The main goals of the Wilkes Center for Climate Science and Policy include advancing climate science research, informing public policy on climate issues, and promoting sustainable environmental practices.

## **Does the Wilkes Center for Climate Science and Policy offer educational programs?**

Yes, the Wilkes Center for Climate Science and Policy offers workshops, seminars, and educational programs aimed at students, policymakers, and the general public to increase awareness and understanding of climate change.

## **How does the Wilkes Center for Climate Science and Policy contribute to climate policy?**

The Center contributes by conducting evidence-based research, providing policy recommendations, and collaborating with government agencies and organizations to develop effective climate strategies.

## **Can the public participate in events hosted by the Wilkes Center for Climate Science and Policy?**

Yes, the Wilkes Center often hosts public lectures, panel discussions, and community outreach events that are open to the public to encourage engagement with climate issues.

## **Does the Wilkes Center for Climate Science and Policy collaborate with other institutions?**

Yes, the Center collaborates with universities, government bodies, non-profits, and international organizations to strengthen climate research and policy efforts.

## **What research topics are prioritized by the Wilkes Center for Climate Science and Policy?**

The Center prioritizes research on climate change mitigation and adaptation, renewable energy, environmental justice, and the socio-economic impacts of climate change.

## **How can students get involved with the Wilkes Center for Climate Science and Policy?**

Students can get involved through internships, research projects, attending events, and participating in climate advocacy initiatives organized by the Center.

## **Where can I find publications or reports from the**

# Wilkes Center for Climate Science and Policy?

Publications and reports from the Wilkes Center for Climate Science and Policy are typically available on their official website, as well as through academic journals and climate policy forums.

## Additional Resources

### 1. *Climate Science and Policy: Bridging the Gap at Wilkes Center*

This book explores how the Wilkes Center for Climate Science and Policy serves as a crucial interface between scientific research and policymaking. It highlights case studies where the center's work has influenced climate legislation and international agreements. Readers gain insight into the challenges of translating complex climate data into actionable policies.

### 2. *Innovations in Climate Modeling: Insights from the Wilkes Center*

Focusing on advancements in climate modeling, this volume showcases the Wilkes Center's contributions to improving predictive accuracy. It covers the integration of new technologies and interdisciplinary approaches in climate simulations. The book is essential for understanding how modeling informs both science and policy decisions.

### 3. *Climate Change Adaptation Strategies: Lessons from Wilkes Center Projects*

This book details practical adaptation strategies developed and tested through Wilkes Center research initiatives. It emphasizes community resilience, infrastructure planning, and ecosystem management under changing climate conditions. The text combines scientific findings with policy frameworks to promote sustainable adaptation.

### 4. *Policy Responses to Climate Crisis: The Wilkes Center Approach*

Examining the policy side, this book outlines how the Wilkes Center facilitates dialogue among scientists, policymakers, and stakeholders. It discusses policy instruments such as carbon pricing, renewable energy mandates, and international cooperation. The narrative underscores the importance of evidence-based policymaking in addressing climate change.

### 5. *Climate Justice and Equity: Perspectives from the Wilkes Center*

Addressing the social dimensions of climate change, this book brings forward the Wilkes Center's work on climate justice. It explores issues of equity, vulnerable populations, and ethical considerations in climate policies. Through interdisciplinary research, the book advocates for inclusive solutions that consider diverse community needs.

### 6. *Green Technologies and Sustainable Development: Research at Wilkes Center*

Highlighting technological innovations, this book reviews the Wilkes Center's research on green technologies like renewable energy, carbon capture, and sustainable agriculture. It connects scientific advancements with policy incentives that promote sustainable development. The book serves as a resource for technologists and policymakers alike.

### 7. *Climate Communication and Public Engagement: Strategies from Wilkes Center*

This volume focuses on effective communication strategies developed by the Wilkes Center to raise public awareness about climate issues. It covers media outreach, educational programs, and stakeholder engagement techniques. The book demonstrates how clear communication can drive public support for climate policies.

### 8. *International Climate Policy: Contributions of the Wilkes Center*

Focusing on the global stage, this book details the Wilkes Center's involvement in international climate negotiations and agreements. It analyzes the center's role in shaping global climate governance frameworks and fostering cross-border collaboration. The text provides a comprehensive view of diplomacy in climate science and policy.

#### *9. Future Directions in Climate Science and Policy: Wilkes Center Perspectives*

Looking ahead, this book presents visionary perspectives from Wilkes Center experts on emerging challenges and opportunities in climate science and policy. It discusses the integration of artificial intelligence, big data, and new policy paradigms. The book encourages innovative thinking to address the evolving climate crisis.

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**wilkes center for climate science and policy: *Climate Change*** Brian C. Black, David M. Hassenzahl Ph.D., Jennie C. Stephens, Gary J. Weisel, Nancy Gift, 2013-01-08 This book provides a holistic consideration of climate change that goes beyond pure science, fleshing out the discussion by considering cultural, historical, and policy-driven aspects of this important issue. Climate change is a controversial topic that promises to reframe rudimentary ideas about our world and how we will live in it. The articles in *Climate Change: An Encyclopedia of Science and History* are designed to inform readers' decision making through the insight of scholars from around the world, each of whom brings a unique approach to this topic. The work goes beyond pure science to consider other important factors, weighing the cultural, historical, and policy-driven contributors to this issue. In addition, the book explores the ideas that have converged and evolved in order to clarify our current predicament. By considering climate change in this holistic fashion, this reference collection will prepare readers to consider the issue from every angle. Each article in the work is suitable for general readers, particularly students in high school and college, and is intended to inform and educate anyone about climate change, providing valuable information regarding the stages of mitigation and adaptation that are occurring all around us.

**wilkes center for climate science and policy: *The Journal of Environment & Development***, 1996

**wilkes center for climate science and policy: *Climate Change: Global Risks, Challenges and Decisions*** Katherine Richardson, Will Steffen, Diana Liverman, 2011-03-03 Providing an up-to-date synthesis of all knowledge relevant to the climate change issue, this book ranges from the basic science documenting the need for policy action to the technologies, economic instruments and political strategies that can be employed in response to climate change. Ethical and cultural issues constraining the societal response to climate change are also discussed. This book provides a handbook for those who want to understand and contribute to meeting this challenge. It covers a

very wide range of disciplines - core biophysical sciences involved with climate change (geosciences, atmospheric sciences, ocean sciences, ecology/biology) as well as economics, political science, health sciences, institutions and governance, sociology, ethics and philosophy, and engineering. As such it will be invaluable for a wide range of researchers and professionals wanting a cutting-edge synthesis of climate change issues, and for advanced student courses on climate change.

**wilkes center for climate science and policy: Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part A: Global and Sectoral Aspects: Volume 1, Global and Sectoral Aspects** Intergovernmental Panel on Climate Change (IPCC), 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

**wilkes center for climate science and policy: Private Empire** Steve Coll, 2013-05-28 "ExxonMobil has met its match in Coll, an elegant writer and dogged reporter . . . extraordinary . . . monumental." —The Washington Post "Fascinating . . . Private Empire is a book meticulously prepared as if for trial . . . a compelling and elucidatory work." —Bloomberg From the Pulitzer Prize-winning and bestselling author of Ghost Wars and The Achilles Trap, an extraordinary exposé of Big Oil. Includes a profile of current Secretary of State and former chairman and chief executive of ExxonMobil, Rex Tillerson In this, the first hard-hitting examination of ExxonMobil—the largest and most powerful private corporation in the United States—Steve Coll reveals the true extent of its power. Private Empire pulls back the curtain, tracking the corporation's recent history and its central role on the world stage, beginning with the Exxon Valdez accident in 1989 and leading to the Deepwater Horizon oil spill in the Gulf of Mexico in 2010. The action spans the globe—featuring kidnapping cases, civil wars, and high-stakes struggles at the Kremlin—and the narrative is driven by larger-than-life characters, including corporate legend Lee "Iron Ass" Raymond, ExxonMobil's chief executive until 2005, and current chairman and chief executive Rex Tillerson, President-elect Donald Trump's nomination for Secretary of State. A penetrating, news-breaking study, Private Empire is a defining portrait of Big Oil in American politics and foreign policy.

**wilkes center for climate science and policy: Social Welfare Policy in a Changing World** Shannon R. Lane, Elizabeth S. Palley, Corey S. Shdaimah, 2024-12-18 This textbook is designed to help students develop the nine core social work competencies outlined by the Council on Social Work Education (CSWE) in its 2022 Educational Policy and Accreditation Standards (EPAS). Visit the 2022 EPAS website to learn more about these standards and competencies. Social Welfare Policy in a Changing World, Second Edition offers an engaging, student-friendly approach that links policy and practice, while employing a critical analytic lens to U.S. social welfare policy. With particular attention to disparities based on class, race/ethnicity, ability, sexual orientation and gender, Shannon R. Lane, Elizabeth S. Palley, and Corey S. Shdaimah assess the impact of policies at the micro, meso, and macro levels. The authors provide a brief foundation in history, the policy process, and theory, while primarily helping students understand how policy shapes their lives, communities, and clients. Connecting description, theoretical analysis, and advocacy, this text challenges readers to critically assess policy development, its consequences, and future implications. Students will come away with a newfound understanding of how to use the political process to address social justice issues and advocate for meaningful policy change.

**wilkes center for climate science and policy: World Investment Report 2023** United Nations Conference on Trade and Development (UNCTAD), 2023-07-05 The World Investment Report 2023 provides the latest trends and prospects for foreign direct investment. It documents a challenging year for cross-border investment flows, looking at greenfield investment in industry, project finance in infrastructure, and international production activities of the largest multinationals. Dedicated sections provide data on international investment in the SDGs and in sustainable energy. The Report further reviews recent policy developments, including trends in national investment policy measures and international investment agreements. It presents an overview of investment



policy measures aimed at supporting the energy transition. The Report also documents sustainability trends in global capital markets, including sustainability-linked financial products, sustainable stock exchanges, institutional investor commitments and financial regulations - all with a special focus on the mobilization of funds for the energy transition. Finally, the theme chapter of the Report discusses ways and means to increase international private sector investment - in particular foreign direct investment and international project finance - in the energy sector in developing countries, taking into account both the energy transition imperative and SDG7 on affordable and reliable access to energy for all. [Resumen de editor]

**wilkes center for climate science and policy: Climate Change and Tourism in the Asia Pacific** Bruce Prideaux, Bob McKercher, Karen McNamara, 2015-09-07 Climate change will exert an enormous impact on all societies in the medium to long term. Tourism, as both a commercial activity and social phenomenon is not immune. To date, industry has been slow to recognise the scale of the threat posed by a changing climate on its operations and consumers have been extremely reluctant to modify their travel behaviours. The Asia Pacific region is well on the way to being the 21st Century powerhouse of tourism, however the manner in which it develops will, in part, be determined by how the global community responds to climate change. This book examines climate change issues related to tourism in the Asia Pacific region. Chapters discuss demand and supply side issues, explore government policy responses and introduce several new adaptation models. The book also calls for a more effective linking of social science research with the scientific discourse to create long term resolution of and adaptation to this issue. This book was published as a special issue of Asia Pacific Journal of Tourism Research.

**wilkes center for climate science and policy: The SAGE Handbook of Tourism Management** Chris Cooper, Serena Volo, William C. Gartner, Noel Scott, 2018-08-14 The SAGE Handbook of Tourism Management is a critical, authoritative review of tourism management, written by leading international thinkers and academics in the field. Arranged over two volumes, the chapters are framed as critical synoptic pieces covering key developments, current issues and debates, and emerging trends and future considerations for the field. The two volumes focus in turn on the theories, concepts and disciplines that underpin tourism management in volume one, followed by examinations of how those ideas and concepts have been applied in the second volume. Chapters are structured around twelve key themes: Volume One Part One: Researching Tourism Part Two: Social Analysis Part Three: Economic Analysis Part Four: Technological Analysis Part Five: Environmental Analysis Part Six: Political Analysis Volume Two Part One: Approaching Tourism Part Two: Destination Applications Part Three: Marketing Applications Part Four: Tourism Product Markets Part Five: Technological Applications Part Six: Environmental Applications This handbook offers a fresh, contemporary and definitive look at tourism management, making it an essential resource for academics, researchers and students.

**wilkes center for climate science and policy: *Sustainable Food Futures*** Jessica Duncan, Megan Bailey, 2017-08-04 Securing sustainable food for everyone is one of the world's most pressing challenges, but research, policy, and programmes remain fragmented, and effective solutions have been slow to emerge. This book takes on these challenges by proposing a range of solutions that can advance pathways towards sustainable food futures. Complete with recipes, this book is structured so that readers are taken in a logical progression through discussions of solutions, highlighting the need to recognise the importance of place and the importance of participation, and to challenge dominant descriptions of markets, through to re-designing food systems. The solutions presented in this book are based on real-world cases, but discussions remain deliberately broad to encourage thinking in new ways. Cases are drawn from Africa, Asia, Europe, and North and South America. The book is of relevance to those interested in sustainable food futures, and can serve as a supplementary textbook for a wide range of courses in food studies and related disciplines.

**wilkes center for climate science and policy: Carbon Management in Tourism** Gossling Stefan, 2010-12-06 Climate change is one of the single most important global environmental issues facing the world today and is emerging as a major topic in tourism studies. Tourism is one of the

world's largest industries; it both contributes to, and will be notably affected by, climate change. Given the emerging global legal frameworks to reduce emissions of greenhouse gasses, growing costs of carbon and pro-environmentally orientated customers, carbon management in tourism is a necessity. Tourism must take responsive actions to enable travel and tourism to deliver the peak experiences that tourists seek with a lower carbon footprint. Carbon Management in Tourism is the first book devoted to carbon emission reductions and to showcase a wide range of practical mitigation measures. This book provides a comprehensive overview by combining theory and practice of climate change mitigation in global tourism, addressing various levels of scale, such as global, national, and regional tourism systems, as well as individual tourism businesses. It integrates a thorough scientific discussion of the causes of emissions growth, along with an analysis of the major options to reduce emissions, and state-of-the-art carbon management practices. Detailed case studies provide examples of tourism businesses or destinations that have successfully reduced emissions of greenhouse gasses, with consideration of economic and socio-cultural issues integrated throughout. This timely and important volume is essential reading for undergraduate and postgraduate students as well as academic researchers interested in Tourism, Environmental Management, Geography and Carbon Management.

**wilkes center for climate science and policy: Improving productivity and environmental performance of aquaculture** Waite, R., Beveridge, M., Brummett, R., Castine, S., Chaiyawannakarn, N., Kaushik, S., Mungkung, R., Nawapakpilai, S., Phillips, M., 2014-09-01  
Fish, including finfish and shellfish, are an important item in the human food basket, contributing 17 percent of the global animal-based protein supply in 2010. They are an especially valuable food source in developing countries, where more than 75 percent of the world's fish consumption occurs. In addition to protein, fish contain micronutrients and longchain omega-3 fatty acids that are essential for maternal and child health, but often deficient in the diets of the poor. However, the global supply of wild-caught fish has long peaked and is unlikely to rise again unless overexploited stocks are rehabilitated. As world fish consumption continues to grow, aquaculture (fish farming) has emerged to meet demand. Already, just under half of all fish that people consume come from aquaculture, which is one of the world's fastest-growing animal food producing sectors. With the supply of wild-caught fish stagnant, any future increase in world fish consumption will need to be supplied by aquaculture. This working paper explores the potential role of aquaculture in meeting global fish demand in 2050, finding that aquaculture production will need to more than double by midcentury. The authors examine scenarios of aquaculture's growth and environmental impacts in 2050 and close with a series of recommendations for how to sustainably grow aquaculture production.

**wilkes center for climate science and policy: National Intelligence and Science** Wilhelm Agrell, Gregory F. Treverton, 2015 Intelligence is currently facing increasingly challenging cross-pressures from both a need for accurate and timely assessments of potential or imminent security threats and the unpredictability of many of these emerging threats. The essence of intelligence is no longer the collection, analysis, and dissemination of secret information, but has become instead the management of uncertainty in areas critical for overriding security goals.

**wilkes center for climate science and policy: Antarctic Minerals Policy** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Transportation, Aviation, and Materials, 1990

**wilkes center for climate science and policy: Advances in Ecological Research - Part 1**, 2024-10-22 Advances in Ecological Research, Volume 70 highlights new advances in the field, with this new volume presenting interesting chapters written by an international board of authors - Provides the latest information on cancer research - Offers outstanding and original reviews on a range of cancer research topics - Serves as an indispensable reference for researchers and students alike

**wilkes center for climate science and policy: Space Studies Board Annual Report 2013** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board,

2014-04-09 The original charter of the Space Science Board was established in June 1958, 3 months before the National Aeronautics and Space Administration (NASA) opened its doors. The Space Science Board and its successor, the Space Studies Board (SSB), have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present. The SSB has also provided such advice to other executive branch agencies, including the National Oceanic and Atmospheric Administration (NOAA), the National Science Foundation (NSF), the U.S. Geological Survey (USGS), the Department of Defense, as well as to Congress. Space Studies Board Annual Report 2013 covers a message from the chair of the SSB, Charles F. Kennel. This report also explains the origins of the Space Science Board, how the Space Studies Board functions today, the SSB's collaboration with other National Research Council units, assures the quality of the SSB reports, acknowledges the audience and sponsors, and expresses the necessity to enhance the outreach and improve dissemination of SSB reports. This report will be relevant to a full range of government audiences in civilian space research - including NASA, NSF, NOAA, USGS, and the Department of Energy, as well members of the SSB, policy makers, and researchers.

**wilkes center for climate science and policy: Impact of Climate-Change on Water Resources**  
Christina Anagnostopoulou, Charalampos Skoulikaris, 2021-01-19 - Water resources management should be assessed under climate change conditions, as historic data cannot replicate future climatic conditions. - Climate change impacts on water resources are bound to affect all water uses, i.e., irrigated agriculture, domestic and industrial water supply, hydropower generation, and environmental flow (of streams and rivers) and water level (of lakes). - Bottom-up approaches, i.e., the forcing of hydrologic simulation models with climate change models' outputs, are the most common engineering practices and considered as climate-resilient water management approaches. - Hydrologic simulations forced by climate change scenarios derived from regional climate models (RCMs) can provide accurate assessments of the future water regime at basin scales. - Irrigated agriculture requires special attention as it is the principal water consumer and alterations of both precipitation and temperature patterns will directly affect agriculture yields and incomes. - Integrated water resources management (IWRM) requires multidisciplinary and interdisciplinary approaches, with climate change to be an emerging cornerstone in the IWRM concept.

**wilkes center for climate science and policy: Climate Change 2014 - Impacts, Adaptation and Vulnerability: Global and Sectoral Aspects**  
Christopher B. Field, Vicente R. Barros, 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

**wilkes center for climate science and policy: Policy Implications of Greenhouse Warming**  
Committee on Science, Engineering, and Public Policy (U.S.). Policy Implications of Greenhouse Warming--Adaption Panel, 1991 Readily accessible to any interested reader, this volume offers an analysis of the major issues surrounding greenhouse warming and presents the authoring panel's recommendations for U.S. policy. Recommendations address a wide range of issues, including energy policy; deforestation; human population growth; the appropriate role of the United States in an international strategy; and needed research on scientific, economic, and social questions. Policy Implications of Greenhouse Warming analyzes scientific understanding of greenhouse gas accumulation and its effect on climate; prospects for human, animal, and plant adaptation to rising global temperatures; and options for mitigating the effects of greenhouse gas emissions.

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