

Improving the Assessment and Valuation of Climate Change Impacts for Policy and Regulatory Analysis

January 27-28, 2011

Capital Hilton, Washington, DC



Workshop Agenda Federal Meeting Room

RESEARCH ON CLIMATE CHANGE IMPACTS AND ASSOCIATED ECONOMIC DAMAGES

DAY 1

Workshop Introduction

- | | |
|-------------|---|
| 8:55 – 9:00 | Welcome
Elizabeth Kopits, U.S. Environmental Protection Agency |
| 9:00 – 9:20 | Opening Remarks – Progress in estimating climate change impacts
Michael Oppenheimer, Princeton University |
| 9:20 – 9:40 | Opening Remarks – Progress in valuing climate damages
William Cline, Peterson Institute for International Economics |
| 9:40 – 9:45 | Questions |

Sessions covering research on various impact categories:

Storms and Other Extreme Weather Events

Moderator: Alex Marten, U.S. Environmental Protection Agency

- | | |
|---------------|--|
| 9:45 – 10:05 | Impact of Climate Change on Storms and Other Extreme Weather Events
Tom Knutson, National Oceanic and Atmospheric Administration |
| 10:10 – 10:30 | Global Damages from Storms and Other Extreme Weather Events
Robert Mendelsohn, Yale University |
| 10:35 – 10:55 | Open Facilitated Discussion |
| 10:55 – 11:05 | Break |

Water Resources

Moderator: Robert Kopp, U.S. Department of Energy

- 11:05 – 11:25 ***Hydrological/Water Resource Impacts of Climate Change***
Ken Strzepek, University of Colorado, Boulder, and
Massachusetts Institute of Technology
- 11:25 – 11:45 ***Estimating the Economic Impact of Changes in Water
Availability***
Brian Hurd, New Mexico State University
- 11:45 – 12:10 **Open Facilitated Discussion**
-

12:10 – 1:00 ***Lunch***

Agriculture

Moderator: Charles Griffiths, U.S. Environmental Protection Agency

- 1:00 – 1:20 ***Biophysical Responses of Agro-ecosystems to Climate
Change***
Cynthia Rosenzweig, NASA Goddard Institute for Space Studies
- 1:20 – 1:40 ***Estimating the Economic Impact of Climate Change in the
Agricultural Sector***
Wolfram Schlenker, Columbia University
- 1:40 – 2:20 **Open Facilitated Discussion**

Human Health

Moderator: Charles Griffiths, U.S. Environmental Protection Agency

- 2:20 – 2:40 ***Climate-Associated Changes in Health Conditions/Diseases
and Air Pollution***
Kristie Ebi, Carnegie Institution for Science
- 2:40 – 3:00 ***Estimating the Economic Value of Health Impacts of Climate
Change***
Maureen Cropper, Resources for the Future and University of
Maryland, College Park
- 3:00 – 3:40 **Open Facilitated Discussion**
- 3:40 – 3:50 ***Break***

Sea Level Rise

Moderator: Robert Kopp, U.S. Department of Energy

3:50 – 4:10

Sea Level Impacts of Climate Change

Robert Nicholls, University of Southampton

4:10 – 4:30

Estimating the Economic Impact of Sea Level Rise

Robert Tol, Economic and Social Research Institute

4:30 – 5:10

Open Facilitated Discussion

- DAY 2

Day 2 Introduction

8:30–8:40 **Welcome; Recap of Day 1; Overview of Day 2**
Elizabeth Kopits, U.S. Environmental Protection Agency

Impacts Sessions Continued:

Marine Ecosystems and Resources

Moderator: Chris Moore, U.S. Environmental Protection Agency

8:40 – 9:00 **Modeling Climate and Ocean Acidification Impacts on Ocean Biogeochemistry**
Sarah Cooley, Woods Hole Oceanographic Institute

9:00 – 9:20 **Modeling Climate and Acidification Impacts on Fisheries and Aquaculture**
Paul McElhany, National Oceanic and Atmospheric Administration

9:20 – 9:40 **Economic Impact of Climate Change and Ocean Acidification on Fisheries**
David Finnoff, University of Wyoming

9:40 – 10:00 **Non-market Valuation of Climate and Acidification Impacts on Marine Resources**
John Whitehead, Appalachian State University

10:00 – 10:10 Break

10:10 – 10:50 Open Facilitated Discussion

Terrestrial Ecosystems and Forestry

Moderator: Steve Newbold, U.S. Environmental Protection Agency

10:50 – 11:10 **Biological Responses of Terrestrial Ecosystems to Climate Change**
Karen Carney, Stratus Consulting

11:10 – 11:30 **Estimating the Economic Impact of Climate Change on Forestry**
Brent Sohngen, Ohio State University

11:30 – 11:50 **Valuing Climate-associated Changes in Terrestrial Ecosystems and Ecosystem Services**
Alan Krupnick, Resources for the Future

11:50 – 12:30 Open Facilitated Discussion

12:30 – 1:30 *Lunch*

Energy Production and Consumption

Moderator: Stephanie Waldhoff, U.S. Environmental Protection Agency

- 1:30 – 1:50 ***U.S. Energy Production and Consumption Impacts of Climate Change***
Howard Gruenspecht, U.S. Energy Information Administration
- 1:50 – 2:10 ***Impacts of Climate Change on Global Energy Production and Consumption***
Jayant Sathaye, Lawrence Berkeley National Laboratory
- 2:10 – 2:50 **Open Facilitated Discussion**

Socio-economic and Geopolitical Impacts

Moderator: Alex Marten, U.S. Environmental Protection Agency

- 2:50 – 3:10 ***Regional Conflict and Climate Change***
Nils Petter Gleditsch, Peace Research Institute Oslo
- 3:10 – 3:30 ***Migration Impacts of Climate Change***
Robert McLeman, University of Ottawa
- 3:30 – 3:40 ***Break***
- 3:40 – 4:20 **Open Facilitated Discussion**
-

Panel Discussion: Incorporating Research on Climate Change Impacts into Integrated Assessment Modeling

4:20–5:20 Moderator: Elizabeth Kopits, U.S. Environmental Protection Agency

Panelists:

- David Anthoff, University of California, Berkeley
- Anthony Janetos, Joint Global Change Research Institute, Pacific Northwest National Laboratory
- Robert Mendelsohn, Yale University

- Cynthia Rosenzweig, NASA Goddard Institute for Space Studies
- Gary Yohe, Wesleyan University

Closing Remarks

5:20–5:25 ***Summary Comments by U.S. Department of Energy***
Rick Duke, Deputy Assistant Secretary for Climate Policy

5:25–5:30 ***Summary Comments by U.S. Environmental Protection Agency***
Al McGartland, Director of the National Center for Environmental Economics