

(Michael Oppenheimer)

CURRICULUM VITA

(May 2017)

MICHAEL OPPENHEIMER

Albert G. Milbank Professor of Geosciences and International Affairs,
Department of Geosciences and the Woodrow Wilson School of
Public & International Affairs, Princeton University

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Woodrow Wilson School, Princeton University

Associated Faculty of: Princeton Environmental Institute
Atmosphere and Ocean Sciences Program
Princeton Institute for International and Regional Studies
Andlinger Center for Energy and the Environment

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Other Professional Affiliations

Visiting Professor, NYU School of Law
Editor in Chief, *Climatic Change Letters*
Co-editor in Chief, *Climatic Change*
Science Advisor, Environmental Defense Fund
Coordinating Lead Author, Intergovernmental Panel on Climate Change

Fields of Specialization

Physics and chemistry of the atmosphere; climate change, ozone depletion, acid deposition and air pollution: their effects on natural systems and society, and public policy responses.

Education

S.B. (Chemistry) M.I.T., 1966

Ph.D. (Chemical Physics) University of Chicago, 1970

Positions

1966-67 Teaching Assistant, University of Chicago

1971-73 Research Fellow, Harvard College Observatory

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1971-81 Astrophysicist, Harvard-Smithsonian Center for Astrophysics
1978-79 Visiting Astronomer, University of California, Santa Cruz
1981-96 Senior Scientist, Environmental Defense Fund (EDF)
1995 -2002 Manager, Global / Regional Air Program, EDF
1996 -2002 Chief Scientist, EDF
2002- Professor of Geosciences and International Affairs, Princeton
 University

Honors, Awards

1969 Danforth Tutor, University of Chicago
1969-70 Union Carbide Fellow, University of Chicago
1978-79 John Simon Guggenheim Memorial Foundation Fellow
1978-79 Morrison Fellow, University of California, Santa Cruz
1989 The Henry Draper Award of the Hudson River Fishermen's
 Association
1989-2001 Streisand Chair in Environmental Studies, EDF
2000 League of Conservation Voters, Environmental Leadership Award
2001 Environmental Action Coalition Green Star Award
2005-2006 Russell Sage Foundation Visiting Scholar
2007 New Species Award, African Rainforest Conservancy
2007 Participant in the Intergovernmental Panel on Climate Change,
 which won the Nobel Peace Prize in 2007
2009-10 Russell Sage Foundation Associate Scholar
2010 Heinz Award Winner
2010 First Stephen Schneider Memorial Lecturer, AGU
2010- Fellow, American Association for the Advancement of Science
2014 Linacre Lecturer, Oxford University
2014-15 Pace Academy Visiting Fellow, Pace University
2015 Agassiz Visiting Lecturer, Dept. Earth and Planetary Sciences, Harvard
 Univ.

Committees, Boards, and Panels

1982-90 Board of Directors, National Clean Air Committee
1982 E.P.A. Lead Criteria Review Committee
1982-84 Acid Rain Advisory Committee, N.Y. State Department of
 Environmental Conservation
1982-86 Board of Directors, OSHA-Environmental Network
1983 Ad Hoc Committee to Review the National Acid Precipitation Assessment
 Program, White House Council on Environmental Quality
1985-90 Hudson River Panel, Hudson River Foundation
1986-88 Board of Directors, Environmental Planning Lobby
1987-88 E.P.A. Visibility Committee
1988-89 Panel on Greenhouse Warming, World Resources Institute
1988- Advisory Board, Pace University Center for Environmental Legal
 Studies
1989-95 NASA Advisory Committee on the Atmospheric Effects of

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Stratospheric Aircraft
1989-97 Chairman, Science Advisory Panel, Climate Change Exhibition,
American Museum of Natural History
1990-96 Advisory Board, Environmental Media Association
1990 Contributing Author, Intergovernmental Panel on Climate Change,
First Assessment Report, WGII Chapter 5
1991-02 Board of Analysts, "Greenwire"
1991-92 National Steering Committee, Florida Global Warming Education
Project, American Horizons
1991-94 Environmental Advisory Committee to New York Governor Mario
Cuomo
1992-94 Visiting Committee, Cornell Center for the Environment, Cornell
University
1994 Interim Advisory Committee, Princeton Environmental Institute,
Princeton University
1995-99 National Academy of Sciences/National Research Council, Panel
on the Atmospheric Effects of Aviation
1996 Contributing author, Intergovernmental Panel on Climate Change,
Second Assessment Report, WGI Technical Summary and Chapter 8
1997-98 Technical Advisory Panel, H. John Heinz III Center
1998 Global Change Steering Committee, H. John Heinz III Center
1998-99 Scientific Advisory Board, The Riverkeeper
1999-02 Advisory Board, Earth and Environmental Studies Program,
Montclair State College
2000-02 Executive Campaign Cabinet, Earth System Science Research
Center, University of California, Irvine
2000-02 Advisory Council, Center for Environmental Policy, Bard College
2001 Lead author, Intergovernmental Panel on Climate Change, Third
Assessment Report, WGI Technical Summary; Drafting Team, WGI
Summary for Policy Makers
2001-05 Environment Jury, Heinz Awards, Heinz Foundation
2003-09 Trustee, Tri-State Transportation Coalition
2003-06 Steering Committee, Aldo Leopold Leadership Program
2003- Executive Committee, Cooperative Institute for Climate
Science, Princeton University and NOAA Geophysical Fluid
Dynamics Laboratory
2003-07 Science and Technology Council, Cummins, Inc.
2004-07 Lead Author, Intergovernmental Panel on Climate Change, Fourth
Assessment Report, WGII Chapter 19
2005-06 Panel on Climate Variability and Change, National Research
Council, National Academy of Sciences
2005-14 Executive Committee, Environmental Studies Program,
Princeton University
2006-19 Executive Committee, Center for Information Technology Policy
Policy, Princeton University
2006-8 Chair, steering committee for Arctic Expedition for Climate

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Action (Lindblad Expeditions, Aspen Institute, National Geographic Society)
2007-8 Advisory Board, African Rainforest Conservancy
2007-09 Panel on Alternative Liquid Transportation Fuels, National Academy of Sciences
2007-8 Co-curator, *Climate Change: The threat to life and our energy future*, American Museum of Natural History
2007-9 Editorial Board, Environmental Research Letters
2008-19 Executive Committee, Program in Sustainable Energy, Princeton University
2008- Board of Directors, Climate Central
2008 Advisory Board to NJDEP commissioner on establishing an SAB
2009-12 Coordinating Lead Author, Intergovernmental Panel on Climate Change, Special Report on *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation*, Chapter 1; Drafting Author Summary for Policy Makers
2009-16 National Academies Board on Energy & Environmental Systems
2010-12 American Geophysical Union (AGU) Outreach Committee
2010-14 Coordinating Lead Author, Intergovernmental Panel on Climate Change, Fifth Assessment Report, WGII Ch. 19; Drafting Author, Summary for Policy Makers; Member Core Writing Team, Synthesis Report
2011-14 Advisory Board, Yale Climate and Energy Institute
2012- Sustainability Steering Committee, Princeton University
2012 AGU Climate Change Position Statement Panel
2012 AGU Journal Feasibility Study Task Force
2013- NYC Climate Change Panel, Mayor's Office
2015-17 AGU Climate Communication Prize Committee
2015- Science Advisor, Climate Communication
2015- Editorial Board, Journal of Extreme Events
2016 Co-coordinator, Climate Science Subgroup, Hillary Clinton Campaign
2016 AGU Panel on Statement on Scientists' Rights and Responsibilities
2016- Andlinger Center Executive Committee
2017-20 AAAS Electorate Nominating Committee, Atm. & Hydro. Sci. Section
2017- Board of Directors, Climate Scientists Legal Defense Fund

Membership in Professional Societies

American Association for the Advancement of Science
American Geophysical Union
American Meteorological Society
American Physical Society
International Glaciological Society

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Current Sources of Research Support

Woodrow Wilson School of Public and International Affairs
Carbon Mitigation Initiative (Princeton/BP, ongoing)
Climate Futures Initiative (2015-16, Princeton University)
High Meadows Fund (ongoing)
National Science Foundation Grant: *Risk Assessment and Risk Management: An Integrated Approach for Responding to Multiple Hazards from Tropical Cyclones in a Changing Climate* (2015-2019)
National Science Foundation Grant: *Assessing Assessments*

BIBLIOGRAPHY

Articles in Professional Journals

- 1971 Ultraviolet spectra of alkali halides in inert matrices (with R. S. Berry).
J. Chem. Phys., **54**, 5058.
- 1972 Collision matrix elements near a pseudocrossing of potential energy curves.
J. Chem. Phys., **57**, 3899.
- 1972 Non-resonant charge capture: $\text{Na}^+ + \text{Li} = \text{Na} + \text{Li}^+$ (with C. Bottcher).
J. Phys. B., **5**, 492.
- 1972 Eigenvalues of the $2p3p^3P$ and $2p3d^1^3D$ bound states of the helium isoelectronic sequence (with H. Doyle and G. W. F. Drake). *Phys. Rev.*, **A5**, 26.
- 1972 The charge transfer spectrum of $(\text{LiNa})^+$ (with C. Bottcher and A. Dalgarno).
Chem. Phys. Lett., **15**, 24.
- 1972 The calculation of photoabsorption processes in helium (with A. Dalgarno and H. T. Doyle). *Phys. Rev. Lett.*, **29**, 1051.
- 1973 Chemiionization in interstellar clouds (with R. S. Berry and A. Dalgarno). *Ap. J. Lett.*, **183**, L21.
- 1973 The formation of formaldehyde in interstellar clouds (with A. Dalgarno and J. Black). *Nature*, **245**, 100.
- 1974 The chemistry of sulphur in interstellar clouds (with A. Dalgarno). *Ap. J.*, **187**, 231.
- 1974 The fractional ionization in dense interstellar clouds (with A. Dalgarno). *Ap. J.*, **192**, 29.

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- 1974 Chemical heating in diffuse interstellar clouds (with A. Dalgarno). *Ap. J.*, **192**, 597.
- 1974 Configuration mixing effects on molecular dipole transition moments (with K. Docken). *Chem. Phys. Lett.*, **29**, 349.
- 1974 Hydrogen chloride in dense interstellar clouds (with A. Dalgarno, T. de Jong, and J. H. Black). *Ap. J. Lett.*, **192**, L37.
- 1975 The formation of CO and thermal balance in interstellar clouds (with A. Dalgarno). *Ap. J.*, **200**, 419.
- 1975 Comets and interstellar masers. *Nature*, **254**, 677.
- 1975 Gas phase chemistry in comets. *Ap. J.*, **196**, 251.
- 1975 A bound state expansion method for calculating resonance and non-resonance contributions to continuum processes: Theoretical development and application to the photoionization of helium (with H. Doyle and A. Dalgarno). *Phys. Rev.*, **A11**, 909.
- 1975 The formation of CH^+ in interstellar clouds (with A. Dalgarno and J. H. Black). *Ap. J.*, **199**, 633.
- 1975 Metastable ^2P oxygen ions in the daytime thermosphere (with several authors). *J. Geophys. Res.*, **80**, 1026.
- 1975 A bound state method for phase shifts in elastic scattering of electrons from atoms and ions (with A. Dalgarno and H. Doyle). *Chem. Phys. Lett.*, **32**, 6.
- 1976 An improved bound state method for calculating resonance eigenvectors and properties (with H. Doyle). *Phys. Rev.*, **A13**, 665.
- 1976 Recombination of NO^+ in the ionosphere (with several authors). *Geophys. Res. Lett.*, **3**, 209.
- 1976 Molecular oxygen abundances in the thermosphere from the chemistry of the O_2^+ ion based on Atmosphere Explorer-C composition measurements (with A. Dalgarno and H. C. Brinton). *J. Geophys. Res.*, **81**, 4678.
- 1976 Ion chemistry of N_2^+ and the solar ultraviolet flux in the thermosphere (with A. Dalgarno and H. C. Brinton). *J. Geophys. Res.*, **81**, 3762.
- 1977 Isentropic instabilities in the interstellar gas. *Ap. J.*, **211**, 400.

(Michael Oppenheimer)

- 1977 Association ionization and interstellar TiO and TiO⁺ (with A. Dalgarno). *Ap. J.*, **212**, 683.
- 1977 Daytime chemistry of NO⁺ from Atmosphere Explorer-C measurements (with A. Dalgarno, F. P. Trebino, L. H. Brace, H. C. Brinton and J. H. Hoffman). *J. Geophys. Res.*, **82**, 191.
- 1977 Indirect determinations of molecular oxygen densities in the daytime thermosphere from Atmosphere Explorer-C composition measurements (with K. Kirby-Docken). *J. Geophys. Res.*, **82**, 3503.
- 1977 Comparison of measured and calculated thermospheric molecular oxygen (with W. E. Potter, D. C. Kayser, H. C. Brinton and L. H. Brace). *J. Geophys. Res.*, **82**, 5243.
- 1977 Ion photochemistry of the thermosphere from Atmosphere Explorer-C measurements (with E. R. Constantinides, K. Kirby-Docken, G. A. Victor, A. Dalgarno and J. H. Hoffman). *J. Geophys. Res.*, **82**, 5485.
- 1978 An analysis of the coma of Comet Bennett 1970 II. *Ap. J.*, **225**, 1083.
- 1978 The EUV flux inferred from AE-C He⁺ abundances (with S. Babeu, J. H. Hoffman and E. Breig). *Geophys. Res. Lett.*, **5**, 773.
- 1978 Evidence for shock chemistry in Orion (with C. Lada and T. W. Hartquist). *Ap. J. Lett.*, **226**, L153.
- 1979 The effect of cosmic ray screening upon the stability of interstellar clouds (with B. Elmegreen and T. W. Hartquist). *Astron. Astrophys.*, **75**, 137.
- 1979 Photoionization and photoabsorption cross sections of thermospheric species: He, O, N₂, and O₂ (with K. Kirby, S. Babeu, E. R. Constantinides and G. A. Victor). *Atomic Data and Nuclear Data Tables*, **23**, 63.
- 1980 Molecular diagnostics of interstellar shocks (with T. W. Hartquist and A. Dalgarno). *Ap. J.*, **236**, 182.
- 1980 Sodium D-line emission in Comet West (1975n) and the sodium source in comets. *Ap. J.*, **240**, 923.
- 1980 Chemical reactions and the nature of comets. *Accounts of Chemical Research*, **13**, 378.
- 1980 The effect of solar cycle ultraviolet flux variations on cometary gas (with C. J. Downey). *Ap. J. Lett.*, **241**, L123.

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- 1981 EUV flux variations during solar cycle 21 from AE-E He⁺ abundances (with S. Babeu and H. C. Brinton). *J. Geophys. Res.*, **86**, 825.
- 1981 Ultraviolet absorption studies of H₂O and other species in Comet Halley with space telescope (with P. L. Smith and J. H. Black). *Icarus*, **47**, 441.
- 1982 Sulfur emissions. *Science (Letters)*, **217**, 586.
- 1983 The relationship of sulfur emissions to sulfate in precipitation. *Atmos. Environment*, **17**, 451.
- 1983 The relationship of sulfur emissions to sulfate in precipitation II. Gas phase processes. *Atmos. Environment*, **17**, 1489.
- 1984 The relationship of sulfur emissions to sulfate in precipitation III. Subregional budget analysis. *Atmos. Environment*, **18**, 403.
- 1985 An analysis of the sulfur budget and interstate sulfur transport for Colorado. *Atmos. Environment*, **19**, 1439.
- 1985 Acid deposition (with J. N. Galloway, G. E. Likens and S. A. Norton). *Science (Letters)*, **227**, 1154.
- 1985 Acid deposition, smelter emissions, and the linearity issue in the Western United States (with C. Epstein and R. Yuhnke). *Science*, **229**, 859.
- 1986 Acid deposition in the Western United States (with C. Epstein and R. Yuhnke). *Science (Letters)*, **233**, 10.
- 1986 Empirical relation between sulfur dioxide emissions and acid deposition derived from monthly data (with C. Epstein). *Nature*, **323**, 245.
- 1987 Stratospheric sulphate production and the photochemistry of the Antarctic circumpolar vortex. *Nature*, **328**, 702.
- 1988 Restoration of the Chesapeake Bay: A Multi-State Institutional Challenge (with J. T. B. Tripp). *Maryland Law Review*, **47**, 425.
- 1989 Climate change and environmental pollution: physical and biological interactions. *Climatic Change*, **15**, 255.
- 1989 Developing policies for responding to climate change. *Climatic Change* **15**, 1-4.
- 1991 Atmospheric nitrate deposition and the Chesapeake Bay estuary (with D. C. Fisher). *Ambio*, **20**, 102.

(Michael Oppenheimer)

- 1991 Carbon dioxide and temperature (with J. B. Marston, R. M. Fujita and S. R. Gaffin). *Nature* (Scientific Correspondence), **349**, 573.
- 1993 Pondering greenhouse policy. *Science* (Letters), **259**, 1382.
- 1994 Reservoir timescales for anthropogenic CO₂ in the atmosphere (with B. C. O'Neill, S. R. Gaffin, and F. N. Tubiello). *Tellus*, **46B**, 378.
- 1995 Impulse-response functions and anthropogenic CO₂ (with F. N. Tubiello). *J. Geophysical Res. Lett.*, **22**, 413.
- 1995 Comment on “The lifetime of excess atmospheric carbon dioxide” by Berrien Moore III and B. H. Braswell (with S. R. Gaffin and B. C. O'Neill). *Global Biogeochemical Cycles*, **9**, 167.
- 1997 Measuring time in the greenhouse: an editorial essay (with B. C. O'Neill and S. R. Gaffin). *Climatic Change*, **37**, 491.
- 1998 Global warming and the stability of the West Antarctic ice sheet. *Nature*, **393**, 325.
- 1998 Long-term scenarios for aviation: demand and emissions of CO₂ and NO_x (with A. Vedantham). *J. Energy Policy* **26**, 625.
- 2000 Counting the cost of deforestation (with R. Bonnie, S. Schwartzman, and J. Bloomfield). Perspectives: Environmental Policy, *Science* **288**, 1763-1764.
- 2002 Book Review: *The Carbon War: Global Warming and the End of the Oil Era*. *Climatic Change*, **54**, 497-505
- 2002 Dangerous climate impacts and the Kyoto Protocol (with B.C. O'Neill). *Science* **296**, 1971-2.
- 2003 On past temperatures and anomalous late-20th century warmth (with 12 co-authors). *Eos* **84**, 256-8.
- 2003 Response (to comments on, On past temperatures and anomalous late-20th century warmth, with 12 co-authors). *Eos* **84**, 473-4.
- 2003 Book Review: *Atmospheric Pollution: History, Science, and Regulation*. *Physics Today* **56**, 65-66.
- 2004 The West Antarctic Ice Sheet and Long Term Climate Policy (with R.B. Alley). *Climatic Change*, **64**, 1-10.
- 2004 Climate Change Impacts Sensitive to Path to Stabilization (with B.C. O'Neill).

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- Proc. Nat. Acad. Sci.* **101**, 16411–16416, doi_10.1073_pnas.0405522101.
- 2004 Book Review: *The Discovery of Global Warming*. *J. Environmental Hist.*, **9**, 327-8.
- 2004 The influence of climate on in-stream removal of nitrogen (with S.D. Donner and C.J. Kucharik). *Geophys. Res. Letters*, **31**, L20509, doi:10.1029/2004GL020477.
- 2005 Ice Sheets, Global Warming, and Article 2 of the UNFCCC (with R.B. Alley). *Climatic Change* **68**, 257-267.
- 2005 Global Assessment of Coral Bleaching and Required Rates of Adaptation under Climate Change (with S.D. Donner, W.J. Skirving, C.M. Little, and O. Hoegh-Guldberg). *Global Change Biology*, **11**, 1–15, doi: 10.1111/j.1365-2486.2005.01073.x
- 2005 Article 2 of the UNFCCC: Historical Origins, Recent Interpretations (with A. Petsonk). *Climatic Change* **73**, 195-226.
- 2005 Attribution of Regional Radiative Forcing Due to Tropospheric Ozone: A Step Toward Climate Credit for Reductions in Emissions of Ozone Precursors (with V. Naik, D. Mauzerall, L. Horowitz, D. Schwarzkopf, V. Ramaswamy). *J. Geophys. Res.*, **110**, D24306, doi:10.1029/2005JD005908
- 2005 Avoiding Dangerous Anthropogenic Interference with the Climate System (with K. Keller, M. Hall, S.-R. Kim, and D. F. Bradford). *Climatic Change* **73**, 227-238
- 2005 Defining Dangerous Anthropogenic Interference: The Role of Science, The Limits of Science. *Risk Analysis* **25**, 1-9
- 2006 Interim Targets and the Climate Treaty Regime (with Brian C. O’Neill, & Annie Petsonk). *Climate Policy* **5**, 639-645.
- 2006 Global Warming: The Psychology of Long Term Risk (with A. Todorov). *Climatic Change*, **77**, 1–6, DOI: 10.1007/s10584-006-9086-6.
- 2006 Science and Environmental Policy: The Role of Nongovernmental Organizations, *Social Research*, **73**, 881-90.
- 2006 Coral Reefs Reduce Tsunami Impact in Model Simulations (with C. Kunkel and R. Hallberg). *Geophys. Res. Lett.* **33**, L23612, doi:10.1029/2006GL027892.
- 2006 Learning and Climate Change (with many authors), *Climate Policy* **6**, 585–589.

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- 2007 Model-based Assessment of the Role of Human-induced Climate Change in the 2005 Caribbean Coral Bleaching Event (with S.D. Donner and T.R. Knutson). *Proc Natl Acad Sci*, doi:10.1073/pnas.0610122104
- 2007 A “Manhattan Project” for Climate Change? (C-J Yang, M Oppenheimer), *Climatic Change* **80**, 199-204, 10.1007/s10584-006-9202-7.
- 2007 On the Sensitivity of Radiative Forcing from Biomass Burning Aerosols and Ozone to Location of Emissions (V.Naik, et al), *Geophys. Res. Letters*, **34**, L03818, doi:10.1029/2006GL028149.
- 2007 Carbon Trading over Taxes (B. Chameides, M Oppenheimer), *Science*, **315**, 1670.
- 2007 The regrets of procrastination in climate policy (K. Keller, et al), *Environmental Research Letters*, **2**, 024004 (4pp) doi:10.1088/1748-9326/2/2/024004.
- 2007 The Limits of Consensus (M Oppenheimer et al), *Science* **317**, 1505-6.
- 2007 The Economics of the Thermohaline Circulation – A Problem with Multiple Thresholds of Unknown Locations (with E. Nævdal). *Resource and Energy Economics* **29**, 262-283.
- 2007 Towards a New Generation of Ice Sheet Models (CM Little et al), *Eos* **88**, 578-9.
- 2008 Learning about ozone depletion (PJ Crutzen and M Oppenheimer), *Climatic Change* **89**, 143-154 DOI 10.1007/s10584-008-9400-6.
- 2008 The potential impacts of sea level rise on the coastal region of New Jersey, USA (MP Cooper, MD Beevers, M Oppenheimer), *Climatic Change* **90**, 475–492, DOI 10.1007/s10584-008-9422-0.
- 2008 Atmospheric stabilization and the timing of carbon mitigation (BK Mignone et al), *Climatic Change* **88**, 251-265 DOI 10.1007/s10584-007-9391-8.
- 2008 Book Review: An outspoken scientist, *Nature Reports Climate Change*, Published online: 16 January 2008|doi:10.1038/climate.2008.3
- 2008 A closer look at the IPCC report-Response (M Oppenheimer, BC O’Neill, M Webster, S Agrawala), *Science* **319**, 410 (in Letters)
- 2008 The boundaries of the thinkable: environmentalism in the early twenty-first century (P Tetlock and M Oppenheimer), *Dedalus* **137**, 59–70.

(Michael Oppenheimer)

- 2008 A physical science perspective on disaster: through the prism of global warming (M Oppenheimer), *Social Research* **75**, 659-668.
- 2008 Negative learning (M Oppenheimer, BC O'Neill, M Webster), *Climatic Change* **89**, 155-172 DOI 10.1007/s10584-008-9405-1.
- 2009 Climate change and plant invasions: restoration opportunities ahead? (BA Bradley, M Oppenheimer, DS Wilcove), *Global Change Biology*, **15**, 1511–1521, doi: 10.1111/j.1365-2486.2008.01824.x.
- 2009 Assessing dangerous climate change through an update of the Intergovernmental Panel on Climate Change (IPCC) ‘‘reasons for concern’’ (J Smith et al), *Proc Natl Acad Sci* **106**, 4133-4137
(<http://www.pnas.org/content/106/11/4133.full>).
- 2009 Climate change increases risk of plant invasion in the Eastern United States (B Bradley, D Wilcove, M Oppenheimer), *Biological Invasions*, DOI 10.1007/s10530-009-9597-y.
- 2009 Ice shelf morphology and the efficiency of basal melting (CM Little, A Gnanadesikan, M Oppenheimer), *J. Geophysical Res.* **114**, C12007, doi:10.1029/2008JC005197.
- 2009 Probabilistic assessment of sea level during the Last Interglacial stage (RE Kopp et al), *Nature* **462**, 963-868, doi:10.1038/nature08686.
- 2009 Toward ethical norms and institutions for geo-engineering research (D Morrow, R Kopp, M Oppenheimer), *Environ. Res. Lett.* **4**, p.1-8 doi:10.1088/1748-9326/4/4/045106.
- 2009 A force to fight global warming (WR Turner, M Oppenheimer, DS Wilcove), *Nature* **462**, 278-9.
- 2009 Fixing a critical climate accounting error (T Searchinger et al), *Science* **326**, 527–528, DOI: 10.1126/science.1178797.
- 2009 *Climatic Change Letters* inaugural editorial (SH Schneider, M Oppenheimer), *Climatic Change* **97**, 1–2, DOI 10.1007/s10584-009-9751-7.
- 2010 Climate change: Helping Nature survive the human response (WR Turner et al), *Conservation Letters* **3**, 304-312 doi: 10.1111/j.1755-263X.2010.00128.x.
- 2010 Nitrogen cycling and feedbacks in a global dynamic land model, (S Gerber et al), *Global Biogeochem. Cycles*, **24**, GB1001,

(Michael Oppenheimer)

doi:10.1029/2008GB003336.

- 2010 Urbanization, climate change and flood policy in the United States (AA Ntelekos et al), *Climatic Change* **103**, 597-616 [DOI 10.1007/s10584-009-9789-6].
- 2010 Climatic change letters: a modest effort to address a gigantic problem, *Climatic Change* **100**, 7-10, DOI 10.1007/s10584-010-9837-2 (editorial).
- 2010 Carbon Calculations to Consider-Response (Searchinger et al), *Science* **327**, 781 [DOI: 10.1126/science.327.5967.781-a] (in Letters).
- 2010 Bioenergy: Counting on Incentives-Response (Searchinger et al), *Science* **327**, 1200-1201 [DOI: 10.1126/science.327.5970.1200-a] (in Letters).
- 2010 Linkages among climate change, crop yields and Mexico–US cross-border migration (S Feng, A Krueger, M Oppenheimer), *Proc Natl Acad Sci*, **107**, 14257–14262 www.pnas.org/cgi/doi/10.1073/pnas.1002632107.
See also www.pnas.org/cgi/doi/10.1073/pnas.1212226109 for Correction.
- 2011 Characterizing uncertainty in expert panel assessments (J O’Reilly, et al), *WIREs Clim Change* **2**, 728–743 DOI: 10.1002/wcc.135
- 2011 Exploring high-end scenarios for local sea level rise to develop flood protection strategies for a low-lying delta - the Netherlands as an example (CA Katsman, et al), *Climatic Change* **109**, 617-645 DOI: 10.1007/s10584-011-0037-5
- 2011 The Politics and Policy of Carbon Capture and Storage: Framing an Emergent Technology (K Backstrand, J Meadowcroft, M Oppenheimer), *Global Environmental Change*, **21**, 275–281doi:10.1016/j.gloenvcha.2011.03.008
- 2011 Evaluation, Characterization, and Communication of Uncertainty by the Intergovernmental Panel on Climate Change (G Yohe, M Oppenheimer), *Climatic Change* **108**:629–639 DOI 10.1007/s10584-011-0176-8
- 2012 Predicting how adaptation to climate change could affect ecological conservation: secondary impacts of shifting agricultural suitability (B Bradley et al), *Diversity and Distributions*, **18**, 425-437 <http://onlinelibrary.wiley.com/doi/10.1111/j.1472-4642.2011.00875.x/pdf>
- 2012 The Rapid Disintegration of Predictions: Climate Science, Bureaucratic Institutions, and the West Antarctic ice sheet (J O’Reilly, N Oreskes, M Oppenheimer), *Social Studies of Science* **42**, 709-731 DOI: 10.1177/0306312712448130, at <http://sss.sagepub.com/content/early/2012/06/26/0306312712448130>
- 2012 On the coupled response to ice shelf basal melting (CM Little, D Goldberg,

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- A Gnanadesikan, M Oppenheimer), *Journal of Glaciology* **58**, 203-215
doi: 10.3189/2012JoG11J037
- 2012 Climate Change Impacts: Accounting for the Human Response (M Oppenheimer),
Climatic Change **117**, 439-449 (2013); DOI 10.1007/s10584-012-0571-9
- 2012 Physically-based Assessment of Hurricane Surge Threat under Climate Change (N Lin, K Emanuel, M Oppenheimer, E Vanmarcke), *Nature Climate Change* **2**, 462-467
DOI: 10.1038/NCLIMATE1389
- 2012 Simulation of ocean-land ice interactions through a strongly thermally-forced ice shelf, Part 1: Model description and behavior (Goldberg et al), *J. Geophys. Res. E*,
DOI: 10.1029/2011JF002246
- 2012 Simulation of ocean-land ice interactions through a strongly thermally-forced ice shelf, Part 2: Sensitivity to external forcings (Goldberg et al), *J. Geophys. Res. E*,
DOI: 10.1029/2011JF002247
- 2012 Applying statistical models of the climate-migration relationship (S Feng, M Oppenheimer), *PNAS* **109**, E2915 www.pnas.org/cgi/doi/10.1073/pnas.1212226109
- 2013 Climate change prediction: erring on the side of least drama? (Brysse et al),
Global Environmental Change, **23**, 327-337
<http://dx.doi.org/10.1016/j.gloenvcha.2012.10.008>
- 2013 A probabilistic assessment of sea level variations within the Last Interglacial stage (R Kopp et al), *Geophysical Journal International*; doi: 10.1093/gji/ggt029
- 2013 Projected climate impacts to South African maize and wheat production in 2055: A comparison of empirical and mechanistic modeling approaches (L Estes et al),
Global Change Biology doi: 10.1111/gcb.12325
- 2013 Building a More Effective Global Climate Regime through a Bottom-Up Approach (with RB Stewart and B Rydek), *Stanford Environmental Law Journal* **32**, 341-392.
- 2013 Quantum Cascade Laser-based Sensing for Carbon Sequestration Leakage Monitoring (M Escarra et al), *IEEE Sensors Journal*, DOI 10.1109/JSEN.2013.2253731
- 2013 Comparing mechanistic and empirical model projections of crop suitability and productivity: Implications for ecological forecasting (Estes et al), *Global Ecology and Biogeography*, <http://onlinelibrary.wiley.com/doi/10.1111/gcb.12034/pdf>.
- 2013 Probabilistic framework for assessing the ice sheet contribution to sea level change (CM Little, NM Urban, M Oppenheimer), *PNAS* **110**, 3264-69
<http://www.pnas.org/content/110/9/3264.full.pdf+html>

(Michael Oppenheimer)

- 2013 Upper bounds on twenty-first-century Antarctic ice loss assessed using a probabilistic framework (CM Little, M Oppenheimer, NM Urban), *Nature Climate Change* **3**, 654-659 doi:10.1038/nclimate1845
<http://www.nature.com/nclimate/journal/vaop/ncurrent/full/nclimate1845.html>
- 2013 Norms and Abnormal Problems: Behaviors, Values, and Global Problems (A Kinzig et al), *BioScience* **63**,164-175 <http://www.jstor.org/stable/info/10.1525/bio.2013.63.3.5>
- 2013 A New Strategy for Global Climate Protection (RB Stewart, M Oppenheimer, B Rudyk), *Climatic Change* **120**, 1-12 DOI 10.1007/s10584-013-0790-8
<http://link.springer.com/article/10.1007/s10584-013-0790-8/fulltext.html>
- 2014 On the Design of an International Governance Framework for Geoengineering (ID Lloyd, M Oppenheimer), *Global Environmental Politics* **14**:2, May 2014, doi:10.1162/GLEP_a_00228
- 2014 Using Changes in Agricultural Value to Quantify Future Climate-Induced Risk to Conservation (Estes et al), *Conservation Biology*, DOI: 10.1111/cobi.12205
- 2014 The Effectiveness of Cool and Green Roofs as Urban Heat Island Mitigation Strategies (D Li, E Bou-Zeid, M Oppenheimer), *Environ. Res. Lett.* **9** (2014) 055002
[doi:10.1088/1748-9326/9/5/055002](http://dx.doi.org/10.1088/1748-9326/9/5/055002)
- 2014 Estimating the Spatially Varying Responses of Corn Yields to Weather Variations Using Geographically Weighted Panel Regression (Cai, Yu, and Oppenheimer), *Journal of Agricultural and Resource Economics*, **39**, 230–252.
- 2014 Nonlinear permanent migration response to climatic variations but minimal response to disasters (P Bohra- Mishra, M Oppenheimer, and S Hsiang), *PNAS* **27**, 9780-85
www.pnas.org/cgi/doi/10.1073/pnas.1317166111
- 2014 The Ethics of Scientific Communication under Uncertainty (R Keohane, M Lane, M Oppenheimer) *Politics, Philosophy, and Economics*, 1-26 DOI: 10.1177/1470594X14538570
<http://ppe.sagepub.com/content/early/recent>
- 2014 Probabilistic 21st and 22nd century sea-level projections at a global network of tide gauge sites (RE Kopp et al), *Earth's Future* **2**, 383-406
<http://onlinelibrary.wiley.com/doi/10.1002/2014EF000239/abstract>
- 2014 Improve economic models of climate change (Revesz et al), *Nature*, **508**, 173-175
- 2014 International Migration Desires Related to Subjective Well-Being (R Cai et al), *IZA Journal of Migration*, 2014, 3:8 doi:10.1186/2193-9039-3-8,
<http://www.izajom.com/content/3/1/8>

(Michael Oppenheimer)

- 2014 Warming goal: still the best indicator (M Oppenheimer), *Nature (Correspondence)* **514**, 434.
- 2015 Uncertainty in 21st century CMIP5 sea level projections (Little et al), *JClim* **28**, 838-852 DOI: 10.1175/JCLI-D-14-00453.1.
- 2015 Developing country finance in a post-2020 global climate agreement (P Hannam, Z Liao, SJ Davis, M Oppenheimer), *Nature Climate Change* **5**, 983–987 doi:10.1038/nclimate2731.
- 2015 Joint projections of US east coast sea level and storm surge (Little et al), *Nature Climate Change* **5**, 1114-1121 DOI: 10.1038/NCLIMATE2801.
- 2015 New York City Panel on Climate Change 2015 Report Chapter 2: Sea Level Rise and Coastal Storms (Horton et al) *Proc NY Acad Sci*, **36**, 1336–44 doi: 10.1111/nyas.12593
- 2015 Adapting to Climate Change: Rising Seas, Limiting Risks (M Oppenheimer) *Social Research* **82**, 673-680.
- 2015 Push renewables to spur carbon pricing (Wagner et al), *Nature* **525**, 27-29.
- 2016 Expert Judgment and Uncertainty Quantification for Climate Change (M Oppenheimer, CM Little, RM Cooke), *Nature Climate Change*, **6**, 445-451.
- 2016 Climate Variability and International Migration: The Importance of the Agricultural Linkage (R Cai et al), *J Environ Econ Management* **79**, 135-151 <http://dx.doi.org/10.1016/j.jeem.2016.06.005>.
- 2016 The Science of Climate Change (M Oppenheimer, JK Anttila-Hughes), *Future of Children* **26**, 13-30.
- 2016 Climate Change and Migration in the Philippines (Bohra-Mishra et al), *Population and Environment*, <http://rdcu.be/mFnl>.
- 2016 Mapping the climate change challenge (Hallegatte et al), *Nature Climate Change*, **6**, 663-668.
- 2016 The Influence of Climate Variability on Internal Migration Flows in South Africa (Mastrorillo et al), *Global Environmental Change* **39**, 155-169.
- 2016 Beyond the Climate Dead End Through Pledge and Review? (RO Keohane and M Oppenheimer). *Politics and Governance* **4**, 142-151 doi: 10.17645/pag.v4i3.634.

(Michael Oppenheimer)

- 2016 Make climate-change assessments more relevant (Hallegatte, Mach, et al).
Nature,
[http://www.nature.com/news/make-climate-change-assessments-more-relevant- 1.20155](http://www.nature.com/news/make-climate-change-assessments-more-relevant-1.20155)
- 2016 Allowances for evolving coastal flood risk under uncertain local sea-level rise (Buchanan et al). *Climatic Change* **137**, 347–36.
- 2016 How high will the seas rise? (M Oppenheimer, RB Alley), *Science* **354**, 1375-77.
- 2017 Key Risks of Climate Change: The IPCC Reasons for Concern, (O’Neill et al),
Nature Climate Change **7**, 28-37 <http://rdcu.be/ohnY>.
- 2017 Drivers of adaptive behavior in response to coastal flood risk and external Stressors (M Buchanan and M Oppenheimer), submitted to *Climatic Change*
- 2017 Climate response to the meltwater runoff from Greenland Ice Sheet: evolving sensitivity to discharging locations (Liu et al), submitted to *Climate Dynamics*
- 2017 Leakage risks of geologic CO2 storage and the impacts on the global energy system and climate mitigation" (Deng et al), submitted to *Climatic Change*
- 2017 Unmask temporal tradeoffs in climate policy debates (I Ocko et al), *Science* **356**, 492-93.
- 2017 Climate Change, Crop Yields, and Internal Migration in the United States (S Feng, M Oppenheimer, W Schlenker), submitted to *J Environ Econ Management*
NBER working paper 17734 at <http://www.nber.org/papers/w17734>.
- 2017 Social Cost of Carbon: Global Imperative (Revesz et al, Letter to the Editor).
Review of Environmental Economics and Policy **11**, 172–173 doi:10.1093/reep/rew022
- 2017 The Intergovernmental Panel on Climate Change: Challenges and Opportunities_ (Vardy et al), submitted to *Ann. Rev. Environment and Resources*
- 2017 The Relative Influences of Climate and Crop Subsidies in Shaping Agricultural Land Use and Productivity (Mastrorillo et al), submitted to *Global Environmental Change*
- 2017 Amplification of flood frequencies with local sea level rise and emerging flood regimes (M Buchanan, M Oppenheimer, R Kopp), in press, *Environ. Res. Lett.*
- 2017 Implications of ice-shelf hydrofracturing and ice-cliff collapse mechanisms for sea-level projections (Kopp et al), submitted to *Earth’s Future*.
- 2017 Evaluating the economic cost of coastal flooding (Desmet et al), submitted to *Nature Climate Change*.

(Michael Oppenheimer)

2017 Building Blocks: A Strategy for Near-term Action within the New Global Climate Framework (RB Stewart, M Oppenheimer, B Rudyk), *Climatic Change*, in press

2017 Estimating Economic Damage from Climate Change in the United States (Hsiang et al), submitted to *Science*

2017 Evaluating Tropical Cyclone Size in Reanalysis Datasets using QuikSCAT Data (Schenkel et al), submitted to *Journal of Climate*

Authorship of IPCC and NAS/NRC Reports

1990 *Climate Change: the IPCC Scientific Assessment* [First Assessment Report, Contributing Author, WGII Chapter 5] (Cambridge University Press, Cambridge, UK)

1996 *Climate Change 1995: The Science of Climate Change*. Contribution of Working Group I to the *Second Assessment Report of the Intergovernmental Panel on Climate Change*, Chapter 8, “Detection of Climate Change and Attribution of Causes,” (Cambridge University Press, Cambridge, UK). [Contributing Author].

1997 *The Atmospheric Effects of Stratospheric Aircraft Project: An Interim Review of Science and Progress*, **National Research Council Panel Report** (National Academy Press, Washington, DC).

1998 *A Review of NASA’s Atmospheric Effects of Stratospheric Aircraft Project*, **National Research Council Panel Report** (National Academy Press, Washington, DC).

2001 *Climate Change 2001: The Science of Climate Change*. Contribution of Working Group I to the *Third Assessment Report of the Intergovernmental Panel on Climate Change*, Chapter 11, “Changes in Sea Level,” (Cambridge University Press, Cambridge, UK) [Contributing Author]

2001 *Climate Change 2001: The Science of Climate Change*. Contribution of Working Group I to the Third Assessment Report of the *Intergovernmental Panel on Climate Change*, Technical Summary [Lead Author] and Summary for Policymakers [Drafting Team] (Cambridge University Press, Cambridge, UK).

2007 Assessing Key Vulnerabilities and the Risks from Climate Change (SH Schneider et al), in *Climate Change 2007: Impacts, Adaptation and Vulnerability*. Contribution of Working Group II to the *Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 779-810. [Lead Author]

2007 Technical Summary. *Climate Change 2007: Impacts, Adaptation and Vulnerability* (M Parry et al). Contribution of Working Group II to the *Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry,

(Michael Oppenheimer)

- O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 23-78. [Lead Author]
- 2007 IPCC, 2007: Summary for Policymakers. In: *Climate Change 2007: Impacts, Adaptation and Vulnerability*. Contribution of Working Group II to the *Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 7-22. [Drafting Team]
- 2007 Climate Variability and Change (**National Research Council** Panel Report), in *Earth Science and Applications from Space: National Imperatives for the Next Decade and Beyond* (National Academy Press, Washington, DC), Ch.9.
- 2009 *Liquid Transportation Fuels from Coal and Biomass*, Report of the Panel on Alternative Liquid Transportation Fuels, **National Research Council** (National Academies Press, Washington, DC).
- 2011 *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation, Special Report of the Intergovernmental Panel On Climate Change*. Summary for Policy Makers [Drafting Team member]
- 2012 **Lavell, A., M. Oppenheimer, C. Diop, J. Hess, R. Lempert, J. Li, R. Muir-Wood, and S. Myeong**, 2012: Climate change: new dimensions in disaster risk, exposure, vulnerability, and resilience. In: *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation* [Field, C.B., V. Barros, T.F. Stocker, D. Qin, D.J. Dokken, K.L. Ebi, M.D. Mastrandrea, K.J. Mach, G.-K. Plattner, S.K. Allen, M. Tignor, and P.M. Midgley (eds.)]. *A Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change (IPCC)*. Cambridge University Press, Cambridge, UK, and New York, NY, USA, pp. 25-64. [Coordinating Lead Author]
- 2014 **Oppenheimer, M., M. Campos, R. Warren, J. Birkmann, G. Luber, B. O'Neill, and K. Takahashi**, 2014: Emergent risks and key vulnerabilities. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects*. Contribution of Working Group II to the *Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Field, C.B., et al (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp.1039-1099. [Coordinating Lead Author]
- 2014 **IPCC**, 2014: Summary for policymakers. In: *Climate Change 2014: Impacts, Adaptation, And Vulnerability Part A: Global and Sectoral Aspects*. Contribution of Working Group II to the *Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Field, et al (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1-32 [Drafting Team]
- 2014 IPCC, 2014 *Synthesis Report of the Fifth Assessment, Intergovernmental Panel on Climate Change* [Core Writing Team]

(Michael Oppenheimer)

Book Chapters (also see IPCC and NAS/NRC Reports, above)

- 1986 The Implications of Health and Environmental Effects for Policy (with D. J. Dudek), in *Effects of Changes in Stratospheric Ozone and Global Climate*, Vol. 1, U.S. E.P.A.
- 1989 Vulnerable Ecosystems, in *Ozone Depletion: Health and Environmental Consequences* (John Wiley & Sons, Chichester, UK) Ch. 9.
- 1990 The Atmosphere and the Future of the Biosphere: Points of Interactive Disturbance, in *The Earth in Transition: Patterns and Processes of Biotic Impoverishment* (Cambridge University Press, New York) p.111.
- 2003 Global Warming: The Intersection of Long-Term Goals and Near-Term Policy (with A. Petsonk), in *Michel, D. (ed.), Climate Policy for the 21st Century: Meeting the Long-Term Challenge of Global Warming*, Center for Transatlantic Relations, Johns Hopkins University, Washington, pp.79-112.
- 2005 Emissions Pathways to Avoid Dangerous Climate Change: A Transatlantic View (with C. Jaeger) in *Options for Future Climate Policy: Transatlantic Perspectives*, German Institute for International and Security Affairs, Berlin.
- 2007 How Warm is Too Warm: Avoiding Dangerous Climate Change, in International Science School lecture series, University of Sydney, Australia.
- 2007 What is the economic value of information about climate thresholds? (with several authors), in: *Human-induced Climate Change: An Interdisciplinary Assessment*, ed. Michael Schlesinger, H. Kheshgi, J. Smith, F. de la Chesnaye, J. M. Reilly, T. Wilson and C. Kolstad. Published by Cambridge University Press. Cambridge University Press 2007.
- 2009 Understanding the causes and implications of climate change, in *Climate Finance: Regulatory and Funding Strategies for Climate Change and Global Development* R Stewart, B Kingsbury, B Rudyk, eds, NYU press, at www.climatefinance.org.
- 2011 Political legitimacy in decisions about experiments in solar radiation management (DR Morrow, RA Kopp, M Oppenheimer), in *Climate Change Geoengineering: Philosophical Perspectives, Legal Issues, and Governance Frameworks* (William C.G. Burns & Andrew Strauss, editors, 2011, Cambridge University Press)
- 2011 Climate Change and World Cities, in *Rising Currents: Projects for New York's Waterfront*, MOMA (New York).

(Michael Oppenheimer)

2015 Opening Commentary, *America's Climate Future* in Houser et al, Economic Risks of Climate Change, Columbia University Press, New York.

2015 A building blocks strategy for global climate change, in *Towards a Workable and Effective Climate Regime* (S Barrett, C Carraro, and J de Melo, eds), Shamdasani Publishing Services Ltd., UK, chapter 15. At voxeu.org/content/towards-workable-and-effective-climate-regime

Books, Journal Volumes

1989 Guest Editor, *Climatic Change* **vol. 15** Special Issue. *Greenhouse Gas Emissions: Environmental Consequences and Policy Responses*.

1990 *Dead Heat: The Race Against The Greenhouse Effect* (with R. H. Boyle). (Basic Books, New York).

2006 Guest Editor, *Climatic Change* **vol. 77**, Nos.1-2 Special Issue: Global Warming: The Psychology of Long Term Risk.

2011 Guest Editor, Special Issue on Carbon Capture and Storage, *Global Environmental Change*.

Other Publications

1978 What are comets made of? *Natural History*, **87**, 42.

1980 The comet syndrome (with L. Haimson). *Natural History*, **89**, 54.

1984 Reducing Acid Rain: The Scientific Basis for an Acid Rain Control Policy. Environmental Defense Fund, New York (also appeared as “Reducing Acid Rain in Eastern North America: The Scientific Basis for an Acid Rain Control Policy” in *Journal of Law Reform, University of Michigan*, **19**, 989 (1986).

1984 Safeguarding Acid-Sensitive Waters in the Intermountain West (with R. Yuhnke). Environmental Defense Fund, New York.

1985 Is There Scientific Consensus on Acid Rain? Report of Ad Hoc Committee on Acid Rain: Science and Policy.

1986 Thresholds for Acidification: A Framework for Policy and Research. Environmental Defense Fund, New York.

1986 New York City's Water Supply: Acid Deposition, Inorganic Pollution, and the Catskill Reservoirs (with J. Ceraso, C. B. Epstein, and S. L. Clark). Environmental Defense

(Michael Oppenheimer)

- Fund, New York.
- 1988 Global Lessons From The Ozone Hole. Environmental Defense Fund, New York.
- 1988 Polluted Coastal Waters: The Role of Acid Rain (with D. Fisher, J. Ceraso, and Matthew). Environmental Defense Fund, New York.
- 1988 Contributor to Developing Policies For Responding To Climatic Change, World Meteorological Organization.
- 1994 Aircraft Emissions and the Global Atmosphere: Long-term Scenarios (with A. Vedantham.) Environmental Defense Fund, New York.
- 1995 The Way Things *Really* Are: Debunking Rush Limbaugh on the Environment (with L. Haimson and D. Wilcove). Environmental Defense Fund, New York.
- 1995 Context, Connection, and Opportunity in Environmental Problem Solving. *Environment Magazine*, **10**.
- 1996 A Moment of Truth: Correcting the Scientific Errors in Gregg Easterbrook's A Moment on the Earth, Part One (with D. S. Wilcove and M. J. Bean). Environmental Defense Fund, New York.
- 1996 A Moment of Truth: Correcting More Errors in Gregg Easterbrook's A Moment on the Earth, Part Two (with L. Blum, et al.). Environmental Defense Fund, New York.
- 1999 Contributing author, Common Questions About Climate Change. United Nations Environment Programme and World Meteorological Organization.
- 1999 Sustainability And Renewal of Civil Infrastructure: An Environmental Perspective (with Michael Replogle). Presented at a conference organized by the Institute for Civil Infrastructure Systems; New York University.
- 2003 Climate Change: The Case for Long Term Targets, prepared for *High-Level Transatlantic Dialogue on Climate Change*, German Institute for International and Security Affairs and the Brookings Institution, October 17.
- 2003 Global Climate Change, prepared for *Old Rules and New Threats*, Council on Foreign Relations, September 19.
- 2004 Reinvigorating the Kyoto System and Beyond: Maintaining the Fundamental Architecture, Meeting Long-Term Goals, prepared for *Leaders' Summit on Post-Kyoto Architecture: Toward an L20?* (with A. Petsonk), Council on Foreign Relations, September 20-21.
- 2005 The Latest Myths and Facts on Global Warming (with James D. Wang),

(Michael Oppenheimer)

Environmental Defense.

- 2005 Future of Sea Level Rise and the New Jersey Coast: Assessing Potential Impacts and Opportunities (With M.J.P. Cooper and M. Beevers) November 16, 2005
- 2006 Linked Regimes to Solve the Timing Problem for Global Warming (with A. Petsonk), Prepared for the conference on Nesting and Overlapping Institutions, Woodrow Wilson School, Princeton University, 24 February 2006.
- 2007 Report of the Ice Sheet Modeling Workshop (with many authors), 8 January 2007
- 2008 Exploring high-end climate change scenarios for flood protection of the Netherlands (Vellinga et al), a report to the Delta Committee of the Netherlands, September.
- 2011 What Roles Can Scientists Play in Public Discourse?, *Eos* **92**, 133-134
- 2011 Obituary: Stephen Henry Schneider, *Physics Today*, January, pp.66-7
- 2013 Climate Risk Information 2013, NYC Panel on Climate Change, NYC Mayor's Office June
- 2014 Plug methane leaks in the booming natural gas industry, *Scientific American*, April 4.
- 2015 What Role for Scientists? (N Oreskes, D Jamieson, M Oppenheimer, in *Sustainable Humanity, Sustainable Nature, Our Responsibility*, P.S. Dasgupta, V Ramanathan, and M Sanchez Sorondo, eds., Pontifical Academy of Sciences and Pontifical Academy of Social Sciences, Proceedings of a Joint Workshop, p.617-649
- 2015 Science and Policy: Crossing the Boundary (D Jamieson, N Oreskes, M Oppenheimer), *Bulletin of the Atomic Scientists*, **71**, 53-58 DOI: 10.1177/0096340214563675 <http://thebulletin.sagepub.com>