CURRICULUM VITAE

(June 2022)

MICHAEL OPPENHEIMER

Albert G. Milbank Professor of Geosciences and International Affairs
Department of Geosciences
School of Public & International Affairs
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Director, Center for Policy Research on Energy and the Environment of the School of Public and International Affairs, Princeton University

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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 Review Editor, 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

	1971-73 1971-81 1978-79 1981-96 1995 -2002	Research Fellow, Harvard College Observatory Astrophysicist, Harvard-Smithsonian Center for Astrophysics Visiting Astronomer, University of California, Santa Cruz Senior Scientist, Environmental Defense Fund (EDF) Manager, Global / Regional Air Program, EDF				
	1996 -2002 2002-	Chief Scientist, EDF 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 Coalition				
	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				

Teaching Assistant, University of Chicago

1988-95	Advisory Board, Pace University Center for Environmental Legal
1700-73	Studies
1989-95	NASA Advisory Committee on the Atmospheric Effects of
	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
2001-05	Summary for Policy Makers Environment Jury, Heinz Awards, Heinz Foundation
2001-03	Trustee, Tri-State Transportation Coalition
2003-06	Steering Committee, Aldo Leopold Leadership Program
2003-00	Executive Committee, Cooperative Institute for Climate
2003	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 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
2007.0	future, American Museum of Natural History
2007-9	Editorial Board, Environmental Research Letters
2008-19	Executive Committee, Program in Sustainable Energy,
2008-	Princeton University Board of Directors, Climate Central
2008-	Advisory Board to NJDEP commissioner on establishing an SAB
2008	Coordinating Lead Author, Intergovernmental Panel on Climate
2007 12	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
2013-19	NYC Climate Change Panel, Mayor's Office AGU Climate Communication Prize Committee
2015-19 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
2016-2018	Andlinger Center Executive Committee, Princeton University
2017-20	AAAS Electorate Nominating Committee, Atm. & Hydro. Sci. Section
2017-	Board of Directors, Climate Science Legal Defense Fund
2017-19	Coordinating Lead Author, Intergovernmental Panel on Climate
	Change, Special Report of Oceans, Cryosphere and Climate Change,
	Chapter 4.
2018-21	Review Editor, Sixth Assessment Report, Intergovernmental Panel on
	Climate Change
2019-	Advisory Board, Metcalf Institute for Marine and Environmental

Reporting, URI, Advisory Board

2021- Member, Board of Directors, Trust for Governors Island, New York City

Membership in Professional Societies

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

Current and Recent Sources of Research Support

Princeton School of Public and International Affairs (ongoing)

High Meadows Foundation (ongoing)

National Science Foundation Grants: Risk Assessment and Risk Management: An Integrated Approach for Responding to Multiple Hazards from Tropical Cyclones in a Changing Climate (2015-2020); Responses to complex disruptive events: Cognition in a socio-political context (2021-2023); Large-scale CoPe: Megalopolitan Coastal Transformation Hub (MACH): Researching complex interactions between climate hazards and communities to inform governance of coastal risk (2021-2026)

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: $Na^+ + Li = Na + Li^+$ (with C. Bottcher). J. Phys. B., 5, 492.
- Eigenvalues of the 2p3p³P and 2p3d^{1,3}D 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 (LiNa)⁺ (with C. Bottcher and A. Dalgarno). *Chem. Phys. Lett.*, **15**, 24.
- 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.
- 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.

- 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 O₂⁺ ion based on Atmosphere Explorer-C composition measurements (with A. Dalgarno and H. C. Brinton). *J. Geophys. Res.*, **81**, 4678.
- Ion chemistry of N₂⁺ 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.
- 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. Harquist). *Ap. J. Lett.*, **226**, L153.
- 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.
- 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.
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- 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.
- 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.
- 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.
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- 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.
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- 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.
- Response (to comments on, On past temperatures and anomalous late-20th century warmth, with 12 co-authors). *Eos* **84**, 473-4.
- Book Review: *Atmospheric Pollution: History, Science, and Regulation. Physics Today* **56**, 65-66.
- The West Antarctic Ice Sheet and Long Term Climate Policy (with R.B. Alley). *Climatic Change*, **64**, 1-10.
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- 2004 Book Review: The Discovery of Global Warming. J. Environmental Hist., 9, 327-8.
- 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.
- 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
- 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

- 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.
- 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.
- 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
- A "Manhattan Project" for Climate Change? (C-J Yang, M Oppenheimer), *Climatic Change* **80**, 199-204, 10.1007/s10584-006-9202-7.
- 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.
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- 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.
- The Limits of Consensus (M Oppenheimer et al), *Science* **317**, 1505-6.
- The Economics of the Thermohaline Circulation A Problem with Multiple Thresholds of Unknown Locations (with E. Nævdal). *Resource and Energy Economics* **29**, 262-283.
- 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.
- 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), <i>Climatic Change</i> 88 , 251-265. DOI 10.1007/s10584-007-9391-8.
2008	Book Review: An outspoken scientist, <i>Nature Reports Climate Change</i> , 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), <i>Science</i> 319 , 410 (in Letters)
2008	The boundaries of the thinkable: environmentalism in the early twenty-first century (P Tetlock and M Oppenheimer), <i>Dedaelus</i> 137 , 59–70.
2008	A physical science perspective on disaster: through the prism of global warming (M Oppenheimer), <i>Social Research</i> 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), <i>Global Change Biology</i> , 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), <i>Proc Natl Acad Sci</i> 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), <i>Biological Invasions</i> , 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). <i>Nature</i> 462 , 963-868, doi:10.1038/nature08686.
2009	Toward ethical norms and institutions for geo-engineering research (D Morrow, R Kopp, M Oppenheimer), <i>Environ. Res. Lett.</i> 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), <i>Nature</i> 462 , 278-9.

- 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.
- 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.
- Nitrogen cycling and feedbacks in a global dynamic land model, (S Gerber et al), *Global Biogeochem. Cycles*, **24**, GB1001, doi:10.1029/2008GB003336.
- 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).
- 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
- 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**, 275–281 doi: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
- 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, 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
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