

## Curriculum Vitae

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### ROBERT W. KATES

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Date and Place of Birth: January 31, 1929, Brooklyn, New York

#### PROFESSIONAL AND CURRENT RESEARCH INTERESTS:

A sustainability transition, adaptation to global and local climate change, the prevalence and persistence of hunger; long-term population dynamics, theory of the human environment, sustainability science.

#### EDUCATION:

<u>Institution</u>	<u>Degree</u>	<u>Years</u>	<u>Subject</u>
New York University	none	1946-48	Economics
Indiana University (Gary)	none	1957	Geography
University of Chicago	M.A., Ph.D.	1958-62	Geography

#### AWARDS, FELLOWSHIPS, HONORARY MEMBERSHIPS:

1970-71      Honorary Research Professor, University of Dar es Salaam, Dar es Salaam, Tanzania.

1975 Member, National Academy of Sciences

1976 Member, American Academy of Arts and Sciences

1979 Association of American Geographers, Honors Award

1979 Fellow, Woodrow Wilson International Center for Scholars.

1980 Phi Beta Kappa, Lambda Chapter of Massachusetts, Honorary Membership

1981-85      MacArthur Prize Fellowship

1984-85      Phi Beta Kappa Visiting Lecturer

1985 Fellow, Distinguished Scholar Exchange, Committee on Scholarly Communication with the People's Republic of China.

1987 Fellow, American Association for the Advancement of Science

1988 Member, Sigma Xi

1991 U.S. National Medal of Science

1993 Foreign Member, Academia Europaea

1993 Honorary Doctor of Sciences, Clark University

1994-5      Thomas F. and William J. Gilbane Presidential Fellow, Brown University

Honorary Doctor of Sciences, University of Maine

Laureat d'Honneur, International Geographical Union

2007      Nobel Prize for Peace, With the Intergovernmental Panel on Climate Change

2008 Presidential Professor of Sustainability Science, University of Maine

#### COLLEGE TEACHING EXPERIENCE:

1962-65      Assistant Professor, Graduate School of Geography, Clark University

1965-67 Associate Professor, Graduate School of Geography, Clark University  
 1966 Staff member of AAG Summer Geography Institute for Small Southern Colleges  
 1967-68 Lecturer, Department of Geography, University College, Dar es Salaam, Tanzania  
 1968-87 Professor, Graduate School of Geography, Clark University  
 1974-80 University Professor, Clark University  
 1976 Visiting Scholar, University of Oklahoma, Norman, Oklahoma  
 1984-85 Phi Beta Kappa Visiting Lecturer  
 1986-91 University Professor, Brown University  
 1988- Affiliate Professor of Geography, Clark University  
 1991- Faculty Associate, College of the Atlantic  
 1992- University Professor (emeritus) Brown University

**RESEARCH EXPERIENCE:**

1960-62 Research Assistant to Gilbert F. White, Department of Geography, University of Chicago in studies of agricultural flood plains and urban flood damages.  
 1961-62 Doctoral research under Resources for the Future Doctoral Dissertation Fellowship.  
 1963-64 Consultant to C.W. Thornthwaite Associates and Co- Principal Investigator in study of the relation between storm hazard and coastal occupation on the east coast of the United States.  
 1963-65 Principal Investigator in a study of flood damage evaluation in the Lehigh Valley under contract with Harvard Water Resources Program.  
 1966-67 Principal Investigator in study of drought impact on the provision and planning of public water supplies in Massachusetts under a grant from Resources of the Future, Inc..  
 1966-67 Member of the Task Group on Human Dimensions of the Atmosphere of the National Center for Atmospheric Research. Principal Investigator in pilot studies related to the economic and social impacts of weather modification, under contract with the National Center for Atmospheric Research.  
 1966-67 Associate in study of methods of environmental perception and behavior analysis under a grant to Harvard University and the American Geographical Society by Resources for the Future, Inc..  
 1967-74 Co-Principal Investigator in Collaborative Research on Natural Hazards (with University of Chicago, later University of Colorado, and the University of Toronto) under a grant from the National Science Foundation.  
 1967-69 Director, Bureau of Resource Assessment and Land Use Planning, University College, Dar es Salaam, Tanzania.  
 1970 Consultant to UNESCO, Interdisciplinary Symposium on Man's Role in Changing the Environment: Architecture and Urbanism for Growth and Change.  
 1970-71 Honorary Research Professor, University of Dar es Salaam, Dar es Salaam, Tanzania.  
 1971-73 Member, Study Group on the Societal Consequences of Weather Modification, Southern Methodist University, Dallas, Texas.

1972-74 Consultant, Natural Hazard Research Assessment, Institute of Behavioral Science, University of Colorado, Boulder, Colorado.

1973-76 Associate Investigator, Disaster Reconstruction Policy Issues Study, under a grant from NSF-RANN to the University of Colorado.

1974-77 Senior Consultant, Scientific Committee on Problems of the Environment (SCOPE) Study of Environmental Risk Assessment in an International Context under a contract from the United Nations Environmental Programme and with support from the Electric Power Research Institute.

1974-77 Associate Investigator, Study of Risk Assessment of Rare Events in Nuclear Power Generation under a grant to Clark University by the Ford Foundation.

1974-77 Co-Principal Investigator, Study of Alternative Approaches to Rural Development in Least Developed Countries under a grant from the Rockefeller Foundation and with support from the Johnson Foundation.

1975-76 Co-Principal Investigator, Study of the Perceptions of the Hydrologic Cycle by Small Children, Elm Park Center for Early Childhood Education.

1975-76 Co-Principal Investigator, Review of Population, Society and Desertification under a contract from the United Nations Environmental Programme.

1976-77 Principal Investigator, Workshop on Risk Assessment and Societal Management of Technological Hazards under a grant from NSF-RANN to Clark University.

1977-79 Co-Principal Investigator, Study on Improving the Societal Management of Technological Hazards under a grant from NSF-RANN to Clark University.

1977-80 Co-Principal Investigator, Locus and Legacy: Equity Issues in Radioactive Waste Management under a grant from the National Science Foundation to Clark University.

1978-82 Co-Principal Investigator, The Effect of Climate Fluctuation on Human Populations under a grant from the National Science Foundation to Clark University.

1979-80 Principal Investigator, Report on the Comparative Impact of the 1910-15 and 1968-74 Drought in the Sahelian- Sudanic Zone of West Africa under a contract with the U.S. Agency for International Development.

1979-82 Co-Principal Investigator, Improving Public Policy for Technological Hazard Management under a grant from the National Science Foundation, Division of Policy Research and Analysis, to Clark University.

1979-82 Consultant, Study of Environmental Hazards of Small Children under a grant from the National Library of Medicine to the Elm Park Center for Early Childhood Education, Inc..

1979 Fellow, Woodrow Wilson International Center for Scholars, Study of Nature, Society and Technology: Towards a Theory of the Human Environment.

1980-81 Co-Principal Investigator, Assessing Vulnerability to Volcanic Ashfall in East Central Washington: Decision-making and Adjustment in the Agricultural Sector under a grant from the National Science Foundation to Clark University.

1981-83 Co-Principal Investigator, Labor and Laity: Equity Issues in the Differential Exposure of Workers and Publics to Technological Hazards under a grant from the National Science Foundation to Clark University.

1980-85 Review Coordinator, Project on Improving the Science of Climate Impact Assessment, International Council of Scientific Unions, Scientific Committee on Problems of the Environment (SCOPE) with support from the National Science Foundation, the National Academy of Sciences- National Research Council, and the United Nations Environment Program.

1981-87 Research Professor, Center for Technology, Environment, and Development, Clark University.

1982-85 Co-Principal Investigator, Industry as Hazard Manager, under a grant from the Russell Sage Foundation to Clark University.

1983-87 Co-Principal Investigator, Perception and Management of Pests and Pesticides, under a grant from the General Service Foundation to Clark University.

1985-87 Co-Principal Investigator, Climate Impacts, Perception, and Adjustment Experiment (CLIMPAX) under a grant from the National Science Foundation to Clark University.

1985-87 Co-Principal Investigator, Millennial Long Waves in Human Occupance: Exploring the Dynamics of Population Growth and Decline, under a grant from the National Science Foundation to Clark University.

1985-87 Co-Principal Investigator, The Global Century Scenario of Sustainable Development of the Biosphere in cooperation with the International Institute of Applied Systems Analysis.

1985 Fellow, Distinguished Scholar Exchange, Committee on Scholarly Communication with the People's Republic of China.

1986-1992 Director, Alan Shawn Feinstein World Hunger Program, Brown University, Emeritus 1993–.

1993-2012 Distinguished Scientist (1993-2007); Senior Research Scientist (2008-2012) George Perkins Marsh Institute, Clark University

1995-2003 Co-Principal Investigator, Global Change in Local Places, under a grant from NASA to the Association of American Geographers

1996-9 Senior Fellow, (emeritus 2000-) The H. John Heinz III Center for Science, Economics and the Environment

1998-2003 Associate, Visiting Scholar, Belfer Center for Science and International Affairs, Kennedy School of Government, Harvard University

2000-3 Co-Investigator, Research and Assessment Systems for Sustainability, under a grant from the National Science Foundation with contributions from the National Oceanic and Atmospheric Administration's Office of Global Programs.

2000-2 Member, Global Scenario Group

2000-4 Co-Principal Investigator, Review of Values, Attitudes and Behavior for Sustainable Development

2004-5 Visiting Scholar, Center for International Development, Kennedy School of Government, Harvard University

2005-8 Co-Principal Investigator, Recovery in New Orleans following Hurricane Katrina

2006- Senior Research Associate, Center for International Development, Kennedy School of Government, Harvard University

2007-11 Member, Oak Ridge National Laboratory Community and Regional Resilience Initiative

2008- Presidential Professor of Sustainability Science, Senator George J. Mitchell Center for Environmental and Watershed Research and Climate Change Institute, University of Maine,

2009 U. Of Colorado, Center for Science and Technology Policy Research (Research Affiliate)

**PROFESSIONAL ORGANIZATIONS AND ACTIVITIES:**

Member: Academia Europaea, American Academy of Arts and Sciences, American Association for the Advancement of Science, Association of American Geographers, National Academy of Sciences, Sigma Xi, Tanzania Society.

1962-63 Chairman, Committee on the National Inventory of Soil and Water Conservation Needs, Association of American Geographers.

1963-65 Member, Committee on Utilization of Stored Data Systems; Member of Program Committee, Association of American Geographers.

1963-64 Assistant Editor, *Economic Geography*.

1964-73 Member, Committee on the Alaska Earthquake, National Academy of Sciences - National Research Council, and Chairman of the Geography Panel (1964-67).

1965-67 Member, Committee on Geographic Information Systems, Association of American Geographers.

1965 Member, Subcommittee on Spatial Behavior, Committee on Areas for Social and Economic Analysis, Social Science Research Council.

1965-66 Vice-President, Clark Chapter, American Association of University Professors.

1966 Member, Technical Advisory Committee, Natural Disaster Studies, U.S. Home and Housing Finance Agency.

1966 Vice-President, New England Section, Regional Science Association.

1966-67 President, Clark Chapter, American Association of University Professors.

1970-76 Corresponding Member, Commission on Man and Environment, International Geographical Union.

1972-73 Member, Human Resources Task Force, State of Massachusetts, Executive Office of Environmental Affairs.

1972-82 Treasurer, (1972-78), Clerk (1979-82), Honorary Director (1986-), Elm Park Center for Early Childhood Education, Inc., Worcester, Massachusetts.

1973 Member, Science Advisory Group, Connecticut River Basin Program, New England River Basin Commission.

1973 Member, Panel on Amplitude of Coastal Surges, National Academy of Sciences - National Research Council.

1973-79 Vice-Chairman (1973), Chairman (1974-76), Member (1977-79), Directorate on Perception of Environmental Quality, Project 13, U.S. National Committee for the Man and Biosphere Program.

1973-77 Member, Assembly of Behavioral and Social Sciences, National Academy of Sciences - National Research Council.

1973-75 Member, Advisory Panel on Arid Lands of Sub-Saharan Africa, National Academy of Sciences - National Research Council.

1974-75 Member, Energy Task Force, City of Worcester, Massachusetts.

1974-76 Co-Convenor, Working Group on Man-Environment Theory, Commission on Man and Environment, International Geographical Union.

1974-76 Member, U.S. National Committee for the Man and Biosphere Program.

1976-77 Member, Advisory Committee on Appropriate Technology, American Academy of Arts and Sciences.

1976-77 Member, Advisory Committee on Desertification, American Association for the Advancement of Science.

1976-79 Member, Committee on Atmospheric Sciences, National Academy of Sciences - National Research Council.

1976-79 Member, Committee for International Environmental Programs, National Academy of Sciences - National Research Council (U.S. National Committee for the Scientific Committee on Problems of the Environment/SCOPE).

1976-85 Chairman, (1976-79), member (1979-85), Committee on Human Rights, National Academy of Sciences.

1976-78 Member, Editorial Board, *Geographical Review*.

1977-79 Member, Report Review Panel, National Academy of Sciences, National Research Council.

1979-80 Member, Climate Research Board's Panel on Effective Use of Climate Information in Government Decision- making, National Academy of Sciences.

1979-82 Member, Climate Research Board, National Academy of Sciences - National Research Council.

1979-85 Member, Committee on Climate, American Association for the Advancement of Science.

1979-81 Chairman, Governing Board Study Group on Assessment of Risk, National Academy of Sciences - National Research Council.

1980 Member, Expert Group on Climate Impact Studies, United Nations Environmental Program.

1980-82 Member, Advisory Board for Futures of New England Series, The University Press of New England.

1980-90 Member, Editorial Board, *Climate Change*.

1981-82 Member, Scientific Program Evaluation Committee, University Consortium on Atmospheric Research.

1982-88 Member, Social Science Research Council, Board of Directors, Committee on Problems and Policy.

1982-84 Member, Board of Atmospheric Science and Climate, National Academy of Sciences, National Research Council.

1982-1993 Member, American Academy of Arts and Sciences, Committee for the International Institute of Applied Systems Analysis.

1983-85 Member, Advisory Committee, Clark University Study of Safety and Sensitivity: Ethical Issues in Identifying and Protecting High-Risk Persons in the Workplace.

1983- Member, Association of American Geographers, Committee on Scientific Freedom and Responsibility.

1984-85 Member, Federal Emergency Management Agency, N.E. Earthquake Organization Workshop Steering Committee.

1984-85 Chairman, Center for Technology, Environment and Development, Clark University.

1984-85 Co-chairman, National Academy of Engineering Symposium, Hazards: Technology and Fairness.

1985-87 Member, Governing Council, Perception and Management of Pests and Pesticides Research and Development Network.

1985-87 Member, Organizing Committee, Clark University, Centennial Symposium, Earth as Transformed by Human Action.

1985-86 Member, Social Sciences Research Council, International Peace and Security Fellowship Committee.

1986-90 Member, National Council, The Federation of American Scientists.

1986-89 Member, Board of Science and Technology in Development, National Research Council.

1987 Member, United Nations Association of the U.S.A., National Steering Committee; Food on the Table: Seeking Global Solutions to Chronic Hunger.

1988-1993 Member, Editorial Board, *Annals of Association of American Geographers*.

1988-1992 Member, Committee of Advisors, International Geographical Congress, 1992

1988 Member, Panel on Food Aid Requirements for the 1990s, National Research Council

1988-1992 Member, Committee on Global Change (U.S. National Committee for the International Geosphere-Biosphere Program), National Research Council, and Chair, Working Group on Human Interactions.

1989-1992 Member, Advisory Committee, Clark University Study on Critical Environmental Zones

1990-1992 Member, Task Force on U.S. Government Organization and Participation in Science and Technology for Development, Carnegie Commission on Science, Technology, and Government

1989-1999 Coordinator (1989-91), Co-Chair (1992-) Overcoming Hunger in the 1990s.

1992-1995 Vice-President (1992-3), President [1993-4), Past President [1994-5] Association of American Geographers

1993-2008 Executive Editor, *Environment* magazine

1993-1995 Member, Rediscovering Geography Committee, National Research Council

1994-2000 Member, Editorial Board, *Food Policy*

1994-1996 Co-chair, AAG Committee on Global Change Research

1994-1999 Member, Scientific Editorial Board, *Consequences*

1995-1999 Member (1995) Vice-Chair (1996-9) Board on Sustainable Development, National Research Council

1995-2003 Member, Science Editorial Board, *Conservation Ecology*

1995-2000 Member, Scientific Advisory Board *Human Environment*

1996-1999 Member, Advisory Board *Forces of Change* Exhibit, National Museum of Natural History

1998-2001 Review editor, Working Group II, Third Assessment Report of the Intergovernmental Panel on Climate Change

1996-1999 Member, Board of Advisory Editors, *Encyclopedia of Global Change*

1997-1999 Member, Maine Climate Change Task Force

- 1998-1999 Member, Planning Committee, Maine Global Climate Change Conference
- 1999-2003 Member, Advisory Committee, University of Maine, Margaret Chase Smith Center for Public Policy
- 1999- Member, Executive Committee, Maine Global Climate Change Inc.
- 2000-2005 Member, Advisory Board, Society for Amateur Scientists
- 2000- 2009 Trenton, ME representative, Acadia Disposal District
- 2000 Chair, Coordinating Committee for a Transition to Sustainability, National Academy of Science, National Research Council.
- 2000 Member, Organizing Committee, Friibergh Workshop on Sustainability Science
- 2001- Co-Convenor, Initiative for Science and Technology for Sustainability
- 2003-4 Review Editor, Millennium Ecosystem Assessment
- 2003-4 Member, National Academies, Committee on Facilitating Interdisciplinary Research
- 2003-6 Member, Scientific Advisory Board, *Ecology and Society*
- 2003-4 Co-Chair, Science and Economic Policy Resource Panel, Stakeholder Advisory Group, Maine Greenhouse Gas Action Plan
- 2004- Member, Great Transition Initiative
- 2004-7 Review Editor, Working Group II, Fourth Assessment Report of the Intergovernmental Panel on Climate Change
- 2005-11 Member, Editorial Board of the *Proceedings of the National Academy of Sciences*
- 2006- Katrina Member, Advisory Board, Social Science Research Council, Task Force on Katrina
- 2007- Member, Board of Global Institute on Sustainability, Arizona State University,
- 2007-9 Member, National Advisory Board. Long Term Ecological Research Systems
- 2008-11 Contributing Editor, *Environment Magazine*
- 2008- Member, Trenton, ME Solid Waste Committee
- 2009-10 Member, National Academies, Committee on America's Climate Choices, Panel on Adapting to the Impacts of Climate Change
- 2009- Chair, Advisory Board, Sustainability Solutions Initiative, University of Maine
- 2009-10 Member, Planning Committee, National Climate Adaptation Summit
- 2010-11 Member, Steering Committee, Community Resilience System Initiative
- 2012-13 Lead Author, Northeast, National Climate Assessment

## PUBLICATIONS

### BOOKS AND MONOGRAPHS:

1. Kates, Robert W., *Hazard and Choice Perception in Flood Plain Management*, Chicago: University of Chicago, Department of Geography Research Paper No. 78, 1962.
2. Burton, Ian, and Robert W. Kates, eds., *Readings in Resource Management and Conservation*, Chicago: University of Chicago Press, 1965.



3. Burton, Ian, Robert W. Kates, John R. Mather and Rodman E. Snead, "The Shores of Megalopolis: Coastal Occupance and Human Adjustment to Flood Hazard", *Climatology*, Vol. XVIII, No. 3, 1965, pp. 435-603.
4. Kates, Robert W., *Industrial Flood Losses: Damage Estimation in the Lehigh Valley*, Chicago: University of Chicago, Department of Geography Research Paper No. 98, 1965.
5. Kates, Robert W. and J. Wohlwill, eds., "Man's Response to the Physical Environment", *Journal of Social Issues*, Vol. XXII, No. 4, October 1966.
6. Burton, Ian, and Robert W. Kates, and Rodman E. Snead, *The Human Ecology of Coastal Flood Hazard in Megalopolis*, Chicago: University of Chicago, Department of Geography Research Paper No. 115, 1969.
7. Russell, Clifford S. and David G. Arey, and Robert W. Kates, *Drought and Water Supply: Implications of the Massachusetts Experience for Municipal Planning*, Baltimore, Maryland: The Johns Hopkins Press, 1970.
8. Haas, J. Eugene, Robert W. Kates, and Martyn J. Bowden, eds., *Reconstruction Following Disaster*, Cambridge, Mass.: The MIT Press, April 1977.
9. Kates, Robert W., *Risk Assessment of Environmental Hazard*, ICSU/SCOPE Report No. 8, Chichester: Wiley International, 1978.
10. Burton, Ian, Robert W. Kates, and Gilbert F. White, *The Environment as Hazard*, New York: Oxford University Press, 1978; Second edition, New York: The Guilford Press, 1993
11. Kates, Robert W., ed., *Managing Technological Hazard: Research Needs and Opportunities*, Boulder, Colorado: University of Colorado, 1978.
12. Leonard Berry and Robert W. Kates, eds., *Making the Most of the Least: Alternative Ways to Development*, New York: Holmes and Meier Publishers, Inc., 1980.
13. Kates, Robert W., Jesse H. Ausubel, and Mimi Berberian, eds., *Climate Impact Assessment: Studies of the Interaction of Climate and Society*, ICSU/SCOPE Report No. 27, Chichester: John Wiley, 1985.
14. Kates, Robert W., Christoph Hohenemser, and Jeanne X. Kasperson, eds., *Perilous Progress: Managing the Hazards of Technology*, Boulder, Colorado: Westview Press, 1985.
15. Kates, Robert W. and Ian Burton, eds., *Geography, Resources, and Environment*, Volume I, *Selected Writings of Gilbert F. White*, and Volume II, *Themes from the Work of Gilbert F. White*, Chicago: University of Chicago Press, 1986.
16. Kasperson, Roger E., Jeanne X. Kasperson, Christoph Hohenemser, and Robert W. Kates, *Corporate Management of Health and Safety Hazards: A Comparison of Current Practice*, Boulder, Colorado: Westview Press, 1988.
17. Newman, Lucile F., William Crossgrove, Robert W. Kates, Robley Mathews, and Sara Millman, eds. *Hunger in History: Food Shortage, Poverty, and Deprivation*. Oxford: Basil Blackwell, 1990.
18. Jeanne X. Kasperson and Robert W. Kates, eds. *Overcoming Hunger in the 1990s*, a special issue of *Food Policy*, Vol.15, No. 4, August, 1990, pp.273-368.
19. Turner, B.L. II, William C. Clark, Robert W. Kates, John F. Richards, Jessica T. Mathews and William B. Meyer, eds. *The Earth as Transformed by Human Action: Global and Regional Changes in the Biosphere over the Past 300 Years*, Cambridge: Cambridge University Press, 1990.

20. Turner, B. L. II, Goran Hyden, and Robert W. Kates, eds., *Population Growth and Agricultural Change in Africa*. Gainesville, FL: University Press of Florida, 1993.
21. Chen, Robert S. and Robert W. Kates, eds. *Climate Change and World Food Security*, a special issue of *Global Environmental Change*, Vol. 4 No.1, March, 1994, pp.1-88.  
With National Research Council, Board on Sustainable Development, *Our Common Journey: A Transition Toward Sustainability*. Washington: National Academy Press, 1999.  
Raskin, Paul, Tariq Banuri, Gilberto Gallopin, Pablo Gutman, Al Hammond, Robert Kates, and Rob Swart, *Great Transition: The Promise and Lure of the Times Ahead*. Boston. MA: Stockholm Environment Institute, 2002
24. With Association of American Geographers Global Change and Local Places Research Group.. *Global Change in Local Places: Estimating, Understanding, and Reducing Greenhouse Gases*. Cambridge UK, Cambridge University Press 2003
25. With National Academies, Committee on Facilitating Interdisciplinary Research, *Facilitating Interdisciplinary Research*, Washington: National Academy Press, 2005
26. With National Academies, Committee on America's Climate Choices, Panel on Adapting to the Impacts of Climate Change, *Adapting to the Impacts of Climate Change*, Washington: National Academies Press, 2010

#### **PAPERS, ARTICLES AND REPORTS:**

1. Kates, Robert W., "Seasonality", *Papers on Flood Problems*, University of Chicago, Department of Geography Research Paper No. 70 (Chicago: 1961), 114-131.
2. Kates, Robert W. and Gilbert F. White, "Flood Hazard Evaluation", *Papers on Flood Problems*, Chicago: University of Chicago, Department of Geography Research Paper No. 70, 1961, 135-147.
3. Kates, Robert W., "Perceptual Regions and Regional Perception in Flood Plain Management", *Papers and Proceedings of the Regional Science Association*, Vol. 11, 1963, 217-227.
4. Kates, Robert W., "The Synthetic Estimation of Flood Damages: A New Approach", W.E. Everett, ed., *Trends in Economics: Papers of the Fifth Conference of Pennsylvania Economists*, Bethlehem: Lehigh University Printery, 1963, 9-27.
5. Burton, Ian and Robert W. Kates, "The Flood Plain and the Sea Shore: A Comparative Analysis of Hazard-Zone Occupance", *Geographical Review*, Vol. LIV, No. 3, July, 1964, 366- 385.
6. Kates, Robert W., "Variation in Flood Hazard Perception: Implications for Rational Flood Plain Use", J.G. Jensen, ed., *Spatial Organization of Land Uses: The Willamette Valley*, Corvallis, Oregon: Oregon State University, 1964, 96-112.
7. Burton, Ian and Robert W. Kates, "The Perception of Natural Hazards in Resource Management", *Natural Resources Journal*, Vol. III, No. 3, 1964, 412-441; also in H. Kunreuther and A. Z. Rose eds. *The Economics of Natural Hazards*. Edward Elgar, Cheltenham, UK, 2004, Vol. 1, 53-82.
8. Kates, Robert W., "The Comprehensive Regional Resource Plan, 1974", *Research and Education for Regional and Area Development*, Ames, Iowa: Iowa State University Press, 1966, 244-254.
9. Kates, Robert W., "Stimulus and Symbol: The View from the Bridge", *Journal of Social Issues*, Vol. XXII, No. 4, October, 1966, 21-28.

10. Kates, Robert W. and W.R. Derrick Sewell, "The Evaluation of Weather Modification Research", *Human Dimensions of Weather Modification*, Chicago: University of Chicago, Department of Geography Research Paper No. 105, 1966, pp. 347-362.
11. Crutchfield, James A., Robert W. Kates, and W. R. Derrick Sewell, "Benefit-Cost Analysis and the National Oceanographic Program", *Natural Resources Journal*, Vol. VII, No. 3, July, 1967, 361-375.
12. Kates, Robert W., "The Pursuit of Beauty in the Environment", *Landscape*, Vol. XVI, No. 2, Winter, 1966-67, 21-25.
13. Kates, Robert W., "The Perception of Storm Hazard on the Shores of Megalopolis", D. Lowenthal, ed., *Environmental Perception and Behavior*, Chicago: University of Chicago, Department of Geography Research Paper No. 109, 1967, 60-74.
14. Kates, Robert W., "Links Between Physical and Human Geography: A Systems Approach", *Introductory Geography: Viewpoint and Themes*, Washington: Association of American Geographers Commission on College Geography Publication No. 5, 1967, 23-30.
15. Kates, Robert W., "Geography: The Case for the Specialized Generalist in a Science of Environment", M.E. Garnsey and J.R. Hibbs, eds., *Social Science and the Environment*, Boulder, Colorado: University of Colorado Press, 1967, pp. 53-72.
16. Sewell, W. R. Derrick and Robert W. Kates, "Contributions of Geographical Analysis to the Study of Human Response to Weather and Climate", *Human Dimensions of the Atmosphere*, Washington: National Science Foundation, 1968, 29-41.
17. Sewell, W. R. Derrick, Robert W. Kates, and W.J. Maunder, "Measuring the Economic Impact of Weather and Weather Modification: A Review of Techniques of Analysis", *Human Dimensions of the Atmosphere*, Washington: National Science Foundation, 1968, 103-112.
18. Sewell, W. R. Derrick, Robert W. Kates, and Lee Phillips, "Human Response to Weather and Climate: Geographical Contributions", *The Geographical Review*, Vol. LVIII, No. 2, 1968, 262-280.
19. Burton, Ian, Robert W. Kates, and Gilbert F. White, "The Human Ecology of Extreme Geophysical Events", Toronto: Natural Hazard Working Paper No. 1, 1968.
20. Julian, Paul R., Robert W. Kates, and W. R. D. Sewell, "Estimating Probabilities of Research Success in Atmospheric Sciences: Results of a Pilot Investigation", *Water Resources Research*, Vol. V, No. 1, February, 1969, 215-227.
21. Kates, Robert W., "Mirror or Monitor for Man?", *Antipode*, Vol. 1, No. 1, August, 1969, 47-53.
22. Kates, Robert W., "Comprehensive Environmental Planning", *Regional Planning: Challenge and Prospects*, New York: Frederick A. Praeger, Inc., 1969, 67-87.
23. Chorley, R.J. and Robert W. Kates, "Introduction", *Water, Earth and Man*, London: Methuen, 1969, 1-7.
24. Kates, Robert W., "Water as a Focus for Rural Research", *Canadian Journal of African Studies*, Vol. III, No. 1, Winter, 1969, 297-302.
25. Schmid, J., Robert W. Kates, and J.D. Heijnen, "An Estimate of Irrigation Potential in Tanzania", Dar es Salaam: University College, Bureau of Resource Assessment and Land Use Planning Research Report No. 3, 1969 (restricted) n.d.
26. McKay, J., Robert W. Kates, and D. Conyers, "Benefits from Rural Water Supply: The Impact of the Bulenya Hills Pipeline in North-East Nzega", Dar es Salaam: University College, Bureau of Resource Assessment and Land Use Planning Research Report No. 5, 1969 (restricted).

27. Berry, Leonard and Robert W. Kates, "A Study of Four Villages in Dodoma and Singida Regions", Dar es Salaam: University College, Bureau of Resource Assessment and Land Use Planning Research Paper No. 10, 1970.
28. Kates, Robert W., "Human Perception of the Environment", *International Social Sciences Journal*, Vol. 22, No. 4, 1970, pp. 648-660. Also, "Comment l'Homme Perçoit son Environnement" *Revue Internationale des Sciences Sociales*, Vol. 22, No. 4, 1970, 707-720.
29. Kates, Robert W., "Flood Hazards", contribution to *Student Resources: Geography in an Urban Age, Unit 5, Habitat and Resources*, New York: Macmillan Company, 1970, 51-60.
30. Kates, Robert W., J. McKay, and L. Berry, "Twelve New Settlements in Tanzania: A Comparative Study of Success", *Proceedings of The University of East Africa Social Science Conference*, 1968-69, Kampala: University of East Africa, 1970, 63-100.
31. Kates, Robert W. and J. Eugene Haas, "General Introduction, Conclusions and Recommendations", *The Great Alaska Earthquake of 1964: Human Ecology*, Washington: National Academy of Sciences-National Research Council Publication No. 1607, 1970, 1-4.
32. Kates, Robert W., "Human Adjustment to Earthquake Hazard", *The Great Alaska Earthquake of 1964: Human Ecology*, Washington: National Academy of Sciences-National Research Council Publication No. 1607, 1970, 7-31.
33. Kates, Robert W., "Introduction" to Public Administration Aspects, *The Great Alaska Earthquake of 1964: Human Ecology*, Washington: National Academy of Sciences-National Research Council Publication No. 1607, 1970, 149.
34. Kates, Robert W., "Natural Hazard in Human Ecological Perspective: Hypotheses and Models", *Economic Geography*, Vol. 47, No. 3, 1971, 438-451. also in H. Kunreuther and A. Z. Rose eds. *The Economics of Natural Hazards*. Edward Elgar, Cheltenham, UK, 2004 Vol. 2, 331-346
35. Kates, Robert W., "Flexibility, Coordination and Choice in Water Resource Planning: The Utility of Recent Planning Innovations for Water Development in Tanzania", *Proceedings of the Conference on Rural Water Supply in East Africa*, Dar es Salaam: University College, Bureau of Resource Assessment and Land Use Planning Research Paper No. 20, April, 1971.
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