

CURRICULUM VITA

JUDITH TEGGER KILDOW, Ph.D.

Consultant

Director, The National Ocean Economics Program

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Education:

Grinnell College, AB, major, Political Science, 1964

The Fletcher School, Tufts University, M.A. 1965; M.A. Law and Diplomacy, 1966;

Ph.D. International Relations and Science Policy, 1972

Principal Fields of Interest:

Economic Value of the Coast and Ocean

Coastal/ Ocean/ Environmental Management.

Marine Science Policy

Summary of Current Research Activities:

Director and Principal Investigator for **The National Ocean Economics Program**

(www.OceanEconomics.org) a program to track human uses of the coast, and to determine the contribution of the coast and oceans to the U.S. economy;

Relationship between economics, policy and ocean impacts from greenhouse gas emissions

Completing a textbook on principles and strategies for managing the coastal zone.

Professional Experience

Social Scientist, Monterey Bay Aquarium Research Institute, 01/07 - present

California State University at Monterey Bay, Adjunct Professor, 01/07 - present

California State University at Monterey Bay, James W. Rote Professor of Science and Environmental Policy. 2003-2006.

University of Vermont, Rubenstein School of Environmental and Natural Resources, Gund Institute for Ecological Economics,

Research Associate Professor, 2003. Adjunct Professor, 2004-05.

University of Southern California,

Wrigley Institute for Environmental Studies

Senior Research Scientist, July 1, 1999 – Jan. 2003.

Massachusetts Institute of Technology

Tenured Associate Professor of Ocean Policy, July, 1981-June 30, 1999.

(Early retirement)

Associate Professor of Ocean Policy, 1976-1981.

Head, Program in Marine Environmental Systems, 1994 - 1999.

Head, Oceans Systems Management Program, Dept. of Ocean Engineering, 1987-90.

Director of Curriculum, Technology and Policy Program, 1984-90.

Assistant Professor, Department of Ocean Engineering, 1973-76.
Research Assistant, Center for Policy Alternatives and Department of Ocean Engineering, 1972-73.
Institute for Naval Studies, Research Assistant, Battelle Institute, Cambridge, MA 1965-1966
Associates for International Research, Inc, Research Assistant, Cambridge, MA 1966-1967,
Tufts University, Government Department, Instructor, 1965-1968, Medford, Mass.
Columbia University, Institute for the Study of Science in Human Affairs, New York, NY. Research Assistant, 1969-1970
Palomar Junior College, Palomar, California, Instructor in Government, 1970.
University of Calif., San Diego
Scripps Institution of Oceanography, Assistant to the Director, Center for Marine Affairs, Sept 1970- 1972,
 Visiting Associate Researcher (1/2 time), 1976-1978.
 Department of Political Science, Visiting Associate Professor (1/2 time), 1976-1978
Harvard University, The Kennedy School, Senior Research Fellow, Cambridge, MA, 1985 1986
Tufts University, The Fletcher School, Medford, MA.
 Visiting Professor of Intl. Environmental Policy, and acting Head (and designer of), International Environmental Policy Program, 1990-1991.

Consulting Record :

Barss-Reitzel Associates, Cambridge, Mass., 1967- 1968
U.S. International University Center for Urban and Human Development, San Diego, 1970- 1971.
Center for International Affairs, Harvard University,. 1973-1974.
Center for Naval Analysis, Washington, DC, 1974- 1975.
Organization of Economic Cooperation and Development, Paris, 1976.
American Society of International Law, Washington, DC., 1978-1980.
US.Department of Energy, Sandia Labs, Albuquerque, NM., 1980.
Temple Barker Sloane, Inc. Lexington, Mass., 1986.
Wesleyan University, Middleton, Conn., 1988.
Tufts University, Medford, Massachusetts, 1990-1991.
American Association for the Advancement of Science, Project 2061, Washington D.C, 1988- 1994, 1999-2001.
The Pacific Institute for High Technology Research, Honolulu, Hawaii, 1997- 99.
FUJI Research Institute Corporation, Tokyo, Japan, June, 1999.
Australian Government, Department of Fisheries, 2006.
Canadian Government, Oceans Directorate, Fisheries and Oceans.

Outside Professional Service:

Federal Government:

U.S. Delegate to UNIOC meeting, Mexico City, 1974.

Department of Commerce, NOAA Task Force on Technical Goals and Objectives for Marine Pollution, 1977-1978.

Member, National Academy of Science, Ocean Policy Com, 1981-1982.

Member, National Academy of Sciences, Board on Ocean Science and Policy, 1983-1985.

Member, President's Commission: National Advisory Committee on Oceans and Atmosphere, (NACOA) 1984-1986.

Member, Marine Board of the National Academy of Eng., 1988-1991 .

Member, Marine Board, Com on Coastal Erosion Management, 1988-1990.

Member, Senior Advisory Com for National Defense Center for Environmental Excellence, 1994-1995.

Delegate to the White House Ocean Summit, Monterey, CA. 1998.

Member, Social Science Panel, Science Advisory Board, NOAA, Department of Commerce, 2001-present.

Member, University of California Sea Grant Advisory Committee. 2002.

Member US Committee on Census of Marine Life, 2007-

Participant Member, CORE/JOI Board, 2007-

Member, Monterey Bay National Marine Sanctuary Research Activities Panel. 2007-

State Government:

Mass. Governor's Task Force on Coastal Resources, Member, 1973-June 1976.

Chairperson, Energy Advisory Committee, 1974- 1976

Chairperson, Steering Committee, 1975- 1976

Mass. Outer Continental Shelf, 1975-1976

Coordinating Committee (Mass. Energy Office).

Member, Technical Advisory Com to Mass. Office of, Environmental Affairs, 1990.

Member, Technical Advisory Com Mass. Bays Program, 1990-1991.

Member, Governor's Task Force on Water Quality, 1994-1995.

Member, Ocean Resources Roundtable, Massachusetts Coastal Zone Office, 1997 –1999.

Member, California and the World Oceans Conference Coordinating Committee. 2002.

Member California Climate Change Adaptation Task Force. 2007-present.

Directorships, etc.

Executive Board, Law of the Sea Institute, Universities of Rhode Island and Hawaii, 1975-1981.

Board of Advisors, College of Marine Studies, 1975- 1976, University of Delaware.

Editorial Board, Marine Policy, 1978-1999.

Editorial Board, Oceanus, 1979-1982.

Advisory Board, Center for Ocean Studies, 1986-Present, University of Virginia.

Board of Directors, Massachusetts Audubon Society, 1983-1999.

Chair, Maritime Committee, Marine Technology Society, 1989-1992.

Chancellor's Marine Science and Policy Advisory Group, 1991-1992, University of Mass., Boston.

Advisory Board, US. Committee for International Institute, for Applied Systems Analysis, 1991-1999.
Member, Annual Meeting Planning Committee, AAAS, 1991-2000..
Associate Editor, Oceanic Engineering International, 1996-2000.
Strategic Advisory Group for Ocean Sequestration of CO₂, OECD, International Energy Agency, Greenhouse Gases R&D Program, 1998.

Awards:

Celia M. Howard Award, Illinois Federation of Business and Professional Women, 1964-1967
Fletcher Fellow, 1965-1966.
Lilly Teaching Fellow, 1974-1975.
Chancellor's Visiting Scholar, U C, Santa Barbara, Marine Sciences and Ocean Policy Symposium, 1979.
Senior Research Fellow, Harvard University, 1985-1986.
Marion and Jasper Whiting Fellowship, 1985-1986.
Martin Abkowitz Travel Award, 1998.
MIT/Ocean Engineering Department, established Judith Kildow Fund for Women

Current Organizational Membership :

AAAS, 1970-Present.
The Coastal Society
American Geophysical Union

Recent Presentations

The Importance of Economic Information for Coastal Ocean Policies. Ocean Forum, Joint meeting by White House Council on Environmental Quality and the Center for Marine Conservation, Washington DC, March 20, 2000.
“The Oceans for the New Millennium: Developing and Implementing Ocean Policy” The House Oceans Caucus Conference, Washington DC, July 18, 2000.
Coastal States Organization Annual Meeting, San Diego, CA. October, 2001, speaker.
National Sea Grant Directors Meeting, November 2001, speaker.
ASCE Solutions to Coastal Disasters Conference, San Diego, CA. Luncheon Speaker, Feb. 25, 2002
National Ocean Policy Commission, Los Angeles, April 19, 2002 Testimony: “Economics, the missing ingredient in Ocean Policymaking.”
Orange County Water Summit, Irvine California, speaker, April 30, 2002
All Islands Coral Reef Economic Valuation Workshop, Honolulu, Hawaii, August 12 - 14, 2002.
California and the World Oceans Conference, Santa Barbara, CA. Oct 27-30, 2002. “The National ocean Economics Project: Valuing the Ocean Economy”
Beach Valuation Workshop Co-Chair, sponsored by the California Water Resources Control Board, February 24, 2003, Los Angeles, CA.
“Examining the Evidence that Links a Healthy Coastal Environment with a Healthy Economy: Data from The National Ocean Economics Project.” AAAS Annual Meeting, Seattle, WA. February, 2004.

“Economic and Demographic Dimensions of Coastal Zone Land Use Changes.” The Coastal Society, Newport, Rhode Island, May, 2004.

“The California Ocean Economy,” UCLA Symposium on Marine Protected Areas, June, 2004.

“The California Ocean Economy,” Keynote Speech. State of California Ocean Economics Summit. July 2005

“The California Ocean Economy,” Lecturer, Lecture Series of the Monterey Bay Aquarium Research Institute, July 27, 2005

“Reading between the Lines of the California Ocean Economy Report.” Speaker, California Central Coast Coastal and Ocean Round Table., September, 2005.

“Revisiting California’s Ocean and Coastal Economies” Headwaters to the Ocean Conference, Huntington Beach, CA. October 2005

“Overview of California’s Ocean Economy: Linking the Economy and the Environment,” EBM Conference, Monterey CA, December 2005.

“Splicing Economics into Ecosystem-based Management: A Glimpse at the South Atlantic Coastal States Through the NOEP Lens.” Coastal Conference on Ecosystem-Based Approaches to Management in the Southeast Region, Wilmington, NC . March 2006.

“The Changing Ocean and Coastal Economies of the Gulf of Mexico,” with Charles S. Colgan and Linwood Pendleton., Gulf of Mexico Summit, Corpus Christi, TX. March 29, 2006.

“Tracking Florida’s Coastal and Ocean Economies: A Tool for Evidenced Based Solutions,” The Coastal Society Conference, St Pete Beach, Florida, May 2006.

“Economic Tools for Environmental Valuation,” Katoomba Conference, Portland, Oregon. June 2006.

“Lessons from California’s Coast, New South Wales Coastal Conference, NSW Australia, November, 2006.

“Linking Property Values with Estuarine Restoration,” Restore America’s Estuaries Conference, New Orleans, LA, December, 2006.

“Linking Ocean Acidification Science to Policies.” CO2 Workshop, MBARI/Center for Ocean Solutions, Stanford University, March 20, 2007.

“US Economy at Risk: Living on the Edge,” presentation at the Disasters Roundtable, the National Academies, March 28-29, 2007.

“Valuing the Ocean: Choice or Necessity,” invited Lecturer, Speaker series, Coastal Policy Challenges for the 21st Century, University of California at Santa Cruz, April, 11, 2007.

“The Economy of US Coastal Communities,” National Sanctuary Foundation Capital Hill Ocean Week panel, , Washington DC, June 6, 2007.

“Coastal Management in America,” invited talk for delegation of Vietnamese officials, MBARI, July 20, 2007.

“Designing and Using Socio-Economic Indicators for Coastal Management,” Coastal Zone ’07, (organizer, moderator, speaker), Portland Oregon, July 25, 2007.

“The Social Tipping Point: Can Policy Catch Up with the Science of Global Climate Change?” Keynote address: GLOBEC Conference, Rome, Italy, July 11, 2008.

“ Socio-Economic Impacts of Climate Change,” Global Climate Change: What Does it Mean Locally? Chautauqua Hall, Pacific Grove, September 13, sponsored by Pacific Grove Natural History Museum, 2008.

‘The Oceans, the Economy and Climate Change,’ Moss Landing Marine Lab Student Speakers Series, October, 2008.

“The Oceans, Climate Change and the Economy,” National Association of Business Economists, San Francisco, CA January 7, 2009

“Economic Impacts of Ocean-Related Climate Change,” Graduate Student Speaker Series, California State University Monterey May, February 9, 2009.

“Population, Consumption and Climate Change,” League of Women Voters of Monterey Peninsula, February 11, 2009.

Publications of Judith T. Kildow

Books

Kildow, Judith T., INTELSAT: Policy Makers Dilemma, Lexington Books, D. C. Heath. 1973.

Kildow, Judith T., (ed.) Deepsea Mining, MIT Press, 1980

Kildow, Judith T., Coastal Zones: Environmental Principles and Management Strategies, (publication expected, 2009, MIT PRESS.)

Chapters in Books

Kildow, Judith T. "The Nature of Present Restrictions on Oceanic Research," in Freedom of Oceanic Research, Warren Wooster (ed.), Crane Russak and Co., 1973.

Kildow, Judith T., and Vinod Dar, "An Unusual Resource Management Problem," in Kildow, Deepsea Mining, MIT Press, 1980.

Kildow, Judith T., “Political and Economic Dimensions of Land-Based Sources of Marine Pollution.” in Nationalism and the Use of Common Spaces, Jonathan Charney (ed.), Allanheld Osmun and Co., Washington, D. C., 1982.

Kildow, Judith T., "Arctic Policy, Introduction," in Arctic Technology and Policy, Ira Dyer and Chryssostomos Chryssostomidis (eds.), 1984.

Kildow, Judith T., "The US. Approach to Arctic Policy," in Arctic Engineering for the 21st Century, Marine Technology Society, 1984.

Kildow, Judith T. et al, "Sludge Management and Public Policy,” Disposal of Industrial and Domestic Wastes, Land and Sea Alternatives, E. Goldberg, (ed). National Academy of Sciences, 1984.

Weeks, Ann B. and Judith T. Kildow, "Monitoring and Recovery of Subseabed Emplaced High-Level Radioactive Wastes," in Volume 5: Deep Sea Waste Disposal, Dana Kester, et al., (eds.), Wiley Press, 1985.

Weeks, Ann B. and Judith T. Kildow, “Monitoring and Recovery of Subseabed Emplaced High-Level Radioactive Wastes,” in Oceanic Processes in Marine Pollution, Vol. 3: Marine Waste Management: Science and Policy, ed. by Michael A. Champ and P. Kilho Park, Robert E. Krieger Publishing Company, Malabar, Fla, 1989.

Moomaw, William, and Judith Kildow, “International Environmental Decisionmaking: Challenging the Old Order.” In Environmental Decisionmaking, Richard Chechile, ed.

Van Nostrand Reinhold, 1991.

Kildow, Judith T. "The Impact of International Environmental Treaties and Agreements on Corporate Strategies." in *Transnational Environmental Law and Its Impact on Corporate Behavior*. Urbani, Rubin, and Katzman, eds. Transnational Juris Publications, Inc. 1994.

Kildow, Judith T. "A Framework for Considering the Socio-Political Dimensions in Risk Assessment," *Assessing the Risks of Nuclear and Chemical Contamination in the former Soviet Union* edited by Elizabeth J. Kirk, NATO ASI Series, Kluwer Academic Publishers, 1996.

Kildow, Judith T., Charles S. Colgan, Linwood Pendleton. "The Coastal and Ocean Economies of the US Side of the Gulf of Mexico," forthcoming in *The Changing Coastal and Ocean Economies of the Gulf of Mexico*, University of Texas press 2009.

Kildow, Judith T. "The Influence of Coastal Preservation and Restoration on Coastal Real Estate Values." In *The Economic and Market Value of America's Coasts and Estuaries, What's at Stake*, Linwood Pendleton, ed. 2009.

Journal Publications

Kildow, Judith T., "The Law of the Sea: Alliances and Divisive Issues in International Ocean Negotiations," *San Diego Law Review*, Spring 1974.

Kildow, Judith T., "The Arctic, Time for Progress", *Marine Policy*, July 1983.

Kildow, Judith T., "The Seventh Continent, Antarctica in a Resource Age," *Natural Resources Forum*, November 1986, (Vol. 10, No. 4).

Kildow, Judith T. and J. Patrick Adcock, "Trade and Environment," *The Fletcher Forum*. Spring, 1992.

Kildow, Judith T., "The Earth Summit: We Need More than a Message," in *Environmental Science and Technology*, Vol. 26, #6, 1992.

Kildow, Judith T., "Keeping the Oceans Oil-Free," in *Technology Review*. April 1993.

Kildow, Judith T., "Opportunities for Ocean Engineering: Some Observations Drawn from Recent International Agreements." *Oceanic Engineering International*, Vol. 1 No. 1. pp. 1-9, 1997.

Kildow, Judith T., "Testing the Waters: An Analytical Framework for Testing the Political Feasibility of Scenario-Based Proposals for Disposing of CO₂ in the Oceans." *Energy Conversion and Management*, Elsevier Press. 1997.

Kildow, Judith T., "The Roots and Context of the Coastal Zone Movement," 25th Anniversary volume, *Coastal Management*, summer, 1997.

Kildow, Judith T., Hauke Kite-Powell, et al. "Estimating the Economic Value of the Ocean." *Sea Technology*. January, 2000, pp. 65-67.

Kildow, Judith T. "Valuing the Coast." *Coastlines*, June 2002.

Pendleton, Linwood and Judith Kildow, "The Non-Market Value of Beach Recreation in California." *Shore and Beach*, Volume 74, No. 2, Spring 2006

Papers Presented at Refereed Conferences

Kildow, Judith T., "The French Space Program: Political and Social Implications." AIAA Paper No. 68-898, presented at the Impact of Aerospace Science and Technology on Law and Government Conference, Washington, D. C. August 1968.

Kildow, Judith T., "The Seas: Heritage for the Few, or Hope for the Many." presented at

the Law of the Sea Institute, Kingston, Rhode Island, June 27, 1972, published in Proceedings, 1973.

Kildow, Judith T. and Vinod Dar, "U.S. Policies and the Ocean Mining Industry." Chapter 19, Law of the Sea: Conference Outcomes and Problems of Implementation, Miles and Gamble (eds.). Balinger Publishing Co., Cambridge, Mass. 1977.

Weeks, Ann and Judith T. Kildow, "The Back End of the Back End: Monitoring and Recovery of High Level Nuclear Wastes in Subseabed Emplacement." Third Annual International Ocean Disposal Symposium, May 2-5, 1983.

Kildow, Judith T., "Technology Transfer, Deepsea Mining's Great Equalizer", paper presented at AAAS Annual Meeting, Detroit, May 1983.

Kildow, Judith T., "Technology Transfer and the Status of the Maritime Industries," Marine Technology Society, Pacom meeting, Hawaii, March 1986.

Kildow, Judith T. "Whatever Happened to the Blue Revolution?", paper presented at Ocean Policy Symposium, Woods Hole Oceanographic Institution, April 6, 1987.

Adcock, J. Patrick and Judith T. Kildow, "Environmentally Sustainable Growth and the World Trading System: Greenhouse Gas Control Strategies and a North American Free Trade Area," Paper presented at 66th Annual Conference, The Western Economic Assoc. Internat'l, Seattle, July '91.

Kildow, Judith T., "Factoring in Economic, Social, and Political Risks in Risk Assessments." paper presented at NATO Workshop, AAAS Annual Meeting, Atlanta, Ga. 1995.

Kildow, Judith T., "An Analytical Approach for Testing the Political Feasibility of Scenario-Based Proposals for Disposing of CO₂ in the Oceans." Paper presented at Workshop on Ocean Storage of CO₂: International Links and Concerns, South, England. July 1996. Appendix H in Proceedings, Workshop 3 Ocean Storage of CO₂: International Links and Concerns. IEA Greenhouse Gas R and D Programme. December 1996.

Kildow, Judith T., "Feasibility of Scenario-Based Proposals for Disposing of CO₂ in the Oceans." Paper presented at ICCDR (International Conference on Capture and Disposal Research for CO₂), MIT, Cambridge. Sept., 1996

Kildow, Judith T. "The Growing Public Presence in Marine Science Decisions." Paper presented at 150th anniversary Annual Meeting of the AAAS, Philadelphia, February 15, 1998.

Kildow, Judith and Stephanie Harrington, "Policy Protocols For Building A Partnership Between The Public And Marine Scientists: The Ocean Sequestration Of Co 2 " Paper presented at GHGT 4 Conference, Interlaken, Switzerland, August, 1998. in Journal of Energy Conversion and Management, Elsevier Press, 1999.

Kildow, Judith, Brian Baird, Charles Colgan, Hauke Kite-Powell, Rodney Weiher , "Improving Economic Information For Ocean and Coastal Resources." The Coastal Society Meeting, July, 2000, Portland Oregon.

Kildow, Judith. "Economics, the Missing Link to Rational Decision Making." The Coastal Society Bi-annual Meeting, Galveston, Texas. May, 2002.

Kildow, Judith. "Update of the California Ocean and Coastal Economies, California and the World Ocean '06 Conference, Long Beach, CA, September, 2006.

Kildow, Judith. "Valuing The Coastal Tourism Sector: Irrational Exuberance?" California and the World Oceans '06 Conference. Long Beach, CA, September, 2006.

Published Reports

- Kildow, Judith T. and John Huguenin, "Social, Political, Regulatory and Marketing Problems of Marine Waste Water in the Production of Food and Fiber." Conference. Oklahoma City, March 5-7, 1974; published as EPA Report. NTIS. Washington D. C.
- Kildow, Judith T., "Background Paper on Marine Policy Research." Ocean Policy Workshop Report on Marine Policy Research. NSF/Center for Naval Analysis Workshop. February 1975.
- Kildow, Judith T., John Huguenin, et al. Problems and Potentials of Recycling Wastes for Aquaculture. MIT Sea Grant, 1975.
- Kildow, Judith T., Deborah Cramer and Lina Newhouse. Building Public/Private Cooperation in the Coastal Zone. MIT Sea Grant, 1976.
- Kildow, Judith T. (ed), International Transfer of Marine Technology. A Three Volume Study. MIT Sea Grant, Report No. MITSG 77-20. 1977.
- Dar, Vinod K., Stephen Gibbs, Judith Kildow, Marcia Levis and Lina Newhouse, "Proposal for a United States Program In International Marine Cooperation." in International Transfer of Marine Technology. , MIT Sea Grant, Judith T. Kildow, (ed.) 1977.
- Kildow, Judith T., Michael Bever, et al. Assessment of Economic and Regulatory Conditions Affecting Ocean Minerals Resource Development. Dept. of Commerce, NTIS. 1978
- Kildow, Judith T., Alfred G. Kildow et al, "A Study of the Fort Point Channel and the Northern Avenue Bridge," Boston, August, 1981.
- Kildow, Judith T., R. deNeufville, G. Hack, R. Tabors et al, Boston Harbor Management Study, MIT Sea Grant, 1982
- Kildow, Judith T., "Final Report of The Socio-Political Aspects of a Subseabed Disposal Program for High Level Nuclear Waste." Sandia Labs, US. DOE, February 1982.
- Kildow, Judith T., J. P. Clark, et al "Evaluating the Role of Industrial Pretreatment in POTW Sludge Management," Office of Policy Analysis, EPA, Wash. DC., Sept. 1984.
- Stolzenbach, Keith, Judith T. Kildow, and Elizabeth Harding, (eds.) Management of Public Wastes, Proceedings of a Sea Grant Conference, 1986.
- Lohse, Michael and Judith T. Kildow (eds.), Stellwagen Bank National Marine Sanctuary Monitoring Plan. Fall, 1995. MIT Sea Grant.
- Kildow, Judith, Charles Colgan, Hauke Kite-Powell, Shivendu Shivendu, and Bhavin Shaw, "Valuing Long Island Sound. The Long Island Sound National Estuary Program, EPA. October 2002.
- Kildow, Judith et al. The California Ocean Economy,. National Ocean Economics Program for the California Department of Resources. July 2005.
- Kildow, Judith, et al. California State Summary of the Coastal and Ocean Economy. National Ocean Economics Program for California Resources Agency. July 2005
- Kildow, Judith et al. Florida's Ocean and Coastal Economies Report, Phase I. National Ocean Economics Program for the Florida Department of Environmental Protection. June 2006.

Kildow, Judith et al. Facts and Figures: Florida's Ocean and Coastal Economies, Phase I. National Ocean Economics Program for the Florida Department of Environmental Protection. June 2006.

Florida's Ocean And Coastal Economy, Phase II, June 2008

Kildow, Judith et al. California's Ocean Investments, Report to the California Ocean Protection Council and the State Coastal Conservancy, September 2008.

Kildow, Judith, Charles Cogan and Jason Scorse, State of the US Ocean and Coastal Economy, National Ocean Economics Program, June 2009.