

## **ELLEN K. PIKITCH**

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PROFESSOR  
Marine Biology and Fisheries  
Rosenstiel School of Marine and  
Atmospheric Sciences  
University of Miami  
Key Biscayne, FL

### **Education**

Ph.D. Indiana University, 1983, Zoology  
M.S. Indiana University, 1982, Zoology  
M.A. The City College of C.U.N.Y., 1977, Mathematics  
B.S. The City College of C.U.N.Y., 1977, Summa cum laude, Mathematics

### **Positions Held**

#### *Pew Institute for Ocean Science*

Founder and Executive Director, 2003-present

#### *University of Miami, Rosenstiel School of Marine and Atmospheric Sciences*

Professor, Marine Biology and Fisheries, 2003-present

#### *Stony Brook University, Marine Science Research Center,*

Professor (Adjunct) 2007-present

#### *Wildlife Conservation Society, [Founded in 1895 as the New York Zoological Society] New York, NY*

Director of Ocean Strategy, 2002-2003

Director of Marine Conservation Programs, 1998-2002

Director of Fisheries Programs, 1996-1998

Senior Research Scientist, 1996-2003

#### *Columbia University, Center for Environmental Research and Conservation, New York, NY*

Research Associate (Adjunct), 1999-present

#### *University of Washington, School of Fisheries, Seattle, WA*

Director, Fisheries Research Institute, 1992-1996

Associate Director of Research, School of Fisheries, 1992-1996

Associate Professor, University of Washington, 1990-1996

Assistant Professor, University of Washington, 1987-1990

#### *Oregon State University, Department of Fisheries and Wildlife, Newport, OR*

Assistant Professor, 1983-1987

#### *Indiana University, Department of Zoology, Bloomington, IN*

Eigenmann Fellow, 1982-1983

Associate Instructor, 1978-1982

#### *Michigan Department of Natural Resources, Ann Arbor, MI*

Graduate Assistant, 1981-1982

#### *Lawler, Matusky and Skelly Engineers, Pearl River, NY*

Environmental Consultant, 1977-1978

### **Professional Leadership And Recognition (Examples)**

*EUR-OCEANS (European network of excellence for Ocean Ecosystems Analysis) Scientific Council (2007-present)*

*Pew Fellows Advisory Committee (Chair; non-voting) 2003- present*

*ADVANCE committee – National Science Foundation/Columbia University 2005-present*

*Sea Change Investment Fund, Board of Directors, Conservation Committee, 2005-present*

*Conservation in Practice: Editorial Board, (2005-present)*

*Animal Conservation. Editorial Board, 2003-2007*

*Millennium Project Task Force on Environmental Sustainability, commissioned by the United Nations Secretary-General Kofi Annan, member, 2003-2005.*

*Marine Stewardship Council, Quality and Consistency Panel, 2006, South Georgia Patagonian Toothfish Longline Fishery Certification Objections Review Panel, 2003-2004*

*National Academy of Sciences, National Research Council. Committee on Cooperative Research and the National Marine Fisheries Service, 2002-2004.*

*World Summit on Sustainable Development (WSSD), Johannesburg, South Africa. Head of Delegation, Wildlife Conservation Society, 2002; member, Informal Coordinating Group on Oceans, Coasts and Islands at the WSSD, 2002.*

*IUCN Sturgeon Specialist Group, Chair, Stock Assessment and Recovery Sub-Committee, 2002-present*

*Caviar Emptor, Lead Scientist and Co-founder, 2000-2007*

*Pew Fellow in Marine Conservation, 2000 – 2003*

*President Clinton's Panel on Ocean Exploration, 2000-2001*

*NOAA Science Advisory Board, Member, 2000-2001*

*International Commission for the Conservation of Atlantic Tunas. U.S. Advisory Committee Member – 2000-2002; U.S. delegation member: Working Group on Bycatch (1999), Swordfish Working Group (1999), Standing Committee on Research and Statistics (1999)*

*New England Fishery Management Council, Overfishing definition review panel, member 1997-1998; Scientific and Statistical Committee, member 1992; Chairman, 1998-2000.*

*International Pelagic Shark Symposium, Asilomar, CA, co-convenor February 2000*

*Ocean Wildlife Campaign (A Coalition of Wildlife Conservation Society, Natural Resources Defense Council, The Ocean Conservancy, National Coalition for Marine Conservation, National Audubon Society, World Wildlife Fund) to conserve ocean wildlife. Steering committee member and lead stock assessment scientist. 1996-2002.*

*Shark Evaluation Workshop (convened by National Marine Fisheries Service), Participant, 1998*

*National Academy of Sciences, National Research Council. Committee on Ecosystem Management and Sustainable Marine Fisheries 1995-1998.*

*National Academy of Sciences, National Research Council. Committee on Porpoise Mortality from Tuna Fishing. 1989-1992.*

*New England Aquarium, Aquatic Forum Series, Establishing an agenda for responsible fishing, Working Group Chair. 1996. Boston, MA.*

*National Fisheries Conservation Center, Member, Advisory Board, 1994-1996.*

*Pacific Fishery Management Council, Scientific and Statistical Committee, 1989-1994; Chair, Groundfish Subcommittee, 1993-1994.*

*North American Journal of Fisheries Management, Associate Editor, 1989-1992.*

*Resource Modeling Association, Board of Directors, 1986-1989*

### **Honors and Awards**

*Who's Who in America 2007, 2008*

*Who's Who in the World 2008*

*Who's Who in Science and Engineering 2008*

*Wilmer Shields Rich Award for Excellence in Communications (2004); Gold, Public Information Campaign, Council on Foundations, for Caviar Emptor*

*Silver Anvil Award 2004, Public Relations Society of America for Caviar Emptor*

*LOGO 2004 (in recognition of Pew Institute for Ocean Science logo design)*

*Global Corporate Identity 2, Certificate of Excellence (for Pew Institute for Ocean Science logo design)*

*Pew Fellows Program: Pew Fellow in Marine Conservation 2000-2003;*

*Pew Fellows Program: Aqua Oscar: Media Maven of the Year 2002.*

*Distinguished Service Award, College of Ocean and Fishery Sciences, University of Washington, 1992*

*Emerging Scholar Award, Phi Kappa Phi, Oregon State University Chapter, 1987*

*Outstanding Young Woman of America, 1986*

*Breckenridge Fellowship, Indiana University, 1982*

*Eigenmann Fellowship, Indiana University, 1982-1983*

*Kenyon Prize for Excellence in Pure and Applied Mathematics, The City College of C.U.N.Y., 1977*

*Nehemiah Gittleson Award, The City College of C.U.N.Y, 1977, Awarded to that member of the graduating class who "best exemplifies the spirit of the search for truth."*

*Special Recognition of Publications: Pikitch, E.K. 1987. Use of a mixed-species yield-per-recruit model to explore the consequences of various management strategies for the Oregon flatfish fishery. Can. J. Fish. Aquat. Sci. 44 (Suppl. 2):349-359. This paper was recognized as an outstanding achievement of the National Sea Grant Program.*

### **Teaching and Public Speaking**

***Courses Taught.*** I have taught courses at both undergraduate and graduate levels on topics that include General Biology, Ecology, Biostatistics, Population Dynamics, Fisheries Science and Fisheries Management at Indiana University (1978-1983), Oregon State University (1984-1987) the University of Washington (1987-1996), and Columbia University (co-taught with Beth Babcock, Winter 2002, 2003).

***Graduate Student Advising.*** I have served on the thesis or dissertation committees of over 30 graduate students, pursuing advanced study on a wide range of topics related to ocean and fisheries science and management. I have been major professor and chair of the committees for about half these students. Virtually all of the students I have supervised are now employed in their field of interest, and hold positions in academia, governmental and non-governmental organizations throughout the U.S. and in several other countries.

***Conferences and Symposia.*** Since founding of the Pew Institute for Ocean Science I annually convene a meeting of more than 100 participants as part of my oversight responsibilities for the Pew Fellows Program in Marine Conservation. I have co-convened two major international symposia (Fisheries Management: Global Trends, Seattle, WA 1994; International Pelagic Shark Symposium, Asilomar, CA, 2000), and two conferences of regional or national scope (Western Groundfish Symposium, WA, 1990, Resource Modeling Conference, 1985). I have served on numerous conference organizing committees and give frequent presentations at venues of regional, national and international scope.

***Public Outreach Activities.*** I have assumed a leadership role in broadening the reach of marine scientific information by integrating and transferring knowledge about problems facing fish to scientists, policy makers, and the general public. For example, I co-founded and served as lead scientist of the Caviar Emptor initiative ([www.caviaremtor.org](http://www.caviaremtor.org)) an effort to promote recovery of sturgeon and increase consumer awareness of the problems facing sturgeon and other fish. This program led to the listing of the beluga sturgeon in 2004 under the US Endangered Species Act and a ban on U.S. imports of beluga sturgeon products in 2005. Following these events, the worldwide trade in sturgeon caviar of all species was halted in January 2006 by the Convention on International Trade in Endangered Species, and Romania declared a national 10-year moratorium on sturgeon fishing. The Caviar Emptor program has been recognized with the 2004 Silver Anvil Award by the Public Relations Society of America, and with the Wilmer Shields Rich Award by the Council on Foundations for excellence in public communication.

During the past several years I have appeared on TV programs including CNN, CNBC, NBC News, Discovery News, EXTRA, and Wild about Animals, given numerous radio interviews and have been quoted in thousands of newspaper articles. My outreach activities have included Op-Ed's and articles in newspapers, magazines, scientific journals, books, and technical reports (see examples in section on Publications below).

### **Publications**

Camhi, M.D, E.K. Pikitch and E.A. Babcock, editors. 2008. *Sharks of the Open Ocean: Biology, Fisheries and Conservation*. Blackwell Publishing, Oxford, UK.

Camhi, M. D, Lauck, E., E.K. Pikitch and E.A. Babcock. 2008. A global overview of commercial fisheries for open ocean sharks. Pages 166-192 in M. D. Camhi, E.K. Pikitch and E.A. Babcock, editors. *Sharks of the Open Ocean: Biology, Fisheries and Conservation*. Blackwell Publishing, Oxford, UK.

- McAllister, M. K., E. K. Pikitch and E.A. Babcock. 2008. Why are Bayesian methods useful for the stock assessment of sharks? Pages 351-368 in M. D. Camhi, E.K. Pikitch and E.A. Babcock, editors. *Sharks of the Open Ocean: Biology, Fisheries and Conservation*. Blackwell Publishing, Oxford, UK..
- Pikitch, E.K., M. D. Camhi and E.A. Babcock. 2008. Introduction to *Sharks of the Open Ocean*. Pages 3-13 in M. D. Camhi, E.K. Pikitch and E.A. Babcock, editors. *Sharks of the Open Ocean: Biology, Fisheries and Conservation*. Blackwell Publishing, Oxford, UK..
- Pikitch, E.K. and C. Santora. 2008. Summary for Session Q4-4: Decision Frameworks and Reconciling Fisheries with Conservation. Pages 587-590 in *Proceedings of the Fourth World Fisheries Congress: Reconciling Fisheries and Conservation*. American Fisheries Society Symposium 49. Bethesda, Maryland.
- Rosenberg, A.A., D. Agnew, K. Garrison, C.B. Morgensen, E.K. Pikitch, J. Powers, M. Powell, R. O'Boyle, S. Roady, J. Swasey. 2008. Report of the Lenfest Working Group on Best Practices in Fishery Management in the United States. Unpublished report. 39 p.
- Pikitch, E.K., Santora, C. and E. A. Babcock. (2008) New frameworks for reconciling conservation with fisheries: incorporating uncertainty and ecosystem processes into fisheries management. Pages 1177-1187 in *Proceedings of the Fourth World Fisheries Congress: Reconciling Fisheries and Conservation*. American Fisheries Society Symposium 49. Bethesda, Maryland.
- Skomal, G., E.A. Babcock and E. K. Pikitch. 2008. Blue and mako shark catch rates in U.S. Atlantic recreational fisheries as potential indices of abundance. Pages 205-212 in M. D. Camhi, E.K. Pikitch and E.A. Babcock, editors. *Sharks of the Open Ocean: Biology, Fisheries and Conservation*. Blackwell Publishing, Oxford, UK.
- Babcock, E.A., M.K. McAllister, and E.K. Pikitch. 2007. Comparison of harvest control policies for rebuilding overfished populations within a fixed rebuilding time frame. *North American Journal of Fisheries Management*. 27:1326-1342
- Chapman, D.D., E.K. Pikitch, E.A. Babcock and M.S. Shivji. 2007. Deep-diving and diel changes in vertical habitat use by Caribbean reef sharks, *Carcharhinus perezi*. *Marine Ecology Progress Series* 344: 271-275.
- Doukakis, P., E K. Pikitch and D.L. Erickson. Caviar Dreaming? Evaluating the Success of Sturgeon Conservation Efforts and the Bold Steps Needed to Avert Extinction. 21<sup>st</sup> Annual Society for Conservation Biology, Port Elizabeth, South Africa, July 1-5, 2007. (Abstract).
- Erickson D., G. Bryja, S. Lindley, M. Moser, M. Belchik, A. Kahnle, M. Millard, J. Weber, J. Hightower, P. Doukakis and E. Pikitch. Spatial habitat use in anadromous North American sturgeons and its importance for conservation. 137<sup>th</sup> Annual American Fisheries Society Meeting, San Francisco, California, September 2-6, 2007. (Abstract).
- Erickson, D., K. Kappenman, M. Webb, N. Ryabinin, A. Shmigirilov, B. Belyaev, G. Novomodny, A. Mednikova, E. Pikitch and P. Doukakis. 2007. Sturgeon conservation in the Russian Far East and China. *Endangered Species Bulletin* XXXII: 28-32.
- Magnussen, J. E, Pikitch, E.K, Clarke S.C., Nicholson C., Hoelzel, A. R. and M. S. Shivji. 2007. Genetic tracking of basking shark products in international trade. *Animal Conservation* 10 (2):199-207.
- Pikitch, E.K. 2007. What new international restrictions mean for Japan. Pages 40-42 in *Newsweek Japan*, 27 June 2007 edition.
- Steele, J. (Chair), B. de Young, C. Lee, and E. Pikitch. 2007. EUROCEANS Network Program Review. Report of the Scientific Council to the EUROCEANS Steering Committee. 3 pps.
- Boersma, D., Ogden, J., Branch, G., Bustamante, R., Campagna, C., Harris, G. and E.K. Pikitch. 2006. LÍMITES EN EL OCÉANO: Planificación de su uso en el marco de los grandes ecosistemas marinos, *Caso de estudio del Mar Patagónico*. Conservation International and Fundación Ecocentro. 14 pp.

- Clarke, S., McAllister, M. K., Milner-Gulland, E.J., Kirkwood, G. P., Michielsens, C.G.J., Agnew, D. J. Pikitch, E.K., Nakano, H. and M. S. Shivji. 2006. Global estimates of shark catches using trade records from commercial markets. *Ecology Letters* 9:1115–1126
- Chapman, D. D., Pikitch, E. K., and E. A. Babcock. 2006. Marine parks need sharks? Letter to the Editor. *Science* 312: 527.
- Babcock, E.A., Pikitch, E.K., McAllister, M.K., Apostolaki P. and C. Santora. 2005. A perspective on the use of spatialized indicators for ecosystem-based fishery management through spatial zoning. *ICES Journal of Marine Science*. 62:469-476.
- Babcock, E. A., M. K. McAllister, and E. K. Pikitch. 2005. Evaluation of the time to rebuild overfished populations under various proposed rebuilding strategies. Report submitted to the National Marine Fisheries Service in comments to the proposed revisions in National Standard 1. October 20, 2005.
- Chapman, D. D., Pikitch, E. K., Babcock, E. A. and M.S. Shivji. 2005. Marine reserve design and evaluation using automated acoustic telemetry: a case study involving coral reef-associated sharks in the Mesoamerican Caribbean. *Marine Technology Society Journal* 39 (1):42-55.
- Pikitch, E.K. 2006. The gathering wave of ocean extinctions. Pages 195- 201 in *State of the Wild*, Volume 1. Island Press.
- Pikitch E. K., Chapman, D. D., Babcock, E. A. and M. S. Shivji. 2005. Habitat use and demographic population structure of elasmobranchs at a Caribbean oceanic atoll (Glover's Reef, Belize). *Marine Ecology Progress Series*. 302:187-197.
- Pikitch, E.K. and P. Doukakis. 2005. Recommendations for fisheries reform for São Tomé and Príncipe. Commissioned by The Earth Institute at Columbia University for the São Tomé e Príncipe Advisory Project on Sustainable Development Strategies.
- Pikitch E.K., Doukakis P., Lauck L., Chakrabarty P. and D.L. Erickson. 2005. Status, trends and management of sturgeon and paddlefish fisheries. *Fish and Fisheries*. 6:233–265
- Shivji, M. S., Chapman, D. D., Pikitch, E. K. and P. W. Raymond. 2005. Genetic profiling reveals illegal international trade in fins of the great white shark, *Carcharodon carcharias*. *Conservation Genetics*. 6:1035-1039.
- Skomal, G., Babcock, E. A. and E. K. Pikitch. 2005. Indices of blue and mako shark abundance derived from U.S. Atlantic recreational fishery data. *SCRS/2004/108 Col.Vol.Sci.Pap.ICCAT*, 58(3):1034-1043.
- UN Millennium Project. 2005. Environment and Human Well-being: A Practical Strategy. Summary version of the report of the Task Force on Environmental Sustainability (E.K. Pikitch co-author and Task Force member). The Earth Institute at Columbia University, New York, USA
- UN Millennium Project. 2005. Environment and Human Well-being: A Practical Strategy. Report of the Task Force on Environmental Sustainability (E.K. Pikitch co-author and Task Force member). Earthscan Publishers, London, UK, Virginia, USA, 139 pp.
- Babcock, E.A. and E.K. Pikitch. 2004. Can we reach agreement on a standardized approach to ecosystem-based fishery management? *Bulletin of Marine Science* 74:685-692.
- Boersma, D., Ogden, J., Branch, G., Bustamante, R., Campagna, C., Harris, G. and E.K. Pikitch. 2004. Chapter 6: Lines on the Water: Ocean-Use Planning in Large Marine Ecosystems. Pages 125-138 in Glover, L.K. and S.A. Earle, editors. *Defying Ocean's End: An Agenda for Action*. Island Press, Washington, D.C.
- Doukakis, P., Pikitch, E.K., Alpeisov, S.A., Baimukhanov, M., Sissengaliyeva, G., Melnikov, V., Yerbulekov, S. and S. Crownover. 2004. Caspian caviar and conservation: Kazakhstan's Ural River beluga. *Caucasus*

*Environment* 6(1):21-23.

- McAllister, M.K., Babcock, E. A., Apostolaki, P. and E.K. Pikitch. 2004. Outlining a statistical modeling framework to support the development of a new area-based management regime for Atlantic bluefin tuna. *Collective Volume of Scientific Papers ICCAT* 56(3):1134-1143.
- National Research Council. Committee on Cooperative Research in the National Marine Fisheries Service (Hilborn R, Dealteris J, Deriso R, Graham G, Iudicello S, Lundsten M, Pikitch E, Sylvia G, Williamson J, and K. Zwanenburg. 2004. Cooperative research in the National Marine Fisheries Service. The National Academies Press. Washington , D.C. USA.132 pp.
- Pikitch, E.K. 2004. Child of the sea becomes witness to its decline. *Fort Lauderdale Magazine* . 4(2):14-16.
- Pikitch, E.K., Doukakis, P. and C. Santora. 2004. Caspian sturgeons and captive caviar production: understanding conservation benefits. *Fish Farmer* 27(3):31-33.
- Pikitch, E.K., Santora, C., Babcock, E.A., Bakun, A., Bonfil, R., Conover, D.O., Dayton, P., Doukakis, P., Fluharty, D., Heneman, B., Houde, E. ., Link, J., Livingston, P., Mangel, M., McAllister, M.K., Pope, J. and K J. Sainsbury. 2004. Ecosystem-based fishery management. *Science* 305:346-347.
- Pikitch, E.K., Santora, C., Babcock, E.A., Bakun, A., Bonfil, R., Conover, D.O., Dayton, P., Doukakis, P., Fluharty, D., Heneman, B., Houde, E.D., Link, J., Livingston, P., Mangel, M., McAllister, M.K., Pope, J., and K.J. Sainsbury. 2004. Letter to the Editor: Response to Fishery Management and Culling. *Science* 396:1892.
- Chapman, D. D., Abercrombie, D.L., Douady, C.J., Pikitch, E.K., Stanhope, M.J. and M.S. Shivji. 2003. A streamlined, bi-organelle, multiplex PCR approach to species identification: application to global conservation and trade monitoring of the great white shark, *Carcharodon carcharias*. *Conservation Genetics* 4:415-425.
- Cerroni, R. and E.K. Pikitch. 2002. Go Fish! Announcing the new WCS/Audubon Seafood Wallet Card. *Wildlife Conservation* 105 (6):12.
- Pikitch, E.K. 2002. The Scientific Case for Precautionary Management: Current Fishery Problems Traced to Improper Use of Science. Pages 59-63 in *Managing Marine Fisheries in the United States: Proceedings of the Pew Oceans Commission Workshop on Marine Fishery Management*. Pew Oceans Commission, Arlington, Virginia.
- Pikitch, E.K. and E.W. Lauck. 2002. A Scientific Response to the CITES Justification for Setting the 2002 Total Allowable Catch of Beluga Sturgeon (*Huso huso*) in the Caspian Sea. 8 pps. Report to USFWS and CITES.
- Babcock, E.A. and E.K. Pikitch. 2001 Bayesian methods in shark fishery management. *Shark News* 13:10-12.
- McAllister, M.K., Pikitch, E.K. and E.A. Babcock. 2001. Using demographic methods to construct Bayesian priors for the intrinsic rate of increase in the Schaefer model and implications for stock rebuilding. *Canadian Journal of Fisheries and Aquatic Sciences* 58:1871-1890.
- McAllister, M.K., Babcock, E.A. and E.K. Pikitch. 2001. Using Bayesian methods to improve stock assessment and management of stock rebuilding when there is uncertainty in processes affecting recruitment. International Commission for the Conservation of Atlantic Tunas, *ICCAT Collective Volume of Scientific Papers* Vol. LII: 1071-1093 (SCRS/00/103).
- McAllister, M. K., Babcock, E.A., and E. K. Pikitch. 2001. Evaluating the relative merits of alternative methods to weight different time series of abundance indices in stock assessment. International Commission for the Conservation of Atlantic Tunas, *ICCAT Collective Volume of Scientific Papers* Vol. LII: 1094-1115 (SCRS/00/104).
- McAllister, M. K., Babcock, E.A. and E. K. Pikitch. 2001. Using Bayesian methods and decision analysis as a rational basis for dealing with conflicting stock assessment results while providing management advice on stock rebuilding. International Commission for the Conservation of Atlantic Tunas, *ICCAT Collective Volume of Scientific Papers* Vol. LII: 1706-1728 (SCRS/00/34).

- Pikitch, E. K. 2001. Caviar Emptor-Let the Connoisseur Beware. *Wildlife Conservation*. 104 (1):10.
- Pikitch, E. K. 2001. Sturgeon Stocks Gain Some Ground. *Wildlife Conservation*. 104 (5):10.
- Babcock, E.A. and E.K. Pikitch. 2000. A dynamic programming model of fishing strategy choice in a multispecies trawl fishery with trip limits. *Canadian Journal of Fisheries and Aquatic Sciences* 57:357-370.
- Babcock, E.A., E.K. Pikitch, and M. McAllister. 2000. Catch rates of blue sharks (*Prionace glauca*) in the U.S. Atlantic recreational fishery (revised). SCRS/99/48. Collected volume of scientific papers. International Commission for the Conservation of Atlantic Tunas, ICCAT Collective Volume of Scientific Papers Vol. LI: 1850 – 1858.
- Speer, L., Lauck, L., Pikitch, E.K., Boa, S., Dropkin, L. and V. Spruill. 2000. *Roe to Ruin: The Decline of Caspian Sturgeon and the Road to Recovery*. Washington, D.C. 32 p.
- President Clinton's Panel on Ocean Exploration. 2000. Discovering Earth's Final Frontier: A U.S. Strategy for Ocean Exploration. Report of the President's Panel on Ocean Exploration. 52 p.
- Babcock, E.A., Pikitch, E.K. and M. McAllister. 1999. Catch rates of blue sharks (*Prionace glauca*) in the U.S. Atlantic recreational fishery. SCRS/99/48. Collected volume of scientific papers. International Commission for the Conservation of Atlantic Tunas.
- Bublitz, C.G., Miller, S.D., Erickson, D., Pikitch, E., Suuronen, P. and E. Lehtonen. 1999. Selectivity and Mortality of Walleye Pollock Escaping from the Codend and Intermediate Section of a Pelagic Trawl. Final Report on Injury Assessment: Relationship Between Bruising and Mortality of Pollock Escaping From the Codend and Intermediate of Pelagic Trawl gear. Report submitted to National Marine Fisheries Service. (24 pp).
- Erickson, D., Pikitch, E., Suuronen, P., Lehtonen, E., Bublitz, C., Klinkert, C. and C. Mitchell. 1999. Selectivity and Mortality of Walleye Pollock Escaping from the Codend and Intermediate (=Extension) Section of a Pelagic Trawl. Final Report submitted to National Marine Fisheries Service. (67 pp).
- McAllister, M.K., Babcock, E.A., Pikitch, E.K. and M.H. Prager. 1999. Application of a non-equilibrium generalized production model to South and North Atlantic Swordfish: Combining Bayesian and demographic methods for parameter estimation. ICCAT Working Paper SCRS/99/85.
- Pikitch, E.K. 1999. A porthole of opportunity? (Op-ed that appeared in over 15 newspapers published along the Atlantic and Gulf Coasts addressing the need for shark conservation in the region).
- National Research Council. 1999. Committee on Ecosystem Management for Sustaining Marine Fisheries. *Sustaining Marine Fisheries*. National Academy Press. Washington, D.C.
- Applegate, A., Cadrin, S., Hoenig, J., Moore, C., Muraski, S. and E.K. Pikitch. 1998. Evaluation of existing overfishing definitions and to comply with the sustainable fisheries act. Overfishing Definition Review Panel Final Report to the New England and Mid-Atlantic Fishery Management Councils.
- Babcock, E.A. and E.K. Pikitch. 1998. The effect of bag limits on shark mortality in the U.S. Atlantic recreational fishery. Shark Evaluation Workshop 1998. SB-IV-25
- McAllister, M. K. and E.K. Pikitch. 1998. A Bayesian approach to assessment of sharks: fitting a production model to large coastal shark data. Shark Evaluation Workshop 1998. SB-IV-26.
- McAllister, M. K. and E. K. Pikitch. 1998. Evaluating the potential for recovery of large coastal sharks: a Bayesian decision analysis. Shark Evaluation Workshop 1998. SB-IV-27.

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- Perez-Comas, J.A., Erickson, D.L. and E.K. Pikitch. 1998. Cod-end mesh size selection for rockfish and flatfish off the U.S. west coast. *Fisheries Research*. 34:247-268
- Pikitch, E. K. 1998. Our Limited Ocean. *Wildlife Conservation*. 101(4): 14-15.
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