

The Honorable JANE LUBCHENCO, Ph.D.

Curriculum Vitae

**University Distinguished Professor
Wayne and Gladys Valley Professor of Marine Biology
Marine Studies Advisor to the President of
Oregon State University**

Education:

B.A. 1969, Colorado College (Biology; Ford Foundation Independent Study Program Scholar)

M.S. 1971, University of Washington (Zoology; advisors R.T. Paine)

Ph.D. 1975, Harvard University (Ecology; advisors T.W. Schoener, F.E. Smith)

Positions:

Assistant Professor, 1975-1977, Harvard University.

Assistant Professor 1977-1982, **Associate Professor** 1982-88, Oregon State University (OSU).

N.B.: *From 1977-1989, Dr. Lubchenco worked part-time, by choice, so she could spend more time with her two young sons. She held a 0.5 FTE tenure-track, then tenured appointment for ten years, followed by a 0.75 FTE appointment for two years; in 1989, she returned to full-time.*

Research Associate, Smithsonian Institution, 1978-1984.

Visiting Professor: University of the West Indies, Kingston, Jamaica, 1976; Smithsonian Tropical Research Institute, Panama, 1975-1984; Universidad Catolica, Santiago, Chile, 1986; Institute of Oceanography, Academia Sinica, Qingdao, P.R. China, 1987; University of Canterbury, Christchurch, New Zealand, 1994-95, 1999-2000, 2002-2003.

Professor 1988-2009; **Chair**, Department of Zoology 1989-92; **Distinguished Professor** 1993-2009, OSU (2009-2013 on leave while serving as NOAA Administrator), 2013-present.

Wayne and Gladys Valley Professor of Marine Biology 1995-2009, 2013-present, OSU.

National Science Board, member 1996-2000, 2000-2006; nominated for each term by President William Jefferson Clinton and confirmed each time by the U.S. Senate

Under Secretary of Commerce for Oceans and Atmosphere and Administrator of the National Oceanic and Atmospheric Administration (NOAA), March 20, 2009 to February 27, 2013; (on leave from OSU). Nominated by Barack Obama December 20, 2008; confirmed by U.S. Senate March 19, 2009, resigned February 27, 2013.

Mimi and Peter Haas Distinguished Visitor in Public Service and Visiting Fellow, Center for Ocean Solutions, Stanford University, March-June 2013 (on leave from OSU)

University Distinguished Professor and Marine Studies Advisor to the OSU President, 2014-present, OSU.

Inaugural U.S. Science Envoy for the Ocean, U.S. State Department, 2014-2016, under Secretary John Kerry and President Obama (*pro bono* position).

Interests/Expertise:

Science, the environment, climate and other global changes and human well-being; social responsibilities of scientists; sustainability science; use-inspired science; biodiversity and conservation biology; natural capital; environmental solutions; communication of science to the public, private sector, and policy makers; state of the ocean, rocky intertidal seashores, and coastal

upwelling ecosystems; ecosystem services; marine reserves; hypoxia ('dead zones'); ocean acidification, evolutionary community ecology; plant-herbivore interactions; biogeography; mollusks; echinoderms; seaweeds.

AWARDS and HONORS - listed below in three categories: **Honorary Academies, Honorary Degrees, and Other Major Awards and Honors**; listed chronologically within each category.

AWARDS and HONORS part 1: Honorary Academies:

(3 national, 4 international; 1 state; year elected, history, size)

- **American Academy of Arts and Sciences (AAAS)**, 1993
- **National Academy of Sciences**, 1996
- **American Philosophical Society**, 1998
- **European Academy of Sciences**, 2002-2014; resigned 2014.
- **The World Academy of Sciences (TWAS)**, 2004
- **The Royal Society**, Foreign Member, 2004
- **Academia Chilena de Ciencias (Chilean Academy of Sciences)**, Corresponding (=foreign) Member, 2007
- **California Academy of Sciences**, Fellow, 2017

AWARDS and HONORS part 2: Honorary Doctoral Degrees (22):

Drexel University, 1992; Colorado College, 1993; Bates College, 1997; Unity College, 1998; Southampton College, Long Island University, 1999; Princeton University, 2001; Plymouth State College, 2002; Michigan State University, 2003; Georgetown University, 2008; Augsburg College, 2009; Dartmouth College, 2009; University of Copenhagen, Denmark, 2009; Loyola University New Orleans, 2011; Western Washington University 2011; Stony Brook University, 2011; University of South Carolina, 2012; University of Puget Sound, 2012 Yale University, 2012; Rutgers University, 2013; Willamette University, 2015; American Museum of Natural History, 2018; University of Antwerp, to be awarded April 2019.

AWARDS and HONORS part 3: Other Major Awards and Honors

Cumulative: 8 'Science Citation Classics' or 'Top 0.25%' Papers, ISI (Institute for Scientific Information) Current Contents.

- 1979** - **George Mercer Award**, *Ecological Society of America*, (co-recipient Bruce A. Menge); outstanding paper published anywhere in the world by a young ecologist
- 1986** - **Outstanding Teacher Award**, *OSU Alpha Lambda Delta* (freshman honor society)
- 1987** - **National Lecturer**, *Phycological Society of America*, 1987-89
- 1990** - **AAAS Fellow**, *American Association for the Advancement of Science*
- 1992** - **Pew Scholar in Conservation and the Environment**, *Pew Charitable Trusts*, 1992-1995
- 1993** - **Distinguished Professor**, *Oregon State University*, 1993-present
- **MacArthur Fellow**, *John D. and Catherine T. MacArthur Foundation*, 1993-1998
- 1994** - **Oregon Scientist of the Year**, *Oregon Academy of Science*

- **Golden Eagle Award**, *Council for International Nontheatrical Events (CINE)*, Washington, D.C. (for National Geographic film *Diversity of Life*), with co-recipients James and Elaine Larison
- 1997** - **AWIS Fellow**, *Association for Women in Science*
- **Distinguished Service Award**, *Ecological Society of America*
- 1998** - **Honorary Member**, *Golden Key National Honor Society*, OSU
- **National Conservation Award**, *Daughters of the American Revolution*
- **Founder's Education Award**, *Daughters of the American Revolution*
- **Sustained Achievement Award**, *Renewable Natural Resources Foundation*
- 1999** - **David B. Stone Award**, *New England Aquarium*
- **Howard Vollum Award**, *Reed College*
- 2001** - **Honorary Member for Life**, *British Ecological Society*; 'the highest honor that the Society gives' 'for a lifetime's achievement in the science of ecology or its application.'
- **Golden Plate Award**, *The American Academy of Achievement*
- 2002** - **Ed Ricketts Memorial Award**; *Monterey Bay National Marine Sanctuary*
- **The Heinz Award for the Environment**, *Heinz Family Foundation*
- **Outstanding Woman Scientist**, *Discover Magazine*, November
- **CSSP Leadership Citation**, *Council for Scientific Society Presidents*
- 2003** - **Distinguished Service Award**, *Society for Conservation Biology*
- **ISI Highly Cited Researcher in Ecology/Environment**, *ISI*
- **Distinguished Alumna Award**, *College of Arts and Sciences, University of Washington*
- **Nierenberg Prize for Science in the Public Interest**, *Scripps Institution of Oceanography*; for 'outstanding contributions to science in the public interest'
- 2004** - **Environmental Law Institute Award** (the first scientist to receive this honor)
- **Distinguished Scientist Award**, *American Institute of Biological Sciences*
- 2005** - **AAAS Public Understanding of Science and Technology Award**, *American Association for the Advancement of Science* (the first woman to receive this award)
- 2006** - **Centennial Award**, *Botanical Society of America*, for exemplary service to the plant sciences
- **Gilfillan Award**, *OSU College of Science*, for distinguished scholarship in science
- **Sustainability Science Award**, *Ecological Society of America*, for the Millennium Ecosystem Assessment, 2005; 'for a peer-reviewed publication that makes the greatest contribution to sustainability science through the integration of ecological and social sciences.'
- 2007** - **Beijer Fellow**, *Royal Swedish Academy of Sciences' Beijer Institute of Ecological Economics*
- 2008** - **The Zayed International Prize for the Environment**, for Scientific and Technological Achievements, *United Arab Emirates*, "for leadership in environmental sciences".
- 2010** - **Peter Benchley Ocean Award for Excellence in Policy**, *Benchley Awards*
- **Coastal Hero Award**, *Sunset Magazine*, for "amazing work in protecting and preserving the West's greatest treasures, the Pacific Ocean and its thousands of miles of shoreline"
- **Newsmaker of the Year**, *the scientific journal Nature*, cover photo and feature article.
- 2011** - **Public Understanding of Science Award**, *The Exploratorium*, San Francisco
- **Alumna Summa Laude Dignata**, *University of Washington*; the highest award for a graduate
- **Achievement Award**, *D.C. Vermont Law School Alumni Association*
- **Blue Planet Prize**, *Asahi Glass Foundation*, Tokyo, Japan
- **Gold Medal Award**, *Department of Commerce*, for extraordinary service by NOAA during the BP Deepwater Horizon Oil Spill Disaster
- **Woman of Achievement Award**, *Oregon Commission for Women*

- 2012**
- **Distinguished Colorado Alumna**, *Girls Scouts of America*
 - **Woman of the Year**, *Women's Council on Energy and the Environment*
 - **U.S. Coast Guard Academy Hedrick Fellow**, *Coast Guard Foundation*, "honors citizens whose distinguished public service shaped the course of our nation"
 - **National Portrait Project**, featured in portraits by Lincoln Schatz of contemporary American leaders; Smithsonian National Portrait Gallery
 - **Women in Science and Technology Hall of Fame, inductee**, *Women in Science and Technology International (WITI) Foundation*, "for exceptional contributions to science and technology"
 - **Inaugural Ocean Hero, Sailors for the Sea**, 1 of 3 heroes (co-recipients Charlie Rose and Sir Russell Coutts)
 - **AGU Presidential Citation for Science and Society**, *American Geophysical Union*, 1 of 3 Inaugural awards (co-recipients: Sen. Olympia Snowe and Google Earth); "celebrates leaders whose work has advanced understanding and appreciation of the value of Earth and space science"
 - **Inaugural ESA Fellow**, *Ecological Society of America*
- 2013**
- **Honorary Lifetime Fellow and Member**, *American Society of Naturalists*. (The total number of living Fellows is limited to 12.)
 - **Distinguished Public Service Award**, *U.S. Coast Guard*. (The highest award for a civilian.) "for extraordinary vision, leadership and commitment to maritime stewardship..."
 - **Lifetime Achievement Award**, *National Marine Sanctuaries Foundation*
 - **Frontiers of Knowledge Award in Ecology and Conservation Biology**, *BBVA Foundation*, "for characterizing marine ecosystems and providing the science behind the design of protected areas"
 - **Climate Change Award**, *Prince Albert II of Monaco Foundation*
 - **Stroud Award for Freshwater Excellence**, *Stroud Water Research Center*
- 2014**
- **Seattle Aquarium Medal**, *Seattle Aquarium*, "for leadership and longstanding commitment to issues facing the environment, oceans and our climate, and for inspiring many, especially the next generation"
 - **NatureServe Conservation Award**, *NatureServe*, "for steadfast commitment to science as an instrument of public policy and understanding"
 - **Eminent Ecologist Award**, *Ecological Society of America*, "The most prestigious ESA award, in recognition of an outstanding body of ecological work of sustained ecological contributions of extraordinary merit"
 - **TWAS Medal**, *The World Academy of Sciences (TWAS)* "for outstanding achievements in research"
 - **Miguel Alemán Medal**, *Miguel Aleman Foundation*, Mexico City, the XX Miguel Alemán Lecture delivered at Universidad Nacional Autónoma de México.
 - **Stephen H. Schneider Award for Outstanding Climate Science Communication**, *Climate One, The Commonwealth Club of California* for "extraordinary scientific contributions and an outstanding record of communicating the findings effectively to a broad public"
- 2015**
- **John and Alice Tyler Prize for Environmental Achievement**, "for effective and valiant public leadership to sustain our global ocean commons and for inspired work in education, mentorship, science communication, and science policy. Her research and policy efforts have advanced understanding of threats to ocean biodiversity and the feasibility and benefits of recovering depleted fisheries and creating marine protected areas to enhance our global life support systems. She sets an example for all scientists to take on the responsibility of communicating science to inform public understanding and policy that sustains earth's natural resources"

- 2016** - **Linus Pauling Legacy Award**, Oregon State University Libraries and Press; ‘for her leadership in ecology and environmental sustainability; for the inspiration that she has provided to an untold number of students studying in the STEM fields, among other disciplines; for her focus on the interactions between the natural environment and human well-being; and for her courage in agitating for meaningful change to protect the Earth’s ecosystem for generations to come.’
- 2017** - **Oregon History Maker**, Oregon Historical Society, ‘honors Oregonians whose outstanding achievements have shone brightly on our state.’
- **Excellence in Ecology Prize**, International Institute for Ecology, Hamburg, Germany.
 - **Sapientia et Doctrina Medal**, Fordham University, to celebrate its 175th Anniversary
 - **Public Welfare Medal**, U.S. National Academy of Sciences, ‘the most prestigious award given by the NAS’; ‘for your successful efforts in bringing together the research community, its sponsors, and the public policy community to focus on urgent issues related to global environmental change.’
 - **Pioneer in Science**, World Science Festival. Each year, the Pioneers in Science program gives high school students from around the globe rare and intimate access to one of the world’s most renowned scientists in a town hall style discussion.
 - **Sustainability Science Award**, Ecological Society of America, for the *Science* paper Liu et al. 2015. ‘a peer-reviewed publication that makes the greatest contribution to sustainability science through the integration of ecological and social sciences.’
 - **Phi Beta Kappa Honorary Member**, Oregon State University Chapter
 - **Fellow, California Academy of Sciences**, for outstanding contributions to the natural sciences.
- 2018** - **Vannevar Bush Award**, National Science Board, honors truly exceptional lifelong leaders in science and technology who have made substantial contributions to the welfare of the Nation through public service activities in science, technology and public policy.
- **Fellows Medal**, California Academy of Sciences, ‘awarded to an especially prominent scientist for outstanding contributions to science’ (to be awarded Oct 8).
- 2019** - **Ocean Tethys Award**, Ocean Visions Initiative, inaugural recipient, for ‘significant achievements as an international leader in science and policy, as well as your untiring efforts to bring a positive outlook on the ocean’s future’ (to be awarded April 2019).

Major Elected Offices Held:

International Council for Science (ICSU), Past-President 2005-2007, President 2002-2005, President-Elect 1999-02;

National Academy of Sciences, elected to Council 1999-2002, Executive Committee 2000-2002;

American Association for the Advancement of Science, President-Elect, President, Chair of Board of Directors 1995-98;

ICSU’s Scientific Committee on Problems of the Environment, SCOPE, Executive Committee, 1992-95;

Ecological Society of America: Vice-President, President-Elect, President, Past President 1988-94;

Editorial Boards: (Lubchenco resigned from all editorial boards when she became NOAA Administrator in 2009 to avoid any real or perceived conflicts of interest; shading denotes previous and **current** responsibilities.)

American Naturalist, 1978-81; *Oecologia*, 1985-88; *Journal of Phycology*, 1987-90; *Ecological Applications*, 1989-93; *The Northwest Environmental Journal*, 1991-93; *Trends in Ecology & Evolution*, 1991-2006; *Conservation Ecology*, 1995-2001; *Issues in Ecology*, 1995-2002, 2003-2005;

Ecosystems, 1997-99; *Environmental Conservation*, 1998-99; Advisory Editor, *Ecological Studies*, Springer-Verlag, 1993-2000; Associate Editor, *Encyclopedia of Biodiversity*, Academic Press, 1997-2000; International Advisory Board, *Encyclopedia of Global Environmental Change*, Wiley, 1998-2001; Editor for *Special Issue on Marine Reserves, Ecological Applications*, 1999-2002; *Ad hoc* Editor, *Proceedings of the National Academy of Sciences*, 1998-2009; ***Frontiers in Ecology and the Environment***, International Advisory Board, 2001-2009; 2013-present; *Human-Environment Interactions* (U. Michigan book series), 2003-2009; *Faculty of 1000*, 1 of 3 Inaugural Heads of Faculty for Ecology and Evolution, 2003-2009; *Marine Ecosystems and Management*, 2007-2009; co-editor of Special Feature on *Nature as Capital*, *Proceedings of the National Academy of Sciences*, 2014-2015.

Current and Recent Primary Leadership Activities: Discovering, sharing and using new knowledge; inspiring and empowering scientists and non-scientists; partnering with leaders across private and public sectors; championing science, the ocean and sustainability.

- **Expert Group for the High Level Panel to Build a Sustainable Ocean Economy.** Co-chair. This 18-month project, with its Secretariat based at the World Resources Institute, aims to influence national and international agendas to make uses of the ocean more sustainable and to lessen adverse impacts on ocean ecosystems and people. www.oceanpanel.org
- **The MPA Project.** Founder and Project Leader. A global collaboration of governmental, non-governmental, and academic leaders working together to bring clarity and transparency to discussions and decisions about Marine Protected Areas (MPAs) and create the MPA Guide. 2017-present
- **The Joint Scientific Experts Group.** Member. A collaboration between U.S. and Chinese academic and government scientists to advise both governments on scientific collaborations that would inform both nations' use of the ocean.
- **Science of Marine Reserves Projects.** Co-founder and chair. The Science of Marine Reserves projects synthesize global scientific information about fully protected marine areas for lay audiences. The most recent project focused on the Mediterranean Sea, using case studies from the region and a major update of global scientific information about marine reserves. Published in 2016 in English; translations underway: French, Italian, Turkish, and Arabic. 2007-present
- **National Ocean Protection Coalition.** Co-founder and chair. A coalition of over fifty U.S. not-for-profit organizations to promote the effective use of highly or fully protected areas in U.S. federal waters. Outcomes include a four-fold expansion of the area of the U.S. EEZ that is highly protected (from 5% to 23%) via three marine national monuments; permanent removal of significant areas in the Arctic, Bristol Bay and the Atlantic coast from oil and gas drilling; and creation of a the Bering Strait Climate Resilience Area co-managed by Native Alaskans and the federal government. The NOPC is currently leading the defense of these achievements. 2014-present
- **Sustainable Development Solutions Network (SDSN) - Leadership Council member.** After successfully advising the UN Secretary General and the General Assembly on creation of the Sustainable Development Goals (SDGs), the SDSN now focuses on assisting with their implementation. Lubchenco focuses on the ocean SDG, integration of the ocean and biodiversity SDGs with other SDGs, and growing scientific capacity to achieve the SDGs. 2014-present.

- **U.S. National Academy of Sciences' LabX Public Engagement Program, Advisory Board Chair.** LabX builds on the successes of the Koshland Science Museum program to promote evidence-based decision making on issues of significant relevance to communities. (2017-present)
- **Seafood Business for Sustainability (SeaBOS), Advisor.** Organized by the Stockholm Resilience Center, this collaboration between CEOs of the 10 largest seafood companies in the world and scientists is committed to improving ocean stewardship. 2016-present
- **OSU's Marine Studies Initiative. Advisor to the President and Provost,** Lubchenco guides development of the initiative that integrates research, teaching, and outreach components across all of OSU's colleges. 2014-present.
- **U.S. Science Envoy for the Ocean.** This position was created within the State Department's Science Envoy Program and under the leadership of Secretary John Kerry to elevate ocean issues on the international diplomacy agenda and advance use of good science to address climate and ocean agendas. Lubchenco was chosen as the first Science Envoy for the Ocean. She worked with presidents, ministers, academics, students, civil society organizations, industry and science academies in Asia (China, Indonesia) and Africa (South Africa, Mauritius and Seychelles) to promote fishery reform, sustainable aquaculture, protected areas, smart planning, minimize impacts of climate change and ocean acidification to achieve sustainable uses of the ocean through smart economic development that benefit people and nature. She emphasized growing greater scientific capacity to inform public understanding and guide decision-making. Her official tenure as Envoy is over, but she continues to be actively involved in projects she initiated during that service. 2014-2016
- **Lubchenco is actively involved in the activities of several not-for-profit organizations or philanthropic foundations on whose boards she serves. (See list below.)**

Accomplishments of NOAA during Lubchenco's term as Under Secretary of Commerce for Oceans and Atmosphere and Administrator of the National Oceanic and Atmospheric Administration (NOAA).

President-Elect Barak Obama nominated Lubchenco in mid-December 2008 as part of his 'Science Team'. She was confirmed by the U.S. Senate March 19, 2009 and sworn in on March 20. After nearly 4 years in office, she submitted her resignation, effective February 27, 2013. During her tenure, NOAA employed around 12,800 federal employees and had a budget that went from \$3.9B to \$5.3B, a 36% increase at a time when many agencies' budgets were declining.

Mission: Lubchenco brought a strategic focus to NOAA's diverse mission of science, service and stewardship of the ocean and atmosphere. Under her leadership, NOAA focused on restoring fisheries to sustainability and profitability, restoring the ocean and coasts to a healthy state, ensuring continuity of the nation's weather and environmental satellites, developing a Weather-Ready Nation, promoting climate and ocean acidification science and delivering quality climate products, strengthening science and ensuring scientific integrity at NOAA, and delivering the highest quality science, services and stewardship possible. Healthy oceans and coasts and a nation prepared for severe weather, disasters and climate change are keys to economic prosperity and a strong democracy.

Management: Under Lubchenco's leadership, NOAA increased the effectiveness and decreased the costs of corporate services such as acquisitions and IT, for example by migrating

communications systems to the cloud to enhance functionality, strengthen security and reduce costs.

Priority Areas:

Science: Science was strengthened at NOAA: the position of Chief Scientist (vacant for 16 years) was reestablished, the number of senior scientific career positions doubled, career paths for junior scientists strengthened, and the status of social sciences at NOAA enhanced. NOAA created its first Scientific Integrity Policy that, among other things, forbids distortion, manipulation, suppression or cherry-picking of science, and allows scientists to speak freely to the media about their findings. NOAA's policy was hailed as 'the platinum standard' for agency scientific policies. Through workshops and a new Council of Fellows, scientists at NOAA have a stronger voice in setting scientific priorities of the agency.

Ocean/Coasts: NOAA played a central role in designing and implementing the Nation's first Ocean Policy. Established by Executive Order in June 2010, the policy's main message is that 'A Healthy Ocean Matters.' The policy declares a responsibility for stewardship of the oceans, coasts and Great Lakes that relies on coordination across federal agencies, regional engagement, science and ecosystem-based management. NOAA sits on the National Ocean Council that implements the Policy.

Fisheries: After decades and decades of overfishing, NOAA turned the corner in ending overfishing in U.S. federal waters, rebuilt numerous depleted stocks and returned fishing to profitability through use of catch limits and accountability measures, as required by the revised Magnuson Stevens Act, and through use of catch shares that align conservation and economic incentives. Overfishing in federal waters was slashed 60%. Depleted fisheries are recovering. Jobs and revenues have increased. One-third of U.S. fisheries managed in federal waters and two-thirds of the fish caught there are now under catch share plans. NOAA now provides global leadership in addressing Illegal, Unregulated and Unreported (IUU) fishing and reforming regional fishery management organizations. NOAA has a new Aquaculture Policy and launched a National Shellfish Initiative that focus on achieving sustainable aquaculture.

Climate: NOAA produced and supported world-class climate science, led federal agency efforts to develop the most ambitious National Climate Assessment ever, established regional climate centers, and developed a new generation of climate products that promote public understanding and support informed decision-making on mitigation and adaptation. For example, NOAA signed a Memorandum of Understanding with the Western Governors' Association to deliver climate services such as drought forecasts. NOAA tracked and disseminated information about climate patterns. As demands for NOAA climate data skyrocketed, NOAA created the climate.gov website that routinely received around 40,000 unique visits per month, with >80,000 during high profile events.

Satellites: A seriously flawed but essential weather satellite program was completely restructured to ensure the continuity of climate and weather observations from space. Three NOAA satellites were successfully launched (GOES-14, GOES-15 and Suomi-NPP) and are delivering vital weather and other environmental data. Other NOAA satellite programs are positioned to provide vital environmental, search and rescue, and other key observations from space, pending funding decisions. These satellites directly support NOAA's weather, climate and ocean monitoring and operational forecasting missions.

Weather: NOAA consistently provided life-saving forecasts and warnings through a time of unprecedented extreme weather events. In 2009-2013, the U.S. witnessed 770 major tornadoes, 70 Atlantic hurricanes or tropical storms, 6 major floods, 3 tsunamis, historic droughts, prolonged heat waves, and record snowfall and blizzards. In 2011 alone, every type of extreme weather occurred: historic floods, blizzards, tornadoes, wildfires, drought and hurricanes, with a record-setting 14 >\$1Billion disasters. 2012 brought 11 >\$1B disasters, including Super Storm Sandy and Hurricane Isaac. (Until recently, the average number of >\$1Billion disasters a year was 3-4.) NOAA's science strengthened the accuracy and lead time of warnings and undoubtedly saved countless lives. A new effort, called 'Weather-Ready Nation', draws on social science to help ensure that people understand and use warnings to stay safe. In March 2011, NOAA upgraded 160 weather radar stations around the country with dual polarization technology – the most significant enhancement to the nation's weather radar network since Doppler was established in the 1990s.

BP/Deepwater Horizon Oil Spill Disaster: NOAA was intimately involved in the federal response to this disaster, leveraging its science, legal expertise and response capacity to provide oil spill trajectories and weather forecasts, inform response efforts, keep seafood safe, protect wildlife and habitats, assess damage and restore natural resources and the public's access to them. During the disaster, NOAA issued 150 3-day oil surface location forecasts, 30 loop current location graphics, >4,000 spot weather forecasts; documented 637 dead sea turtles and rescued, rehabilitated and eventually released 339 turtles; surveyed over 4,000 mi of shoreline; collected and analyzed >35,000 water and sediment samples; closed >88,000 mi² of federal waters (37%) in the Gulf; tested >4600 fish and shrimp samples to ensure seafood was safe to eat. NOAA's and other agencies' scientific contributions to the disaster are detailed in a 2012 issue of the *Proceedings of the National Academy of Sciences*. NOAA also led a novel, ecosystem-based approach to the Natural Resource Damage Assessment process that facilitated the successful law suit brought by the Department of Justice against the Responsible Parties, and is now informing restoration efforts.

3/11/11 Tohōku Earthquake, Tsunami, Radiation and Marine Debris Disaster: NOAA integrated its assets across the agency to provide tsunami information to U.S. coastal communities; air and ocean plume modeling to help inform understanding of where radioactive material would go; modeling, tracking and community assistance in understanding and predicting where marine debris from the tsunami was and would go; and assistance to coastal communities and states to prepare for and remove marine debris.

Protected Species: NOAA proposed for listing or listed 6 subspecies of ice seals and 66 species of corals, all of which are threatened or endangered by climate change and other factors. These new and proposed listings would more than double the number of ESA-listed species for which NOAA has responsibility.

Arctic: NOAA developed an Arctic Vision and Strategy and created an Arctic Task Force to address environmental, social, economic and safety issues emerging in the fragile Arctic region, including mapping to support new safety, a precautionary fishery management plan, innovative research and data partnerships to improve science-based decision-making.

Communications: Under Lubchenco's leadership, NOAA embraced social media, employed crowd sourcing, and strengthened its communications approaches.

International Diplomacy: Lubchenco served as the Head of Delegation for the President's Delegation to Yeosu, South Korea for U.S. National Day at the 2012 World Expo, and as Head of

the U.S. Delegation to the World Climate Conference in Geneva, 2009. In addition to numerous high-level meetings with leaders from other nations to create and strengthen international partnerships, she addressed the European Parliament Committee on Fisheries about their proposed reforms of the Common Fishery Policy, drawing on U.S. experiences with the Magnuson Stevens Act and catch shares.

Previous Primary Leadership Activities: (Lubchenco resigned from any ongoing activities when she became NOAA Administrator in 2009 to avoid any real or potential conflicts of interest.)

- **Aldo Leopold Leadership Program.** Co-founder and Chair 1993-2002. Advanced leadership and communication training program for academic environmental scientists; Co-Chair 2003-2006; Senior Advisor and Chair of Board of Advisors, 2006-2009. <www.leopoldleadership.org>
- **Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO).** Co-Founder and Lead Principle Investigator of 13 Co-PIs until 2009. PISCO is a collaborative effort to conduct long-term, large-scale, interdisciplinary research, teaching and outreach focused on the near-shore environment of the California Current Large Marine Ecosystem. With \$48 million in grants from the Packard and Moore Foundations, and an additional \$40 million in leveraged and complementary funds, this consortium of four universities (OSU, Stanford, UC Santa Barbara and UC Santa Cruz) is revolutionizing our understanding of the near-shore marine ecosystems along the coasts of Oregon and California (1999-2009) with fundamental advances in science. <<http://www.piscoweb.org>>
- **COMPASS,** Co-Founder, Principal and Chair. (1999-2007). COMPASS is a consortium of academic scientists and communication experts who train, connect, support, and empower environmental scientists to be more effective in communication and engagement with policy makers and the public. Following successes with marine reserves and ecosystem-based management, COMPASS gradually broadened the topics and ecosystems it focuses on. <<http://www.compassonline.org>>
- **Pew Oceans Commission,** Commissioner. Independent U.S. commission chaired by Christie Todd Whitman then Leon Panetta and funded by the Pew Charitable Trusts to evaluate U.S. ocean policy (2000-2003.) The majority of its recommendations have now become law or policy: fishery reforms, National Ocean Policy, marine reserves and more.
- **Joint Oceans Commission Initiative,** Member. The Joint Initiative is a merger of the Pew Oceans Commission (on which Lubchenco served) and the U.S. Commission on Ocean Policy. JOCI exists to promote adoption of the Commissions' recommendations to restore and sustain America's living oceans. (2005-2009) <<http://www.jointoceancommission.org/>>
- **International Council for Science (ICSU),** Past President (2006-2007), President (2002-2005). ICSU is the premier non-governmental organization representing science and scientists worldwide. Founded in 1931, ICSU's members include 106 multi-disciplinary National Scientific Members (national science academies or scientific research councils) and 28 international, disciplinary Scientific Unions. ICSU's committees, interdisciplinary bodies and joint initiatives conduct and oversee a diverse portfolio including international scientific assessments, major international research programs, capacity building programs and much more. Lubchenco was the first woman President. <<http://www.icsu.org/>> Under her leadership, ICSU sharpened its focus on effectiveness; strengthened regional activities through creation of 4 regional offices, began the process of integrating its flagship programs in climate change, biodiversity and

ecosystem services, the environment, and human dimensions; and streamlined its operations to be more responsive and effective.

- **Millennium Ecosystem Assessment (MA)**, Convening Lead Author (Synthesis for Business and Industry) and Lead Author (Millennium Development Goals chapter), 2002-5.
<<http://www.MAweb.org>>
- **Oregon Governor Ted Kulongoski's Advisory Group on Global Warming**. Co-chair, 2003-2005. The Governor and his successors have implemented most of the group's key recommendations of actions the state should take to reduce greenhouse gas emissions.
<<http://oregon.gov/ENERGY/GBLWRM/Strategy.shtml>>
- **International Consortium for Research in Upwelling Marine Biogeographic Areas (ICORUMBA)**, 1 of 8 Principal Investigators, 1992-2009. Researchers at 6 universities (OSU, University of California at Santa Barbara, Princeton, Universidad Catolica (Chile), University of Canterbury (New Zealand), and University of Cape Town (South Africa) conduct comparative studies of coastal marine upwelling ecosystems in the California, Humboldt, Benguela and Tasman Current Large Marine Ecosystems, with an emphasis on training graduate and postdoctoral students. Core support was from the Andrew W. Mellon Foundation; over \$5 million over 14 years. <intertidalweb.org>
- **Climate Central**, Co-Founder, Vice Chair and Secretary, 2008. Climate Central is a not-for-profit, non-advocacy organization whose mission is to communicate the science of climate change to U.S. audiences in a manner that is understandable, relevant, credible and useful. The focus is on climate science, impacts and solutions.
- **Aspen Dialogue and Commission on Arctic Climate Change**, Commissioner, 2008-2010; convened by the Aspen Institute to examine the implications of climate change for the Arctic, assess the adequacy of current multilateral arrangements and scientific understanding to sustainably manage impacts in the region, and make recommendations for greater international cooperation in regulating human activities that affect the Arctic environment and it's peoples.
- **Science of Marine Reserves Project of PISCO**, Team Leader, 2007-2009; 2013-present. The team has provided scientific content for print, video and web communications about marine reserves. Tools include 5 booklets (International, U.S., Latin America and the Caribbean, and European and Mediterranean versions, with the U.S. and LAC available in English and Spanish), a layer of **Google Earth** on Marine Protected Areas, and a web portal **ProtectPlanetOcean.org**, collaborative projects with Google and with IUCN, the International Union for the Conservation of Nature (www.piscoweb.org/outreach/pubs/reserves).

Advisory Services Recent and Current:

1. Boards of Directors or Trustees (Lubchenco resigned from all but one board in 2009 when she became Administrator of NOAA to avoid any real or potential conflict of interest. Because the Smithsonian is partly governmental, government officials may serve on Smithsonian boards without conflicts.)

World Resources Institute, 1993-2000; **Environmental Defense Fund**, Trustee 1995-2009, 2013-2018, Science Advisory Committee, 1995-2009, 2014-2018; Co-chair of Oceans Committee, 1997-2009; Vice-Chair 2005-2009; Oceans Committee 2014-present; Ecosystem Committee 2014-2018; Honorary Trustee, 2018-present; **Monterey Bay Aquarium**, 1995-2007, Program Committee, 1995-

2007; **Royal Swedish Academy of Sciences, Beijer Institute for Ecological Economics**, 1999-2004; **SeaWeb**, 2000-2007; **David and Lucile Packard Foundation** Trustee, 2001-2004, Trustee Emerita 2004-2009, Trustee 2013-present; **Monterey Bay Aquarium Research Institute**, Trustee 2007-2009; **Smithsonian Institution's National Museum of Natural History**, Board of Advisors 2007-present; **The Nature Conservancy**, Director, 2014-2017; Harvard University Board of Overseers, 2014-2018; **National Geographic Society**, Trustee, 2014-present; **Prince Albert II of Monaco Foundation**, Director, 2014-present; **Oceano Azul Foundation**, Trustee, 2017-present.

2. National Academies/National Research Council Appointments. NRC, Biological Systems and Dynamics of Global Change, working group, 1988; NRC, Board on Environmental Studies and Toxicology (BEST), 1989-92, 1992-95; BEST, Chair of Natural Resources and Applied Ecology Working Group II, 1990-92, 1992-95; NRC, Committee to Review Department of the Interior's Mineral Management Service's Outer Continental Shelf Environmental Studies Program, liaison, BEST, 1989-92; NAS, Panel on Adaptation, Policy Implications of Greenhouse Warming, 1989-91; NRC, Ecological Effects of Human Activity, Planning Meeting, 1991; NRC, Committee on Environmental Research, 1991-93; NRC, Ocean Studies Board, Workshop on Biodiversity in Marine Systems, 1994; NRC, Committee on Ecosystem Management and Sustainable Fisheries, 1995-97; NRC, Committee on Biodiversity Forum, 1995-97; NAS, Temporary Nominating Group on Global Change, 1996; NAS Committee on Creationism, 1996; NAS, delegate to Class Membership Committee, 1997, 1998; NRC, Ecosystem Panel, 1997-1999; NAS, Robertson Memorial Lecture, Selection Committee, 1998; NAS Committee on Class and Section Structure, 1999-2001; Sub-Committee, Earth, Environment, Agriculture and Resources, 1999-2001; NAS Development Committee, 1999-2002; NAS, Member of Council, 1999-2002; NAS Council Committee on Scientific Programs, 1999-2002; NAS Council Committee on Budget and Internal Affairs, 1999-2002; First Chair of newly created Section of Environmental Sciences and Ecology of NAS, Section 63, 2000-2001; NAS Executive Committee, 2001, 2002; NAS Committee on Sustainability Science, 2002-2003; NRC Committee on International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts, 2006-2007; NAE Blue Ribbon Task Force on Grand Challenges for Engineering, 2006-2007; Section 63 delegate to Council Membership Committee, 2007-2008; NRC Ocean Studies Board Review Team member, 2007-2008; NRC Committee on Ecological Impacts of Climate Change, 2008; NRC Panel on Advancing the Science of Climate Change of the Committee on America's Climate Choices, 2008-2009; **LabX Public Engagement Program**, Chair, 2017-present.

3. National Science Board Appointments

Member 1996-2006: The NSB provides advice to the President, Congress and the Nation about science and technology and is the Board of Directors of the National Science Foundation. **Committee on Education and Human Resources**, 1996-1997; **Committee on Programs and Plans**, 1997-2006; **Task Force on the Environment**, Chair, 1998-2000; **International Task Force**, 2000-2002, 2005-2006; **Task Force on Science and Engineering Infrastructure**, 2001-2003; **Committee on Strategy and Budget**, 2001-2006; **Nominating Committee**, 2002; **Subcommittee on Polar Issues**, 2002-2006; **Nominating Committee**, 2006.

4. National Advisory Boards and Panels (When she became Administrator of NOAA in 2009, Lubchenco resigned from all advisory boards to avoid any real or potential conflict of interest.)

White House Office of Science and Technology Policy, National Science and Technology Council's National Forum on Environment and Natural Resources R&D; Chair, Biodiversity and Ecosystem Dynamics Group, 1994; **Pew Fellows Program in Conservation and the Environment**, Advisory Committee, 1995-98; **Corvallis City Council**, Advisory Commission on Open Space, 1995-98; **Living On Earth**, PBS radio show, Scientific Advisory Board, 1997-2000; **National Marine Fisheries Service, Ecosystem Principles Advisory Panel**, 1997-2000; **President's Council of Advisors on Science and Technology (PCAST), Committee on Biodiversity and Ecosystems**, 1997-1998; **Sea Studios Foundation, The Shape of Life production**, Advisory Board, 1997-2001; **Oregon State of the Environment Report**, Science Panel, 1998-1999; **Consultative Group on Biological Diversity**, Advisor's Forum, 1998; **Pacific Ocean Conservation Network**, Scientific Advisory Committee, 1997-98; **AAAS, Millennium Symposium**, AAAS and the American Bar Association, 1998-2000; **Science and Technology News Network**, Advisory Board, 1998-2009; **National Geographic Society's Sustainable Seas Expeditions**, Technical Advisory Committee, 1998-2001; **Earth Day 2000 National Council**, 1999-2000; **Ecotrust Council**, 1999-2009; **Forum on Religion and Ecology**, Advisory Board, 1999 – 2009; **International Biodiversity Observation Year**, Advisory Board, 2000-2002. **Center for Informal Learning and Schools**, collaboration among the Exploratorium, University of California Santa Cruz and Kings College London, 2001-2005; **Sea Studios Foundation, Strange Days on Planet Earth production**, Advisory Board, 2001-2006; **Doris Duke Charitable Foundation**, Advisory Committee 2002; **Vulcan** (Paul Allen's Organization), Advisor, 2000-2002; **University of Washington, Friday Harbor Laboratories**, Ten Year Review Committee, 2002; **University of Washington, Department of Biology**, Board of Visitors, 2002-2005; **University of Washington, Friday Harbor Laboratories Centennial Symposium Committee (Chair)**, 2003-2004; **Governor of Oregon's Global Warming Advisory Group**, co-chair, 2003-2005; **The Ocean Foundation**, Board of Advisors, 2006-2009; **Duke University Nicholas Institute for Environmental Policy Solutions**, Board of Advisors, 2006-2009; **Stanford University Woods Institute for the Environment**, Board of Advisors, 2006-2009; **Google Ocean** Council of Advisors, 2007-2009; **Sailors for the Sea**, Science Advisory Committee, 2008-2009; **Environmental Law Institute 40th Anniversary Committee**, 2008-2009; **Aldo Leopold Foundation**, Advisory Council, 2008-2009; **The Natural History Network**, Advisory Council, 2008-2009; **MEDEA Science Advisory Committee**, 2010-2014; **Leonardo DiCaprio Foundation** Advisory Committee, 2013-present; **Union of Concerned Scientists Center for Science and Democracy**, Inaugural Steering Committee, 2013-2014; **X-Prize Foundation Energy and Environment** Advisory Committee 2013-2018; **Department of Global Ecology, Carnegie Institution**, Advisory Committee, 2013-2016; **Joint Ocean Commission Initiative** Leadership Council, 2013-present; **MomentUs** Leadership Council, 2013-2017; **Inian Islands Institute** Advisory Committee, 2013-present; **Georgetown University Environmental Initiative**, Advisory Committee 2013-2018; **Aclima**, Board of Advisors, 2014-present; **Anthropocene Advisory Committee**, co-chair, advising Smithsonian Institution's National Museum of Natural History on its new fossil hall, *Deep Time*, 2017-present.

5. Selection Committees

Pew Fellows in Marine Conservation 1995-98; **Aldo Leopold Leadership Program** 1998-2008; **David and Lucile Packard Foundation**, Interdisciplinary Science Program, 1998-2001; **James S. McDonnell Centennial Fellowships**, Selection Committee for Global and Complex Systems Fellows,

1997-99; American Association for the Advancement of Science, *Science* Editor-in-Chief, 1999-2000; Ecological Society of America, Nominating Committee, 2001-2002; John B. Oakes Award for Distinguished Environmental Journalism, 1999-2004; Smithsonian Institution Natural History Museum Sant Chair in Marine Science, 2005-2006; AAAS Committee on Nominations, 2007, 2008; Chair of Nominating Committee for National Science Foundation's Head of GEO Directorate, 2007; The World Academy of Science, Biological Sciences Membership Selection Committee, 2013-2017; Peter Benchley Ocean Awards, Selection Committee, 2013-2017; Alan T. Waterman Award Committee, National Science Foundation, 2014-2017; Rare's Solution Search Selection Committee, 2014-15; American Association for the Advancement of Science Search Committee for the Editor-in-Chief of the Science family of journals, 2015-16; COMPASS Executive Director Search Committee, 2017; Carnegie Institution's Department of Global Ecology, Director, Search Committee, 2016-17; National Geographic Society, Executive Director Search Committee, 2018.

6. International Council for Science (ICSU)

U.S. Delegate to International Council for Scientific Unions XXV General Assembly, Washington, D.C., 1996; U.S. Delegate to First World Conference on Science, Budapest, June-July 1999; U.S. National Academy of Sciences Delegate to International Council for Science, XXVI General Assembly, Cairo, 1999; President Elect 1999-2002; ICSU Committee on Scientific Programs and Review, 2000-2002; ICSU Executive Board 2002-2007; ICSU XXVII General Assembly, as President-Elect and Chair of Forum on Sustainability Science, Rio de Janeiro, 2002; President 2002-2005; Third World Academy of Sciences 20th Anniversary, delivered Opening Remarks, Beijing PRC; Inter-Academy Panel meeting, Mexico City, 2003; UN World Summit on the Information Society, address to plenary session, Geneva, Switzerland, 2003; United Nations, Commission on Sustainable Development, testimony to Ministers, New York, 2004; European Science Foundation, plenary address, Strasbourg, France, 2004; Third World Academy of Sciences 15th General Meeting, Trieste, Italy 2004; Keynote Address for Inauguration Ceremony for ICSU's Regional Office for Africa – the first of four Regional Offices in development worldwide, Pretoria, S.A. 2005; Chair of Nominating Committee, 2005; Chair of Executive Board and Strategic Plan for ICSU 2006-2012; Chair of XXVIII General Assembly of ICSU, Shanghai and Suzhou, China, Oct 2005; Past President, 2005-2007; Keynote Speaker for 75th Anniversary Celebration, Paris, 2006; Chair, Press Conference for Global Launch of ICSU's and World Monitoring Organization's International Polar Year, March 2007.

7. International Committees (apart from ICSU)

Global Biodiversity Assessment, United Nations Environment Programme, Biodiversity and Ecosystem Functioning, section co-coordinator, 1993-1995; United Nations Environment Programme (UNEP), Scientific and Technical Advisory Panel (STAP), Roster of Experts, 1993-2000; Revelation and Environment 95-1995 (an international dialogue among religious leaders, politicians, community leaders, artists and scientists to promote stewardship of the environment), Scientific Steering Committee, 1995-1996; Religion, Science and the Environment II: The Black Sea as a Paradigm, Executive Chair of Scientific and Religious Steering Committee, 1996-1998; Religion, Science and the Environment III: The Danube, Scientific and Religious Steering Committee, 1998-2000; World Economic Forum, Davos, Switzerland, 1998-2001, 2004-5; UNESCO (United Nations Educational, Scientific, and Cultural Organization), Scientific Advisory Board, 1996-1999; OECD Megascience Forum, Biodiversity Working Group, 1998; Royal Swedish Academy of Sciences Beijer Institute, Askö

meetings, Valuing Ecosystem Services, 1998; Evolution and Culture 1999; Inclusive Wealth, 2001; Uncertainty in Science 2002; **Millennium Ecosystem Assessment Project**, Steering Committee, 1998-2000; **Millennium Ecosystem Assessment (MA)**, Convening Lead Author, (Synthesis Chapter for Business and Industry) and Lead Author (Millennium Development Goals chapter), 2002-2005; U.S. delegate to **First World Conference on Science**, Budapest, June-July 1999; **Global Environmental Change/Open Science Conference**, Amsterdam, 2001; **Religion, Science and the Environment IV: The Adriatic**, Honorary Committee, 2001-2003; **NSB Review Team**, Antarctic Research Program, 2000; **Environmental Defense Marine Protected Area visiting committee**, Cuba, 2002; **Science in Kruger National Park**, Synthesis Team, South Africa, 2002; **Religion, Science and the Environment V: The Baltic**, Honorary Committee 2002-2003; **Inter-Academy Panel**, *ex officio* member, 2002-2005; **Religion, Science and the Environment VI: The Caspian Sea**, Honorary Committee, 2004-2005; **Religion, Science and the Environment VII: The Amazon Basin**, Honorary Committee, 2005-2006; **World Commission on Protected Areas**, Marine, Senior Advisory Panel, 2006-2009; Steering Committee for **International Union of Biological Sciences (IUBS)**'s 29th Conference and General Assembly, 2007, Washington DC; **World Life Sciences Forum BioVision**, Science Chair for Environment for March 2007 Forum, 2006-2007; **Third World Academy of Sciences Membership Advisory Committee in Systems Biology**, 2007-2009; **Religion, Science and the Environment VIII: The Arctic**, Honorary Committee, 2007; **International Marine Conservation Congress 2009**, Steering Committee, 2007-2009; **European Project on Ocean Acidification**, Reference User Group Member, 2008; **Arctic TRANSFORM: Transatlantic Policy Options for Supporting Adaptations in the Marine Arctic**, expert working group member, European Commission-funded, EU-US transatlantic dialogue, 2008-9; **Global Economic Dynamics and the Biosphere Program**, Scientific Advisory Board; **Inclusive Wealth Center**, Science Advisory Committee, 2013-present; **World Bank's Global Partnership for Oceans, Blue Ribbon Panel**, 2013-2015; **UN Sustainable Development Solutions Network**, Leadership Council member, advisor to the UN General Assembly and the Secretary General (Ban Ki-moon, then António Guterres), 2013-present; **The Economist – World Ocean Summit 2015, 2016** Advisor; **Soneva Dialogue**, Science Advisor, a dialogue between CEOs of major seafood companies and scientists led by the Stockholm Resilience Center; **SeaBOS (Seafood Businesses for Ocean Stewardship)**, Science Advisor, partnership between CEOs of the 10 largest seafood companies and scientists, led by the Stockholm Resilience Center.

Named Lectures (partial listing)

Duke University, Henry J. Oosting Memorial Lecture, 199; **MIT**, Inaugural Henry Kendall Lecture; **Stony Brook University**, Larry Slobodkin Lecture; **Amherst College**, Geller Lecture 2011; **National Academy of Sciences**, Roger Revelle Lecture, 2011; **University of California at Davis**, Storer Lecture 2011, **Princeton University**, Frank Taplin Lecture 2012, **Rice University**, Rorschach Memorial Lecture, 2013; **Senator George J. Mitchell Lecture**, University of Maine, 2013; **Irving-Scholander Lecture**, University of Alaska, Fairbanks, 2014; **Edwin Way Teale Lecture**, University of Connecticut, 2014; **Aldo Leopold Lecture**, University of Wisconsin, Madison, 2014; **Miguel Alemán Lecture in Ecology and the Environment**, Mexico City, Universidad Nacional Autónoma de México, Fundación Miguel Alemán Valdés; **Prather Lectures**, Harvard University, 2016; **Arthur M. Sackler Lecture**, U.S. National Academy of Sciences, 2016; **Robert C. Barnard Environmental Lecture**, American Association for the Advancement of Sciences, 2016; **Charlie Krebs Lecture**, University of Canberra, 2017; **Lillian K. Stone Memorial Lecture in Environmental Science**, University of Virginia, 2017; **Sapientia et Doctrina Medal Lecture**, Fordham University, 2017; **Nancy Chandler Lecture**, Central Oregon Community College,

Bend, OR; **Inaugural Paul Ehrlich and Hal Mooney Lecture in Ecology and Evolution**, Stanford University, 2018; **Robert H. Woodworth Science Lecture**, Bennington College, VT, 2018.

Select Contributions to Public Service and the Communication of Science – 1995-2008 only

A selection of videos, films, televised or nationally published interviews and articles, not including local and regional media interviews or profiles; not including public lectures. Not updated after 2008.

2008

Testimony to Oregon Senate Environment Committee, invited, on marine reserves, 16 January.

Interview: Common Ground 2: Oregon's Ocean Legacy, film produced by Green Fire Productions on the sustainable use of Oregon's ocean.

Testimony to U.S. House of Representatives - Select Committee on Energy Independence and Global Warming, invited, "Climate and Oceans; Impacts and Implications".

Training: Trained 19 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (1 of 2 weeks).

Interviewed and Quoted in Parade Magazine on ocean health. Chen, Daryl. 2008. "Can Our Oceans Survive?" July 27, page 6.

Interviewed and Quoted in article for Society of Women Engineers Magazine on NAE Grand Challenges Project. Thomas, Charlotte, "Engineering's Grand Challenges – What's Your Pick?" SWE Magazine 54(5): 36-44.

Interviewed and quoted in Scientific American Magazine on Hypoxia research.

Content provided for new layer of Google Earth on Marine Protected Areas (MPA) and for new MPA portal ProtectPlanetOcean.org; based on PISCO's Science of Marine Reserves booklets

Profiled by Associated Press (AP) in their "Newsmakers" series.

Training: Trained 19 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (2 of 2 weeks).

2007

Testimony to Joint Committee on Emergency Preparedness and Ocean Policy, Oregon Legislature on "The Science of Marine Reserves" 6 March.

Interview by Claudia Dreifus for OnEarth Magazine on climate and oceans

Interview for Pink Magazine on changes in oceans

Interviews on climate change and oceans for New Scientist

TV Interview: OPB TV for 1-hour special show on climate change in Oregon; aired 25 October; rebroadcast 30 October.

TV and press interviews (El Mercurio, La Tercera) on climate change and Nobel Peace Prize, Santiago Chile.

2006

Interviews on global warming: Print media: The Astorian, Oregonian; broadcast: KPOJ Radio, KPNW Radio.

Interviews on aquaculture: Print media: Delicious Living Magazine.

Interviews on ecosystem services and the Millennium Ecosystem Assessment.

Interviews on state of the oceans, marine reserves, ocean policy or Oregon's ocean, print: The New Scientist; OSU's Terra magazine; broadcast: OPB's Oregon Territory.

Booklet: PISCO's Coastal Connections, Volume 5, highlighting new scientific findings From the PISCO team.

Radio Broadcast: Oregon Public Broadcasting of Portland City Club talk "Climate Change and its implications for Oregonians."

Training: Trained 18 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (1 of 2 weeks).

Interview on Maintaining the Integrity of Science: Print media: The Scientist, October

Interviews on the low-oxygen zone off the west coast (Print: New York Times, Oregonian, AP, and others; TV: ABC network news; NBC Portland news; Eugene KVAL news. **Radio Interview** on Oregon Territory, Oregon Public Broadcasting, on Oregon's intertidal zone, climate change, and more. The reporter and producer, Christy George received a 2007 Gracie Award from the American Women in Radio and Television for the 20 minute show.

2005

Interview: Common Ground: Oregon's Ocean, 30 min film produced by Green Fire Productions on the state of the ocean ecosystem off Oregon and the merits of establishing a network of marine reserves to protect them.

Interview: National Academies InterViews Project. Distinguished scientists talk about their research, why they became scientists and other aspects of their careers.

<http://www.nationalacademies.org/interviews/people/lubchenco.html>.

Testimony: Oregon State Senate Land Use and Environment Committee concerning recommendations from the OR Governor's Advisory Group on Global Warming. March 25.

Press Briefing: Millennium Ecosystem Assessment, launch of the MA for North American audiences. Washington DC.

Testimony: Portland City Council, on climate change, invited, June 8.

Interviews: Los Angeles Times, New York Times, National Public Radio, etc. on aquaculture, May and June.

Interviews on oceans and climate change: Print: GeoTimes; LA Times; New York Times; National Geographic; Broadcast: KPSA, San Francisco; Premier Radio.

Interview: National Geographic Magazine. Field interviews and photo shoot for June 2006 article on state of the oceans, July 20-23.

Interviews on science and society: national and international press at the International Council for Science's General Assembly, extensive coverage in China, Asia and international press.

Booklet: PISCO's Coastal Connections, Volume 4, highlighting new scientific findings from the PISCO team.

Radio Broadcast: Eugene City Club talk 'The Environment and Human Well-Being', broadcast on Oregon Public Broadcasting Radio.

Forum on Climate Change: organized for community leaders of mid-Willamette Valley by PISCO and COMPASS.

Training: Trained 18 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (1 of 2 weeks).

2004

TV Film: National Geographic's Strange Days on Planet Earth, a 4-part PBS, NGS special feature; partnership between Sea Studios, PBS/National Geographic Society and Vulcan; scientific advisory board; aired on PBS in 2005.

TV Film: Farming the Seas, PBS/Habitat Media Documentary Film, Steve Cowan producer; interviewee.

Oral Presentation: Rotary Club of Corvallis, April; sustainability.

Address to the United Nations Commission on Sustainable Development-12, High Level Ministerial Segment, on the role of science in enhancing sustainable development with particular attention to freshwater, sanitation and human settlements; New York, April.

Written Evaluation of U.S. Commission on Ocean Policy draft report prepared for the Governor of Oregon, from the Marine Scientific Advisory Panel. Environmental Grant-Makers Association, keynote speaker, Kaua'i, Hawai'i.

Training: Trained 20 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (2 weeks).

Booklet: PISCO's Coastal Connections, Volume 3, highlighting new scientific findings from the PISCO team.

2003

Training: Trained 30 Aldo Leopold Leadership Fellows in advanced communication techniques (1 week).

Radio Interview: "Voice of America" on PISCO new research, 30 minutes.

Press Briefing: To 30 national and international reporters at the annual AAAS meeting, on new discoveries about coastal oceans.

Seminar: Norm Thompson Outfitters, on climate change and sustainability.

Seminar: Nike, Inc., on climate change.

TV, Radio and Print Interviews: >30 on Pew Oceans Commission report.

Congressional Briefing: on oceans and U.S. national security, Aspen Institute, Rome.

National Press Conference, Pew Oceans Commission Report to the Nation, National Press Club, Washington DC, televised nationally.

National Press Conference, U.S. Capitol, Members of Congress commenting on the Pew Oceans Commission report.

TV Special: Oregon Field Guide, Oregon Public Broadcasting, features natural history of Oregon's rocky shores.

Oral Presentation: Capitol Hill Oceans Week, Washington DC, for panel on Marine Protected Areas and Marine Reserves.

Booklet: PISCO's Coastal Connections, Volume 2, highlighting new scientific findings from the PISCO team.

Profile: Portland Oregonian, Sunday paper, pages 1, 8, & 9.

Opening Remarks: Third World Academy of Sciences 20th Anniversary Celebration, Beijing, with the President of the People's Republic of China, Hu Jintao.

Interview - NPR Radio: The Steve Scher Show, 1 hour, call-in; Seattle; with William Ruckelshaus on the Pew Oceans Commission and the U.S. National Oceans Commission reports.

Interview: KING TV: Seattle, WA, on Puget Sound as a microcosm of global ocean challenges.

Address to UN World Summit on the Information Society: plenary session, Geneva, on the role of science in the information society.

2002

Oral Presentation: "Environment and Human Health" to the Consultative Group on Biological Diversity, Washington, D.C.

Briefing: "The Science of Marine Protected Areas and Marine Reserves", two days, Monterey, CA, for high-level decision makers in state and federal government agencies, organized by COMPASS.

Roundtable: between NAS Scientists, and White House and Federal Agency Staff on Sustainability Science.

Profile: Jane Lubchenco named "1 of 50 Most Important Women in Science": Discover Magazine, November, Vol. 23, No. 11: 52-57.

Profile: Interview with Jane Lubchenco. "Ocean Advocate" by Monica Michael Willis, Country Living Magazine: July, Vol. 25, No. 7:30.

Popular Article: Interview with Jane Lubchenco. "State of the Planet: A Global Report Card" by Mike Klesius, in National Geographic Magazine: September, pp: 104-115.

Briefing: "The Science of Marine Reserves" for Oregon media. Corvallis, OR.

Popular Article: by Jane Lubchenco. "Lessons from the Land for Protection in the Sea: The Need for a New Ocean Ethic." With Renee Davis-Born and Brooke Simler; Open Spaces-Views from the Northwest, Vol. 5:10-19.

Inaugural Guest Lecture: to News Staff, Oregonian Newspaper, Portland, OR.

Profile: Career World Magazine for students 7-12. 31(3).

Press Conference: As new President of ICSU, results of scientific input into and follow-up actions to World Summit on Sustainability Development.

Oral Presentation: "The Science of Marine Reserves" to Board of Directors of Conservation International, Seattle, WA.

Booklet: PISCO's Coastal Connections, Volume 1, highlighting new scientific findings from the PISCO team.

2001

Public Community Forum: "Marine Biodiversity in Oregon" for Biodiversity Roundtable, Corvallis, OR; speaker.

Briefing: "The Scientific Consensus on Marine Reserves" to the Oregon Policy Advisory Council, Corvallis, OR; speaker.

Film: IMAX film Lost Worlds on Biodiversity; advisory committee.

Film: Empty Oceans, Empty Nets. PBS/Habitat Media, Steve Cowan & Barry Schienberg, producers, televised presentation about ocean fisheries, interviewee.

Training: Trained 20 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (2 weeks).

2000

Briefing: Marine Protected Area and Marine Reserves along the West Coast; two days, for Academic scientists, government agency and nongovernmental organization staff, Monterey, CA.

Training: Trained 19 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (2 weeks).

1999

Profile: in *The Door in the Dream: Conversations with Eminent Women in Science*, Elga Wasserman, Joseph Henry Press, 300 p. (published interview).

Video: Featured in *Generation to Generation: The story of Climate Change and Oregon*, produced by Odyssey Productions for the Oregon Office of Energy, 8 min.

Popular Article: interview of Lubchenco: by Tont, Sargun A. in *GEZI National Geographic Traveler* (Turkish), March 2(18): 20-24.

Training: Trained 20 new Aldo Leopold Leadership Fellows to be effective communicators of their scientific information (2 weeks).

1998

Briefing: Newt Gingrich, Speaker of U.S. House of Representatives, on climate change, 2 ½ hours, Atlanta, GA, 20 April.

Briefing: President William Jefferson Clinton, First Lady Hillary Rodham Clinton and Vice President Al Gore, on ocean issues, 1 hour, Monterey, CA, 12 June.

Video: Interviewed (as Chair of Scientific and Religious Steering Committee) in *Black Sea - Voyage of Healing*, produced by Harvey McKinnon and Peter Davis, Villon Films, Vancouver, BC, 55 min. 1999.

1997-98

Film: *"The Shape of Life"*, 6 hour-long PBS series on the relationship between shape and function in living organisms; Scientific Advisory Committee, Sea Studios Foundation.

1997

Briefing: President Bill Clinton and Vice President Al Gore; on climate change.

Video: of briefing for President William Jefferson Clinton and Vice President Al Gore on climate change, East Room, White House.

Testimony: U.S. House of Representatives Subcommittee on Fisheries Conservation, Wildlife and Oceans; regarding the Year of the Ocean; Oct 30.

28 Radio and television interviews: public and commercial; local, national and international stations; taped, filmed, and call-in, live; 5 minutes to 1 hour; on climate change and environmental issues around the world.

Testimony: U.S. House of Representatives Subcommittee on Fisheries Conservation, Wildlife, and Oceans on National Marine Sanctuaries; May 6.

Profile: *Christian Science Monitor's* occasional series on Outstanding Americans, 15 August.

Briefings: His All Holiness Bartholomew I, Ecumenical Patriarch of the (Christian) Orthodox Church and leaders of other religions; status of the world's oceans, climate change and biodiversity; 10 days, September.

1996

Film: *Keeping the Earth* (produced for the Union of Concerned Scientists by New Wrinkle, Inc., in cooperation with the National Religious Partnership for the Environment); interview of J. Lubchenco in film.

1995

Briefing: for Newt Gingrich, Speaker, U.S House of Representatives, on biodiversity, for 2 hours, in Atlanta, 27 January

Testimony: U. S. Senate Subcommittee on Drinking Water, Fisheries and Wildlife; on reauthorization of the Endangered Species Act, July 13.

Invited Presentations (Recent)

2019: Ecology, Evolution and Conservation Biology Lecture, Oregon State University, 'Balancing Conservation and Sustainable Use: Science and Policy';

2018: Inaugural Paul Ehrlich and Hal Mooney Lecture, Department of Biology, Stanford University; **Protecting Our Ocean Through Marine National Monuments**, The Wilderness Society, San Francisco; **Hope for People and the Ocean: Celebrating 150 yrs at Oregon State University**, Corvallis; **Science in a Post-Truth World, National Association for Research in Science Teaching (NARST)**, Opening Keynote Address, Atlanta, GA; **The Royal Society's 2nd International Lecture**, London; **Practical Academia, Natural Capital Symposium**, Palo Alto, CA; **Science and Hope for the Planet, Natural Capital Symposium**, Palo Alto, CA; **Opening Plenary Association for Southeastern Biologists** annual meeting, Myrtle Beach, SC; **Robert H. Woodworth Science Lecture**, Bennington College, VT; **Science Workshop**, Bennington College, VT; **James R. Mahoney Memorial Lecture**, American Meteorological Society and NOAA, Washington, DC; **The Ocean and Sea Level Rise, St. Louis University Bicentennial Celebration Climate Summit**, St. Louis, MO; **Carnegie Science Lecture**, Carnegie Institution for Science, Washington, D.C.; **Vannevar Bush Award Address to the National Science Board**, Alexandria, VA; **Credit Suisse & Oceano Azul Ocean Impact Roundtable**, Lisbon; **International Marine Conservation Congress, Address to the Congress**, Kuching, Sarawak, Malaysia; **Make4ThePlanet: the MPA Challenge**, pitch to ConservationX makers to solve MPA problems, Kuching, Sarawak, Malaysia; **Global Climate Action Summit**, Climate Ocean Action, San Francisco; **American Museum of Natural History Richard Gilder Graduate School Commencement Address**, New York; **California Academy of Sciences Fellows Medal Speech**, San Francisco; **Our Ocean Conference 5 (OOC5): Accountability for MPA Actions**, Bali; **Aspen Institute The Future of MPAs OOC5 Side Event**, Bali; **MPA Scene Setter – Plenary OOC5 session**, Bali; **The MPA Project – Bali Declaration Side Event**, OOC5, Bali; **San Francisco State University – Romberg Tiburon Campus**, Hope for People and the Ocean, Tiburon, California; **SFSU Estuarine and Ocean Science Center**, The Future of MPAs, Tiburon, California; **Pontifical Academy of Sciences Hope for People and the Ocean**, the Vatican; **NOAA and OCTO/MPA News Webinar**, >500 participants, 'MPA Standards and Guide', virtual.

2017: **Charlie Krebs Lecture**, University of Canberra, Canberra, ACT, Australia; **Blue Growth**, AAAS Symposium, Boston, MA; **Defending Science**, Union of Concerned Sciences Panel at AAAS meetings; **Biodiversity and Extinction**, Pontifical Academy of Sciences and Pontifical Academy of Social Sciences, the Vatican; **State of our Ocean**, launch of Oceano Azul Foundation, Lisbon, Portugal; **Lillian K. Stone Memorial Lecture in Environmental Science**, University of Virginia, Charlottesville, VA; **Sesquicentennial Medal Lecture**, Fordham University, New York City; **Hope for the Ocean**, Smithsonian Institution's Earth Optimism Summit, Washington D.C.; **Science Worth Sharing**, OSU's College of Science event for Corvallis community; **Homage to Ralph Cicerone**, U.S., National Academy of Sciences memorial celebration, Washington, D.C.; **National Academy of Science Public Welfare Medal Address**, National Academy of Sciences, Washington, D.C.; **Science and Society**, 2017 Tyler Prize celebrations, Washington, D.C.; **2017 Pioneer in Science**, World Science Festival, New York; **Administrators reflect on NOAA Today**, Capitol Hill Oceans Week, Washington, D.C.; **Yaquina Bay Economic Foundation**, keynote speaker, Annual Meeting, Newport, OR; **Ecological Society of America (ESA) Special Policy Forum**, Portland, OR; **Scientists Engaging with Society**, ESA Ignite oral session, Portland, OR; **Robert T. Paine's Contributions to Science and Policy**, ESA Symposium, Portland, OR; **Harold A. Mooney's Legacy**, ESA Organized Oral Session, Portland, OR; **Hope for People and the Ocean**, Blue Planet Prize 25th Anniversary Lecture, Tokyo, Japan; **Implementing Sustainable Fisheries in the U.S.** EDF International Fisheries Symposium, Tokyo, Japan; **Science Powering Ocean Conservation**, Jackson Hole Wildlife Film Festival, Jackson Hole, WY; **Malta Declaration on Global Ocean Protection**, 4th Our Ocean Conference, St. Julian's Bay, Malta; **Your Science in a Dynamic World**, Annual Meeting of California Academy of Sciences Fellows, San Francisco, CA; **Hope for People and the Ocean**, Nancy Chandler Lecture, Central Oregon Community College, Bend OR.

2016:

Women in Science Summit, California Academy of Sciences, keynote speaker; **Prather Lectures**, Harvard University, Cambridge, MA; **Ocean Sciences Meeting – AGU, ASLO and The Oceanography Society**, keynote talk, New Orleans, LA; **16th Arthur M. Sackler Lecture**, National Academy of Sciences, Washington D.C.; **Beijing American Center Distinguished Visitor Lecture**, Beijing, People's Republic of China; **Liaoning Normal University public lecture**, Dalian, PRC; **Kasetsart University public lecture**, Bangkok, Thailand; **Economist magazine Roundtable on Financing Fishery Reforms**, Jakarta, Indonesia; **University of Indonesia public lecture**, Jakarta, Indonesia; **University of Diponegoro Distinguished Visitor Lecture**, Semarang, Indonesia; **U.S. Senate Democratic Steering and Outreach Committee Roundtable on the Ocean**, Washington, D.C.; **Pauling Legacy Award Lecture**, Portland, OR; **U.S. National Academy of Sciences annual meeting symposium: The Big Blue**, Washington, D.C.; **UN Foundation's Energy Future Coalition Roundtable on Ocean Acidification**, Washington, D.C.

2015:

IV Congreso del Futuro (IV Congress of the Future), organized by the Commission for the Congress of the Future which consists of members of the Senate of Chile, the Academy of Sciences of Chile and the Rectors of Chilean universities, Santiago de Chile; **Rapa Nui Ocean Working Group**, Hanga Roa, Rapa Nui; **Nuestro Océano**, Pontificia Universidad Católica de Chile, Santiago de Chile; **Women in Science**, Oregon State University, Corvallis; **Corvallis Rotary Club**; **EDF Science Day: Fishing Smarter not Harder**; **Science for Parks, Parks for Science: Celebrating the National Park Service Centennial**, University of California at Berkeley; **Tyler Prize in Environmental Achievement Lecture**, University of Southern California; **The Future of the Ocean, G7 Science Summit**, Berlin; **Michigan Meeting: Academic**

Engagement in Public and Political Discourse, Ann Arbor; **Willamette University** Commencement Address; **The Economist World Ocean Summit** 2015, integrating social, economic and ecological goals for small-scale fisheries; WebEx organized by the **Consultative Group on Biological Diversity** on weather attribution: Would Near-Real Time Attribution Matter?; **Aspen Ideas Festival**: Blue Parks; **Aspen Ideas Festival**: Hope for Fisheries and the Ocean; **South African Academy of Sciences**, Pretoria, South Africa, keynote address; **Youth Matters!** Keynote address, Mauritius; **Oregon Watershed Council, Water and Soil Conservation Districts annual meeting** keynote address; **American Society of Cell Biology**, keynote address at annual meeting; **San Diego State University**; **Society of Marine Mammology**, annual meeting; **Climate One** live interview.

Research Grants, Select: (Extramural; Lubchenco is PI unless otherwise indicated; grant awarded to OSU or OSU Foundation unless otherwise noted; Lubchenco resigned from all grants in 2009 when she became Administrator of NOAA, turning over responsibility to co-PIs; all grants to OSU unless specified otherwise)

- 2018-2021 **NASA**. Securing Sustainable Seas: Near Real-Time Monitoring and Prediction of Global Fishing Fleet Behavior J. Watson, M. Kavanaugh, J. Van Den Hoek, and J. Lubchenco. \$237,373
- 2018-2019 **Oceans 5**, through Rockefeller Philanthropy Advisors. MPAs: Accountability for true progress in ocean protection. \$101,000. Lubchenco, J. and K. Grorud-Colvert
- 2018-2020 **David and Lucile Packard Foundation**. Saving America's Blue Parks (for the National Ocean Protection Coalition, to Resources Legacy Fund as NOPC's fiscal agent). \$750,000. Kenney, A., Lubchenco, J., Conathan, M.
- 2018-2019 **Oceans 5**, through Rockefeller Philanthropy Advisors. Saving America's Blue Parks (for NOPC, to Resources Legacy Fund as NOPC's fiscal agent). \$301,000. Kenney, A., Lubchenco, J., Conathan, M.
- 2017-2018 **Oceans 5**, through Rockefeller Philanthropy Advisors. Leading the Defense of Marine National Monuments (to Heritage Outdoors Project at the Resources Legacy Fund for the National Ocean Protection Coalition). \$50,000. L. Cantral, J. Lubchenco, M. Conathan, A. Kenney
- 2017-2018 **David and Lucile Packard Foundation**. Marine Monument Defense (to Heritage Outdoors Project at Resources Legacy Fund for the National Ocean Protection Coalition). \$100,000. L. Cantral, J. Lubchenco, M. Conathan, A. Kenney
- 2016-2017 **David and Lucile Packard Foundation**. Marine National Monuments and Blue Parks Initiative (to Meridian Institute for the National Ocean Protection Coalition). \$495,224. L. Cantral, J. Lubchenco, M. Conathan
- 2016-2017 **Oceans 5**, through Rockefeller Philanthropy Advisors. A Blueprint for The National Ocean Protection Coalition. \$176,000. L. Cantral, J. Lubchenco, M. Heiman, M. Conathan, A. Kenney
- 2015-2016 **Waitt Foundation**. Blue Parks in California (to Meridian Institute for the National Ocean Protection Coalition). \$100,000. L. Cantral, J. Lubchenco
- 2015-2016 **U.S. State Department, Heising-Simons Foundation, X-Prize Foundation, Schmidt Marine Technology Partners, and The Friends of the Global Ocean Acidification**

Observing Network - a public private partnership built around Lubchenco's role as the U.S. Science Envoy for the Ocean. A grant from U.S. Secretary of State John Kerry's Office of Global Partnership through the Leveraging, Engaging, and Accelerating through Partnerships (LEAP) program leveraged private matches. Project title: ApHRICA (ocean pH research Integration and Collaboration in Africa). PI: Kelly Kryc (State Dept staff for Lubchenco), co-PI Kenli Kim (Bureau of Oceans and International Environmental and Scientific Affairs); \$100,000 from State Department; \$400,000 from Partners: Heising-Simons Foundation, X-Prize Foundation, Schmidt Marine Technology Partners, and The Friends of the Global Ocean Acidification Observing Network. This partnership will enable the first Ocean Acidification monitoring in the sw Indian Ocean, off coasts of Africa, enhance capacity-building workshops, facilitate connections to global efforts, and explore a business case for new OA technologies. Total: \$500,000.

- 2015-2017 **The David and Lucile Packard Foundation.** "Assistance for the U.S. Science Envoy for the Ocean," Co-PI: J. Sullivan. \$49,074.
- 2015-2016 **The Educational Foundation of America.** "Closing the gaps in Oregon's ocean acidification seascape: new partnerships for science-informed decision making," PI: F. Chan; co-PIs K. Milligan, J. Barth and J. Lubchenco. \$160,000.
- 2008-2011 **The Gordon and Betty Moore Foundation.** "Microbial diversity and activity in the seasonal hypoxic coastal waters off Central Chile and Oregon: A comparative study," PI: R. Letelier, co-PIs: S. Giovannoni, O. Ulloa, J. Barth, F. Chan, C. Lange, L.Farias, A. Mix, S. Pantoja, O. Pizzaro. \$5,000,211; *JL recused from all responsibilities as of March 2009.*
- 2008-2010 **The Gordon and Betty Moore Foundation.** "Science for Ecosystem-Based Management: COMPASS," Co-PI: Brooke Simler. \$710,000; *JL recused from all responsibilities as of March 2009.*
- 2008-2010 **The David and Lucile Packard Foundation.** "Communication Partnership for Science and the Sea (COMPASS)," PI: Brooke Simler. \$2,000,000; *JL recused from all responsibilities as of March 2009.*
- 2008-2009 **The David and Lucile Packard Foundation.** "Effectively communicating the science of marine reserves to a global audience," Co-PI: K. Grorud-Colvert, S. Gaines, and S. Airame. \$100,000.
- 2008-2009 **The David and Lucile Packard Foundation.** "PISCO Organizational Effectiveness Project: Securing the future for an integrated large marine ecosystem research program." Co-PIs: K. Milligan and S. Gaines. \$150,000.
- 2008 **The United Nations Foundation.** "Workshop: Global Changes in Hypoxia and Anoxia in Eastern Boundary Current Large Marine Ecosystems," PI: P. Bernal. \$36,100.
- 2008 **The Marisla Foundation.** "Communication Partnership for Science and the Sea (COMPASS)," PI: Brooke Simler. \$75,000.
- 2007-2010 **Andrew W. Mellon Foundation.** PI: B. Menge. "Collaborative Research: Mechanisms Underlying Patterns of Recruitment on an Interhemispheric Scale," \$200,000; *JL recused from all responsibilities as of March 2009.*
- 2007-2009 **The Resource Legacy Fund Foundation.** "Communicating Marine Conservation Science along the West Coast of the U.S.," PI: Brooke Simler. \$512,990.
- 2007 **Kingfisher Foundation.** "Consequences of New Low Zones of Low Oxygen along the Oregon Coast," Co-PIs F. Chan and J. Barth, \$39,059.

- 2007 **Flora Family Foundation.** "Closing the Gap between Science and Action on Climate Change," PI: Steve Pacala. \$125,000.
- 2006 **Hanlon Venture Fund,** PI: F. Chan; co-PIs: B Menge, J. Barth. \$9,600.
- 2006-2008 **David and Lucile Packard Foundation.** "New Advances in the Science of Marine Reserves, Second Edition of "Science of Marine Reserves" Booklet. Co-PIs: Steven Gaines, Satie Airame, Brooke Simler. \$249,946.
- 2006-2008 **Meyer Memorial Trust.** "Communicating Marine Conservation Science in Oregon," PI: Brooke Simler. \$90,825.
- 2006-2008 **The Resource Legacy Fund Foundation.** "Communicating Marine Conservation Science along the West Coast of the U.S.," PI: Brooke Simler. \$393,010.
- 2006-2008 **The Marisla Foundation.** "Communication Partnership for Science and the Sea (COMPASS)," Co-PI: Brooke Simler. \$60,000.
- 2006-2008 **Gordon and Betty Moore Foundation.** "Science for Ecosystem-Based Management: COMPASS," Co-PI: Brooke Simler. \$350,022.
- 2006-2008 **David and Lucile Packard Foundation.** "Communication Partnership for Science and the Sea (COMPASS)," Co-PI: Brooke Simler. \$2,159,960.
- 2005-2007 **David and Lucile Packard Foundation.** "Communicating the Science of Marine Reserves to Latin American Audiences." Co-PIs: Sally Hacker, Brooke Simler. \$249,969.
- 2005-2006 **Andrew W. Mellon Foundation.** "The Marine Ecosystems Dynamics Consortium: Integration of the science, training, and outreach missions across the consortium," PI: B. Menge, Co-PIs: S. Gaines, S. Navarrete, J.C. Castilla, D. Schiel, G. Branch. \$76,000.
- 2004-2007 **Andrew W. Mellon Foundation.** "Dynamics of Nearshore Marine Ecosystems: Complementary Studies on Temperate Shores," PI: Dave Schiel; co-PI: B. Menge. \$330,000.
- 2005-2009 **Gordon and Betty Moore Foundation.** PISCO (see above). \$13,543,700.
- 2005-2009 **David and Lucile Packard Foundation.** "Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO)": 2005-2009. Co-PIs: B. Menge, J. Barth, P. Raimondi, M. Carr, M. McManus, G. Somero, M. Denny, S. Palumbi, S. Gaines, B. Warner, G. Hofmann, L. Washburn. \$11,000,000.
- 2004-2006 **David and Lucile Packard Foundation** "Communication Partnership for Science and the Sea (COMPASS)": 2004-2005; PI: Chuck Savitt; co-PIs V. Spruill, C. Harrold. \$2,000,000.
- 2004-2005 **David and Lucile Packard Foundation.** A Symposium on "Managing for Resilience: An Integrated Approach to Coastal Marine Science and Conservation"; PI: A.O.D. Willows, co-PIs: K. McLeod, M.P. Morse; \$45,000.
- 2004-2005 **David and Lucile Packard Foundation:** "PISCO: Realizing the Potential of a Unique Model to Understand Coastal Marine Ecosystems," Co-PIs: B. Menge, J. Barth, M. Carr, P. Raimondi, M. McManus, G. Somero, M. Denny, S. Palumbi, S. Gaines, B. Warner, L. Washburn, G. Hofmann. \$3,920,205.
- 2003-2004 **Andrew W. Mellon Foundation** "Researching Sites in South Africa: Travel Grant," Co-PI: B. Menge. \$25,000.
- 2003-2006 **Andrew W. Mellon Foundation** "Closing the Loop: Linking Pelagic and Benthic Communities Through larval Production and Transport Mechanisms," PI: B. Menge. \$330,000.

- 2002-2008 **David and Lucile Packard Foundation** "The Aldo Leopold Leadership Program" Co-PIs: C. Robinson and D. Wall. \$1,500,000.
- 2002-2003 **David and Lucile Packard Foundation** "Communicating the Science of Marine Reserves," Co-PIs B. Simler, S. Airame, R. Warner, and S. Gaines. \$246,428.
- 2001-2002 **David and Lucile Packard Foundation** "Evaluating The Aldo Leopold Leadership Program," \$63,388.
- 2000-2004 **David and Lucile Packard Foundation** "Augmentation for PISCO," Co-PIs: B. Menge, S.D. Gaines, R. Warner, G. Somero, M. Denny, P. Raimondi, M. Carr. \$2,285,098.
- 2000-2003 **Andrew W. Mellon Foundation** "Structuring processes in temperate marine nearshore reefs: parallel studies in New Zealand and Oregon" Co-PIs: D. Schiel, B.A. Menge, \$329,000.
- 2000-2003 **Andrew W. Mellon Foundation** "The Mellon Marine Ecosystem Dynamics Consortium: An Infrastructure Plan to Provide Inter-hemispheric Links among Research Groups," Co-PI with B. A. Menge, \$220,000.
- 1999-2004 **David and Lucile Packard Foundation** "COMPASS: The Communication Partnership for Science and the Sea," PI: Chuck Savitt (Island Press); co-PIs: Vikki Spruill (SeaWeb), Chris Harrold (Monterey Bay Aquarium). \$2,136,425.
- 1999-2004 **David and Lucile Packard Foundation** "Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO): A Long-Term Ecological Consortium," Co-PIs: B. Menge, S.D. Gaines, R. Warner, G. Somero, M. Denny, P. Raimondi, M. Carr. \$17,711,742.
- 1999-2002 **Environmental Defense** "Siting Marine Reserves in Temperate Coastal Ecosystems," Co-PIs: H. Leslie, B. Menge; in support of research of Heather Leslie.
- 1998-2003 **David and Lucile Packard Foundation** "The Aldo Leopold Leadership Program: Leadership and Communication Training For Science-Advocates," \$1,437,940.
- 1998-2001 **Andrew W. Mellon Foundation** "Nearshore Marine Ecosystem Dynamics," co-PI: B.A. Menge. \$380,000.
- 1998-2013 **Robert and Betty Lundeen Marine Biology Fund** "Frontiers in Marine Ecology," \$750,000.
- 1997-2001 **National Science Foundation, National Center for Ecological Analysis and Synthesis**, "Developing the theoretical basis for marine protected areas," \$120,000.
- 1997-1998 **David and Lucile Packard Foundation** "The Spring Green Project: Training for Science-Advocates," \$110,829.
- 1996-1997 **Andrew W. Mellon Foundation** "Marine Ecosystem Dynamics: Planning for Comparisons of North and South America," \$19,900.
- 1995-1998 **Andrew W. Mellon Foundation** "Rocky Intertidal Communities: Integration of Pattern-Process Linkages Across Expanding Scales," Co-PI: B.A. Menge. \$320,000.
- 1994-1995 **Andrew W. Mellon Foundation** "The Sustainable Biosphere Project, Amazon Basin Case Study," P.G. Risser, Co-PI. \$180,000.
- 1994-1995 **National Science Foundation**, Supplement to SBI grant, Co-PI: P.G. Risser. \$140,000.
- 1993-1997 **John D. and Catherine T. MacArthur Foundation Fellowship**, \$280,000.
- 1993-1995 **National Science Foundation** "Inter-American Institute Program for Temperate Terrestrial Ecology: Workshops to Develop Scientific and Implementation Plans," PI: G. Bradshaw, co-PIs: T. Strub, W. Winner. \$101,350.
- 1993-1995 **National Science Foundation**, Supplement to SBI grant, Co-PI: P.G. Risser. \$60,000.

- 1992-1996 **Andrew W. Mellon Foundation** "Rocky Intertidal Communities: Opportunities for Linking Ecological Studies at Different Scales," Co-PI: B.A. Menge. \$300,000.
- 1992-1995 **Pew Charitable Trusts, Scholar in Conservation and the Environment Program** "Marine Conservation Biology and the Sustainable Biosphere Initiative: National and International Challenges," \$150,000.
- 1991-1993 **National Science Foundation** "The Sustainable Biosphere Initiative Project," Co-PI: P.G. Risser. \$554,600.
- 1990-1991 **National Science Foundation** "The Sustainable Biosphere Initiative: Research Agenda for the Nineties Workshop," \$35,025.
- 1989-1991 **Andrew W. Mellon Foundation** "A Strategic Plan for Ecology for the 1990's," \$125,000.
- 1987 **National Academy of Sciences**, Visiting Investigator Program, People's Republic of China, "Rocky intertidal community structure and Marine Reserves along temperate Chinese shores."
- 1986-1988 **National Science Foundation** "Bromophenols in a temperate red alga: variability and anti-herbivore effects." Co-PI: D.J. Carlson. \$209,910.
- 1980-1985 **National Science Foundation** "Heterogeneity and Community Organization in a temperate and tropical rocky intertidal community." Co-PI: B.A. Menge. \$488,000.
- 1978-1980 **National Science Foundation** "Experimental studies of community organization in a tropical rocky intertidal community." Co-PI: B.A. Menge. \$196,000.
- 1976-1978 **National Science Foundation** "Experimental studies of community organization in tropical and temperate rocky intertidal regions," Co-PI: B.A. Menge. \$126,000.
- 1973-1975 **National Science Foundation** Doctoral Dissertation Grant "The Community Role of Intertidal Herbivorous Gastropods," \$4,000.

Principal Publications¹: (Does not include abstracts or technical reports. Professional name changed from Menge to Lubchenco in 1977. Dr. Lubchenco's philosophy has been to encourage her graduate students to publish their thesis research papers independently, as opposed to co-authoring them with her. The earlier publications of her students are listed in a subsequent section.)

Categories of publications:

PR: Peer-reviewed publication.

Δ: Book review, commentary, editorial, opinion or obituary.

±: National Academy of Sciences, National Research Council, National Science Board, or international scientific assessment reports for which Lubchenco was a primary author.

⌘: U.S. Congressional or State of Oregon testimony, U.S. Presidential briefing, or *Amicus Curiae* for the U.S. Supreme Court or State of Oregon Supreme Court.

- 1 PR 1974 **Menge, J. Lubchenco**. Prey selection and foraging period of the predaceous rocky intertidal snail, *Acanthina punctulata*. *Oecologia*: 17: 293-316.
- 2 PR 1974 **Menge, J. Lubchenco** and B.A. Menge. Role of resource allocation, aggression and spatial heterogeneity in coexistence of two competing starfish. *Ecological Monographs*: 44:189-209.
- 3 PR 1978 **Lubchenco, J.** and B.A. Menge. Community development and persistence in a low rocky intertidal zone. *Ecological Monographs*: 48: 67-94. **Mercer Award, Ecological Society of America, 1979; Science Citation Classic Paper, ISI. Reprinted in Readings in Marine Ecology, 1986, ed. James W. Nybakken**
- 4 PR 1978 **Lubchenco, J.** Plant species diversity in a marine intertidal community: importance of herbivore food preference and algal competitive abilities. *American Naturalist*: 112: 23-39. **Science Citation Classic Paper, ISI. Reprinted in Readings in Marine Ecology, 1986, ed. James W. Nybakken**
- 5 PR 1979 **Lubchenco, J.** Consumer terms and concepts. *American Naturalist*: 113: 315-317.
- 6 PR 1979 **Lubchenco, J.** Causes of zonation patterns on rocky intertidal shores. pp. 219-221. in: "Symposium on regularities of distribution and ecology of coastal marine biocoenoses." *Proceedings of the Soviet Academy of Science*.
- 7 PR 1980 **Lubchenco, J.** Algal zonation in the New England rocky intertidal community: experimental analysis. *Ecology*: 61: 333-344.
- 8 PR 1980 **Lubchenco, J.** and J. Cubitt. Heteromorphic life histories of certain marine algae as adaptations to variations in herbivory. *Ecology*: 61: 676-681.
- 9 PR 1981 **Lubchenco, J.** and S.D. Gaines. A unified approach to marine plant-herbivore interactions. I. Populations and Communities. *Annual Review of Ecology and Systematics*: 12: 405-437. **Science Citation Classic Paper, ISI.**
- 10 PR 1981 Menge, B.A. and **J. Lubchenco**. Community organization in temperate and tropical rocky intertidal habitats: prey refuges in relation to consumer pressure gradients. *Ecological Monographs*: 51(4): 429-450.
- 11 PR 1982 Gaines, S.D. and **J. Lubchenco**. A unified approach to marine plant-herbivore interactions II. Biogeographic Patterns. *Annual Review of Ecology and Systematics*: 13: 111-138.
- 12 PR 1982 **Lubchenco, J.** Effects of grazers and algal competitors on fucoid colonization in tide pools. *Journal of Phycology*: 18: 544-550.
- 13 PR 1983 **Lubchenco, J.** *Littorina* and *Fucus*: Effects of herbivores, substratum heterogeneity and plant escapes during succession. *Ecology*: 64: 1116-1123.
- 14 PR 1984 **Lubchenco, J.,** B.A. Menge, S.D. Garrity, P.J. Lubchenco, L.R. Ashkenas, S.D. Gaines, R. Emler, J. Lucas and S. Strauss. Structure, persistence and role of consumers in a tropical rocky intertidal community (Taboguilla Island, Bay of Panama). *Journal of Experimental Marine Biology and Ecology*: 78: 23-73.
- 15 PR 1985 Menge, B.A., **J. Lubchenco** and L.R. Ashkenas. Diversity, heterogeneity and consumer pressure in a tropical rocky intertidal community. *Oecologia*: 65: 394-405.

- 16 PR 1986 **Lubchenco, J.** Relative importance of competition vs. predation: early seaweed colonization in New England. *In*: J.M. Diamond and T.J. Case (eds.) ***Community Ecology***: pp. 537-555. Harper and Row, New York.
- 17 PR 1986 Menge, B.A., **J. Lubchenco**, L.R. Ashkenas and F. Ramsey. Experimental separation of effects of consumers on sessile prey in the low zone of a rocky shore in the Bay of Panama: direct and indirect consequences of food web complexity. ***Journal of Experimental Marine Biology and Ecology***: 100:225-269.
- 18 PR 1986 Menge, B.A., **J. Lubchenco**, S.D. Gaines and L.R. Ashkenas. A test of the Menge-Sutherland model of community organization in a tropical rocky intertidal food web. ***Oecologia***: 71: 75-89.
- 19 Δ 1986 **Lubchenco, J.** Rocky shore ecology. (Review of Moore P.G. and R. Seed (eds.) *The Ecology of Rocky Coasts: essays presented to J.R. Lewis.*) ***Ecology***: 67: 1699.
- 20 PΔ 1988 Risser, P.G., **J. Lubchenco**, and R.B. Root. The research support liaison committee in Ecology, Evolution and Systematics. ***Bulletin of the Ecological Society of America***: 69: 6-10.
- 21 PR 1989 Carlson, D.J., **J. Lubchenco**, M.A. Sparrow, and C.D. Trowbridge. Fine-scale variability of lanosol and its disulfate ester in the temperate red alga *Neorhodomela larix*. ***Journal of Chemical Ecology***: 15: 1321-1333.
- 22 PR 1990 Olson, A.M. and **J. Lubchenco**. Competition in seaweeds: Linking plant traits to competitive outcomes. ***Journal of Phycology***: 26: 1-6.
- 23 Δ 1990 Mooney, H.A. and **J. Lubchenco**. Looking Ahead. ***Bulletin of the Ecological Society of America***: 71: 4-5.
- 24 PR 1991 **Lubchenco, J.** and L. A. Real. Manipulative Experiments as Tests of Ecological Theory. Pages 715-733. *In*: L. Real and J. Brown (eds.) ***Foundations of Ecology***, University of Chicago Press.
- 25 PR 1991 **Lubchenco, J.**, A.M. Olson, L.B. Brubaker, S.R. Carpenter, M.M. Holland, S.P. Hubbell, S.A. Levin, J.A. MacMahon, P.A. Matson, J.M. Melillo, H.A. Mooney, C.H. Peterson, H.R. Pulliam, L.A. Real, P.J. Regal, P.G. Risser. 1991. The Sustainable Biosphere Initiative: An Ecological Research Agenda. ***Ecology***: 72(2): 371-412. **Science Citation Classic Paper, ISI.**
- 26 PR 1991 Risser, P.G., **J. Lubchenco**, and S.A. Levin. Biological Research Priorities: A Sustainable Biosphere. ***BioScience***: 41: 625-627.
Δ
- 27 PR 1991 Huntley, B.J., E. Ezcurra, E.R. Fuentes, K. Fujii, P.J. Grubb, W. Haber, J.R.E. Harger, M.M. Holland, S.A. Levin, **J. Lubchenco**, H.A. Mooney, V. Neronov, I. Noble, H.R. Pulliam, P.S. Ramakrishnan, P.G. Risser, O. Sala, J. Sarukhan, and W.G. Sombroek. A Sustainable Biosphere: the Global Imperative: The International Sustainable Biosphere Initiative. ***Ecology International***: 20: 1-14.
- 28 Δ 1992 Risser, P.G. and **J. Lubchenco**. The Role of Science in Management of Large Watersheds. Pages 119-126. *In*: P.W. Adams and W.A. Atkinson (eds.) ***Watershed Resources: Balancing Environmental, Social, Political and Economic Factors in Large Basins***. College of Forestry, Oregon State University.

- 29 PR 1992 National Academy of Sciences. ***Policy Implications of Greenhouse Warming: Mitigation, Adaptation and the Science Base***. National Academy Press, Washington DC, 918 pages. (Lubchenco served on the Adaptation Panel but dissented from that Panel's report, as noted on pages 504 and 659.)
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A Sampling of Profiles of Lubchenco

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- 2002 Encyclopaedia Britannica – Year in Review, p 81 (between Marvel cartoonist Stan Lee and President Lula of Brazil); entry by Tom Michael.
- 2015 Paul Gabrielson. QnAs with Jane Lubchenco in PNAS
www.pnas.org/cgi/doi/10.1073/pnas.1508810112
- 2016 Bonnie Tsui. ‘The Bionic Woman of Good Science: How an ecologist of tidal communities became a global diplomat for the ocean’. *The Pacific Standard* magazine May/June
<https://psmag.com/news/the-bionic-woman-of-good-science>

Teaching and Advising at OSU (until 2009):

Courses:

Ecology, Marine Biology, Marine Conservation Biology, Marine Ecology, Community Ecology, Environmental Controversies, Invertebrate Zoology, Human Ecology, Marine Reserves, Marine Conservation Science and Policy and various graduate seminars. Guest lectures in various OSU courses, for example in 2003-2007: FOR-365, GEO-308, Bi-450/451; 2019 IB 599 Making Your Science Matter.

- 2013-17 Z 507: Science and Policy
- 2018 Z 507: Evaluating Marine Protected Areas (1 credit)
 Z 599: Science and Policy (2 credits)
- 2019 IB 599 Science and Policy (2 credits)

Degrees Awarded to Students (advised jointly with B.A. Menge) (29 Ph.D.'s; 10 MS.s awarded); chronological. (Name, degree, date, current position):

William R. Rice, Ph.D. 1980, Professor; University of California at Santa Barbara; **Dianna K. Padilla**, M.S. 1981; Ph.D., University of Alberta; Professor, State University of New York at Stony Brook; **Kenneth R. Yates**, M.S. 1982; Ph.D., 1989; Vice President of Husbandry and Life Support Systems, Long Beach Aquarium of the Pacific; Head of Life Sciences Department, Downtown Denver Aquarium; **Teresa Turner**, Ph.D. 1982; Professor, College of Virgin Islands, St. Thomas, V.I.; **Steven D. Gaines**, Ph.D. 1982; Professor, Dean, Bren School for the Environment, U.C. Santa Barbara; National Graduate Advisor of the Year, 2009; **Carla M. D'Antonio**, M.S. 1982; Ph.D., U.C. Santa Barbara; Professor, U.C. Berkeley; Professor, U.C. Santa Barbara; **Christopher P. Marsh**, Ph.D. 1984; Director, Spring Island Trust, South Carolina; **Alice F. Brown**, M.S. 1985; Ph.D. Brown University; local activist; **Annette M. Olson**, M.S. 1985; Ph.D., 1992; Independent scientist; **Lani West**, Ph.D. 1986; Research Associate, University of Queensland; **Terence M. Farrell**, Ph.D.; 1987, Professor, Stetson University; **Cynthia D. Trowbridge**, Ph.D., 1989; Research Associate, Hatfield Marine Science Center, OSU; **Denise Idler**, M.S. 1992; Ph.D. University of Medicine and Dentistry of New Jersey, 2002, voluntarily unemployed; **Peter van Tamelen**, Ph.D., 1992; private consultant; **Deborah R. Brosnan**, Ph.D., 1994; Co-Founder and President, Sustainable Ecosystems Institute,

Lake Oswego, Oregon, now private consultant; **Carol A. Blanchette**, Ph.D., 1994; Associate Professor, Research, U.C. Santa Barbara; **Sergio A. Navarrete**, Ph.D., 1994; Professor, Catholic University, Santiago, Chile, and Director, Coastal Station of Marine Investigations (ECIM), Universidad Catolica, Las Cruces, Chile; **Deirdre Roberts**, M.S., 1995; middle school science teacher, Salinas, CA; **Eric Berlow**, Ph.D., 1995; Director, Sierra Nevada Research Institute, Wawona Field Station, Yosemite National Park (UC Merced); TED Global Fellow ; **Gary Allison**, Ph.D., 1997; Assistant Professor-Research , Ohio State University; **Karina Nielsen**, Ph.D., 1998; Director and Professor of Biology, Romberg Tiburon Center for Environmental Studies, San Francisco State University; **Eric Sanford**, Ph.D., 1999; Professor, University of California at Davis; **Jen Burnaford**, Ph.D., 2001; Assistant Professor, California State University at Fullerton; **Tess Freidenburg**, Ph.D. 2002; Senior Scientist, Marine Protected Areas Monitoring Enterprises, Oakland, CA.; **Matt Bracken**, Ph.D., 2003; Associate Professor, University of California at Irvine; **Heather Leslie**, Ph.D. 2004; Assistant Professor, Brown University; now Associate Professor, University of Maine and Director, University of Maine Darling Marine Center; **Roly Russell**, Ph. D. 2005; Independent Scholar; **Maria Kavanaugh**, M.S. 2005; PhD, 2012, OSU; Postdoctoral Fellow, Woods Hole Oceanographic Institution; **John Howieson**, M.S. 2006, retired; **Anne Guerry**, Ph.D., 2006; Lead Scientist, the Natural Capital Project's Marine Conservation Initiative, Stanford University, Woods Institute; **Elise Granek**, PhD., 2006, Associate Professor, Portland State University; **Chris Krenz**, Ph.D., 2007, Staff Scientist, Oceana; **Laura Petes**, Ph.D., 2007, Ecosystem Science Advisor, Climate Program Office, NOAA; Senior Policy Advisor for Climate Adaptation and Ecosystems, White House Office of Science and Technology Policy; A. **Paulina Guarderas**, M.S., 2007, Instituto NAZCA de Investigaciones Marinas (a marine NGO), Ecuador; **Luis Vinueza**, Ph.D. 2009, Assistant Professor, Universidad de Ecuador; **Dafne Erkes-Medrano**, Ph.D., 2011, Research Associate, British Antarctic Survey, Cambridge, UK; **Joe Tyburczy**, PhD. 2011, PISCO Policy Coordinator, Oregon State University; Coastal Specialist, California Sea Grant.

Graduate Students initially co-advised with B.A. Menge; then advised solely by B.A. Menge when Lubchenco was at NOAA:

Alison Iles (NSERC Fellow); Ph.D. 2012; Sarah Close, (NSF Fellow), Ph.D. 2013; Jeremy Rose, (NSF Fellow).

Graduate Student Science-Policy Mentees.

2014 Allison K. Barner, Elizabeth Cerny-Chipman

2015 Allison K. Barner, Elizabeth Cerny-Chipman

2016 Vanessa Constant, Jenna Sullivan

2017 Vanessa Constant, Jenna Sullivan

2018 Silke Bachhuber, Vanessa Constant, Heather Fulton-Bennett, Jenna Sullivan

Graduate Student Fellowships, Honors, Awards 1978-2009.

| Name | Yrs of award | NSF | NSERC | Fulbright | Ford Fdn | AAUW | EPA | Markham | other |
|----------|--------------|------|-------|-----------|----------|------|-----|---------|-------|
| S Gaines | 78-81 | DDIG | | | | | | | |
| T Turner | 78-81 | DDIG | | | | | | | |
| C Marsh | 79-82 | DDIG | | | | | | | |

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|------------------|-------|-------------------|----------|-----|-----|------------|------|---------|---|
| S Navarrete | 88-90 | | | GRF | | | | | |
| C Blanchette | 91-93 | | | | | | | Res Awd | Holt Mar Edu |
| E Berlow | 92-94 | | | | | | | Res Awd | Holt Mar Edu |
| G Allison | 92-95 | GRF | | | | | | | |
| K Nielsen | 93-01 | Intl Postdoc | | | | Diss Fell. | | | Univ Club |
| E Sanford | 93-98 | GRF | | | | | | Res Awd | Nat Wildl Fed; Lerner-Gray Fund |
| J Burnaford | 95-04 | GRF, Intl Postdoc | | | | Diss Fell | | | |
| T Freidenburg | 96-02 | GRF | | | GRF | | | | |
| M Bracken | 97-02 | GRF | | | | | | Res Awd | |
| H Leslie | 98-03 | GRF | | | | | | Res Awd | Univ Club; EDF |
| R Russell | 99-05 | | GRF | GRF | | | | Res Awd | |
| C Krenz | 01-02 | | | | | | | Res Awd | |
| A Guerry | 00-06 | GRF | | | | | | | Univ Club |
| E Granek | 02-06 | K-12 GRF, GRF | | GRF | | | | | Budweiser; Aquaculture Grant |
| L Petes | 03-07 | GRF | | | | | | | Univ Club |
| L Vinueza | 03-09 | | | GRF | | | | | Scott Neotr RF, Rufford Sm Grt, Lindbergh Fell, Bayley Fell |
| D Eerkes-Medrano | 05-08 | | GRF, GRF | | | | | Res Awd | |
| J Tyburczy | 06-09 | | | | | | STAR | | |
| A Iles | 09-12 | | GRF | | | | | | |
| J Rose | 09-12 | GRF | | | | | | | |
| S Close | 09-12 | GRF | | | | | | | |

Former Postdoctoral Students (Advised jointly with Bruce Menge; 15)

1. **Elizabeth Dahlhoff**, 1993-1995; Ph.D. Scripps Inst. of Oceanography; Mellon Post Doc; Professor University of Santa Clara; **Cynthia Trowbridge**, 1993-9; Ph.D., OSU; Research Faculty, Hatfield Marine Science Center, OSU; **Sergio Navarrete**, 1994-5; Ph.D. OSU; Associate Professor and Director of Marine Laboratory, Catholic University, Santiago, Chile; **Eric Berlow**, 1995-96, Ph. D., OSU; Director, Wawona Field Station, University of California Merced; **Patricia Halpin**, 1995-

2001, Ph.D., Instructor, University of California at Los Angeles; **Gary Allison**, 1997-98, Ph.D. OSU; Ohio State University Research Faculty; **Brian Grantham**, 1997-2003, Ph.D., Stanford University; Coordinator, Aquatic Research-AQUATIC Research and Development Section, Natural Resources, Government of Ontario, Peterborough, Ontario, Canada; **George Leonard**, 1998-1999; Ph. D., Brown University; Director, Aquaculture Program, Ocean Conservancy; **Carl Schoch**, Ph.D., Oregon State University; Affiliate Associate Research Professor, Alaska Ocean Observing System, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks; **Karina Nielsen**, 2000-2003; Ph. D., OSU; Associate Professor, Sonoma State University; **Francis Chan**, 2001-2004, Ph.D., Cornell University; Assistant Professor, Senior Research, OSU; **Michael Webster**, 2001-2004; Ph. D., OSU; Executive Director, The Coral Reef Alliance, Oakland, CA; **Tess Friedenborg**, 2002-2004; Ph. D., Senior Scientist, Marine Protected Areas Monitoring Enterprise, California Ocean Science Trust, Oakland CA; **Kimberly Heiman**, 2006-2008; Ph.D., Stanford; Instructor, Muhlenberg College, 2008-present; **Gil Rilov**, 2005-2007; PhD. Tel Aviv University; Senior Scientist, Department of Biology and Biotechnology, National Institute of Oceanography, Israel Oceanographic and Limnological Research, Haifa, Israel; **Karen McLeod** 2003-2007; PhD. OSU; Director of Science, COMPASS; **Sarah Dudas**, 2005-2009; Ph.D.; Canada Research Chair, University of Vancouver Island, Nanaimo, BC; **Kirsten Grorud-Colvert** 2006-2010; Ph.D. University of Miami; Schmidt Research Vessel Initiative Postdoctoral Fellow, 2010-2012; **Liz Cerny-Chipman** 2010-2016, Ph.D. OSU; Postdoctoral Scholar 2017-2018; Fish Policy Analyst, Ocean Conservancy.

Co-Sponsor for Assistant Professor, Senior Research positions (joint with B.A. Menge):

Gary Allison (2000-2001)
 Brian Grantham (2001-2003)
 Francis Chan (2004-2009; 2013-present)
 Allen Milligan (2004-2006)
 Gil Rilov (2007-2008)
 Kristen Milligan (2009-2009; 2013-present)
 Kirsten Grorud-Colvert (2014-present)

1998-2008 Undergraduate Students working on research projects or theses

(Most advised jointly with B.A. Menge):

1998-2003 (Undergraduates; all from OSU unless otherwise indicated)

Erin Breck, Melissa Foley, Sherine Bridges (McNair Fellow), Jamie Furler, April Cameron (International Degree), Maria Kavanaugh, Molly Dutton, Arianna Sutton (Honors College and International Degree), Janette Ehlig, Sheri Etchemendy, Seth White; Thom Young.

2005 (Undergraduates; all from OSU unless otherwise indicated)

Jean Ahrens (Colorado College), Leslie Armitage, Katie Ashford (University of Wales, Bangor), Stephanie Busch, Ryan Craig, Robert Cressman, Ryan Driscoll (University of Miami), Ester Eder, Lindsay Fitzgerald, Alyssa Harris, Wes Haynes, Jesse Hilderbrand, Ryan Hilgris (Michigan State), Susan Holmes (UC Santa Cruz) Kayleigh Huhes (University of Wales, Bangor), Ibrahim Hussain, Jammie Kohen (Warren Wilson College), Kristen Lycett, Sarah Messinger, Gayle Murphy, Stephanie Orlaineta, Ashley Rogers (Reed College), Josh Schuening, Julia Sobolik, Jordan Stewart, Jason Thomas, Nicole Yierney, Frances Weeks.

2006 (Undergraduates; all from OSU unless otherwise indicated)

Ryan Hilgris (Michigan State), Ben Campbell, Kat Krieg, Travis Lewis, Marissa Matsler, Jenn Noell, Josh Schuening, Ryan Driscoll (University of Miami), Ester Elder, Lindsey Fitzgerald, Gayle Murphy.

2007 (Undergraduates; all from OSU unless otherwise indicated)

Trista Baxter, Ryan Craig, Alison Dauble, Esther Eder, Emily Gamelin, Christine Hansen, Colin Jones, Kate Krieg, Kristen Lycett, Kristina McCann-Grosvenor, Gayle Murphy, Jenn Noell, Reed Ozretich, Wren Patton, Megan Poole, Katie Schmidt, Claire Shapleigh, Justin Silbernagel, Megan Wolf.

2008 (Undergraduates; all from OSU unless otherwise indicated)

Charlotte Alvord, Jason Bazzano, Nick Belfry, Conner Blaustein, Carrie Craig (University of Washington), Ryan Craig, Ashley Davidson, Colby Fisher, John Foster, Lindsay Hunter, David Jaffee, Tim Kehl (University of Guelph), Christine Lastovica, Beth Lenker, Brad McDonald (Boston College), Gayle Murphy, Camryn Pennington (University of Puget Sound), Megan Poole, Alexis Rife (Boston College), Brandon Russell (Boston College), Erin Seale (California State Fullerton), Alice Smoker.

University Service through 2008:

Marine Physiology Position Search Committee, Department of Zoology, Co-Chair, 1996; Harold and Leona Rice Professorships, Entomology, Search Committee, 1996-7; American Women in Science, 20 year Anniversary Committee, 1996-7; Clara and Fred Horne Scholarship Committee, 1996; Chair's Advisory Committee, Department of Zoology, 1996-9; John V. Byrne University Lecture Series Committee, 1997-2005; Biology Colloquium Organizing Committee, 1997-8; OSU Distinguished Professor Selection Committee, 1998; Director, Center for Salmon Disease Research, Search Committee, 1998-99; Greenhouse Gas Committee, 1997-99; host for 3 Honorary Degree recipients for 1999 Commencement; Search Committee for the College of Science Dean, 2000-2001; Organizing Committee for Dept of Philosophy's Ideas Matter Fall 2002 Seminar Series: Rachel Carson's Legacy and Challenge, 2002. Ocean Principals Committee, 2002-2009; Search Committee, Department of Zoology, Terrestrial Conservation Ecology faculty position, 2002-2003; Welcome talk at Saturday Academy ASE, 2003; Search Committee, Spaniol Chair, College of Forestry 2004; Guest speaker, TRIAD, April 2004; Guest speaker at Honors College Women's Symposium, 2004; Commencement Address, OSU Graduate School Graduation, 2004; Climate Impacts on the Pacific Northwest: A Scientific Workshop, organizing committee, OSU June 2004; College of Forestry 2005, Guest speaker; OSU PeaceSlam, keynote speaker, November 2005; Special Seminar, Zoology Department, 2006; Hatfield Marine Science Center October 2006, Guest Speaker; Ocean Principals 2002-2009; Gilfillan Award Lecturer June 2007; TRIAD speaker, 2007; Departmental Affairs Committee, Co-Chair, Dept of Zoology, 2006-present; Speaker at OSU Capital Campaign Launch Gala Dinner, 2007; speaker at College of Science Board of Visitors 'Breakthroughs in Science' donor event, 2008.

University Service 2013-present:

Department of Integrative Biology Executive Committee, 2013-present. Guest lectures in FES 565 (Salwasser); Z507 (McLeod and Mason), 2014, 2015, 2016; IB 599 Science Communication (McLeod and Mason), 2019; invited guest speaker for Research Advances in Fisheries and Wildlife Ecology Symposium – student-led, 2014; **Advisor to the University President and Provost for Marine Studies Initiative 2014-present; Invited speaker** for Women In Science (graduate student organization),

2014; **Guest lecture** in GEO 490 (de Silva); **OSU Research Office Advisory Committee 2016-present**); **Guest lecture** in Z319 (Critical Thinking and Communications in the Life Sciences – WIC course), 2016; Guest appearance with OSU Student Chapter of American Meteorological Society, 2019.

Professional Memberships:

American Association for the Advancement of Science
American Institute of Biological Sciences
American Society of Naturalists (Honorary Member for life)
Association for Women in Science
British Ecological Society (Honorary member for life)
Ecological Society of America (Honorary member for life)