



Jane Lubchenco



Date of Birth 4 December 1947

Place Denver, Colorado, USA

Nomination 19 February 2019

Field Environmental science and marine ecology

Title Distinguished University Professor and Marine Studies
Advisor to the President

Most important awards, prizes and academies

A member of the National Academy of Sciences, the Royal Society, The World Academy of Science and others, her awards include 22 honorary doctorates and the highest awards from both the National Academy of Sciences (the Public Welfare Medal) and the National Science Foundation (the Vannevar Bush Award).

Summary of scientific research

A marine ecologist with expertise in the ocean, climate change, and interactions between the environment and human well-being, she focuses on actions that would achieve healthy, resilient ocean ecosystems and people. She also proposed 'A New Social Contract for Science' in which scientists have a moral obligation to engage with society, help solve urgent societal problems, and act with humility, transparency and honesty.

Main publications

2010 Lubchenco, J. Changing Course: A Proposed Framework for Coastal and Marine Spatial Planning in the United States. *Environmental Law Institute National Wetlands Newsletter*, July-August 2010, p 4-7. Environmental Law Institute, Washington, D.C.; 2010 Lubchenco, J. Ocean Observations: Essential for Good Stewardship. *Marine Technology Society Journal*: 44(6): 6-9. <http://dx.doi.org/10.4031/MTSJ.44.6.23>; 2010 Lubchenco, J. and L. Petes. The Interconnected Biosphere: Science at the Ocean's Tipping Points (Eleventh Annual Roger Revelle Lecture). *Oceanography*: 23 (2): 115-129. Reprinted: p 18-39 in *Sustainable Development of the World's Large Marine Ecosystems during Climate Change*. 2010. Eds. Ken Sherman and S. Adams, IUCN. Gland, Switzerland, xii+232 p.; 2010 Lubchenco, J. New NOAA climate office would meet growing needs. *Commentary in Science News*: 177(6):32.; 2010 Lubchenco, J. and N. Sutley. Proposed U.S. Policy for Ocean, Coast and Great Lakes Stewardship. *Science*: 328:1485-6; 2010 Lubchenco, J. Earth Day is about recovering the environment and the economy. Op-ed in Miami Herald and other McClatchy newspapers, April 21.; 2011 Guarderas A.P., S.D. Hacker, and J. Lubchenco. Ecological effects of marine reserves in Latin America and the Caribbean. *Marine Ecology Progress Series*: 429:219-225; 2011 Menge, B.A., S.D. Hacker, T. Friedenburg, J. Lubchenco, R. Craig, G. Rilov, M. Noble, E. Richmond. Potential impact of climate-related changes is buffered by differential responses to recruitment and interactions. *Ecological Monographs*: 81(3): 493-509; 2011 Lubchenco, J. Oil spill heightens importance of sea turtle recovery. Op-ed in Brandenton Herald/Gulf Times, (Qatar)/ Eco-World; 2011 Guarderas A.P., S.D. Hacker, J. Lubchenco. Current status of marine protected areas In Latin America and the Caribbean. *Conservation Biology*: 22:1630-1640. DOI: 10.1111/j.1523-1739.2008.01023.x; 2011 Menge, B.A., T. Gouhier, T. Freidenburg and J. Lubchenco. Linking long-term, large-scale climatic and environmental variability to patterns of marine invertebrate recruitment: Toward explaining 'unexplained' variation. *Journal of Experimental Marine Biology and Ecology*: 400:236-249; 2011 Lubchenco, J. and J. Blumenfeld. Reducing marine debris is worldwide challenge. Op-Ed in Honolulu Star-Advertiser, March 23; 2011; Schwaab, E.C., J. Lubchenco. Global Fisheries Sustainability: A Need for Concerted Actions to Meet Society's Goals. Pp vii-ix, Preface in: *Sustainable Fisheries: Multi-level Approaches to a Global Problem Sustainable Fisheries*, W.W. Taylor, A.J. Lynch, and M.G. Schechter, Eds. American Fisheries Society, Bethesda, MD, USA; 2011 Krenz, C., B. A. Menge, T. L. Freidenburg, J. Lubchenco, F.

Chan, M.M. Foley, and K.J. Nielsen. Ecological subsidies to rocky intertidal communities: linear or non-linear changes along a consistent geographic upwelling transition? *Journal of Experimental Marine Biology and Ecology*: 409 (1-2):361-370; 2011 Lubchenco, J., and M. Damanaki. The pirates of the fisheries. Op-ed in China Daily, and reprinted in Today's Zaman; *Project Syndicate*, among others. September 6; 2011 Damanaki, M., and J. Lubchenco. Agreement with the US to avoid illegal fish import. *Commentary in Fish Information and Services*, Sept 8; 2012 Lubchenco, J., L.E. Petes, and T. R. Karl. Enhancing the resilience of coasts and oceans through climate services. Ocean Policy Research Foundation (of Japan)'s Ship and Ocean Newsletter (available in Japanese and English); 2012 Lubchenco, J. and T.R. Karl. Predicting and Managing Extreme Weather Events. *Physics Today*: 65(3):31-37. Doi:10.1016/j.pt.2012.03.014; 2012 Lubchenco, J., J. Hayes. A Better Eye on the Storm. *Scientific American*: May 2012:68-73; 2012 Bracken, M.E.S., B.A. Menge, M.M. Foley, C.J.B. Sorte, J. Lubchenco, D.R. Schiel. Mussel selectivity for high-quality food drives carbon inputs into open-coast intertidal ecosystems. *Marine Ecology Progress Series*: 459:53-62; 2012 Lubchenco, J., New tools helping fish populations to rebuild. *The Environmental Forum*: 29 (3): 50; 2012 Beddington, J. and J. Lubchenco. Acid Test for Marine Life. Op-ed in New York Times/International Herald Tribune, June 18; 2012 Lubchenco, J. Charting a Course for Success: NOAA's Recreational Fisheries Initiative. *Commentary in Sport Fishing Magazine*, July 18;

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