

## ELIZABETH B. JEWETT

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Rubenstein School of Environment and Natural Resources

Gund Institute for the Environment (Affiliate)

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### Education

2005	University of Maryland	Ph.D. Marine Biology
1991	Harvard University	MA of Public Policy
1985	Yale University	B.A. Latin American Studies

### Ph.D. Dissertation

“Epifaunal Disturbance by Periodic Low Dissolved Oxygen: Native versus Invasive Species Response.”

### Employment and Post Retirement Contributions

2026 - present	Visiting Faculty: University of Vermont and Middlebury College Undergraduate Classes: Intro to Marine Policy & Marine Ecology and Conservation
2024 – present	International Council on Exploration of the Seas (ICES): Marine Carbon Dioxide Removal (mCDR) and Fisheries interactions: international collaboration.
2025 – present	Intergovernmental Panel on Climate Change (IPCC) Lead Author – Chapter 12 (North America) of Working Group 2
2025 – present	National Academies of Science, Engineering and Medicine Standing Committee on marine Carbon Dioxide Removal. Chair of the Governance Working Group.
2023 – 2025	Offshore Wind Research Program Manager Managed all aspects of NOAA Northeast Fisheries Science Center’s investment in research to understand the impacts of offshore wind on NOAA Trust resources (fish and fishing communities). In addition, served as the regional lead for marine Carbon Dioxide Removal research and permitting. Retired from federal service (April 2025).
2011 - 2023	Founding Director US NOAA <a href="#">Ocean Acidification Program</a> . Founded and created the NOAA Ocean Acidification Program which is responsible for all aspects of NOAA’s ocean acidification research and monitoring portfolio. Ocean acidification is a serious threat to marine ecosystems caused by the ocean taking up

carbon emissions from the atmosphere. Grew appropriated OAP budget from \$5 to \$17 Million. Hired and supervised all staff (12+ staff), created and oversaw all budgeting and accountability processes, developed NOAA wide OA network, and oversaw all scientific investment decisions including those related to assessing the impact of ocean acidification on marine species. Founded and co-led the [Global OA Observing Network](#) which now has 1000+ members from 105 countries. Established [SIX regional coastal acidification networks](#) around the US. Primary OA liaison to Congress, other federal agencies and international scientific entities including the United Nations. Led effort to establish a research program at NOAA focused on marine Carbon Dioxide Removal options for the ocean. Mentor to undergraduate and graduate students and early career staff, primarily women, including from minority serving institutions.

- 2007 - 2011      Hypoxia Research Program Manager  
 NOAA Center for Sponsored Coastal Ocean Research  
 Managed two national research programs which fund hypoxia (low oxygen in marine systems) research, including impacts on marine species, through competitive awards (approximately \$5 million per year). Also involved in various national and NOAA policy processes focused on eutrophication, hypoxia and ocean acidification.
- 2006 – 2007      Senior Science Policy Analyst  
 NOAA Center for Sponsored Coastal Ocean Research  
 NOAA Contractor (IM Systems Group)  
 Responsible for leading development and writing of five Congressional reports mandated by the Harmful Algal Bloom and Hypoxia Research and Control Act. Co-organized a workshop of state, federal and academic HAB experts and managers to develop a research and mitigation plan.
- 2005 – 2006      Postdoctoral Fellow  
 Marine Invasions Laboratory  
[Smithsonian Environmental Research Center](#)  
 Involved in research on how invasive species in marine systems affect marine communities and function with a special focus on species which “foul” man-made structures.

#### Steering Committee Positions

- 2022 - 2023      NOAA lead, Ocean Climate Action Plan for the U.S.  
 2020 – 2025      Steering Committee, NOAA CDR Task Force  
 2016 – 2023      Senior Management Council, Coral Reef Conservation Program, NOAA  
 2016 – 2021      Advisory Board, Centre for Collective Action Research, University of Gothenburg, Sweden

2012 – 2023	Co-chair and co-founder of the <a href="#">Global Ocean Acidification Observing Network</a>
2009 – 2023	Chair of the <a href="#">US Interagency Working Group on Ocean Acidification</a>
2014 – 2023	Marine Resources Advisory Council, Washington State

### Teaching Positions

Spring 2026	Part time Lecturer University of Vermont, Rubenstein School Introduction to Marine Policy
Fall 2018	Visiting Faculty University of the District of Columbia College of Agriculture, Urban Sustainability and Environmental Sciences. Class: “Climate Change and Carbon Reduction”
Jan 2016	Visiting Faculty Middlebury College, Middlebury, VT. Environmental Studies Department J-term class: “Interactive Deep Dive: Changing our Impact on the Ocean”
2009 – 2011	Adjunct Faculty George Washington University, Department of Biology BSC 167: “Marine Biology”. Co-taught for two semesters.
Winter 2006	Adjunct Faculty University of Maryland, Department of Biology BSCI 375: “Biological Oceanography”
Summer 2004	Adjunct Faculty American University, Department of Biology BIOL 240: “Oceanography”

### Awards

January 2023	Department of Commerce Silver Medal Recipient “For a multiyear, intensive effort leading, creating, and communicating the state-of-the-science in high profile reports of the IPCC’s Sixth Assessment Cycle. This accomplishment sets a new benchmark for climate science worldwide by providing crucial information to scientists, decision-makers, and the public.”
December 2022	Samuel L. Albritton Outstanding Communicator Award “For founding and leading a NOAA program that has dramatically boosted U.S. and global understanding of ocean acidification through expert science communication and broad public engagement”

December 2022	NOAA Bronze Medal Award Recipient “For leadership in developing the Ocean, Coastal, and Great Lakes Acidification 2020-2029 Research Plan to advance NOAA’s response to acidification.”
June 2021	CARAID Award from the US Integrated Ocean Observing System (US IOOS) “For outstanding contributions to oceans, coasts and Great Lakes observing through vision, leadership, and friendship.”
May 2017	NOAA Bronze Medal Award Recipient “For creating the <a href="#">Global Ocean Acidification Observing Network</a> , a collaborative international approach to document the progress of ocean acidification”
September 2013	NOAA National Ocean Service Peer Recognition “Rafting” Award.
April 2010	NOAA Bronze Medal Award Recipient “For leadership in producing five congressionally-mandated HABHRCA reports to advance the research and management of harmful algal blooms and hypoxia issues”
Spring 2003	Distinguished Teaching Assistant Award, University of Maryland

#### Peer Reviewed Publications

Grabb, K, **EB Jewett** et al. 2025. Marine carbon dioxide removal (mCDR) Engagement with Fisheries, Aquaculture, and Indigenous Communities. ICES Journal of Marine Science 82(12), <https://doi.org/10.1093/icesjms/fsaf198>

Findlay, HS, RA Feely, K Grabb, **EB Jewett**, EF Keister, G Kitch, Y Artioli, P Bhadury, J Blackford, O Crabeck, A Ghosh, Y Li, KB Lowder, S Mehta, B Van Dam, H Beghaura, N Karo, AZ Horodysky, S Hennige, SM Salaah, F Ragazzola, and L Wright-Fairbanks. 2025. Perspectives on marine carbon dioxide removal from the Global Ocean Acidification Observing Network. Oceanography 38(3):24-39, <https://doi.org/10.5670/oceanog.2025.e308>.

Marvel, K, W Su, R Delgado, S Aarons, A Chatterjee, ME Garcia, Z Hausfather, K Hayhoe, DA Hence, **EB Jewett**, A Robel, D Singh, A Tripathi, and RS Vose, 2023: Ch. 2. Climate trends. In: Fifth National Climate Assessment. Crimmins, AR, CW Avery, DR Easterling, KE Kunkel, BC Stewart, and TK Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA. <https://doi.org/10.7930/NCA5.2023.CH2>

**Jewett EB**, K Lawson, K Larson, BM Tracy, S Altman, AL Change, S Cowan, JA Crooks, T Huber, EH Wells, GM Ruiz. Differences in Fouling Community Composition and Space Occupation Across Broad Spatial and Temporal Scales.

Front. Mar. Sci., 09 December 2022 Sec. Marine Ecosystem Ecology  
<https://doi.org/10.3389/fmars.2022.933405>

Hicke, JA, S Lucatello, LD Mortsch, J Dawson, M Domínguez Aguilar, CAF Enquist, EA Gilmore, DS Gutzler, S Harper, K Holsman, **EB Jewett**, TA Kohler, and K Miller, 2022: North America. In: Climate Change 2022: Impacts, Adaptation, and Vulnerability. [Contribution of Working Group II](#) to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change Cambridge University Press.

Page HN, KD Bahr, T Cyronak, **EB Jewett**, MD Johnson, SJ McCoy. Responses of benthic calcifying algae to ocean acidification differ between laboratory and field settings. ICES Journal of Marine Science, Volume 79, Issue 1, January 2022, Pages 1–11, <https://doi.org/10.1093/icesjms/fsab232>

Garcia-Soto C, L Cheng, L Caesar, **EB Jewett**, A Cheripka, IG Rigor, A Caballero, S Chiba, JC Báez, T Zielinski, JP Abraham. An update of Ocean Climate Change Indicators: Sea Surface Temperature, Ocean Heat Content, Ocean pH, Arctic Sea Ice Extent, Sea Level and strength of the AMOC (Atlantic Meridional Overturning Circulation). Front. Mar. Sci., 21 September 2021  
<https://www.frontiersin.org/articles/10.3389/fmars.2021.642372/full>

Laffoley D, JM Baxter, **EB Jewett**, MT Brooks, and NA Lagos. 2021. Ocean Acidification: Scientific Understanding and Challenges. In: Research Handbook on Ocean Acidification. D Vander Zwaag, N Oral and T Stephens, eds. Elgar Online 2021.

Tilbrook B, **EB Jewett** ... et al. 2019. An Enhanced Ocean Acidification Observing Network: From People to Technology to Data Synthesis and Information Exchange. Front. Mar. Sci., 19 June 2019.  
<https://doi.org/10.3389/fmars.2019.00337>

Cross JN, J Turner, S Cooley, J Newton, K Azetsu-Scott, C Chamber, D Dugan, K Goldsmith, H Gurney-Smith, A Harper, **EB Jewett**. 2019. Building the Knowledge-to-Action Pipeline in North America: Connecting Ocean Acidification Research and Actionable Decision Support. Front. Mar. Sci., 02 July 2019  
| <https://doi.org/10.3389/fmars.2019.00356>

Pershing AJ, RB Griffis, **EB Jewett**, CT Armstrong, JF Bruno, DS Busch, AC Haynie, SA Siedlecki, and D Tommasi. 2018. [Oceans and Marine Resources](#). In Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 353–390.

**Jewett L** and A Romanou. 2017. Ocean acidification and other ocean changes. In: Climate Science Special Report: Fourth National Climate Assessment, Volume I [Wuebbles, D.J., D.W. Fahey, K.A. Hibbard, D.J. Dokken, B.C. Stewart, and T.K. Maycock (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 364–392, doi: [10.7930/J0QV3JQB](https://doi.org/10.7930/J0QV3JQB).

Cooley SR, **EB Jewett**, J Reichert, L Robbins, G Shrestha, D Wieczorek, and SB Weisberg. 2015. Getting Ocean Acidification on Decision Makers' To-Do Lists: Dissecting the Process Through Case Studies *Oceanography* 28(2):198–211, <http://dx.doi.org/10.5670/oceanog.2015.42>.

Ecological Impacts of Hypoxia on Living Resources. *Journal of Experimental Marine Biology and Ecology*, Volume 381, Supplement 1, Pages S1-S216 (2009) Edited by Lewitus AJ, Kidwell DM, **Jewett EB**, Brandt S and Mason DM.

Kidwell DM, AJ Lewitus, **EB Jewett**, S Brandt, DM Mason. (2009) Ecological impacts of hypoxia on living resources *Jour Exp Mar Bio Ecol*. Volume 381: S1-3.

**Jewett EB**, AH Hines and GM Ruiz. (2005) Epifaunal Disturbance by Periodic Low Dissolved Oxygen: Native versus Invasive Species Response. *Mar Ecol Progr Ser* 304: 31-44.

### NOAA and IWG Reports

US White House (served as lead NOAA author). [Ocean Climate Action Plan](#). March 2023.

Cross J, **EB Jewett** et al. [NOAA Strategy for marine Carbon Dioxide Removal research](#). May 2023.

**Jewett EB** et al. [NOAA Ocean, Coastal and Great Lakes Acidification Research Plan: 2020-2029](#). July 2020.

Interagency Working Group on Ocean Acidification. [Strategic Plan for Federal Research and Monitoring on Ocean Acidification](#). March 2014.

Newton JA, RA Feely, **EB Jewett**, P Williamson, and J Mathis. [Global Ocean Acidification Observing Network: Requirements and Governance Plan](#). 2014.

NOAA Ocean Acidification Steering Committee. 2010. [NOAA Ocean and Great Lakes Acidification Research Plan](#), NOAA Special Report. (In Revision)

Committee on Environment and Natural Resources. 2010. [Scientific Assessment of Hypoxia in U.S. Coastal Waters](#). Interagency Working Group on Harmful Algal Blooms, Hypoxia, and Human Health of the Joint Subcommittee on Ocean Science and Technology. Washington, DC. Primary Authors: Jewett EB, Kidwell DM, Lopez CB, Bricker SB (NOAA), Burke MK, Walbridge MR (USDA), Eldridge PM, Greene RM, Hagy JD (EPA), Buxton HT (USGS), Diaz RJ (VIMS).

**Jewett EB**, Lopez CB, Dortch Q, Etheridge SM, Backer LC. 2008. [Harmful Algal Bloom Management and Response: Assessment and Plan](#). Interagency Working Group on Harmful Algal Blooms, Hypoxia, and Human Health of the Joint Subcommittee on Ocean Science and Technology. Washington, DC.

Lopez CB, **Jewett EB**, Dortch Q, Walton BT, Hudnell HK. 2008. Scientific Assessment of Freshwater Harmful Algal Blooms. Interagency Working Group on

Harmful Algal Blooms, Hypoxia, and Human Health of the Joint Subcommittee on Ocean Science and Technology. Washington, DC.

Lopez CB, Dortch Q, **Jewett EB**, Garrison D. 2008. Scientific Assessment of Marine Harmful Algal Blooms. Interagency Working Group on Harmful Algal Blooms, Hypoxia, and Human Health of the Joint Subcommittee on Ocean Science and Technology. Washington, D.C.

**Jewett EB**, Lopez CB, Dortch Q, Etheridge SM. 2007. National Assessment of Efforts to Predict and Respond to Harmful Algal Blooms in U.S. Waters. Interim Report. Interagency Working Group on Harmful Algal Blooms, Hypoxia, and Human Health of the Joint Subcommittee on Ocean Science and Technology. Washington, DC.

### Select Presentations

**Jewett EB**. MIT Panel on marine carbon dioxide removal. April 2025.

**Jewett EB**. ICES Annual Meeting. Maximizing ocean carbon uptake: what does it mean for managed species. September 2024.

**Jewett EB**. Council on Foreign Relations Virtual Roundtable. The Future of Oceans in a Changing Climate. March 2022

**Jewett EB**. & Kirstin Holsman. Eco CHIC Podcast. [How Climate Change is Impacting Communities + Ecosystems | IPCC AR6 WG2 Lead Authors](#)

**Jewett EB**. [The Intergovernmental Panel on Climate Change: Ins, Outs, Demands & Frustrations of Serving as Lead Author of Working Group II.](#) Chesapeake Biological Laboratory Science Series. October 26, 2021

**Jewett EB**. [Learning from Lobstermen: insight into North Atlantic right whale conservation](#) Maine Center for Coastal Fisheries Lunch and Learn Series, July 31, 2020

[Not Cool Ep 21: Libby Jewett on ocean acidification](#) (2019 podcast)

**Jewett EB**. Looking Back, Wrapping Up, Moving Forward. Final Plenary Speaker. 4<sup>th</sup> International Global OA Observing Network Workshop. Hangzhou, China. April 2019.

**Jewett EB**. About those Coastal Acidification Networks... Invited talk. Gordon Research Conference. Waterville Valley Resort, NH. July 21, 2016.

**Jewett EB**. Responding and Adapting to Ocean Acidification: A Review of the Current Options. Oceans in a High CO<sub>2</sub> Conference. Hobart, Australia. May 4, 2016.



**Jewett EB**, D Gledhill, L Milke, P McElhany, B. Jonsson, J. Salisbury, A. Cohen, D. McCorkle, L. Barbero, Dan Wiecezorek, DS Busch; J. Miller. Assessing Marine Species Exposure to Ocean Acidification. New Orleans, LA. Ocean Sciences Meeting. February 2016.

**Jewett EB**, J Newton, P Williamson, D Gledhill and S Busch. Monitoring Ecosystem Impacts of Ocean Acidification: Can We Do this? Association for the Sciences of Limnology and Oceanography Conference. Granada, Spain. February 23, 2015.

**Jewett, EB**. US Response to Ocean Acidification. Speech to the Prince of Monaco. OA Economic Impacts Workshop. International Atomic Energy Association. January 2015.

**Jewett EB**. [What goes into the air, goes into the ocean](#). Presentation at the UN Framework Convention on Climate Change US Center. Lima, Peru. December 2014.

[Ocean Acidification threatens marine ecosystems](#). Interview with Libby Jewett. China TV. November 2013.

**Jewett EB**. Ocean Acidification: What's it got to do with Oysters? Middlebury College Invited Lecture. Middlebury, Vermont April 9, 2013.

**Jewett EB**. [Acidity on the half shell: What's it got to do with oysters?](#) Ignite presentation organized by IOOS at MSEE meeting. October 2012.

**Jewett EB**. Hypoxia (Low Oxygen) in Coastal and Great Lakes Waters: A Growing Threat to Aquatic Ecosystems. Women in Science and Mathematics Invited Lecture Series. Buffalo State College. Buffalo, NY. March 2010.

### Volunteer Activities

Maine Center for Coastal Fisheries. Stonington, ME. Board Member.  
Spectrum Mentoring VT. Mentoring a Fairfax high school student.