

Kyle S. Cassidy
kycas@orsted.com

Education

University of Massachusetts Dartmouth

Master of Business Administration (MBA)

University of Massachusetts Dartmouth – School for Marine Science and Technology

MS Marine Science, Living Marine Resources Science/Management

Thesis: Decline of American lobster, *Homarus americanus*, abundance in Buzzards Bay, Massachusetts between 2005-2006 and 2013-2014

University of Massachusetts Amherst

BS Biology

Work Experience

Orsted North America – Strategic Permitting

399 Boylston St, Boston, MA 02116 (401) 280-0752

Fisheries and Environmental Specialist: September 2022 to present

In this role I serve as a subject matter expert to support the US company profile. I am actively involved with all fisheries and environmental research initiatives to facilitate project progress, ensure research groups have appropriate permits, contracts, and safety standards in place to conduct research for the company. I coordinate research surveys with the development projects to certify scopes of work are completed in a timely and accurate manner and provide guidance and solutions if problems arise.

- Develop fisheries and benthic monitoring plans with the project permit teams and external consultants to support US project development
- Engage with stakeholders at various levels (Governmental and Regulatory agencies both state and federal, NGOs, the fishing industry, and working groups)
- Develop innovative solutions to counteract potential risks and delays associated with the permitting process
- Assist with procurement and contracting associated with fisheries and environmental monitoring
- Help contractors navigate safety standards and vessel inspections required by Orsted
- Provide subject matter expertise to assist projects with reviews of Construction and operations plans, Environmental impact assessments, and other agency agreements
- Represent Orsted as a subcommittee member on various working groups and at applicable conferences
- Present monitoring progress updates and plans internally and to external stakeholders
- Forecast budgets and expected costs for future bids
- Developing long term monitoring and mitigation plans for fisheries, benthic habitat assessments
- Coordinating deployment of long-term passive acoustic monitoring devices

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Marine Scientist: May 2022 to September 2022

As a marine scientist I interacted regularly with other subject matter experts to help facilitate and drive our research initiatives which allow progress of the multiple projects under various stages of development. I aided the fisheries and marine mammal strategic research projects, serve on stakeholder working groups and subcommittees, and engage with research partners to ensure smooth project progress and that deliverables are met.

- Assist with development of survey protocols, data management, and monitoring strategies
- Support the preparation and review of applications for various permits needed for offshore wind development projects (Marine Mammal Protection Act and Endangered Species Act authorizations and inputs to BOEM)
- Serve as a technical resource for project compliance by tracking mitigation and approval conditions, proactively positioning projects prior to commitments, and participating in and leading reporting
- Engaging with senior subject matter experts to develop and implement initiatives across the portfolio
- Develop materials for presentation at conferences, to stakeholder engagements, and internal knowledge shares

University of Massachusetts Dartmouth – School of Marine Science and Technology
836 South Rodney French Blvd. New Bedford, MA (508) 910-6373
Research Associate: February 2016 to May 2022

As the program manager for the Marine Fisheries Field Research Group at the University of Massachusetts Dartmouth School for Marine Science and Technology my primary duties included managing between 10 and 15 active research projects with a total budget of over \$3.5 million, data analysis and synthesis, report writing and presenting results to stakeholders and the other members of the scientific, management, fishing, and offshore wind industries. I worked closely with the fishing industry, NOAA, and offshore energy companies to properly plan surveys to ensure adequate coverage to meet project demands, acquire appropriate permits and authorizations for research projects, and worked with regulators to effectively implement data in the following years fisheries framework.

- Oversee staff and students, including hiring, yearly contract renewals, and personnel reviews
- Manage, track, and balance all research budgets for current federal, state, and private grants
- Develop research proposals for new federal, state, and private projects
- Oversee equipment procurement, travel allocations, credit card expenses, purchase orders, budget reallocation, and grant closeouts
- Work closely with multiple wind energy development companies to design and facilitate environmental impact assessment surveys which adhere to state and federal recommendations and requirements
- Manage vessel contracts, RSA allocations, and authorization permitting for each research project
- Negotiate terms and conditions for offshore wind company contracts
- Develop presentation quality maps and data analytics utilizing Geographic Information System programs (ArcGIS)
- Organize steering committee meetings for the fishing industry to present synthesized survey results, discuss current projects and funding opportunities, and take advice and input from fishing industry stakeholders on current issues regarding fishery management and research
- Prepare reports and presentation for survey results to the New England Fishery Management Council, Plan Development Teams, and offshore wind working groups

- Respond to requests for information and data regarding surveys for the New England Fishery Management council, Scallop Plan Development Team, Massachusetts Division of Marine Fisheries, and NOAA for the purposes of stock assessments and management decisions
- Manage image processing, data input, and analysis of the scallop research program
- Manage and develop a pilot study for the utilization of video survey technology in cooperation with the Argentina National Institute for Fisheries Development and several fishing companies to advance their fisheries management techniques
- Manage laboratory scientific surveying equipment and survey data via Microsoft SQL database
- Working closely with engineering and software companies on the development of equipment and programs to electronically monitor and quantify survey data for open cod end video trawls and Atlantic Sea Scallop optical surveys

Buzzards Bay Coalition

114 Front St. New Bedford, MA (508) 999-6363

Assistant Captain for the R/V Baykeeper July 2016 to August 2019

As the assistant captain for a research vessel, primarily I coordinated and conducted water quality analysis surveys. As part of this nonprofit agency for the health of Buzzards Bay, I also help with fund raising and awareness events.

- Operate the vessel on water quality analysis surveys utilizing YSI data loggers
- Conduct nutrient sampling for bay health analysis
- Deploy and maintain long term water quality monitoring buoy
- Perform basic vessel maintenance and safety checks
- Take interns and volunteers on the water to educate them on monitoring techniques

University of Massachusetts Dartmouth – School of Marine Science and Technology

836 South Rodney French Blvd. New Bedford, MA (508) 910-6367

Research Assistant September 2012 to February 2016

Working at the Umass Dartmouth I developed a project and conducted research on American lobster in Buzzards Bay, MA as part of my master's thesis research. My other duties included serving as lead scientist on offshore sea scallop surveys, data analysis and management, and assisting other graduate students on various research projects.

- Develop, conduct, and lead a tag-recapture study on American lobster in Buzzards Bay, MA
- Captained research vessel for all lobster research conducted in Buzzards Bay
- Conduct research for sea scallop video surveys on commercial vessels both inshore and offshore up to 200 miles
- Operate, maintain, and repair lab research vessels and survey equipment
- Input and statistical analysis of data in Microsoft Office (Excel, Word, PowerPoint), Microsoft SQL, and R
- Collect oceanographic water data using various loggers (YSI, Onset, Star-Oddi, Vemco)
- Sample fish species using trammel nets
- Responsible for survey data processing and management
- Ensure project timelines and that reports, and summaries comply with state and federal standards.

Town of Wareham –Department of Natural Resources

48 Marion Rd. Wareham, MA (508) 291-3100

Seasonal Deputy Harbormaster/Shellfish Constable: June 2014 to September 2014

At the harbormaster department we were responsible for the safety of the waterways in and around Wareham, MA. We also were also responsible for the management and enforcement of shellfishing activities within the town. Additionally, as part of an aquaculture restoration program, the department grew oysters in an effort to clean the waters and provide a stock of shellfish for recreational and commercial shellfishing.

- Responsible for operating patrol boats in and around the waters of Wareham, MA and the Cape Cod Canal
- Assisting boaters in need
- Enforcement of boating regulations
- Buoy marker and mooring maintenance and deployment
- Enforcement of local shellfishing regulations
- Maintenance of shellfish aquaculture for town oyster restoration program

Contributed Presentation

“A baseline assessment of marine fisheries population in the northeast United States offshore wind energy lease areas” ICES Annual Science Conference 2022, Dublin, Ireland, September 2022

“Comparative Study of SMAST Drop Camera Survey Techniques on Atlantic Scallop, *Placopecten magellanicus*, Biomass and Density Estimates in the Gulf of Maine” Aquaculture 2022 Triennial Meeting, San Diego, CA. Feb-March 2022

“Surveying fisheries in the wake of COVID-19” National Shellfisheries Association Annual Meeting, Virtual, March 2021

“Expansion of the drop camera survey: The Journey to Argentina” International Pectinid Workshop, Santiago de Compostela, Spain. April 2019

“Comparing Sea Scallop Density and Shell Height Distributions with Advancing Drop Camera Survey Technology” International Pectinid Workshop, Portland, ME. April 2017

“Subsampling Stations with High Sea Scallop Density from Video Surveying Techniques” American Fisheries Society Annual Meeting, Kansas City, MO. August 2016

“Decline of American lobster abundance in Buzzards Bay, Massachusetts between 2005-2006 and 2013-2014” The American Lobster in a Changing Ecosystem, US-Canada Science Symposium, Charlottetown, Prince Edward Island, Canada. November 2015

“Decline of American lobster abundance in Buzzards Bay, Massachusetts between 2005-2006 and 2013-2014” National Shellfisheries Association Annual Meeting, Monterey, CA. March 2015

Publications

Stokesbury, Kevin, D.E., Cassidy, K., and Lowery, T.M. "Constructing a baseline groundfish trawl survey for an offshore windfarm development area" Marine and Coastal Fisheries. *In Review submitted June 2022*

Certifications

NAUI Rescue Diver certified

USCG Boat Safety Training
Safety At Sea Training certified
First Aid/CPR/AED/Narcan

Committees and Boards

- Executive Board Member for the Umass Dartmouth Faculty Federation (June 2020 to May 2022)
- SMAST Environmental Health and Safety Board, Department of Fisheries Oceanography Representative (March 2021 to May 2022)
- Subcommittee member for the Regional Wildlife Science Collaborative's marine mammal subcommittee (July 2022 to present)
- Subcommittee member for the Regional Wildlife Science Collaborative's benthic habitat subcommittee (August 2022 to present)