

Krystin M. Ward



Education:

B.S. University of New Hampshire, Marine and Freshwater Biology, 2006

Research:

Krystin has 8 years of benthic ecology experience including the assessment and restoration of oyster reefs along the east coast of the U.S, invertebrate taxonomy, and underwater video mapping of coral and oyster reefs in the U.S. and abroad. Other research includes offshore environmental monitoring, shellfish and Integrated Multitrophic Aquaculture and establishing community and student programs through outreach.

Presentations and Publications:

- “Restoration of Multiple Intertidal Habitats Including Eastern Oysters (*Crassostrea virginica*) in a Florida Estuary.” Poster Presentation. Jacksonville, FL.
- “The Oyster Restoration Research Partnership 2010-2012: Initiation of a Long-term Program to Restore Oyster Populations in the New York Harbor Region.” Poster Presentation. Mystic, CT.
- “Effects of the Western Gulf of Maine Closure Area on Demersal Fish Populations in Rocky Habitats.” Poster Presentation. Estuarine Research Federation. November 2007. Providence, RI.
- “Development of a General Protocol for Characterizing Subtidal Oyster Reefs Using Remote Sensing Techniques.” Poster Presentation. New Hampshire Sea Grant. 2006. Rye, NH.

Publications and Technical Reports:

- Moore, G.E.; Grizzle, R.E.; Ward, K.M., and Alshih, R.M., 0000. Distribution, pore-water chemistry, and stand characteristics of the mangroves of the United Arab Emirates. *Journal of Coastal Research*, 00(0), 000-0000. Coconut Creek (Florida), ISSN 07490208.
- Grizzle, R.E. and Ward, K.M., 2013. Oyster Bed Mapping in the Great Bay Estuary, 2012-2013. FINAL REPORT to The Piscataqua Region Estuaries Partnership and NH Department of Environmental Services.
- Grizzle, R.E., J.A. Burt and K.M. Ward. 2012. Mapping and characterizing coral habitats in the United Arab Emirates. Submitted to the Ministry of Environment and Water, UAE.
- Grizzle, R.E. and K.M. Ward. 2011. Diversifying Shellfish Aquaculture in Coastal New Hampshire. FINAL REPORT to N.H. Department of Environmental Services. 2008 Federal Red Tide Disaster Relief Funding.
- Grizzle, R.E., M.V. Bricelj, and K.M. Ward. 2011. Shellfish Stock Assessment for UAE Coastal Waters. Submitted to the Ministry of Environment and Water, UAE.
- Grizzle, R.E. and K.M. Ward. 2011. Slow Release Non-Toxic Antifouling Additives for Coatings Used in Aquaculture. FINAL REPORT to ND Life Sciences on USDA SBIR Proposal on 8.7 Aquaculture, under USDA-CSREES-SBIR-000891.
- Grizzle, R.E. and K.M. Ward, 2009. Experimental Quantification of Nutrient Bioextraction Potential of Oysters in Estuarine Waters of New Hampshire. FINAL REPORT to Piscataqua Region Estuaries Partnership.
- Grizzle, R.E. and K.M. Ward, 2009. Video-Based Mapping of Oyster Bottom in the Upper Piscataqua River, Sturgeon Creek, and Spruce Creek. FINAL REPORT to Piscataqua Region Estuaries Partnership.
- Grizzle, R.E., and K.M. Ward, 2009. Restoration of Oyster (*Crassostrea virginica*) Habitat for Multiple Estuarine Species Benefits. FINAL REPORT to Piscataqua Region Estuaries Partnership.

Research Skills:

- Proficient in ArcGIS 10

- Microsoft Office (Word, Excel, PowerPoint)
- Garmin 76Cx and 541s. Trimble, Nomad GIS/GPS
- Proficient in marine invertebrate identification/taxonomy
- Experience on small boats, research vessels and commercial fishing boats
- Certified Scuba Diver
- Current `NH safe boater education` certificate/boating license
- Field sampling techniques including underwater Seaviewer video camera systems, in situ fluorometry, water flow meters, Wildco box corer, Shipek grab, van Veen grab, and Niskin water bottle.