

Katherine J. Thompson

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EDUCATION

M. S. in Living Marine Resource Science and Management (2013)

University of Massachusetts Dartmouth, School for Marine Science and Technology,

GPA: 3.88

B. A. in Biological Sciences, Environmental Science (2007)

Smith College, GPA: 3.75

PROFESSIONAL EXPERIENCE

Doctoral Student, University of Maine at Orono (January 2015-Present)

- Design and execute dissertation project entitled “Investigation of the effect of changing thermal habitat on northern shrimp (*Pandalus borealis*) reproduction and distribution in the Gulf of Maine.”
- Organize sample collection on the ME DMR’s winter shrimp survey, process biological samples, and write proposals for funding.
- Model habitat suitability index (HSI) for shrimp in the GOM and project shrimp distributions.

Supervisory Research Biologist, Coonamessett Farm Foundation (August 2013-November 2014)

- Managed two projects relating to the Georges Bank sea scallop fishery: the Seasonal Bycatch Survey and the Scallop Resource Enhancement Project.
- Wrote proposals and final reports for all projects, including networking with collaborators.
- Presented results at management meetings and scientific conferences.

Master’s Student, SMAST University of Massachusetts (January 2011-May 2013)

- Executed Master’s thesis project entitled: “The Atlantic Sea Scallop (*Placopecten magellanicus*) Reproductive Cycle in Closed Areas I and II on Georges Bank.”
- Collected samples on 7-day research trips aboard scalloping vessels on Georges Bank.
- Performed histology on scallop gonadal tissue, microscopically examined tissue sections to identify reproductive stage, and statistically analyzed oocyte diameter.
- Measured dry gonad weights of monthly samples for two years to identify spawning times.

Research Assistant, SMAST University of Massachusetts (January 2011-May 2013)

- Participated in 8-day research trips on the SMAST video survey of sea scallop grounds.
- Digitized video footage of the seafloor using ImagePro to quantify and measure scallops.
- Organized the SMAST Scallop Tagging Program, collecting tagged shells and data entry.

Marine Ecology Intern, Bigelow Laboratory for Ocean Sciences (May-October 2009)

- Performed extensive fieldwork SCUBA diving in coldwater conditions to suction sample juvenile lobsters for a settlement study directed by Rick Wahle.
- Performed sea scallop fertilization experiments to determine gamete viability with time and fertilization success of ova incubated in various temperature conditions.
- Induced spawning with various induction methods (serotonin, water flow, and thermal shock) and microscopically staged zygote development.

Assistant, DMR Ventless Trap Survey (Summers 2004 and 2006)

- Participated in the Ventless Trap Survey conducted by the Maine Department of Marine Resources baiting, setting and hauling experimental traps.
- Measured lobsters and recorded data on gender and fecundity.

PRESENTATIONS

- Thompson, K., M. Winton, D. Rudders, K. Goetting, C. Huntsberger, R. Smolowtiz. 2014. Seasonal bycatch survey of the sea scallop access areas on Georges Bank. 144th Annual Meeting of the American Fisheries Society. Quebec, Canada. August 17-21, 2014.
- Thompson, K.J., S.D. Inglis, K.D.E. Stokesbury. Identifying Spawning Events of the Sea Scallop, *Placopecten magellanicus*, on Georges Bank. 19th International Pectinid Workshop. Florianopolis, Santa Catarina, Brazil. April 10-16, 2013.
- Thompson, K.J., S.D. Inglis, K.D.E. Stokesbury. Identifying Spawning Events of the Sea Scallop, *Placopecten magellanicus*, on Georges Bank. 104th Annual Meeting of the National Shellfisheries Association. Seattle, WA. March 25-29, 2012.

AWARDS

- National Shellfisheries Association Gordon Gunter Award for Outstanding Student Poster Presentation (May 2012)
- Three-Minute Thesis Competition, 2nd Place (May 2013)

PUBLICATIONS/REPORTS

- Thompson, K.J.**, S. D. Inglis, K.D.E. Stokesbury. 2014. Identifying Spawning Events of the Sea Scallop (*Placopecten magellanicus*) on Georges Bank. Journal of Shellfish Research, 33:1, 77–87.
- Winton, M., **K. Thompson**, D. Rudders, C. Huntsberger, G. DeCelles, S. Inglis, K. Goetting, and R. Smolowitz. Optimizing meat yield and minimizing bycatch in the Georges Bank sea scallop fishery. *In preparation*.
- Lucey, S.M, W.J. Duffy, E. Adams, H. Marshall, O. Nichols and **K. Thompson**. 2013. A Review of “Scientific Communication for Natural Resource Professionals.” Transactions of the American Fisheries Society, 142:4, 1154-1155.
- Goetting, K., **K. Thompson**, F. Davis, C. Huntsberger, K. Stokesbury, S. Cadrin, A. Barkley, S. Inglis, W. DuPaul, D. Rudders, R. Smolowitz. 2013. Seasonal Bycatch Survey of the Georges Bank Scallop Fishery. 2012 Scallop Research Set-Aside Final Report. 131 p.
- Davis, F., **K. Thompson**, D. Rudders. 2013. Testing of Scallop Dredge Bag Design for Flatfish Bycatch Reduction. 2012 Scallop Research Set-Aside Final Report. 45 p.