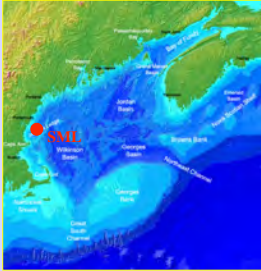


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SHOALS MARINE LABORATORY CORNELL UNIVERSITY, UNH GULF OF MAINE: 36 YEARS OF INTERTIDAL MONITORING



ABSTRACT: The Shoals Marine Laboratory (SML), located on Appledore Island ME in the Isles of Shoals archipelago, has conducted intertidal surveys since 1970 as part of its undergraduate student course work. In addition, researchers at SML have conducted studies for the past two decades on recent and established New England invaders through undergraduate research internships and graduate student and faculty research.

Appledore Island is well positioned (geographically and educationally) to detect new invasions in the Gulf of Maine approaching from southern New England.



Research publications on invasive species at the Shoals Marine Laboratory

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Factors contributing to spatial heterogeneity in the abundance of the common periwinkle *Littorina littorea* (L.).
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Ellis, Julie C; Chen, Walter; O'Keefe, Brendan; Shulman, Myra J, and Witman, Jon D. 2005.
Predation by gulls on crabs in rocky intertidal and shallow subtidal zones of the Gulf of Maine
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Novak, Mark. 2004.
Diurnal activity in a group of Gulf of Maine decapods
Crustaceana (Leiden). 77(Part 5): 603-620

Byrnes, Jarrett; Witman, Jon D: 2003.
Impact assessment of an invasive flatworm, *Convoluta convoluta*, in the Southern Gulf of Maine.
Journal of Experimental Marine Biology and Ecology. 293(2): 173-191

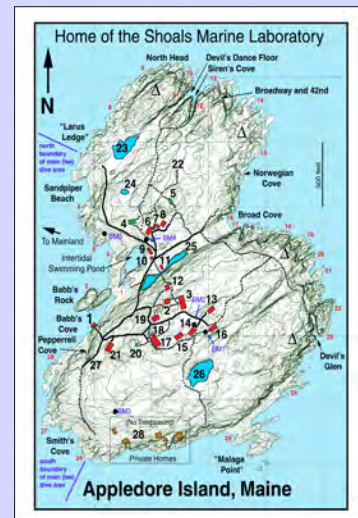
Levin, Phillip S ; Coyer, James A ; Petrik, Rachel ; Good, Thomas P. 2002.
Community wide effects of nonindigenous species on temperate rocky reefs.
Ecology 83(11): 3182-3193

Rivest, B.R., J.A. Coyer, and S.T. Tyler. 2000.
Large numbers of the European acoel (turbellarian) *Convoluta convoluta* in the Gulf of Maine.
Biol. Invasions: 1393-394

Rivest, B., J. Coyer and S. Tyler. 1999.
The first known invasion of a free living marine flatworm.
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Factor, J.R., and B.L. Dexter. 1993.
Suspension feeding in larval crabs (*Carcinus maenas*).
Journal of the Marine Biological Association, U.K., 73: 207-211

Seeley, Robin Hadlock. 1986.
Intense natural selection caused a rapid morphological transition in a living marine snail.
Proc. Natl. Acad. Sci. USA. 83: 6897-6901



TRANSECT LOCATIONS , RED NUMBERS

