

Curriculum vitae

Mary R. Carman

Ascidian Ecologist
Research Associate III
Biology Department
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

Telephone: 508-289-2987
Fax: 508-457-2183
E-mail: mcarman@whoi.edu

PROFESSIONAL PREPARATION:

University of Iowa, Geology, MS, 1984

APPOINTMENTS:

Research Associate III, Woods Hole Oceanographic Institution, 2006-present
Research Associate II, Woods Hole Oceanographic Institution, 2003-2006
Research Associate I, Woods Hole Oceanographic Institution, 2000-2003
Paleontology Collection Manager, Field Museum of Natural History, 1985-1988

PUBLICATIONS:

Related Publications:

Bullard, S. G., G. Lambert, M. R. **Carman**, J. Byrnes, R. B. Whitlatch, G. Ruiz, R. J. Miller, L. Harris, P. C. Valentine, J. S. Collie, J. Pederson, D. C. McNaught, A. N. Cohen, R. G. Asch, J. Dijkstra, and K. Heinonen, 2007. The invasive colonial ascidian *Didemnum* sp.: current distribution, basic biology, and potential threat to marine communities of the northeast and west coasts of the United States: *Journal of Experimental Marine Biology and Ecology* 342:99-108.

Carman, M. R., 2007. Benthic foraminifera associated with the invasive ascidian *Didemnum* sp.: *Journal of Experimental Marine Biology and Ecology* 342:147-153.

Carman, M. R., H. M. Allen, and M. C. Tyrrell, 2009. Limited value of the common periwinkle snail *Littorina littorea* as a biological control for the invasive tunicate *Didemnum vexillum*: *Aquatic Invasions* 4 (in press).

Carman, M. R., K. E. Hoagland, E. R. M. Green-Beach, D. W. Grunden, 2009. Tunicate faunas of two North Atlantic-New England islands: Martha's Vineyard, Massachusetts and Block Island, Rhode Island: *Aquatic Invasions* 4 (in press).

Carman, M. R. and L. S. Roscoe, 2003. The didemnid mystery: *Massachusetts Wildlife* 53:2-7.

Tait, E., M. R. **Carman**, and S. M. Sievert, 2007. Phylogenetic diversity of bacteria associated with ascidians in Eel Pond (Woods Hole, Massachusetts): *Journal of Experimental Marine Biology and Ecology* 342:138-146.

Valentine, P. C., M. R. **Carman**, D. S. Blackwood, and E. J. Heffron, 2007. Ecological observations on the colonial ascidian *Didemnum* sp. in a New England tide pool habitat: *Journal of Experimental Marine Biology and Ecology* 342:109-121.

Other Significant Publications:

Bullard, S. G. and M. R. **Carman**, 2008. Current trends in invasive ascidian research. In: Columbus, F (ed.), *Aquatic Invasive Species*, Nova Science Publications, Hauppauge, NY (in press).

Carman, M. R., S. G. Bullard, and J. P. Donnelly, JP, 2007. Water quality, nitrogen pollution, and ascidian diversity in northwestern Atlantic coastal waters of Massachusetts, USA: *Journal of Experimental Marine Biology and Ecology* 342:175-178.

Morris, J. A., M. R. **Carman**, K. E. Hoagland, E. R. M. Green-Beach, and R. C. Karney, 2009. Impact of the invasive colonial tunicate *Didemnum vexillum* on the recruitment of the bay scallop (*Argopecten irradians irradians*) and implications for recruitment of the sea scallop (*Plactopecten magellanicus*) on Georges Bank: *Aquatic Invasions* 4 (in press).

Podsiadlo, P., L. Sui, Y. Elkasabi, P. Burgardt, J. Lee, A. Miryala, W. Kusumaatmaja, M. R. **Carman**, and others, 2007. Layer-by-layer assembled films of cellulose nanowires with antireflective properties: *Langmuir* 23: 7901-7906.

Valentine, P. C., M. R. **Carman**, J. Dijkstra, and D. S. Blackwood, 2009. Larval recruitment of the invasive colonial ascidian *Didemnum vexillum*, seasonal water temperatures in New England coastal and offshore waters, and implications for spread of the species: *Aquatic Invasions* 4 (in press).

SYNERGISTIC ACTIVITIES:

Created and organized International Invasive Sea Squirt Conference I (2005), International Invasive Sea Squirt Conference II (2007), and International Invasive Sea Squirt Conference III (2010); ascidian expert for Canadian Risk Assessment of Aquatic Invasive Ascidiaceans (March 2007); development of economic impact study of invasive ascidiaceans on shellfish aquaculture in New England and the mid-Atlantic states; member of NOAA-Invasive Colonial Tunicate Workshop (September 2008).

COLLABORATORS & OTHER AFFILIATIONS:

Collaborators:

Bullard, S. G., University of Hartford
Dijkstra, J., University of New Hampshire
Gallager, S., Woods Hole Oceanographic Institution
Grunden, D. W., Oak Bluffs Shellfish Department
Hoagland, P., Woods Hole Oceanographic Institution
Karney, R. C., Martha's Vineyard Shellfish Group, Inc.
Lambert, G., Friday Harbor Labs
Locke, A., Fisheries and Oceans Canada-Moncton
Morris, J. A., NOAA National Ocean Service
Rocha, R. M., Universidade Federal do Parana, Brazil
Valentine, P. C., U. S. Geological Survey-Woods Hole

Graduate Advisor:

Klapper, G., University of Iowa