



## Jefferson Taylor Turner

### Chancellor Professor

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### Research Interests

Long-term plankton and water-quality ecological survey of Buzzards Bay; plankton communities of Boston Harbor and adjacent waters; zooplankton feeding; food web accumulation and transport of red tide toxins; interactions between copepod feeding and reproductive success.

### Current Research

2006-2012: Grant from ECOHAB (NOAA/NSF partnership). GOMTOX: Dynamics of *Alexandrium fundyense* distributions in the Gulf of Maine: An observational and modeling study of nearshore and offshore shellfish toxicity, vertical toxin flux, and bloom dynamics in a complex shelf sea. (Turner-UMass Dartmouth portion \$523,260), D.M. Anderson (PI, WHOI) and 15 Co-PIs.

### Selected Recent Publications

- Jefferson T. Turner**, Vittoria Roncalli, Adrianna Ianora and eight others, 2012. Biogeographic effects of the Gulf of Mexico red tide dinoflagellate *Karenia brevis* on Mediterranean copepods. *Harmful Algae* 16: 63-73. doi:10.1016/j.hal.2012.01.006.
- Turner, Jefferson T.**, David G. Borkman, and P. Scott Libby, 2011. Zooplankton trends in Massachusetts Bay, USA: 1998-2008. *J. Plankton. Res.* 33(7): 1066-1080.
- Milligan, P.J., E.A. Stahl, N.V. Schizas, and **J.T. Turner**. 2011. Phylogeography of the copepod *Acartia hudsonica* in estuaries of the northeastern United States. Proceedings of the 10<sup>th</sup> International Conference on Copepoda, Pattaya, Thailand. *Hydrobiologia* 666: 155-165.
- Turner, Jefferson T.** 2010. Zooplankton community grazing impact on a bloom of *Alexandrium fundyense* in the Gulf of Maine. *Harmful Algae* 9: 578-589.
- Hunt, C. D., D. G. Borkman, P. S. Libby, R. Lacouture, **J. T. Turner** and M. J. Mickelson. 2009. Phytoplankton patterns in Massachusetts Bay – 1992-2007. *Estuaries and Coasts* 33: 448-470.
- Turner, J. T.**, D. G. Borkman, J. A. Lincoln, D. A. Gauthier, and C. M. Petitpas. 2009. Plankton studies in Buzzards Bay, Massachusetts, USA. VI. Phytoplankton and water quality, 1987 to 1998. *Mar. Ecol. Prog. Ser.* 376: 103-122.
- Gauthier, D. A., J. A. Lincoln, and **J. T. Turner**. 2008. Distribution, abundance, and growth of larval tautog, *Tautoga onitis*, in Buzzards Bay, Massachusetts, USA. *Mar. Ecol.* 29: 76-88.
- Ianora, A., R. Casotti, M. Bastianini, C. Brunet, G. d'Ippolito, F. Acri, A. Fontana, A. Cutignano, **J. T. Turner**, and A. Miralto. 2008. Low reproductive success for copepods during a bloom of the non-aldehyde-producing diatom *Cerataulina pelagica* in the North Adriatic Sea. *Mar. Ecol.* 29: 399-410.
- Oviatt, C. A., K. J. W. Hyde, A. A. Keller, and **J. T. Turner**. 2007. Production patterns in Massachusetts Bay with outfall relocation. *Estuaries and Coasts* 30: 35-46.
- Granéli, E., and **J. T. Turner** (editors). 2006. *Ecology of Harmful Algae*. Ecological Studies 189. Springer-Verlag, Berlin and Heidelberg 413 pp.
- Turner, J. T.** 2006. Harmful algae interactions with marine planktonic grazers, Chapter 20, p. 259-270. In: Granéli, E., and J. T. Turner (editors) (2006). *Ecology of Harmful Algae*. Ecological Studies 189. Springer-Verlag, Berlin and Heidelberg.
- Turner, J. T.**, and E. Granéli. 2006. "Top-down" predation control on marine harmful algae, Chapter 27, p. 355-366. In: Granéli, E., and J. T. Turner (editors). *Ecology of Harmful Algae*. Ecological Studies 189. Springer-Verlag, Berlin and Heidelberg.
- Turner, J. T.**, D. G. Borkman, and C. A. Hunt. 2006. Zooplankton of Massachusetts Bay, USA, 1992-2003: Relationships between the copepod *Calanus finmarchicus* and the North Atlantic Oscillation. *Mar. Ecol. Prog. Ser.* 311: 115-124.