

ELIZABETH J. TURNER
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Educational Experience:

B.A. (Biology), Texas Christian University, 1980 (*magna cum laude*, Phi Beta Kappa)
M.S. (Marine Environmental Science), SUNY at Stony Brook, 1983
Ph.D. (Oceanography), University of Delaware, 1990 (best dissertation award)

Professional Awards:

National Ocean Service Employee of the Year, 2012
NOAA Bronze Medal, 2010

Work Experience:

1998 - present **Oceanographer and Senior Program Manager**
 NOAA Center for Sponsored Coastal Ocean Research (CSCOR)

Responsibilities:

1. Manage research initiatives to develop predictive capabilities through coastal ocean science and modeling;
2. Oversee grant process, including development of Request for Proposals, management of peer review process, grant award recommendation and tracking, communication with grant recipients, and highlighting of research products to NOAA management;
3. Handle research budget of up to \$6M annually
4. Interact with other coastal ocean scientists and stakeholders across and outside of NOAA;
5. Serve on NOAA committees and task teams for program planning;
6. Represent CSCOR and NOAA at national and international meetings.

1996 - 1998 **Program Officer, Biological Oceanography**
 Office of Naval Research (ONR)

Responsibilities:

1. Managed research projects to develop expertise in biological optics and acoustics of interest to the US Navy;
2. Oversaw grant process, including review of planning letters, recommendations for funding, grant award tracking, communication with grant recipients, and highlighting of research products to U.S. Navy;
3. Handled research budget of up to \$3M annually
4. Interacted with other ocean scientists across and outside of ONR;
5. Served on site visit teams to evaluate research progress at major universities;
6. Represented ONR at national and international meetings.

1995-1996 **Research Assistant, Ocean Studies Board (OSB)**

National Research Council (NRC), National Academy of Science

Responsibilities:

1. Served as study director on 2 NRC reports: (1) dual-use technology developed through ONR research funding and (2) the scientific justifications and uses of an arctic icebreaker;
2. Identified potential committee members and convened committee meetings, developed meeting agendas and project timelines, facilitated committee communication during and between committee meetings, tracked report progress, and oversaw final editing process through National Academy Press;
3. Assisted in background for report on ecosystem-based management of fisheries.

1991-1995

**Adjunct Research Associate, Department of Zoology
University of Maryland at College Park**

Responsibilities:

1. Conducted post-doctoral research into feeding and larval transport of bivalve shellfish in flowing seawater;
2. Published findings in national journals;
3. Presented results to national audiences;
4. Taught Animal Diversity, sophomore undergraduate lecture (~100 students), Principles of Biology, introductory summer lecture (~60 students), Marine Ecology, upper-level undergraduate/graduate lecture (~25 students).

1992-1993

**Instructor of Biology, Department of Biology
Hood College**

Responsibilities:

1. Taught undergraduate and graduate courses:
 - a. Ecology of Chesapeake Bay, developed new graduate lecture course with field trips (~35 students)
 - b. Marine Ecology, developed upper-level undergraduate lecture and laboratory course (10 students); graduate lecture course (~25 students)
 - c. Principles of Ecology, developed graduate lecture course (~40 students)
 - d. Environmental Studies, non-majors undergraduate lecture course (~35 students)
2. Advised students.

1990-1991

**Post-doctoral Research Fellow, Institute of Marine and Coastal Sciences
Rutgers University**

Responsibilities:

1. Conducted research into interactions between water currents, waves, and benthic invertebrate ecology;
2. Published findings in national journals;
3. Presented results to national audiences.

1987-1990

Graduate Fellow, College of Marine Studies

University of Delaware

Responsibilities:

1. Conducted research into interactions between water currents, waves, and benthic invertebrate ecology;
2. Built and maintained an oscillatory water tunnel for laboratory experiments;
3. Conducted shore-based benthic ecology work;
4. Served on student housing committee.

1985-1987

Instructor in Geosciences University of Southern Maine

Responsibilities:

1. Taught Introductory Oceanography as a non-majors lecture and laboratory course (~100 students/semester)
2. Led field trips to local coastal environments;
3. Advised undergraduate students

1984-1987

Research Assistant, Zoology Department University of Maine at Orono

Responsibilities:

1. Handled all logistical planning for three oceanographic research cruises to Sargasso Sea:
July - August 1984 R/V Columbus Iselin
Sept. - October 1984 R/V Columbus Iselin
March - April 1985 R/V Cape Florida
2. Processed and maintained biological samples;
3. Created graphical representations of data;
4. Proofread scientific manuscripts.

Professional Societies:

American Association of University Women
American Geophysical Union
American Society for Limnology and Oceanography
Coastal and Estuarine Research Federation
The Oceanographic Society

Publications:

Cerrato, R.M. and E.J. Turner, 1983. Effects of a storm-induced breach on the growth of *Mercenaria mercenaria* in Moriches Bay. *Estuaries* 6(3):308.

Turner, E.J. and D.C. Miller, 1988. A new facility for studying oscillatory wave effects on benthic organisms. *EOS* 69:1123.

Turner, E.J. and D.C. Miller, 1991. Behavior of a passive suspension feeder

(*Spiochaetopterus oculatus* (Webster)) under oscillatory flow. J. Exp. Mar. Biol. Ecol. 149:123-137.

Turner, E.J. and D. C. Miller, 1991. Behavior and growth of *Mercenaria mercenaria* during simulated storms. Mar. Biol. 111:55-64.

Miller, D.C., M.J. Bock and E.J. Turner, 1992. Deposit and suspension feeding in oscillatory flows and sediment fluxes. J. Mar. Res. 50:489-520.

Turner, E.J., R.K. Zimmer-Faust, M.A. Palmer and M. Luckenbach, 1994. Settlement of oyster (*Crassostrea virginica*) larvae: effects of water flow and a water-soluble chemical cue. Limnology and Oceanography 39(7):1579-1593.

Cloyd, E.T., A.P. Leonardi, D.L. Scheurer, and E.J. Turner. 2007. Establishing National Ocean Service Priorities for Estuarine, Coastal, and Ocean Modeling: Capabilities, Gaps, and Preliminary Prioritization Factors. NOAA Technical Memorandum NOS NCCOS 57. 56 pp.

Turner, E.J. and D. B. Haidvogel. 2009. Taking Ocean Research Results to Applications: Examples and Lessons from US GLOBEC. Oceanography 22(4):232-241.

Brown, C.W., D. Green, B.M Hickey, J.M Jacobs, L.W.J. Lanarolle, S. Moore, D.J Schwab, V.L. Trainer, E. Turner, R.J. Wood, T.T. Wynne. 2013. Towards operational forecasts of algal blooms and pathogens. pp 345 – 368 in: *Environmental Tracking for Public Health Surveillance*, Morain and Budge (eds) Taylor & Francis Group, London.

Reports of the Ocean Studies Board, National Research Council:

Arctic Ocean Research and Supporting Facilities: National Needs and Goals (National Academy Press, 1995) - A study for the National Science Foundation on the need and scientific requirements for a new arctic research icebreaker. **[Study Director]**

Expanding the Uses of Naval Ocean Science and Technology (National Academy Press, 1995) - A study for the Office of Naval Research on the transfer of some of their ocean science and technology programs to outside sectors. **[Study Director]**

Sustaining Fisheries by Managing Ecosystems (National Academy Press, 1999) - A report of a study funded by the National Academy of Sciences on ecosystem management goals and implementation to manage marine fisheries in a sustainable fashion. **[Research Assistant]**