

## X. LIST OF REFERENCES

- AFCEE (with Howes, B.L. & Jacobs Engineering). 2000. Ashumet Pond Trophic Health Technical Memorandum. AFCEE/MMR Installation Restoration Program, AFC-J23-35S18402-M17-0005, 210pp.
- Brawley, J.W., G. Collins, J.N. Kremer, C.H. Sham, and I. Valiela, 2000. A time-dependent model of nitrogen loading to estuaries from coastal watersheds. *Journal of Environmental Quality* 29:1448-1461.
- Brigham Young University, 1998. "User's Manual, Surfacewater Modeling System."
- Cambareri, T.C. and E.M. Eichner, 1998. Watershed Delineation and Ground Water Discharge to a Coastal Embayment. *Ground Water*, 36(4): 626-634.
- Cape Cod Commission, 1998. "Cape Cod Coastal Embayment Project." Barnstable, MA.
- Cape Cod Commission Water Resources Office, 1991. Technical Bulletin 91-001, Nitrogen Loading.
- Cape Cod Commission Water Resources Office, 1998. Cape Cod Coastal Embayment Project Interim Final Report.
- Cape Cod Commission, 1998. Cape Cod Coastal Embayment Project: A Nitrogen Loading Analysis of Popponesset Bay. Cape Cod Commission Technical Report.
- Conover, J.T., 1958. Seasonal Growth of Benthic Marine Plants as Related to Environmental Factors in an Estuary. *Institute of Marine Science*, 5:97-147.
- Costa, J.E., B.L. Howes, I. Valiela and A.E. Giblin. 1992. Monitoring nitrogen and indicators of nitrogen loading to support management action in Buzzards Bay. In: McKenzie et al. (eds) *Ecological Indicators*, Chapt. 6, pp. 497-529.
- Costa, J.E., G. Heufelder, S. Foss, N.P. Millham, B.L. Howes, 2002. Nitrogen Removal Efficiencies of Three Alternative Septic System Technologies and a Conventional Septic System. *Environment Cape Cod* 5(1): 15-24.
- D'Elia, C.F., P.A. Steudler and N. Corwin. 1977. Determination of total nitrogen in aqueous samples using persulfate digestion. *Limnology and Oceanography* 22:760-764.
- DeSimone, L.A. and B.L. Howes. 1996. Denitrification and nitrogen transport in a coastal aquifer receiving wastewater discharge. *Environmental Science and Technology* 30:1152-1162.
- Dyer, K.R., 1997. *Estuaries, A Physical Introduction*, 2nd Edition, John Wiley & Sons, NY, 195 pp.
- Eichner, E.M. and T.C. Cambareri, 1992. Technical Bulletin 91-001: Nitrogen Loading. Cape Cod Commission, Water Resources Office, Barnstable, MA. Available at: <http://www.capecodcommission.org/regulatory/NitrogenLoadTechbulletin.pdf>

- Eichner, E.M., T.C. Cambareri, G. Belfit, D. McCaffery, S. Michaud, and B. Smith, 2003. Cape Cod Pond and Lake Atlas. Cape Cod Commission. Barnstable, MA.
- Eichner, E.M., T.C. Cambareri, K. Livingston, C. Lawrence, B. Smith, and G. Prahm, 1998. Cape Coastal Embayment Project: Interim Final Report. Cape Cod Commission, Barnstable, MA.
- Fischer, H. B., List, J. E., Koh, R. C. Y., Imberger, J., and Brooks, N. H. (1979). *Mixing in inland and coastal waters*. Academic. San Diego.
- FitzGerald, D.M., 1993. "Origin and Stability of Tidal Inlets in Massachusetts." In: Coastal and Estuarine Studies: Formation and Evolution of Multiple Tidal Inlets, Volume 29, Symposium on Hydrodynamics and Sediment Dynamics of Tidal Inlets (D. G. Aubrey and G.S. Geise, eds.). American Geophysical Union, Washington, D.C. pp. 1-61.
- Geise, G.S., 1988. "Cyclical Behavior of the Tidal Inlet at Nauset Beach, Massachusetts: Application to Coastal Resource Management." In: Lecture Notes on Coastal and Estuarine Studies, Volume 29, Symposium on Hydrodynamics and Sediment Dynamics of Tidal Inlets (D. Aubrey and L. Weishar, eds.), Springer-Verlag, NY, pp. 269-283.
- Harbaugh, A.W. and McDonald, M.G., 1996. User's Documentation for MODFLOW-96, an update to the U.S. Geological Survey Modular Finite-Difference Ground-Water Flow Model: U.S. Geological Survey Open-File Report 96-485, 56p.
- Henderson, F. M., 1966. *Open Channel Flow*. Macmillan Publishing Company, New York. pp. 96-101.
- Howes, D.L., D.D. Goehringer, 1996. Water Quality Monitoring of Falmouth's Coastal Ponds: Results from the 1994 and 1995 Seasons
- Howes, B.L., D.D. Goehringer, N.P. Millham, D.R. Schlezinger, G.R. Hampson, C.D. Taylor and D.G. Aubrey. 1997. Nantucket Harbor Study: A quantitative assessment of the environmental health of Nantucket Harbor for the development of a nutrient management plan. Technical Report to the Town of Nantucket, pp. 110.
- Howes, B.L., J.S. Ramsey and S.W. Kelley, 2000. Nitrogen modeling to support watershed management: comparison of approaches and sensitivity analysis. Final Report to MA Department of Environmental Protection and USEPA, 94 pp. Published by MADEP.
- Howes, B.L., R.I. Samimy and B. Dudley, 2003. Massachusetts Estuaries Project, Site-Specific Nitrogen Thresholds for Southeastern Massachusetts Embayments: Critical Indicators Interim Report
- Howes, B.L., R.I. Samimy, D.R. Schlezinger, S. Kelley, J. Ramsey, T. Ruthven, and E. Eichner, 2004. Linked Watershed-Embayment Model to Determine Critical Nitrogen Loading Thresholds for the Quashnet River, Hamblin Pond, and Jehu Pond, in the Waquoit Bay System of the Towns of Mashpee and Falmouth, MA. Massachusetts Estuaries Project Final Report, pp. 147.

- Jorgensen, B.B. 1977. The sulfur cycle of a coastal marine sediment (Limfjorden, Denmark). *Limnology Oceanography*, 22:814-832.
- King, Ian P., 1990. "Program Documentation - RMA2 - A Two Dimensional Finite Element Model for Flow in Estuaries and Streams." Resource Management Associates, Lafayette, CA.
- Klump, J. and C. Martens. 1983. Benthic nitrogen regeneration. In: *Nitrogen in the Marine Environment*, (Carpenter & Capone, eds.). Academic Press.
- Lindeburg, Michael R., 1992. *Civil Engineering Reference Manual, Sixth Edition*. Professional Publications, Inc., Belmont, CA.
- Massachusetts Department of Environmental Protection, 1999. DEP Nitrogen Loading Computer Model Guidance. Bureau of Resource Protection. Boston, MA. Available at: <http://www.state.ma.us/dep/brp/dws/techtol.htm>
- Massachusetts Department of Revenue. November, 2002. Property Type Classification Codes.
- Massachusetts Water Resources Authority, 1983. Water supply study and environmental impact statement for the year 2020, Task I: Water demand projections. MWRA Report, Boston.
- Millham, N.P. and B.L. Howes, 1994a. Freshwater flow into a coastal embayment: groundwater and surface water inputs. *Limnology and Oceanography* 39: 1928-1944.
- Millham, N.P. and B.L. Howes, 1994b. Patterns of groundwater discharge to a shallow coastal embayment. *Marine Ecology Progress Series* 112:155-167.
- Norton, W.R., I.P. King and G.T. Orlob, 1973. "A Finite Element Model for Lower Granite Reservoir", prepared for the Walla Walla District, U.S. Army Corps of Engineers, Walla Walla, WA.
- Oldale, R. N., 1992, Cape Cod and the Islands: The geologic history: East Orleans, MA, Parnassus Imprints, 208 p.
- Pleasant Bay Technical Advisory Committee, and Ridley & Associates, Inc., 1998. Pleasant Bay resource management plan. Report to the Pleasant Bay Steering Committee, 158 pp + appx.
- Pollock, D.W., 1994. User's Guide to MODPATH/MODPATH\_PLOT, version 3 – A particle tracking post-processing package for MODFLOW, the U.S. Geological Survey modular three dimensional finite-difference ground-water-flow-model: U.S. Geological Survey Open-File Report 94-464, [variously paged].
- Ramsey, J.S., B.L. Howes, S.W. Kelley, and F. Li, 2000. "Water Quality Analysis and Implications of Future Nitrogen Loading Management for Great, Green, and Bournes Ponds, Falmouth, Massachusetts." *Environment Cape Cod*, Volume 3, Number 1. Barnstable County, Barnstable, MA. pp. 1-20.
- Ramsey, John S., Jon D. Wood, and Sean W. Kelley, 1999. "Two Dimensional Hydrodynamic Modeling of Great, Green, and Bournes Ponds, Falmouth, MA." *Applied Coastal Research*

- and Engineering, Inc. report prepared for the Town of Falmouth and Horsley & Witten, Inc. 41 pp.
- Ryther, J.H., and W.M. Dunstan. 1971. Nitrogen, phosphorous and eutrophication in the coastal marine environment. *Science*, 171:1008-1012.
- Scheiner, D. 1976. Determination of ammonia and Kjeldahl nitrogen by indophenol method. *Water Resources* 10: 31-36.
- Smith, R.L., B.L. Howes and J.H. Duff. 1991. Denitrification in nitrate-contaminated groundwater: occurrence in steep vertical geochemical gradients. *Geochimica Cosmochimica Acta* 55:1815-1825.
- Taylor, C.D. and B.L. Howes, 1994. Effect of sampling frequency on measurements of seasonal primary production and oxygen status in near-shore coastal ecosystems. *Marine Ecology Progress Series* 108: 193-203.
- Thieler, E.R., J.F. O'Connell, C.A. Schupp, 2001. The Massachusetts Shoreline Change Project: 1800s to 1994. Technical Report, 60 p.
- U.S. Army Corps of Engineers (1964). "Beach Erosion Control Report on Cooperative Study of Falmouth, Massachusetts." Headquarters, Department of the Army, Office of the Chief of Engineers, Washington, D.C.
- USGS web site for groundwater data for Massachusetts and Rhode Island:  
[http://ma.water.usgs.gov/ground\\_water/ground-water\\_data.htm](http://ma.water.usgs.gov/ground_water/ground-water_data.htm)
- Van de Kreeke, J., 1988. "Chapter 3: Dispersion in Shallow Estuaries." In: *Hydrodynamics of Estuaries, Volume I, Estuarine Physics*, (B.J. Kjerfve, ed.). CRC Press, Inc. pp. 27-39.
- Weiskel, P.K. and B.L. Howes, 1991. Quantifying Dissolved Nitrogen Flux Through a Coastal Watershed. *Water Resources Research*, Volume 27, Number 11, Pages 2929-2939.
- Weiskel, P.K. and B.L. Howes, 1992, Differential Transport of Sewage Derived Nitrogen and Phosphorous through a Coastal Watershed. *Environmental Science and Technology*, Volume 26, No. 2, pp. 352 - 360
- Wood, J.D., J.S. Ramsey, and S. W. Kelley, 1999. "Two-Dimensional Hydrodynamic Modeling of Barnstable Harbor and Great Marsh, Barnstable, MA." Applied Coastal Research and Engineering, Inc. report prepared for the Town of Barnstable. 28 pp.
- Zimmerman, J.T.F., 1988. "Chapter 6: Estuarine Residence Times." In: *Hydrodynamics of Estuaries, Volume I, Estuarine Physics*, (B.J. Kjerfve, ed.). CRC Press, Inc. pp. 75-84.