



## **Narragansett Bay**

Candace Oviatt

Graduate School of Oceanography  
University of Rhode Island

### **Summary:**

Kremer, J.N. and S.W. Nixon. 1978. A coastal marine ecosystem: simulation and analysis. Springer-Verlag, New York.

Nixon, S. W., C. D. Hunt and B. L. Nowicki. 1986a. The retention of nutrients (C, N, P), heavy metals (Mn, Cd, Pb, Cu), and petroleum hydrocarbons in Narragansett Bay. Pp. 99-122 *in*: and J. M. Martin and P. Lasserre, (eds.) *Biogeochemical Processes at the Land-Sea Boundary*. Elsevier Press, Amsterdam.

Nixon, S.W., S.L. Granger and B.L. Nowicki. 1995. An assessment of the annual mass balance of carbon, nitrogen, and phosphorus in Narragansett Bay. *Biogeochemistry*. 31:15-61.

### **Classic:**

Asselin, S. and M.L. Spaulding. 1993. Flushing times for the Providence River based on tracer experiments. *Estuaries*. 16:830-839.

Bertness, M.D. 1992. The ecology of New England salt marsh plant communities. *American Scientist*. 80: 260-268.

Bourne, D.W. and J.J. Govoni. 1988. Distribution of fish eggs and larvae and patterns of water circulation in Narragansett Bay, 1972-1973. *Amer. Fish. Soc. Symp.* 3:132-148.

Bricker-Urso, Si, S.W. Nixon, J.K. Cochran, D.J. Hirschberg and C. Hunt. 1989. Accretion rates and sediment accumulation in Rhode Island Salt marshes. *Estuaries* 12:300-317.

Deason, E.E. and T.J. Smayda. 1982. Ctenophore-zooplankton-phytoplankton interactions in Narragansett Bay, Rhode Island. *J. Plankton Res.* 4:214-236.

Durbin, A.G. and E.G. Durbin. 1981. Standing stock and estimated production in Narragansett Bay, Rhode Island. *Estuaries*. 4:24-41.

Gaines, S. and M.D. Bertness. 1992. Dispersal of juveniles and variable recruitment in sessile marine species. *Nature*. 360:579-580.

Grassle, J. F., J. P. Grassle, L. S. Brown-Leger, R. F. Petrecca, and N. J. Copley. 1985. Subtidal macrobenthos of Narragansett Bay. Field and mesocosm studies of the effects of eutrophication and organic input on benthic populations. Pp. 421-434 *in*, J. S. Gray and M. E. Christiansen, eds., *Marine Biology of Polar Regions and Effects of Stress on Marine Organisms*. Wiley, NY.

Hargraves, P.E. 1988. Phytoplankton of Narragansett Bay. P.136-142. In R.G. Sheath and M.M. Harlin (eds.) *Freshwater and Marine Plants of Rhode Island*. Kendall/Hunt Pub. Co., Dubuque, Iowa.

Hicks, S.D. 1959. The physical Oceanography of Narragansett Bay. *Limnol. & Oceanogr.* 4:36-327.

- Hitchcock, G.L. and T.J. Smayda. 1977. The importance of light in the initiation of the 1972-1973 winter-spring diatom bloom in Narragansett Bay. *Limnol. & Oceanogr.* 22:126-131.
- Hulsizer, E.E. 1976. Zooplankton of lower Narragansett Bay, 1972-1974. *Chesapeake Sci.* 17:260-270.
- Jeffries, H.P. and W.C. Johnson. 1974. Seasonal distribution of bottom fishes in the Narragansett Bay area: Seven year variations in the abundance of winter flounder (*Pseudopleuronectes americanus*). *J. Fish Res. Bd. Can.* 31:1057-1066.
- Jeffries, H.P. and M. Terceiro. 1985. Cycle of changing abundances of the fishes of the Narragansett Bay area. *Mar. Ecol. Prog. Ser.* 25:239-244.
- Kremer, P. 1979. Predation by the ctenophore *Mnemiopsis leidyi* in Narragansett Bay, Rhode Island. *Estuaries.* 2:97-105.
- Martin, J.H. 1970. Phytoplankton-zooplankton relationships in Narragansett Bay IV. The seasonal importance of grazing. *Limol. & Oceanogr.* 15:413-418.
- McMaster, R.L. 1960. Sediments of Narragansett Bay systems and Rhode Island Sound, Rhode Island. *J. Sed. Petrol.* 30:249-274.
- Nixon, S.W., C.A. Oviatt, and S.S. Hale. 1976. Nitrogen regeneration and metabolism of coastal marine bottom communities. P. 269-283. In" J.M. Anderson and A. Macfaden (eds.) *The role of terrestrial and aquatic organisms in decomposition processes.* Blackwell Scientific Publications, London.
- Nowicki, B.L. and C.A. Oviatt. 1990. Are estuaries traps for anthropogenic nutrients? Evidence from estuarine mesocosms. *Mar. Ecol. Prog. Ser.* 66:131-146.
- Oviatt, C.A. and S.W. Nixon. 1973. The demersal fish of Narragansett Bay: an analysis of community structure and abundance. *Est. Coast. Mar. Sci.* 1:361-378.
- Oviatt, C.A., B.A. Buckley and S.W. Nixon. 1981. Annual phytoplankton metabolism in Narragansett Bay calculated from survey field measurements and microcosm observations. *Estuaries* 4: 167-175.
- Pilson, Michael E. Q. 1985. Annual cycles of nutrients and chlorophyll in Narragansett Bay, Rhode Island. *J. Mar. Res.* 43: 849-873.
- Pilson, M.E.Q. 1985. On the residence time of water in Narragansett Bay. *Estuaries.* 8:2-14.
- Pratt, D.M. 1965. The winter-spring diatom flowering in Narragansett Bay. *Limnol. & Oceanogr.* 10:173-184.
- Saila, S.B., J.M. Flowers, and M.T. Cannario. 1967. Factors affecting the relative abundance of *Mercenaria mercenaria* in the Providence River., R.I. *Proc. Natl. Shellfisheries Assoc.* 57:83-89.
- Seitzinger, S.P., S.W. Nixon, and M.E.Q. Pilson. 1989. Denitrification and N<sub>2</sub>O production in a coastal marine ecosystem. *Limnol. & Oceanogr.* 29:73-83.
- Sieburth, J. McN., Johnson, P.W. and Hargraves, P.E. 1988. Ultrastructure and ecology of *Aureococcus anophagefferens* gen. et sp. Nov. (Chrysophyceae): the dominant picoplankter during a bloom in Narragansett Bay, Rhode Island, summer 1985. *J. Phycol.* 24:416-25.
- Smayda, T.J. 1957. Phytoplankton studies in Lower Narragansett Bay. *Limnol. & Oceanogr.* 2:342-359.
- Wiseberg, R.H. and W. Sturges. 1976. Velocity observations in the west passage of Narragansett Bay: A partially mixed estuary. *Journal of Physical Oceanography.* 6:345-354.

**Recent:**

Bertness, M.D. 1999. The Ecology of Atlantic Shorelines. Sinauer Associates, Inc. Sunderland, MA. 417pp.

Keller, A. A., C. A. Oviatt, H. A. Walker, and J. D. Hawk. 1999. Predicted impacts of elevated temperature on the magnitude of the winter-spring phytoplankton bloom in temperate coastal waters: A mesocosm study. *Limnology and Oceanography* 44(2) 344-356.

Keller, A.A., G. Klein-MacPhee and J. St. Onge-Burns. 1999. Changes in abundance and distribution of ichthyoplankton in Narragansett Bay, RI - A response to changes in environmental quality? *Estuaries* Vol. 22 No. 1 p149-163.

Li, Y. and T. J. Smayda. 1998. Temporal variability of chlorophyll in Narragansett Bay, 1973-1990. *ICES J. of Mar. Sci.* 55:661:667.

Nixon, S.W. 1997. Prehistoric nutrient inputs and productivity in Narragansett Bay. *Estuaries*: 20(2):253-261.

Updated 6/65/2002  
Estuarine Research Federation  
[webmaster@erf.org](mailto:webmaster@erf.org)