

Brief Curriculum Vitae

Stephen S. Hale, Research Ecologist

U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, Rhode Island, USA 02882

Professional certificates:

Certified Senior Ecologist, Ecological Society of America, 2000 - present

Certified Fisheries Scientist, American Fisheries Society, 1984 - present

Research Interests: Marine benthic ecology (community dynamics, species distribution, nutrient cycles); Fish ecology (population and habitat assessment); Ecological assessments (statistical analyses, geospatial statistics); Landscape ecology; Ecological informatics (information management of ecological data including design, database management software, Geographic Information Systems)

Recent committees and appointments:

International

Board of Governors, Regional Association for Research on the Gulf of Maine. 2005-present.

Board of Governors, Gulf of Maine Ocean Data Partnership, 2004-present.

Co-Chair, Gulf of Maine Ecosystem Indicators Partnership, an international group implementing indicators for the environmental condition of the Gulf. 2005.

Organized US-Canadian workshops on Developing a Benthic Index for Coastal Areas of the Gulf of Maine, Portsmouth, NH, May 2004, and Wells, Maine, Nov 2007.

National

Associate Editor, American Fisheries Society (*North American Journal of Fisheries Management*), 2003-2006.

EPA's representative on the national Integrated Ocean Observing System's (IOOS) Data Management and Communications Steering Team, 2002-present.

Expert Team on Metadata and Data Discovery, Integrated Ocean Observing System, Ocean.US.

Selected recent publications:

Hale, S.S., J. Hollister. *In press*. Use of ecoinformatics in environmental monitoring programs. *Environmental Monitoring and Assessment*.

Hale, S.S., Heltshe, J.F. 2008. Signals from the benthos: Development and evaluation of a benthic index for the nearshore Gulf of Maine. *Ecological Indicators* 8:338-350.

USEPA. 2007. National Coastal Condition Report III. US Environmental Protection Agency, Office of Research and Development/Office of Water, Washington, DC.

Hale, S.S., J.F. Paul, and J.F. Heltshe. 2004. Watershed landscape indicators of estuarine benthic condition. *Estuaries* 27(2):284-296.

McDonald, M., et al. 2004. The U.S. Environmental Protection Agency's Environmental Monitoring and Assessment Program. Chapt. 29 in Wiersma, GB, editor. *Environmental Monitoring*, CRC Press, Washington, DC.

Kiddon J.A., J.F. Paul, H.W. Buffum, C.S. Strobel, S.S. Hale, D. Cobb, and B.S. Brown. 2003. Ecological condition of US Mid-Atlantic estuaries, 1997-98. *Marine Pollution Bulletin* 46:1224-1244.

Hale, S.S. 2002. Marine bottom communities of Block Island waters. In Paton, P.W., L.L. Gould, P.V.

- August, and A.O. Frost (eds.) *The Ecology of Block Island*. Rhode Island Natural History Survey, Kingston, RI.
- Hale, S.S., M.M. Hughes, C.J. Strobel, H.W. Buffum, J.L. Copeland, J.F. Paul. 2002. Coastal ecological data from the Virginian Biogeographic Province, 1990–1993. *Ecology* 83:2942 and *Ecological Archives* E083-057.
- McDonald, M., R. Blair, J. Dlugosz, S. Hale, S. Hedtke, D. Heggem, L. Jackson, K.B. Jones, B. Levinson, T. Olsen, S. Paulsen, J. Stoddard, K. Summers, and G. Veith. 2002. EPA's Environmental Monitoring and Assessment Program in the 21st century. *Hydrologic Science and Technology* 18:133–143.
- Hale, S.S. 2001. Coastal 2000 information management plan. App. B in Heitmuller, T. National Coastal Assessment. Quality Assurance Project Plan 2001-2004. EPA/620/R-01/002. U. S. Environmental Protection Agency, ORD, NHEERL, Gulf Breeze, FL.
- Hale, S.S. 2001. Species databases and the bioinformatics revolution. *RINHewS*, the Newsletter of the *Rhode Island Natural History Survey* 8(2):10–11.
- Hale, S.S. 2001. Coastal and marine databases. *Maritimes* 43(2):1–2.
- Hale, S.S., L.H. Bahner, and J.F. Paul. 2000. Finding common ground in managing data used for regional environmental assessments. *Environmental Monitoring and Assessment* 63:143–157.
- Hale, S.S., and H.W. Buffum. 2000. Designing environmental databases for statistical analyses. *Environmental Monitoring and Assessment* 64:55–68.