

Curriculum Vitae
Kenneth L. Heck, Jr.

Professional Titles: Chair, University Programs
Senior Marine Scientist III
Dauphin Island Sea Lab/MESC
101 Bienville Boulevard
Dauphin Island, AL 36528

Professor, Department of Marine Sciences
Assistant Director, Alabama Center for Estuarine Studies
University of South Alabama
Mobile, AL 36688

Education:

1976 Ph.D., Ecology, Florida State University
1973 M.S., Biology, Florida State University
1970 B.S., Biology, University of West Florida

Positions Held:

2002- Chair, University Programs, Dauphin Island Sea Lab
1997- Assistant Director, Alabama Center for Estuarine Studies
1992- Professor, Department of Marine Sciences, University of South Alabama
1989-1992 Professor, Department of Biological Sciences, University of South Alabama
1987-1996 Research Director, Marine Environmental Sciences Consortium, Dauphin Island Sea Lab
1986- Senior Scientist, Marine Environmental Sciences Consortium, Dauphin Island Sea Lab
1986-1989 Associate Professor, Department of Biological Sciences, University of South Alabama
1981-1986 Director, Patrick Center for Environmental Research, Division of Environmental
Research, Academy of Natural Sciences of Philadelphia
1981-1986 Associate Curator, Academy of Natural Sciences of Philadelphia
1981-1986 Adjunct Associate Professor, Department of Biology, University of Pennsylvania
1980-1981 Adjunct Assistant Professor, Department of Biology, University of Pennsylvania
1976-1980 Assistant Curator, Benedict Estuarine Laboratory, Division of Limnology and Ecology,
Academy of Natural Sciences of Philadelphia

Recent Awards:

1997- Outstanding Scholar, University of South Alabama

Editorial Positions:

Senior Sub-Editor, Marine Ecology Progress Series (1997-Present)
Senior Editorial Advisor, Marine Ecology Progress Series (1989-1997)
Associate Editor, Estuaries (1995-1998)
Book Review Editor, Systematic Zoology (1988-1990)

Referee Activities:***Journals:***

Ecology
Journal of Biogeography
Estuaries
Journal of the Fisheries Research Board of Canada
Marine Biology
Paleobiology
Transactions of the American Fisheries Society
Malacologia
Marine Ecology Progress Series
Marine and Freshwater Research
Limnology and Oceanography

Granting Agencies:

National Science Foundation
National Undersea Research Program
Sea Grant Programs
US Environmental Protection Agency
National Environmental Research Council (Great Britain)
Israel Science Foundation
Mobile Bay National Estuary Program

I usually review 10-15 manuscripts and 6-10 proposals annually.

Advisory Committees:

National Science Foundation: Biological Oceanography Panel (twice)
EPA Gulf of Mexico Program: Habitat Degradation Subcommittee
NOAA Coastal Oceans Program: Technical Advisory Panel
Gulf of Mexico Fishery Management Council: Coral Advisory Panel
Gulf of Mexico Fishery Management Council: Crustacean Stock Assessment Panel
Mobile Bay National Estuary Program: Habitat Loss Committee
Florida Bay Program: Oversight Panel

Recent Publications (22 of 90 publications):

- Able, K.W., M.P. Fahay, K.L. Heck, Jr., C.T. Roman, M.A. Lazzari and S.C. Kaiser. 2002. Seasonal distribution and abundance of fishes and decapod crustaceans in a Cape Cod estuary. *Northeastern naturalist*. 9: 285-302.
- Orth, R.J., K.L. Heck, Jr. and D.J. Tunbridge. 2002. Predation on seeds of the seagrass *Posidonia australis* in Western Australia. *Mar. Ecol. Prog. Ser.* 244: 81-88.
- Bologna, P.A.X. and K.L. Heck, Jr. 2002. Impact of habitat edges on density and secondary production of seagrass-associated fauna. *Estuaries*. 25: 1033-1044.
- Kirsh, K.D., J.F. Valentine and K.L. Heck, Jr. 2002. Parrotfish grazing in turtlegrass *Thalassia testudinum*: evidence for the importance of seagrass consumption in food web dynamics of the Florida keys national Marine Sanctuary. *Mar. Ecol. Prog. Ser.* 227: 71-85.
- Williams, S. W. and K. L. Heck, Jr. 2001. 'Seagrass Communities', Pp. 317-337 *In*: M. Bertness, S. Gaines and M. Hay (Eds.), *Marine Community Ecology*. Sinauer Press, Sunderland, Mass.
- Valentine, J. F., K. L. Heck, Jr., K. K. Kirsch and D. Webb. 2001. The role of leaf nitrogen content in determining turtlegrass (*Thalassia testudinum*) grazing by a generalist herbivore in the northeastern Gulf of Mexico. *J. Exp. Mar. Biol. Ecol.* 258: 65-86.
- Heck, K.L. Jr. and P.M. Spitzer. 2001. Post-settlement mortality of juvenile blue crabs: patterns and processes. *Proc. Blue Crab Mortality Symp.* 18-27. Gulf States Marine fisheries Commission, Ocean Springs, MS.
- Peterson, B.J., K.R. Thompson, J.H. Cowan and K. L. Heck, Jr. 2001. Comparison of predation pressure in temperate and subtropical seagrass habitats based on chronographic tethering. *Mar. Ecol. Progr. Ser.* 224: 77-85.
- Peterson, B. J. and K. L. Heck, Jr. 2001. Interactions between suspension feeding bivalves and seagrass assemblages - a facultative mutualism. *Mar. Ecol. Prog. Ser.* 213: 143-155.
- Aronson, R. B., K. L. Heck, Jr. and J. F. Valentine. 2001. Measuring predation with tethering experiments. *Mar. Ecol. Prog. Ser.* 214: 311-312.
- Beck, M. W., K. L. Heck, Jr., K. W. Able, D. L. Childers, D. B. Eggleston, B. M. Gillanders, B. Halpern, C. G. Hays, K. Hoshino, T. J. Minello, R. J. Orth, P. F. Sheridan and M. P. Weinstein. 2001. The identification, conservation and management of estuarine and marine nurseries for fish and invertebrates. *Bioscience* 51: 633-641.
- Heck, K. L., Jr., L. D. Coen and S. G. Morgan. 2001. Pre- and post-settlement factors as determinants of juvenile blue crab *Callinectes sapidus* abundance: results from the north-central Gulf of Mexico. *Mar. Ecol. Prog. Ser.* 222: 163-176.
- Spitzer, P. M., K. L. Heck, Jr. and J. Mattila. 2000. The effects of vegetation density on the relative growth rates of juvenile pinfish, *Lagodon rhomboides*, in Big Lagoon, Florida. *J. Exp. Mar. Biol. Ecol.* 244: 67-86.
- Heck, K. L. Jr., J. R. Pennock, J. F. Valentine, L. D. Coen and S. A. Sklenar. 2000. Effects of nutrient enrichment and large predator removal on seagrass ecosystems: an experimental assessment. *Limnol. Oceanogr.* 45: 1041-1057.
- Valentine, J. F., K. L. Heck, Jr. and K. D. Kirsch. 2000. The importance of the grazing pathway in seagrass food webs: a changing paradigm. *Biol. Mar. Medit.* 7: 290-293.
- Bologna, P. A. X. and K. L. Heck, Jr. 2000. Impact of pea crab parasitism on bay scallop reproductive potential. *Gulf and Caribbean Research Reports* 12: 43-46.
- Valentine, J. R. and K. L. Heck, Jr. 1999. Seagrass herbivory: evidence for the continual grazing of marine grasses. *Marine Ecology Progress Series* 176:291-302.

Bologna, P. A. X. and K. L. Heck, Jr. 1999. Macrofaunal associations with seagrass epiphytes: relative importance of trophic and structural characteristics. *J. Exp. Mar. Biol. Ecol.* 242: 21-39.

Peterson, B. J. and K. L. Heck, Jr. 1999. The potential for suspension feeding bivalves to increase seagrass productivity. *J. Exp. Mar. Biol. Ecol.* 240: 32-52.

Mattila, J., G. Chaplin, M. R. Eilers, K. L. Heck, Jr., J. P. O'Neal and J. F. Valentine. 1999. Abundance and composition of fish and macroinvertebrates of a *Zostera marina* bed and nearby unvegetated sediments in Damariscotta River, Maine (USA). *J. Sea Research* 41: 321-332.

Wallace, R. K., K. L. Heck, Jr. and M. VanHoose. 1999. Oyster restoration in Alabama. Pp. 101-106 *In*: R. Luckenbach, R. Mann and J. A. Wesson (Eds.), *Oyster Reef Habitat Restoration: A synopsis and synthesis of approaches*. Mar. Sci. Press, Gloucester Point, VA.

Bologna, P. A. X. and K. L. Heck, Jr. 1999. Differential predation and growth rates of bay scallops within a seagrass habitat. *J. Exp. Mar. Biol. Ecol.* 239: 299-314.

**Selected Funding Received
Kenneth L. Heck, Jr.**

I. Recent Grants (16 of 45 grants)

Role	Years	Source	Amount
Principal Investigator	1997-1998	EPA (Gulf of Mexico Program)	\$30,000
Principal Investigator	1997-1999	ADCNR	\$180,000
Co-Principal Investigator	1997-1998	EPA (Mobile Bay National Estuary Program)	\$61,590
Co-Principal Investigator	1997-1999	NOAA (NMFS)	\$33,000
Principal Investigator	1997-1999	EPA	\$188,000
Principal Investigator	1999-2000	EPA (Supplement)	\$32,000
Co-Principal Investigator	1999-2000	NOAA (NURC)	\$40,000
Principal Investigator	1999-2001	EPA (ACES)	\$261,000
Co-Principal Investigator	1999-2001	NCEAS	\$88,000
Co-Principal Investigator	2000-2001	EPA (GOMP)	\$53,000
Co-Principal Investigator	2000-2001	MASGC (Student Award)	\$5,000
Principal Investigator	2000-2002	EPA (ACES)	\$52,327
Co-Principal Investigator	2001-2002	EPA (ACES)	\$105,000
Co-Principal Investigator	2001-2002	MASGC (Student Award)	\$5,000
Co-Principal Investigator	2001-2003	Mellon Foundation	\$180,000
Co-Principal Investigator	2001-2003	NOAA (MARFIN)	\$183,000