

Biographical Sketch- Richard W. Heard

Professional Preparation

University of Georgia- BS in Zoology, 1962

University of Georgia- MS in Zoology, 1968

University of Southern Mississippi- Ph D in Biology, 1976

Appointments

1998-present: Professor, Department of Coastal Sciences, University of Southern Mississippi

1988-present: Research Associate, Department of Invertebrate Zoology, Smithsonian Institution, National Museum of Natural History.

1986-1997: Senior Researcher, Section Head (Invertebrate Zoology), Gulf Coast Research Laboratory, Ocean Springs, MS

1980-85: Associate Biologist (Invertebrate Zoology), Gulf Coast Research Laboratory

1976-78: Research Associate, Instructor, Curator (Marine Invertebrates), University of Alabama Marine Science Program, Dauphin Island, AL

1973-75: Assistant Biologist, Gulf Coast Research Laboratory

1972: Biologist, Skidaway Institute of Oceanography, Savannah, GA

Benthic studies in relation to Sturgeon foraging habitat conducted or to be conducted within the last 3 years:

U.S. Fish and Wildlife Service-Katrina funds and USFWS Section 6 Funds (Contract 2007-09), "Gulf sturgeon, *Acipenser oxyrinchus desotoi*, in the Pascagoula drainage, Mississippi: post-Hurricane Katrina assessment of habitat and movement of the juvenile cohort" \$133,000 (with Mark Peterson, WT Slack, K. Dillon),

NOAA, NMFS Protected Species Cooperative Conservation Program (Contract # 2010-13), "Identifying feeding habitat for and movement of the juvenile/sub-adult cohort of the Gulf Sturgeon, *Acipenser oxyrinchus desotoi*, in the Pascagoula River estuary, Mississippi." [to be funded in August 2010] (with Mark Peterson, PI)

Selected Publications & Reports

Identification Guides:

Heard, R. W. 1982. Guide to common tidal marsh invertebrates of the northeastern Gulf of Mexico. Mississippi-Alabama Sea Grant Consortium No. MASGP-79-004 82 pp.

Heard, R. W., T. Hansknecht, and K. Larsen. 2004. An illustrated identification guide to Tanaidacea (Crustacea: Peracarida) occurring in depths of less than 200 m." Final Supplemental Report, Florida Department of Environmental Protection, Tallahassee, Florida 163 p..

- Heard, R. W., W. W. Price, R. King, and D. Knott. (2006). Guide to the identification of the Mysida of the South Atlantic Bight.—NOAA Professional Paper NMFS 4:1-37.
- Heard, R. W., D. Roccatagliata, and I. Petrescu. 2007. Guide to Florida Cumacea (Crustacea: Malacostraca: Peracarida) occurring in depths of less than 100 m. Florida Department of Environmental Protection, Tallahassee, Florida, 186 p.
- Heard, R. W., R. A. King, D. Knott, and S. DeVictor (2008). A taxonomic guide to the thalassinidean shrimps of the South Atlantic Bight. —NOAA Professional Paper NMFS.
- Heard, R. W., D. Roccatagliata, and I. Petrescu. 2007. Guide to Florida Cumacea (Crustacea: Malacostraca: Peracarida) occurring in depths of less than 100 m. Florida Department of Environmental Protection, Tallahassee, Florida, 186 p.

Selected papers

- Heard, R. W. & W.B. Sikora. 1972. A new species of *Corophium* Latreille, 1806 (Crustacea: Amphipoda) from Georgia brackish waters with some ecological notes. Proceedings of the Biological Society of Washington 84(55):467-476.
- Sikora W. B., R. W. Heard & M.D. Dahlberg. 1972. The occurrence and food habits of two species of hake, *Urophycis regius* and *U. floridanus* in Georgia estuaries. Transactions of the American Fisheries Society 101(3):513-525.
- Sikora W. B., R. W. Heard & M.D. Dahlberg. 1972. The occurrence and food habits of two species of hake, *Urophycis regius* and *U. floridanus* in Georgia estuaries. Transactions of the American Fisheries Society 101(3):513-525.
- Stickney, R., R., G. Taylor & R. W. Heard.. 1974. Food habits of Georgia Estuarine Fishes. I. Four species of flounder (Pleuronectiformes Bothidae).-Fishery Bulletin 72(2):515-525.
- Heard, R. W. 1975. Notes on the food of the white catfish, *Ictalurus catus* (L.) from Georgia estuarine waters. Quarterly Journal of the Florida Academy of Sciences 38(1):20-28.
- Maturo, F. J. S., Jr. S. E. Stancyk & R. W. Heard. 1976. Phoronids from the east coast of the United States.- Bulletin of Marine Science 26(4):576-584.
- Howard, J. D., T.V. Mayou & R. W. Heard. 1977. Biogenic sedimentary structures formed by rays.-Journal of Sedimentary Petrology 47(1):339-346.
- Overstreet, R. M. & R. W. Heard. 1978. Food of the red drum, *Sciaenops ocellata*, from Mississippi Sound.- Gulf Research Reports 6(2):131-135.
- Overstreet, R. M. & R. W. Heard. 1978. Food of the Atlantic croaker, *Micropogonias undulatus*, from Mississippi Sound and the Gulf of Mexico.- Gulf Research Reports 6(2):145-152.
- Stuck, K. C., H.M. Perry & R. W. Heard.. 1979 (1980). Records and range extensions of Mysidacea from coastal and shelf waters of the eastern Gulf of Mexico.- Gulf Research Reports 6(3):239-248.
- Heard, R. W. 1979 (1980). Notes on the genus *Probythinella* Thiele, 1928 (Gastropoda: Hydrobiidae) in the coastal waters of the northern Gulf of Mexico and the taxonomic status of *Vioscalba louisianae* Morrison, 1965.- Gulf Research Reports 6(3):309-312.
- Kurata, H., R. W. Heard & J. W. Martin. 1981. Larval development under laboratory conditions of the xanthid mud crab *Eurytium limosum* (Say, 1818) (Brachyura: Xanthidae) from Georgia.- Gulf Research Reports 7(1):19-25.

- Overstreet, R. M. & R. W. Heard. 1982. Food contents of six commercial fishes from Mississippi Sound.- *Gulf Research Reports* 7(2):137-149.
- Heard, R. W. 1986. Pontonine shrimps (Decapoda: Caridae: Palaemonidae) of the northwestern Atlantic. I. The genus *Neopontonides* Holthuis, 1951 with the description of *N. chacei* n. sp. and the erection of *Pseudopontonides* n. gen. to receive *N. principis* Ciraes, 1980.- *Journal of Crustacean Biology* 6(3):471-484.
- Price, W. & R. W. Heard. 1995. Observations on the genus *Mysidopsis* Sars, with description of *Americamysis*, new genus, and two new species *A. alleni* and *A. stucki*.- *Proceedings of the Biological Society of Washington* 107(4): 680-698.
- Rasmussen, E. & R. W. Heard. 1995. Observations on extant populations of the softshell clam, *Mya arenaria* Linne, 1758 (Bivalvia: Myidae), from Georgia (USA) estuarine habitats. - *Gulf Research Reports* 9(2):85-96.
- Brown, S., G. Gaston, C. R. Rakocinski, R. W. Heard & K Summers. 1995. Trophic structure of macrobenthic communities in northern Gulf of Mexico estuaries.- *Gulf Research Reports* 9(2):111-116.
- Rakocinski, C. R. Sara LeCroy, Jerry McLelland, R. W. Heard and T. Simmons. 1996. Responses by benthic macroinvertebrate assemblages to extensive beach restoration at Perdido Key, Florida, U.S. A.- *Journal of Coastal Research* 12:326-353.
- Brown, S. S., G. R. Gaston, C.F. Rakocinski, R. W. Heard. 2000. Macrobenthic trophic structure responses to environmental factors and sediment contaminants in northern Gulf of Mexico estuaries.- *Estuaries* 23(3):411-424.
- Rakocinski, C. F., S. E. LeCroy, J. A. McLelland & R. W. Heard. 2000. Sustained macrobenthic effects of Hurricanes Opal and Erin within the Gulf Islands National Seashore.- *Gulf and Caribbean Research* 12:19-30.
- Foster, J. M., B. P. Thoma, and R. W. Heard. 2004. Stomatopoda (Crustacea: Malacostraca) from the inshore waters of the northern Gulf of Mexico (Suwannee River, FL to Port Aransas, TX).-*Gulf and Caribbean Research* 16(1):49-58.
- Ross, S. T., W. T. Slack, R. J. Heise, M. A. Dukgo, H. Rogillio, D. R. Bowen, P. Mickle, R. W. Heard. 2009. Eustuarine and coastal habitat use of Gulf Sturgeon (*Acipenser oxyrinchus desotoi*) in North-Central Gulf of Mexico.- *Estuaries and Coasts* 1-15.
- Foster, J. M., B. Thoma, and R. W. Heard. Range extensions and review of the caprellid amphipods (Crustacea: Amphipoda: Caprellidae) from the shallow coastal waters from the Suwannee River, Florida, to Port Aransas, Texas, with an illustrated key.- *Gulf and Caribbean Research* 16(2): 161-175.
- Heard, R. W. and G. Anderson. 2009. Tanaidacea of the Gulf of Mexico of the Gulf of Mexico *in* Felder, D. L and D.K. Camp, editors, *Gulf of Mexico—Its origins, waters, and biota*. Biodiversity, Chapter 54: 1930-1963.

Synergistic Activities

Richard Heard has authored or co-authored over 160 publications dealing with marine invertebrates and fishes, including the descriptions of several new genera and a variety of new species of stomatopods, mysids, cumaceans, tanaidaceans, isopods, amphipods, and decapods. Over the past 30 years he has been involved with the identification of invertebrates collected from the Gulf of Mexico (GoM) and Atlantic coasts of the southeastern United States in conjunction with several large regional studies conducted by the Bureau of Land Management (BLM), Mineral Management Service (MMS), National Oceanographic and Atmospheric Administration (NOAA), and Environmental Protection Agency (EPA) (EMAP for Louisiana and West Indian

Provinces). During the past 15 years, also he participated in five benthic studies related to Gulf sturgeon foraging areas in the northern (GoM) and is a co-author on a recently published article on the ecology this species (see Ross et al. 2009).

Graduate advisor

Dr. Heard has served as the major advisor for over 26 masters and doctoral students, and he has served the graduate committees for more than 50 students.