

Pamela J. Schofield

U.S. Geological Survey
Center for Aquatic Resources Studies
Florida Integrated Science Center
7920 NW 71st Street, Gainesville, FL 32653
Phone: (352) 264.3530
Email: pam_schofield@usgs.gov



EDUCATION

- 2003 Ph.D. Department of Biological Sciences, University of Southern Mississippi, Hattiesburg, MS
- 1997 M.Sc. Department of Zoology, University of Florida, Gainesville, FL
- 1994 B.Sc. Department of Zoology, University of Florida, Gainesville, FL

AREAS OF SPECIALIZATION

Aquatic ecology, including effects of environmental alterations on physiology, behaviour, feeding, predator-prey interactions, and habitat selection. Special interest in ecology of non-indigenous species. Experience in marine, estuarine and freshwater habitats.

PROFESSIONAL EXPERIENCE

- 2000 – present **Research Biologist**, U.S. Geological Survey, Gainesville, FL
- 1998 – 2000 **Graduate Research Assistant**, Department of Biological Sciences, University of So. Mississippi, Hattiesburg, MS
Position funded by MS Department of Wildlife, Fisheries & Parks
- 1994-1998 **Laboratory Instructor**, Department of Zoology, University of Florida, Gainesville, FL
- Jan-Aug 1994 **Assistant to Collection Manager**, Ichthyology Department, Florida Museum of Natural History, Gainesville, FL

PEER-REVIEWED PUBLICATIONS

- Schofield, P.J.**, J.D. Williams, L.G. Nico, P.L. Fuller and M.R. Thomas. 2005. Foreign Nonindigenous Carps and Minnows (Cyprinidae) in the United States: A Guide to their Identification, Distribution, and Biology. U.S. Geological Survey Scientific Investigations Report 2005-5041, Tallahassee, Florida. 103 pp.
- Schofield, P.J.** & A.B. Powell. 2004. Cichlidae. *In*: Richards, W. J., Ed. Guide to the Identification of the Early Life History Stages of Ichthyoplankton of the Western Central Atlantic. U.S. Department of Commerce. In Press, but available online at: <http://www4.cookman.edu/noaa/ichthyoplankton/Cichlidae.pdf>

- Schofield, P.J.** 2005. Predation vulnerability of two gobies (*Microgobius gulosus*; *Gobiosoma robustum*) is not related to presence of seagrass. *Florida Scientist* 68(1): 25-34.
- Schofield, P.J.** 2004. Influence of salinity, competition and food supply on the growth of *Gobiosoma robustum* and *Microgobius gulosus* from Florida Bay, U.S.A. *Journal of Fish Biology* 64: 820-832.
- Schofield, P.J.** 2003. Salinity tolerance of two gobies (*Microgobius gulosus*, *Gobiosoma robustum*) in Florida Bay (USA). *Gulf of Mexico Science* 21(1): 86-91.
- Schofield, P.J.** 2003. Habitat selection of two gobies (*Microgobius gulosus*, *Gobiosoma robustum*): influence of structural complexity, competitive interactions and presence of a predator. *Journal of Experimental Marine Biology and Ecology* 288(1): 125-137.
- Schofield, P.J.** & S.T. Ross. 2003. Habitat selection of the channel darter, *Percina* (*Cottogaster*) *copelandi*: a surrogate for the imperiled pearl darter, *Percina aurora*. *Journal of Freshwater Ecology* 18(2): 249-257.
- Chapman, L.J., C.A. Chapman, **P.J. Schofield**, J.P. Olowo, L.S. Kaufman, O. Seehausen & R. Ogutu-Ohwayo. 2003. Fish faunal resurgence in Lake Nabugabo, East Africa. *Conservation Biology* 17(2): 500-511.
- Schofield, P.J.** and L.J. Chapman. 2000. Hypoxia tolerance of introduced Nile perch: Implications for survival of indigenous fishes in the Lake Victoria basin. *African Zoology* 35(1): 35-42.
- Schofield, P.J.** and L.J. Chapman. 1999. Interactions between Nile perch, *Lates niloticus*, and other fishes in Lake Nabugabo, Uganda. *Environmental Biology of Fishes* 55(4): 343-358.
- Schofield, P.J.** and G.H. Burgess. 1997. *Etmopterus robinsi*: A new species of deep-water dogshark (Elasmobranchii, Etmopteridae) from the Caribbean and Western Atlantic with a redescription of *E. hillianus*. *Bulletin of Marine Science* 60(3): 1060-1073.
- IN PREP**
- Schofield, P.J.** & L.G. Nico. Salinity tolerance of introduced swamp eels: I. Implications for range expansion in south Florida. In prep.
- Schofield, P.J.** & L.G. Nico. Salinity tolerance of introduced swamp eels: II. Inter-population variation relative to genetically distinct lineages. In prep.
- Dennis, G.D. & **P. J. Schofield**. Ichthyoplankton of northeast Florida Bay. In prep.
- Schofield, P.J.**, T.M. Alvarez, P.C. Darby & R.E. Bennetts. Factors influencing the selection of vegetation used for egg-laying by Florida apple snails, *Pomacea paludosa*. In prep.
- Schofield, P.J.** & L.G. Nico. Potential for use of rotenone as a control measure against the invasive Asian swamp eel, *Monopterus* sp. c.f. *albus*. In prep.
- OTHER PUBLICATIONS**
- Schofield, P.J.** 2003. Factors affecting the distribution and densities of two gobies (*Microgobius gulosus* and *Gobiosoma robustum*) in a lagoonal estuarine system (Florida Bay, USA). Doctoral dissertation, Department of Biological Sciences, University of Southern Mississippi.

- Schofield, P.J.**, S.T. Ross & P. Rakes. 1999. Conservation of the pearl darter, *Percina aurora*: habitat selection and development of a protocol for larval rearing, Year II. Mississippi Department of Wildlife, Fisheries and Parks Wildlife Heritage Program, Jackson, MS. Museum Technical Report No. 74.
- Ross, S.T., **P.J. Schofield** & P. Rakes. 1998. Conservation of the pearl darter, *Percina aurora*: habitat selection and development of a protocol for larval rearing. Mississippi Department of Wildlife, Fisheries and Parks Wildlife Heritage Program, Jackson, MS. Museum Technical Report No. 68.
- Schofield, P.J.** and P. Fuller. 2004. *Anguilla marmorata*. Nonindigenous Aquatic Species Database, Gainesville, FL.
<http://canal.er.usgs.gov/queries/SpFactSheet.asp?speciesID=2291> Revision Date: 11/10/04
- Schofield, P.J.** and P. Fuller. 2004. *Scatophagus argus*. Nonindigenous Aquatic Species Database, Gainesville, FL.
<http://canal.er.usgs.gov/queries/SpFactSheet.asp?speciesID=2291> Revision Date: 11/10/04

PRESENTATIONS

- A.J. Benson, L.G. Nico, W.R. Courtenay, Jr. and **P.J. Schofield**. 2004. Tools for Assessing Risks: Ongoing Efforts to Evaluate Potential Harm of Introduced Aquatic Organisms. Poster presented at the 13th International Conference on Aquatic Invasive Species, Ennis, County Clare, Ireland, September 2004.
- Schofield, P.J.** 2003. Seagrass presence structures densities and distributions of two estuarine gobies: laboratory and field evidence. Poster presented at the Estuarine Research Foundation biennial meeting in Seattle, WA, September 2003.
- Schofield, P.J.**, L. G. Nico & M. E. Brown. 2003. Non-native Asian swamp eels (Fam: Synbranchidae; *Monopterus*) established in the canal systems of South Florida: Potential for range expansion into estuarine habitats. Poster presented at the Estuarine Research Foundation biennial meeting in Seattle, WA, September 2003.
- Schofield, P.J.**, L. G. Nico & M. E. Brown. 2003. Salinity tolerance of non-native swamp eels (Synbranchidae) in Florida: contrast among populations with different origins. Poster presented at the American Society of Ichthyologists and Herpetologists annual meeting, Manaus, Brasil, June 2003.
- Schofield, P.J.** An ecological history of the Everglades-Florida Bay watershed. Invited speaker, Bennett Symposium "Headwaters to the Sea: Evolution and conservation of fish assemblages in large rivers" Hattiesburg, MS, September 2003.
- Schofield, P.J.** Factors affecting the distribution of two gobies (*Microgobius gulosus*, *Gobiosoma robustum*) in Florida Bay, U. S. A. Poster presented at the Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, Palm Harbor, FL, April 2003.
- Schofield, P.J.** & L.G. Nico. Salinity tolerance of introduced swamp eels: Implications for range expansion in south Florida. Poster presented at the Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, Palm Harbor, FL, April 2003

Chapman, L.J., C.A. Chapman, J.P. Olowo, **P.J. Schofield** & L.S. Kaufman. Biodiversity lost and found: The resurgence of indigenous fishes in the Lake Victoria region. Poster, Ecological Society of America, August 2000.

Schofield, P.J. & S.T. Ross. Habitat selection of the channel darter, *Percina copelandi* – a surrogate for the imperiled pearl darter, *Percina aurora*. Oral presentation, Association of Southeastern Biologists, Chattanooga, TN, April, 2000.

Ross, S.T. & **P.J. Schofield**. Habitat and coastal fish populations: a review of the connections. Oral presentation, Biennial International Estuarine Research Federation conference, New Orleans, LA, September, 1999.

Schofield, P.J. Effects of environmental heterogeneity on physiology, feeding ecology and biological interactions of two gobies (*Microgobius gulosus* and *Gobiosoma robustum*): a research proposal. Poster, Florida Bay Science Conference, Miami, FL, May 1998

Ross, S.T. & **P.J. Schofield**. Habitat and coastal marine fisheries: a review of the connections. Keynote address, Mississippi/Louisiana Chapters of the American Fisheries Society, Bay St. Louis, MS, February, 1998.

Schofield, P.J. & L.J. Chapman. Wetland ecotones: potential for faunal refugia in the Lake Victoria basin; Poster, Ecological Society of America/Society for Conservation Biology joint meeting, Providence, RI, August 1996.

Schofield, P.J. Feeding ecology of Nile perch (*Lates niloticus*); research proposal and preliminary results. Oral presentation, symposium on current research in the Lake Victoria basin, Fisheries Research Institute of Uganda, Jinja, Uganda, July 1995.

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

Member: American Society of Ichthyologists and Herpetologists
Estuarine Research Foundation
Society for Conservation Biology
Southeastern Fishes Council
The Nature Conservancy

PROFESSIONAL CERTIFICATIONS

National Association of Underwater Instructors Openwater I SCUBA (Aug 1984)
U.S. Fish and Wildlife Service Motorboat Operator Certification Course (Feb 2001)

OTHER

Served as reviewer for the following journals:
Acta Oecologia
Journal of Fish Biology
Ophelia

AWARDS

U. S. Geological Society STAR Award, 2003