

CURRICULUM VITAE

Jeffrey E. Hill

PRESENT ADDRESS

Tropical Aquaculture Laboratory
Department of Fisheries and Aquatic Sciences
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EDUCATION

- 2003 **Ph.D.** Department of Fisheries and Aquatic Sciences, University of Florida, Gainesville, Florida
- Dissertation: Effects of introduced peacock cichlids *Cichla ocellaris* on native largemouth bass *Micropterus salmoides* in southeast Florida
- 1998 **M.S.** Department of Fisheries and Aquatic Sciences, University of Florida, Gainesville, Florida
- Thesis: Estimate of gape limitation on forage size for the peacock cichlid, *Cichla ocellaris*, an exotic fish established in Florida
- 1991 **B.S.** Department of Biology, University of North Alabama, Florence, Alabama. (Major in Biology and Minor in Geography)

EMPLOYMENT

- 2006-present **Assistant Professor**, Department of Fisheries and Aquatic Sciences, University of Florida; located at Tropical Aquaculture Laboratory, Ruskin, Florida
- 2004-2005 **Adjunct Faculty—Ichthyology**, Hillsborough Community College, Tampa, Florida
- 2003-2005 **Post-Doctoral Associate**, Tropical Aquaculture Laboratory, University of Florida, Ruskin, Florida

Curriculum Vitae—J. E. Hill

- 1998-2002 **Graduate Assistant and Doctoral Fellow** (Research, Teaching, and Extension), Department of Fisheries and Aquatic Sciences, University of Florida, Gainesville, Florida
- 1997-2001 **Volunteer Field Assistant**, Florida-Caribbean Science Center, U.S. Geological Survey, Gainesville, Florida
- 1995-1997 **Independent Aquaculture Consultant**, Hawthorne, Florida
- 1993-1994 **Teacher, Marine Biology**, Princeton Christian School, Princeton, Florida
- 1992-1995 **President and CEO**, Redland Research, Inc., Goulds, Florida
- 1992 **Biologist**, Redland Research, Inc., Goulds, Florida
- 1990 **Student Teaching Assistant**, Field Zoology, University of North Alabama, Florence, Alabama
- 1988 **Museum Volunteer**, Florida Museum of Natural History, Gainesville, Florida

HONORS AND AWARDS

- 2004 Best Fisheries Paper Honorable Mention, Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Hilton Head, South Carolina
- 2001 Best Student Paper Runner-up, Florida Chapter, American Fisheries Society (paper presented at Southern Division, American Fisheries Society Mid-year Meeting, Jacksonville, Florida)
- 2000, 2001 Ryan Kelly Memorial Scholarship, International Women's Fishing Association
- 2000 Outstanding Graduate Student Award, Department of Fisheries and Aquatic Sciences, University of Florida
- 2000 Roger Rottman Memorial Scholarship, Florida Chapter, American Fisheries Society
- 1998-2002 Dean's Fellowship for Graduate Research (Doctoral), University of Florida, Gainesville, Florida

Curriculum Vitae—J. E. Hill

- 1998 Outstanding Research Award Nominee, Masters Thesis Category,
Department of Fisheries and Aquatic Sciences, Institute of Food and
Agricultural Sciences, University of Florida, Gainesville, Florida
- 1985 National Merit Scholarship

PROFESSIONAL ACTIVITIES

Committee Memberships

- 2005-present Detection and Monitoring Committee, federal Aquatic Nuisance Species Task Force
- 2005-present Fish Working Group, Detection and Monitoring Committee, Aquatic Nuisance Species Task Force
- 2004-present Research Committee, Aquatic Nuisance Species Task Force
- 2004-present Risk Assessment Sub-working Group, Florida Invasive Species Working Group
- 2003-present Transgenic Aquatic Species Task Force, Division of Aquaculture, Florida Department of Agriculture and Consumer Services

Organizational Activities

- 2005 Moderator for Fish Ecology Session, Joint Meeting of Ichthyologists and Herpetologists, Tampa, Florida.
- 2001 Student Workshop Chairman, Southern Division American Fisheries Society Mid-Year Meeting, Jacksonville, Florida.
- 2001 Moderator for Endangered and Introduced Fishes Session, Southern Division American Fisheries Society Mid-Year Meeting, Jacksonville, Florida.
- 1999 Poster Judge, Florida Chapter, American Fisheries Society Annual Meeting, Brooksville, Florida.

Society Memberships

- American Fisheries Society (AFS)
Florida Chapter, AFS
Fish Culture Section, AFS
Introduced Fish Section, AFS
Southern Division AFS
American Society of Ichthyologists and Herpetologists

Florida Academy of Sciences
World Aquaculture Society
United States Aquaculture Society

PUBLICATIONS

Peer-Reviewed Publications

- Hill, J. E.**, and C. A. Watson. In revision. Diet of the nonindigenous Asian swamp eel in tropical ornamental aquaculture ponds in west central Florida. *North American Journal of Aquaculture*.
- Thompson, T. M., Jr., C. E. Cichra, W. J. Lindberg, J. A. Hale, and **J. E. Hill**. Accepted. Distribution and habitat selection of largemouth bass in a Florida quarry lake. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 59.
- Crosby, T. C., **J. E. Hill**, C. A. Watson, R. P. E. Yanong, and R. Strange. In press. Effects of tricaine methansulfonate, Hypno, Aquacalm, quinaldine, and salt on plasma cortisol levels following acute stress in three spot gourami *Trichogaster trichopterus*. *Journal of Aquatic Animal Health*.
- Watson, C. A., and **J. E. Hill**. In press. Design criteria for recirculating, marine ornamental production systems. *Aquacultural Engineering*.
- Yanong, R. P. E., **J. E. Hill**, C. J. Daniels, and C. A. Watson. In press. Efficacy of 17- α -methyltestosterone for expression of male secondary sexual characteristics in the swordtail *Xiphophorus hellerii*. *North American Journal of Aquaculture*.
- Hill, J. E.**, J. D. Baldwin, J. S. Graves, R. Leonard, J. F. F. Powell, and C. A. Watson. 2005. Preliminary observations of topical gill application of reproductive hormones for induced spawning of a tropical ornamental fish. *North American Journal of Aquaculture* 67:7-9.
- Hill, J. E.**, and C. E. Cichra. 2005. Eradication of a reproducing population of convict cichlids, *Cichlasoma nigrofasciatum* (Cichlidae), in north-central Florida. *Florida Scientist* 68:65-74.
- Hill, J. E.** 2004. A record of a nonindigenous fish, the blue catfish (*Ictalurus furcatus*: Ictaluridae), illegally introduced into the Suwannee River, Florida. *Florida Scientist* 67:254-257.
- Hill, J. E.**, L. G. Nico, C. E. Cichra, and C. R. Gilbert. 2004. Prey vulnerability to peacock cichlids and largemouth bass based on predator gape and prey body depth. *Proceedings of the Annual Conference Southeastern Association of Fish and Wildlife Agencies* 58:47-56.

Peer-Reviewed Agency Special Publications

Hill, J. E., and C. E. Cichra. 2005. Biological synopsis of five selected Florida centrarchid fishes with an emphasis on the effects of water level fluctuations. Special Publication SJ2005-SP3. St. Johns River Water Management District, Palatka, Florida.

Hill, J. E., and C. E. Cichra. 2002. The effects of water levels on fish populations. Special Publication SJ2002-SP1. St. Johns River Water Management District, Palatka, Florida.

Hill, J. E., and C. E. Cichra. 2002. Annotated bibliography for water level effects on fish populations. Special Publication SJ2002-SP2. St. Johns River Water Management District, Palatka, Florida.

Reports

Hill, J. E., and C. E. Cichra. 2005. Biological synopsis of six selected Florida non-game, littoral fishes with an emphasis on the effects of water level fluctuations. Final report. St. Johns River Water Management District, Palatka, Florida.

Yanong, R., C. Daniels, and **J. Hill**. 2004. Preliminary studies into water stability of Pyceze and toxicity of Pyceze in select species of ornamental fish. Final Report. UF/IFAS Tropical Aquaculture Laboratory, Ruskin, Florida. Submitted to Novartis Animal Vaccines Ltd, UK.

DeMayo, S., C. Watson, **J. E. Hill**, and M. Balaban. 2003. Comparative analysis of four flake diets' performance in four species of freshwater ornamental fish. Final Report. UF/IFAS Tropical Aquaculture Laboratory, Ruskin, Florida. Submitted to Hartz Mountain Corporation, Bloomfield, New Jersey.

Cichra, C. E., S. Fitz-Coy, J. Sowards, and **J. Hill**. 2002. An assessment to determine the biological response of Best Management Practices in the Tri-County Agricultural Watersheds, Phase IV (January-December 2000), Project #97W182. Final Report. St. Johns River Water Management District, Palatka, Florida.

Cichra, C. E., S. Fitz-Coy, J. Sowards, and **J. Hill**. 2002. An assessment to determine the biological response of Best Management Practices in the Tri-County Agricultural Watersheds, Phase III (January-December 1999), Project #97W182. Final Report. St. Johns River Water Management District, Palatka, Florida.

Cichra, C. E., J. Sowards, **J. E. Hill**, and D. E. Canfield. 2002. Assessment of the effectiveness of Florida Aquaculture Best Management Practices (BMPs) for sturgeon. Florida Fish and Wildlife Conservation Commission, Sturgeon Research Program, Tallahassee, Florida.

Cichra, C. E., S. Fitz-Coy, J. Sowards, and **J. Hill**. 2001. An assessment to determine the biological response of Best Management Practices in the Tri-County Agricultural

Watersheds, Phase II (January-December 1998), Project #97W182. Final Report. St. Johns River Water Management District, Palatka, Florida.

Peer-Reviewed Extension Publications

Watson, C. A., **J. E. Hill**, and D. B. Pouder. 2004. Species profile: koi and goldfish. Publication No. 7201. Southern Regional Aquaculture Center, Stoneville, Mississippi. <http://srac.tamu.edu/7201fs.pdf>.

Hill, J. E. 2002. Exotic fishes in Florida. *LakeLines*, North American Lake Management Society. 22(1):39-43. http://www.nalms.org/bkstore/1122-1_hill.pdf.

Hill, J. E., and R. P. E. Yanong. 2002. Ornamental fish commonly cultured in Florida. University of Florida IFAS Extension Circular FA054. <http://edis.ifas.ufl.edu/pdffiles/FA/FA05400.pdf>.

Newsletter Articles

Hill, J. E. 2004. Swamp eel diet study update. *Florida Fish Farmer: The Florida Tropical Fish Farms Association Newsletter*. Nov/Dec 2004:3.

Hill, J. 2002. Exotic fish removed from UF campus pond. *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 6(1):4.

Hill, J. 2002. Reply to Letter to Editor (armored suckermouth catfish). *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 6(1):7.

Hill, J. 2001. Native and exotic catfish in Florida, Part II. *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 5(2):6-7.

Hill, J. 2001. Native and exotic catfish in Florida, Part I. *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 5(1):7.

Cichra, C., and **J. Hill**. 2000. Use of hybrid sunfish in recreational fishing ponds in Florida. *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 4(4):7.

Hill, J. 2000. Exotic fishes in Florida: Spotted tilapia. *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 4(3):6.

McGee, M., C. Cichra, and **J. Hill**. 2000. Fish handling and transport. *Water Works: Highlighting UF/IFAS Aquaculture, Fisheries & Aquatic Sciences, and Pond Management Programs* 4(2):6.

- Cichra, C., J. Sowards, **J. Hill**, and T. Glancy. 1999. Deep pond with diseased fish, high ammonia, lots of stunted bluegill—(a Union County case history). Union County Farm Notes, Union County Extension Service, UF/IFAS Cooperative Extension Service. June 1999:3-4, 8-9.
- Cichra, C., J. Sowards, **J. Hill**, and T. Glancy. 1999. Shallow pond with repeated stocking, wildlife predation, few “keeper” fish—(a Union County case history). Union County Farm Notes, Union County Extension Service, UF/IFAS Cooperative Extension Service. June 1999:4-5, 10.

PRESENTATIONS

Invited Seminars and Symposia

- Hill, J. E.** 2005. UF Tropical Aquaculture Laboratory program highlights. UF/IFAS Tropical Aquaculture Laboratory Advisory Committee Meeting. Ruskin, Florida.
- Hill, J. E.**, and C. A. Watson. 2005. Diet of the nonindigenous Asian swamp eel, *Monopterus albus* (Synbranchidae), in tropical ornamental aquaculture ponds in Florida. Non-Native Fish Research Laboratory, Florida Fish and Wildlife Conservation Commission, Boca Raton, Florida.
- Ohs, C., and **J. Hill**. 2005. Offshore aquaculture. Community, Science, and Environmental Policy Discussion. Florida Fish and Wildlife Research Institute and University of South Florida, St. Petersburg, Florida.
- Daniels, C., R. Yanong, **J. Hill**, and C. Watson. 2004. INAD exemption for 17- α -methyltestosterone for expression of male secondary sexual characteristics in swordtails. Tropical Aquaculture Laboratory Research and Extension Meeting, Ruskin, Florida.
- Hill, J. E.**, L. G. Nico, C. E. Cichra, and C. R. Gilbert. 2004. Prey vulnerability to peacock cichlids and largemouth bass based on predator gape and prey body depth. Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Hilton Head, South Carolina.
- Hill, J. E.**, J. D. Baldwin, J. S. Graves, R. Leonard, J. F. F. Powell, and C. A. Watson. 2004. Topical and immersion application of GnRH α . Tropical Aquaculture Laboratory Research and Extension Meeting, Ruskin, Florida.
- Hill, J. E.**, and C. A. Watson. 2004. Asian swamp eels *Monopterus albus* in tropical ornamental aquaculture ponds in Florida. Tropical Aquaculture Laboratory Research and Extension Meeting, Ruskin, Florida.
- Hill, J. E.** 2003. Big, scary exotic fish: aquaculture and the nonindigenous species problem. U.S. Aquaculture and the Environment Symposium, Aquaculture America 2003, United States Aquaculture Society Annual Meeting, Louisville, Kentucky.

- Hill, J. E.** 2002. Evaluating the effects of the introduction of peacock cichlids on native largemouth bass in southeast Florida. Exotic Species Symposium. Joint Meeting of Ichthyologists and Herpetologists. Kansas City, Missouri.
- Hill, J. E.** 2002. Invasive fishes and aquaculture. National Aquaculture Association Invasive Species and Aquaculture Symposium. Aquaculture America 2002, U.S. Chapter of the World Aquaculture Society Annual Meeting, San Diego, California.
- Hill, J. E.** 2001. Employment opportunities in extension and public education. Student Workshop. Southern Division, American Fisheries Society Mid-Year Meeting, Jacksonville, Florida.

Contributed Presentations at Professional Meetings

- Hill, J. E.**, and C. A. Watson. 2005. Diet of the nonindigenous Asian swamp eel, *Monopterus albus* (Synbranchidae), in tropical ornamental aquaculture ponds in Florida. Joint Meeting of Ichthyologists and Herpetologists, Tampa, Florida.
- Hill, J. E.**, and C. E. Cichra. 2004. Ontogenetic dietary shifts and dietary overlap of a nonindigenous fish and an ecomorphologically similar native fish. Florida Chapter, American Fisheries Society Annual Meeting, Brooksville, Florida.
- Hill, J. E.** 2002. Adverse effects of introduced fishes in south Florida: what do the data show? Florida Chapter, American Fisheries Society Annual Meeting, Brooksville, Florida.
- Hill, J. E.** 2001. Adverse effects of introduced fishes in south Florida: what do the data show? Joint Meeting of Ichthyologists and Herpetologists, State College, Pennsylvania.
- Hill, J. E.** 2001. Adverse effects of introduced fishes in south Florida: what do the data show? Southern Division American Fisheries Society Mid-Year Meeting, Jacksonville, Florida.
- Hill, J. E.**, and C. E. Cichra. 2000. Size-selective predation by peacock cichlids and trial duration in laboratory prey size selectivity experiments. Florida Chapter, American Fisheries Society Annual Meeting, Brooksville, Florida.
- Hill, J. E.**, L. G. Nico, C. E. Cichra, and C. R. Gilbert. 1999. Gape limitation of the exotic peacock cichlid in Florida, including a comparison with the native largemouth bass. Joint Meeting of Ichthyologists and Herpetologists, State College, Pennsylvania.
- Hill, J. E.**, L. G. Nico, C. E. Cichra, and C. R. Gilbert. 1999. Gape limitation of the exotic peacock cichlid in Florida, including a comparison with the native largemouth bass. Florida Chapter, American Fisheries Society Annual Meeting, Brooksville, Florida.

Hill, J. E., L. G. Nico, C. E. Cichra, and C. R. Gilbert. 1999. Gape limitation of the exotic peacock cichlid in Florida, including a comparison with the native largemouth bass. Southern Division American Fisheries Society, Chattanooga, Tennessee.

RESEARCH EXPERIENCE

Nonindigenous Fish Ecology and Management

Evaluation of the effects of nonindigenous fishes on ecomorphologically similar native species; Documentation of the effects of species introductions; Investigations of life history and ecology of nonindigenous fishes; Monitoring range extensions of nonindigenous fish; Nonindigenous fish eradication; Effects of nonindigenous pest fish on aquaculture.

Aquaculture

Tropical ornamental aquaculture production

Tropical ornamental fish pond production, including evaluation of feeding and fertilizing practices and nutrient dynamics in production ponds; Harvesting, grading, holding, and transportation of tropical ornamental fish; Production of tropical ornamental fish using recirculating system technology; Low cost, indoor production of marine ornamental species in greenhouse systems; Evaluation of color-enhanced feeds for aquarium fish; Marine fish and crustacean culture.

Tropical ornamental fish reproduction

Hormone-induced spawning of tropical ornamental fish by injection and gill application; Off-season conditioning of tropical ornamental fish; Use of environmental cues and water quality bracketing for spawning tropical ornamental fish.

Approval and evaluation of aquaculture chemicals

Investigational New Animal Drug (INAD) approval process for aquaculture drugs and therapeutants (U.S. Food and Drug Administration); Research on effectiveness of mosquito larvicide for U.S. Environmental Protection Agency microbial pesticide approval; Pesticide 24-C or Special Local Needs (SLN) labeling and approval; Labeling and evaluation of label claims for aquarium products; Testing of putative antimicrobials and stress relieving chemicals for handling and transport of tropical ornamental fish.

Fisheries Ecology and Management

Assessment of sport fish abundance and population dynamics; Effects of water level or in-stream flow changes on fish populations; Fish and macroinvertebrate sampling in vegetated and non-vegetated habitats in lakes, streams, and near-shore marine systems; Benthic macroinvertebrate sampling and monitoring as bioindicators of ecosystem health;

Fish sampling for monitoring environmental contaminants; Sampling of fish in long-hydroperiod and ephemeral wetlands.

TEACHING EXPERIENCE

Courses Taught

- Fall 2005 Instructor, Biology of Fishes Individual Study (FAS 6905)
University of Florida, Ruskin, Florida
- Fall 2004, 2005 Adjunct Faculty—Ichthyology (ZOO 1450 and Zoo 1450L)
Hillsborough Community College, Tampa, Florida
- Fall 2000 Teaching Assistant and Lecturer, Applied Fisheries Statistics (FAS
5335C)
University of Florida, Gainesville, Florida
- Spring 1999-2002 Instructor, Data Laboratory, Introduction to Fisheries Science (FAS
4305C) and Fish and Limnology (FAS 6932-Special Topics)
University of Florida, Gainesville, Florida
- 1993-1994 Instructor, Marine Biology (college-preparatory high school level)
Princeton Christian School, Princeton, Florida
- Summer 1991 Student Teaching Assistant, Field Zoology
University of North Alabama, Florence, Alabama

Invited lecturer in a variety of University of Florida courses on aquaculture, fisheries biology and management, and non-native species.

EXTENSION EXPERIENCE

Aquaculture

- 2003-present Provide expertise in nonindigenous species regulations, biology, and management, author extension materials, and give limited assistance with ornamental aquaculture production extension (e.g., cichlid culture) in support of the Tropical Aquaculture Laboratory's statewide extension programs in tropical ornamental aquaculture.
- 1998-2002 Provided general aquaculture extension support for the Florida Cooperative Extension Service and Department of Fisheries and Aquatic Sciences.

Taxonomy and Fish Identification

1998-present Provide taxonomic expertise and fish identification assistance for UF/IFAS faculty, county extension faculty, staff, and students, state agencies (e.g., Florida Department of Agriculture and Consumer Services, Florida Fish and Wildlife Conservation Commission, and St. Johns River Water Management District), commercial aquaculture producers, media, and the public. Produce extension materials.

Pond Management

1998-2002 Provided pond management information and conducted workshops on pond fish biology, water chemistry, aquatic plant management, and fishing management for private recreational fishing pond owners, pond management companies, and county extension faculty.

Youth Education

1998-2002 Conducted and participated in aquatic education and fishing programs that together provided services for over 8000 youth (pre-K through high school, public and private, 4-H, Boy and Girl Scouts, Boys and Girls Clubs, and YMCA and their teachers and instructors).