

**Mary Harper**  
Fish and Wildlife Research Institute  
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**Education:**

2008 – 2009 Courses for Certificate of Education in Biology and Chemistry, FL. St. Petersburg College, St. Petersburg, FL. Certified in Chemistry (grades 6 – 12), Biology (grades 6 – 12) and Mathematics (grades 5 – 9).  
1990 – 1995 M.S., Tulane University, New Orleans, LA. Plant ecology, Dr. Julie Denslow, advisor.  
1992 Organization for Tropical Studies, Universidad de Costa Rica. Tropical Biology: An Ecological Approach  
1985 - 1988 B.S., Loyola University, New Orleans, LA. Biology major with minor in Chemistry.  
1983 - 1984 University of Delaware, Newark, DE. Chemical Engineering major.

**Continuing Education:**

2015 Plant Camp. Prof. Development Course, University of Florida IFAS Center for Aquatic and Invasive Plants.  
2013 Cambridge IGCSE Chemistry (0439) Professional Development Course, Arizona State University, Phoenix, AZ.

**Employment and Experience:**

2017 - Fish and Wildlife Conservation Commission at the Fish and Wildlife Research Institute (FWRI), St. Petersburg, FL. Biological Scientist in the Harmful Algal Bloom (HAB) group, supervised by Dr. Celia Villac and Dr. Kate Hubbard.  
2016 - 2017 Wildlands Conservation, Tampa, FL. Part time contractor/botanist.  
2014 - 2017 University of Tampa, Tampa, FL, part-time instructor for Bio 112: Environmental Science, Biology Department, College of Natural and Health Sciences.  
2015 - 2016 Plato Academy Tarpon Springs, FL. Middle school mathematics teacher. Taught Algebra-1 honors, Pre-Algebra, and 7<sup>th</sup> grade Mathematics.  
2007 - 2015 Tarpon Springs High School, Pinellas Co., FL. Teacher and tutor, Science Dept. Taught Chemistry, Honors Chemistry, Pre-Apice Chemistry, Environmental Science, and Zoology.  
2006 - 2007 Pinellas County School District, Pinellas Co., FL. Substitute teacher, part-time.  
2006 - 2007 Biotechnical Support Services, Tampa, FL. Technical writer, part-time, supervised by Dr. Daphne Lambright. Edited and updated ecological and environmental science documents.  
2002 - 2005 Savannah River Ecology Laboratory. Aiken, SC. Botanist/Ecologist, part-time, supervised by Kathryn Madden and Dr. Rebecca Sharitz. Identified plants, researched and conducted plant germination studies.  
2000 - 2001 Oxford Talawanda Community Services, Inc. Homework Club Coordinator, part-time, supervised by Mary Jo Clark. Coordinated after school tutoring and mentoring program.  
1998 - 2000 Niche Environmental Group. Somerville, OH. Wetland ecologist, part-time, supervised by Virgil Holmes.  
1996 - 1998 Illinois Natural History Survey, Champaign, IL. Wetland ecologist, supervised by Dr. Allen Plocher. Conducted wetland determinations, evaluated and monitored potential wetland mitigation sites, and conducted independent research.  
1994 - 1996 Construction Engineering Research Laboratory, Champaign, IL. Ecologist, supervised by Dr. David Tazik. Assessed impacts and recommended management for plant communities occurring on military installations in the southeastern U.S.  
1993 - 1994 University High School, Urbana, IL. Biology and Science teacher. Taught academically advanced eighth and ninth grade students.  
1990 – 1993 Tulane University, New Orleans, LA. Teaching assistant and tutor, Department of Ecology, Evolution and Organismal Biology.  
1993 U.S.D.A. Forest Service. Technician at U.S.D.A. Forest Service Southern Forest Experiment Station, New Orleans, LA, supervised by Dr. Charles Thomas. Aged and cross-dated tree cores.  
1992 Lockheed Engineering. Field technician at John C. Stennis Space Center, MS, supervised by Dr. Randy Balice. Participated in wetland monitoring program for effects of air and water pollution on plant communities. Identified, sampled, and mapped vegetation, mycorrhizal fungi, and soils.  
1991 Tulane University, New Orleans, LA. Analysis of hemispherical canopy photographs, data entry, and statistical analysis using SPSS, supervised by Dr. Julie Denslow.  
1988 Jean Lafitte National Historical Park, LA. Identified and inventoried marsh plants for a management study with Dr. David White.

**Grants and Awards:**

2018 Nominated for FWRI's Excellence in Outreach Award by Dr. Kate Hubbard  
2018 FWRI Outstanding Team Award to the Harmful Algal Bloom Group  
2018 FWRI Crisis Response Award to the Harmful Algal Bloom Group, Fish and Wildlife Health, and John Kline  
2013 - 2014 Verizon After School STEM Grant, Pinellas Education Foundation

2012 - 2014	School Improvement Grant, School Advisory Council, Tarpon Springs High School
2011	Progress Energy Grant, Pinellas Education Foundation
2009, 2010	Publix Supermarket Charities grant
2001	Oxford Coalition for a Healthy Community – Youth mini-grant
1997	Philip W. Smith Memorial Fund in Support of Natural History Research, Illinois Natural History Survey
1992	Organization for Tropical Studies scholarship, Tulane University
1990 - 1992	Graduate School Research Fund, Tulane University
1992	Sigma Xi Grant-in-Aid-of-Research for M.S. thesis

#### **Publications:**

- Katherine Hubbard<sup>1</sup>, Matthew Garrett<sup>1</sup>, Leanne Flewelling<sup>1</sup>, Alicia Hoeglund<sup>1</sup>, Barbara Kirkpatrick<sup>2</sup>, Robert Currier<sup>2</sup>, Michael Brosnahan<sup>3</sup>, Dennis McGillicuddy<sup>3</sup>, Richard Stumpf<sup>4</sup>, Chuanmin Hu<sup>5</sup>, Robert Weisberg<sup>5</sup>, Yonggang Liu<sup>5</sup>, Chad Lembke<sup>5</sup>, Charles Tilney<sup>1</sup>, Emily Hall, Kelly Richmond<sup>1</sup>, Chris Boland<sup>1</sup>, Kelsey Marvin<sup>1</sup>, April Granholm<sup>1</sup>, Meredith Zahara<sup>1</sup>, Jay Abbott<sup>1</sup>, Celia Villac<sup>1</sup>, Mary Harper<sup>1</sup>, Laura Markley<sup>1</sup>, Karen Henschen<sup>1</sup>, Stephanie Keller Abbe<sup>1</sup>, Alexandra DeSmidt<sup>1</sup>, Jeff Guenther<sup>1</sup>, Cary Lopez<sup>1</sup>, Jillian Fleiger<sup>7</sup>, Chris Kelble<sup>8</sup>, Karen Steidinger.<sup>1</sup> Demonstration of an integrated observation and forecasting network during the 2017-2019 *Karenia brevis* bloom. 2019. Abstract submitted to the "Monitoring, Management, and Mitigation" session at the upcoming HAB symposium.
- Hoeglund, A., M. Garrett and M. Harper. 2018. A Light in the Fog: Shipboard Genetic Quantification of the Red Tide Alga *Karenia Brevis*. <http://fwcfieldnotes.com/2018/04/a-light-in-the-fog-shipboard-genetic-quantification-of-the-red-tide-alga-karenia-brevis/>
- Harper, M., C. Dietrich, R. Larimore, and P. Tessene. 2000. Effects of prescribed fire on prairie arthropods: An enclosure study. *Natural Areas Journal* 20:325-335.
- Fischer, R., C. Martin, A. Trame, and M. Harper. 1997. Managing Plant Communities. *Endangered Species Bulletin* 22(2)18-19.
- Fischer, R., C. Martin, A. Trame, and M. Harper. 1997. Threatened and endangered species on DoD Lands: A community based approach to Management. *The Wildlife Society Southeastern Section Newsletter* 39:3.
- Harper, M. 1995. A Model of the Invasion of Chinese Tallow Tree (*Sapium sebiferum* (L.) Roxb.) into a Bottomland-Hardwood Forest in Louisiana. M. S. Thesis. Tulane University, New Orleans, LA.

#### **Selected Technical Reports:**

- Harper, M., J. Cartron, D. Ketzner, and R. Larimore. Wetland report for FAU 9642 (Old Creal Springs Road) in Williamson County, Illinois. Report submitted to the Illinois Department of Transportation. 29 pp. (Aug 1997).
- Harper, M., A. Trame, R. Fischer, and C. Martin. Management of Pine Woodlands for Threatened and Endangered Species. USACERL Tech Report 98/21. 124 pp. (Dec 1997).
- Harper, M., A. Trame, and M. Hohmann. Management of Herbaceous Seeps and Wet Savannas for Threatened and Endangered Species. USACERL Tech Report 98/70. 76 pp. (Apr 1998).