

Dorothy Anne Byron

Dauphin Island Sea Lab
Marine Ecology Lab
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Interests:

Physiological ecology of marine plants (seagrasses, mangroves, and algae).
Community ecology in marine and estuarine systems.

Education:

M.S. candidate, Florida International University, Department of Biological Sciences, expected graduation date – Summer 2006.

Thesis title: Determining the physiological response of a subtropical seagrass, *Thalassia testudinum*, to salinity stress using pulse amplitude modulated (PAM) fluorometry

B.S., University of Central Florida, Department of Biology. June 1996 – May 2000.
Major: Biology, Minor: Chemistry

Goucher College, Baltimore, Maryland September 1995 – May 1996.
Major: Biology

Honors:

University of Central Florida Founder's Day Award, April 2000.
University of Central Florida President's List, Spring semester 1998.
University of Central Florida Dean's List, Spring, Summer, and Fall semesters 1997.
University of Central Florida Golden Key National Honor Society, inducted November 1997.
Goucher College, Marvin Perry Scholars Program, August 1995 - May 1996.

Scholarships/Grants:

The Central Florida Chapter of The Explorers Club Grant, “Impact of the Bloom of the Brown Alga *Dictyota* on Reef Organisms”, June – August 2000.

University of Central Florida Bookstore Scholarship, January 1999.

Florida Academic Scholars, August 1996 – May 2000.

Goucher College Special Achievement Award, August 1995 and January 1996.

Research Experience/Internships:

Graduate Research Assistant, Florida International University, Department of Biological Sciences, Miami, FL. January 2001 – April 2004.

-Participate in quarterly sample collection for Florida Keys National Marine Sanctuary monitoring project; coordinate and participate in sampling collection for the Florida Coastal Everglades - Long Term Ecological Research project; prepare samples for processing; process nutrient analysis; analyze data; various lab duties.

Graduate Teaching Assistant, Florida International University, Department of Biological Sciences, Miami, FL. August 2000 - December 2000.

-Taught Human Biology Laboratory

Research Assistant, University of Central Florida/ Keys Marine Lab, Long Key, FL. June 2000 – July 2000.

-Research Diver for Laura Wick studying the ecology the red alga *Laurencia* in the Florida Keys.

Research Assistant, University of Central Florida/National Undersea Research Center, Key Largo, FL. July 2000 – August 2000.

-Research Diver for Dr. Linda Walters studying the ecology of the brown alga *Dictyota* in the Florida Keys.

Research Intern, Dauphin Island Sea Lab Internship, Dauphin Island, AL. August 1999-November 1999.

-Participated in experiments studying top-down versus bottom-up effects on submerged aquatic vegetation for Dr. Kenneth Heck.

Research Intern, Harbor Branch Oceanographic Institution, Ft. Pierce, FL. May 1999 - August 1999.

-Conducted experiments comparing the vegetative propagation abilities of *Halophila johnsonii* and *Halophila decipiens* after fragmentation of different sizes (under supervision of Dr. Dennis Hanisak).

Research Assistant, University of Central Florida/National Undersea Research Center,
Key Largo, FL. August 1999.

-Research Diver for Dr. Linda Walters studying the ecology of the brown alga *Dictyota*
and the green alga *Halimeda* in the Florida Keys.

Whale Watch Intern, Sea World, Orlando, FL. June 1998- August 1998.

-Observed and recorded behavior of *Orca* mother and calf.

Oral and Poster Presentations:

Byron, D.A. and Fourqurean, J.W. Fluorescence responses of *Thalassia testudinum* to variations
in salinity and temperature in Florida Bay. Benthic Ecology Meeting, Mobile, AL, March 2004.
Oral presentation.

Byron, D. Examining the use of fluorescence techniques to assess salinity stress for a subtropical
seagrass, *Thalassia testudinum*. Florida International University Biosymposium, Miami, FL.
January 2004. Oral presentation.

Byron, D. and Fourqurean, J.W. Determining the physiological response of a subtropical
seagrass, *Thalassia testudinum*, to salinity stress using pulse amplitude modulated (PAM)
fluorometry. Estuarine Research Federation Meeting and Long Term Ecological Research All
Scientists Meeting, Seattle, WA, September 2003. Poster presentation.

Byron, D. Determining the physiological status of a subtropical seagrass, *Thalassia testudinum*,
using pulse amplitude modulated (PAM) fluorometry. Florida International University
Biosymposium, Miami, FL. January 2002. Poster presentation.

Fourqurean, J.W., Durako, M.J., Zieman, J.C., Willsie, A., Rose, C.D., Rutten, L.M., and
Byron, D. Spatial and temporal patterns in the distribution, abundance, and productivity of
seagrasses in the Florida Keys National Marine Sanctuary. Benthic Ecology Meeting, Durham,
NH, March 2001. Poster presentation.

Byron D. and Hanisak D. Comparison of vegetative propagation capabilities of
Halophila johnsonii and *Halophila decipiens* after fragmentation. Benthic Ecology
Meeting, Wilmington, NC, March 2000. Poster presentation.

Professional certifications:

Divemaster, expected NAUI certification June 2006.
MOCC vessel certification, November 2005.
SCUBA certified PADI, March 1999 – present.
NITROX certified IANTD, August 1999 – present.
Rescue and Scientific Diver certified AAUS, May 2001 – present.
CPR and First Aid, May 1999 – present.
DAN Oxygen Provider, May 1999 – present.

Techniques:

Analytical Laboratory Techniques (Nutrient analysis)
Data Analysis (SPSS, SAS)
Computer Skills (Microsoft, WordPerfect, OpenOffice)

Work Experience:

Student Academic Resource Center, University of Central Florida: Interactive Study Session Leader for Physical Science, January 2000 – present.
Student Academic Resource Center, University of Central Florida: Supplemental Instruction Leader for Fundamentals of Chemistry II, January 2000 – present.
Student Academic Resource Center, University of Central Florida: Student Office Assistant, January 1999 - May 1999.
Scotty's Hardware: sales clerk, June 1996 - October 1996.
Goucher College Security: Security guard, December 1995 - May 1996.

References:

Dr. Kenneth Heck, Dauphin Island Sea Lab, Dauphin Island, AL 36528. Phone: (334)861-7533, FAX: (334)861-4646, e-mail: kheck@disl.org

Dr. James Fourqurean, Department of Biological Sciences, Southeast Environmental Research Center, Miami, FL 33199. Phone: (305)348-4084, FAX: (954)348-4096, e-mail: fourquire@fiu.edu (graduate advisor)

Dr. Linda Walters, Department of Biology, University of Central Florida, Orlando, FL 32816. Phone: (407)823-2148, FAX: (407)823-5769, e-mail: ljwalter@pegasus.cc.ucf.edu (undergraduate advisor)

Leanne Miller Rutten, Center for Marine Science, The University of North Carolina at Wilmington, Key Largo, FL 33037. Phone (305) 451-0233, email: ruttenl@uncwil.edu