

# Stephanie Farrington

## Education

2010 – Present Florida Atlantic University Boca, FL  
Advanced Graduate Certificate in GIS (to be matriculated)

2003 – 2008 NSU Oceanographic Center Dania Beach, FL  
Masters of Science in Marine Biology.

1999 – 2001 University of Tampa Tampa, FL  
Bachelors of Science in Marine Science and Biology.

## Experience

2010 – Present Harbor Branch Oceanographic Institute Fort Pierce, FL  
at Florida Atlantic University

### Biological Scientist

Create and maintain Access Databases to manage large data sets and live collection of video, photograph and specimen data.

Create and maintain ArcGIS maps and data with regards to above.

Analyze deepwater ROV and submersible dive surveys for NOAA grants (percent cover / density of habitat and biota).

April 10-May 2, 2014 NOAA Okeanos Explorer Gulf of Mexico

### Biological Scientist Co-Lead

Organize, plan, and direct ROV Dives

Annotate and commentary of ROV Dive streaming to over 700,000 a day on the internet

April 9-30, 2012 NOAA Okeanos Explorer Gulf of Mexico

### Intern

Create and manage newly collected multibeam sonar data.

Sound Velocity Profile collection and analysis.

2004 – 2011 Divers Cove Davie, FL

### Dive Master, Sales Associate, Equipment Technician and Web Master

Divemaster during pool and field scuba instruction and conducted refresher courses.

Certified Scubapro Equipment Technician.

Developed and continue to maintain Internet website.

2006 – 2008 NSU Oceanographic Center Dania Beach, FL

**Research Assistant**

Utilized CPCe and Microsoft Access to analyze deep-sea ROV transects.

Analyzed photographs for benthic species, image area and habitat.

Incorporated images into Access database for archival purposes.

2005 – 2008 NSU Oceanographic Center Dania Beach, FL

**Master's Thesis: The Biogeography of the Strait of Florida**

Mapped biogeography using ArcGIS, PRIMER and Microsoft Access.

Utilized CPCe and Microsoft Access to analyze videos and photographs for species abundance and habitat.

**Prepared technical paper and presented research.**

**Volunteer**

2009 – 2010 NJAAS at Adventure Aquarium Camden, NJ

**Husbandry Volunteer**

Fish and Invertebrates Department.

Caring for fish and invertebrates, exhibit cleaning, filter maintenance, food preparation, feeding, fish transport and record keeping.

2007 – 2007 NOAA OE, Johnson Sea Link II East Coast of FL

**Volunteer Research Assistant**

Deep-water Oasis: Exploration and Characterization of Deep-Reef Ecosystem; one-week expedition.

Recorded fathometer data, sorted and recorded data from samples, collected and fixed museum vouchers.

**Computer Skills**

ArcGIS 10

PRIMER V6

Microsoft Access: database creation and management

Statview

CPCe

EndNote

Microsoft Office Suite

Pinnacle Studio

Adobe Photoshop

Fledermaus

## Laboratory Skills

Sorting and fixing collected samples  
Species identification of fish, invertebrates, and alga  
Taxonomic dichotomous keys  
Titration  
Water quality  
Microscopy  
Spectrophotometer  
Bacteria cultures  
Scanning Electron Microscope  
Sound Velocity Profile

## PUBLICATIONS:

- Stephanie Farrington, J. K. Reed, Stacey Harter, and Andy David. 2014. South Atlantic MPAs and deepwater coral HAPCs: Characterization of benthic habitat and biota; NOAA Ship *Nancy Foster* 2014 cruise. NOAA CIOERT Report. 203 pp. HBOI Technical Report Number 154.
- Reed, J.K., Stacey Harter, Stephanie Farrington, Andy David. 2014. Characterization and interrelationships of deepwater coral/sponge habitats and fish communities off Florida, USA. Chapter 5 in "Coral Habitat and Fish Interrelationships". CRC Press, Boca Raton, FL, p. 49-80. Harbor Branch Oceanographic Contribution Number 1915.
- Reed, J.K., C. Messing, B. Walker, S. Brooke, T. Correa, M. Brouwer, T. Udouj, and S. Farrington. 2013. Habitat characterization, distribution, and areal extent of deep-sea coral ecosystem habitat off Florida, southeastern United States. *Journal of Caribbean Science* 47: 13-30.
- Vinick, C., A. Riccobono, C.G. Messing, B.K. Walker, J.K. Reed, and S. Rogers. 2012. Siting study for a hydrokinetic energy project located offshore southeastern Florida: protocols for survey methodology for offshore marine hydrokinetic energy projects. Final Report submitted to United States Department of Energy, Golden Field Office, DOE Grant Award Number: DE-EE0002655, by Dehlsen Associates, LLC in Cooperation with Ecology & Environment, Inc., Nova Southeastern University Oceanographic Center, and Florida Atlantic University (Southeast National Marine Renewable Energy Center/Harbor Branch Oceanographic Institute), vii + 93 pp. HBOI Contribution Number 1853.
- Reed, J.K. and S. Farrington. 2010. Distribution of deep-water commercial fisheries species-golden crab, tilefish, royal red shrimp- in deep-water habitats off eastern Florida from submersible and ROV dives. South Atlantic Fishery Management Council and NOAA National Marine Fisheries Service. 163 pp., HBOI Contribution Number 1815.

## PUBLICATIONS – Technical Reports and Abstracts:

- Harter, S, J Reed, S Farrington, and A David. 2015. South Atlantic MPAs and deepwater coral HAPCs: Characterization of fish communities, benthic habitat, and benthic macrobiota. Final Report for 2012-2014 NOAA Cruises. A NOAA CIOERT Report. 75 pp. HBOI Technical Report Number 160.
- Harter, S., A. David, J. Reed, and S. Farrington. 2014. Semi-annual report. South Atlantic shelf-edge MPAs and deep-water coral HAPCs. Summary of accomplishments, April 2014 to September 30, 2014. Report to SAFMC and NOAA. xx pp. HBOI Technical Report Number 153.

- Reed, J.K., Stacey Harter, Stephanie Farrington, Andy David. 2014. South Atlantic MPAs and deepwater coral HAPCs: Characterization of Benthic Habitat and Fauna; NOAA Ship Pisces Cruise 13-03. NOAA CIOERT Report. 310 pp. HBOI Technical Report Number 153.
- Farrington, S., J. Reed, D. Hanisak. 2014. Cruise report, 2014 M.V. Spree, Technical Dive Collection Cruise, June 17-27, 2014. 52 pp. Harbor Branch Oceanographic Technical Report Number 148.
- Reed, J. and S. Farrington. 2014. Photo album and taxonomy of benthic macrobiota from 2012-2013 ROV dives on Pulley Ridge mesophotic reefs. 69 pp. Harbor Branch Oceanographic Technical Report Number 149.
- Reed, J. and S. Farrington. 2014. Photo album and taxonomy of benthic macrobiota from 2012-2013 ROV dives on Tortugas mesophotic reefs. 37 pp. Harbor Branch Oceanographic Technical Report Number 150
- Reed, J. and S. Farrington. 2014. Photo album and taxonomy of benthic macrobiota and fish from 2011-2013 ROV dives on shelf-edge MPAs off southeastern U.S. 215 pp. Harbor Branch Oceanographic Technical Report Number 151.
- Farrington, S., J. Reed, H. Moe, S. Harter, D. Hanisak, A. David. 2014. Characterization of the Mesophotic Benthic Habitat and Fish Assemblages from ROV Dives on Pulley Ridge and Tortugas during 2012 and 2013 R/V Walton Smith Cruises. NOAA CIOERT Cruise Report. Report to NOAA-NOS-NCCOS. 44 pp. HBOI Technical Report Number 147.
- Harter, S., A. David, J. Reed, and S. Farrington. 2013. Semi-annual report. South Atlantic shelf-edge MPAs and deep-water coral HAPCs. Summary of accomplishments, April 2013 to September 30, 2013. Report to SAFMC and NOAA. 5 pp. HBOI Technical Report Number 145.
- Harter, S., A. David, J. Reed, and S. Farrington. 2014. Semi-annual report. South Atlantic shelf-edge MPAs and deep-water coral HAPCs. Summary of accomplishments, Oct. 1, 2013 to March 31 2014. Report to SAFMC and NOAA. 4 pp. HBOI Technical Report Number 146.
- Locker SD, Reed J, Farrington S, Harter S, Hine A, Dunn S, Shinn E. 2012. Sticky Grounds- hardbottom mesophotic habitat on the west Florida outer continental shelf (abstract). AGU Ocean Sciences Meeting. HBOI Miscellaneous Contribution Number 709, Salt Lake City.
- Reed, J., S. Harter, S. Farrington, A. David. 2014. "Mapping, Characterizing, and Interrelationships of Mesophotic Coral/Sponge Habitats And Fish Communities within shelf-edge Marine Protected Areas off Southeastern United States", Abstract, Ocean Sciences Meeting, ASLO/AGU, Honolulu, Hawaii, Feb. 23-28, 2014. HBOI Miscellaneous Report Number 918.
- Reed, J.K., Stacey Harter, Stephanie Farrington, Andy David. 2013. South Atlantic MPAs and deepwater coral HAPCs: Characterization of Benthic Habitat and Biota; NOAA Ship Pisces 2012 cruise. NOAA CIOERT Report. 410 pp. HBOI Technical Report Number 144.
- Reed, John, Stephanie Farrington, Andrew David, Dr. Charles G. Messing, Dr. Esther Guzman, Dr. Shirley Pomponi. 2012. NOAA CIOERT Cruise Report: Survey of the Deep-Sea Coral and Sponge Ecosystem of Pourtales Terrace, NOAA Ship *Nancy Foster*, Florida Shelf-Edge Exploration II (FLoSEE) Cruise, Leg 2-September 23-30, 2011, to be published on various NOAA and Fisheries websites. HBOI Contribution Number 185.
- Reed JK, Farrington S, Pomponi S, Hanisak D, Voss J. 2012. NOAA CIOERT cruise report: Survey of the Pulley Ridge mesophotic reef ecosystem, NOAA Ship Nancy Foster, Florida Shelf-Edge Exploration II (FLoSEE) Cruise, Leg 1-September 12-19, 2011. Harbor Branch Oceanographic Miscellaneous Contribution Number 822, NOAA and Fisheries website.

- Reed JK, Hanisak D, Farrington S, Rademacher K. 2012. Preliminary cruise report, Connectivity of the Pulley Ridge - South Florida Coral Reef Ecosystem: Processes to Decision-Support Tools. 2012 Pulley Ridge Cruise, August 14-25, 2012, R/V Walton Smith and UNCW Super Phantom ROV Harbor Branch Oceanographic Miscellaneous Contribution Number 824. Report to NOAA-NOS-NCCOS, p 66.
- Reed JK, Farrington S, David A, Messing CG, Guzman E, Pomponi S. 2012. NOAA CIOERT cruise report: survey of the deep-sea coral and sponge ecosystem of Pourtales Terrace, NOAA Ship Nancy Foster, Florida Shelf-Edge Exploration II (FLoSEE) Cruise, Leg 2-September 23-30, 2011. To be published on various NOAA and Fisheries websites.
- Reed, J.K. and S. Farrington. 2012. 2011 CIOERT FloSEE II site summary report, Leg 1, Pulley Ridge; NOAA Ship Nancy Foster, September 12-19, 2011. Report to NOAA Cooperative Institute for Ocean Exploration, Research, and Technology, 36 pp. HBOI Technical Report Number 134.
- Reed, J., S. Pomponi, A. David, S. Farrington. 2012. NOAA CIOERT Cruise Report, 2011 Nancy Foster cruise, Leg 2. Report to NOAA Deep Sea Coral Research and Technology Program, 151 pp. HBOI Technical Report Number 135.
- Messing, Charles, Brian Walker, John Reed, and Stephanie Rogers. 2011. South Florida Ocean Measurement Facility: deep-water benthic habitat characterization. R/V Freedom Star and Navy TONGS ROV. Navy Surface Warfare Group, Ft. Lauderdale, FL. HBOI Technical Report No. 128.
- Reed, J. and S. Farrington. 2011. A proposal for extension of the boundaries of the *Oculina* Coral Habitat Area of Particular Concern (OHAPC). Report to the South Atlantic Fishery Management Council. HBOI Technical Report Number 132.
- Reed, J.K., S. Farrington, C. Messing, B. Walker, S. Brooke, M. Brouwer, T. Correa, and T. Udouj. 2011. Distribution and habitat characterization of deep-sea coral ecosystem habitat off Florida, southeastern United States. American Society of Limnology and Oceanography, 2011 International Aquatic Sciences Meeting, February 13-18, 2011, San Juan Puerto Rico. Abstract and poster presentation. HBOI Miscellaneous Contribution Number 689.
- Reed, J.K. and S. Rogers. 2011. Final Cruise Report. Florida shelf-edge expedition (FLoSEE), deepwater Horizon oil spill response: Survey of deepwater and mesophotic reef ecosystems in the eastern Gulf of Mexico and southeastern Florida. R/V Seward Johnson, Johnson-Sea-Link II Submersible, July 9-August 9, 2010. Harbor Branch Oceanographic Institute Technical Report #127, 82 pages. HBOI Technical Report No. 127.
- Reed, J.K., C. Messing, B. Walker, S. Brooke, M. Brouwer, T. Correa, and S. Farrington. 2010. Distribution and characterization of deep-water reef and hard-bottom habitats off eastern Florida. Renewable Ocean Energy and the Marine Environment: Responsible Stewardship for a Sustainable Future, Nov. 2010, Florida Atlantic University. Abstract, p. 42. HBOI Miscellaneous Contribution Number 687.

## **PRESENTATIONS- Conferences and Seminars:**

### ***International***

- 2015 Ash, J., C. Messing, B. Walker, A. David, J. Reed. 2015. Benthic invertebrate assemblages and habitat characterization on the Pourtales Terrace, Florida, with Analysis of the Deepwater Marine Protected Area and Coral Habitat Area of Particular Concern. Abstract. International Deep Sea Symposium, Portugal, xx June 2015. Harbor Branch Oceanographic Miscellaneous Contribution Number 933
- 2015 Messing, C.G., J. Reed, R. Dodge, S. Farrington, S. Brooke, B. Walker. 2015. Macrofaunal assemblages on the Miami Terrace: results of multiple ROV surveys. Deep-Sea Biology Symposium; 2015; Portugal.

2012. AGU Ocean Sciences Meeting. Salt Lake City, Utah. Feb 20-24, 2012. Abstract. “Sticky Grounds-hardbottom mesophotic habitat on the west Florida outer continental shelf.” Locker, S.D., J. Reed, S. Farrington, S. Harter, A. Hine, S. Dunn, E. Shinn.
2012. Fifth International Deep-Sea Coral Symposium, Amsterdam, April 2-6, 2012 “Distribution and characterization of deep-sea coral ecosystem habitats off southeastern United States.” Abstract and presentation- Reed, John K., C. Messing, B. Walker, S. Farrington, S. Brooke, T. Correa, M. Brouwer. HBOI Miscellaneous Contribution Number 738.
2012. Fifth International Deep-Sea Coral Symposium, Amsterdam, April 2-6, 2012. “Coral-dominated assemblages and associated fishes on the Pourtales Terrace, Florida Keys, USA.” Abstract and poster. Messing, C.G., A. David, S. Farrington, J. Reed. HBOI Miscellaneous Contribution Number 739.
2011. American Society of Limnology and Oceanography, 2011 International Aquatic Sciences Meeting, Feb. 13-18, 2011, San Juan Puerto Rico. Poster Presentation’ - “Distribution and habitat characterization of deep-sea coral ecosystem habitat off Florida, southeastern United States.” Abstract and poster- Reed, J.K., S. Farrington, C. Messing, B. Walker, S. Brooke, M. Brouwer, T. Correa.
2010. Renewable Ocean Energy and the Marine Environment: Responsible Stewardship for a Sustainable Future, Nov. 3-5, 2010, Florida Atlantic University. “Distribution and characterization of deep-water reef and hard-bottom habitats off eastern Florida.” Presentation- Reed, John K., C. Messing, B. Walker, S. Brooke, M. Brouwer, T. Correa, and S. Farrington.
2010. Renewable Ocean Energy and the Marine Environment: Responsible Stewardship for a Sustainable Future, Nov. 3-5, 2010, Florida Atlantic University. “Distribution and characterization of deep-water reef and hard-bottom habitats off eastern Florida.” Presentation- Reed, J.K., C. Messing, B. Walker, S. Brooke, M. Brouwer, T. Correa, and S. Farrington.

### ***National and Regional:***

2013. NOAA/NOA/NCCOS Biogeography Branch, webinar, March 26, 2013. Presentation- “At Sea Database- Microsoft Access, ArcGIS, and SEADESC Reports for NOAA Deep-sea and Mesophotic Reef Projects”, John Reed, Stephanie Farrington.
2013. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Jan. 23, 2013, 003-11, “Development of a Service-Oriented Architecture (SOA) application in support of ecosystem-based management.” Abstract and poster- Adornato, L., X. Avila, L. Wright, S. Farrington, and J. Reed. Harbor Branch Oceanographic Misc. Cont. Number 852.
2012. Ocean Sciences meeting, Salt Lake City, Feb. 20-24, “2012, Sticky Grounds – hardbottom mesophotic habitat on the west Florida outer continental shelf.” Abstract and presentation- Locker, S., Reed, J., Farrington, S., Harter, S., Hine, A., Dunn, S., and Shinn, E.
2012. ESRI Southeast User Conference, Orlando Florida, April 30-May 4, 2012, “Microsoft Access and ArcGIS solution for marine benthic surveys.” Abstract and presentation- Farrington, S and JK Reed.
2011. NOVA Graduate Seminar, NOVA Southeastern Oceanographic Center, NOVA University, April 14, 2011. Presentation- “Deep Horizon Oil Spill- CIOERT Florida Shelf-Edge Expedition”. Presentation- S. Farrington, J. Reed.

### **Outreach and Education:**

- Tours- for MOA classes (5) describing the Deepwater Benthic Programs research projects and technology, April 9, 2015.

## GRANTS:

### Grants submitted

2015. Pierre-Philippe Beaujean, E.An, F. Dalgleish, S. Nagahdaripour, J. Reed. NSF 15-504; OCE Major Research Instrumentation. Project title: MRI - Development of a Combined LAsEr Scanner and swath bathymetry Sidescan sonar (CLASS) system for benthic studies using Autonomous Underwater Vehicles. Total Budget- \$984,477 (8/15/15 – 8/14/18 (36 months)).
2015. NOAA CIOERT Yr 6-5.3.1. Mesophotic Reef Ecosystems. NOAA Deep Sea Coral Research and Technology Program; Principal Investigator- John Reed, J. Voss, D. Hanisak; Budget- \$187,331.
- 2015-17 South Atlantic Fishery Management Council (SAFMC) for NOAA CRCP request; Project Title- “ South Atlantic Oculina Experimental Closed Area and Shelf-Edge Marine Protected Areas: Characterization of Benthic Habitat and Fauna, FY15-17.” Principal Investigators- J. Reed, S. Harter, A. David; Budget (total, 3 yrs FY 2015-2017)- \$738,552; FAU- \$276,441.
- 2015-17 NOVA Southeastern University; Project Title- “Florida Current Development Project Southeast Florida. Principal Investigators- C. Messing, J. Reed, S. Farrington; Budget (FAU)- \$65,645 (June 11, 2015 – Dec. 30, 2017).