**George S. Bosarge**

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Email: g.bosarge@northeastern.edu

**EDUCATION**

*Northeastern University*, Boston, MA, 2012 – 2015

USGIF Professional Certificate in Geospatial Intelligence, 2015

MPS, Geographic Information Technology (Remote Sensing Concentration), 2014

*University of South Alabama*, Mobile, AL, 1994 – 2012

Certificate in Geographic Information Systems (4 of 6 classes completed), 2012

BS, Biology (Chemistry Minor), 1994

**AWARDS**

USGIF Award Recipient for Academic Research. United States Geospatial Intelligence Foundation 2015

GEOINT Symposium, Washington D.C., June 24.

USGIF Student Assistant. United States Geospatial Intelligence Foundation 2015 GEOINT Symposium, Washington D.C., June 21 – 25.

**PROFESSIONAL EXPERIENCE**

*Senior Research Laboratory Manager/ABHAP Program Manager* August 2014 – present

Marine Fisheries Lab, Department of Marine Sciences, University of South Alabama

Supervisor: Dr. Sean Powers, spowers@disl.org, (251) 460-7136 or (251) 861-2141

* Manage the acoustic benthic habitat assessment program (ABHAP).
* Focus on acoustic mapping of marine and estuarine benthic habitats utilizing side-scan sonar, single beam and multiphase echosounder systems.
* Perform sonar data analysis and reporting utilizing proprietary software.
* Perform geospatial data analysis and map production using proprietary as well as free and open source software.
* Prepare budgets, plan survey cruises, mange data and perform staff training.

*Research Laboratory Manager*January 2007 – August 2014

Fisheries Ecology Lab, Dauphin Island Sea Lab, University of South Alabama

Supervisor: Dr. Sean Powers, spowers@disl.org, (251) 460-7136 or (251) 861-2141

* Managed daily operations of a fisheries research laboratory.
* Managed or co-managed several projects examining bottom fish and benthic habitat relationships in marine and estuarine systems.
* Performed oyster resource assessments of estuaries ranging from the Florida panhandle to the western edge of Louisiana.
* Managed the acoustic benthic habitat assessment program (ABHAP).

*Benthic Studies Manager*  August 2004 – January 2007

Compass Port Laboratory, Dauphin Island Sea Lab

Supervisor: Dr. Kenneth Heck, kheck@disl.org, (215) 861-2141

* Managed the benthic infaunal assessment component of a biological baseline study associated with the placement of an open loop liquefied natural gas terminal in the northern Gulf of Mexico.
* Performed quarterly sample collections, taxonomic analysis, and data management and reporting.
* Managed construction phase of breakwater project to examine the benefit of created biogenic habitat (oyster reefs) in shoreline stabilization and fisheries enhancement.

**TEACHING EXPERIENCE**

Northeastern University, January 2016 - present

*Certified Online Instructor*

* GIS6320 – Free and Open Source GIS (Winter Quarter)
* Develop and present lectures and assignment tutorials
* Lead weekly discussion threads
* Grade assignments and tests
* Meet with students by phone or video conference

Dauphin Island Sea Lab, January 2016

*Volunteer GIS Instructor*

* GIS training workshop for graduate students in the marine master’s program
* Covered basic GIS skills, map composition and some directed intermediate to advanced spatial analysis techniques within ArcGIS and QGIS

**PRESENTATIONS:**

Bosarge, G. S., Hightower, C. L., Albins, M. A., & Powers, S. P. (2017). A Spatially and Ecologically

Balanced Approach to Artificial Reef Placement. 2017 Esri Ocean GIS Forum, Redlands,

California. October 31 – November 2. (Oral)

Bosarge, G. S. (2015). Underwater Remote Sensing and the Fisheries Independent Ecosystem Survey:

 Examining Spatial Relationships of Red Snapper and Reef Habitat off Coastal Alabama. United

 States Geospatial Intelligence Foundation 2015 GEOINT Symposium. Washington, D.C. June 22

 – 25. (Poster)

Pilnick, A., Bosarge, G. S., & Powers, S. P. (2013). Using Remote Sensing to Visualize Hypoxia in the

Northern Gulf of Mexico. 66th Annual Gulf and Caribbean Fisheries Institute Conference. The

Harte Research Institute for Gulf of Mexico Studies, Corpus Christi, Texas, November 4 – 8.

(Poster)

Park, K., Powers, S. P., Bosarge, G. S., & Jung, H. (2012). Plugging the leak: Barrier island restoration

following Hurricane Katrina enhances habitat quality for oysters in Mobile Bay, Alabama.

Bays and Bayous Symposium, MS/AL SeaGrant, Biloxi, Mississippi. November 14 - 15. (Oral)

Watson, J. T., Bishop, M. A., Powers, S. P., Reynolds, B. F. & Bosarge, S. (2012). Nearshore Piscivory

During Winter in Prince William Sound. 2012 Alaska Marine Science Symposium, Anchorage, Alaska. January 16 – 17. (Poster)

Bosarge, G. S., Showalter, L., Powers, S. P., & Shipp, R. L. (2011). Overview of the University of South

Alabama Benthic Habitat Assessment Program. The University of South Alabama’s 18th Annual Research Forum, Mobile, Alabama. March 28 – April 1. (Poster)

Bosarge, G. S. & Powers, S. P. (2008). Use of Acoustic Benthic Survey Techniques to Assess

Estuarine and Marine Fisheries Habitats along Coastal Alabama. Bays and Bayous Symposium,

MS/AL SeaGrant, Biloxi, Mississippi. October 28 – 29. (Oral)

**PUBLICATIONS:**

Powers, S. P., Drymon, J. M., Hightower, C. L., Spearman, T., Bosarge, G. S., & Jefferson, A. (in

 review). Distribution and age composition of Red Snapper (*Lutjanus campechanus*) across the

inner continental shelf in the northern Gulf of Mexico. *Transactions of the American Fisheries*

*Society*.

Park, K., S. P. Powers, G. S. Bosarge, and H. Jung. (2014). Plugging the leak: Barrier island restoration

following Hurricane Katrina enhances habitat quality for oysters in Mobile Bay, Alabama. *Marine Environmental Research*, *94*, 48-55.