

Brian K. Walker

Nova Southeastern University Oceanographic Center (NSU OC)

8000 N. Ocean Drive, Dania Beach, FL 33004

Telephone: 954-262-3675; Fax: 954-262-4098; Email: walkerb@nova.edu

Professional Preparation

Florida State University	Biology	B.A., 1995
Nova Southeastern University	Marine Biology & Coastal Zone Mgmt	M.Sc., 2002
Nova Southeastern University	Marine Biology	Ph.D., 2008

Appointments

2008–Present	Research Scientist, Oceanographic Center, Nova Southeastern University
2001–2008	Research Assistant, Oceanographic Center, Nova Southeastern University
2005–2006	Teaching Assistant-Master's Level, NSU OC, Environmental Remote Sensing and GIS

Selected Publications (Out of 24)

- Walker B.K. and Gilliam D.S. (2013) "Determining the extent and characterizing coral reef habitats of the northern latitudes of the Florida Reef Tract (Martin County)." PLoS ONE, *In press*.
- Reed, J.K., C. Messing, B. Walker, S. Brooke, T. Correa, M. Brouwer and T. Udouj. (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.
- Walker B.K., Gilliam D.S., Dodge R. E. and J. Walczak. (2012) "Dredging and shipping impacts on southeast Florida coral reefs." *Proceedings of the 12th International Coral Reef Symposium, 19A Human impacts on coral reefs: general session, Cairns, Australia, 9-13 July 2012*.
- Walker B.K., Larson E.A., Moulding A., and D.S. Gilliam. (2012) "Small-scale mapping and movement of shallow-water high-density staghorn coral (*Acropora cervicornis*) thickets." *Coral Reefs*, 31:885–894.
- Walker B.K. (2012) Spatial Analyses of Benthic Habitats to Define Coral Reef Ecosystem Regions and Potential Biogeographic Boundaries along a Latitudinal Gradient. PLoS ONE 7:e30466
- Walker B.K., Riegl B.M., and R.E. Dodge. (2008) Mapping Coral Reef Habitats in Southeast Florida Using a Combined Technique Approach. *Journal of Coastal Research*, 24(5), 1138-1150.
- Banks K.W., Riegl B.M., Richards V.P., Walker B.K., Helmle K.P., Jordan L.K.B., Phipps J., Shivji M.S., Spieler R.E., and Dodge R.E. (2008) "The reef tract of continental southeast Florida (Miami-Dade, Broward, and Palm Beach Counties, USA)." In *Coral Reefs of the USA* (Eds. Riegl B.M. and Dodge R.E.), pp. 175-220, Springer.
- Riegl B., Moyer R.P., Walker B.K., Kohler K., Gilliam D., and Dodge R.E.. (2008) A tale of germs, storms, and bombs: geomorphology and coral assemblage structure at Vieques (Puerto Rico) compared to St. Croix (U.S. Virgin Islands). *Journal of Coastal Research*, 24(4): 1008–1021.

- Foster G., Walker B.K., Riegl B.M. (2009) Interpretation of Single-Beam Acoustic Backscatter Using LIDAR-Derived Topographic Complexity and Benthic Habitat Classifications in a Coral Reef Environment. *Journal of Coastal Research*, SI (53) 16-26.
- Jordan L.K.B., Banks K.W., Fisher L.E., Walker B.K., and Gilliam D.S. 2009. Elevated sedimentation on coral reefs adjacent to a beach nourishment project. *Marine Pollution Bulletin*, (60) 261-271.
- Walker BK. (2009). A Model Framework for Predicting Reef Fish Distributions across the Seascape Using GIS Topographic Metrics and Benthic Habitat Associations. Proceedings of the 11th International Coral Reef Symposium, Ft. Lauderdale, Florida, 7-11 July 2008, pp 657-661.
- Walker B.K., Jordan L.K.B., and Spieler R.S. (2009) Relationship of fish assemblages and topographic complexity on southeastern Florida coral reef habitats. *Journal of Coastal Research*, SI (53) 39-48.
- Walker B.K., Henderson B., and R.S. Spieler. (2002) Biological Assessment of Artificial Reef Materials: Concrete Aggregates and Quarry Stone. *Aquatic Living Resources* 15: 95-105.
- Walker B.K. and R.L. Sherman. (2001) Gross brain morphology in the Yellow Stingray, *Urobatis jamaicensis*. *Florida Scientist*. 64(4): 246-249.

Synergistic Activities

- 2013 – Pres Southeast Florida Coral Reef Initiative Technical Advisory Committee member.
- 2013 – Pres GIS Technical Support for Our Florida Reefs community working groups.
- 2009 NOAA Atlantic/Caribbean CREIOS Workshop, San Juan, Puerto Rico.
- 2005 – Pres Port of Miami & Port Everglades Harbor Safety Committee member.
- 2004 – 2005 Steering Committee: NOAA - Southern Florida Shallow-water Coral Ecosystem Mapping Implementation Plan (MIP).

Collaborators During Past Four Years

Joanna Walczak (FL-DEP CRCP), Richard Dodge (NSUOC), Tim Fisk (Calypso U.S. Pipeline, LLC.), Dave Gilliam (NSUOC), Vladimir Kosmynin (FL DEP Beaches and Shores), James Byrne (TNC), Charles Messing (NSUOC), Matt Kendall (NOAA), Rene Baumstark (FWC-FWRI), John Reed (HBOI), Antonino Riccobono (E & E), Steve Rohmann (NOAA), Richard Spieler (NSUOC), Sara Thanner (Miami-Dade ERM), Jeff Beal (FWC).

Previous Advisors

- Dr. Bernhard Riegl (Ph.D. Advisor) Nova Southeastern University Oceanographic Center, Dania Beach, FL; Voice: 954-262-3671.
- Dr. Richard Spieler (Master's Advisor) Nova Southeastern University, Oceanographic Center, Dania Beach, FL; Voice: 954-262-3613.

Thesis Sponsor and Postgraduate Mentor - 7 Master of Science Thesis Chair; 7 Master of Science Committee member.