

## CURRICULUM VITAE

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### Ernst Bryan Peebles

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### Education

Ph.D., Marine Science, 1996 - University of South Florida, Tampa, FL

M.S., Marine Science, 1987 - University of South Florida, Tampa, FL

B.S., Biology with coordinate major in Environmental Studies, 1983 - Tulane University,  
New Orleans, LA

### Professional Experience

- 2009-pres. Associate Professor (tenured), USF College of Marine Science (USF CMS), St. Petersburg, FL
- 2006-2016 Adjunct Graduate Faculty, Florida Gulf Coast University, Dept. of Marine and Ecological Sciences, Ft. Myers, FL
- 2012-2013 Director of Coastal Systems Ecology, Water Institute of the Gulf, Baton Rouge, LA
- 2004-2009 Research Faculty, USF CMS (PI on research grants), St. Petersburg, FL
- 1996-2004 Research Associate, USF CMS (PI on research grants), St. Petersburg, FL
- 1997-2001 Adjunct Graduate Faculty, University of Southern Mississippi, Department of Coastal Sciences, Ocean Springs, MS
- 1996-1998 Summer Faculty, Gulf Coast Research Laboratory, University of Southern Mississippi, Department of Coastal Sciences, Ocean Springs, MS
- 1988-1996 Research Assistant (Co-PI on research grants), USF Department of Marine Science, St. Petersburg, FL
- 1985-1987 Marine Technician, Florida Department of Natural Resources (presently the Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute), St. Petersburg, FL
- 1983-1985 Research Assistant, USF Department of Marine Science, St. Petersburg and Naples, FL
- 1981-1982 Field Technician (undergraduate intern), Tulane University Riverside Research Laboratories (presently the Tulane Biodiversity Research Institute), Belle Chasse, LA

### Research Interests

Habitat and feeding ecology of coastal fish and shellfish, ecogeochemistry, stable isotope analysis of trophic relationships and individual geographic histories, biomass pathways in coastal ecosystems, otolith microchemistry, fisheries oceanography, community ecology, freshwater management, watershed land-use effects on coastal ecosystems, habitat connectivity, and marine resource assessment.

### Publications Summary

102 publications, of which 37 are peer-reviewed, 17 are not peer-reviewed, 46 are technical reports, and 2 are book chapters. My H-index is 16, i10-index is 26, and total times cited is 886 for 89 publications recognized by Google Scholar (average of 10 citations/publication). The majority of publications involve

dynamic coastal fish and shellfish habitat, with an emphasis on freshwater inflow effects, life history, stable isotopes, and energy pathways. Recent publications focus on re-creation of individual life histories using molecular records stored within various tissues.

### Peer-Reviewed Publications

37 papers, with 15 as senior author (bold type) and 10 led by students or post-docs from my lab (underlined)

#### Refereed Articles Published or In Press:

Kurth, B.N., E.B. Peebles, C.D. Stallings. 2019. Atlantic Tarpon (*Megalops atlanticus*) exhibit upper estuarine habitat dependence followed by foraging system fidelity after ontogenetic habitat shifts. *Estuarine, Coastal, and Shelf Science* 225, <https://doi.org/10.1016/j.ecss.2019.106248>.

Herdter, E., S.A. Murawski, B. Mahmoudi, E.B. Peebles. 2019. Spatial variability in size structure, growth, and recruitment of Spotted Seatrout among six Florida estuaries. *Marine and Coastal Fisheries* 11:97-111.

Meath, B., E.B. Peebles, H. Judkins, B.A. Seibel. 2019. Stable isotopes in the eye lenses of *Doryteuthis plei* (Blainville 1823): Exploring natal origins and migratory patterns in the eastern Gulf of Mexico. *Continental Shelf Research* 174:76-84.

Burrows, M., J.S. Browning, M. Breitbart, S.A. Murawski, and **E.B. Peebles**. 2019. DNA barcoding reveals clear delineation between spawning sites for neritic versus oceanic fishes in the Gulf of Mexico. *Fisheries Oceanography* 28:228–239.

Hardy, R.F., C. Hu, B. Witherington, B. Lapointe, A. Meylan, E. Peebles, L. Meirose, and S. Hiram. 2018. Characterizing a sea turtle developmental habitat using Landsat observations of surface-pelagic drift communities in the eastern Gulf of Mexico. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 11:3646-3659.

Murawski, S.A., E.B. Peebles, A. Gracia, J.W. Tunnell, Jr., M. Armenteros. 2018. Comparative abundance, species composition, and demographics of continental shelf fish assemblages throughout the Gulf of Mexico. *Marine and Coastal Fisheries* 10:325-346.

Tzadik, O.E., D.L. Jones, E.B. Peebles, C.C. Koenig, and C.D. Stallings. 2017. The effects of spatial scale on assigning nursery habitats in Atlantic Goliath Groupers (*Epinephelus itajara*) using non-lethal analyses of fin rays. *Estuaries and Coasts* 40:1785-1794. doi:10.1007/s12237-017-0244-z

Kilborn, J.P., D.L. Jones, E.B. Peebles, and D.F. Naar. 2017. Resemblance profiles as clustering decision criteria: Estimating statistical power, error, and correspondence for a hypothesis test for multivariate structure. *Ecology and Evolution* 7:2039-2057. DOI: 10.1002/ece3.2760

Granneman, J., D.L. Jones, and **E.B. Peebles**. 2017. Associations between metal exposure and lesion formation in offshore Gulf of Mexico fishes collected after the Deepwater Horizon oil spill. *Marine Pollution Bulletin* 117: 462-477. <http://dx.doi.org/10.1016/j.marpolbul.2017.01.066>

- Tzadik, O.E., J.S. Curtis, J.E. Granneman, B.N. Kurth, T.J. Pusack, A.A. Wallace, D.J. Hollander, E.B. Peebles, and C.D. Stallings. 2017. Chemical archives in fishes beyond otoliths: A review on the use of other body parts as chronological recorders of microchemical constituents for expanding interpretations of environmental, ecological, and life-history changes. *Limnology and Oceanography: Methods*. 15:238-263. DOI: 10.1002/lom3.10153
- Barros, N.H.C., A.A. de Souza, **E.B. Peebles** and S. Chellappa (co-senior author). 2017. Dynamics of sex reversal in the marbled swamp eel (*Synbranchus marmoratus* Bloch, 1795), a diandric hermaphrodite from Marechal Dutra Reservoir, northeastern Brazil. *Journal of Applied Ichthyology* 33:443-449. DOI: 10.1111/jai.13273
- Tzadik, O.E., E.B. Peebles, and C.D. Stallings. 2017. Life-history studies by non-lethal sampling: using microchemical constituents of fin rays as chronological recorders. *Journal of Fish Biology* 90:611–625. DOI: 10.1111/jfb.13156.
- Stallings, C.D., E.B. Peebles, O. Ayala, J.S. Curtis, and K.R. Wall. 2016. Lunar periodicity in spawning of white grunt, *Haemulon plumierii*. *Bulletin of Marine Science* 92:545–550. <http://dx.doi.org/10.5343/bms.2016.1071>
- O'Connor, B.S., F.E. Müller-Karger, R.W. Nero, C. Hu, and E.B. Peebles. 2016. The role of Mississippi River discharge in offshore phytoplankton blooming in the northeastern Gulf of Mexico during August 2010. *Remote Sensing of Environment* 173:133–144. DOI: <http://dx.doi.org/10.1016/j.rse.2015.11.004>
- Baron-Aguilar, C.C., K. Main, E.B. Peebles and F.E. Müller-Karger. 2015. Influence of temperature on yolk resorption by *Centropomus undecimalis* larvae. *Aquaculture Research* 46:1679-1687 DOI: 10.1111/are.12323
- Wallace, A.A., D.J. Hollander, and **E.B. Peebles**. 2014. Stable isotopes in fish eye lenses as potential recorders of trophic and geographic history. *PLOS One* DOI: 10.1371/ journal.pone.0108935
- Weisberg, R.H., L. Zheng, and E.B. Peebles. 2014. Gag grouper larvae pathways on the West Florida Shelf. *Continental Shelf Research* 88:11-23.
- Brame, A.B., C.C. McIvor, E.B. Peebles, and D.J. Hollander. 2014. Site fidelity and condition metrics suggest sequential habitat use by juvenile common snook. *Marine Ecology Progress Series* 509:255-269.
- Murawski, S.A. W.T. Hogarth, E.B. Peebles, and L. Barbieri. 2014. Prevalence of external skin lesions and polycyclic aromatic hydrocarbon concentrations in Gulf of Mexico fishes, post- *Deepwater Horizon*. *Transactions of the American Fisheries Society* 143:1084-1097.
- Radabaugh, K.R. and **E.B. Peebles**. 2014. Multiple regression models of  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  for fish populations in the eastern Gulf of Mexico. *Continental Shelf Research* 84:158-168. (Recipient of NASA Giovanni Image Hall of Fame Award)
- Burghart, S.E., L. Van Woudenberg, C.A. Daniels, S.D. Myers, **E.B. Peebles**, and M. Breitbart. 2014.

- Disparity between planktonic fish egg and larval communities as indicated by DNA barcoding. *Marine Ecology Progress Series* 503:195-204.
- Radabaugh, K.R., E.M. Malkin, D.J. Hollander and **E.B. Peebles**. 2014. Evidence for light-environment control of carbon isotope fractionation by benthic microalgal communities. *Marine Ecology Progress Series* 495:77-90.
- Radabaugh, K.R., D.J. Hollander and **E.B. Peebles**. 2013. Seasonal  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  isoscapes of fish populations along a continental shelf trophic gradient. *Continental Shelf Research* 68: 112-122.
- Burghart, S.E., D.L. Jones and **E.B. Peebles**. 2013. Variation in estuarine consumer communities along an assembled eutrophication gradient; Implications for food web instability. *Estuaries and Coasts* 36:951-965.
- Tolley, S.G., B.M. Bachelor and E.B. Peebles. 2013. Recruitment of the crabs *Eurypanopeus depressus*, *Rhithropanopeus harrisi* and *Petrolisthes armatus* to oyster reefs: The influence of freshwater inflow. *Estuaries and Coasts* 36:820–833.
- Radabaugh, K.R. and **E.B. Peebles**. 2012. Detection and classification of phytoplankton deposits along an estuarine gradient. *Estuaries and Coasts* 35:1361-1375.
- Tolley, S.G., B.M. Brosious, J.T. Evans, J.L. Nelson, L.H. Haynes, L.K. Heine, S.E. Burghart and E.B. Peebles. 2012. Freshwater inflow effects on larval fish and crab settlement onto oyster reefs. *Journal of Shellfish Research* 31:895-908.
- Peebles, E.B.** and M.F.D. Greenwood. 2009. Spatial abundance quantiles as a tool for assessing habitat compression in motile estuarine organisms. Charlotte Harbor NEP Special Issue of *Florida Scientist: From Data to Policy: Our Partnership in Action* 72:277-288.
- Walsh, J.J., R.H. Weisberg, J.M. Lenes, F.R. Chen, D.A. Dieterle, L. Zheng, G.A. Vargo, J.A. Havens, E.B. Peebles, D.J. Hollander, R. He, C.A. Heil, B. Mahmoudi, and J.H. Landsberg. 2009. Isotopic evidence for dead fish maintenance of Florida red tides, with implications for coastal fisheries over both source regions of the West Florida shelf and within downstream waters of the South Atlantic Bight. *Progress in Oceanography* 80:51-73.
- Peebles, E.B.**, S.E. Burghart and D.J. Hollander. 2007. Causes of inter-estuarine variability in bay anchovy (*Anchoa mitchilli*) salinity at capture. *Estuaries and Coasts* 30: 1060-1074.
- Flannery, M.S., E.B. Peebles and R.T. Montgomery. 2002. A percent-of-flow approach for managing reductions of freshwater inflows from unimpounded rivers to southwest Florida estuaries. *Estuaries* 25:1318-1332.
- Peebles, E.B.** 2002. Temporal resolution of biological and physical influences on bay anchovy (*Anchoa mitchilli*) egg abundance near a river-plume frontal zone. *Marine Ecology Progress Series* 237:257-269.

Tolley, S.G., and E.B. Peebles. 1998. Decay of diel patterns of swimming activity in juvenile common snook (*Centropomus undecimalis*) maintained in captivity. *Bulletin of Marine Science* 62:275-283.

**Peebles, E.B.**, J.R. Hall and S.G. Tolley 1996. Egg production by the bay anchovy *Anchoa mitchilli* in relation to adult and larval prey fields. *Marine Ecology Progress Series* 131:61-73.

**Peebles, E.B.**, and S.G. Tolley. 1988. Distribution, growth, and mortality of larval spotted seatrout, *Cynoscion nebulosus*: A comparison between two adjacent estuarine areas of southwest Florida. *Bulletin of Marine Science* 42:397-410.

Tolley, S.G., and E.B. Peebles. 1987. Occurrence of *Gunterichthys longipenis* in a southwest Florida estuary. *Northeast Gulf Science*. 9:43-45.

Tolley, S.G., E.T. Dohner and E.B. Peebles. 1987. Occurrence of larval snook, *Centropomus undecimalis* (Bloch), in Naples Bay, Florida. *Florida Scientist* 50:34-38.

#### Non-Refereed Articles Published:

17 articles, with 8 as senior author (bold type) and 7 including student authors from my lab (underlined)

**Peebles, E.B.** 2016. Why toxic algae blooms like Florida's are so dangerous to people and wildlife. *The Conversation*, July 19, 2016

Radabaugh, K.R., A.A. Wallace, S.A. Huelster, D.J. Hollander and **E.B. Peebles**. 2011. Comparison of vertebral  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  records with organism-based isoscapes to identify fish migration, site fidelity and food-web preferences of fishes in the eastern Gulf of Mexico, USA (Abstract) AGU fall meeting, 2011.

Hollander, D.J., K. Freeman, G. Ellis, A. Difendorf, E.B. Peebles and J. Paul. 2010. Long-lived layers of toxic BP Oil in the waters and sediments of the Northern Gulf of Mexico: A molecular organic and isotopic geochemical approach to understanding their nature, origin and impacts (Abstract). AGU fall meeting, 2010.

Radabaugh, K.R., S.A. Huelster and **E.B. Peebles**. 2010. Variation in fish  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  along a climatic gradient: An isoscape perspective for the West Florida Shelf (Abstract). AGU fall meeting, 2010.

**Peebles, E.B.**, A.M. Hoare, E.M. Malkin, G.S. Ellis & D.J. Hollander 2010. Nitrogenous organic matter accumulation in Safety Harbor, Florida: Sources and decadal-scale trends. Pages 15-26 in Cooper, S.T. (ed.). *Proceedings, Tampa Bay Area Scientific Information Symposium, BASIS5*: 20-23 October 2009. St. Petersburg, FL. 538 pp.

MacDonald, T.C., R.E. Matheson, Jr., E.B. Peebles, R.H. McMichael, Jr. & M.F.D. Greenwood. 2010. Tidal creeks as nekton habitat in the Tampa Bay estuary. Pages 319-330 in Cooper, S.T. (ed.). *Proceedings, Tampa Bay Area Scientific Information Symposium, BASIS5*: 20-23 October 2009. St. Petersburg, FL. 538 pp.

- Ley, J.A., C.C. McIvor, E.B. Peebles & H. Rolls. 2010. Defining fish nursery habitats: an application of otolith elemental fingerprinting in Tampa Bay, Florida. Pages 331-346 in Cooper, S.T. (ed.). *Proceedings, Tampa Bay Area Scientific Information Symposium, BASIS5: 20-23 October 2009*. St. Petersburg, FL. 538 pp.
- Malkin, E.M., D.J. Hollander & E.B. Peebles. 2010. Using estuarine fish stable nitrogen isotopes to pinpoint land cover nutrient origins. Pages 347-355 in Cooper, S.T. (ed.). *Proceedings, Tampa Bay Area Scientific Information Symposium, BASIS5: 20-23 October 2009*. St. Petersburg, FL. 538 pp.
- Krebs, J.M., E.B. Peebles, M.P. Weinstein & R.G. McConnell. 2010. Revisiting and updating our knowledge on the science of Tampa Bay's tidal tributaries: Session synthesis. Pages 387-396 in Cooper, S.T. (ed.). *Proceedings, Tampa Bay Area Scientific Information Symposium, BASIS5: 20-23 October 2009*. St. Petersburg, FL. 538 pp.
- Malkin, E.M., E.B. Peebles and D.J. Hollander. 2009. Urban socio-economic factors affect the isotopic composition of fish muscle (Abstract). *Geochimica Et Cosmochimica Acta* 73: A823-A823.
- Ellis, G., J. McKnight, G. Herbert, E. Peebles, D. Hollander. Effect of shell formation on tissue amino acid carbon composition in the marine snail *Strombus* sp.: implications for interpreting biochemical and environmental conditions from organic matter bound in carbonate shells (Abstract). Isocompound 2009, 1-5 June 2009. Potsdam, Germany
- Locascio, J., E.B. Peebles and D. Mann. 2008. Sound production and spawning by black drum (*Pogonias cromis*) in southwest Florida (Abstract). *Journal of the Acoustical Society of America* 123: 3101.
- Hollander, D.J., E.M. Malkin, S. Murasko and **E.B. Peebles**. 2005. Isotopic perspectives on the foundation of estuarine-dependent fish biomass: Macrophytes versus microphytes (Abstract) AGU spring meeting, 2005.
- Neely, M.B., E. Bartels, J. Cannizzaro, K.L. Carder, P. Coble, D. English, C. Heil, C. Hu, J. Hunt, J. Ivey, G. McRae, E. Mueller, E. Peebles, K. Steidinger. 2004. Florida's black water event. Pp. 377-399 in: Steidinger, K.A., J.H. Landsberg, C.R. Tomas and G.A. Vargo (Eds.). *Harmful Algae 2002*. Florida Fish and Wildlife Conservation Commission, Florida Institute of Oceanography, and Intergovernmental Oceanographic Commission of UNESCO.
- Peebles, E.B.**, Flannery, M.S, Matheson, R.E. and J. Rast. 1991. Fish nursery utilization of the Little Manatee River estuary: relationships to physicochemical gradients and the distribution of food resources. In: Treat, S.F.; Clark, P.A., eds. *Proceedings, Tampa Bay Area Scientific Information Symposium, BASIS2*. 1991 February 27 - March 1; Tampa, FL.
- Peebles, E.B.** 1996. Ontogenetic habitat and diet selection in estuarine-dependent fishes: comparisons of observed patterns with model predictions. Doctoral dissertation, University of South Florida, Tampa, FL.
- Peebles, E.B.** 1987. Early life history of the sand seatrout, *Cynoscion arenarius*, in southwest Florida. Master's thesis, University of South Florida, Tampa, FL.

Technical Reports:

46 reports, with 24 as senior author (bold type) and 16 including student or post-doc authors from my lab (underlined)

**Peebles, E.** 2019. Independent review of the coordinated long-term operation of the Central Valley Project and State Water Project (California). Report submitted to the National Marine Fisheries Service and the U.S. Fish and Wildlife Service.

**Peebles, E.**, K. Boswell, M. Breitbart, J. Browning, M. Burrows, D. Chagaris, S. Grasty, C. Lembke, J. Locascio, S. Murawski, B. V. Nguyen, M. Schram, C. Stallings, N. Tucker, and J. Vecchio. 2018. Spawning habitat & early-life linkages to fisheries (SHELF): Preliminary report for the two-year pilot study, 2017-18. Submitted to the Florida RESTORE Act Centers of Excellence Program.

Simenstad, C., N. Monsen, H. Gosnell, E.B. Peebles, G.T. Ruggerone, and J. Van Sickle. 2017. Independent review panel report for the 2016-2017 California WaterFix aquatic science peer review, phase 2b. Technical report submitted to the Delta Science Program, Sacramento, CA.

Simenstad, C., N. Monsen, H. Gosnell, E.B. Peebles, G.T. Ruggerone, and J. Van Sickle. 2017. Independent review panel report for the 2016-2017 California WaterFix aquatic science peer review, phase 2a. Technical report submitted to the Delta Science Program, Sacramento, CA.

Simenstad, C., J. Van Sickle, N. Monsen, E.B. Peebles, G.T. Ruggerone, and H. Gosnell. 2016. Independent review panel report for the 2016 California WaterFix aquatic science peer review. Technical report submitted to the Delta Science Program, Sacramento, CA.

MacDonald, T.C., **E.B. Peebles**, B. Michaud, S.E. Burghart and R.H. McMichael, Jr. 2015. An assessment of relationships of fish and invertebrate populations with static and dynamic habitats in estuarine systems to support the establishment of minimum flows and levels. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.

**Peebles, E.B.** 2015. Zooplankton and hyperbenthos as community metrics for the trophic state of tidal creeks. Technical report submitted to the Tampa Bay Estuary Program.

Jones, D.L., T.S. Switzer, B.C. Houston, E.B. Peebles. 2015. Use of otolith microchemistry to improve fisheries-independent indices of recruitment for Gag (*Mycteroperca microlepis*): Linking estuarine nurseries to nearshore reefs in the eastern Gulf of Mexico. Final MARFIN report submitted to NOAA Fisheries SERO, St. Petersburg, FL.

Reed, D., J. Hollibaugh, J. Korman, P. Montagna, E. Peebles, K. Rose, and P. Smith. 2014. Delta Science Program independent science review; workshop on Delta outflows and related stressors. Technical report submitted to the Delta Science Program, Sacramento, CA.

**Peebles, E.B.** 2013. Hydrodynamic water-age responses to freshwater inflows into the tidal Alafia River, Florida. Technical report submitted to Atkins North America, Tampa, FL.

- Jones, D.L., T.S. Switzer, B.C. Houston, and E.B. Peebles. 2013. Use of otolith microchemistry to improve fisheries-independent indices of recruitment for gag (*Mycteroperca microlepis*): linking estuarine nurseries to nearshore reefs in the eastern Gulf of Mexico. SEDAR33-DW09. SEDAR, North Charleston, SC. 25 pp.
- Reed, D., A.S. Leon, H.W. Paerl, E.B. Peebles, W.V. Sobczak, and E.B. Taylor. 2012. Delta Science Program independent science review; Fall Low Salinity Habitat (FLaSH) study synthesis – year one of the delta fall outflow adaptive management plan. Technical report submitted to the Delta Science Program, Sacramento, CA.
- Reed, D., P. Goodwin, H.W. Paerl, E.B. Peebles, W.V. Sobczak, and E.B. Taylor. 2011. Review panel summary report: Draft plan for adaptive management of fall outflow for delta smelt protection and water supply reliability. Technical report submitted to the Delta Science Program, Sacramento, CA.
- Peebles, E.B.** and B.J. Barber. 2011. Utility of improved taxonomic resolution to the prediction of organism responses to freshwater inflows into the Alafia River estuary. Technical report submitted to Tampa Bay Water, Inc., Clearwater, FL.
- Burghart, S.E. and **E.B. Peebles**. 2011. A comparison of spring-fed and surface-fed estuaries: Zooplankton, ichthyoplankton, and hyperbenthos. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- MacDonald, T.C., E.B. Peebles, C.B. Guenther, S.E. Burghart, R.H. McMichael, Jr., J. Davis. 2011. Freshwater inflow effects on fishes and invertebrates in the Crystal River and estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Coleman, F., C. Tortorici, and E. Peebles. 2010. Living marine resources breakout session report to the National Science and Technology Council, Joint Sub-Committee on Ocean Science & Technology, Principal Investigator Conference on the Deepwater Horizon Oil Spill, St. Petersburg, FL, October 5-6, 2010.
- Tolley, S.G., D. Fugate, M.L. Parsons, S.E. Burghart and E.B. Peebles. 2010. The responses of turbidity, CDOM, benthic microalgae, phytoplankton and zooplankton to variation in seasonal freshwater inflow to the Caloosahatchee Estuary. Technical report submitted to the South Florida Water Management District, West Palm Beach, FL.
- Brooks, G.R., R.A. Larson, S.D. Locker, D.J. Hollander, E.B. Peebles and P. Swarzenski. 2009. Distribution and accumulation of organic-rich sediments in Safety Harbor (Tampa Bay), Florida over the past 100 years. Technical report submitted to the Tampa Bay Estuary Program, St. Petersburg, FL.
- Peebles, E.B.**, D.J. Hollander, S.D. Locker, P.W. Swarzenski, and G.R. Brooks. 2009. Areal extent, source and ecological status of organic sediment accumulation in Safety Harbor, Tampa Bay. Technical report submitted to the Tampa Bay Estuary Program, St. Petersburg, FL.
- Peebles, E.B.**, T.C. MacDonald, S.E. Burghart, C. Guenther, R.E. Matheson, Jr., R.H.

- McMichael, Jr. 2009. Freshwater inflow effects on fish and invertebrate use of the Homosassa River estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Greenwood, M.F.D., E.M. Malkin, E.B. Peebles, S.D. Stahl, and F.X. Courtney. 2008. Assessment of the value of small tidal streams, creeks, and backwaters as critical habitats for nekton in the Tampa Bay watershed. Report by the Fish and Wildlife Research Institute to the Florida State Wildlife Grants Program, Project SWG05-015, Tallahassee, FL.
- Sherwood, E. et al. (24 authors). 2008. Tampa Bay tidal tributary habitat initiative project; Final report and management recommendations. Technical report submitted to the Pinellas County Environmental Fund, Washington, DC.
- Sherwood, E. et al. (22 authors). 2008. Public summary document to accompany the Tampa Bay tidal tributary habitat initiative project; Final report and management recommendations. Report submitted to the Pinellas County Environmental Fund, Washington, DC.
- Greenwood, M.F.D., E.B. Peebles, S.E. Burghart, T.C. MacDonald, R.E. Matheson, Jr., R.H. McMichael, Jr. 2008. Freshwater inflow effects on fishes and invertebrates in the Chassahowitzka River and estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2008. Freshwater inflow effects on fishes and invertebrates in the Little Manatee River estuary; An update of data analyses. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Malkin, E.M., E.B. Peebles and D.J. Hollander. 2007. Stable isotope analysis of Tampa Bay tidal tributary and tidal creek ecosystems. Technical report submitted to the Tampa Bay Estuary Program, St. Petersburg, FL.
- Tolley, S.G., E.B. Peebles, S.E. Burghart, B. Bachelor, J. Evans, and J. Nelson. 2007. Freshwater inflow and utilization of the estuarine tributaries of Estero Bay. Technical report submitted to the South Florida Water Management District, West Palm Beach, FL.
- English, D.C., R.W. Kitzmiller, and **E.B. Peebles**. 2007. Bio-optical properties of the tidal Alafia River; Comparisons with bay anchovy distribution. Technical report submitted to Tampa Bay Water, Inc., Clearwater, FL.
- Peebles, E.B.**, M.D.F. Greenwood, T.C. MacDonald, S.E. Burghart, R.E. Matheson, Jr., and R.H. McMichael, Jr. 2006. Freshwater inflow effects on fishes and invertebrates in the Dona and Roberts Bay estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.**, T.C. MacDonald, M.F.D. Greenwood, R.E. Matheson, Jr., S.E. Burghart, and R.H. McMichael, Jr. 2006. Freshwater inflow effects on fishes and invertebrates in the Myakka River and Myakkahatchee Creek estuaries. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.

- Greenwood, M.D.F., E.B. Peebles, T.C. MacDonald, S.E. Burghart, R.E. Matheson, Jr., and R.H. McMichael, Jr. 2006. Freshwater inflow effects on fishes and invertebrates in the Anclote River estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- MacDonald, T.C., E.B. Peebles, M.F.D. Greenwood, R.E. Matheson, Jr., and R.H. McMichael, Jr. 2005. Freshwater inflow effects on fishes and invertebrates in the Hillsborough River estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2005. An analysis of freshwater inflow effects on the early stages of fish and their invertebrate prey in the Alafia River estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2005. Review of feeding habits of juvenile estuarine-dependent fishes and blue crabs: identification of important prey. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Matheson, R.E., Jr., E.B. Peebles, S.E. Burghart, T.C. MacDonald, M.F.D. Greenwood, R.H. McMichael, Jr. 2005. Freshwater inflow effects on fishes and invertebrates in the Weeki Wachee River estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Hollander, D.J. and **E.B. Peebles**. 2004. Estuarine nursery function of tidal rivers in west-central Florida: ecosystem analyses using multiple stable isotopes. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2004. An analysis of fish and invertebrate data related to the establishment of minimum flows for the Tampa Bypass Canal. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2002. An assessment of the effects of freshwater inflows on fish and invertebrate habitat use in the Alafia River estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2002. An assessment of the effects of freshwater inflows on fish and invertebrate habitat use in the Peace River and Shell Creek estuaries. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 2002. An assessment of the effects of freshwater inflows on fish and invertebrate habitat use in the Manatee-Bradley estuary. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.
- Peebles, E.B.** 1999. An assessment of the effects of freshwater inflows on fish and invertebrate habitat use in the Manatee River, Braden River, Peace River and Shell Creek estuaries. First contract period: April 1997 – June 1998. Volume I of II: monthly monitoring. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.

**Peebles, E.B.** 1999. An assessment of the effects of freshwater inflows on fish and invertebrate habitat use in the Manatee River, Braden River, Peace River and Shell Creek estuaries. First contract period: April 1997 – June 1998. Volume II of II: High resolution event monitoring: Studies of inflow effects on spawning and growth of the bay anchovy. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.

Water and Air Research, Inc., SDI Environmental Services (one of seven preparers) 1995. Tampa Bypass Canal and Hillsborough River hydro-biological monitoring program. Technical report submitted to West Coast Regional Water Supply Authority, Clearwater, FL.

**Peebles, E.B.** and T.L. Hopkins. 1993. Feeding habits of eight fish species from Tampa Bay, with observations on opportunistic predation. Technical report submitted to the Florida Marine Research Institute (Fisheries Statistics Section), St. Petersburg, FL.

**Peebles, E.B.** and M.S. Flannery. 1992. Fish nursery use of the Little Manatee River estuary: The role of freshwater discharge. Technical report submitted to the Southwest Florida Water Management District, Brooksville, FL.

#### Book Chapters:

**Peebles E.B.** and D.J. Hollander. 2020. Combining isoscapes with tissue-specific isotope records to re-create the geographic histories of fish. pp: xx-xx, In: Murawski S.A., Ainsworth C., Gilbert S., Hollander D., Paris C.B., Schlüter M., Wetzel D. (Eds.) *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War*. Springer ISBN 978-3-030-12963-7, 290 pp

**Peebles, E.B.** (chair of revision committee), M. Greenwood, D. Klemm, J Krebs, M. Peterson, C. Rakocinski, G. Tolley. and J. Whitlock. 2012. *Fishes*, in *Standard Methods for the Examination of Water and Wastewater*, 22<sup>nd</sup> edition, American Public Health Association, American Water Works Association, Water Environment Federation.

#### Public Education Posters and Scientific Photo Credits:

Peebles, E.B. 2007. *Florida's Inshore Fish*. Public-education poster published by the Florida Fish and Wildlife Conservation Commission.

Peebles, E.B. 2007. *Florida's Sporting Jacks*. Public-education poster published by the Florida Fish and Wildlife Conservation Commission.

Peebles, E.B. 2003. Invertebrate micrographs (7), including frontispiece for chapter *Phylum Arthropoda: The Crustacea* in R.C. Brusca and G.J. Brusca. 2003. *Invertebrates* (2nd ed.), Sinauer Associates, Sunderland, MA

Peebles, E.B. 2002. *Common Baitfishes of Florida*. Public-education poster published by the Florida Fish and Wildlife Conservation Commission.

**Funded Research at the USF College of Marine Science (numbers rounded)**

My funding sources include NOAA, the RESTORE Act, state natural resource agencies, state water management agencies, and public utilities that fund research through international environmental engineering firms. I have served as Principal Investigator on 41 grants and contracts and Co-Principal Investigator on 9 others; total funding exceeds \$12 million.

Principal Investigator with Co-PIs Drs. Steve Murawski, Mya Breitbart, Chris Stallings, and Kevin Boswell. 2019-22

\$750,000 from Florida RESTORE Act Centers of Excellence Program (Florida Institute of Oceanography) to conduct annual fish-egg surveys on the West Florida Shelf along with a targeted study of fish spawning during 2020.

Principal Investigator with Co-PIs Drs. Steve Murawski, Mya Breitbart, Chris Stallings, Kevin Boswell, James Locascio, and David Chagaris. 2017-18

\$887,000 from Florida RESTORE Act Centers of Excellence Program (Florida Institute of Oceanography) to conduct pilot study of causes of variation in reef-fish recruitment on the West Florida Shelf.

Principal Investigator with Co-PI Dr. Mya Breitbart, 2015-17

\$129,000 from Florida RESTORE Act Centers of Excellence Program (Florida Institute of Oceanography) to use DNA barcoding to survey planktonic fish eggs along two transects that cross the Gulf of Mexico.

Co-Principal Investigator with PI Dr. Steve Murawski, 2015-17

\$311,000 subaward from C-IMAGE II to investigate elemental oil-markers in Gulf of Mexico fishes and to track fish site fidelity and movement using stable isotopes.

Principal Investigator, 2009-19

\$>2.7 million from NOAA National Marine Fisheries Service (via CIMAS), Support for the Marine Resource Assessment Program at the University of South Florida, College of Marine Science.

Co-Principal Investigator, 2014-15

\$21,000 subaward from FWC to relate community-level zooplankton/hyperbenthos variation among Florida estuaries to freshwater inflow and other environmental factors.

Principal Investigator, 2000-15

\$4.8 million (4 contracts) from Tampa Bay Water, Inc. (via Atkins North America); HBMP for the Tampa Bypass Canal/Alafia River water supply project.

Principal Investigator, 2014-15

\$30,000 from the Tampa Bay Estuary Program to develop biology-based numeric criteria for gauging the trophic state of tidal streams.

Principal Investigator, 2014

\$10,000 from the Florida Fish and Wildlife Commission to support an otolith microchemistry investigation of Common Snook habitat use within the Little Manatee River, Florida.

Principal Investigator, 1997-13

\$1.7 million (15 contracts) from the Southwest Florida Water Management District to study ichthyoplankton, invertebrate zooplankton and juvenile fish responses to freshwater inflow into the Manatee River, Braden River, Peace River, Shell Creek, Alafia River, Weeki Wachee River, Myakka River, Myakkahatchee Creek, Anclote River, Chassahowitzka River, Homosassa River, Crystal River and Dona/Roberts Bay estuaries. Data collection and analysis are coordinated with the Fisheries Independent Monitoring program of the Fish and Wildlife Research Institute.

Principal Investigator with Dr. David Jones (USF) and Dr. Ted Switzer (FWC), 2010-13  
\$340,000 from NOAA MARFIN; Use of otolith microchemistry to improve fisheries-independent indices of recruitment for Gag (*Mycteroperca microlepis*): Linking estuarine nurseries to nearshore reefs in the eastern Gulf of Mexico.

Principal Investigator, 2010-13  
\$85,000 from NOAA to investigate incorporation of environmental factors into stock assessments.

Principal Investigator with Co-PIs Dr. Carole McIvor (USGS) and Dr. Janet Ley (FWC), 2012  
\$32,000 from USGS; Resolving the habitat use of Common Snook (*Centropomus undecimalis*) and Red Drum (*Sciaenops ocellatus*) in the Tampa Bay estuary: An application of otolith elemental fingerprinting.

Principal Investigator with Dr. David Jones (USF), 2011  
\$21,000 from the National Fisheries Institute; Detecting fish oil-spill exposure using elemental crude-oil markers preserved in otoliths.

Principal Investigator, 2010-11  
\$27,000 from the Southwest Florida Water Management District; Database amendment and analysis update for the Peace River and Shell Creek estuaries under drought conditions.

Principal Investigator, 2010-11  
\$55,000 from the USGS; Defining Fish Nursery Habitats: An Application of Otolith Elemental Fingerprinting in Tampa Bay, Florida.

Principal Investigator, 2008-10  
\$49,000 (3 contracts) from Florida Gulf Coast University (FGCU) to use bio-optics and other sensors to study water-column and benthic processes associated with changes in net ecosystem metabolism of the Caloosahatchee River estuary under variable freshwater inflow conditions. This research is part of a collaborative effort with FGCU funded by the South Florida Water Management District and the US Dept. of Education.

Principal Investigator, 2007-09  
\$150,000 from Tampa Bay Estuary Program to determine areal extent, biogeochemical composition, source, age and ecological status of muck sediment accumulation in upper Tampa Bay. This research is part of a collaborative effort with geologists from USF, the USGS (Menlo Park, CA) and Eckerd College.

Principal Investigator, 2007-08  
\$28,000 from US Dept. of the Interior via the Fish and Wildlife Conservation Commission to conduct isotope-based trophic studies of Tampa Bay tidal streams.

Co-Principal Investigator with Dr. Tom Cuba (Delta Seven, Inc.), 2006-2008

\$60,000 from NOAA to study ecological effects of tidal flow restoration in Ft. DeSoto Park, Florida.

Principal Investigator, 2001-08

\$77,000 (3 contracts) from the Southwest Florida Water Management District to analyze plankton-net, seine and trawl data in regard to zooplankton and fish responses to freshwater inflow into the Alafia River, Hillsborough River, Little Manatee River and Tampa Bypass Canal/McKay Bay estuaries.

Co-Principal Investigator with Dr. David Hollander, 2006-07

\$31,000 from National Fish and Wildlife Foundation, Pinellas County Environmental Fund, via the Tampa Bay Estuary Program for stable isotope ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ) study of primary producer roles in fish production within Tampa Bay's tidal creeks.

Principal Investigator, 2005-07

\$78,000 from Florida Gulf Coast University to analyze ichthyoplankton and invertebrate zooplankton responses to freshwater inflow into Estero Bay, Florida.

Principal Investigator, 2005-06

\$16,000 from Tampa Bay Water, Inc. via PBS&J, Inc. to conduct in situ bio-optics transects of the tidal Alafia River.

Co-Principal Investigator with Dr. Thomas Cuba (Delta Seven, Inc.), 2004-06

\$60,000 from National Fish and Wildlife Foundation, Pinellas County Environmental Fund to study ecological effects of tidal flow restoration in Ft. DeSoto Park, Florida.

Co-Principal Investigator with Dr. David Hollander (USF), 2003-04

\$40,000 from the Southwest Florida Water Management District for stable isotope ( $\delta^{13}\text{C}$ ,  $\delta^{34}\text{S}$  and  $\delta^{15}\text{N}$ ) study of primary producer roles in estuarine fish nursery production, comparing oligotrophic, eutrophic and intermediate estuaries.

Co-Principal Investigator with Dr. Raymond Wilson (USF), 1992-95

\$81,000 from Water and Air Research, Inc. to process and analyze data from nighttime plankton-net surveys of the tidal Hillsborough River, McKay Bay and Tampa Bypass Canal.

Co-Principal Investigator with Dr. Thomas Hopkins (USF), 1991-92

\$131,000 from the Florida Marine Research Institute for diet analysis of Tampa Bay fishes.

Co-Principal Investigator with Dr. John Briggs (USF), 1987-91

\$126,000 from the Southwest Florida Water Management District for nighttime ichthyoplankton survey of tidal Little Manatee River, fish diet analysis, and assessment of spatial variation in biochemical composition (nutritional value) of estuarine surface sediments used by deposit-feeding fishes and invertebrates.

### **Service (non USF)**

2019 National Marine Fisheries Service and U.S. Fish and Wildlife Service via Anchor QEA (Seattle WA) – independent review of Biological Opinion for the coordinated long-term operation of the Central Valley Project and State Water Project (CA)

- 2019 U.S. Fish and Wildlife Service via Atkins (Jacksonville FL) – Section 7 peer review for the Central Valley and State Water Project (CA).
- 2018 National Marine Fisheries Service via Cardo, Inc. - assisted with impact assessment (ichthyoplankton entrainment quantification) for proposed natural-gas port on the St. John's River (Jacksonville, FL)
- 2018 Southwest Florida Water Management District via Water and Air Research, Inc. - performed plankton-sample processing and associated multivariate analysis to quantify effects of springwater augmentation of river streamflow on the community structure of zooplankton in the tidal Hillsborough River (Tampa, FL)
- 2017 Invited Participant, ORIGIN stable-isotope workshop, Snowbird, UT
- 2017 Technical Review Panelist for Maryland Sea Grant College, College Park, MD
- 2017 Chair of symposium entitled “Stable Isotope Analysis in Fisheries Ecology” convened at the annual meeting of the American Fisheries Society, August 20-24, Tampa FL
- 2017 Invited Participant, Environmental Sensitivity Index (ESI) mapping update for coastal and oceanic fishes, Quantum Spatial/Florida Fish and Wildlife Conservation Commission, St. Petersburg, FL
- 2017 Proposal Reviewer, Israeli Ministry of Science, Technology and Space
- 2011-2017 Scientific Review Panelist and report reviewer, Delta Science Program of the Delta Stewardship Council, Sacramento, CA
- 2015-pres. Associate Editor, *Gulf and Caribbean Research*
- 2016 Guest Editor, *Southeastern Naturalist*
- 2014-2015 Steering Committee, Bay Area Scientific Information Symposium 6 (BASIS6), Pinellas Park, FL
- 2014-2015 Pinellas County RESTORE Act, member of working panel and grant-selection subcommittee, Clearwater, FL
- 2015 NOAA NMFS Saltonstall-Kennedy Constituent Panelist, Fishery Management, St. Petersburg, FL
- 2014 Advisor, St. Petersburg Downtown Waterfront Master Plan
- 2013 Invited Participant, Water Quality Data Provider Workshop, Gulf of Mexico Coastal Observing System (GCOOS), New Orleans, LA
- 2013 Invited Participant, Pew Charitable Trust/International Game Fish Association, Florida Forage Fish Forum, Dania Beach, FL

- 2013 Proposal Reviewer, Tampa Bay Estuary Program, St. Petersburg, FL
- 2013 Invited Participant, Gulf of Mexico Alliance, Gulfwide Monitoring Workshop #2, Tallahassee, FL
- 2013 Panelist, Louisiana State University Center for Natural Resource Economics and Policy, Annual Conference (CNREP 2013), New Orleans, LA
- 2011-2013 Member, Gulf of Mexico Fisheries Management Council: Ecosystem Scientific and Statistical Committee, Tampa, FL
- 2011-2013 Member, Gulf of Mexico Fisheries Management Council: Special Mackerel Scientific and Statistical Committee, Tampa, FL.
- 2009-2012 Reviewer, National Research Council (NRC) reports, Water Science and Technology Board
- 2006-2012 Chair, Joint Task Group for Fishes (Section 10600), *Standard Methods for the Examination of Water and Wastewater*, published by the American Public Health Association/American Water Works Association/Water Environment Federation
- 2011 Community Service Award (recognition for initiating USF's response to the Deepwater Horizon oil spill). USF Town & Gown 2011, Tampa, FL
- 2011 Invited Participant, Chesapeake Research Consortium, plankton monitoring design workshop, Annapolis, MD.
- 2010 Proposal Reviewer, NOAA Watershed Education and Training Program, St. Petersburg, FL
- 2009 Proposal Reviewer, National Science Foundation (NSF)
- 2009 Peer-Review Panelist, Tampa Bay Area Scientific Information Symposium (BASIS5), St. Petersburg, FL
- 2009 Synthesis Committee Member, Tampa Bay Area Scientific Information Symposium (BASIS5), St. Petersburg, FL
- 2009 Proposal Reviewer, South Carolina Sea Grant
- 2009 Peer-review Panelist and Invited Speaker, Charlotte Harbor National Estuary Program Reservoirs Workshop, Punta Gorda, FL
- 2009 Member of Ministerial Delegation, Bahamian Government by way of Black and Veatch, Inc.; review of potential impacts to fisheries resources caused by planned development of mangrove habitat on North Bimini Island, Bahamas

- 2008-2009 Gulf of Mexico Alliance, member of Nutrient Pathways Workgroup and Nutrient Endpoints Workgroup, Stennis Space Center, MS
- 1999-2008 Proposal Reviewer, NOAA NMFS MARFIN and Saltonstall-Kennedy Programs, St. Petersburg, FL
- 2008 Consultant, Bahamian Government by way of Black and Veatch, Inc., assessment of potential impacts to fisheries resources caused by planned development of mangrove habitat on North Bimini Island, Bahamas
- 2008 Consultant and expert witness (as public service), St. Johns River Water Management District, on 1) freshwater withdrawal effects on downstream estuarine community structure and 2) ichthyoplankton entrainment into a proposed water treatment facility, Lake Mary, FL
- 2007-2010 Invited Participant, Gulf of Mexico Fisheries Management Council, Ecosystem Modeling Workshops, Ecosystem Scientific and Statistical Committee, St. Petersburg, FL
- 2004 Scientific Advisor, *Effects of Changes in Freshwater Inflows on Biological Resources of Tampa Bay Tributaries*. Tampa Bay Estuary Program Technical Publication #06-04.
- 1999-2002 NOAA NMFS MARFIN Program, external member of proposal evaluation committee, St. Petersburg, FL
- 2000-2001 Estuarine Research Federation 2001 Biennial Conference, steering committee member, St. Petersburg, FL
- 1999 NOAA National Undersea Research Program, proposal reviewer
- 1999 Tampa Bay Water, Inc. Assistance with design of hydro-biological monitoring program for monitoring impacts of freshwater diversions on the upper Tampa Bay estuary, St. Petersburg, FL
- 1996-1997 Tampa Bay National Estuary Program (EPA), member of minimum-flows advisory committee, salinity subcommittee, dissolved oxygen subcommittee, St. Petersburg, FL
- 1995 Southwest Florida Water Management District, consultant on quantitative projection of impacts on estuarine fish habitat caused by proposed freshwater withdrawals by a power plant, Brooksville, FL
- 1993 Tampa Bay National Estuary Program (EPA), scientific advisor, *Synthesis of Basic Life Histories of Tampa Bay Species*. TBNEP Technical Publication #10-92.

**USF Service Committees (College of Marine Science)**

2009-pres.	Ad-Hoc Marine Resource Assessment Committee (Chair)
2011-pres.	Honors and Awards Committee, Recruitment Committee, Ship Safety & Training Committee
2017-pres.	Alumni Coordinator
2016-2017	Integrated Marine Science Exam Committee
2016	Faculty Annual Evaluation Committee
2014-2016	Faculty Search Committees (2)
2015	Engineer Search Committee, Center for Ocean Technology
2010-2011	Faculty Search Committees (2)
2009-2011	Faculty Advisory Committee for USF Center for Ocean Technology (chair)

### **Selected Media Coverage (2010 oil spill)**

Boston Herald (May 31, 2010), *BP CEO Tony Hayward: Underwater plumes, what underwater plumes?*

[http://www.bostonherald.com/2010/05/bp\\_ceo\\_tony\\_hayward\\_underwater\\_plumes\\_what\\_underwater\\_plumes](http://www.bostonherald.com/2010/05/bp_ceo_tony_hayward_underwater_plumes_what_underwater_plumes)

Bloomberg Businessweek (June 4, 2010) by Cain Burdeau, *Lab tests confirm underwater layers of oil.*

<http://www.businessweek.com/ap/financialnews/D9G4NPVG0.htm>

Associated Press (June 4, 2010) *Current-tracking Florida professors caught in media undertow during Gulf oil spill.*

[http://blog.al.com/live/2010/06/current-tracking\\_florida\\_profe.html](http://blog.al.com/live/2010/06/current-tracking_florida_profe.html)

New York Times (June 8, 2010) by Justin Gillis, *Plumes of oil below surface raise new concerns.*

[http://www.nytimes.com/2010/06/09/us/09spill.html?\\_r=0](http://www.nytimes.com/2010/06/09/us/09spill.html?_r=0)

Science (June 9, 2010) by Erik Stokstad, *Huge oil plumes confirmed, but effects remain unknown.*

<http://news.sciencemag.org/2010/06/huge-oil-plumes-confirmed-effects-remain-unknown>

Bloomberg Businessweek (June 9, 2010) by Jessica Resnick-Ault, *Toxic undersea oil plumes lurk in Gulf of Mexico.*

<http://www.businessweek.com/news/2010-06-08/toxic-undersea-oil-plumes-lurk-in-gulf-of-mexico-update2-.html>

Science Daily (June 9, 2010) *Subsurface oil from Deepwater Horizon spill in Gulf of Mexico, say researchers.*

<http://www.sciencedaily.com/releases/2010/06/100609102703.htm>

PBS Newshour (June 30, 2010) by Lea Winerman, *EPA says dispersants safe for aquatic life, but controversy remains.*

<http://www.pbs.org/newshour/rundown/epa/>

PBS Newshour (June 30, 2010) by Tom Bearden, *Scientists probe the ocean depths to gauge Gulf oil spill damage.*

[http://www.pbs.org/newshour/bb/science-jan-june10-science\\_06-30/](http://www.pbs.org/newshour/bb/science-jan-june10-science_06-30/)

CBS News (July 8, 2010), *Gulf slick dissipates, but where's oil going?*

<http://www.cbsnews.com/news/gulf-slick-dissipates-but-wheres-oil-going/>

Scholars at Risk Network (July 09, 2010) by Lindsay Peterson, *Oil-crisis research casts USF into political waters.*

[http://scholarsatrisk.nyu.edu/Events-News/Article-Detail.php?art\\_uid=2209](http://scholarsatrisk.nyu.edu/Events-News/Article-Detail.php?art_uid=2209)

Bloomberg Businessweek (July 28, 2010) by Cain Burdeau, *Gulf flow has stopped, but where's the oil?*

<http://www.businessweek.com/ap/financialnews/D9H82D880.htm>

USA Today (December 18, 2010) *Coast Guard: Little seafloor oil from Gulf spill.*

[http://usatoday30.usatoday.com/news/nation/2010-12-18-gulf\\_N.htm](http://usatoday30.usatoday.com/news/nation/2010-12-18-gulf_N.htm)

## Teaching Experience

- |              |  |
|--------------|--|
| 2009-present | Associate Professor of Biological Oceanography, teaching graduate-level course <i>Biological Oceanography</i> and guest lecturing in <i>Fish Biology</i> and <i>Fish Population Dynamics</i> , University of South Florida, College of Marine Science, St. Petersburg, Florida |
| 2006-present | Adjunct Graduate Faculty, Florida Gulf Coast University, Dept. of Marine and Ecological Sciences, Ft. Myers, Florida   |
| 1995-2012    | Guest lecturer, graduate-level courses: <i>Biological Oceanography</i> , <i>Estuarine Ecology</i> ,  |

*Physical-Biological Interactions, Dynamics of Marine Ecosystems*, University of South Florida, College of Marine Science St. Petersburg, Florida

- 2004-2011 Guest lecturer, graduate-level course *Estuarine Ecology* at Florida Gulf Coast University, Department of Marine and Ecological Sciences, Ft. Myers, Florida
- 1997-2001 Adjunct Graduate Faculty, University of Southern Mississippi, Dept. of Coastal Sciences, Ocean Springs, Mississippi
- 1996-1998 Summer Faculty, design and teaching of undergraduate course and associated lab: *Marine Biology II*. University of Southern Mississippi, Department of Coastal Sciences (GCRL). Ocean Springs, Mississippi

**Graduate Committees** (57 total; all at USF College of Marine Science except where indicated; graduated students' last known employment location is also indicated)

I have graduated 5.0 doctoral students and 6.0 Master's students (each service as co-chair is counted as 0.5 student).

Ongoing Doctoral:

Brianna Michaud, 2017-present (Dissertation Chair)  
Julie Vecchio, 2015–present (Dissertation Chair)  
Michael Murphy, 2011–present (Dissertation Chair)  
Nasser Al-Qattan (USF Dept. of Geology), 2017-present  
Kelly Vasbinder, 2015-present  
Susan Snyder, 2015–present  
Marcy Cockrell, 2015-present  
Lindsey Dornberger, 2015–present  
Emily Chancellor, 2015–present  
Elizabeth Herdter, 2015–present  
Michael Drexler, 2011–present

Graduated Doctoral:

Amy Wallace, graduated fall 2019 (Dissertation Chair), post-doc at UF  
Jennifer Granneman– graduated spring 2018 (Dissertation Chair, with Dr. Steven Murawski as Co-Chair), Florida FWC, St. Petersburg, FL  
Josh Kilborn–graduated fall 2017 (Dissertation Co-Chair, with Dr. David Naar as Chair), post-doc at USF  
Holly Rolls–graduated summer 2014 (Dissertation Chair), Florida FWC, St. Petersburg, FL  
Kara Radabaugh–graduated spring 2013 (Dissertation Chair), USF St. Petersburg and Florida FWC, St. Petersburg, FL  
Elon Malkin– graduated fall 2010 (Dissertation Co-Chair with Dr. David Hollander as Chair), US Food and Drug Administration, Winchester, MA  
Zachary Dixon (USF Department of English), graduated summer 2016, Embry-Riddle Aeronautical University, worldwide campus  
Danielle Greenhow–graduated summer 2013  
Erica Hudson Ombres,– graduated spring 2013  
Eloy Martinez–graduated spring 2013

Carrie Wall–graduated summer 2012  
Greg Ellis–graduated spring 2012, USF CMS  
Camille Daniels–graduated fall 2011, KAUST, Saudi Arabia  
Enrique Montes-Herrera–graduated fall 2011, USF  
Sarine Manoukian–graduated spring 2011, National Research Council (CNR) Institute of Marine Sciences (ISMAR), Ancona, Italy  
Kathryn Guindon–graduated spring 2011; Florida FWC, St. Petersburg, FL  
Jim Locascio–graduated spring 2010; Mote Marine Laboratory, Sarasota, FL  
Hussein Al-Mutairi–graduated fall 2009; Kuwait University, Kuwait  
Karen Burns–graduated spring 2009; Gulf of Mexico Fisheries Management Council, Tampa, FL (deceased)  
Justin Krebs (USF Integrative Biology) –graduated fall 2011; Janicki Environmental, Hampstead, MD  
Greg Fulling (University of Southern Mississippi) – graduated spring 2001; Geo-Marine, Inc., Plano, TX

#### Ongoing Master's:

Bich Vi Nguyen, 2017-present (Thesis Chair)  
Michael Poniatowski, 2017-present (Thesis Chair)  
Meaghan Faletti, 2016-present  
Oscar Ayala, 2015–present

#### Graduated Master's:

Brenna Meath, graduated fall 2017 (Thesis Co-Chair with Dr. Heather Judkins), USFSP  
Brianna Michaud, 2016 (Thesis Chair), continuing as doctoral student at USF  
Brock Houston, graduated fall 2015 (Thesis Chair), YSI, Inc., St. Petersburg, FL  
Sheri Heulster, graduated summer 2015 (Thesis Chair), Cardno, Inc., Tampa, FL  
Beverly Sauls, graduated fall 2013 (Thesis Chair), Florida FWC, St. Petersburg, FL  
Catherine Bruger, graduated fall 2013 (Thesis Chair), NOAA Fisheries SERO, St. Petersburg, FL  
Sky Williams, graduated fall 2013 (Thesis Co-Chair with Dr. Kendra Daly), Saltwater, Inc., Berkley, MI  
Joseph Curtis, graduated fall 2016, UC Santa Barbara, CA  
Emily Chancellor, graduated spring 2015, continuing as doctoral student at USF  
Robert Hardy–graduated fall 2014, Florida FWC, St. Petersburg, FL  
Brittany Hall–graduated summer 2014, Florida FWC, St. Petersburg, FL  
Brendan O'Connor–graduated summer 2013, Florida FWC, Lakeland, FL  
Sheila O'Dea–graduated summer 2012–Florida FWC, St. Petersburg, FL  
Adam Brame–graduated spring 2012, NOAA Fisheries SERO, St. Petersburg, FL  
Claudia Barón-Aguilar–graduated fall 2011  
Kelley Kowal–graduated fall 2010, Florida FWC, St. Petersburg, FL  
Misty Nelson–graduated spring 2010  
Katie Rathmell–graduated spring 2007, Center for Coastal Margin Observation & Prediction, Beaverton, OR  
Brooke Black (Florida Gulf Coast University), graduated summer 2015, Florida Dept. of Environmental Protection  
James Evans (Florida Gulf Coast University)–graduated spring 2011, City of Sanibel, FL  
Bethany Bachelor Brosious (Florida Gulf Coast University)–graduated summer 2010, Passarella & Assoc., Inc., Ft. Myers, FL

#### **Sponsorship of International Visiting Scholars (5 total)**

Nirlei Hirachy Costa Barros (2017-18)–Universidade Federal do Rio Grande do Norte, Brazil  
Claire Coiraton (2017)–Instituto de Ciencias del Mar y Limnología, Mazatlan, Mexico  
Chuan-xin Qin (2016-17)–South China Sea Fisheries Research Institute of the Chinese Academy of  
Fishery Science (Chinese Scholarship Council fellow; sponsorship is in association with Mote  
Marine Laboratory)  
Nirlei Hirachy Costa Barros (2014-15)–Universidade Federal do Rio Grande do Norte, Brazil  
Qian Ma (2013-14)–Yellow Sea Fisheries Research Center, China (sponsorship was in association with  
Mote Marine Laboratory)  
Paula Caldentey (2013-14)–Universidad de Las Palmas de Gran Canaria, Spain (sponsorship was in  
association with Mote Marine Laboratory)

**Journal Article Reviewer** (18 journals)

*Science of the Total Environment*  
*Journal of Experimental Marine Biology and Ecology*  
*Geochimica et Cosmochimica Acta*  
*Marine Ecology Progress Series*  
*Estuarine, Coastal and Shelf Science*  
*Marine and Freshwater Research*  
*Estuaries/Estuaries and Coasts*  
*Journal of Fish Biology*  
*Fishery Bulletin*  
*Transactions of the American Fisheries Society*  
*North American Journal of Fisheries Management*  
*Journal of Aquatic Living Resources*  
*Fish and Fisheries*  
*Bulletin of Marine Science*  
*Gulf and Caribbean Research*  
*Neotropical Ichthyology*  
*Regional Studies in Marine Science*  
*Florida Scientist*

**Presentations** (120 total)

Peebles, E.B. Overview of FLRACEP’s SHELF project: Spawning habitat and early-life linkages to fisheries. 2020 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 3-7, Tampa, FL (invited)

Murawski, S.A., J. Kilborn, L. DiPinto, D. Chagaris, D. Donaldson, J. Litz, T. MacDonald, C. Newton, E.B. Peebles, K. Robinson, and L. Schwacke. On the resilience of coastal/nearshore living resources to *Deepwater Horizon*: A harbinger of future coastal restoration efforts? 2020 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 3-7, Tampa, FL

Peebles, E.B. Hindsight is 20/20: Using eye-lens isotopes to create lifetime trophic geographies for individual fish. University of Florida IFAS Nature Coast Biological Station, October 18<sup>th</sup>, 2019, Cedar Key, FL (invited seminar)

- Murawski, S.A., E.B. Peebles, A. Gracia, J.W. Tunnell, Jr., and M. Armenteros. On the connectivity of Gulf of Mexico fish populations - the Importance of a “One Gulf” perspective. 2019 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 4-7, New Orleans, LA
- Peebles, E.B., S.A. Huelster, A.A. Wallace, B.C. Michaud, S.A. Murawski, and D.J. Hollander. Fish-based isoscapes for the American, Mexican and Cuban continental-shelf habitats of the Gulf of Mexico. 2018 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 5-8, New Orleans, LA
- Peebles, E.B., K. Boswell, M. Breitbart, D. Chagaris, J. Locascio, S. Murawski, C. Stallings. Spawning habitat and early-life linkages to fisheries (SHELF). Florida Restore Act Center of Excellence Program third annual meeting, October 26-27, 2017, St. Pete Beach, FL (invited)
- Peebles, E.B., M. Breitbart. Egg and larval DNA barcoding to support Gulf reef-fish stock assessments. Florida Restore Act Center of Excellence Program third annual meeting, October 26-27, 2017, St. Pete Beach, FL (invited)
- Burrows, M., J.S. Browning, M. Breitbart, E.B. Peebles. Egg and larval DNA barcoding to support Gulf reef-fish stock assessments. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Granneman, J.E., E.B. Peebles. Validation of the use of fish eye lenses to record trophic changes over time. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Kurth, B., C. Stallings, E. Peebles. Backcountry habitat dependence, ontogenetic habitat shifts, and foraging system fidelity of Atlantic Tarpon (*Megalops atlanticus*). American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Michaud, B.C., D.L. Jones, T.C. MacDonald, M.S. Flannery, E.B. Peebles. Fish and invertebrate habitat analysis; the confounding effects of spatial scale and covarying environmental gradients. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Murawski, S., E. Peebles, A. Gracia, J.W. Tunnell, Jr. How resilient are Gulf of Mexico shelf fish communities to large-scale disturbances? American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Peebles, E.B., S.A. Huelster, A.A. Wallace, B.C. Michaud, S. Murawski, D.J. Hollander. Fish-based isoscapes for continental-shelf waters of the entire Gulf of Mexico. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Stallings, C., J. Curtis, M. Faletti, J. Granneman, J. Peake, E. Peebles, K. Wall. Production and resource use on paired artificial-natural reefs. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Stallings, C., A. Mickle, J. Nelson, O. Tzadik, G. Ellis, D. Hollander, E. Peebles, E. Goddard, N. Jue, C. Koenig. Consistent trophic ontogenies among local populations despite geographic heterogeneity in diets. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL

- Vecchio, J.L., E.B. Peebles. The "carbon bump" phenomenon in reef-fish eye lens  $\delta^{13}\text{C}$  reconstructions: An indicator of ontogenetic trophic shifts? American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Vecchio, J.L., E.B. Peebles. Using  $\delta^{15}\text{N}$  disequilibria to infer short-term, latitudinal movement in the post-settlement stages of two reef-fish species. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL (poster)
- Wallace, A.A., G. Ellis, D. Hollander, E.B. Peebles. Lifetime changes in trophic level, as determined from compound-specific amino acid analysis of  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  within isolated eye-lens layers. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL
- Wallace, A.A., J.L. Vecchio, J.E. Granneman, C.D. Stallings, E.B. Peebles. Overview of fish eye lenses as lifetime isotopic recorders. American Fisheries Society Annual Meeting, August 20-24, 2017, Tampa, FL (poster)
- Murawski, S.A., E.B. Peebles, A. Gracia. Fish community structure and resilience to large-scale perturbations: comparisons of Gulf ecosystems. 2017 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 6-9, New Orleans, LA
- Peebles, E.B., K. Boswell, M. Breitbart, D. Chagaris, J. Locascio, S. Murawski, C. Stallings. Spawning habitat and early-life linkages to fisheries (SHELF). Florida Restore Act Center of Excellence Program second annual meeting, October 27-28, 2016, St. Pete Beach, FL (invited)
- Peebles, E.B., M. Breitbart. Egg and larval DNA barcoding to support Gulf reef-fish stock assessments. Florida Restore Act Center of Excellence Program second annual meeting, October 27-28, 2016, St. Pete Beach, FL (invited)
- Granneman, J.E., D.L. Jones, S.A. Murawski, E.B. Peebles. Association of oil-related trace metals with lesioned fish collected after the *Deepwater Horizon* oil disaster. Florida Restore Act Center of Excellence Program second annual meeting, October 27-28, 2016, St. Pete Beach, FL (1<sup>st</sup> place, poster competition)
- Wallace, A.A., E.B. Peebles, D.J. Hollander, S.A. Murawski, J.E. Granneman, J.L. Ostroff, G.S. Ellis. New forensic methods for describing the histories of fish. Florida Restore Act Center of Excellence Program second annual meeting, October 27-28, 2016, St. Pete Beach, FL (2<sup>nd</sup> place, poster competition)
- Vecchio, J.L., E.B. Peebles. Combining ontogenetic & historic perspectives when interpreting natural tags. Florida Restore Act Center of Excellence Program second annual meeting, October 27-28, 2016, St. Pete Beach, FL (3<sup>rd</sup> place, poster competition)
- Tzadik, O., J. Curtis, J. Granneman, B. Kurth, T. Pusack, A. Wallace, D. Hollander, E. Peebles, C. Stallings. Chemical archives in fishes beyond otoliths: A review on the use of other body parts as chronological recorders of chemical constituents. ICES Annual Science Conference, September 19-23, 2016, Riga, Latvia.

- Granneman, J.E., D.L. Jones, S.A. Murawski, E.B. Peebles. Association of oil-related trace metals with lesioned fish collected after the *Deepwater Horizon* oil disaster. 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 1-4, Tampa, FL (poster)
- Granneman, J.E., D.L. Jones, S.A. Murawski, E.B. Peebles. Association of oil-related trace metals with lesioned fish collected after the *Deepwater Horizon* oil disaster, 2016 Annual Meeting of the Florida Chapter of the American Fisheries Society, March 2-4, Haines City, FL
- Murawski, S.A., A. Gracia, E.B. Peebles, E. Pulster, S. Snyder, W. Tunnell. Tails of Two Spills: Comparison of marine fish communities in the aftermath of Deepwater Horizon and IXTOC-I. 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 1-4, Tampa, FL
- Wallace, A.A., G. Ellis, D.J. Hollander, E.B. Peebles. New forensic methods for describing the histories of fish. 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 1-4, Tampa, FL
- Peebles, E.B. and M. Breitbart. Egg and larval DNA barcoding to support Gulf reef-fish stock assessments. Florida Restore Act Center of Excellence Program first annual meeting, November 5-6, 2015, St. Pete Beach, FL (invited)
- Michaud, B., E.B. Peebles and T.C. MacDonald. The influence of anthropogenic and physical effects on zooplankton and hyperbenthos community structure: a comparison of west-central Florida estuaries. 6th Bay Area Scientific Information Symposium (BASIS 6). September 28-30, 2015, St. Petersburg, FL
- Huelster, S.A. and E.B. Peebles. Comparison of isotope-based pathways with groundfish community structure in the eastern Gulf of Mexico. 6th Bay Area Scientific Information Symposium (BASIS 6). September 28-30, 2015, St. Petersburg, FL
- Houston, B.C. , S.A. Murawski, E.A. Southard and E.B. Peebles. Baseline information for otolith microchemistry obtained from pre-Columbian middens. 6th Bay Area Scientific Information Symposium (BASIS 6). September 28-30, 2015, St. Petersburg, FL
- Granneman, J.E., D.L. Jones, S.A. Murawski and E.B. Peebles. Comparison of otolith microchemistry in Gulf of Mexico lesioned and healthy fish following the *Deepwater Horizon* oil spill. 6th Bay Area Scientific Information Symposium (BASIS 6). September 28-30, 2015, St. Petersburg, FL (poster)
- Wallace, A.A., G.S. Ellis, J.E. Granneman, D.J. Hollander and E.B. Peebles. New forensic methods for describing the histories of fish. 6th Bay Area Scientific Information Symposium (BASIS 6). September 28-30, 2015, St. Petersburg, FL (poster)
- Houston, B.C., E.B. Peebles and S.W. Murawski. Comparison of otolith-based growth rates and microchemistry in red drum before, during, and after the *Deepwater Horizon* oil spill. American Fisheries Society Annual Meeting, August 16-20, 2015, Portland OR

- Chancellor, E, S.W. Murawski, E.B. Peebles, J. Lyczkowski-Shultz, and C. Paris-Limouzy. Vulnerability of fish larvae populations to an oil well blowout in the Gulf of Mexico. 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 16-19, Houston, TX
- Fenton, J.L., E.B. Peebles and D.J. Hollander. Isotopic comparison of the eye lens with other tissues in Golden Tilefish: New proxies for site fidelity and trophic position of oil exposed fish. 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference, February 16-19, Houston, TX (poster)
- Houston, B.C., E.B. Peebles and S.A. Murawski. Comparison of otolith-based growth rates and microchemistry in inshore fish before, during, and after the *Deepwater Horizon* oil spill. 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference. February 16-19, Houston, TX (poster)
- Murawski, S.A. and E.B. Peebles. Dynamics of demersal fish communities on the northern Gulf of Mexico continental shelf (poster). 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference. February 16-19, Houston, TX
- Wallace, A.A., G.S. Ellis, D.J. Hollander and E.B. Peebles. Stable isotopes in fish eye lenses as potential recorders of trophic and geographic history. 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference. February 16-19, Houston, TX
- Granneman, J.E., D.L. Jones, S.A. Murawski and E.B. Peebles. Detecting interannual shifts in otolith microchemistry before, during and after the Deepwater Horizon oil spill. 5<sup>th</sup> International Otolith Symposium, October 20-24, 2014, Mallorca, Spain
- Kilborn, J.P., D.L. Jones and E.B. Peebles. Detection of unique multispecies demersal fish communities in high-diversity systems and modeling the role of environment on their stability. ICES Annual Science Conference 2014, September 15-19, Coruña, Spain
- Fenton, J, E.B. Peebles and D.J. Hollander. Species and tissue specific turnover and oil depuration rates of fishes in the Gulf of Mexico. Florida Chapter of the American Fisheries Society, February 18-20, 2014, Altoona, FL (poster)
- Granneman, J.E., D.L. Jones, S.A. Murawski and E. B. Peebles. Detecting trace element anomalies in offshore fish otoliths coincident with the Deepwater Horizon oil spill. Annual meeting, Florida Chapter of the American Fisheries Society, February 18-20, 2014, Altoona, FL (poster)
- Houston, B.C., E.B. Peebles and S.A. Murawski. Comparison of otolith-based growth rates and microchemistry in inshore fish before, during, and after the Deepwater Horizon oil spill. Annual meeting, Florida Chapter of the American Fisheries Society, February 18-20, 2014, Altoona, FL (poster)
- Wallace, A.A., D.J. Hollander and E.B. Peebles. Stable isotopes in fish eye lenses as internal recorders of geographic site fidelity and movement. Annual meeting, Florida Chapter of the American Fisheries Society, February 18-20, 2014, Altoona, FL

- Fenton, J., E.B. Peebles and D.J. Hollander. Species and tissue-specific turnover and oil depuration rates of fishes in the Gulf of Mexico. 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, January 27-29, Mobile, AL (poster)
- Granneman, J.E., D.L. Jones, S.A. Murawski and E.B. Peebles. Detecting trace element anomalies in offshore fish otoliths coincident with the DWH oil spill. 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, January 27-29, Mobile, AL (poster)
- Houston, B., E.B. Peebles and S.A. Murawski. Comparison of otolith-based growth rates and microchemistry in inshore fish before, during, and after the DWH oil spill. 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference, January 27-29, Mobile, AL (poster)
- Kilborn, J.P., E.B. Peebles and D.L. Jones. Clustering methods for assigning community types, spatial distributions, and habitat associations to multispecies benthic fish communities on the West Florida Shelf, eastern Gulf of Mexico. ICES Annual Science Conference 2013, September 23-27, Reykjavik, Iceland
- Rolls, H., D.L. Jones, C.C. McIvor, J.A. Ley and E.B. Peebles. Urbanized juvenile habitats support recreational fisheries in the Tampa Bay estuary, Florida: Evidence from otolith elemental fingerprinting of common snook (*Centropomus undecimalis*) and red drum (*Sciaenops ocellatus*). ICES Annual Science Conference 2013, September 23-27, Reykjavik, Iceland
- Peebles, E.B. Keynote address entitled *A discussion of alternative biomass pathways in coastal wetland ecosystems*, LSU Student Wetland Society Symposium, February 15, 2013, Baton Rouge, LA (invited)
- Murawski, S.A., W. Hogarth, E.B. Peebles, A.A. Wallace, T. Cody, J. Landsberg et al. An overview of fish health indicators in offshore waters of the Gulf of Mexico. 2013 Gulf of Mexico Oil Spill & Ecosystem Science Conference, January 21-23, 2013, New Orleans, LA
- Romero, I.C., D.J. Hollander, W. Patterson, E. Quintana-Rizzo, A. Kane, S. Murawski, S.W. Ross, E.B. Peebles, E.A. Goddard and J.J. Torres. Spatio-temporal concentrations and composition of polycyclic aromatic hydrocarbons in fish: Evidence for DWH oil spill impact on upper trophic levels in the Gulf of Mexico. 2013 Gulf of Mexico Oil Spill & Ecosystem Science Conference, January 21-23, 2013, New Orleans, LA
- Romero, I., D.J. Hollander, W. Patterson, S.W. Ross, A.S. Kane, S. Murawski, S., et al. Spatio-temporal concentrations and composition of polycyclic aromatic hydrocarbons in fish: Evidence for DWH oil spill impact on mesopelagic and outer shelf-reef fish in the Gulf of Mexico. 2013 Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA, January 21-23, 2013.
- Peebles, E.B. Emerging insights into the large-scale ecosystem effects of the Deepwater Horizon oil spill. "Salty Topics" Lecture Series, Weedon Island Cultural and Natural History Center, October 4, 2012, St. Petersburg, FL (invited)
- Romero, I., D.J. Hollander, W. Patterson, E. Quintana-Rizzo, A. Kane, S.A. Murawski, E.B. Peebles and J. J. Torres. Organic geochemical signatures of the DWH oil spill in the Gulf of Mexico: Potential

ecologic consequences in fish communities. Gordon Research Conference on Organic Geochemistry. July 29-August 3, 2012, Holderness, NH

Peebles, E. B. Keynote address for symposium entitled *Fish habitat use over environmental gradients: Response or selection?* Annual meeting, Florida Chapter of the American Fisheries Society, February 21-23, 2012, Altoona, FL (invited)

Van Woudenberg, L., C. Daniels, S. Burghart, R. Kitzmiller, E. Peebles and M. Breitbart. Genetic identification of single fish eggs for a community analysis of fish spawning in Terra Ceia Bay, Florida. Annual meeting, Florida Chapter of the American Fisheries Society, February 21-23, 2012, Altoona, FL

Ellis, G., D.J. Hollander and E.B. Peebles. Detection of ontogenetic diet shifts using amino acid nitrogen isotopes: A case study of silver perch (*Bairdiella chrysoura*) in Tampa Bay, Florida (poster). Ocean Sciences Meeting (AGU, ASLO), February 20-24, 2012, Salt Lake City, UT

English, D., C. Hu, B. Barnes, J. Ivey, E. Peebles, S. Murasko, C. Kovach and C. Lembke. In-situ optical scattering and fluorescence measurements for real-time detection of dispersed oil in waters near the deepwater horizon oil spill. Ocean Sciences Meeting (AGU, ASLO), February 20-24, 2012, Salt Lake City, UT

Radabaugh, K.R. and E.B. Peebles. Fluorometry-based detection of freshwater inflow effects on estuarine phytoplankton deposition (poster). Ocean Sciences Meeting (AGU, ASLO), February 20-24, 2012, Salt Lake City, UT

Romero, I.C., D. J. Hollander, W. Patterson, E. Quintana-Rizzo, A. Kane, S.A. Murawski, E.B. Peebles, G. Ellis, E. A. Goddard, N. Zenzola, Z. Means and J. J. Torres. Organic geochemical evidence for oil spill impacts on fish in the Gulf of Mexico: Comparative and quantitative analyses of polycyclic aromatic hydrocarbons (poster). Ocean Sciences Meeting (AGU, ASLO), February 20-24, 2012, Salt Lake City, UT

Hollander, D.J., K. Freeman, G. Ellis, A. Diefendorf, E.B. Peebles and J. Paul. Long-lived, sub-surface layers of toxic oil in the deep-sea: A molecular organic and isotopic geochemical approach to understanding their nature, molecular distribution, origin and impacts to the northern Gulf of Mexico. AGU Fall meeting, December 5-9, 2011, San Francisco, CA

Radabaugh, K.R., A. A. Wallace, S.A. Huelster, D.J. Hollander and E.B. Peebles. Comparison of vertebral  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  records with organism-based isoscapes to identify fish migration, site fidelity and food-web preferences of fishes in the eastern Gulf of Mexico, USA. AGU Fall meeting, December 5-9, 2011, San Francisco, CA

Rolls, H., D.L. Jones, C.C. McIvor, J.A. Ley and E.B. Peebles. Resolving the relative importance of fish nursery habitats using otolith elemental fingerprinting (poster). Coastal and Estuarine Research Federation 21<sup>st</sup> Biennial Conference, November 6-10, 2011, Daytona Beach, FL

Tolley, S.G., M.L. Parsons, D.C. Fugate, B.A. Denkert, J.M. Neurohr, K. Radabaugh, S.E. Burghart and E.B. Peebles. Managing freshwater inflow to optimize prey production for young estuarine-dependent fishes in the Caloosahatchee Estuary. Coastal and Estuarine Research Federation 21<sup>st</sup> Biennial Conference, November 6-10, 2011, Daytona Beach, FL

- Denkert, B.A., M.M. Andresen, S.E. Burghart, D. Fugate, E.B. Peebles and S.G. Tolley. Responses of zooplankton assemblages to variable freshwater inflow in the Caloosahatchee River and Estuary, Florida. Coastal and Estuarine Research Federation 21<sup>st</sup> Biennial Conference, November 6-10, 2011, Daytona Beach, FL
- Peebles, E., D. Jones, E.M. Malkin and S.A. Murawski. Otolith nickel and vanadium as lifetime markers of fish exposure to crude oil. Deepwater Horizon Oil Spill Principal Investigator (PI) Conference, National Science Foundation Joint Subcommittee on Ocean Science and Technology, October 24-25, 2011, St. Pete Beach, FL
- Hollander, D.J., G. Ellis, E.B. Peebles, J. Paul and E. Goddard. Characterizing the nature, molecular distribution and isotopic composition of sub-surface oil over space and time. FIO-BP's 10M PI's Meeting, September 2011, St. Petersburg, FL
- Radabaugh, K.R., S.A. Huelster, D.J. Hollander and E.B. Peebles. Application of  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  isoscapes to studies of fish site fidelity and basal resource variation on the West Florida Shelf (poster). Sept. 26-27, 2011; Isoscapes 2011, Purdue University, West Lafayette, IN
- Rolls, H., D. Jones, J. Ley, C. McIvor and E. Peebles. Resolving the relative importance of fish nursery habitats using otolith elemental fingerprints. ICES Annual Science Conference 2011, Sept. 19-23; Gdansk, Poland (student presenter received Early Career Scientist Award).
- Hollander, D.J., K. Freeman, G. Ellis, A. Diefendorf, E. Goddard, E.B. Peebles et al. (Keynote lecture) Why subsurface oils associated with the BP Deepwater Horizon blowout are so long-lived and remain toxic?: A molecular organic geochemical perspective. In Gordon Research Conference on Chemical Oceanography. August 14-19, 2011, Andover, NH
- Peebles, E.B. Update on USF-CMS oil spill investigations. Tampa Bay Regional Planning Council, Agency on Bay Management Meeting, July 14, 2011, Pinellas Park, FL (invited)
- Hollander, D.J., G. Ellis, E.B. Peebles, J. Paul and E. Goddard. The science since the spill. Smithsonian's National Museum of Natural History (NMNH) and the Centers for Ocean Sciences Education Excellence (COSEE), Invited Presentation in the *Changing Tides* lecture series. March 2011, Washington, D.C.
- Hollander, D.J., E.B. Peebles, J. Paul, B. Flower, P. Coble, R. Weisberg, K. Daly and J. Torres. Fate and impact of toxic oils released into the northern Gulf of Mexico: Ongoing chemical, biological and geological perspectives of the Deepwater Horizon catastrophe. Changing Seas, Smithsonian Institution, April 19, 2011, Washington, D.C.
- Hollander, D.J., G. Ellis, E.B. Peebles, J. Paul and E. Goddard. Origins and fate of oil in the northern Gulf of Mexico: Ongoing chemical, biological and geological perspectives. National Science Teachers Association (NSTA) and the Centers for Ocean Sciences Education Excellence (COSEE) National Conference, April 2011 (invited)
- Tolley, S.G., M.L. Parsons, D.C. Fugate, B.A. Denkert, M. Andresen, J.M. Neurohr, L. Markley, K. Radabaugh, S.E. Burghart and E.B. Peebles. Freshwater inflow and prey production for young

- estuarine-dependent fishes in the Caloosahatchee River and estuary. CHNEP Charlotte Harbor Watershed Summit: The State of our Watershed and Estuaries. March 30-31, 2011, Punta Gorda, FL
- Peebles, E.B. Overview of the effects of reduced freshwater inflows on estuarine fishes and their prey. USEPA State of the Science on Phosphate Mining and the Environment. March 28-29, 2011, Punta Gorda, FL (invited)
- Hollander, D., E. Peebles, J. Paul, B. Flower, P. Coble, R. Weisberg, K. Daly and J. Torres. Toxic oils in the northern Gulf of Mexico: Chemical, biological and geological perspectives on the Deepwater Horizon catastrophe. Luncheon Speaker, NSTA- COSEE Annual Meeting, March 12, 2011, San Francisco, CA
- Radabaugh, K., S. Huelster, D. Hollander and E. Peebles. Variation in fish  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  on the West Florida Shelf: Implications for site fidelity and selective trophic pathway effects. 19<sup>th</sup> Annual Meeting of the American Fisheries Society, Southern Division, January 13-16, 2011, Tampa, FL
- Rolls, H., D. Jones, E.B. Peebles, C. McIvor and J. Ley. Defining fish nursery habitats of *Centropomus undecimalis* using otolith elemental fingerprinting. 19<sup>th</sup> Annual Meeting of the American Fisheries Society, Southern Division, January 13-16, 2011, Tampa, FL
- Brame, A., C. McIvor, D. Hollander and E. Peebles. Ecological assessment of juvenile snook over a small spatial scale in a tidal tributary of Tampa Bay, Florida. 19<sup>th</sup> Annual Meeting of the American Fisheries Society, Southern Division, January 13-16, 2011, Tampa, FL
- Radabaugh, K.R., S. A. Huelster, D.J. Hollander and E.B. Peebles. Variation in fish  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  along a climatic gradient: An isoscape perspective for the West Florida Shelf. AGU Fall Meeting, December 13-17, 2010, San Francisco, CA
- Hollander, D.J., K. Freeman, G.S. Ellis, A. Difendorf, E.B. Peebles and J. Paul. Long-lived layers of toxic BP Oil in the waters and sediments of the Northern Gulf of Mexico: A molecular organic and isotopic geochemical approach to understanding their nature, origin and impacts. AGU Fall Meeting, December 13-17, 2010, San Francisco, CA
- Peebles, E.B. Deepwater Horizon oil spill: Biological impacts on ocean life, Panelist, Sierra Club Deepwater Horizon Oil Spill Forum, November 16, 2010, St. Petersburg, FL (invited)
- Peebles, E.B. Academia's response to the Deepwater Horizon disaster. Luncheon Speaker, Eckerd College Science Symposium, November 5-6, 2010, St. Petersburg, FL (invited)
- Peebles, E.B. Deepwater Horizon oil spill: What is the impact on marine life? USF Research One Kickoff Event: "Tracking the Spill," Impact of the Gulf Oil Spill and the Pivotal Role of USF Marine Scientists. October 11, 2010. Tampa, FL
- Flannery, M.S., E.B. Peebles, X. Chen, K. Dixon, T.C. MacDonald, E. Estevez and J. Loper. Assessing the effects of removing excess freshwater inflow to the lower Myakka River estuary. Coastal and Estuarine Research Federation 20<sup>th</sup> Biennial Conference, November 1-5, 2009, Portland, OR

- Brame, A.B., C.C. McIvor, D.J. Hollander and E.B. Peebles. Using stable isotopes to better define nursery habitat of a juvenile sportfish. Coastal and Estuarine Research Federation 20<sup>th</sup> Biennial Conference, November 1-5, 2009, Portland, OR
- Burghart, S.E. and E. B. Peebles. Comparisons of zooplankton assemblages in spring-fed versus surface-fed estuaries on Florida's west coast. Coastal and Estuarine Research Federation 20<sup>th</sup> Biennial Conference, November 1-5, 2009, Portland, OR
- Sherwood, E.T., E.B. Peebles, M.F.D. Greenwood, E.M. Malkin, H. Greening, R.H. McMichael, Jr., L. Cross, J. Krebs and D. Karlen. Tampa Bay tidal tributary habitat initiative project. Coastal and Estuarine Research Federation 20<sup>th</sup> Biennial Conference, November 1-5, 2009, Portland, OR
- Tolley, S.G., D.C. Fugate, M.L. Parsons, B.A. Denkert, M. Andresen, K. Radabaugh, G. Ellis, S.E. Burghart and E.B. Peebles. Physical-biological interactions related to invertebrate prey production for young estuarine-dependent fishes in southwest Florida. Coastal and Estuarine Research Federation 20<sup>th</sup> Biennial Conference, November 1-5, 2009, Portland, OR
- Denkert, B.A., S.E. Burghart, E.B. Peebles and S.G. Tolley. Responses of zooplankton to variable freshwater inflow in the Caloosahatchee River and estuary, Florida (poster). Coastal and Estuarine Research Federation 20<sup>th</sup> Biennial Conference, November 1-5, 2009, Portland, OR
- Peebles, E.B. and D.J. Hollander. Nitrogenous organic matter accumulation in Safety Harbor, Florida: Sources and decadal-scale trends. 5th Bay Area Scientific Information Symposium (BASIS 5). October 20-23, 2009, St. Petersburg, FL (invited)
- MacDonald, T.C., R.E. Matheson, Jr., E.B. Peebles, R.H. McMichael, Jr. and M.F.D. Greenwood. Tidal creeks as nekton habitat in the Tampa Bay estuary. 5th Bay Area Scientific Information Symposium (BASIS 5). October 20-23, 2009, St. Petersburg, FL
- Brame, A., C. McIvor, E.B. Peebles and D.J. Hollander. A more comprehensive approach for determining juvenile snook nursery habitat in a Tampa Bay wetland. 5th Bay Area Scientific Information Symposium (BASIS 5). October 20-23, 2009, St. Petersburg, FL
- Ley, J.A., C.C. McIvor, E.B. Peebles and H. Rolls. Defining fish nursery habitats: An application of otolith elemental fingerprinting in Tampa Bay, Florida. 5th Bay Area Scientific Information Symposium (BASIS 5). October 20-23, 2009, St. Petersburg, FL
- Malkin, E.M., E.B. Peebles and D.J. Hollander. Using estuarine fish stable nitrogen isotopes to pinpoint land-cover nutrient origins. 5th Bay Area Scientific Information Symposium (BASIS5). October 20-23, 2009, St. Petersburg, FL
- Malkin, E.M., E.B. Peebles and D.J. Hollander. Urban socio-economic factors affect the isotopic composition of fish muscle. Goldschmidt 2009 – "Challenges to Our Volatile Planet", June 21-26, Davos, Switzerland
- Peebles, E.B., D.J. Hollander, E.M. Malkin and C. Kovach. Concepts for Gulf-wide nitrogen endpoint & Tampa Bay pilot indicator research. Gulf of Mexico Alliance/EPA Workshop, June 9-11, 2009, Stennis Space Center, MS (invited)

- Ellis, G.S., J. McKnight, G. Herbert, E.B. Peebles and D.J. Hollander – Effect of shell formation on tissue amino acid carbon composition in the marine snail *Strombus* sp.: implications for interpreting biochemical and environmental conditions from organic matter bound in carbonate shells. Isocompound '09, June 1-5, Potsdam, Germany (poster)
- Peebles, E.B. Dead zones, stagnation and the water crisis: Watershed effects on estuarine communities. Charlotte Harbor National Estuary Program, Reservoir Workshop, April 13-14, 2009, Punta Gorda, FL (invited)
- Malkin, E.M., D.J. Hollander and E.B. Peebles. Parallel nitrogen cycles in southwest Florida's tidal rivers: Selective remineralization of algal material supports fish biomass. Ocean Sciences Meeting (AGU, ASLO), March 2-7, 2008, Orlando, FL
- Locascio, J., E.B. Peebles, and D. Mann. Sound production and spawning by black drum (*Pogonias cromis*) in southwest Florida. Acoustics '08, June 29-July 4, 2008, Paris, France
- Malkin, E.M., D.J. Hollander and E.B. Peebles. Nitrogen pathways that support fish in Tampa Bay's tidal tributaries. Tampa Bay Estuary Program Technical Advisory Committee Meeting, April 3, 2008, Pinellas Park, FL
- Peebles, E.B. and M.F.D. Greenwood. Convergence of spatial abundance quantiles as a measure of estuarine organism crowding during low-inflow periods. Estuarine Research Federation Biennial Conference, November 4-8, 2007, Providence, RI
- Malkin, E.M., D.J. Hollander and E.B. Peebles. Land-use specific nutrients and selective remineralization supporting fish biomass in Southwest Florida's tidal rivers. Estuarine Research Federation Biennial Conference, November 4-8, 2007, Providence, RI
- Peebles, E.B., S. Murasko, E.M. Malkin and D.J. Hollander. Contributions of mangroves and other primary producers to the estuarine nursery function of tidal rivers in west-central Florida; An ecosystem analysis using multiple stable isotopes. 2007 Spring Meeting of the Florida Chapter of The Wildlife Society, April 11-13, 2007, St. Petersburg, FL (invited)
- English, D., K.L. Carder and E.B. Peebles. 2007. The use of a colored dissolved organic matter (CDOM) fluorometer in high CDOM waters. *Bio-Sensing in Ocean Observation* workshop sponsored by Mote Marine Laboratory and College of Marine Science, University of South Florida, Joint Center for Coastal Ocean Studies and the Florida Coastal Ocean Observing Systems Consortium, June 18-20, 2007, Sarasota, FL (poster)
- Peebles, E.B. Abundance responses to freshwater inflow: the processes behind the correlations. 2003. *When the river meets the sea: The importance of freshwater flow to Florida's marine and freshwater fisheries*. Symposium sponsored by the Florida Chapter of the American Fisheries Society, February 25-26, 2003, Brooksville, FL (invited)
- Peebles, E.B. Freshwater shortages and coastal fish production: Lessons learned from Florida's annual dry season. Symposium entitled *When the Water Runs Dry*, sponsored by the Gulf Restoration Network (EPA), September 9-10, 2002 New Orleans, LA (invited)

- Peebles, E.B. and M.E. Luther. Spawning and habitat responses of the bay anchovy (*Anchoa mitchilli*) to ENSO-related variation in inflows to Florida estuaries. Ocean Sciences Meeting (AGU, ASLO), February 11-15, 2002, Honolulu, HI
- Peebles, E.B. Salinity-abundance parabolas: standardized plankton tows as a means of assessing estuarine condition. Estuarine Research Federation Biennial Conference, November 3-7, 2001, St. Pete Beach, FL
- Peebles, E.B. Model-based predictions of habitat and diet selection in estuarine-dependent fishes. American Fisheries Society, 20th Annual Larval Fish Conference, June 1996, New Orleans, LA
- Peebles, E.B. Egg production by the bay anchovy, *Anchoa mitchilli*, in relation to adult and larval prey fields. 76th annual meeting of the American Society of Ichthyologists and Herpetologists, June 1996, New Orleans, LA
- Peebles, E.B. Variable egg production and juvenile recruitment in an unexploited anchovy stock. Annual Meeting, Florida Chapter of the American Fisheries Society, March 1994, Brooksville, FL (received best student paper award).
- Peebles, E.B. New recruitment analysis methods. Symposium entitled Fisheries Recruitment in Florida Waters, sponsored by Florida Sea Grant and the Florida Chapter of the American Fisheries Society, March 1989, Live Oak, FL
- Peebles, E.B. Snook early life history. Third Snook Symposium, sponsored by the Florida Dept. of Natural Resources, March 1987, West Palm Beach, FL
- Peebles, E.B. Larval spotted seatrout (*Cynoscion nebulosus*) population parameters. Annual Meeting, Florida Chapter of the American Fisheries Society, February 1987, Brooksville, FL
- Peebles, E.B. Recruitment of sport fishes in southwest Florida. Annual Meeting, Southeastern Estuarine Research Society, May 1985, Sarasota, FL

#### **Scientific Cruise Experience** (32 cruises total)

- 2019 R/V *Hogarth*. Chief Scientist on cruise to the West Florida Shelf to survey drifting fish eggs.
- 2019 R/V *Hogarth*. Two teaching cruises to Tampa Bay and the West Florida Shelf as part of classes *Estuaries* and *Applied Methods for Fisheries*.
- 2014 R/V *Weatherbird II*. Chief Scientist on two to test lionfish traps.
- 2014 R/V *Weatherbird II*. Chief Scientist on teaching cruise to Tampa Bay and nearshore Gulf of Mexico.
- 2010 R/V *Weatherbird II*. Chief Scientist on oil spill cruise to northern Gulf of Mexico within weeks of the Deepwater Horizon explosion. CDOM fluorometry, backscatter, sonar, CTD-rossette casts, Shipek grabs, glider deployment, water chemistry, deep-slope trawling.

- 2010 R/V *Bellows*. Chief Scientist on two teaching cruises to Tampa Bay and the eastern Gulf of Mexico. Plankton net, trawling and CTD-rosette demonstrations.
- 1996-98 R/V *Tommy Munro*, R/V *Hermes*, M/V *Bill Demoran*. Chief Scientist on 15 teaching cruises to nearshore and continental shelf waters of Mississippi and Louisiana. Activities included sampling of marine organisms using trawl, plankton net, benthic grabs, and Niskin-bottle filtrations.
- 1991-92 R/V *Suncoaster*. Two cruises to test performance of new optical plankton counter/fluorometer/CTD apparatus in diverse environments on West Florida Shelf. Ground-truthing was achieved through opening/closing bongo net tows, filtrations of Niskin-bottle hydrocasts and chlorophyll extractions.
- 1990-91 R/V *Bellows*. Two cruises to West Florida Shelf to continue investigation of decompression-recompression mortality of groupers using pressurized free vehicles and shipboard compression chambers.
- 1990 R/V *Suncoaster*. Deep-slope trawling on Florida Escarpment and pilot investigation of decompression/recompression mortality of groupers on West Florida Shelf using pressurized free vehicles.
- 1989 R/V *Suncoaster*. Instructor on teaching cruise to West Florida Shelf; responsibilities included identification of trawl catch and demonstration of plankton net deployment, Niskin-bottle hydrocasts, and CTD electronics.
- 1987 R/V *Cape Hatteras*. Deep-slope trawling on Florida Escarpment, (West Florida Shelf) within DeSoto Canyon, and off the Mississippi River delta to collect macrourid fishes for molecular systematics study.
- 1983 R/V *Bellows*. Teaching cruise to West Florida Shelf, Florida Current, Marquesas Keys and Dry Tortugas, Florida.