

Curriculum Vitae

JERALD STEPHEN AULT

Primary Appointment: Professor of Marine Biology and Fisheries, Graduate Faculty.

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Place of Birth: Bethesda, Maryland. **Citizenship:** USA

HIGHER EDUCATION

Postdoctoral University of Maryland (1989). Fish Population Dynamics.
Advisor: Brian J. Rothschild

Ph.D. University of Miami RSMAS (1988). Fishery Management Science & Applied Statistics.
Advisor: William W. Fox, Jr.

** University of California San Diego, Scripps Institution of Oceanography (1983).
Biological Oceanography. Advisor: Michael M. Mullin.

M.S. Humboldt State University (1982). Natural Resources (Fisheries). Arcata, California.
Advisor: John D. DeMartini

B.S. Humboldt State University (1979). Fisheries Science. Arcata, California.

A.A. San Diego Mesa College (1977). Mathematics & Life Sciences. San Diego, California.

EXPERIENCE

2007-present Professor of Marine Biology and Fisheries, Graduate Faculty, University of Miami RSMAS

1999-2007 Associate Professor (Tenured) of Marine Biology and Fisheries, Graduate Faculty, University of Miami RSMAS

1993-1998 Assistant Professor of Marine Biology and Fisheries, Graduate Faculty, University of Miami RSMAS

1990-1992 Assistant Research Scientist, University of Maryland CEES-CBL

CURRENT INTERNATIONAL & NATIONAL COMMITTEE MEMBERSHIPS

United Nations FAO Caribbean Large Marine Ecosystem, Steering Committee

Board of Scientific Counselors (SP2 Subcommittee), United States Environmental Protection Agency Office of Research & Development

International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean, Chair of International Peer Review Team

North American Sustainable Use Specialist Group, World Conservation Union (IUCN)

Snapper, Sea Bream and Grunts Specialist Group; Caribbean and North America, Species Survival Committee World Conservation Union (IUCN)

International Council for Exploration of the Seas, WKDEEP External Expert

Theodore Roosevelt Conservation Partnership & U.S. Fisheries Collaborative, Blue Ribbon Panel on National Marine Recreational Fishing Data
Bonefish & Tarpon Trust, Executive Board of Directors

American Institute of Fisheries Research Biologists, Chair Clark Hubbs Research Awards

NOAA/EPA Florida Keys National Marine Sanctuary, Technical Advisory Committee

Oceanic Conservation Association, Scientific Advisory Board

Sigma Xi Scientific Research Organization, President of Miami Chapter

International Ocean Observing System, Animal Tracking Network, Steering Committee

IOOS Biological Observations SECOORA/GCOOS-RA, Steering Committee

USAID and NOAA Indonesia. *Stock Assessment in Data-Poor Situations*, Workshop lead in Jakarta and Mataram, Indonesia.

CURRENT UNIVERSITY COMMITTEE MEMBERSHIPS

Director, Tarpon & Bonefish Research Center

Principal Faculty, Institute for Theoretical and Mathematical Ecology

Executive Steering Committee, Institute for Theoretical and Mathematical Ecology,

CIMAS Council of Fellows

University of Miami Research Council

Center for Computational Sciences, ARES Committee

RSMAS Faculty Development Committee

RECORD OF RESEARCH ACTIVITIES

DISSERTATION AND THESIS

Ault, J.S. 1988. Nonlinear numerical simulation models for assessing tropical fisheries with continuously breeding multicohort populations. Ph.D. Dissertation, University of Miami, Coral Gables, FL. 242 p.

Ault, J.S. 1982. Aspects of laboratory growth and reproduction of the red abalone, Haliotis rufescens. M.S. Thesis, Humboldt State University, Arcata, California. 77 p.

BOOKS

Ault, J.S. (Editor). 2008. *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor & Francis Group, CRC Series in Marine Science, Volume 9. Boca Raton, Florida. 441 p.

Mill, A.R., Ford, P., and **Ault, J.S.** 2010. *A Passion for Tarpon*. Wild River Press. Mill Creek, WA. 481 p.

REFEREED JOURNAL ARTICLES

Ault, J.S., S.G. Smith, J. Browder, W. Nuttle, E.C. Franklin, G.T. DiNardo, and J.A. Bohnsack. 2014. Indicators for assessing the ecological and sustainability dynamics of southern Florida's coral reef and coastal fisheries. *Ecological Indicators*, *in press*

Farmer, N.A., and **J.S. Ault**. 2014. Modeling coral reef fish home range movements in Dry Tortugas, Florida. *The Scientific World Journal*, Volume 2014, 14 pages, <http://dx.doi.org/10.1155/2014/629791>

Lirman, D., N. Formel, S. Schopmeyer, **J.S. Ault**, S.G. Smith, D. Gilliam, and B. Riegl. 2013. Percent recent mortality (PRM) of stony coral as an ecological indicator of coral reef condition. *Ecological Indicators*, *in press*

Farmer, N.A., **J.S. Ault**, S.G. Smith, and E.C. Franklin. 2013. Methods for assessment of short-term coral reef fish movements within an acoustic array. *Movement Ecology* 2013: 1-7.

Ault, J.S., Smith S.G., Bohnsack J.A., Patterson M., Feeley M.W., McClellan D.B., Ruttenberg B.I., Hallac D., Ziegler T., Hunt J., Kimball D., Luo J., Zurcher N., Causey B. 2013. Assessing coral reef fish changes and marine reserve dynamics in the Dry Tortugas, Florida USA. *Fisheries Research* 144: 28-37.

Ault, J.S., Luo, J. 2013. A reliable game fish weight estimation model for Atlantic tarpon (*Megalops atlanticus*). Fisheries Research 139: 110-117.

Luo, J., **Ault, J.S.** 2012. Vertical swim speeds and habitat use of Atlantic tarpon inferred from pop-up archival transmitting tags. Marine Ecology Progress Series 467: 167-180.

Hammerschlag, N., Luo, J., Irschick, D.J., & **Ault, J.S.** 2012. A comparison of spatial and movement patterns between sympatric predators: bull sharks (*Carcharhinus leucas*) and Atlantic tarpon (*Megalops atlanticus*). PLOS ONE 7(9): 1-14.

Ruttenberg, B.I., P. J. Schofield, J.L. Akins, A. Acosta, M.W. Feeley, J. Blondeau, S.G. Smith, & **Ault, J.S.** 2012. Rapid invasion of Indo-Pacific lionfish (*Pterois volitans* and *P. miles*) in the Florida Keys, USA: evidence from multiple pre- and post-invasion datasets. Bulletin of Marine Science 88(4): 1051-1059.

Glynn, P.W., S. B. Colley, J. L. Maté, I. B. Baums, J. S. Feingold, J. Cortés, H. M. Guzman, J. A. Afflerbach, V. Brandtneris, & **Ault, J.S.** 2012. Reef coral reproduction in the equatorial eastern Pacific: Costa Rica, Panamá, and the Galápagos Islands (Ecuador). VII. Siderastreidae, *Psammocora stellata* and *Psammocora profundacella*. Marine Biology 159(9): 1917-1932.

Hammerschlag, N., Gallagher, A., Wester, J., Luo, J., & **Ault, J.S.** 2012. Don't bite the hand that feeds: Assessing ecological impacts of provisioning ecotourism on an apex marine predator. Functional Ecology 26(3): 567-576.

Smith, S.G., Swanson, D.W., Chiappone, M., Miller, S.L., & **Ault, J.S.** 2011. Probability sampling of stony coral populations in the Florida Keys. Environmental Monitoring and Assessment 183(1-4): 121-138.

Farmer, N.A., & **Ault, J.S.** 2011. Grouper and snapper movements and habitat use in Dry Tortugas, Florida. Marine Ecology Progress Series 433: 169-184.

Smith, S.G., **J.S. Ault**, J.A. Bohnsack, D.E. Harper, J. Luo, and D.B. McClellan. 2011. Multispecies survey design for assessing reef-fish stocks, spatially-explicit management performance, and ecosystem condition. Fisheries Research 109(1): 25-41.

Larkin, M.F., **J.S. Ault**, R. Humston and J. Luo. 2010. A mail survey to estimate the fishery dynamics of southern Florida's bonefish charter fleet. Fisheries Management and Ecology 17(2): 254-261.

Ault, J.S., S.G. Smith and J.T. Tilmant. 2009. Are the coral reef finfish fisheries of south Florida sustainable? Proceedings International Coral Reef Symposium 11: 989-993.

Ault, J.S., S.G. Smith, J. Luo, M.E. Monaco and R.S. Appeldoorn. 2008. Length-based assessment of sustainability benchmarks for coral reef fishes in Puerto Rico. Environmental Conservation 35(3): 221-231.

Luo, J., **J.S. Ault**, M.F. Larkin, and L.R. Barbieri. 2008. Salinity measurements from pop-up archival transmitting (PAT) tags and application to geolocation estimation for Atlantic tarpon (*Megalops atlanticus*). Marine Ecology Progress Series 357: 101-109.

Bartholomew, A., J.A. Bohnsack, S.G. Smith, **J.S. Ault**, D.E. Harper, and D.B. McClellan. 2008. Influence of marine reserve size and boundary length on the initial response of exploited reef fishes in the Florida Keys National Marine Sanctuary, USA. Landscape Ecology 23(Suppl. 1): 55-65.

Ault, J.S., R. Humston, M.F. Larkin, E. Perusquia, N.A. Farmer, J. Luo, N. Zurcher, S.G. Smith, L. Barbieri, and J. Posada. 2008. Population dynamics and resource ecology of Atlantic tarpon and bonefish. CRC Series on Marine Biology 9: 217-258.

Feeley, M.W., D.D. Benetti, and **J.S. Ault**. 2007. Elevated oxygen uptake and high rates of nitrogen excretion in early life stages of the cobia, *Rachycentron canadum*, a fast growing subtropical fish. Journal of Fish Biology 71: 1662-1678.

Molina-Urena, H., and **J.S. Ault**. 2007. Towards an ecosystem-based approach to assess non-target tropical reef fishes. Gulf & Caribbean Fisheries Institute 59: 185-190.

Ault, J.S., S.G. Smith, J.A. Bohnsack, J.Luo, D.E. Harper, and D.B. McClellan. 2006. Building sustainable fisheries in Florida's coral reef ecosystem: positive signs in the Dry Tortugas. Bulletin of Marine Science 78(3): 633-654.

Ault, J.S., S.G. Smith, and J.A. Bohnsack. 2005. Evaluation of average length as an estimator of exploitation status for the Florida coral reef fish community. ICES Journal of Marine Science 62: 417-423.

Ault, J.S., J.A. Bohnsack, S.G. Smith, and J. Luo. 2005. Towards sustainable multispecies fisheries in the Florida USA coral reef ecosystem. Bulletin of Marine Science 76(2): 595-622.

Humston, R., **J.S. Ault**, M.F. Larkin, and J. Luo. 2005. Movements and site fidelity of bonefish (*Albula vulpes*) in the northern Florida Keys determined by acoustic telemetry. Marine Ecology Progress Series 291: 237-248.

Humston, R., D.B. Olson, and **J.S. Ault**. 2004. Behavioral assumptions in models of fish movement and their influence on population dynamics. Transactions of the American Fisheries Society 133: 1304-1328.

Meester, G.A., A. Mehrotra, **J.S. Ault**, and E.K. Baker. 2004. Designing marine reserves for fishery management. Management Science 50(8): 1031-1043.

Bohnsack, J.A., **J.S. Ault**, and B. Causey. 2004. Why have no-take marine protected areas? American Fisheries Society Symposium 42: 185-193.

- Wang, J.D., J. Luo, and **J.S. Ault**. 2003. Flows, salinity, and some implications for larval transport in south Biscayne Bay, Florida. *Bulletin of Marine Science* 72(3): 695-723.
- Franklin, E.C., **J.S. Ault**, S.G. Smith, J. Luo, G.A. Meester, G.A. Diaz, M. Chiappone, D.W. Swanson, S.L. Miller, and J.A. Bohnsack. 2003. Benthic habitat mapping in the Tortugas region, Florida. *Marine Geodesy* 26(1-2): 19-34.
- Chiappone, M., S.L. Miller, D.W. Swanson, **J.S. Ault**, and S.G. Smith. 2002. Comparatively high densities of long-spined sea urchins in the Dry Tortugas, Florida. *Coral Reefs* 20(2): 137-138.
- Ault, J.S.**, S.G. Smith, G.A. Meester, J. Luo, E.C. Franklin, J.A. Bohnsack, D.E. Harper, D.B. McClellan, S.L. Miller, M. Chiappone, and D.W. Swanson. 2002. Synoptic habitat and reef fish surveys support establishment of marine reserves in Dry Tortugas, Florida USA. *Reef Encounter* 31: 22-23.
- Meester, G.A., **J.S. Ault**, S.G. Smith, and A. Mehrotra. 2001. An integrated simulation modeling and operations research approach to spatial management decision making. *Sarsia* 86(6): 543-558.
- Rubec, P.J., S.G. Smith, M.S. Coyne, M. White, D. Wilder, A. Sullivan, R. Ruiz-Cruz, T. MacDonald, R.H. McMichael, G.E. Henderson, M.E. Monaco, and **J.S. Ault**. 2001. Spatial modeling of fish habitat in Florida. *Spatial Processes and Management of Fish Populations*. Lowell Wakefield Fisheries Symposia Series 17: 1-18
- Lindeman, K.C., P.A. Kramer, and **J.S. Ault**. 2001. Comparative approaches to reef monitoring and assessment: an overview. *Bulletin of Marine Science* 69(2): 335-338.
- Miller, S.L., M. Chiappone, D.W. Swanson, **J.S. Ault**, S.G. Smith, G.A. Meester, J. Luo, E.C. Franklin, J.A. Bohnsack, D.E. Harper, and D.B. McClellan. 2001. An extensive deep reef terrace on the Tortugas Bank, Florida Keys National Marine Sanctuary. *Coral Reefs* 20(3): 299-300.
- Diaz, G.A., S.G. Smith, J.E. Serafy, and **J.S. Ault**. 2001. Allometry of the growth of pink shrimp *Farfantepenaeus duorarum* in a subtropical bay. *Transactions of the American Fisheries Society* 130(2): 328-335.
- Lindeman, K.C., T.N. Lee, W.D. Wilson, R. Claro, and **J.S. Ault**. 2001. Transport of larvae originating in southwest Cuba and the Dry Tortugas: evidence for partial retention in grunts and snappers. *Gulf and Caribbean Fisheries Institute* 52: 732-747.
- Lindeman, K.C., R. Pugliese, G.T. Waugh, and **J.S. Ault**. 2000. Developmental patterns within a multispecies reef fishery: management applications for essential fish habitats and protected areas. *Bulletin of Marine Science* 66(3): 929-956.
- Humston, R., **J.S. Ault**, M. Lutcavage, and D.B. Olson. 2000. Schooling and migration of large pelagic fishes relative to environmental cues. *Fisheries Oceanography* 9(2): 136-146.

Glynn, P.W. and **J.S. Ault**. 2000. A biogeographic analysis and review of the far eastern Pacific coral reef region. *Coral Reefs* 19(1): 1-19.

Meester, G.A., **J.S. Ault**, and J.A. Bohnsack. 1999. Visual censusing and the extraction of average length as a biological indicator of stock health. *Naturalista Sicilia* 23: 205-222.

Serafy, J.E., **J.S. Ault**, T.R. Capo, and D.R. Schultz. 1999. Red drum stock enhancement in Biscayne Bay, Florida USA: assessment of rearing and releasing unmarked early juveniles. *Aquaculture Research* 30: 737-750.

Lindeman, K.C., G.A. Diaz, J.E. Serafy, and **J.S. Ault**. 1999. A spatial framework for assessing cross-shelf habitat use among newly settled grunts and snappers. *Gulf and Caribbean Fisheries Institute* 50: 385-416.

Ault, J.S., J. Luo, S.G. Smith, J.E. Serafy, J.D. Wang, R. Humston, and G.A. Diaz. 1999. A spatial dynamic multistock production model. *Canadian Journal of Fisheries and Aquatic Sciences* 56(S1): 4-25.

Ault, J.S., G.A. Diaz, S.G. Smith, J. Luo, and J.E. Serafy. 1999. An efficient sampling survey design to estimate pink shrimp population abundance in Biscayne Bay, Florida. *North American Journal of Fisheries Management* 19(3): 696-712.

Cosner, G.C., D.L. DeAngelis, **J.S. Ault**, and D.B. Olson. 1999. Effects of spatial grouping on the functional response of predators. *Theoretical Population Biology* 56(1): 65-75.

Rubec, P.J., J.C.W. Bexley, M.S. Coyne, M.E. Monaco, S.G. Smith, and **J.S. Ault**. 1998. Suitability modeling to delineate habitat essential to sustainable fisheries. *American Fisheries Society Symposium* 22: 108-133.

Ault, J.S., J.A. Bohnsack, and G.A. Meester. 1998. A retrospective (1979-1996) multispecies assessment of coral reef fish stocks in the Florida Keys. *Fishery Bulletin* 96(3): 395-414.

Serafy, J.E., K.C. Lindeman, T.E. Hopkins, and **J.S. Ault**. 1997. Effects of freshwater canal discharge on fish assemblages in a subtropical bay: field and laboratory observations. *Marine Ecology Progress Series* 160: 161-171.

Post, J.T., J.E. Serafy, **J.S. Ault**, T.R. Capo, and D.P. de Sylva. 1997. Field and laboratory observations of larval Atlantic sailfish (*Istiophorus platypterus*) and swordfish (*Xiphias gladius*). *Bulletin of Marine Science* 60(3): 1026-1034.

Ault, J.S., and D.B. Olson. 1996. A multicohort stock production model. *Transactions of the American Fisheries Society* 125(3): 343-363.

Rothschild, B.J., and **J.S. Ault**. 1996. Population-dynamic instability as a cause of patch structure. *Ecological Modelling* 93(1-3): 237-249.

Bohnsack, J.A., and **J.S. Ault**. 1996. Management strategies to conserve marine biodiversity. *Oceanography* 9(1): 73-82.

Ault, J.S. 1996. A fishery management system approach for Gulf of Mexico living resources. In GIS Applications for Fisheries and Coastal Resources Management, P.J. Rubec and J. O'Hop (eds.), Gulf States Marine Fisheries Commission 43: 106-111.

Serafy, J.E., C.M. Schmitz, T.R. Capo, M.E. Clarke, and **J.S. Ault**. 1996. Total length estimation from head dimensions of red drum. *Progressive Fish-Culturist* 58: 289-290.

Zhang, C.I., and **J.S. Ault**. 1995. Abundance estimation of the Chesapeake Bay blue crab, *Callinectes sapidus*. *Bulletin of the Korean Fisheries Society* 28(6): 708-719.

Ault, J.S., E.V. Patrick, and B.J. Rothschild. 1995. Physical factors affecting recruitment and abundance of the Chesapeake Bay blue crab. *Bulletin of Marine Science* 57(3): 917-918.

Rothschild, B.J., **J.S. Ault**, P. Gouletquer, and M. Heral. 1994. Decline of the Chesapeake Bay oyster population: a century of habitat destruction and overfishing. *Marine Ecology Progress Series* 111(2&3): 29-39.

Zhang, C.I., **J.S. Ault**, and S. Endo. 1993. Estimation of dredge sampling efficiency for blue crabs in Chesapeake Bay. *Bulletin of the Korean Fisheries Society* 26(4): 369-379.

Ault, J.S. 1992. Age-structured abundance and density equations for tropical multicohort populations. *Gulf and Caribbean Fisheries Institute* 41: 245-273.

Rothschild, B.J., and **J.S. Ault**. 1992. Linkages in ecosystem models. *South African Journal of Marine Science* 12: 1101-1108.

Ehrhardt, N.M., and **J.S. Ault**. 1992. Analysis of two length-based mortality models applied to bounded catch length frequencies. *Transactions of the American Fisheries Society* 121(1): 115-122.

Ault, J.S., and N.M. Ehrhardt. 1991. Correction to the Beverton and Holt Z-estimator for truncated catch length-frequency distributions. *ICLARM Fishbyte* 9(1): 37-39.

Ault, J.S., and W.W. Fox. 1989. Simulation of the effects of spawning and recruitment patterns in tropical and subtropical fish stocks on traditional management assessments. *Gulf and Caribbean Fisheries Institute* 39: 341-353.

Ault, J.S., and W.W. Fox. 1989. FINMAN: fishery management decision analysis with multiple objectives. *American Fisheries Society Symposium* 6: 166-179.

Ault, J.S., and W.W. Fox. 1987. A fishery institution management computer model for simulating the decision making environment in tropical and subtropical regions. *Gulf and Caribbean Fisheries Institute* 38: 361-388.

Ault, J.S., and J.D. DeMartini. 1987. Movement and dispersion of red abalone, *Haliotis rufescens*, in northern California. California Fish and Game 73(4): 196-213.

Ault, J.S. 1985. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (Pacific Southwest): black, green, and red abalones. U.S. Fish and Wildl. Serv. Biological Report 82(11.32), U.S. Army Corps of Engineers TR EL-82-4.19 p.

Ault, J.S. 1985. Some quantitative aspects of reproduction and growth of the red abalone, *Haliotis rufescens* Swainson. Journal of the World Mariculture Society 16: 398-425.

REFEREED JOURNAL ARTICLES in Review

Nadon, M.O., Ault, J.S., DiNardo, G.T. 2014. A length-based assessment of coral reef fishes in the Hawaiian Islands. PLoS One

Harford, W., Smith, S.G., Ault, J.S., Babcock, E.A. 2014. Cross-shelf habitat use by juvenile grouper in the Florida Keys coral reef ecosystem. Marine Ecology Progress Series

Vaughan, N.R., Ault, J.S., Gedamke, T. 2014. The evolution of length-based mortality estimation for reliable assessment of tropical reef fish exploitation. Fisheries Research

Farmer, N.A., and J.S. Ault, 2014. Movements and space use of a female tiger shark *Galeocerdo cuvier* (Peron and LeSueur 1822) in the marine reserves of Dry Tortugas, Florida. Journal of Marine Biology, *in review*

Smith, S.G., Ault, J.S., Nadon, M., Kosaki, R., McMichael, R., Rubec, P., and DiNardo, G.T. 2014. Standardization of abundance indices among gears for fishery-independent surveys in Hawaii and Florida. Trans. Am. Fish. Soc., in prep.

Then, A.Y., J.M. Hoenig, T. Gedamke, J.S. Ault. 2014. Comparison of two length-based estimators of total mortality: a simulation approach. Fisheries Research

REFEREED BOOK CHAPTERS

Ault, J.S. 2012. Marine and estuarine habitats in south Florida are physically and biologically connected. In '*Tropical Connections: South Florida's marine environment*', W. Kruczynski and P. Fletcher (eds.). IAN Press, College Park, MD.

Ault, J.S. 2012. Overfishing has reduced fish stocks in south Florida. In '*Tropical Connections: South Florida's marine environment*'. W. Kruczynski and P. Fletcher (eds.). IAN Press, College Park, MD.

Ault, J.S. 2012. Fish tagging reveals bonefish and tarpon migratory patterns. In '*Tropical Connections: South Florida's marine environment*', W. Kruczynski and P. Fletcher (eds.). IAN Press, College Park, MD.

Ault, J.S. 2012. Healthy tarpon and bonefish populations are important to the economy of south Florida. In ‘*Tropical Connections: South Florida’s marine environment*’, W. Kruczynski and P. Fletcher (eds.). IAN Press, College Park, MD.

Ault, J.S., Bohnsack, J.A. 2012. No take marine reserves are an important management strategy for exploited reef fish stocks. In ‘*Tropical Connections: South Florida’s marine environment*’, W. Kruczynski and P. Fletcher (eds.). IAN Press, College Park, MD.

Gribble, N., **Ault, J.S.**, Walters, C., Christensen, V., Lehodey, P., and J. Polovina. 2011. Ecosystem models and modeling lessons from other regions.. Chapter 3, Pages 43-66 in Glazier, E., ‘*Ecosystem Based Fisheries in the Western Pacific*’. Wiley-Blackwell, New York.

Ault, J.S. 2010. Silver King – a most perfect and ancient sportfish: The biology, ecology and management of *Megalops atlanticus* – and its precarious future. Chapter 15 in Mill, A.R, *A Passion for Tarpon*. Wild River Press. Mill Creek, WA. 481 p.

Jaap, W.C, A. Szmant, K. Jaap, J. Dupont, R. Clarke, P. Somerfield, **J.S. Ault**, J.A. Bohnsack, S.G. Smith and G.T. Kellison. 2009. A perspective on the biology of Florida Keys coral reefs. Chapter 3 in *Coral Reefs of the USA*, B. Riegl and R.E. Dodge (eds.). Springer-Verlag. 806 p.

Ault, J.S. 2008. Biology and management of the world tarpon and bonefish fisheries. Introduction in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on Marine Biology, Volume 9. Boca Raton, Florida. 441 p.

Luo, J., **J.S. Ault**, M.F. Larkin, R. Humston, and D.B. Olson. 2008. Seasonal migratory patterns and vertical habitat utilization of Atlantic tarpon (*Megalops atlanticus*) from satellite PAT tags. Chapter 18 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. CRC Series on Marine Biology, Volume 9. Boca Raton, Florida. 441 p.

Larkin, M.F., **Ault, J.S.**, R. Humston, and J. Luo. 2008. Tagging of bonefish in south Florida to study population movements and stock dynamics. Chapter 19 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on Marine Biology, Volume 9. Boca Raton, Florida. 441 p.

Ault, J.S., S. Moret, J. Luo, M.F. Larkin, N. Zurcher, and S.G. Smith. 2008. Florida Keys bonefish population census. Chapter 26 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on Marine Biology, Volume 9. Boca Raton, Florida. 441 p.

Barbieri, L.R., **J.S. Ault**, and R.E. Crabtree. 2008. Science in support of management decision-making for bonefish and tarpon conservation in Florida. Chapter 27 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on Marine Biology, Volume 9. Boca Raton, Florida. 441 p.

Humston, R.**J.S. Ault**, J. Schratwieser, M.F. Larkin, and J. Luo. 2008. Incorporating user-group expertise in bonefish and tarpon fishery research to support science-based management decision making. Chapter 30 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on Marine Biology, Volume 9. Boca Raton, Florida. 441 p.

Bohnsack, J.A., D.B. McClellan, D.E. Harper, **J.S. Ault**, S.G. Smith, G. Meester, and J. Luo. 2006. Preliminary analysis of FKNMS reef fish monitoring through 2002. Pp 119-124 in Keller, B.D. and S. Donahue (eds). 2002-03 sanctuary science report: an ecosystem report card after five years of marine zoning. U.S. Department of Commerce, NOAA, National Ocean Service, Office of National Marine Sanctuaries, Florida Keys National Marine Sanctuary, Marathon, FL. 378 p.

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Franklin, E.C., **J.S. Ault**, S.G. Smith, and J. Luo. 2002. Utilization of GIS in a fisheries assessment and management system. Chapter 5 pages 49-54 in Marine Geography: GIS for the Oceans and Seas (J. Breman, ed.). ESRI Press. Redlands, CA. 204 p.

Ault, J.S., M.P. Crosby, G. Davis, and E. Reese. 2000. Ecological assessments. Chapter 4, Pages 45-48 in Alternative Access Management Strategies for Marine and Coastal Protected Areas. U.S. Man and the Biosphere, Washington, DC. 168 p.

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Harwell, M.A., **J.S. Ault**, J.H. Gentile. 1995. Comparative ecological risk assessment: comparison of the ecological risks to the Tampa Bay ecosystem from spills of fuel oil #6 and orimulsion. University of Miami, CMEA, Volume 1, 230 p.

Ault, J.S., V. Myers, and M. Harwell. 1995. Comparative ecological risk assessment. University of Miami, CMEA, Volume 2, 550 p.

CERTIFICATIONS

Certified Fisheries Professional, American Fisheries Society (1998).

Advanced Open Water SCUBA Diver- American Association of Underwater Scientists (AAUS) with the following advanced training certifications:

- AAUS Research Diver 100 feet
- NOAA Advanced Diver NITROX.
- Red Cross CPR
- Red Cross O2 Provider
- DAN Dive Accident Management

FUNDED RESEARCH (2000-2014)

Principal Investigator. Florida and Caribbean Coral Reef Fish Monitoring and Assessment. NOAA-NMFS Southeast Fisheries Science Center. Grant No. NA17RJ1226 SBB4 06/13-05/14. **\$230,000.**

Principal Investigator. Sampling Design Analysis for Optimal Monitoring of the Pacific Islands Region Bottom fish Stocks and Advancement of Length-Based Stock Assessment Models. NOAA Pacific Islands Fisheries Science Center. Grant No. AB133F-10-CN-0312. 08/13-07/14. **\$95,000.**

Principal Investigator, Florida Reef Resiliency Program Sampling Design. The Nature Conservancy. 01/14-04/14. **\$15,000.**

Principal Investigator. Tarpon and Bonefish Research Center. Bonefish & Tarpon Trust. 01/14-12/14. **\$175,000.**

Principal Investigator. Assessment of Coral Reef Multispecies Fishery Resources and RNA Performance in Dry Tortugas National Park Reef Fish Community. National Park Service CESU. Grant No. H5000065040-J5299-06-1017. 09/01/13-09/30/14. **\$75,000.**

Principal Investigator, Risk Assessment Models for Evaluating Potential Biological and Fishery Impacts from the Turkey Point Units 6 & 7 Project. Florida Power & Light Corporation. 02/13-08/13. **\$50,000.**

Principal Investigator. Tarpon and Bonefish Research Center. Bonefish & Tarpon Trust. 01/13-12/13. **\$137,000.**

Co-Principal Investigator. WSC-Category 2 Collaborative: Robust decision-making for south Florida water resources by ecosystem service valuation, hydro-economic optimization, and conflict resolution modeling. National Science Foundation. Grant No. NSF 1204752. 09/12-08/14. **\$331,000.**

Principal Investigator. Adaptive Statistical Sampling Design Analysis for Optimal Monitoring of the Papahānaumokuākea National Marine Monument Coral Reef Ecosystem. NOAA National Marine Sanctuary Program. Grant No. NOAA AB133C10SE1987. 07/01/12-6/30/13. **\$100,000.**

Principal Investigator. Tarpon Migration Research Using Satellite PAT tags. Bonefish & Tarpon Trust. 01/12-12/12. **\$75,000.**

Principal Investigator. Assessment of Coral Reef Multispecies Fishery Resources and RNA Performance in Dry Tortugas National Park Reef Fish Community. National Park Service CESU. Grant No. H5000065040-J5299-06-1017. 09/01/12-09/30/13. **\$75,000.**

Principal Investigator. Sampling Design Analysis for Optimal Monitoring of the Pacific Islands Region Bottom fish Stocks and Advancement of Length-Based Stock Assessment Models. NOAA Pacific Islands Fisheries Science Center. Grant No. AB133F-10-CN-0312. 08/12-07/13. **\$95,000.**

Principal Investigator. Florida Coral Reef Fish Monitoring and Assessment. NOAA-NMFS Southeast Fisheries Science Center. Grant No. NA17RJ1226 SBB4 06/12-05/13. **\$132,000.**

Principal Investigator. Model Evaluation and Skill Assessment of Data Rich and Data Poor Reef Fisheries Forecasts. NOAA National Marine Sanctuary Program. Grant No. NOAA MARFIN. 09/01/12-8/30/13. **\$95,572.**

Principal Investigator, Risk Assessment Models for Evaluating Potential Biological and Fishery Impacts from the Turkey Point Units 6 & 7 Project. Florida Power & Light Corporation. 05/12-12/12. **\$300,000.**

Principal Investigator. Tarpon Migration Research Using Satellite PAT tags. Bonefish & Tarpon Trust. 01/12-12/12. **\$72,035.**

Principal Investigator. Adaptive Statistical Sampling Design Analysis for Optimal Monitoring of the Papahānaumokuākea National Marine Monument Coral Reef Ecosystem. NOAA National Marine Sanctuary Program. Grant No. NOAA AB133C10SE1987. 07/01/11-6/30/12. **\$130,000.**

Principal Investigator. Assessment of Coral Reef Multispecies Fishery Resources and RNA Performance in Dry Tortugas National Park Reef Fish Community. National Park Service CESU. Grant No. H5000065040-J5299-06-1017. 09/01/11-09/30/12. **\$130,000.**

Principal Investigator. Model Evaluation and Skill Assessment of Data Rich and Data Poor Reef Fisheries Forecasts. NOAA National Marine Sanctuary Program. Grant No. NOAA MARFIN. 09/01/11-8/30/13. **\$195,000.**

Principal Investigator. Florida Coral Reef Fish Monitoring and Assessment. NOAA-NMFS Southeast Fisheries Science Center. Grant No. NA17RJ1226 SBB4 06/11-05/12. **\$170,000.**

Principal Investigator. Development of a Coral Reef Fishery-Independent Assessment Protocol for the Southeast Florida Region. Florida Department of Environmental Protection. CRCP Project 3A.09/11-08/12. **\$54,301.**

Principal Investigator. Bonefish-Tarpon Conservation Research Center. Bonefish & Tarpon Trust. 01/11-12/11. **\$176,000.**

Principal Investigator. Sampling Design Analysis for Optimal Monitoring of the Pacific Islands Region Bottom fish Stocks and Advancement of Length-Based Stock Assessment Models. NOAA Pacific Islands Fisheries Science Center. Grant No. AB133F-10-CN-0312. 08/10-07/12. **\$270,000.**

Principal Investigator. Coral Reef Ecosystem Monitoring and Assessment in Florida and US Virgin Islands National Parks. National Park Service, South Florida & Caribbean Network. Grant No. H5000065040-J5299-06-1025. 10/01/10-12/31/11. **\$157,563.**

Principal Investigator. Florida Coral Reef Fish Monitoring and Assessment. NOAA-NMFS Southeast Fisheries Science Center. Grant No. NA17RJ1226 SBB4 06/10-05/11. **\$140,000.**

Principal Investigator. Sustaining Coral Reef Fisheries in Puerto Rico. National Fish & Wildlife Foundation. Grant No. 2010-0042-18388. 03/10-2/11. **\$100,000.**

Principal Investigator. Modeling sustainability of coral reef ecosystem services under multiple interacting stressors. National Institute for Mathematical Biology and Synthesis (NIMBioS). 01/10-12/10. **\$175,000.**

Principal Investigator. Assessment of Coral Reef Multispecies Fishery Resources and RNA Performance in Dry Tortugas National Park Reef Fish Community. National Park Service CESU. Grant No. H5000065040-J5299-06-1017. 09/01/10-09/30/11. **\$151,050.**

Principal Investigator. Adaptive Statistical Sampling Design Analysis for Optimal Monitoring of the Papahānaumokuākea National Marine Monument Coral Reef Ecosystem. NOAA National Marine Sanctuary Program. Grant No. NOAA AB133C10SE1987. 07/01/10-6/30/11. **\$78,000.**

Principal Investigator. Tarpon Migration Research Using Satellite PAT tags. Green River Foundation, Belize. 08/10-07/11. **\$17,500.**

Principal Investigator. Bonefish-Tarpon Conservation Research Center. Bonefish & Tarpon Trust. 01/10-12/10. **\$96,725.**

Principal Investigator. Adaptive Statistical Sampling Design Analysis for Optimal Monitoring of the Papahānaumokuākea National Marine Monument Coral Reef Ecosystem. NOAA National Marine Sanctuary Program. Grant No. NOAA AB133C-07-CN-0197. 09/09-08/10. **\$274,190.**

Principal Investigator. Assessment of Coral Reef Multispecies Fishery Resources and RNA Performance in Dry Tortugas National Park Reef Fish Community. National Park Service CESU. Grant No. H5000065040-J5299-06-1017. 09/01/09-09/30/10. **\$251,150.**

Principal Investigator. Florida Coral Reef Fish Monitoring and Assessment. NOAA-NMFS Southeast Fisheries Science Center. Grant No. NA17RJ1226 SBB4 05/09-09/10. **\$140,000.**

Principal Investigator. Coral Reef Fish-Habitat Modeling to Support Ecosystem-based Management. NOAA-NMFS Coral Reef Conservation Program. Grant No. NA17RJ1226 SBB4

MT666448 06/09-09/10. **\$90,300.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Bonefish & Tarpon Trust. 01/09-12/09. **\$116,164.**

Principal Investigator. Adaptive Statistical Sampling Design Analysis for Optimal Monitoring of the NWHI Monument Coral Reef Ecosystem. NOAA National Marine Sanctuary Program. Grant No. NOAA AB133C-07-CN-0197. 09/08-08/09. **\$307,145.**

Principal Investigator. Florida Reef Track Reef Fish Monitoring and Assessment. 07/08-06/09. NOAA-National Marine Fisheries Service, Coral Reef Initiative No. NA17RJ1226. **\$130,000.**

Principal Investigator. Coral Reef Fish-Habitat Modeling to Support Ecosystem-based Management. NMFS Coral Reef Conservation Program. Grant No. NOAA NA17RJ1226 SBB4 MT666448 07/07-06/08. **\$94,113.**

Principal Investigator. Assessment of Resource Status and Research Natural Area Performance for the Dry Tortugas National Park Reef Fish Community. South Florida/Caribbean CESU, National Park Service. Grant No. H5000065040-J5297-07-02-5. 09/08-09/09. **\$75,000.**

Principal Investigator. Fisheries Resource Status and Management Alternatives for the Southeast Florida Region. Florida Department of Environmental Protection. 10/08-09/09. **\$25,000.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Sanctuary Friends of the Florida Keys. 04/08-03/09. **\$30,000.**

Principal Investigator. Dry Tortugas region cruise support. Florida Keys National Marine Sanctuary. 04/08-07/08. **\$30,000.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Bonefish & Tarpon Unlimited. 04/08-03/09. **\$50,000.**

Principal Investigator. Assessment of Resource Status and Research Natural Area Performance for the Dry Tortugas National Park Reef Fish Community. South Florida/Caribbean CESU, National Park Service. Grant No. H5000065040-J5297-07-02-5. 09/07-09/08. **\$157,035.**

Principal Investigator. Adaptive Statistical Sampling Design Analysis for Optimal Monitoring of the NWHI Monument Coral Reef Ecosystem. NOAA National Marine Sanctuary Program. Grant No. NOAA AB133C-07-CN-0197. 09/07-08/08. **\$247,954.**

Principal Investigator. Aerial Survey of Boater Use in Everglades National Park Marine Waters – Florida Bay and Ten Thousand Islands. National Park Service, South Florida/Caribbean CESU. Grant No. H500000B494-J5281053005. 09/07-03/08. **\$38,588.**

Principal Investigator. Coral Reef Fish-Habitat Modeling to Support Ecosystem-based Management. NMFS Coral Reef Conservation Program. Grant No. NOAA NA17RJ1226 SBB4 MT666448 07/07-06/08. **\$90,553.**

Principal Investigator. Florida Reef Track Reef Fish Monitoring and Assessment. 07/07-06/08. NOAA-National Marine Fisheries Service, Coral Reef Initiative No. NA17RJ1226. **\$110,000.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Sanctuary Friends of the Florida Keys. 04/07-03/08. **\$50,000.**

Principal Investigator. Cross-Validation of Site Characterization Conclusions for Biscayne National Park Coral Reef Fishery Resources. South Florida/Caribbean CESU, National Park Service. Grant No. H500000B494-J5250030108. 08/06-02/07. **\$48,300.**

Principal Investigator. Assessment of Resource Status and Marine Reserve Performance for the Dry Tortugas National Park Reef Fish Community. South Florida/Caribbean CESU, National Park Service. Grant No. H5000065040. 09/06-08/07. **\$75,000.**

Principal Investigator. Acoustic Telemetry Tracking of Reef Fish to Determine Population Flux Rates in Open and Fully-Protected Research Natural Areas. South Florida/Caribbean CESU, National Park Service. Grant No. H5000065040. 09/06-08/07. **\$78,500.**

Principal Investigator. Tarpon Satellite Passive Archival Transmitting Tag Research Program. Bonefish & Tarpon Unlimited. 01/07-12/07. **\$81,235.**

Principal Investigator. Tarpon Satellite Passive Archival Transmitting Tag Research Program. Florida Fish and Wildlife Conservation Commission. 01/06-12/07. **\$21,105.**

Principal Investigator. Tarpon Satellite Passive Archival Transmitting Tag Research Program. Florida Fish and Wildlife Conservation Commission. 09/06-08/07. **\$21,000.**

Principal Investigator. Florida Reef Track Reef Fish Monitoring and Assessment. 07/06-06/07. NOAA-National Marine Fisheries Service, Coral Reef Initiative No. NA17RJ1226. **\$100,000.**

Principal Investigator: CRES (Coral Reef Ecosystem Science): Integrating Science and Management in the Caribbean. NOAA/NOS. 08/06-7/07. **\$60,000.**

Principal Investigator. Tarpon Satellite Passive Archival Transmitting Tag Research Program. DBA Texas Tarpon Pro AM Tournament. 09/06-08/07. **\$7,000.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Friends of the Sanctuary. 07/06-06/07. **\$50,000.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Bonefish and Tarpon Unlimited. 07/06-06/07. **\$10,000.**

Principal Investigator. Tarpon Satellite Passive Archival Transmitting Tag Research Program. Texas Parks and Wildlife Department. 07/06-06/07. **\$21,000.**

Principal Investigator. Tarpon Satellite Passive Archival Transmitting Tag Research Program. Coastal Conservation Association of Texas. 07/06-08/07. **\$10,500.**

Principal Investigator. Statistical Analysis of Existing Bottomfish Data Towards the Application of Stock Assessments Models in the Pacific Island Region. NOAA Pacific Islands Fisheries Science Center. 08/06-7/07. **\$50,000.**

Principal Investigator. Assessment of Resource Status and Research Natural Area Performance for the Dry Tortugas NP Reef Fish Community, 2005-2006 Using Reef Fish Visual Census and Acoustic Telemetry South Florida/Caribbean CESU, National Park Service. Grant No. H500000B494-J5299051011. 10/05-10/06. **\$110,000.**

Principal Investigator. Methods to Evaluate Marine Reserve Impacts. NOAA/NMFS Coral Reef Program. Grant No. NA05NMF4631044. 11/05-10/06. **\$50,000.**

Principal Investigator: CRES (Coral Reef Ecosystem Science): Integrating Science and Management in the Caribbean. NOAA/NOS. 08/05-7/06. **\$40,000.**

Principal Investigator. Aerial Survey of Boater Use in Everglades National Park Marine Waters – Florida Bay and Ten Thousand Islands. National Park Service, South Florida/Caribbean CESU. Grant No. H500000B494-J5281053005. 09/05-03/07. **\$86,275.**

Principal Investigator. Florida Reef Track Reef Fish Monitoring and Assessment. 07/05-06/06. NOAA-NMFS Coral Reef Initiative No. NA17RJ1226. **\$95,000.**

Principal Investigator. Cross-validation of coral reef fishery assessment conclusions. 07/05-06/06. NOAA-NMFS Coral Reef Initiative No. NA17RJ1226. **\$35,000.**

Principal Investigator. Statistical Analysis of Existing Data towards the Application of Ecosystem-based Management in the NW Hawaiian Islands. NOAA National Marine Sanctuary Program. 05/05-06/06. **\$95,000.**

Principal Investigator. Biogeographic Assessments of Reef Fishes and Invertebrates in Florida and the US Caribbean. NOAA Biogeography Program, National Ocean Service. 03/05-10/06. **\$200,000.**

Principal Investigator. Fishery Resource Habitat Use Modeling for Florida Bay: Development and Application to Everglades Restoration Implementation, Phase 2. 03/05-02/08. CESU Task No. J5280040007. **\$206,264.**

Principal Investigator. Bonefish-Tarpon Conservation Research Program. Bonefish-Tarpon Unlimited and Friends of the Sanctuary. 01/05-12/05. **\$100,000.**

Principal Investigator. Inventory of Coastal Pelagic Fishes in Dry Tortugas National Park. 01/05-06/06. National Park Service CESU No. H500000B494-J2117041883. **\$40,000.**

Principal Investigator. Knauss Marine Policy Fellowship Application (M. Almeida). NOAA National Sea Grant. Grant No. EST32. 02/05-01/06. **\$40,000.**

Principal Investigator. Coral Reef Fish Assessment in DRTO. National Park Service CESU No. H500000B494-J5280020499.08/04-9/05. **\$140,000.**

Principal Investigator: CRES: Integrating Science and Management in the Caribbean. NOAA. 08/04-7/05. **\$35,000.**

Principal Investigator. Reef fish community dynamics and linkages with Florida Bay. 07/04-06/05. NOAA COP South Florida Program No. NA17RJ1226. **\$75,000.**

Principal Investigator: Florida Reef Track Reef Fish Monitoring and Assessment. 07/04-06/05. NOAA-NMFS Coral Reef Initiative No. NA17RJ1226. **\$86,425.**

Principal Investigator. Bonefish-Tarpon conservation program in south Florida. National Fish and Wildlife Foundation. 01/05-12/05. **\$15,000.**

Principal Investigator. Quantification of habitat use by reef fishes in the Florida coral reef ecosystem. National Sea Grant No. R/C-E-50. 02/04-03/06. **\$135,041.**

Principal Investigator. Bonefish-Tarpon conservation program in south Florida. National Fish and Wildlife Foundation. 02/04-03/05. **\$110,797.**

Principal Investigator. Fishery resource habitat use modeling for Florida Bay: Development and Application to Everglades Restoration Implementation (Phase 1). 12/03-11/04. National Park Service CESU No. H500000B494-J5280020499. **\$101,008.**

Principal Investigator. Cross validation of BNP site characterization. National Park Service. 01/04-12/04. National Park Service CESU No. H500000B494-J5280020499. **\$48,300.**

Principal Investigator. Monitoring coral reef fishes and macroinvertebrates in Dry Tortugas National Park. 10/03-09/05. National Park Service CESU No. H500000B494-J5280020499. **\$70,000.**

Principal Investigator. Bonefish-Tarpon conservation program in south Florida. Bonefish-Tarpon Unlimited, Inc., and Friends of the Florida Keys. 04/03-06/04. **\$104,600.**

Implementation of the NOAA southeast coral reef database system (SeCoRDS). 02/03-03/04. Co-PI with Mei-Ling Shyu and Steven Wong NOAA-NMFS Coral Reef Initiative No. NA17RJ1226. **\$52,596.**

Design and Development of the Caribbean-wide reef fish visual census universal database. 02/03-03/04. Co-PI with Mei-Ling Shyu and James A. Bohnsack. NOAA-NMFS Coral Reef Initiative No. NA17RJ1226. **\$49,750.**

Principal Investigator. Marine resource management plan for Dry Tortugas National Park. 10/02-09/03. National Park Service CESU No. H500000B494-J5280020499. **\$56,378.**

A study of population dynamics of scleractinians on Conch Reef. 04/03-03/04. National Undersea Research Program Award #2430611022965. Co-PI with Dione Swanson. **\$15,540.**

Principal Investigator. Aerial survey of boater use in Biscayne National Park. 09/02-08/03. National Park Service CESU No. H500000B494-J5250020400. **\$122,600.**

Principal Investigator. CRES 2002: Integrating science and management in the Caribbean – ecological and socioeconomic coupling. 09/02-08/05. NOAA Coastal Ocean Program No. NA17RJ1226. **\$200,000.**

Principal Investigator. Reef fish community dynamics and linkages with Florida Bay. 07/02-06/04. NOAA COP South Florida Program No. NA17RJ1226. **\$150,700.**

Principal Investigator. Development of a spatial biophysical fishery model for Atlantic Coast multispecies assessments: interactions between bluefish and striped bass. 10/02-09/05. NOAA Atlantic States Marine Fisheries Commission. **\$121,350.**

Principal Investigator. Tortugas 2000: Monitoring coral reef fish populations in the Florida Keys. 07/02-06/03. NOAA-NMFS Coral Reef Initiative. **\$100,000.**

Principal Investigator. Monitoring coral reef fish and macroinvertebrates in Biscayne National Park. 09/01-08/02. National Park Service Dry Tortugas National Park CESU Grant No. H5000000494. **\$50,000.**

Principal Investigator. Monitoring the coral reef fish and macroinvertebrates in Dry Tortugas National Park. 09/01-08/02. National Park Service Dry Tortugas National Park CESU Grant No. H5000000494. **\$70,000.**

Principal Investigator. Assessment of coral reef fish stocks in the Florida Keys. 09/01-08/02. NOAA-NMFS Coral Reef Initiative. **\$50,000.**

Principal Investigator. Assessment of marine reserve impacts on the Florida Keys multispecies coral reef fishery. 04/02-03/03. National Undersea Research Center. **\$60,800.**

Principal Investigator. Stock assessment of hogfish. 01/02-12/02. Contract No. FFWCC S 77011-617573. Florida Marine Research Institute. **\$50,000.**

Principal Investigator. Stock assessment of gray angelfish. 01/02-12/02. Contract No. FFWCC S 77011-617574. Florida Marine Research Institute. **\$50,000.**

Diver operated fish sizing device based on stereographic imagery. 01/02-12/02. NMFS-SEFSC Coral Reef Initiative. **\$119,000.** Co-PI with K. Voss and C. Boynton (UM Physics).

Principal Investigator. Sampling survey design for the Florida Keys reef fish community. 09/01-08/02. National Park Service Dry Tortugas National Park CESU Grant No. H5000000494. **\$95,000.**

Principal Investigator. Survey of Biscayne National Park resource users. 09/01-08-02. National Park Service Biscayne National Park CESU Grant No. H5000000494. **\$10,000.**

Principal Investigator. Quantitative models of linkages between fish and spatially distributed habitats. 07/01-06/02. Florida Fish and Wildlife Conservation Commission. **\$60,000.**

Principal Investigator. Reef fish community dynamics and linkages with Florida Bay. 07/01-06/02. NOAA COP SFERPM. **\$84,700.**

Billfish population dynamics, modeling and fishery management. 07/01-06/02. Center for Sustainable Fisheries. **\$124,700.** Co-PI with D. Olson, J. Luo and N. Ehrhardt.

Principal Investigator. Statistical analyses of coral reef monitoring data. 10/01-09/02. National Undersea Research Center. **\$62,000.**

Principal Investigator. Statistical analysis of RVC monitoring databases. 07/01-06/02. NMFS-SEFSC Coral Reef Initiative. **\$100,000.**

Principal Investigator. Evaluation of tarpon (Megalops atlanticus) migrations using satellite PAT tags. 06/01-05/02. Bonefish-Tarpon Unlimited. **\$24,300.**

Principal Investigator. Wider Caribbean universal database for assessment of marine reserves. 07/01-06/02. NMFS\SEFSC Coral Reef Initiative. **\$68,215.**

Principal Investigator. Bonefish conservation program in south Florida. 03/01-02/02. National Fish and Wildlife Foundation Grant No. **\$105,025.**

Principal Investigator. Fish community dynamics in the south Florida coastal ecosystem: effects of natural and anthropogenic stressors. 03/01 to 2/02. NOAA Coastal Ocean Program No. NA37RJ0200. **\$199,801.**

Principal Investigator. Seasonal assessment of linkages between fisheries productivity and habitat. 01/01-12/01. Florida Fish and Wildlife Conservation Commission Grant No. S7701615272. **\$84,500.**

Principal Investigator. Baseline assessment of fishery resources in Biscayne National Park. 09/00-08/01. National Park Service Grant CA528-00-024. **\$40,000.**

Principal Investigator. Multispecies reef fish assessment in Dry Tortugas National Park. 09/00-08/01. National Park Service Grant No. CA528-00-023. **\$30,000.**

Principal Investigator. Design and implementation of a pilot recreational reef fishery survey in Dry Tortugas National Park. 08/00-12/00. National Park Service Grant No. CA528-000-023. **\$7,500.**

Reef fish community dynamics and linkages with Florida Bay. 07/00-06/02. NOAA South Florida Living Marine Resources Program Grant No. NA67RJ0149. **\$407,100.** Co-PI with J.A. Bohnsack.

Principal Investigator. Advanced Biometrics and Data Mining. Short Course. Florida Fish & Wildlife Conservation Commission Grant No. S7701612902. **\$10,000.**

Multispecies reef fish stock assessment in the Dry Tortugas. 4/00-3/01. National Undersea Research Center Grant No. NURC 00-19. **\$51,100.** Co-Principal Investigator with J.A. Bohnsack.

Principal Investigator. An integrated monitoring and assessment strategy for the Dry Tortugas. 04/00-08/01. Florida Keys National Marine Sanctuary Grant No. NA67RJ0149. **\$75,000.**

Principal Investigator. Recruitment pathways of larvae originating in the FKNMS. 05/00-04/01. Florida Keys National Marine Sanctuary Grant No. NA67RJ0149. **\$30,000.**

Principal Investigator. Population dynamics and movements of bonefish (*Albulavulpes*) off Key Largo, Florida. 10/99 to 11/00. Ocean Reef Community Foundation. **\$30,000.**

Principal Investigator. Fish community dynamics in the south Florida coastal ecosystem: effects of natural and anthropogenic stressors. 01/00-03/01. NOAA Coastal Ocean Program No. NA37RJ0200. **\$199,998.**

Summary of Prior Extramural Funding:

1993 to 1999 University of Miami. 21 Grants totaling \$2,073,560. Sources: National Undersea Research Center; Florida Keys National Marine Sanctuary; Artmarina Foundation; Florida Department of Environmental Protection; Florida Power and Light; U.S. Army Corps of Engineers; U.S. Man and the Biosphere Program; National Park Service; NOAA Great Lakes Environmental Research Laboratory; Ocean Reef Community Foundation; NOAA Coastal Ocean Program; National Marine Fisheries Service SFERPM; Royal Caribbean Ocean Fund.

1989 to 1992 University of Maryland. 12 Grants totaling \$1,684,144. Sources: U.S. Agency for International Development; NOAA Chesapeake Bay Stock Assessment Committee; U.S. Army Corps of Engineers; Maryland Department of Natural Resources; U.S. Fish and Wildlife Service; Omani-American Joint Commission; Florida Marine Fisheries Commission.

PAST INTERNATIONAL & NATIONAL COMMITTEE MEMBERSHIPS

Chair Peer Review Team, International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean
Steering Committee, UN Organization of Eastern Caribbean States Partnership Programme
Delegate, White House Conference on Cooperative Conservation
Chair, Florida Fisheries Summit, Science & Conservation Group, FWC Commission
Modeling & Forecasting Group Leader, Hawaiian Archipelago Marine Research (HAMER) Plan
Technical Advisory Committee, Papahānaumokuākea National Marine Monument
Management Committee, NOAA Caribbean Coral Reef Ecosystem Science (CRES)
Scientific Advisory Committee, Ocean Conservancy RECON
Expert Member, NOAA Northeast Fisheries Science Center EFH Program
Steering Committee, NOAA Coral Reef Mapping Implementation Plan
Steering Committee, NOAA & CRC Chesapeake Fishery Ecosystem Monitoring
Steering Committee, TNC Florida Reef Resiliency Program
Technical Advisory Committee, NOAA Southeast Bering Sea Carrying Capacity Study
Technical Advisory Committee, FWC Florida Reef Fish Monitoring and Assessment
Statistical Advisory Panel, Florida Fish and Wildlife Conservation Commission
Steering Committee, National Park Service Fisheries Management Planning
Technical Review Committee, South Miami-Dade Watershed Study
Founding Member, Bonefish-Tarpon Unlimited Inc.
American Fisheries Society, Fisheries Conservation Foundation

EDITORIAL RESPONSIBILITIES

Editorial Board Member (EBM) of *The Open Fish Science Journal*

Peer-review for the following Journals during the past 36 months:

Bulletin of Marine Science
Canadian Journal of Fisheries and Aquatic Sciences
Conservation Biology
Conservation Ecology
Coral Reefs
Ecology
Ecological Applications
Ecological Modelling
Ecology and Society
Estuaries
Environmental Biology of Fishes
Fishery Bulletin
Fisheries Research
Fisheries Review
Frontiers in Ecology and the Environment
Gulf & Caribbean Fisheries Institute
ICES Journal of Marine Research
Journal of Fish Biology
Marine Biology

Marine Ecology
Marine Ecology Progress Series
Marine and Freshwater Research
Mathematical Biosciences
North American Journal of Fisheries Management
The Quarterly Review of Biology
Transactions of the American Fisheries Society
Veliger
National Science Foundation
National Sea Grant (Alaska, Florida, Rhode Island, Washington, and Hawaii)

PROFESSIONAL AND HONORARY ORGANIZATIONS

American Institute of Fishery Research Biologists (Fellow 1998; Member 1990; Assoc., 1984)
Sigma Xi National Honor Society (Full Member, 1993; Associate Member 1986)
American Fisheries Society (Certified Fisheries Professional, 2000)
American Statistical Association (Member 1992; Associate Member 1985)
American Mathematical Association (Member, 1992)
Faculty of 1000 Biology (2004)
International Society for Reef Studies (Sustaining Member, 1998)
World Aquaculture Society (Charter Member, 1991)
Network of Tropical Fisheries Scientists (Member, 1988)

HONORS AND AWARDS

Distinguished Service Award (2012), American Institute of Fishery Research Biologists

IGFA Conservation Award (2011), from the International Game Fish Association for work to educate anglers and gather data on tarpon, bonefish and permit in the Florida Keys and beyond, November 2011.

Capt. Bob Lewis Perpetual Memorial Award (2010), Miami Billfish Tournament, for my body of work in fisheries conservation and sport fishing. March 2010.

Special Recognition, for outstanding contributions in the establishment of a Research Natural Area in Dry Tortugas National Park to restore, protect, and preserve the Park's pristine subtropical marine ecosystem of Dry Tortugas/Everglades National Parks. August 2008.

CCA & Tarpon Tomorrow Conservation Award, in recognition of outstanding commitment to Texas Tarpon Research. September 2008.

Certificate of Recognition, for valuable contributions as Technical Review Committee Member to development of South Dade Watershed Plan, by Mayor Carlos Alvarez, February 2006.

Field & Stream Heroes of Conservation Award, for ground-breaking research on tarpon migration patterns in the Gulf of Mexico and Caribbean Sea using satellite pop-up tags. Field &

Stream – The World’s Leading Outdoor Magazine. June 2006.

Winner, National Planning Award. Category: ‘*Outstanding Collaborative Planning Project or Program: Tortugas National Park General Management Plan*’. Federal Planning Division. American Planning Association. University of Illinois at Chicago. Recipients: National Park Service, Southeast Region; National Park Service, Denver Service Center; Dry Tortugas National Park; University of Miami, RSMAS; Florida Keys National Marine Sanctuary.

Best Scientific Publication Award. U.S. Dept. of Commerce, NMFS Scientific Publications Office. For paper published in *Fishery Bulletin* Volume 96 (1998). Ault, J.S., Bohnsack, J.A., and Meester, G.A. (1998). A retrospective (1979-1996) multispecies assessment of coral reef fish stocks in the Florida Keys. *Fishery Bulletin* **96(3)**: 395-414.

Top 10 Finalist, Pew Fellowship in Marine Conservation Science (2007).

Delegate, 4th White House Conference on Cooperative Conservation, St. Louis, MO (2005).

Certificate of Achievement, United States Department of Commerce (2002).

Best Scientific Publication Award Finalist. For paper published in *Transactions of the American Fisheries Society* 125(1996). Ault, J.S., and Olson, D.B. (1996). A multicohort stock production model. *TAFS* 125(3): 343-363.

Fellow, American Institute of Fisheries Research Biologists (1998).

Certified Fisheries Professional, American Fisheries Society (2000).

Best Scientific Paper Award. ICES 9th Annual Science Conference. Cascais, Portugal. Ault, J.S. and J. Luo. (1998). Coastal bays to coral reefs: systems use of scientific data visualization in reef fishery management. *ICES C.M. Statistics*

Best Scientific Paper Award. (2000). Florida Chapter American Fisheries Society. Humston, R., Ault, J.S., Lutcavage, M., and Olson, D.B. (2000) Schooling and migration of large pelagic fishes relative to environmental cues. *Fisheries Oceanography* 9(2): 136-146.

Best Scientific Paper Award. (1991). ICES 79th Statutory Meeting, LaRochelle, France. Rothschild, B.J., Ault, J.S., Gouletquer, P., and M. Heral. Decline of the Chesapeake Bay oyster population: a century of habitat destruction and overfishing. *Marine Ecology Progress Series* 111:29-39.

National Doctoral Dissertation Award (1988). Sea Grant Association national award for one of 8 top *Marine Science* Ph.D. Dissertations in the United States.

Koczy Doctoral Research Fellowship in the Marine Sciences (1987). Awarded for outstanding Ph.D. scholarship at the University of Miami RSMAS.

Doctoral Research Assistance Award (1986). American Institute of Fishery Research Biologists.

Outstanding Scholar (1986). Reef Environmental Education Foundation.

Research Fellowship (1985). International Light Tournament Tackle Association.

National Essay Contest 3rd Place Award (1967). American Legion.

PRESENTATIONS AT NATIONAL AND INTERNATIONAL SCIENTIFIC MEETINGS

141st American Fisheries Society. (2011), Seattle WA
Gulf & Caribbean Institute 63rd Annual. (2010). San Juan, Puerto, Rico.
Florida Keys Science Conference. (2010). Duck Key, FL
National Institute of Mathematical & Biological Synthesis (NIMBioS). (2010). Knoxville, TN.
International Council for Exploration of the Seas – WKDEEP. (2010). Copenhagen, Denmark.
National Science Foundation, Data Visualization in the Sciences. (2009). Hilo, Hawaii.
11th International Coral Reef Symposium. (2008). Ft. Lauderdale, FL.
138th American Fisheries Society. (2007). San Francisco, California.
2nd International Tarpon and Bonefish Symposium. (2006). Dania Beach, FL.
International Marine Protected Areas Conference (IMPAC1). (2005). Geelong, Australia.
58th Gulf & Caribbean Fisheries Institute. (2005). Isla San Andres, Colombia
Institute of Mathematical & Theoretical Ecology. (2005). Miami, FL.
Backreefs 2 Workshop. (2005). Lee Stocking Island, Exuma, Bahamas.
5th Mote International Symposium in Fisheries Ecology. (2004). Sarasota, FL.
3rd International Tarpon Forum. (2004). Veracruz, Mexico.
4th World Fisheries Congress. (2004). Vancouver, British Columbia, Canada.
10th International Conference on Productivity & Quality Research. (2004). Miami, FL.
134th American Fisheries Society. (2003). Quebec City, Canada.
International Tarpon-Bonefish Symposium. (2003). Dania Beach, FL.
Greater Everglades Ecosystem Restoration Conference. (2003). Tampa, FL.
National Center for Caribbean Coral Reef Research. (2002). Miami, FL.
Caribbean Marine Research Center. (2001). Exuma, Bahamas.
World Conference on Fisheries Sustainability. (2001). Miami, FL.
132nd American Fisheries Society. (2001). Phoenix, Arizona.
3rd World Fisheries Congress. (2000). Beijing, China.
9th International Coral Reef Symposium. (2000). Bali, Indonesia.
International Spatial Modeling Workshop. (2000). Bergen, Norway.
Inter-Americas Seas Initiative. (1999). Panama City, Panama.
17th Lowell Wakefield Fisheries Symposium. (1999). Anchorage, Alaska.
National Coral Reef Institute Symposium. (1999). Ft. Lauderdale, FL.
8th PICES Marine Science Organization of the North Pacific. (1999). Vladivostok, Russia.
129th American Fisheries Society. (1999). Charlotte, North Carolina.
51st Gulf and Caribbean Fisheries Institute. (1998). St. Croix, U.S. Virgin Islands.
ICES 9th Annual Science Conference. (1998). Cascais, Portugal.
127th American Fisheries Society. (1997). Monterey, California.
International Stock Enhancement Symposium. (1996). Sarasota, Florida.

Second World Fisheries Congress. (1996). Brisbane, Australia.
American Geophysical Union, Ocean Sciences Section. (1996). Baltimore, Maryland.
125th American Fisheries Society. (1995). Tampa, Florida.
International Estuarine Research Federation. (1994). Hilton Head, South Carolina.
124th American Fisheries Society. (1994). Halifax, Nova Scotia.
International Council for Exploration of the Seas, 79th Statutory. (1991). LaRochelle, France.

SYMPOSIA CHAIRED FOR PROFESSIONAL MEETINGS

Integrated Ecosystem Assessments and Marine Spatial Planning. NOAA/SEAMAP Joint
Deepwater Horizon Spill Workshop. (2010). St. Petersburg, FL.

Modeling Sustainability of Coral Reef Ecosystem Services Under Multiple Interacting Stressors.
(2010). NIMBioS (National Institute for Mathematical and Biological Synthesis) Workshop.
Knoxville, TN.

Coral Reef Ecosystem Studies Symposium. (2009). La Parguera, Puerto Rico.

World Tarpon & Bonefish Fisheries and Biology. (2008). 3rd International Tarpon and Bonefish
Symposium. International Game Fish Association Hall of Fame. Dania Beach, FL.

World Tarpon Fisheries and Biology. (2006). 2nd International Tarpon and Bonefish
Symposium. International Game Fish Association Hall of Fame. Dania Beach, FL.

AtlanticCoast Fisheries Ecosystem Modeling. (2005). Atlantic States Marine Fisheries
Commission. Norfolk, VA.

Spatial Ecology: The Interplay between Theory and Data. (2005). Institute of Mathematical &
Theoretical Ecology, Miami, FL.

Fisheries Management and Ecotourism. (2004). International Tarpon Forum. Veracruz, Mexico.

Spatial Fisheries Ecosystem Modeling. (2004). Atlantic States Marine Fisheries Commission.
Baltimore, MD.

Biology & Management of the World Tarpon and Bonefish Fisheries. (2003). 1st International
Tarpon-Bonefish Symposium. IGFA Hall of Fame, Dania Beach, FL.

Statistics and Modeling. (1999). 129th American Fisheries Society, Charlotte, NC.

Visualization of Spatial (including Survey) Data. (1998). ICES 9th Annual Science Conference.
Cascais, Portugal.

Marine Reserves in Florida: The Pros & Cons. (1997). Florida Keys National Marine Sanctuary.

Higher Trophic Level Modeling. (1997). South Florida Ecosystem Restoration, NMFS-SEFSC.

Marine Reserves and Fishery Management. (1995). Center for Marine Conservation.

Future of Florida Fishery Management Decision Making. (1995). 125th AFS. Tampa, FL.

Comparison of Fisheries Recruitment in Large Lakes and Open Ocean Systems.
(1994). American Society of Limnology and Oceanography, Miami, FL.

Modeling and Management of World Abalone Populations. (1989). 1st International Symposium
on Abalone Biology, Fisheries and Culture. La Paz, Baja California Sur, Mexico.

Microcomputers and Small Island Fishery Management. (1984). 37th Gulf & Caribbean Fisheries
Institute, Cancun, Mexico.

RECENT INVITED OUTSIDE LECTURES

South Carolina Low Country Tarpon Tournament. (2013). Georgetown, SC.

Capitol Hill Oceans Week, National Marine Sanctuaries Foundation. (2013). *MPAs work and
support vibrant economies and communities.* Washington, DC.

Gulf of Mexico Fishery Management Council, Coral Reefs & Fisheries Workshop. (2013). *Stock
assessment in data poor situations: length-based approaches for coral reef fisheries.* Tampa,
Florida.

Gulf Consortium. (2013). *Florida marine ecosystem and impact on economy.* Key Largo, FL.

National Fish & Wildlife Foundation. (2013). *Quantitative tools for sustaining coral reef
fisheries in Puerto Rico.* Multi-day technical workshop. San Juan, Puerto Rico.

Florida Keys National Marine Sanctuary. (2013). *Assessing reef fish changes and marine reserve
dynamics in Florida.* Marathon, FL.

Papahānaumokuākea national Marine Monument, NOAA. (2013). *Quantitative methods for
large-scale coral reef ecosystem surveys.* Multi-day technical workshop. Honolulu, Hawaii.

Union Club of New York City. (2013). *Tarpon and Bonefish Research Center.* New York, NY.

Florida Keys Eco-Discovery Center. (2013). *Life and times of the Fabulous Florida Keys
Fisheries.* Key West, Florida.

Plenary Speaker, 2012 INFORMS (Institute for Operations Research and Management Science)
Optimization Society Conference, ‘*Optimization and Analytics: New Frontiers in Theory and
Practice*’

NOS Science Seminar Series. *Sustaining coral reef fisheries of Puerto Rico.* (2012). NOAA
Headquarters, Silver Spring, Maryland.

141st American Fisheries Society National Meeting. *Assessing reef fish changes and marine
reserve dynamics in the Dry Tortugas, Florida.* (2011). Seattle, Washington.

Western Pacific Regional Fishery Management Council. ‘*Developing Annual Catch Limits
Guidelines for Pacific Island Reef Fisheries: Defining Issues and Arriving at Prioritized
Actions*’. (2011). Honolulu, Hawaii.

NOS Science Seminar Series. *Length-based assessment of exploitation status and sustainability
benchmarks for coral reef fish.* (2011). NOAA Headquarters, Silver Spring, Maryland.

Puerto Rico Department of Natural Resources and the National Fish & Wildlife Foundation. *A
quantitative toolbox for sustaining coral reef fisheries of Puerto Rico.* (2010). San Juan,
Puerto Rico.

South Carolina Low Country Tarpon Tournament. (2011). Georgetown, SC.

Florida Keys Marine Ecosystem Science Conference. *Fishery Dynamics of the South Florida Marine Ecosystem*. (2010). Duck Key, Florida

63rd Gulf & Caribbean Fisheries Institute. *Coral reef fish-habitat modeling to support ecosystem-based management*. (2010). San Juan, Puerto Rico

Symposium on Oil Spill-Induced Trophic Cascades. *Using Satellite Tags to Assess Oil Spill Impacts on Tarpon*. (2010). Sarasota, Florida.

South Dade Anglers. (2010). Miami, FL

South Carolina Low Country Tarpon Tournament. (2010). Georgetown, SC.

National Institute of Mathematical & Biological Synthesis (NIMBioS) Workshop on . (2010). Knoxville, TN.

Cape Coral Yacht Club. (2010). Ft. Myers, FL.

Tropical Anglers Club. (2010). Miami, FL.

International Council for Exploration of the Seas – ICES. (2010). Copenhagen, Denmark.

National Science Foundation. (2009). Hilo, Hawaii.

Western Pacific Region Fishery Management Council. (2009). Kailua-Kona, Hawaii.

Scientific & Statistical Committee. WPRFMC. (2009). Kailua-Kona, Hawaii.

NOAA Southeast Data Assessment & Review. (2009). Charleston, SC

Caribbean Fishery Management Council. (2009). San Juan, Puerto Rico.

International Council for Exploration of the Seas ASC. (2008). Halifax, Nova Scotia, Canada.

Scientific Forum on the Gulf of Mexico Ecosystem. (2008). Sarasota, FL.

American Institute of Fisheries Research Biologists 50th Anniversary. (2007). Seattle, WA.

Gulf of Mexico Fishery Management Council Ecosystem Workshop (2007). St. Petersburg, FL.

Veracruz Yacht Club (2007). Veracruz, Mexico.

SFWMD Ecological Modeling Workshop. (2007). West Palm Beach, FL

American Fisheries Society 137th Annual Meeting. (2007). San Francisco, CA.

Texas Tarpon Pro-Am Tournament Series. (2007). Galveston & Port O'Connor, TX.

Biscayne Bay Yacht Club (2007). Coconut Grove, FL.

National Park Service ENP GMP. (2007). Homestead, FL.

Florida Governor & Cabinet session. (2006). Tallahassee, FL.

Smithsonian Environmental Research Center (2006). Edgewater, MD.

Chesapeake Fish Stock Monitoring Workshop. (2006). Annapolis, MD.

Hawaii Fishery-Independent Monitoring Workshop. (2006). Honolulu, Hawaii.

Veracruz Yacht Club (2006). Veracruz, Mexico.

Stuart Rod & Reel Club (2006). Jensen Beach, FL.

Florida Fish & Wildlife Conservation Commission. (2006). Gainesville, FL.

University of South Florida, College of Marine Science. (2006). St. Petersburg, FL.

Coral Reef Yacht Club. (2006). Coconut Grove, FL.

Islamorada Fishing Club. (2006). Islamorada, FL.

Tropical Anglers Club. (2006). Miami, FL.

58th Gulf & Caribbean Fisheries Institute. (2005). Isla San Andres, Colombia.

Backbone Gold Lecture. (2005). Ocean Reef Club, FL.

Florida Fish & Wildlife Conservation Commission. (2005). Key Largo, FL.

Florida Governor & Cabinet. (2005). Tallahassee, FL.

NOAA Coastal Conservation & Marine Assessment. (2005). Washington, DC.

University of Puerto Rico. (2005). Mayaguez, Puerto Rico.

Florida Fish & Wildlife Research Institute. (2005). St. Petersburg, FL.

Atlantic States Marine Fisheries Commission. (2005). Norfolk, VA.
IGFA Rolex Tarpon Tournament. (2005). Veracruz, Mexico.
2nd Annual RSMAS Alumni Lecture. (2005). Miami, FL.
Western Pacific Region Fishery Management Council. (2005). Honolulu, Hawaii.
Taiwan National University. (2005). Taipei, Taiwan.
Florida Keys Fishing Guides Association. (2005). Islamorada, FL.
NCORE Science Forum. (2005). Miami, FL.
Biscayne Bay Watershed Protection Committee. (2004). West Palm Beach, FL.
U.S. Coral Reef Task Force. (2004). Miami, FL.
New York Angler's Club. (2004). Manhattan, NY.
5th Mote International Symposium in Fisheries Ecology. (2004). Sarasota, FL.
Texas A&M University. (2004). Corpus Christi, TX.
University of Texas. (2004). Port Aransas, TX.
4th World Fisheries Congress. (2004). Vancouver, British Columbia.
Florida Keys Fishing Guides Association. (2004). Islamorada, FL.
Western Pacific Fishery Management Council. (2004). Honolulu, Hawaii.
Gulf of Mexico and South Atlantic Fisheries Management Councils. (2004). Tampa, FL.
Cornell University. (2003). Ithaca, New York.
University of Massachusetts. (2003). Amherst, MA.
University of Puerto Rico. (2003). Mayaguez, Puerto Rico.
Rutgers University. (2003). New Jersey.
Notre Dame University. IUCN Sustainable Use Specialist Group. (2003). South Bend, Indiana.
Atlantic States Marine Fisheries Commission. (2002). Baltimore, Maryland.
Florida Keys National Marine Sanctuary, Sanctuary Advisory Council. (2002). Marathon, FL.
Duke University, Nicholas School of the Environment. (2001). Beaufort, NC.
Back Reefs Workshop. (2001). Lee Stocking Island, Bahamas.
Everglades/Dry Tortugas National Park (2001). Homestead, FL.
Shanghai Fisheries University. (2000). Shanghai, China.
Atlantic States Fishery Management Council. (2000). Washington, DC.
RSMAS Summer Seminar Series. (2000). Miami, FL.
University of Bergen. International Spatial Modeling Workshop. (2000). Bergen, Norway.
Florida Keys National Marine Sanctuary Advisory Council. (2000). Key Largo, FL.
8th PICES Marine Science Organization of the North Pacific. (1999). Vladivostok, Russia.
Florida Bay Science Conference. (1999). Key Largo, FL.
NOAA National Ocean Service National Marine Sanctuary Division. (1999). Washington, DC.
129th American Fisheries Society. (1999). Charlotte, North Carolina.
National Academy of Sciences, NRC Committee on *Marine Reserves*. (1999). Islamorada, FL.
Florida Keys NMS Advisory Council. (1999). Key West, FL.
South Atlantic Fishery Management Council. (1998). Kill Devil Hills, NC.
Marine Stock Enhancement Advisory Panel, FDEP. (1998). Miami, FL.
South Florida Water Management District. (1998). West Palm Beach, FL.
Florida Keys National Marine Sanctuary. (1998). Key West, FL.
American Institute of Fisheries Research Biologists. (1998). Miami, FL

TEACHING SPECIALIZATION

Graduate Teaching

Marine Biology & Fisheries (MBF)

MBF 571 **Ecological Modeling** (3 cr.)

Semesters taught: Fall 1994, Fall 1996, Fall 1998, Fall 2001.

MBF 613 **Marine Population Dynamics** (3 cr.)

Semesters taught: Spring 1994.

MBF 614 **Population Modeling and Management**(3 cr.)

Semesters taught: Fall 1993, Fall 1995, Fall 1998, Fall 2001, Spring 2004, Fall 2006, Fall 2010, Fall 2012

MBF 615 **Advanced Biometrics in Marine Science** (3 cr.)

Semesters taught: Spring 1997, Fall 1999, Spring 2003, Fall 2008, Fall 2009, Fall 2011.

Management Science & Industrial Engineering (MAS/IEN)

MAS/IEN 547 **Computer Simulation Systems**. (3 cr.)

Semesters taught: Fall 2002.

Undergraduate Teaching

Marine Science (MSC)

MSC 310 **Living Resources of the Global Ocean** (3 cr.)

Semesters taught: Spring 1994.

THESIS AND DISSERTATION ADVISING

Chair of Completed Degrees

Michael F. Larkin. Ph.D. (2011). *Assessment of the Florida Bonefish Stock*. University of Miami RSMAS.

Dione W. Swanson, Ph.D. (2011). *Spatial dynamics of coral populations in the Florida Keys*. University of Miami RSMAS

McCrea-Strub, Ashley, Ph.D. (2009). *Evaluation of Dynamic Interactions Between Predators, Prey and Fisheries in Ecosystem Models*. University of Miami RSMAS.

Farmer, Nicholas A., Ph.D. (2009). *Reef Fish Movements and Marine Reserve Designs*. University of Miami RSMAS

Molina-Urena, Helena, Ph.D. (2009). *Towards An Ecosystem Approach for Non-Target Reef Fishes: Habitat Uses and Population Dynamics of South Florida Parrotfishes (Perciformes: Scaridae)*. . University of Miami RSMAS

Feeley, Michael W., Ph.D. (2006). *Bioenergetics of juvenile billfish and cobia*. Co-Chair with Daniel Benetti. University of Miami RSMAS.

Robbins, Robert J., Ph.D. (2005). *Impacts of salinity fluctuations on the productivity of coastal mangrove fish populations*. University of Miami RSMAS.

Franklin, Erik C., M.S. (2004). *Habitat-based assessment protocol for the Florida marine aquaria fishery with applications to gray angelfish*. University of Miami RSMAS.

Diaz, Guillermo A., Ph.D.(2001). *Population dynamics and assessment of pink shrimp (Farfantepenaeus duorarum) in a subtropical nursery grounds*. Winner of Koczy Fellowship

- in Marine Sciences (2000-2001). Winner of Dean's Prize (1995).
- Humston, Robert, Ph.D. (2001). *Development of movement models to assess the spatial dynamics of marine fish populations*. Koczy Fellowship in Marine Sciences (1999-2000). University of Miami Graduate Fellowship (1996-1998). Co-Chair with Don Olson.
- Orhun, M. Refik, Ph.D. (2001). *Empirical and quantitative analysis of marine fish larvae dynamics*. University of Miami RSMAS.
- Meester, Geoffrey A., Ph.D. (2000). *A mathematical programming and simulation-based approach to determining critical factors in the design of effective marine reserve plans for coral reef fishes*. Awarded Smith Prize for best Ph.D. Dissertation (2000) at RSMAS. Dr. Meester was also a University of Miami Graduate Fellow (1996-1998).
- Meester, Geoffrey A., M.S. (1999). *Designing marine reserves for fishery management*. Department of Management Science, University of Miami. Co-Chair with Anuj Mehrotra.
- Smith, Steven G., Ph.D. (1997). *Models of crustacean growth dynamics*. University of Maryland College Park. Co-Chair with Estelle Russek-Cohen (Univ. MD Statistics Department).
- Lindeman, Kenyon C., Ph.D. (1997). *Development of grunts and snappers of southeast Florida: cross-shelf distributions and effects of beach management alternatives*. University of Miami RSMAS.

Committee Member of Completed Degrees

- Drew, Katie. Ph.D. (2010). *Incorporating age and growth information into white marlin (*Kajika albida*) stock assessments*. University of Miami RSMAS.
- Robinson, Judy. M.S. (2008). *A Comparison of Mesobenthic Amphipod Diversity on 3-Dimensional Artificial Substrates versus Natural Substrates in a Shallow Coral Reef Environment*. Nova Southeastern University Oceanographic Center.
- Fiechter, Jerome, Ph.D. (2007). *Living on the edge of the Florida current: a study of the physical processes affecting primary production and larval transport*. University of Miami RSMAS.
- Moulding, Alison, Ph.D. (2006). *The role of coral recruitment as a structuring factor of coral reef communities*. University of Miami RSMAS.
- Kaufman, Louis, Ph.D. (2004). *Population dynamics and community ecology of gorgonians in south Florida*. University of Miami RSMAS.
- Lorenz, Jerome, Ph.D. (2001). *Impacts of water management on roseate spoonbills and their piscine prey in the coastal wetlands of Florida Bay*. Awarded Smith Prize for Best Ph.D. Dissertation (2001) at University of Miami RSMAS.
- Fairweather, Tracey Pamela, M.S. (2001). *An analysis of the trawl and longline fisheries for *Merluccius capensis* off the west coast of South Africa*. Master of Science degree with Distinction. External Examiner, Rhodes University, South Africa.
- Ortiz, Mauricio, Ph.D. (1998). *Shrimp bycatch in the US Gulf of Mexico: review and evaluation of bycatch effects on exploited fish*. University of Miami RSMAS.
- Smith, Steven M., Ph.D. (1997). *Mangrove community dynamics in south Florida*. University of Miami RSMAS.
- Legault, Christopher M., Ph.D. (1997). *Management of a multigear fishery exploiting a highly migratory stock: Spanish mackerel (*Scomberomorus maculatus*) in the eastern Gulf of Mexico*. University of Miami RSMAS.
- Yeung, Cynthia, Ph.D. (1996). *Transport and retention of lobster phyllosoma larvae in the FL Keys*. University of Miami RSMAS.
- Koch, Marguerite S., Ph.D. (1996). *Resource availability and abiotic stress effects on red*

- mangrove development in south Florida*. University of Miami RSMAS.
- Pike, Charles S., Ph.D. (1993). *A population dynamic study of the south Florida spiny lobster fishery using simulation modeling*. University of Miami RSMAS.
- Post, James T., M.S. (1997). *Field and laboratory observations of larval Atlantic sailfish (*Istiophorus platypterus*) and swordfish (*Xiphias gladius*)*. University of Miami RSMAS.
- Martinez, Jose, M.S. (1996). *Population dynamics of hakes and cods*. University of Miami RSMAS.
- Aman, Michelle R., M.A. (1995). *A recent review of retroviral diseases of fish and suggestions for future research*. Division of Marine Affairs. University of Miami RSMAS.
- Holmes, Alfred H., M.A. (1995). *Source book for algorithms, formulae and numerical relationships that describe mangrove states and processes*. Division of Marine Affairs. University of Miami RSMAS.
- Endo, Shinichi, M.S. (1992). *Gear selection and abundance estimation for blue crabs in Chesapeake Bay*. University of Maryland

Graduate Degrees in Progress

- Chair, Ph.D., Nathan Vaughan. *Bioenergetics of Predator-Prey Dynamics*.
- Chair, Ph.D., Marc Nadon. *Multispecies Assessment of Pacific Island Coral Reef Fishes*.
- Committee Member Ph.D., William Harford. *Spatially-explicit modeling and decision-making*.
- Committee Member Ph.D., Elizabeth Martin. *Mathematics of ecosystem dynamics*.
- Chair, Ph.D., Molly Stevens, *Economic analysis of Florida reef fish fisheries*
- Chair, Ph.D., Christine Harvey, *Spatial dynamic models of coastal marine ecosystems*

POST-DOCTORAL STUDENT SUPERVISION

- Dr. Marilyn Brandt (2007-2009). *Statistical mechanics of Caribbean coral reef ecosystems*.
- Dr. Guillermo A. Diaz. (2001-03). *Fishery ecosystem dynamics and stock assessment*.
- Dr. M. Refik Orhun. (2001-03). *Marine fish recruitment dynamics*.
- Dr. Robert Humston. (2001-02). *Spatial models for bonefish-tarpon population dynamics*.
- Dr. Geoffrey A. Meester (2000-02). *Spatial modeling, operations research, reserve designs*.
- Dr. Muge Hekimoglu. (1998-99). *Fish bioenergetics and trophodynamics*.
- Dr. Kenyon C. Lindeman. (1997-98). *Spatial fish-habitat ecology*.
- Dr. Steven G. Smith. (1997). *Multivariate statistics, population dynamics, and sampling theory*.
- Dr. Jiangang Luo. (1996). *Spatial multispecies biophysical modeling and data visualization*.
- Dr. Joseph E. Serafy. (1993-95). *Marine fish ecology*.

UNIVERSITY COMMITTEE AND ADMINISTRATIVE RESPONSIBILITIES

- CIMAS Council of Fellows (2010)
- UM Biology Department Graduate Program Review (2010), Internal Committee.
- RSMAS Faculty Development Committee (2009-present)
- Center for Computational Science, ARES Allocations Committee (2009-present)
- Steering Committee, Institute for Theoretical and Mathematical Ecology (2007-present)
- Chair, RSMAS Computing and Communications Committee (since 2004; member since 1998)
- Inter-American Seas Initiative Steering Committee (since 1997)
- Cooperative Unit for Fisheries Education and Research, Ex-Officio Member (since 1994)
- Cooperative Institute of Marine and Atmospheric Science, Member (1995-present)
- RSMAS Alumni Steering Committee (2003-2005)

University of Miami Graduate Fellowships Committee (1993-2005)
MBF Division Academic Committee (1993-2003)
RSMAS Academic Committee (1993-2000)
Maytag Chair Search Committee MBF (1996-1998)
Aquaculture Professor Search Committee MAF (1998)
Rosenstiel Award Committee (1998)
RSMAS Alumni Steering Committee (1993-1996)

STATE/REGIONAL SERVICE

Scientific Advisory Board, Oceanic Conservation Organization
Executive Board of Directors, Bonefish & Tarpon Trust
External Expert, International Council for the Exploration of the Seas, WKDEEP (2010)
Board of Scientific Counselors, Environmental Protection Agency
National Park Fisheries Management Steering Committee, (since 2001)
Florida Keys National Marine Sanctuary, Technical Advisory Committee (1999-2010)
Statistical Review Panel, Florida Fish & Wildlife Conservation Commission, (since 1998)
Steering Committee, Florida Estuarine Living Marine Resources, (since 1997)
Marine Stock Enhancement, Advisory Panel, FL Dept. Environmental Protection, (since 1998)
Biscayne Bay Partnership Initiative, Science Panel -- Chair "Coupling" workgroup, (1999-2003)
Scientific and Statistical Committee, South Atlantic Fishery Management Council, (1997-2001)
STAR Panel, Pacific Fishery Management Council, (1999-2001)
Gulf of Mexico Fishery Management Council, Mackerel Stock Assessment Panel, (1997-1999)
Gulf of Mexico Fishery Management Council, Finfish Stock Assessment Panel, (1997-1999)
Florida Chapter American Fisheries Society, Marine Reserves Task Force, (1997-1998)

SERVICE OUTSIDE REGION

External Expert, International Council for the Exploration of the Seas, WKDEEP (2010)
Outside Expert, Chesapeake Fish Stock Monitoring (since 2006)
Expert Ecosystems Management, Western Pacific Fishery Management Council, Honolulu, HI
NOAA Northeast Fisheries Science Center, Essential Fisheries Habitat, Technical Committee
North American Sustainable Use Specialists Group, World Conservation Union (since 2001)
Technical Advisory Committee, Lake Ontario Ecosystem Forage Assessment, NOAA & NY Sea Grant (2003).
Technical Advisory Committee, Southeast Bering Sea Ecosystem Carrying Capacity. NOAA/NOS (since 2000)
Steering Committee, International Reef Condition, Ocean Conservancy (since 2000)
Gulf and Caribbean Fisheries Institute, (since 1999)
Expert, Coral Reef Fish Stock Assessment. W. Pacific Fishery Management Council. (2004).
Full-scale Evaluation Team. University of Alaska Fairbanks, School of Fisheries and Ocean Sciences. Northwest Commission on Colleges and Universities. (2001)
Special Graduate Faculty Member, Dept. of Zoology, Univ. Maryland at College Park (1997-99)
U.S. Delegation to ICES 86th Statutory Meeting. (1998). Cascais, Portugal.
NOAA Strategic Planning Advisory Panel. Washington, D.C. (1998-1999)
NOAA Chesapeake Bay COASTES Advisory Committee, Washington, D.C. (1997-2000).
American Fisheries Society Special Committee on "Bycatch". (1997).
American Fisheries Society Electronic Media Task Force, (1996-1997).

U.S. Delegation to ICES 79th Statutory Meeting. (1991). LaRochelle, France.
National Academy of Sciences, Ocean Studies Board. (1991).
MFMCA Act Reauthorization Subcommittee. American Fisheries Society. (1989).

Voice of America (VOA) News (2009) --[Tarpon - World's Best Fish?](#) Released for World
Oceans Day, June 12, 2009.
VOA News (2009) – *Scientists Say Florida's Coral Reef Ecosystem has diminished.*
Public Broadcasting System (2010).