

January, 2007

Curriculum Vitae

JERALD STEPHEN AULT

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

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Home address: 155 Ocean Lane Drive #912, Key Biscayne, Florida 33149, (305)361-0900

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

HIGHER EDUCATION

Postdoctoral University of Maryland (1990). 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. **Completed 1-year of Ph.D. coursework. 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. Arcata, California.

A.A. San Diego Mesa College (1977). Life Sciences/Mathematics.

EXPERIENCE

1999-present Associate Professor of Marine Biology and Fisheries (Tenured), 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

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, California. 77 p.

BOOKS

Ault, J.S. (Editor). 2007. Biology and Management of the World Tarpon and Bonefish Fisheries. Taylor & Francis Group, CRC Series in Marine Science. Oxford, UK. ISBN 084932792X. 550 p., in press.

REFEREED JOURNAL ARTICLES

Bartholomew, A., J.A. Bohnsack, S.G. Smith, **J.S. Ault**, D.E. Harper, and D.B. McClellan. (2006). 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*

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.

Ault, J.S., Smith, S.G., Meester, G.A., Luo, J., Franklin, E.C., Bohnsack, J.A., Harper, D.E., McClellan, D.B., Miller, S.L., Chiappone, M., and Swanson, D.W. (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.

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.

Chiappone, M., S.L. Miller, D.W. Swanson, **J.S. Ault**, and S.G. Smith. (2001). Comparatively high densities of long-spined sea urchins in the Dry Tortugas, Florida. Coral Reefs 20(2): 137-138.

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**. (1999). 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.

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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.

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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. (1990). 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: simulated 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.

BOOK CHAPTERS (Peer reviewed)

Ault, J.S. (2007). 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 the Environment. Oxford, UK. 550 p.

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. (2007). Population dynamics and resource ecology of Atlantic tarpon and bonefish. Chapter 16 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on the Environment. Oxford, UK. 550 p.

Luo, J., **J.S. Ault**, M.F. Larkin, R. Humston, and D.B. Olson. (2007). 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*. Taylor and Francis Group. CRC Series on the Environment. Oxford, UK. 550 p.

Larkin, M.F., **Ault, J.S.**, R. Humston, and J. Luo. (2007). 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 the Environment. Oxford, UK. 550 p.

Ault, J.S., S. Moret, J. Luo, M.F. Larkin, N. Zurcher, and S.G. Smith. (2007). Florida Keys bonefish population census. Chapter 19 in Ault, J.S. (ed.) *Biology and Management of the World Tarpon and Bonefish Fisheries*. Taylor and Francis Group. CRC Series on the Environment. Oxford, UK. 550 p.

Humston, R. **J.S. Ault**, J. Schratwieser, M.F. Larkin, and J. Luo. (2007). 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 the Environment. Oxford, UK. 550 p.

Ault, J.S., J. Luo, and J.D. Wang. (2003). A spatial ecosystem model to assess spotted seatrout population risks from exploitation and environmental changes. Chapter 15, Pages 267-296 in Biology of Spotted Seatrout. S.A. Bortone (ed.). CRC Press, Boca Raton, Florida.

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.

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. Pages 1-18 in Spatial Processes and Management of Fish Populations. Alaska Sea Grant College Press. Fairbanks, AK. 750 p.

Ault, J.S., J.A. Bohnsack, and G.A. Meester. (1997). Florida Keys National Marine Sanctuary: retrospective (1979-1995) assessment of reef fish and the case for protected marine areas. Pages 415-425 in Developing and Sustaining World Fisheries Resources: The State of Science and Management, Hancock, D.A., Smith, D.C., Grant, A., and Beumer, J.P. (eds.). 2nd World Fisheries Congress, Brisbane, Australia, 797 p.

Rothschild, B.J., **J.S. Ault**, and S.G. Smith. (1996). A systems science approach to fisheries stock assessment and management. Pages 473-492 in Stock Assessment: Quantitative Methods and Applications for Small Scale Fisheries, Gallucci, V.F., Saila, S., Gustafson, D., and B.J. Rothschild (eds.). Lewis Publishers (Div. of CRC Press). Chelsea, Michigan, 527 p.

Ault, J.S., R.N. McGarvey, B.J. Rothschild, and J. Chavarria. (1996). Stock assessment computer algorithms. Pages 501-515 in Stock Assessment: Quantitative Methods and Applications for Small Scale Fisheries, Gallucci, V.F., Saila, S., Gustafson, D., and B.J. Rothschild (eds.). Lewis Publishers (Division of CRC Press). Chelsea, Michigan, 527 p.

BOOK REVIEWS

Ault, J.S. (2004). Population genetics: principles and applications for fisheries scientists. *Quarterly Review of Biology* 79(1): 95-96.

Ault, J.S. (2000). Quantitative fish dynamics. *The Quarterly Review of Biology* 75(3): 336.

Ault, J.S. (1997). Applied population ecology: a supply-demand approach. *The Quarterly Review of Biology* 44(4): 494.

Ault, J.S. (1995). Predictions under uncertainty: fish assemblages and food webs on the Grand Banks of Newfoundland. *Fisheries Review* 40(4): 537.

TECHNICAL MEMORANDA & COMPUTER SOFTWARE

Menza, C.W., **J.S. Ault**, J. Beets, J.A. Bohnsack, C. Caldwell, J. Christensen, A. Friedlander, C. Jeffrey, M. Kendall, J. Luo, M. Monaco, S.G. Smith and K. Woody. (2006). A Guide to Monitoring Reef Fish in the National Park Service's South Florida / Caribbean Network. NOAA Technical Memorandum NOS NCCOS 39. 169 p.

Ault, J.S. (2005). Contributor to NOAA Technical Memorandum NOS NCCOS 11 '*The State of Coral Reef Ecosystems of the United States and Pacific Freely Associated States: 2005*'.

Ault, J.S., and N.M. Ehrhardt. (2003). Ault and Ehrhardt method to estimate total mortality in fish stocks. FiSAT II Software FAO-ICLARM Stock Assessment tools VER 1.00 from 1 June 2003. <http://www.fao.org/fi/statist/fisoft/fisat/index.htm>.

Ault, J.S., S.G. Smith, J. Luo, G.A. Meester, J.A. Bohnsack, and S.L. Miller. (2002). Baseline multispecies coral reef fish stock assessment for the Dry Tortugas. NOAA Technical Memorandum NMFS-SEFSC-487. 117 p.

Ault, J.S., S.G. Smith, G.A. Meester, J. Luo, and J.A. Bohnsack. (2001). Site characterization for Biscayne National Park: assessment of fisheries resources and habitats. NOAA Technical Memorandum NMFS-SEFSC-468. 185 p.

Ault, J.S., G.A. Meester, K.C. Lindeman, J. Luo, and D.G. Clarke. (2000). FISHFATE user's guide: spatial-temporal population simulation model. *DOER Technical Notes Collection* (ERDC TN DOER-E11), U.S. Army Engineer Research and Development Center, Vicksburg, MS. www.wes.army.mil/el/dots/doer

Ault, J.S., G.A. Meester, J. Luo, S.G. Smith, and K.C. Lindeman. (2000). Dry Tortugas National Park natural resources affected environment. General Management Plan and Environmental Impact Statement. National Park Service. Denver, CO. 250 p.

Bohnsack, J.A., D.B. McClellan, D.E. Harper, G.S. Davenport, G.J. Konoval, A.M. Eklund, J.P. Contillo, S.K. Bolden, P.C. Fischel, G.S. Sandorff, J.C. Javech, M.W. White, M.H. Pickett, M.W. Hulsbeck, J.L. Tobias, **J.S. Ault**, G.A. Meester, S.G. Smith, and J. Luo. (1999). Baseline data for evaluating reef fish populations in the Florida Keys, 1979-1998. NOAA Technical Memorandum NMFS-SEFSC-427. Miami, Florida. 61 p.

Schmidt, T.W., **J.S. Ault**, and J.A. Bohnsack. (1999). Site characterization for the Dry Tortugas region: fisheries and essential habitats. Florida Keys National Marine Sanctuary and National

Park Service. NOAA Technical Memorandum NMFS-SEFSC-425. 95 p.

Ault, J.S., and J. Luo. (1998). Coastal bays to coral reefs: systems use of scientific data visualization in reef fishery management. International Council for the Exploration of the Seas. ICES C.M. Statistics 1998/S:3

Ault, J.S., K.C. Lindeman, and D.G. Clarke. (1998). FISHFATE: Population dynamics models to assess risks of hydraulic entrainment by dredges. *DOER Technical Notes Collection* (TN DOER-E4), U.S. Army Engineer Research and Development Center, Vicksburg, MS.
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Palmer, S., **J.S. Ault**, and M. Luther. (1997). Mathematical modeling in marine resource protection. Pages 147-154 in *Tampa Bay Area Scientific Inform. Symp.*, BASIS 3, 290 p.

Smith, S.G., and **J.S. Ault**. (1993). Statistical sampling design analysis of the 1991-1992 Puerto Rico shallow-water reef fish monitoring survey. N. Thompson (ed.), NOAA Technical Memorandum NMFS/SEFSC 331.

TECHNICAL REPORTS AND OTHER PUBLICATIONS

Ault, J.S., and S.G. Smith. (2006). Statistical analysis of existing data towards application of ecosystem-based management in the northwestern Hawaiian Islands Monument. Final Report to NOAA/NOS NW Hawaiian Islands Monument. 148 p.

Ault, J.S., S.G. Smith, and T. Schmidt. (2006). Assessment of coral reef fishery resources in Dry Tortugas National Park: 1999-2004. Final Report to the National Park Service 2005. 80 p.

Ault, J.S., S.G. Smith, J.A. Bohnsack, J. Luo, D.E. Harper, and D.B. McClellan. (2006). Fishery-independent monitoring of coral reef fishes and macroinvertebrates in the Dry Tortugas. Final Report to the National Park Service and NOAA Coral Reef Program. 98 p.

Trice, J., and **J.S. Ault**. (2006). Bonefish & Tarpon Unlimited teaming up with University of Miami and Redbone. Redbone Journal Fall 2006: 77-87.

Ault, J.S., S.G. Smith, and T. Schmidt. (2006). Assessment of coral reef fishery resources in Dry Tortugas National Park: 1999-2004. Final Report to the National Park Service 2005. 80 p.

Ault, J.S., and S.G. Smith. (2006). Fishery management analyses of reef fish in Biscayne National Park: bag & size limit alternatives. Final Report to Biscayne National Park. 55 p.

Luo, J., **J.S. Ault**, D.B. Olson, K. Hartman, A. McCrea, L. Kline, G. White, and P. Kilduff. (2005). A spatial ecosystem model for Atlantic coast multispecies fisheries assessments of menhaden and bluefish. Final Report to the Atlantic States Marine Fisheries Commission. 81 p.

Ault, J.S., M.F. Larkin, J. Luo, N. Zurcher, and D. Debrot. (2005). Bonefish-tarpon conservation research program. Final Report to Friends of the Florida Keys National Marine Sanctuary. 91 p.

Ault, J.S., S.G. Smith, and W.B. Perry. (2005). Fishery resource habitat use modeling in Florida Bay: Development and Application to Everglades Restoration Implementation (Phase 1). Final Report to National Park Service on Coop. Agreement No. H500000B494-J5280040007. 80 p.

Ault, J.S., Smith, S.G., Bohnsack, J.A., Luo, J., Harper, D.E., and D.B. McClellan. (2005). Fishery-independent monitoring of coral reef fishes and macroinvertebrates in the Dry Tortugas. Final Report to the National Park Service, Florida Keys National Marine Sanctuary, and NOAA Fisheries. 59 p.

Ault, J.S., S.G. Smith, D.B. McClellan, N. Zurcher, E.C. Franklin, and J.A. Bohnsack. (2004). An aerial survey method for estimation of boater use in Biscayne National Park during 2003-2004. Final Report to the National Park Service. 44 p.

Ault, J.S., N. Zurcher, E.C. Franklin, S.G. Smith, and J. Luo. (2004). A strategy for managing marine ecological resources in Dry Tortugas National Park. Final Report to National Park Service. 75 p.

Ault, J.S., G. Begg, N. Gribble, M. Kulbicki, B. Mapstone, and P. Medley. (2004). Coral reef fish stock assessment workshop. Expert Panel Report. Western Pacific Fishery Management Council. Honolulu, HI. 35 p.

Ault, J.S., Smith, S.G., Diaz, G.A., and E.C. Franklin. (2003). Florida hogfish fishery stock assessment. Report to the Florida Fish and Wildlife Conservation Commission. 67 pp + Figures and Tables.

Ault, J.S., S.G. Smith, E.C. Franklin, J. Luo and J.A. Bohnsack. (2003). Sampling design analysis for coral reef fish stock assessment in Dry Tortugas National Park. Final Report, National Park Service Contract No. H5000000494-0012.

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 Scientific Research SCUBA Diver - American Association of Underwater Scientists (Research Diver 100 ft certification). I also possess the following advanced training certifications:

- Red Cross CPR
- Red Cross O2 Provider
- Dive Accident Management Training
- NOAA Advanced Diver NITROX certification.

FUNDED RESEARCH PERFORMED (2000-2006)

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. 01/05-6/06. 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. 08/04-9/05. National Park Service CESU No. H500000B494-J5280020499. \$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 (*Albula vulpes*) 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 2000 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.

CURRENT INTERNATIONAL & NATIONAL COMMITTEE MEMBERSHIPS

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

Board of Scientific Counselors, US EPA Office of Research and Development

Steering Committee, UN Organization of Eastern Caribbean States Partnership Programme

Science Delegate, White House Conference on Cooperative Conservation

Chair, Florida Fisheries Summit, Science & Conservation Group, FWC Commission

Focus Group Leader, Hawaiian Archipelago Ecosystem Modeling & Forecasting

Technical Advisory Committee, Northwest Hawaiian Island Monument

Management Committee, NOAA Caribbean Coral Reef Ecosystem Science (CRES)

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, NOAA, FWC & TNC Florida Reef Resiliency Program

Technical Advisory Committee, NOAA Southeast Bering Sea Carrying Capacity Study

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

Steering Committee, Florida Reef Resilience Program

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

Chair of Research Awards, American Institute of Fisheries Research Biologists

Executive Committee & Founding Member, Bonefish-Tarpon Unlimited Inc.

American Fisheries Society, Fisheries Conservation Foundation

EDITORIAL RESPONSIBILITIES

Peer-reviewer 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
Estuaries
Environmental Biology of Fishes
Fishery Bulletin
Fisheries Review
Frontiers in Ecology and the Environment
Gulf & Caribbean Fisheries Institute
ICES Journal of Marine Research
Journal of Fish 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)

I have completed writing and editing of the book:

Ault, J.S. (Editor). 2007. The Biology and Management of the World Tarpon and Bonefish Fisheries. Taylor & Francis, CRC Series on the Environment. CRC Press. Boca Raton, FL. ISBN 084932792X. 550 p.

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

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 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.

Nominated for a Pew Fellowship in Marine Science (2005).

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

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

Best 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). National Sea Grant Association annual award for top 8 *Marine Science* Ph.D. Dissertations.

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.

Third Place Award. National Essay Contest. American Legion. (1967).

PRESENTATIONS AT NATIONAL AND INTERNATIONAL SCIENTIFIC MEETINGS

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

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

Atlantic Coast 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.

INVITED OUTSIDE LECTURES (Last 5 years)

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

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

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 Level 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.

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

Semesters taught: Spring 1997, Fall 1999, Spring 2003.

Management Science & Industrial Engineering (MAS/IEN)

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

Semesters taught: Fall 2002.

Undergraduate-Level 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

- Chairman, Helena Molina-Urena, Ph.D. (2007). *Comparative habitat uses and population dynamics of south Florida parrotfishes*. Ph.D. Candidate. (defended Fall 2006)
- Michael C. Feeley, Ph.D. (2006). *Bioenergetics of juvenile billfish and cobia*. Co-Chair Daniel Benetti. University of Miami RSMAS.
- Robert J. Robbins, Ph.D. (2005). *Impacts of salinity fluctuations on the productivity of coastal mangrove fish populations*. University of Miami RSMAS.
- Erik C. Franklin, M.S. (2004). *Habitat-based assessment protocol for the Florida marine aquaria fishery with applications to gray angelfish*. University of Miami RSMAS.
- Guillermo A. Diaz, 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).
- Robert Humston, 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.
- M. Refik Orhun, Ph.D. (2001). *Empirical and quantitative analysis of marine fish larvae dynamics*. University of Miami RSMAS.
- Geoffrey A. Meester, 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).
- Geoffrey A. Meester, M.S. (1999). *Designing marine reserves for fishery management*. Department of Management Science, University of Miami. Co-Chair with Anuj Mehrotra.
- Steven G. Smith, Ph.D. (1997). *Models of crustacean growth dynamics*. University of Maryland College Park. Co-Chair with Estelle Russek-Cohen (Univ. MD Statistics Department).
- Kenyon C. Lindeman, 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

Committee Member, Ph.D. (2006). Alison Moulding. *The role of coral recruitment as a structuring factor of coral reef communities*. University of Miami RSMAS.

Committee Member, Ph.D. (2004). Louis Kaufman. *Population dynamics and community ecology of gorgonians in south Florida*. University of Miami RSMAS.

Committee Member, Ph.D. (2001). Dr. Jerome Lorenz. *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.

External Examiner, M.S. (2001). Tracey Pamela Fairweather. *An analysis of the trawl and longline fisheries for Merluccius capensis off the west coast of South Africa*. Master of Science degree with Distinction. Rhodes University, South Africa.

Committee Member, Ph.D. (1998). Dr. Mauricio Ortiz. *Shrimp bycatch in the US Gulf of Mexico: review and evaluation of bycatch effects on exploited fish*. University of Miami RSMAS.

Committee Member, Ph.D. (1997). Dr. Steven M. Smith. *Mangrove community dynamics in south Florida*. University of Miami RSMAS.

Committee Member, Ph.D. (1997). Dr. Christopher M. Legault. *Management of a multigear fishery exploiting a highly migratory stock: Spanish mackerel (Scomberomorus maculatus) in the eastern Gulf of Mexico*. University of Miami RSMAS.

Committee Member, Ph.D. (1996). Dr. Cynthia Yeung. *Transport and retention of lobster phyllosoma larvae in the FL Keys*. University of Miami RSMAS.

Committee Member, Ph.D. (1996). Dr. Marguerite S. Koch. *Resource availability and abiotic stress effects on red mangrove development in south Florida*. University of Miami RSMAS.

Committee Member, Ph.D. (1993). Dr. Charles S. Pike. *A population dynamic study of the south Florida spiny lobster fishery using simulation modeling*. University of Miami RSMAS.

Committee Member, M.S. (1997). James T. Post. *Field and laboratory observations of larval Atlantic sailfish (Istiophorus platypterus) and swordfish (Xiphias gladius)*. University of Miami RSMAS.

Committee Member, M.S. (1996). Jose Martinez. *Population dynamics of hakes and cods*. University of Miami RSMAS.

Committee Member, M.A. (1995). Michelle R. Aman. *A recent review of retroviral diseases of fish and suggestions for future research*. Division of Marine Affairs. University of Miami RSMAS.

Committee Member, M.A. (1995). Alfred H. Holmes. *Source book for algorithms, formulae and numerical relationships that describe mangrove states and processes*. Division of Marine Affairs. University of Miami RSMAS.

Committee Member, M.S. (1992). Shinichi Endo. *Gear selection and abundance estimation for blue crabs in Chesapeake Bay*. University of Maryland

Graduate Degrees in Progress

Chairman, Ph.D. Dione Swanson. *Spatial dynamics of coral populations in the Florida Keys*. Ph.D. Candidate.

Committee Member, Ph.D. Jerome Fiechter. *Coupled physical-biological ocean simulations of the Florida Current mesoscale circulation, and implications for coastal ecosystems along the east Florida shelf*. Ph.D. Candidate.

Co-Chairman, Ph.D. Marcia Almeida. *Florida blue crab fishery bioeconomics*. Co-Chair Chris Legault (NMFS). Ph.D. Candidate.

Committee Member, Ph.D. Katie Drew. *Reducing uncertainty in white marlin (*Tetrapturus albidus*) stock assessments*. Ph.D. Candidate.

Chairman, Ph.D., Nicholas A. Farmer. *Reef fish movements and marine reserve designs*.

Chairman, Ph.D., Ashley McCrea.

Chairman, Ph.D., Michael Larkin.

POST-DOCTORAL STUDENT SUPERVISION

Dr. Guillermo A. Diaz. (2001-2003). *Fishery ecosystem dynamics and stock assessment*.

Dr. M. Refik Orhun. (2001-2003). *Marine fish recruitment dynamics*.

Dr. Robert Humston. (2001-2002). *Spatial models for bonefish-tarpon population dynamics*.

Dr. Geoffrey A. Meester (2000-2002). *Spatial modeling, operations research, and marine reserve design*.

Dr. Muge Hekimoglu. (1998-1999). *Fish bioenergetics and trophodynamics*.

Dr. Kenyon C. Lindeman. (1997-1998). *Spatial fish-habitat ecology*.

Dr. Steven G. Smith. (1997). *Multivariate statistics, fish population dynamics, and sampling theory*.

Dr. Jiangang Luo. (1996). *Spatial multispecies biophysical modeling and data visualization*.

Dr. Joseph E. Serafy. (1993-1995). *Marine fish ecology*.

UNIVERSITY COMMITTEE AND ADMINISTRATIVE RESPONSIBILITIES

Chairman, RSMAS Computer Committee (since 2004; member since 1999)
 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-present)
 University of Miami Graduate Fellowships Committee (1993-2005)
 MBF Division Academic Committee (1993-2003)
 RSMAS Academic Committee (1993-2000)
 RSMAS Computer Committee (1998-2000)
 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

National Park Fisheries Management Steering Committee, (since 2001)
 Florida Keys National Marine Sanctuary, Technical Advisory Committee, EPA-NOAA, (since 1999)
 Executive Committee & Board of Directors, Bonefish & Tarpon Unlimited, Inc. (since 1999)
 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

Outside Expert, Chesapeake Fish Stock Monitoring (since 2006)
 Expert Panelist, Ecosystems Management, Western Pacific Regional Fishery Management Council, Honolulu, HI (since 2005)
 NOAA Northeast Fisheries Science Center, Essential Fisheries Habitat, Technical Advisory Committee (since 2005)
 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 Panelist, 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. of 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).

MFMA Act Reauthorization Subcommittee. American Fisheries Society. (1989).