

A. Title Page:

Professional Development Grant Report
Arkansas Tech University

Travel Funds to the 2014 Annual Meeting of the Southern Division of the
American Fisheries Society in Charleston, South Carolina

by

John R. Jackson
Associate Professor of Fisheries
Department of Biological Sciences

September 28, 2015

B. Restatement of Problem Researched or Creativity:

The American Fisheries Society (AFS), founded in 1870, is the oldest and largest professional society representing fisheries scientists and managers. AFS promotes scientific research and enlightened management of resources for optimum use and enjoyment by the public. It also encourages a comprehensive education for fisheries scientists and continuing on-the-job training. Charleston, South Carolina was the location for the 2014 Annual Meeting of Southern Division of the AFS that was held from the 22nd through the 26th of January, 2014. Funding was provided through Arkansas Tech University: Professional Development Grant to attend and participate in this meeting.

C. and D. Brief Review of the Research Procedures and Summary:

I attended selected research symposia and a variety of professional activities that provided the opportunity for me to gain important knowledge of current fisheries related issues and potential future research collaborations (see meeting schedule below). I attended a leadership training workshop and the Business and Executive Board meetings as President-Elect of the Southern Division of AFS. In addition, I served as a judge during the Best Student Presentation Session on Friday afternoon and served as a professional mentor for a student during the meeting. Meeting students from across the region has produced recruitment of new graduate students into the ATU Fisheries and Wildlife Science MS Program. In addition, this experience was rewarding and produced positive exchange of ideas with the leadership of the American Fisheries Society. Finally, all presentations are available to view through podcast (see attached links below).

E. Conclusions and Recommendations:

The interactions with other fisheries professionals and students through this meeting increased my motivation to conduct top quality research and provided me with knowledge of current information that I have since disseminated to my graduate and undergraduate students in the classroom. This trip also provided opportunity for discussion of future collaboration with fisheries professionals at other universities and federal agencies. Based on the positive outcome of this trip, I plan on attending future AFS meetings and hope that funds will be available to assist in my travel.

MEETING AGENDA

Schedule at a Glance

Thursday: 23 Jan. 2014

8:00am – 5:00pm	Registration Open (Lobby)
8:30am – 12:00pm	<i>Technical Committee Meetings:</i> (Warmwater Streams, Striped Bass, Catfish Management, Alligator Gar, Reservoirs)
8:30am – 5:00pm	Meeting: SAMFC-SEAMAP (closed)
12:00pm – 1:30pm	Lunch (on your own)
1:30pm – 5:00pm	<i>Technical Committee Meetings:</i> (Warmwater Streams, Aquaculture, Small Impoundments, Alligator Gar, Reservoirs)
2:30pm – 3:30pm	South Carolina AFS Chapter Meeting (Pinckney Room)
3:30pm – 5:00pm	Southern Division AFS Executive Committee Meeting
6:30pm – 7:30pm	Welcoming Social (Gold Room)
6:00pm – until	Tradeshow Set-up (Carolina Ballroom)

-

Friday: 24 Jan. 2014

8:00am – 5:00pm	Registration Open (Lobby)
8:00am – 12:00pm	Tradeshow Set-up (Carolina Ballroom)
8:00am – 5:00pm	AV Presentation Loading (Middleton Room)
8:00am – 5:00pm	<i>Workshops:</i> Telemetry, Offshore Habitats, Instream Management, Fish Passage, Tagging/Mortality, Catfish Ageing, Genetic Fish Identification
12:00pm – 1:30pm	Past Presidents Luncheon
12:00pm – 1:30pm	Lunch (on your own)
12:00pm – 9:00pm	Tradeshow Open (Carolina Ballroom)
12:30pm	Genetic Fish ID Workshop participants picked up at hotel for transport to Hollings Marine Lab for workshop
5:00pm – 5:30 pm	South Carolina Fishery Workers Association (SCFWA) Business Meeting (Calhoun)
5:30pm – 7:00pm	Southern Division Business Meeting (Colonial Ballroom)
7:00pm – 9:00pm	Welcoming Social/Poster Session/Tradeshow (Carolina Ballroom and adjacent pre-function areas)

Saturday: 25 Jan. 2014

7:30am – 5:00pm	Registration Open (Lobby)
8:00am – 5:00pm	AV Presentation Loading (Middleton Room)
9:00 am – 5:00pm	Tradeshow Open (Carolina Ballroom)
9:00am – 5:00pm	Posters Open for viewing
8:30am – 10:00am	Plenary Session
10:00am – 10:30am	Break
10:30am – 12:00pm	<i>Symposia</i> : Atlantic & Gulf Sturgeon, Tagging
10:30am – 12:00pm	Student Oral Presentation Competition Session
10:30am – 12:00pm	<i>General Technical Presentations</i> (5 concurrent sessions)
12:00pm – 1:30pm	Student Mentor Lunch (outside hotel and on your own, up to Mentor and Student)
1:30am – 3:00pm	Student Oral Presentation Competition Session
1:30pm – 5:00pm	<i>Symposia</i> : Atlantic & Gulf Sturgeon
1:30pm – 3:00pm	<i>General Technical Sessions</i> (5 concurrent sessions)
3:00pm – 3:30pm	Break
3:30pm – 5:00pm	<i>Symposia</i> : Population Demographics through Tagging; Reef Fish
3:30pm – 5:00pm	<i>General Technical Sessions</i> (4 concurrent sessions)
5:30pm – 6:30pm	Harbor Cruise (sign up via registration)
7:00pm – 11:00 pm	Grand Social and Silent Auction at the South Carolina Aquarium

Sunday: 26 Jan. 2014

8:00am – 12:00pm	Trade Show Break Down (Carolina Ballroom)
8:00am – 12:00pm	Poster Session Break Down
8:30 am – 10:00am	<i>Symposia</i> : Atlantic & Gulf Sturgeon; Reef Fish; Population Demographics through tagging
8:30 am – 10:00am	<i>General Technical Sessions</i> (4 concurrent sessions)
10:00am – 10:30am	Break
10:30am – 12:30pm	<i>Symposia</i> : Atlantic & Gulf Sturgeon, Reef Fish
10:30am – 12:30pm	<i>General Technical Sessions</i> (2 concurrent sessions)
1:00pm – 2:00pm	Hand-Off Meeting and Lunch for EXCOM and 2015 SDAFS Meeting in Savannah, Georgia

2014 Meeting Podcasts

(<http://sdafs.org/meeting2014/2014-meeting-podcasts/>)

Plenary Session

Bioassessment in Water Resources Management to Study the Effects of Regional Status and Change
(Robert M. Hughes)

The value of a landscape-scale perspective (Buck Sutter)

B.A.S.S. (Gene Gilliland)

Atlantic and Gulf Sturgeon Conservation

Threats to Southern Sturgeons (Atlantic, Shortnose, and Gulf Sturgeons) in their Natal Rivers (Boyd Kynard)

An Overview of Population Structure in Gulf Sturgeon (Brian Kreiser)

Sensitivities of Atlantic Sturgeon and Shortnose Sturgeon Early Life-Stages to PCB-Induced Toxicities and Thermal Regimes (Isaac Wirgin et al.)

Attempting to Resolve Persistent Uncertainty in Gulf Sturgeon Stock Status (Robert Ahrens and Bill Pine III)

Estimating Sturgeon Abundance in the Carolinas Using Side-Scan Sonar and Bayesian Models (Jared Flowers and Joseph E. Hightower)

Do Macrobenthic Prey and Physical Habitat Characteristics Explain Differential Estuarine Critical Habitat Use Patterns in a Western Gulf Sturgeon Population? (Mark S. Peterson et al.)

Estuarine Habitat Use in Connecticut Waters by Shortnose and Atlantic Sturgeon. (Thomas Savoy)

Salinity effects on Atlantic Sturgeon growth and osmoregulation (Peter Allen et al.)

Coastal Movement of sub-adult Atlantic Sturgeon: Implications for limiting the interactions of human activities in assisting in species recovery (Keith Dunton et al.)

Legends of the fall; the evidence for fall spawning in Gulf of Mexico Sturgeon (Dewayne Fox et al.)

Do Macrobenthic Prey and Physical Habitat Characteristics Explain Differential Estuarine Critical Habitat Use Patterns in a Western Gulf Sturgeon Population (Mark Peterson et al.)

Fish Passage at the New Savannah Bluff Lock and Dam Augusta, GA (Bill Post et al.)

The Impact of Dams on Gulf of Maine Atlantic Sturgeon (Gayle Zydlewski et al.)

The current status of knowledge concerning use of hatcheries to assist in restoration and recovery efforts for Atlantic Sturgeon (James Henne and Jerre Mohler)

Gulf Sturgeon: Developing monitoring programs to track recovery progress (Donald Imm)

Integration of Acoustic Methodologies to Identify Atlantic Sturgeon Distribution and Habitat Preferences (Amy Comer et al.)

Identification of critical habitat and spawning migrations of Shortnose Sturgeon in the Altamaha River system, Georgia (Evan Ingram and Douglas Peterson)

Stock Origin of Atlantic Sturgeon Collected at Coastal Locales and Non-Natal Estuaries (Isaac Wirgin)

Habitat use of Shovelnose Sturgeon in the Lower Mississippi River (Patrick Kroboth and Dr. Hal Schramm)

Capture probability of Pallid Sturgeon in the lower Mississippi River (Dylan Hann et al.)

Looking ahead: Projecting future carrying capacities of Gulf Sturgeon in the Apalachicola and Suwannee Rivers (Zach Siders et al.)

Black Bass

A Meta-Analysis of Factors Potentially Influencing Contribution of Stocked Largemouth Bass to a Year-Class (Steve Lochmann et al.)

The Stocking of Advanced-Sized Fingerling Florida Largemouth Bass in Lake Talquin, FL...A Recipe for Enhancing a Trophy Bass Population (P.A. Strickland and C.L. Mesing)

Year class response of Largemouth Bass to drawdown management and Hydrilla coverage at Rodman Reservoir, FL. (Eric Nagid et al.)

Decreasing Capture Vulnerability of Florida Bass (*Micropterus floridanus*) with Exposure to Catch and Release Angling. (Nicholas Cole et al.)

History, status and management of Black Bass (*Micropterus*) species in South Africa (Olaf Weyl)

The Impacts of Catch-and-Release Angling on the Reproductive Success of Florida Bass, *Micropterus floridanus* (Hargrove et al.)

Evaluating the Efficiency of a Collection Device for Quantifying Densities of Early Life Stages of Smallmouth Bass in Streams (Jim Burroughs et al.)

Lessons Learned: Management of a Unique Trophy Largemouth Bass Fishery (Timothy Bonvechio)

Nest Survival Factors in Florida Bass *Micropterus floridanus* (Zachary Slagle et al.)

Impacts of Angling for Nesting Florida Bass, *Micropterus floridanus*, on Nest Success and Recruitment (Nick Trippel et al.)

Mechanisms for Variable Reproductive Effort in a Florida Bass Population (Stephanie Shaw and Micheal Allen)

Black Bass (*Micropterus*) community composition in two southeastern rivers upstream of impoundment (Andrew Taylor et al.)

Development and Evaluation of Florida's TrophyCatch Program (Andrew Dutterer)

Evaluating Evidence for Density-Dependent Growth Responses in Largemouth Bass (Matthew Catalano et al.)

Black Bass Population Dynamics in Lake Norman, North Carolina: A Decade After the Introduction of Spotted Bass (Lawrence Dorsey)

Nesting Success and Associated Habitat Characteristics of Shoal Bass in the Chipola River, Florida (Ted Alfermann et al.)

The Influence of Streamflow on the Recruitment of Rock Bass in the New River (Pearce Cooper et al.)

Effects of Aquatic Macrophytes on the Foraging Ability and Predation Risk of Juvenile Largemouth Bass (Kristopher Stahr and Daniel Shoup)

Freshwater Fish Management and Conservation

Bar Grading of Pellet-Reared Alligator Gar in Tanks and Raceways (Steve Lochmann et al.)

Monitoring Paddlefish Movements in the Grand River System, Oklahoma, using Ultrasonic Transmitters (Brad Johnston and Jason Schooley)

Catch and Release Mortality of Paddlefish on Grand Lake (Eric Brennan and Brent Gordon)

Snag angler use and harvest of paddlefish in Northeast Oklahoma (Jason Schooley)

Status of the Arkansas River Shiner, *Notropis girardi*, in Oklahoma (Buck Ray)

Population Status and Conservation Genetics of the Flame Chub, *Hemitremia flammea* (Kathlina Alford et al.)

Hickory Shad Angler Preference on the Roanoke River, North Carolina (Kevin Dockendorf)

Impacts of Gear Selectivity on Black Crappie Growth Rate Estimates and Harvest Management Decisions (Jason Dotson and Cheree Steward)

Population Dynamics in Fishes

Contribution of Stocked Sauger to the Broodstock Population in R.S. Kerr Reservoir on the Arkansas River Navigation System (Josh Johnston)

Reducing Menhaden? A Data Review Investigating Population Changes off of Georgia's Coast. (Chalisa Nestell)

Time Series Analysis of Indicator Species in the Cumberland River System (Cassandra Jansch and Brian Irwin)

Genetic population structure of Black drum, *Pogonias cromis*, in US waters (Jacqueline Leidig et al.)

Spatial and seasonal patterns of the nearshore fish assemblage from Florida to New York (Mark Stratton)

Molecular hypothesis of some Gulf of Mexico myctophids (Michael J. Andres and Robin M. Overstreet)

Distribution and Abundance of Larval Bluntnose Flyingfish (*Prognichthys occidentalis*) in the Northern Gulf of Mexico (Landes L. Randall and Jay R. Rooker)

Differential Growth within a Stock: A Case Study of Blueline Tilefish (Michael Schmidtke)

Angler Exploitation of Stocked Rainbow Trout in Three Kentucky Urban Waters (Dane Balsman)

The Stargazing Darter, *Percina uranidea* The Search for a Species in Decline (Justin Stroman et al.)

Movement and Habitat Use of Alligator Gar in Escambia River Florida (Matt Wegener et al.)

An episodic drought drives unpredictable and persistent changes to a floodplain prey subsidy in a subtropical mangrove river (Ross Boucek and Jennifer Rehage)

Gaining a Better Understanding of Population Demographics through Tagging

Evaluation of an Alternative Technique for Attaching External Transmitters to Blue Catfish: Methods for Improving Mortality Estimates (Kristopher A Bodine and B. Paul Fleming)

Fishing and Natural Mortality Rates of White Bass in Jordan Lake, NC (Kelsey Lincoln et al.)

Dissecting Mortality Components for Recreational Fisheries with High Rates of Released Fish (Janice Kerns et al.)

Estimating fishing and natural mortality rates for Albemarle Sound Striped Bass (Joseph Hightower and Julianne Harris)

Estimates of Fishing and Natural Mortality Rates of Spotted Seatrout from Tag-Return and Survey Data (Timothy A. Ellis et al.)

The Use of Ultrasonic Telemetry to Evaluate Red Snapper, *Lutjanus campechanus*, Fishing Mortality in the Northern Gulf of Mexico (L. Jay Williams and Stephen T. Szedlmayer)

Growth and Mortality of Hatchery-Reared Striped Bass Stocked into Non-Natal Systems (Jody L. Callihan et al.)

Using Genetic Markers for American Shad Stocking Assessments: A Better Tool for the Job (Ben Ricks et al.)

Evaluating the Potential of Spatiotemporal Closures for Protecting Migratory Mature Female Blue Crabs (E. G. Johnson and R. Aguilar)

Using PIT tags to estimate mummichog survival and abundance among anthropogenically altered salt marsh creeks in North Carolina (Paul Rudershausen et al.)

Investigation of Movement Patterns of Lake Sturgeon in the Upper Tennessee River (Mark Cantrell et al.)

Largemouth Bass and Common Snook in a Riverine System: Connection between Freshwater and Marine Habitats using Acoustic Telemetry (Jynessa Dutka-Gianelli et al.)

Movement, Site Fidelity, and Connectivity in a Catadromous Fish (Joy Young et al.)

Factors influencing movement and habitat use of Red Drum and Southern Flounder in Estuarine Seascapes (Michael A. Dance and Jay R. Rooker)

Presence and Habitat Preferences of Juvenile Coastal Sharks in the Hatteras Bight (Charles W. Bangley and Roger A. Rulifson)

Estimating Survival of Discarded Black Sea Bass using Tag Returns (Paul Rudershausen et al.)

Acoustic Telemetry Reveals Delayed Mortality Estimates and Post-Release Behavior Patterns in Red Snapper (Judd M. Curtis et al.)

Using Passive Integrated Transponder (PIT) Technology to Assess Species-Specific estuarine Fish Movement through Water Control Structures in Managed Salt Marshes (Matthew E. Kimball et al.)

Acoustic Telemetry of Gray Triggerfish on Artificial Reefs in the Northern Gulf of Mexico (Jenny Herbig and Stephen Szedlmayer)

Use of Acoustic Telemetry to Determine Seasonal Movements of Walleye in a Hydropower Reservoir (Dustin M. Smith et al.)

Fish Physiology and Ecosystems

Behavior and temperature tolerance of invasive Rio Grande cichlids (*Herichthys cyanoguttatus*) and native Bluegill (*Lepomis macrochirus*) in a simulated canal mesocosm during the winter months in New Orleans, Louisiana (Tom Lorenz et al.)

Food Habits of Blue Catfish (*Ictalurus furcatus*) introduced into Lake Oconee, Georgia (Geoffrey Mitchell and Cecil Jennings)

Stocking Efficacy and Catch and Release Mortality Rate of Sauger in Old Hickory Lake, Tennessee (Grant Scholten et al.)

Hypo-Osmotic Tolerance of Juvenile Gulf Killifish (Shane Ramee and Peter Allen)

Gene Expression Accurately Reflects Fertility in Striped Bass (Robert Chapman et al.)

Initial infection of Young of Year (Glass Eels) American Eel (*Anguilla rostrata*) by the invasive swimbladder parasite, *Anguillicoloides crassus* (Jennifer L Hein et al.)

Comparison of fish catch among variably altered tidal creeks in a coastal landscape (Marissa Dueker et al.)

Lunar Influences on Recruitment Phenology of Caribbean Amphidromous Fishes (Augustin Engman et al.)

Does Swimming Performance Explain Differences in the Salinity Preference Between Two Killifish Species? (Kelsey Yetsko and Gorka Sancho)

Ontogenetic diet shifts in early life history stage estuarine fishes (Family Sciaenidae) from the Chesapeake Bay (Al Deary and EJ Hilton)

Characterizing the reproductive biology of the Finetooth Shark, *Carcharhinus isodon*, in the Northwest Atlantic (Amanda Brown et al.)

Hermaphroditism and other aspects of reproduction in the endangered Smalltooth Sawfish (Jim Gelsleichter et al.)

Identifying Potential Nursery Habitat for the Scalloped Hammerhead (*Sphyrna lewini*) (Mike McCallister)

Using Passive Acoustics to Better Understand Reproduction of Spotted Seatrout and Red Drum (Eric Montie et al.)

Feeding Ecology of Invasive Lionfish in Biscayne National Park, Florida, using Morphological Stomach Content Analysis supplemented with DNA Barcoding (Sarah M. Doty et al.)

Dams and Reservoirs: Fishery Challenges

Southeast Aquatic Connectivity Assessment Project (John Kauffman)

Reconnecting American Eels to the Upper Roanoke Basin (Fritz Rohde)

Characteristics of Two Self-Sustaining Populations of Paddlefish in Northeast Oklahoma (Ashley Nealis and Jim Long)

The Use of Fish Attractors in Reservoirs: A survey of North American Resource Management Agencies (Kurt Kuklinski et al.)

Mill and Beaver Dams Alter Freshwater Mussel Habitat, Growth, and Survival in North Carolina Piedmont Streams (Rachael Hoch et al.)

A Photographic Counter for Monitoring American Eels at an Eel Ladder (Stuart Welsh and Joni Aldinger)

Continuous Telemetry of Fishes Near a Heated Effluent from a Power Plant on the Cumberland River, Tennessee (Justin Spaulding et al.)

Comparison of methods and bait-type to minimize by-catch when sampling for Channel Catfish in reservoirs (Evan Cartabiano et al.)

Evaluating Reservoir Fish Assemblages: How much sampling is enough? (Donald Dennerline and Cecil Jennings)

Impacts of Basin Fragmentation on Fish Community Restoration (Trent Jett et al.)

Life History Plasticity and Effects of Introduced Icefish on Indigenous Zooplanktivorous Fish (Songguang Xie)

The Importance of the Benthos in the Food Web of Lake Marion, South Carolina (Barbara Taylor and Jim Bulak)

Fish Assemblage Response to Dam Removal in Twelvemile Creek, Pickens County, SC (Cathy Marion et al.)

Best Student Presentation Competition

Similarities and Differences in ¹³C and ¹⁵N Stable Isotope Ratios in Two Non-Lethal Tissue Types from Shovelnose Sturgeon (Robert DeVries and Dr. Harold Schramm Jr.)

Developing a Novel Genetic Tool for Detection of Red Drum (*Sciaenops ocellatus*) Eggs (Rebecca Mortensen et al.)

Genetic Analysis of Demographic Dynamics of Paddlefish in Grand Lake O' the Cherokees (Michael Schwemm et al.)

Assessing Effects of Supplemental Pellet Feeding and Threadfin Shad Addition to Recreational Fishing Ponds using Stable Isotope Analysis (Keith Henderson et al.)

Accounting for Imperfect Detection and Spatiotemporal Autocorrelation in a BACI Design to Monitor the Federally Endangered Roanoke Logperch (Gregory Anderson et al.)

Using Feeding Frequency to Reduce Cannibalism and Aggression in Larval Hatchery-Reared Spotted Seatrout (*Cynoscion nebulosus*) (Christopher B. Manley et al.)

Tournament Displacement and Emigration Rates of Largemouth Bass *Micropterus salmoides* in Albemarle Sound, NC (Daniel Brown et al.)

Identification of Major Environmental Gradients and Interspecific Correlations of Rare, Endemic Crayfish (*Orconectes spp.*) in Central Louisiana Streams (William Budnick et al.)

Looking Ahead: Projecting Future Carrying Capacities of Gulf Sturgeon in the Apalachicola and Suwannee Rivers (Zach Siders et al.)

Spatial Modeling of Reference Conditions for Fish IBI Development (Alison Anderson and Todd Petty)

Age and Growth in Fishes

Review of Techniques for Estimating the Daily Age of Young-of-the-Year Catfishes (Peter Sakaris)

A Comparison of Age and Growth, and Size Structure of Blue Catfish in Oklahoma Between Tailwaters/Rivers and Reservoirs (Chas Patterson)

A Comparison of Ageing Methods in Red Snapper *Lutjanus campechanus* (Danielle Horn and Stephen Szedlmayer)

Validation of Daily Growth Increments of Alligator Gar *Atractosteus spatula* (Richard Snow)

Age and Growth of the Invasive Asian Swamp Eel from South Florida Waters (Zachery Mielko and Dr. Peter Sakaris)

Movement of Striped Bass in North Carolina Waters Inferred from Otolith Microchemistry (Dan Zurlo et al.)

Validation of Daily Ring Deposition in the Otoliths of Age-0 Alligator Gar (Dr. Peter Sakaris et al.)

Use of Bomb Radiocarbon in Age Validation of North Atlantic Wreckfish (*Polyprion americanus*) and Re-estimation of Life History Parameters (Adam Lytton)

Quantification of Life History Parameters in South Carolina Spot (*Leiostomus xanthurus*) (Jessica Johnson et al.)

Pollution and Toxicology

Extent and Temporal Changes of Shoreline Oiling from the Deepwater Horizon Oil Spill, Gulf of Mexico, USA (Dr. Jacqueline Michel and Dr. Scott Zengel)

Effects of Antimycin on the Aquatic Macroinvertebrate Community within a Great Smoky Mountains Watershed (Dr. Keith Gibbs et al.)

Mississippi Coastal Fish Assemblage Structure and Dynamics Before and After the Deepwater Horizon Accident (Jake Schaefer et al.)

An Integrative Assessment of Environmental Estrogens in the Upper Conasauga River, Georgia. (Whitney Jacobs et al.)

An Angler Attitude Survey of a Reclaimed Strip Mine WMA in Western Kentucky (Jeremy Shiflet)

The Fisheries Blog: Communicating Fisheries Science to an Internet Audience (Patrick Cooney et al.)

Addressing Invasive Species Spread through Commercial Bait Sales in Kansas: A Case History (Jason Goeckler et al.)

Student, Faculty and Employer Perceptions of Graduates' Preparation to Succeed as Fisheries Professionals (Steve McMullin and Vic DiCenza)

Regulatory Review of CWA 316(b) Phase II Regulations (Mary Hoganson and Fred Heitman)

Impact of EPA's New 316(b) Regulations on Aquatic Resources and Fishery Professionals (Fred Heitman and Mary Hoganson)

Reef Fish Symposium

Citizen Science as an Integral Component of Reef Fish Research and Monitoring Efforts along Florida's Atlantic Coast (Theodore Switzer et al.)

Spatial Structure and Composition of Reef Fish Along Florida's Atlantic Coast (Cameron Guenther et al.)

Comparison of Trap and Video Gears to Index Reef Fish Presence (Nate Bacheler et al.)

Identification of Fixed Stations for the Southeast Reef Fish Survey (Joseph Ballenger et al.)

Distribution, Demographics, and Population Trends of Gag in the Northeast Gulf of Mexico, 2004-2012, as Revealed by a Fishery-Independent Trap and Video Survey (Doug DeVries et al.)

Nearshore Reef Fish Assemblages on the West Florida Shelf Characterized by Two Fish Trap Designs (Sean Keenan et al.)

Fine-scale Movements and Home Ranges of Red Snapper *Lutjanus campechanus* Around Artificial Reefs in the Northern Gulf of Mexico (Stephen Szedlmayer and Maria Piraino)

Defining Within-Trap Species Interactions Among Reef Fish in the Southeastern U.S. Atlantic Continental Shelf using Underwater Video Based on a Fishery-Independent Trap Survey (Dawn Glasgow et al.)

Assessing the Habitat Value to Reef Fish Communities of Intertidal Eastern Oyster (*Crassostrea virginica*) Reefs Constructed Using Abandoned and Donated Crab Traps in South Carolina (Benjamin Stone and Peter Kingsley-Smith)

Evolving from Deterministic to Probabilistic Fishing Level Recommendations (Dr. Michael Errigo)

Life History Trends of Grey Triggerfish, *Balistes caprisкус*, in the U.S. South Atlantic (Amanda Kelly)

Age Truncation and Reproductive Resilience of Red Snapper (*Lutjanus campechanus*) Along the East Coast of Florida (Susan Lowerre-Barbieri et al.)

Disparate Knowledge of Red Snapper Ecology in Gulf of Mexico versus South Atlantic Waters (where are the SA juveniles?) (Todd Kellison et al.)

Spatial and Seasonal Differences in Spawning Fraction of Gulf of Mexico Red Snapper and Incorporation into Size- and Age- Based Models of Indeterminate Fecundity (Gary Fitzhugh et al.)

Improving the Resolution and Accuracy of Red Snapper Diets with DNA Barcoding (Rachel Brewton and S. Szedlmayer)

Status of the Red Porgy (*Pagrus pagrus*) Population after One Decade of Intensive Fisheries Management – The Rebound is Still Slow (David Wyanski et al.)

Goliath Grouper Reproduction in the Southeastern USA: Gonochoristic or Hermaphroditic? (Debra Murie et al.)

Decadal Fluctuations in Life History Parameters of Scamp Collected by Commercial Hand-Line Vessels from the West Coast of Florida (Linda Lombardi et al.)

Marine Fisheries Management and Ecology

Assessing the Effects of Variable Recruitment on the Growth Dynamics of Young-of-the-Year Summer Flounder in Chesapeake Bay (Lauren Nys et al.)

Can a Novel Mesh Shape Reduce Bycatch in North Carolina Large Mesh Gillnets? (Paul Rudershausen and Jeff Buckel)

Influence of Oceanographic Conditions on the Vertical Habitat of Four Tuna Species in the Central Pacific Ocean (Alison Deary et al.)

Impacts of Extreme Salinity and Surface Temperature Events on Population Dynamics of Black Drum, *Pogonias cromis*, in a Hypersaline Lagoon (Zachary Olsen)

Monitoring of Reef Fish Communities in the Edisto Marine Protected Area off South Carolina (USA) (Tracey Smart et al.)

Trophic Dynamics of Large Pelagic Fish Predators in the U.S. South Atlantic (Stephen Poland et al.)

Reproductive Biology of the Bonnethead Shark (*Sphyrna tiburo*) from the Southeastern U.S. Atlantic Coast (Melissa Gonzalez De Acevedo et al.)

Winter Flounder Habitat Use in New York/New Jersey Harbor and the Influence of Spring Temperatures on Subsequent Year Class Strength (Dara Wilber et al.)

Population Size Structure, Age Structure, and Growth of the Invasive Lionfish (*Pterois volitans*) in Northeast Florida (MaryKate Swenarton and Eric Johnson)

Potential Impacts of a Non-Native Piscivore, the Pike Killifish, on Juvenile Common Snook (Geoffrey Smith and Debra Murie)

Establishing Field-based Evidence for the Effects of Hypoxia on the Reproductive Capacity of Chesapeake Bay Fishes (Troy Tuckey and Mary Fabrizio)

Reproduction of Pelagic Fishes in the Northern Gulf of Mexico (Nancy Brown-Peterson)

Fecundity Pattern of Gray Triggerfish, *Balistes capricus* (Erik Lang et al.)

Design and Maintenance Considerations for an Offshore Acoustic Array Deployed off Cape Hatteras, North Carolina (Jennifer Cudney et al.)

Assessing Cobia (*Rachycentron canadum*) Stock Boundaries using Genetic and Tag-Recapture Data (Matt Perkinson et al.)

Trophic Dynamics of Spotted Seatrout in a River-dominated Coastal Estuary (Travis Richards)

Stream and River Fishes: Assemblages and Movement

Longitudinal Patterns in Life History Traits of a Livebearing Fish in Streams of the Honduran Interior Highlands (Brandon Peoples et al.)

A Hierarchical Community Occurrence Model for North Carolina Stream Fish (Steve Midway et al.)

Evaluating Changes in Stream Fish Species Richness over a 50-year Time Period within a Landscape Context (Steve Midway et al.)

Reintroduction of Turquoise Darters (*Etheostoma inscriptum*) to Six Mile Creek, SC (Jeffrey Foltz)

Status of the Leopard Darter (*Percina pantherina*) in Southeast Oklahoma Streams (Chris Tackett)

Fish Species Incidence Patterns in Naturally Fragmented Desert Streams: The Importance of Aquatic Refugia and Rescue Effects (Seiji Miyazono and Christopher Taylor)

Developing a Monitoring Protocol for the Pygmy Sculpin (*Cottus paulus*) (Chris Matechik)

Ecological Benefits of Compensatory Stream Mitigation in Southern West Virginia (Eric Miller and Dr. Todd Petty)

Hydrologic Filtering of Fish Life History Strategies Across the US: Implications of Stream Flow Alteration on Fish Communities (Ryan McManamay and Emmanuel Frimpong)

High Definition Stream Surveys: A New Solution to Old Problems (Dr. James Parham and Brett Connell)

Incorporating a Trait-based Approach into Effective Stream-fish Management and Monitoring (Robert Mollenhauer and Shannon Brewer)

Analysis of a Long-Term Brook Trout Dataset: Comparisons Using 25 Appalachian Headwater Streams (Ross G. Andrew and Kyle J. Hartman)

Identifying Connectivity Differences Between Habitats of a Brook Trout Metapopulation Using Stable Isotope Analysis (Brock M. Huntsman et al.)

