# FY 2021 Atlantic Coastal Cooperative Statistics Program (ACCSP) Funding Request Proposal – June 12, 2020 Revised Proposal – August 11, 2020

<u>Applicant</u> :	outh Carolina Department of Natural Resources (SCDNR) Iarine Resources Division, Charleston, SC										
<u>Principal</u> <u>Investigator</u> :	Amy Dukes, SCDNR Fisheries Statistics Section Leader										
<u>Project Title</u> :	<ul> <li>ACCSP Data Reporting from South Carolina's Commercial Fisheries</li> <li>1) 100 % Trip-Level Catch and Effort Data Collection (70%)</li> <li>2) Biological Sampling for Hard Part/Aging of Offshore Species (30%)</li> </ul>										
<u>Project Type</u> : (No change in scope	Maintenance Project: One-year of work, continued emphasis on Electronic Data Reporting)										
<u>Requested Award</u> <u>Amount</u> :	\$56,923 (Excludes 5% NOAA Administrative Fee)										
<u>Requested Award</u> <u>Period</u> :	One-year, September 1, 2021 thru August 31, 2022, or after receipt of funds										
<u>Objective</u> :	The objective of this study is to successfully execute two ACCSP Primary Program Priorities with South Carolina Commercial Fisheries: Catch/Effort Data Collection (70%) Biological Sampling (30%)										

**Currently, SCDNR is actively engaged in collecting consistent ACCSP standardized trip-level data for 100% of all marine and diadromous commercial fisheries in South Carolina.** The proposed funding would allow SCDNR to maintain compliance with ACCSP data requirements and standards through the continuation of commercial catch and effort data collection, data entry, database management, and administrative support. It would also enable the collection of biological samples, including otoliths and length frequencies, from species in the Snapper/Grouper, Pelagic, and Coastal Migratory complexes landed commercially in South Carolina. These data serve as an integral aspect of the development, implementation, assessment, and maintenance of fisheries management plans for Atlantic Coastal fish stocks.

#### Need:

It is crucial to assess comprehensive catch/effort data and to collect biological samples in order to manage fisheries effectively and efficiently. Fishery dependent data, provided by commercial fishermen, has a direct impact on fisheries management and the sustainability of the industry. The information gathered is used to evaluate the need for potential changes to fisheries regulations and to monitor commercial fishing quotas across the southeast. These data are used to support stock assessment analyses for state and federally managed species and are responsible for the assessment of finfish stocks to identify fisheries trends and assess management priorities while meeting regulatory requirements under the Magnuson-Stevens Act. The Atlantic States Marine Fisheries Commission also needs reliable and detailed data to evaluate the effectiveness of Fisheries Management Plans.

Catch and Effort - Since 1976, South Carolina has required mandatory reporting (regulatory authority, Title 50, Section 50-5-380, SC Code of Laws) of monthly totals of commercial landings from licensed wholesale seafood dealers. Since 2003, these data have been provided on a trip-level basis. Currently, 100% of all commercial fisheries products landed in South Carolina are required to be reported through ACCSP compliant trip-level logbooks/electronic applications. These data are collected through a one ticket system, denoting that all fishing effort (provided by the harvester at the time of sale/purchase), pounds of catch and product values (provided by the purchaser) are obtained and reported by the licensed wholesale seafood dealer and/or bait dealers on logbook forms provided by the Agency. These logbooks were designed to be fishery/species-specific to allow detailed and complete catch per unit effort data to be recorded for each fishery type. The logbooks/electronic applications collect the following data fields: product volume (i.e. pounds, bushels), product price, disposition (i.e. gutted, whole) and market category (i.e. small, large), gear type (i.e. trawl, hook and line), area and sub-area fished (i.e. river system, port), commercial fisherman information (name and license), vessel name and registration numbers, number of crew, time fished (gear soak time), and specific information on the amount of gear effort (i.e. number of nets/lines/traps, number of hooks per line, number of sets/hauls, line length). The logbooks are bound and are carbon copied, as they serve as business receipts for the harvesters, and dealers can use them as a bill of laden. Examples of three commercial triplogbooks (Daily Crab, Offshore Finfish and Bait Dealer) are provided below in Appendix 1, 2 and 3. Currently there are 1,571 licensed commercial saltwater fishermen, 55 bait dealers, and 271 wholesale seafood dealers in South Carolina (of which 243 are reporting via paper logbook) and 28 federal dealers. Commercial fishermen, wholesale seafood dealers, and/or bait dealers who fail to make accurate, timely and complete reports are subject to Law Enforcement actions, including fines and possible suspension of licenses.

Electronic data collection has continued to be a major focus in South Carolina, as National Marine Fisheries Service (NMFS) has collected electronic data from federally permitted seafood dealers since 2011 (Southeast Regional Office, SERO) and 2013 (Highly Migratory Species, HMS) in order to track species landed for quota monitoring. The initial outreach efforts by SCDNR have been restricted solely to federal dealers. Although the concept of electronic data reporting was not well received by the majority of dealers, the 24 federal dealers that are currently using the provided data platforms have successfully transitioned to this reporting method. Staff are still actively engaged in outreach and education for several new/retuning dealers. A dedicated staff member was hired in October 2015 to focus on electronic data reporting, which was initially funded through ACCSP allocations in FY2014. The Commercial Outreach Coordinator's goal has been to provide outreach, education, and support to federal dealers while initiating efforts to have state-only dealers utilize the electronic infrastructure as well. There are very few state-only dealers that have shown interest or pilot tested the electronic platform. The Coordinator continues to excel in this position with respect to best practices for commercial data collections, building relationships with existing federal dealers and partner agency staff, and providing technical support to dealers and federal partners in regards (??) to data requests/corrections. Additionally, work has begun with ACCSP staff to revise the existing Standard Atlantic Fisheries Information System (SAFIS) platform, which was developed in 2010, to ensure that all of the data parameters are updated. This process is very slow to progress, given the high demand on ACCSP staff with no increase in infrastructure. The final step, which is under developmental construction now, is to provide functional outreach tools on the Agency's commercial data information website, and will include video tutorials, a frequently asked questions list, etc. for SAFIS users to utilize. It is the Agency's intent to create a seamless transition to electronic data reporting for all dealers, while ensuring compliance and data integrity. Although electronic data collections are a priority, at this time, staff are not prepared to request that state legislation change regulations to require mandatory electronic data. As federal agencies continue to increase electronic monitoring programs for many fishing sectors, their momentum may serve as a catalyst to increase state-only fishing sectors to report electronically as well. Data quality remains the critical foundation for fisheries data collections, and provided that electronic reporting has not been well received by all, staff feel that at this time, requiring electronic data reporting would not result in maintaining the highest integrity? of data possible.

The requested funding for this project would allow SCDNR to continue to employ Fisheries Statistics Section (FSS) staff, including a Commercial Outreach Coordinator, Data Manager, Compliance Coordinator and a data entry position, as well as support for printing and postage costs associated with these data collections.

**Biological Sampling** - SCDNR currently conducts dock-side sampling efforts on commercially landed finfish, collecting biological samples including, but not limited to, otoliths and length frequencies. ACCSP-compliant biological sampling data from the Snapper/Grouper complex and Coastal Migratory and Pelagic species are collected through the Southeast Fisheries Science Center (SEFSC) Trip Interview Program (TIP). Through TIP, port agents often collect additional biological data including tissue (DNA), stomach and gonad samples from species over and above the sampling targets, as these species are of interest to SCDNR and are related to project goals under the Agency's overall mission to manage and protect South Carolina fisheries. These additional samples will be analyzed in-house under the direction of SCDNR Marine Resources Monitoring, Assessment, and Prediction (MARMAP) program staff, and will increase the amount of available data for future stock assessments. These additional samples will not utilize ACCSP requested funds except to cover the port agents' salaries and travel expenses, since these additional samples are taken cohesively.

The requested funding for this project would allow SCDNR to maintain these consistent biological sampling efforts by continuing to employ two port agents with the FSS.

#### **Results and Benefits:**

FSS staff and port agents facilitate the partnership between the commercial fishing sector and state/federal management entities and help to maintain positive working relationships between all parties. SCDNR will work to maintain open and effective lines of communication with all commercial fishermen, bait harvesters, and wholesale dealers to ensure that everyone understands the importance of timely, accurate and complete data submissions associated with the management of marine fisheries.

Catch and Effort - The trip-level data collected will provide comprehensive and comparable landings data, which will be used to evaluate the current effectiveness of fisheries management and to develop and set priorities for new Fisheries Management Plans in conjunction with state and federal partners and councils.

Biological Sampling - This level of biological sampling is vital for the evaluation of finfish stocks, and the resulting comprehensive and comparable dataset will be essential to set priorities for and evaluate the effectiveness of current and future fisheries regulations, quotas and management plans.

#### **Data Delivery Plan:**

All available South Carolina trip-level catch and effort data will be converted to ACCSP codes and follow all established standards. Data will be transmitted to ACCSP at minimum quarterly, followed by complete calendar year data being transmitted on or prior to typical March deadlines established by ACCSP. Additionally, when unique data needs are requested (i.e. related to quota monitoring), SCDNR staff will work with SERO, HMS, and ACCSP staff to provide the most accurate and complete data in order to fulfill the request.

Electronic data collections of offshore fisheries products from federally permitted dealers through SAFIS and Bluefin data applications continue to be a primary focus for the Agency. Electronic data allows for better efficiency with respect to quota monitoring efforts. SCDNR staff continue to work with federally permitted dealers to insure they understand and can utilize the available electronic applications to enter and submit data in order to meet compliance deadlines. This outreach effort has resulted in improved timeliness and completeness of this data, as well as the state managed fisheries data. QA/QC checks of the offshore federal data, within the quarterly submission timeframe, will occur in order to ensure that the provided data is accurate and complete. The SAFIS data will be loaded directly into the data warehouse on a similar quarterly basis.

## Approach:

Catch and Effort Tasks

- 1. Collection and entry of all commercial fisheries trip-level catch and effort data through a mandatory trip ticket reporting system in accordance with ACCSP protocols and standards.
  - SCDNR will continue to employ two Data Specialists, one Data Administrative Assistant, one Data Manager, one Commercial Outreach Coordinator, and one Section Manager Leader responsible for all commercial catch and effort compliance, data entry, editing, and submission to ACCSP.
  - Individual trip tickets will be required from dealers and tracked for compliance for all commercial fisheries products landed in South Carolina.
  - Non-compliance offenders will be reported to SCDNR Law Enforcement and are subject to action. Statistics staff will assist with prosecution efforts by providing evidence in court.
  - Trip tickets will be reviewed for completeness, edited as necessary, entered, and verified.
  - Trip ticket logbooks will periodically undergo a review process in order to identify areas for data collection improvements, and to ensure that dealers understand all data fields.
  - Efforts to QA/QC licensing data will continue as necessary to ensure the cohesion and integrity of FSS databases.
  - Data will be converted to ACCSP codes and transmitted to ACCSP.
- 2. Editing and verifying commercial fisheries trip-level catch and effort data through electronic data reporting.
  - Staff will continue to focus efforts on compliance, outreach and education to federal dealers and continue to urge state dealers to utilize the ACCSP's SAFIS or the Bluefin platforms to report catch and effort data electronically.
  - FSS staff will examine inconsistencies and as necessary edit catch and effort data reported between mandatory trip tickets and electronic data submissions.

**Biological Sampling Tasks** 

- 1. Collection of biological samples from commercially landed species within the Snapper/Grouper, Coastal Migratory and Pelagic fisheries, in compliance with ACCSP Biological Sampling standards.
  - SCDNR will continue to employ one full-time and one part-time port agent to collect age structure (otoliths) and length frequencies from targeted species.
  - Port agents will focus their efforts on intercepting commercial vessel trips at specific wholesale dealers/docks where these species are typically landed.
  - As the catch is unloaded, specimens will be randomly selected (in order to avoid sampling bias), identified to species, length recorded, and otoliths collected. Otoliths will be extracted through the gill plate in a manner that the market condition of the fish is not compromised.
  - Species selection does incorporate the ACCSP Biological Review Panel species list and/or Southeast Fisheries Science Center (SEFSC) staff recommendations. Port agents do have the ability to collect additional biological samples for species of interest to SCDNR.
  - Port agents help to ensure that wholesale seafood dealers are completing the mandatory trip tickets accurately and in a timely manner.
- 2. Biological sampling data will be edited, entered, and verified in the TIP online database and submitted on a monthly basis.
  - As part of the TIP protocol, in-person interviews will be conducted at the time of biological sampling to gather necessary catch and effort information from vessel captains.

- Catch and effort data will be compared to and verified with the trip ticket logbook data. All data collected will be entered into the TIP online database following established protocols including QA/QC practices.
- Age structure samples (otoliths) will be prepared, packed, and shipped to be analyzed at the SEFSC Beaufort Marine Laboratory for aging and data processing following TIP protocols.
- Once processed, these age and length samples will be used in stock assessments, primarily for age at length models, and/or used to proportion unclassified finfish grouping to individual species (triggerfishes).

#### **Geographic Location:**

The project will be headquartered at the SCDNR Marine Resources Division in Charleston, South Carolina. Project personnel are responsible for all data collections for marine commercial fisheries from multiple ports along the South Carolina coast.

### **Project Accomplishments Goals and Measurement:**

The success of this project will be measured by the following metrics:

Catch and Effort - SCDNR will continue to meet a data dissemination goal, which will deliver South Carolina landings data to ACCSP no more than 90 days after the end of each quarter (every three months). Biological Sampling - SCDNR will continue to achieve set TIP sampling targets yearly, with data entry into the TIP online database and delivery of collected samples monthly.

• Quality-assured quality-controlled data transmissions to ACCSP, submitted on time and in approved formats.

• Catch/effort and biological sample data collections program maintained through internal databases with electronic data collections from the SAFIS/Bluefin programs.

• Provide support to SC licensed wholesale seafood dealers, with focused efforts to improve data collection quality, timeliness, and accuracy.

• Commercial landings from state and federal dealers will be effectively used to monitor quota species, track data compliance, verify licensed fishermen and their fishing activities, and support best management practices.

Program Priorities/ Project Component	Goal	Measurement					
Catch and Effort	Collection of 100% of all SC	Data entered, verified, and					
	commercial fishery products landed	delivered to the ACCSP no more					
	at trip-level in accordance with	than 90 days after the end of					
	ACCSP standards.	each quarter.					
Catch and Effort	Continuation of Electronic Data	Dealers reporting on a weekly					
	Reporting by Federally Permitted	basis, completely and accurately.					
	Dealers and advocate the initiation	NMFS SERO/HMS to enforce					
	for state-only dealers.	and regulate.					
<b>Biological Sampling</b>	Collection of all species targeted and	Count of samples collected by					
	identified by the ACCSP Biological	representing number of species.					
	Committee and TIP as data deficient.						
<b>Biological Sampling</b>	Validate, enter, and edit all biological	Timeliness and accuracy of					
	data into TIP on line and provide	data/samples provided.					
	samples to Beaufort Lab.						

### **Funding Transition:**

SCDNR continues to have discussions with state representatives and legislators about securing reoccurring state appropriated funds to accomplish the ACCSP Catch/Effort and Biological Sampling priorities, however, at this time there is no direct long-term state funding available. Several funding proposals have been submitted to the SC Legislature for consideration; unfortunately, the requested funds have not been approved. Efforts will continue to be made to attempt to procure state funding, and it is the goal of the Agency to secure state funds in the near future.

### **Milestone Schedule:**

Catch and Effort	Α	S	0	Ν	D	J	F	Μ	Α	Μ	J	J	Α	S
Task 1														
Collection of trip-level commercial catch data	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ		
and related effort data in accordance with														
ACCSP standards.														
Task 2	x	x	x	x	x	X	x	x	x	x	x	x	x	
Data entry, editing and verification of	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	
fisheries trip-level reporting data.														
Task 3														
Conversion of data to ACCSP codes	Х	Х	Χ	Х	Χ	Χ	Χ	Х	Χ	Х	Х	Х	Х	
and data transmission to ACCSP in a														
timely manner.														
Task 4											Χ	Χ	Х	Х
Report writing period.														
Biological Sampling	Α	S	0	Ν	D	J	F	Μ	Α	Μ	J	J	Α	S
Task 1														
Collection and preparation of data on length	x	x	X	x	X	X	X	x	x	x	x	x		
frequencies and hard-part samples for	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ		
commercially landed Snapper/Grouper,														
Pelagic, and Coastal Migratory species.														
Task 2														
Preparation and shipment of hard-part	X	x	X	x	X	X	X	x	x	x	x	x		
samples to Beaufort Marine Lab in	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ		
North Carolina for processing and														
aging.														
Task 3	X	x	X	x	x	X	x	x	x	X	x	x	x	
Data editing (coding), verification and	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	
entry into the TIP online database.														
Task 4											Χ	Χ	Χ	Χ
Report writing period.														

### **Cost Summary:**

# 1. BUDGET FOR PROPOSAL PLANNING - FY2021

		)perational Request	SCDNR Contril				
Development Free engages. All engages to ff and more bines	Monthly	Salary	Monthly Sala				
Personnel Expenses: All current staff, no new hires.	Time	Funds	Time	Funds			
Statistics Leader (Catch & Effort & Biological - AWD)	0	\$0	9	\$41,404			
Database Manager (Catch & Effort - EH)	1	\$4,609	6	\$27,660			
Biologist I (Commercial Outreach - JD)	2	\$6,564	4	\$13,128			
Data Administrator (Catch & Effort - VG)	2	\$6,862	5	\$17,155			
Biologist I (Biological - DP)	2	\$6,436	8	\$25,744			
Biologist I (Biological - EM)	2	\$6,436	8	\$25,744			
Total Salary Costs	\$30	),907	\$150	,835			
Fringe Costs (40%)		2,363	\$60,				
Indirect Costs (30.47%)	\$9	,417	\$45,	959			
Total Personnel Expenses	\$52	2,687	\$257	,128			
Miscellaneous Expenses							
Printing & binding (forms, surveys, tickets) SCDNR currently has 9 logbook forms necessary to collect 100% mandatory trip-level data. Printing of the logbooks is based on size and quantity ordered.	\$1	,000	\$2,500				
Postage (incoming, business reply mail) The yearly fee to hold a USPS Business Reply account is \$965.00 Providing free return mail is an incentive for accurate and timely reporting from dealers and has proven to be very successful.	\$4	412	\$1,500				
Postage (outgoing, forms, notices) This amount reflects the average amount spent to send mail to dealers. Monthly reminder letters are sent to delinquent dealers, and upon request, user manuals, logbooks, and additional forms are sent to dealers.	\$:	500	\$1,5	500			
Office and Sampling Supplies General supplies including envelopes (letter and large mailers), pens, printing paper, three-ring binders (for user manuals), and file organization materials, clipboards, fin-clip vials, filet knives.	\$9	912	\$3,000				
Travel Port Agents will travel to dealers to intercept commercial fishing vessels to collect Biological samples. Current rates for SCDNR vehicles are 50.5 cents per mile. Round trip daily trips can average as high 200 miles.	\$1	,412	7,0	00			
Total Miscellaneous Expenses	\$4	,236	\$15,	500			
Total Costs	\$50	5,923	\$272	,628			
Total Project Cost		\$329	,551				
Percentage Contribution	1'	7%	83	%			

# 2. <u>BUDGET – FY20 – Approved by ACCSP</u>

		)perational Request	SCDNR Contril					
Personnel Expenses: All current staff, no new hires.	Monthly Time	Salary Funds	Monthly Time	Salary Funds				
Statistics Leader (Catch & Effort & Biological - AWD)	0	\$0	9	\$41,404				
Database Manager (Catch & Effort - EH)	2.5	\$11,188	4	\$17,900				
Biologist I (Commercial Outreach - JD)								
Data Administrator (Catch & Effort - VG)	3	\$9,993	4	\$9,994				
Biologist I (Biological - DP)	6	\$18,744	4	\$12,498				
Biologist I (Biological - EM)	6	\$18,744	4	\$12,498				
Total Salary Costs	\$68	3,227	\$103	,852				
Fringe Costs (38%)	\$25	5,926	\$39,	,464				
Indirect Costs (16.47%)	\$11	,237	\$17,	,104				
Total Personnel Expenses	\$160	,420						
Miscellaneous Expenses								
Printing & binding (forms, surveys, tickets) SCDNR currently has 9 logbook forms necessary to collect 100% mandatory trip-level data. Printing of the logbooks is based on size and quantity ordered. The average price per book last FY was \$9.12. Typical usage of these logbooks varies from year to year. During the last fiscal year, just over 300 logbooks were distributed to dealers, with a replacement cost of \$2,736.	\$2,	,550	\$1,000					
Postage (incoming, business reply mail) The yearly fee to hold a USPS Business Reply account is \$965.00. SCDNR paid an additional \$1,598 in returned mail during the 2018 FY. Providing free return mail is an incentive for accurate and timely reporting from dealers and has proven to be very successful.	\$5	500	\$1,5	500				
Postage (outgoing, forms, notices) This amount reflects the average amount spent to send mail to dealers. Monthly reminder letters are sent to delinquent dealers, and upon request, user manuals, logbooks, and additional forms are sent to dealers.	\$5	500	\$1,:	500				
Office and Sampling Supplies General supplies including envelopes (letter and large mailers), pens, printing paper, three-ring binders (for user manuals), and file organization materials, clipboards, fin-clip vials, filet knives.	\$2,	,700	\$1,0	000				
Travel Port Agents will travel to dealers to intercept commercial fishing vessels and collect biological samples. Current rates for SCDNR vehicles are 50.5 cents per mile. Daily round-trips can average as high 200 miles.	\$2,	207	\$6,000					
Total Miscellaneous Expenses	\$8,	,457	\$11,	,000				
Total Costs	\$11.	3,846	\$171	,420				
Total Project Cost		\$285,	,266					
Percentage Contribution	4(	)%	60	%				

#### **BUDGET NARAVTIVE** (Requested Funding Period, FY21)

Project:	ACCSP Data Reporting from South Carolina's Commercial Fisheries
	1) 100 % Trip-Level Catch and Effort Data Collection
	2) Biological Sampling for Hard Part/Aging of Offshore Species
FFO#:	NOAA-NMFS-SE-2020- TBD
Project Period:	1 September 2021 – 31 August 2022
1 Year Funding:	\$56,923
Prepared by	Amy Dukes (PI)

**Personnel (Salaries) \$30,907:** Five SCDNR employees' salary time will be utilized with these funds. The five current employees are: Database Manager for 1month (\$4,609); Commercial Outreach Coordinator for 2 months (\$6,564); Wildlife Biologist I (Port Agent) for 2 months (\$6,436); Wildlife Biologist I (Port Agent) for 2 months (\$6,436); and a Data Compliance Administrator for 2 months (\$6,862). **Fringe Benefits \$12,363:** The current SCDNR fringe benefit cost is set at 40% for salary employees. These rates are within the maximum range set forth by NOAA.

<u>Contractual: \$1,912:</u> The contractual budgeted funds will be used to cover expenses to the grant associated with monthly cell phone charges, printing, copying, and freight charges. A primary function of this project will entail the printing of carbon copied logbooks that will be distributed to licensed individuals to collect data.

**Supplies and Materials \$912:** General office supplies including envelopes (letter and large mailers), pens, printing paper, three-ring binders (for user manuals), and file organization materials will be purchased with these funds. In addition, postage paid envelopes are distributed through a business reply account with the US Postal Service. These funds will cover the yearly accounting fees and postage, both to and from licensed individuals.

<u>**Travel \$1,412:**</u> Vehicle mileage is to be covered under this category. Staff will travel to seafood docks to collect catch and biological data. The current SCDNR travel rate is 50.5 cents per mile.

**Indirect Charges \$9,417:** The current SCDNR indirect cost is set at 30.47% which is only applied toward salaries and wages.

Totals: \$56,923

#### **BUDGET NARAVTIVE** (Approved Funding Period, FY20)

Project:	ACCSP Data Reporting from South Carolina's Commercial Fisheries
	1) 100 % Trip-Level Catch and Effort Data Collection
	2) Biological Sampling for Hard Part/Aging of Offshore Species
FFO#:	NOAA-NMFS-SE-2020- TBD
<b>Project Period:</b>	1 September 2020 – 31 August 2021
1 Year Funding:	\$113,846
Prepared by	Amy Dukes (PI)

**Personnel (Salaries) \$68,227:** Five SCDNR employees' salary time will be utilized with these funds. The five current employees are: Database Manager for 2.5 months (\$11,188); Commercial Outreach Coordinator for 3 months (\$9,558); Wildlife Biologist I (Port Agent) for 6 months (\$18,744); Wildlife Biologist I (Port Agent) for 6 months (\$18,744); and a Data Compliance Administrator for 3 months (\$9,993).

**Fringe Benefits \$25,926:** The current SCDNR fringe benefit cost is set at 38% for salary employees. These rates are within the maximum range set forth by NOAA.

**Contractual: \$3,550:** The contractual budgeted funds will be used to cover expenses to the grant associated with monthly cell phone charges, printing, copying, and freight charges. A primary function of this project will entail the printing of carbon copied logbooks that will be distributed to licensed individuals to collect data. During last fiscal year, 350 logbooks were distributed to dealers, with an average price of \$8.17 per book.

**Supplies and Materials \$2,700:** General office supplies including envelopes (letter and large mailers), pens, printing paper, three-ring binders (for user manuals), and file organization materials will be purchased with these funds. In addition, postage paid envelopes are distributed through a business reply account with the US Postal Service. These funds will cover the yearly accounting fees and postage, both to and from licensed individuals.

<u>**Travel \$2,207**</u>: Vehicle mileage is to be covered under this category. Staff will travel to seafood docks to collect catch and biological data. The current SCDNR travel rate is 50.5 cents per mile.

**Indirect Charges \$11,237:** The current SCDNR indirect cost is set at 16.47% which is only applied toward salaries and wages.

### Totals: \$113,846

<u>Maintenance Projects History for Primary Program Priorities</u>: Catch and Effort (white), Biological Sampling (grey). Beginning in 2011, the funded proposal included both Primary Program Priorities.

Funding Fiscal Year	Amount	Time Period	Results/Comments
2001	\$132,228	1 June 2001 – 31 May 2002 (extended thru 31 May 2003)	Implementation of ACCSP Commercial Module
2003	\$94,760	1 June 2003 – 31 May 2004 (extended thru 30 April 2006)	Continuation of ACCSP Commercial Module
2004	\$39,532	1 June 2004 – 31 May 2005	Biological Sampling. Grant money was awarded in August 2004. State hiring freeze in effect. One year no- cost extension awarded in May 2005.
2005 and 2006		1 June 2005 – 31 May 2006 (extended thru 30 November 2006)	Biological Sampling. State hiring freeze still in effect, lifted in Sept. 2005. Port sampler hired Oct. 2005. Award period extended to Nov. 2006.
2006	\$60,990	1 May 2006 – 30 April 2007 (extended thru 30 April 2008)	Continuation of ACCSP Commercial Module
2007	\$34, 958	1 May 2007 – 30 April 2008	Biological Sampling. Grant money was awarded in August 2007.
2008	\$42,261	1 May 2008 – 30 April 2009	Biological Sampling.
2009	\$0	1 May 2009 – 30 April 2010	Biological Sampling. No proposal submitted, approved for a 6-month no cost extension
2009	\$0	1 May 2009 – 30 April 2010	Continuation of ACCSP Commercial Module. No proposal submitted, approved for a 6-month no cost extension to spend remainder of funds
2010	\$92,098	1 July 2010 – 30 June 30, 2011	Catch and Effort data collection from the Commercial Module
2010	\$54,091	1 July 2010 – 30 June 2011	Biological Sampling.
2011	\$191,807	1 July 2011 – 30 June 2012	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2012	\$186,558	1 July 2012 – 30 June 2013	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2013	\$163,627 * Post budget cut	1 July 2013 – 30 June 2014	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2014	\$175,716	1 July 2014 – 30 June 2015	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2015	\$165,824	1 July 2015 – 30 June 2016	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2016	\$161,504	1 July 2016 – 30 June 2017	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2017	\$163,221	1 July 2017 – 30 June 2018	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2018	\$168,870	1 July 2018 – 30 June 2019	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.
2019	\$113,846	1 July 2019 – 30 June 2020	Catch and Effort data collection from the Commercial Module and Biological Sampling efforts.

### **ACCSP - Ranking Criteria Summary – Full Ranking Process**

**Proposal Type** – Maintenance, no change in scope of work

**Primary Program Priority** – This proposal contains two Primary Program Priorities that fit the current ACCSP Program Design.

- Catch and Effort (70%) SCDNR collects data from <u>100% of all commercial fisheries products</u> landed in this state on a trip-level basis, following standardized data elements and code formats required by ACCSP. **Increased efforts to improve and further promote electronic data reporting.** Metadata is not collected.
- Biological Sampling (30%) (to be considered during the Project Quality Factors) SCDNR collects biological samples, including length measurements and otolith collections, from many species within the Snapper/Grouper complex, Coastal Migratory and Pelagic species. <u>Twelve</u> of the species sampled fall within the ACCSP Biological Sampling Priority Matrix.
- Data Delivery Plan Data will be transmitted to ACCSP quarterly, ensuring that all SC trip-level catch and effort data has been converted to ACCSP codes and follow all established standards.

### **Project Quality Factors –**

- Partners Although this proposal does not have a multi-state partnership, it does have a regional impact. The South Atlantic Fishery Management Council makes recommendations to NMFS-SERO based in part by SCDNR fisheries independent and dependent data collections. The Catch and Effort data and Biological Sampling data provided to ACCSP impacts these regional recommendations.
- Funding Transition SCDNR continues to have discussions with state representatives and legislators about securing reoccurring state appropriated funds to accomplish the ACCSP Catch/Effort and Biological Sampling priorities, however at this time there is no direct long-term state funding available. Several funding proposals have been submitted to the SC Legislature for consideration. Unfortunately, at this time, the requested funds have not been approved. Efforts will continue to attempt to procure state funding, and it is the goal of the agency to secure state funds in the near future.
- In-kind Contribution The Agency does utilize other funding sources to offset the non-existent state funds, which represents the <u>83% in-kind contributions</u>.
- Data Improvement Through the initiation of electronic data collection, primarily from dealers that handle offshore fisheries products, SCDNR will be improving the timeliness of data. QA/QC checks of the data prior to SAFIS data downloads(?) to the warehouse will continue in order to ensure accurate and complete data.
- Secondary Program Priority Biological Sampling (see above).
- Impact on Stock Assessments The Catch and Effort data collected and provided to the ACCSP Data Warehouse is suitable to be provided for future stock assessments. In addition, the finfish lengths and otoliths collected through Biological Sampling efforts are also provided for stock assessments.

#### **Other Factors –**

- Properly Prepared This proposal follows the guidelines under the ACCSP Funding Decision Process Document.
- Merit These funds are essential to continue seamless commercial catch/effort and biological data collections in SC until reoccurring state appropriate funds can be established. A delay or halting? in these data collections may be unfavorable for fisheries management and regulations.

#### ACCSP - Ranking Criteria Summary – Abridged Ranking Process

Achieved Goals – This project has and will continue to meet and endeavor to exceed established project goals. SCDNR staff diligently and consistently work with ACCSP staff to ensure quality data is provided in a timely manner in a clean format which is consistent with established data standards.

**Data Delivery Plan -** Data will be transmitted to ACCSP at minimum quarterly, ensuring that all SC trip-level catch and effort data has been converted to ACCSP codes and follows all established standards. Any data refresh, based upon continuous QA/QC efforts by SCDNR staff, will be provided, as necessary.

Level Funding – This proposal reduced in value accordingly, 33% reduction form previous year.

**Properly Prepared** – This proposal follows the guidelines under the ACCSP Funding Decision Process Document.

**Merit** – These funds are essential to continue seamless commercial catch/effort and biological data collections in SC until reoccurring state appropriate funds can be established. A delay or halting in these data collections may be unfavorable for fisheries management and regulations.

Appendix 1. Example of the logbooks used by SCDNR, Daily Crab Trip Ticket.

SOUTH CAROLIN	A TRIP TICKET	(DAILY CRAB POT)		2-	
DEALER NAME:	CRABBY JOE	EINC.			
DEALER NUMBER:	570345678				
FISHERMAN NAME:	MARY JOE C	RABBE		TRAP ID #	T0001
FISHERMAN ID # or CUSTOMER ID #:	11CEM550	90			
NO. OF CREW: (INCLUDE CAPT)	1	VESSEL NUMBER:	SC475DH		
TRIP START DATE:	07 /	01 /15	UNLOADING DATE:	07 / 0	11 / 15
NUMBER OF TRAPS PULLED:	50		SOAK TIME (HOURS):	24	

#### CIRCLE WATERBODY WHERE MOST OF CATCH WAS MADE

020	Ashley River	300	ICWW: Prices Inlet-Sullivans	420	South Edisto
030	Broad River	310	Little River	430	St. Helena Sound
050	Bulls Bay	330	May River	490	Stono River
070	Calibogue Sound	370	Murrells Inlet	510	Waccamaw River
110	Charleston Harbor	130	North Edisto	530	Wando River
090	Combahee River	410	Port Royal Sound	550	Winyah Bay
100	Cooper River	450	Santee River	241	Atlantic Ocean
290	Folly River	470	Savannah River		

SPECIES	CODE	VOLUME	UNITS (circle one)	UNIT PRICE	TOTAL
#1 (Lg. Males)	7001	4.2	BU LBS DZ	70.00	294.00
#2 (Lg. Females / Sm. Males)	7002	35	BU LBS DZ	1.50	52.50
#3 (Sm. Females)	7003	6	BU LBS DZ	50.00	300.00
MIXED #2 & #3	7004		BU LBS DZ		
JUMBO	7005		BU LBS DZ		
UNGRADED	7000		BU LBS DZ		
PEELERS	7028		EA DZ		
STONE CRAB CLAWS	7180	1	LBS	2.00	2.00
WHELKS	7750		BU LBS		
FLOUNDER	1209		LBS		
CATFISH	0660		LBS		
(List Species)					
				Balt 2 flats	-20.00
				Total	628.50

SC DepL of Natural Resources, Histories Statistics Section, PO Box 12559, Charleston SC 29422-2559 (843) 953-9313 FAX (843) 953-9362

WHITE SCDNR

YELLOW DEALER

PINK FISHERMAN

15-10-67

	TH CAROLINA TR	P TICI	ET (	OFFSH	ORE FIN	FISH)			_					5-	X	XXX	Х
	DEALER NAME:	FIS	HR	US						DEALER NUM	ABER:	570123456					
H	SHERMAN NAME:	](	OHN	WAN	NAFIS	H				FISHERMA OR CUSTOME	NID∉ RID∉:	11	WH	55090	)		
	NO. OF CREW: (INCLUDE CAPD	4		VESSEL NAME:	W	ANN	A FIS	н			ESSEL (BER:	(	57654	3			
1	TRIP START DATE: MM/DD/YYYY		0	71	01 / 2	014			1	JNLOADING MM/DD/			07	/ 0	6 /	2014	
COD	ta cato ano	OF NES		HOOKS	TOTAL R		LOI	RFACE NOLINE TIDM L		345	T	TRAI	s	5	M3	DIVE	
611	ROD & REEL					١,	OF SET	_		# TRAPS	USED	Т		* D0	VERS		
613	(manal) BANDIT REEL		$\vdash$				OF HOC	)KS		# HAULS		t		HOU			_
616	ELECTRAMATE	4	$\vdash$	3	52	1	ENGTH			TUTAL S	OAK TI	æ		+ OF	SPEARS		_
8	TROLL		$\vdash$				MILIS) IOTAL SC			(HRLS)		1			DIVES		_
8	MACKEREL	1	$\vdash$	1	4	-1-	DAYS	8)		_							-
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(11)		3377	PAN:	SHOALS ( 00%)		477 S N	OUTHIPOI	ET- DOTTY	3279		N	3278		ISTUN-	317	BLAKE PLATIA	1
Code	KIND	828	DP	CEAR	LIS	BOA PRIC		DTAL	Code	KIND		SIZE	BP.	CEAR	LIS	BOAT PRES	TOTAL
1423	Gag Grouper	U	GP	613	975	2.90	0 282	27.50	4473	Golden Tilefal	h S	s	œ				
1424	Scamp	U	GP	613	295	2.9	0 85	5.50	4475		М	М	œ				
1416	Red Grouper	U	GP	613	26	2.3	5 61	.10	4471		L	L	œ				
1412	Rock Hind Strawbury	U	GP	613	34	2.8	5 96	.90	4470	U	ingraded	U	œ				
1414	Snowy Grouper 5	s	GP	613	150	2.5	5 38	2.50	0570	Cobia		U	œ				
414	N	M	GP	613	321	2.6		0.65	1050	Dolphin		U	œ	660	80	2.30	184
1414	1	L	GP			v.			4710	Wahoo		U	œ			2.24	104
1414	Ungrades	-	GP		<u> </u>	-			1940	King Mackerel		U	œ		<u> </u>	<u> </u>	
1415	Yellowedge Grouper	U	GP						0180	Barracuda		U	œ		<u> </u>	<u> </u>	
		U			<u> </u>	<u> </u>			1807			U	CP CP		<u> </u>	<u> </u>	
1422	Black Grouper	-	GP		<u> </u>	<u> </u>	_			African Pompa	80	-			<u> </u>	<u> </u>	
1425	Yellowmouth	U	GP						2420	Reacfah		U	RP				
1426	Yellowin Grouper	U	GP						1142	Hel		U	RP				
	Other Grouper	U	GP						1550	Hake		U	RP				
					<u> </u>	<u> </u>			4321	Swordfah	100+	1	CP				
3777	B-liner 3/4-1	-	GP		<u> </u>	<u> </u>		—	4322		50-99	L	CP				
3776	1-1		GP		<u> </u>	<u> </u>	_		4323		26-49	м	CP				
3775	2 - 4	-	GP				_	-+	4327		Chunks	U	CP		<u> </u>	<u> </u>	
3765	Ungrades	-	GP		<u> </u>				4320		ingraded	U	CP		<u> </u>	<u> </u>	
3302	Red Porgy (Pinks)	U	GP						5131	Wreckfish	C. State	U					
3764	Rod Snapper	U	GP	613	38	2.90	) 110	0.20	0193	Baredfish		U	$\vdash$				<u> </u>
3763	Mutton Snapper	U	GP									-			<u> </u>		
3767	Yellowtail Snapper	U	GP							Yellowfin Tura		U		660	42	2.90	121.80
	Other Snapper	U	GP						4658	Blackfin Tuna		S	HC				
1790	Hogfah	U	GP	612	7	2.5	5 17	0.5	4656	Tura, unclassi		М	HG				
3355	Black Seabase S		RP	613	/	2.3	<u> </u>	.82	3505			L					
3353	Nuck Seamon S	+	RP					-+	3495	Blacktip Shark		U					
3351	1		RP					-+	3503	Spiny Dogfah		U					
3351	XI	-	RP						3518	A. Shapnese		U					
_									3511	Smooth Dogfs	<b>h</b>	U					
3360	Ungraded	-	RP						3485	Blacknose		U					
3308	Knobbed Pargy (Job)	U	RP						3481	Finetooth		U					
1441	White Grant	U	RP						3475	Shark firs		U	$\square$				
4560	Triggerfish	U	RP							Other Shark		u	$\square$				
	Mixed Fish	U	RP								_	u.					
5260		1	]					П		A 11-				660	220	40	88.00
\$260 1810	Almaco Jack	U	GP							Albacore				660	220	.40	00.00
_	Almaco Jack Greater Amberjack	U	GP GP					-		Alloacore				000	220	TOTAL	00.00
810		-								Albacore				000	220		00.00

# Appendix 2. Example of the logbooks used by SCDNR, Offshore Finfish Trip Ticket.

SCIDNR COPY

SC Department of Natural Resources, Fuberies Statistics, P.O. Box 12559, Charleston SC 29422-2559 (843) 953-9313 FAX (843) 953-9362 Revised 1/2012 Pro-94612-7003

FISHERMAN NAME NO. OF CREW (INCLUDE CAPT) TRIP START DATE		Lady Fishalot				FISHERMAN ID# OF CUSTOMER ID #:			03FTL79240				
		2	VESSEL			999999			VESS		Coo Dobin		
		_Q6 /	Q4	/ 16		UNLOAD DATE				06	04 /10		′16 <sub>"n</sub>
IRCLE	GEAR USED AND	FILL IN INFO	RMAT	non									
610	HANDLINES (RO	DO & REEL)	343	1	TRAPS				020	н	AUL SI	INE	
NOFL	INES	10	21	PAPS	USED		30		LENG	LENGTH OF NET (PT)			1
+ OF P	OOKS PER LINE		# HAUL		5		1		TOAL SOAK TIME (HRS)				
TOTAL	HOURS FISHED		TOT	TALS	OAK TIM	C (HRS)	48						-
T		TOTAL LEN	-	0744	SOAK 9	55 BY HA	ND	_	676	BOTT	DAK LO	NUCLIN	e
		OF NET(S		TIME (HRS)		760 GIG				IS FISH TROTUNE			
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-	SET SHAD NET		TET			ISHING			# OF HOOKS PER SET				
	DRIFT SHAD NET		EET	E1.						AL SOAK TIME (HRS)			
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010	Black River	Ashley River				vices inlet - Sullivans			1.0				
010					Little Rive		-			St. Helena Sound			
050		Broad River			May River Murrels I			49	-			i.me	
-	Bulis Bay			1000	MURITERS I	1964			Contraction of the local division of the loc	Waccamaw River			
	Calibogue Sound				Marshe Wall.			1.000		Wando River			
070)	and the second se		130	-	North Edi			53	Concession in the local division in the loca	Concession of the local division of the loca	-		
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### Appendix 3. Example of the logbooks used by SCDNR, Bait Dealer Trip Ticket.

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#### **<u>Principle Investigator</u>:** Curriculum Vitae

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#### **EDUCATION:**

Spartanburg Methodist College (SMC), Spartanburg SC Associate in Science, Biology August 1994 to May 1996 Coastal Carolina University (CCU), Conway, SC Bachelor of Science, Marine Science August 1996 to May 1999

#### **CAREER-RELATED EXPERIENCE:**

Jan. 2008Department of Natural Resources, Charleston, SCTo presentMarine Resources Division in the Office of Fisheries Management:<br/>Serves as the Fisheries Management Section Leader, participating in data collection,<br/>management, and administration activities associated with the Fisheries Statistics Section

Supervises, coordinates, and oversees daily operations in the collection of both commercial (Trip ticket Program, Trip Interview Program) and recreational (For-hire logbook, MRIP, special projects/programs) fisheries dependent catch/effort data collections and biological sampling efforts; including but limited to establishing and standardizing operational procedures for field sampling and administrative activities, constituent education and outreach activities, data management (compliance, entry and QA/QC), transmission of data to state/federal/partner agency fisheries managers/data users, Commercial and For-hire License and Permit coordination and support, Law Enforcement coordination and support (Magistrate Court Appearances), report writing, grant submissions and administration (applying for funding opportunities, budgeting and allocations) for approximately \$1 million dollars in state and federal funds. Directly supervise 7 staff, collaborate, and assist in funding 17 employees. In addition, duties include serving as the agencies representative to several state and federal committees and working groups associated with the funding agencies including but not limited to the National Marine Fisheries Service (Fisheries Science Center), the Atlantic States Marine Fisheries Commission, the Atlantic Coastal Cooperative Statistics Program (Vice-Chair of the Operations Committee, Commercial Technical Committee), and the Atlantic Coastal Fisheries Cooperative Management Act. Active participate with the South Atlantic Fisheries Management Council meeting/discussions and serves as a panelist with SEDAR Stock Assessments.

Serves as the Tournament Coordinator for the SC Governor's Cup Billfishing Series. The three goals of the Series are conservation, education, and research. All related activities ensure that the goals are meet and often exceeded. Fundraising and management of the 501-c-3 funds.

Sept. 2000- Department of Natural Resources, Charleston, SC To Jan 2008

ACE Basin National Estuarine Research Reserve (NERR): Participation in comprehensive research activities within the ACE Basin NERR. Manage data collection, sampling instrumentation, and compiling of databases in support of the Reserve's participation in the System-Wide Monitoring Program (SWMP). Responsible for entry,

verification, editing, and statistical analysis of all data; assist with compellation of technical reports; preparing and delivering of presentations at conferences and workshops; and managing the ACE Basin NERR research budget.

Feb. 2000- Department of Natural Resources, Charleston, SC To Sept. 2000

Marine Resources Division in the Office of Fishery Management: Assisting in the execution of an East Coast fin fish management plan. Anadromous species of American Shad and both Atlantic and Shortnose Sturgeon were collected, evaluated, tagged, and released. Knowledgeable in the principles and practices of fish, statistical analysis, equipment maintenance and boat handling. Additionally, American Eel (elver) Young of the Year Survey; responsible for project set-up, daily sample collection, database management and analysis. (Currently the PI of this project)

Sept. 1999- Department of Natural Resources, Charleston, SC To Feb. 2000

Marine Resources Research Institute: Sorted plankton samples to collect and identify three species of post-larval Peneaus shrimp. Responsible for continuation of project organization and data management.

#### UNDERGRADUATE EXPERIENCE (established the principles and practices that propelled my career):

Jan. 1997Peer-Mentoring Program, Coastal Carolina University, Conway, SCTo May 1999

Co-instructor with the Dean of Sciences for a three hour, fall semester class. Served as a mentor and advisor for freshman Marine Science students throughout their first year of study.

May 1997 - Sea World of Florida, Orlando, FL To Aug. 1997

Internship, Marine Education Instructor and Animal Care Assistant.

Dec. 1996 Coastal Carolina University, Coke and Topsail Islands, NC To Dec. 1997

Undergraduate research assistant for an NSF grant-funded project to examine the long-range effects of hurricane damage/erosion on coastal barrier islands and marsh ecosystems. Conducted pre and post hurricane on-site surveys of sediment core sample collection. Analysis and results for the project were presented through reports and oral presentations.

#### EQUIPMENT KNOWLEDGE:

Outboard Motor Boats Fishing Gear (Gill, Fyke, Trammel and Trawl Nets, and Electrofishing) Biological Sampling procedures (length, otolith, and gonad removal) YSI and Nutrient data loggers/samplers

ADDITIONAL SPECIAL SKILLS: Grant Principle Investigator Certified Federal Grant Project Leader for USFWS Microsoft Office Products Excellent Communication Skills to Diverse Audiences