#### **FACT SHEET**



# **South Atlantic Fishery Management Council Pilot Project:**

### Charterboat Electronic Data Collection

**PROJECT SUMMARY:** In partnership with Harbor Light Software, Inc. and the four state marine resource agencies in the region, the South Atlantic Council is testing the operation and application of an electronic logbook for use by federally-permitted charterboats within the region. The pilot project will work with charterboat captains to test a tablet-based electronic reporting tool that will help inform the Council on how well this type of platform may work to collect catch information in the charterboat sector. Support for this project comes from funding provided by the Atlantic Coast Cooperative Statistics Program (ACCSP).

#### What will the pilot project do?

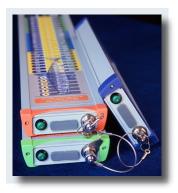
 Test an electronic logbook reporting platform

Participating captains from North Carolina to Florida will use a tablet-based system to record information about their fishing trips. Data to be recorded will include fishing location and depth, catch and effort information, and other trip information.



What is Electronic Reporting?
The use of technologies such as phones, tablets,
or computers - to record,
transmit, receive, and store
fishery data.

integrate the use of an electronic fish measuring board that will record the length of each fish that is caught and transmit the data to the tablet using bluetooth technology. The platform will be based on an existing electronic reporting application developed by ACCSP called SAFIS eTRIPS for use by charterboat captains in the Northeast.



Develop an electronic dockside validation reporting tool

State partners routinely sample the catch of charterboats once the captains return to shore to record information on catch, lengths and other data. The project will develop validation software that can be used by dockside observers (commonly known as port samplers) on mobile hand held devices to collect trip information. The software will allow the dockside observers to electronically validate and compare the trip reports submitted by the captain in real time. Electronic measuring boards will be integrated with the validation software to record species and length data, improving accuracy of these data.

 Develop a handheld phone application used by law enforcement officers to check reporting compliance

To help law enforcement track reporting compliance and the status of federal permits for charterboat vessels, a smartphone application will be developed that is linked to a secure server where reports and permit/license data are stored. Law enforcement officers will use the mobile app to access the server to make sure the captain has the appropriate federal charterboat permits and is in compliance with submitting reports.



Photo credits: Harbor Light Software; FL FWC; A. Vonharten

(Continued)

### How will the project results be used?

Project results will help inform the Council's efforts to implement weekly electronic reporting requirements for federally permitted charterboats in the South Atlantic.

This project is an opportunity for participating captains to help test the reporting platform and software and develop the electronic reporting details for charter vessels to be developed through the Council's For-Hire amendment.

Additional information on the Council's amendment is available from the South Atlantic For-Hire Reporting

Amendment page- http://safmc.net/SAtlFor-HireReportingAmendment



#### **Pilot Project contact:**

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### To learn more about ACCSP and SAFIS eTRIPS, visit:

http://accsp.org/

http://accsp.org/electronic-trip-reporting

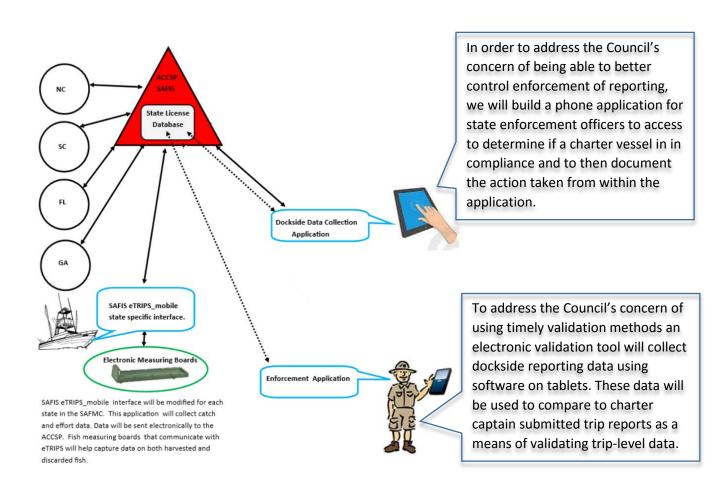
### South Atlantic States Pilot Implementation Proposal: Charterboat Electronic Data Collection

Project Summary and Progress as of August 2016

#### **Project Overview:**

There are 4 components to the Project:

- 1. An electronic catch and effort tablet reporting software, eTRIPS, to be modified as needed to fit the SAFMC and State's needs.
- 2. A dockside reporting application that is easy to use on a tablet that will capture the current APAIS paper form data.
- 3. A fish measuring board to connect via Bluetooth to allow the ability to transfer data on discards and landed catch into eTRIPS/Dockside app.
- 4. A phone based application for enforcement officer to check license and permit status.



The project timeline is as follows:

Note: This may be subject to change.

**Table 1. Project Timeline** (start date depending on time of grant award):

Month	Task
1-4	Tablet eReporting software implementation (including multi-lingual UI, fish measuring board integration).
5-8	Dockside validation software implementation.
9	Compliance software implementation.
4-12	Testing applications in the field, receiving feedback from participants, and making corrections as needed.

Based on the above timeline I have laid out the first few months of actions items. This list will be updated and added to as we move forward. Please review this list and email me any additional action items that I may have been remiss at adding. This list will be placed on a shared drive location once I receive feedback. I will also note any dependencies of any action item.

Status	Module	Action	Person(s) responsible
Completed	Project	Identify State and Federal contacts for project	ACCSP
Completed	eTRIPS	Identify Captains in each state to take part in testing eTRIPS	State Reps
Completed	eTRIPS	Draw up a questionnaire to be sent to each Captain to gather information about their boats and proficiency in using technology.	State Reps
Completed	eTRIPS	Send questionnaire to Captains.	Francine Karp
In Progress	eTRIPS	Receive back and document responses from Captain questionnaire.	Francine Karp
Completed	eTRIPS	Receive in the tablet computers.	Francine Karp
Completed	eTRIPS	Serialize each tablet, do system updates and install eTRIPS evaluation on each.	Francine Karp
Completed	eTRIPS	Send tablets out to Captains with instructions for setup.	Francine Karp
Completed	eTRIPS	Train State contacts in the use of SAFIS management system. (SMS)	ACCSP
Completed	eTRIPS	State contacts to set up accounts for Captains.	State Reps

Open	eTRIPS	In person meetings with each	Francine Karp
open.		Captain to go over the eTRIPS	Transme Karp
		application and make sure each is	
		set up and working properly.	
In Progress	eTRIPS	Determine SAFMC preferences	Mike Errigo
		for things such as gears &	(SAMFC)/State
		dispositions.	Reps
In Progress	eTRIPS	Determine SAFMC preferences	Mike Errigo
		for display of waters fished. Map	(SAFMC)/State
		or list form	Reps
In Progress	eTRIPS	Determine any additional data	Mike Errigo
		collection points required by the	(SAFMC)/State
		SAFMC ie: water depth, targeted species, etc.	Reps
In Progress	eTRIPS	Determine if ACCSP will need to	ACCSP
	CIMI 3	do backend work to accept	7.0001
		additional data collection points,	
		if any.	
In Progress	Dockside Reporting	Research prior electronic MRIP	Francine Karp
_		projects and determine the	
		"lessons learned"	
In Progress	Dockside Reporting	Speak with users of prior	Francine Karp
		electronic dockside reporting	
		projects and gather feedback on	
		them.	
In Progress	Dockside Reporting	Speak with persons who have	Francine Karp
		used the current APAIS paper	
		forms and understand how they are used in the field.	
Open	Dockside Reporting	Determine the best design	Bill Spain
Орен	Bookside Reporting	approach for the electronic APAIS	biii opaiii
		form with feedback from users.	
Completed	Fish Measuring	Order the measuring boards.	Francine Karp
•	Board		-
Open	Fish Measuring	Receive in and serialize boards	Francine Karp
	Board	and ship out to state contacts.	
Open	eTRIPS	Make modification needed to	Bill Spain
		eTRIPS evaluation. Confirm if the	
		changes will be made on a state	
		by state basis or if one	
		application interface will be used	
Onon	oTDIDC	for all SAFMC states.	Francina Vara
Open	eTRIPS	Roll out completed and modified eTRIPS to captains for testing.	Francine Karp
Onon	eTRIPS	Receive feedback from Captains	Francine Karp/Bill
Open	CIMITS	on testing. Document and	Spain/ACCSP/State
		on testing. Document and	Reps/Fed reps
			перэд ген герэ

		determine changes/fixes to be made.	
Open	Enforcement App	Determine how the enforcement phone app will communicate with the ACCSP.	Bill Spain/ACCSP
Open	Enforcement App	Determine if the ACCSP needs to provide an API to communicate to the database for the purpose of downloading and displaying data in the enforcement app.	ACCSP
Open	Measuring Board	Determine how the measuring board will be used in the field by both the Captains/mates and the dockside samplers.	All
Open	Measuring Board	Begin to lay out design plan for the transmission of data from the boards to other applications.	ACCSP/Bill Spain
Additional Items will be put on the list as the project moves forward.			

#### Lessons Learned:

As we go along, I would like to keep track of "Lessons Learned" in this project. Please send me any lessons learned that you have to add to this list.

1. When setting up iOS apps under one Apple ID, the App will not be able to be updated with a different Apple ID.

When I updated the iPads I downloaded App under my Apple ID. I then instructed the Captains to make their own Apple ID for their iPads. They were unable to update the eTRIPS app that I had installed. The fix was to have each Captain delete the eTRIPS app and reinstall using their Apple ID.



## South Atlantic States Pilot Project: Charterboat Electronic Reporting

Co-PI: Dr. Mike Errigo, SAFMC

Co-PI: Francine Karp, Harbor Light Software, Inc.



## **Project Background**

- 3 major components
  - 1. Electronic logbook for charterboat captains to log catch
  - Reporting tool for electronic dockside validation of trip reports
  - Phone app allowing law enforcement officers to check reporting compliance
- Each component has an initial software development phase, a field testing phase, and a refinement phase
- Also recruiting, training, and outreach for participants



## **Progress Update**

### Equipment

- All tablets have been ordered, setup with software, and distributed to state partners and participants
- Measuring boards have been ordered and will take several more weeks to arrive

### Participants

- All participants have been recruited and contacted by a project representative
- NC: 5+1 volunteer, SC: 4+2 volunteers, GA: 2+2 volunteers, FL:6+2 (Keys)
- Participants are being entered into the SAFIS system and given a login and password
- Initial training using a test app was done so participants can become familiar with the app



## **Progress Update**

- Software Development
  - Initial discussions focused on what changes needed to be made to the logbook app
  - Core data elements were decided on
  - Still working on gear types and dispositions
  - o Coding has now begun since funding came in
  - Development of the validation tool is underway, with collaboration of MRIP
  - Work on LE tool will begin once the logbook pilot is underway



## **Progress Update**

### Field Testing

- Hope to have captains using the software on actual trips in Sept.
- Testing will continue into next summer

### Outreach

- Training on the use of the app is currently ongoing
- A test app was loaded for captains and state reps to familiarize themselves with the program
- Training videos were made to help facilitate the learning process
- Ongoing contact with the captains will occur throughout the project on a regular basis

Project Timeline (start date depending on time of grant award)	
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1-4	Tablet eReporting software implementation (including multi-lingual UI, fish measuring board integration).
5-8	Dockside validation software implementation.
9	Compliance software implementation.
4-12	Testing applications in the field, receiving feedback from participants, and making corrections as needed.

Funding became available on August 1st



Project	Project Timeline (start date depending on time of grant award)	
Month	Task	
Aug-Nov	Tablet eReporting software implementation (including multi-lingual UI, fish measuring board integration).	
Dec-Mar	Dockside validation software implementation.	
Apr	Compliance software implementation.	
Nov-Jul	Testing applications in the field, receiving feedback from participants, and making corrections as needed.	

Hoping to start field testing in Sept





### Thanks!

- Francine Karp: Harbor Light Software, Co-PI
- Bill Spain: Harbor Light Software
- Kris Kelleher: Harbor Light Software
- Mike Cahall: ACCSP
- Karen Holmes: ACCSP
- Geoffrey White: ACCSP
- Nicholas Mwai: ACCSP

- Chris Wilson: NC DENR
- Doug Mumford: NC DENR
- Michelle Duval: NC DENR
- Amy Dukes: SC DNR
- Brad Floyd: SC DNR
- Kathy Knowlton: GA DNR
- Delaine Hildreth: GA DNR
- Beverly Sauls: FL FWC
- Royce Zehr: FL FWC

All the captains who volunteered to test the equipment.



# **Questions?**

