



# **South Atlantic States Pilot Project: Charterboat Electronic Reporting**

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# Project Background

- 4 major components
  1. Electronic logbook for charterboats: eTRIPS/mobile
  2. Dockside Interceptor tool for logbook validation
  3. Electronic measuring boards
    - Discards on trips
    - Dockside interviews
  4. Reporting compliance phone app for law enforcement



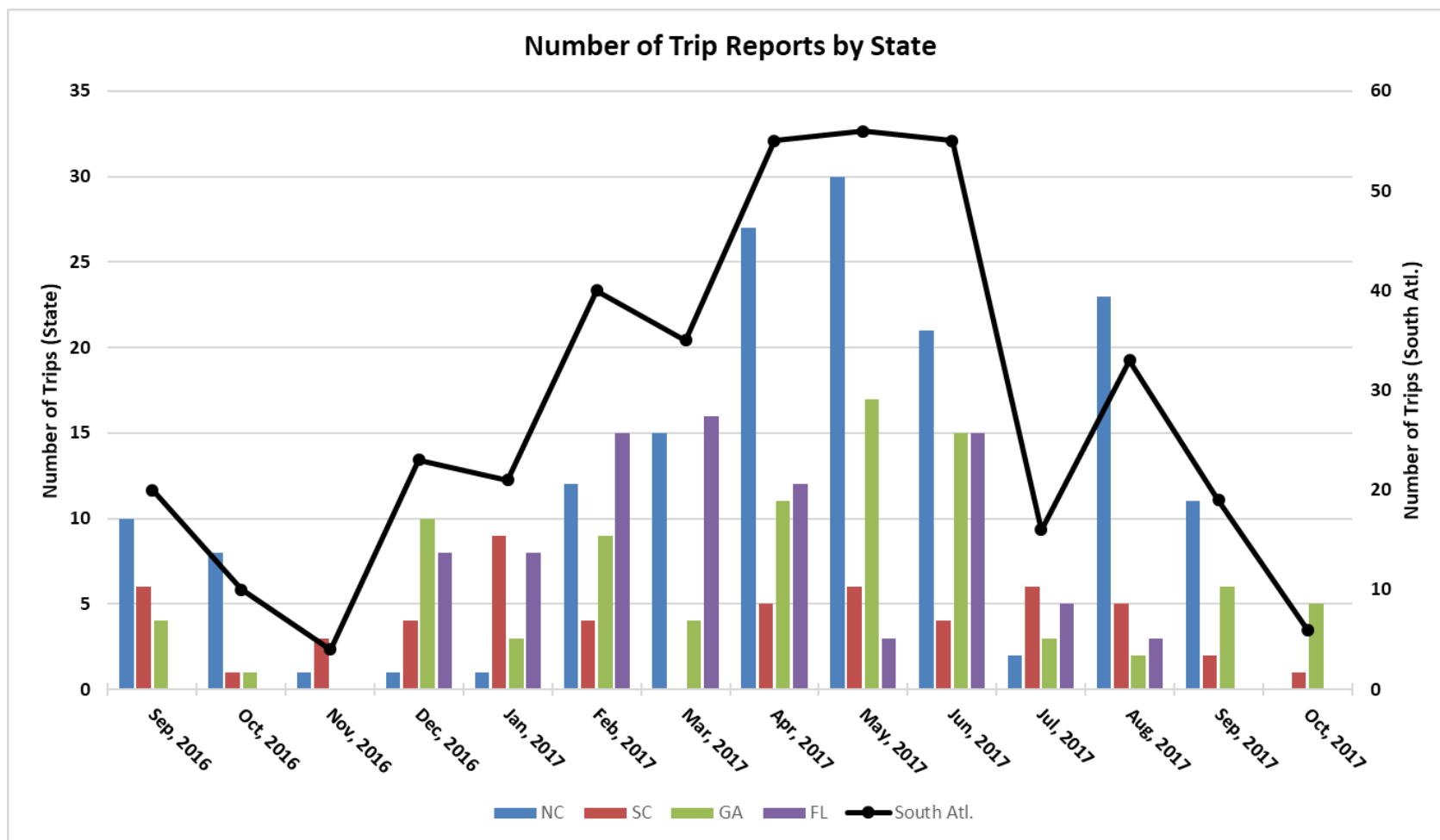
# Objectives

1. Determine what changes, if any, were needed for eTRIPS/mobile to fit new SAFMC electronic reporting requirements.
2. Determine if ruggedized tablets would outperform “off the shelf tablets” dockside.
3. Determine if using a tablet app dockside could be as efficient and as accurate as the current paper intercept method.
4. Test the feasibility of using an electronic measuring board to increase speed and reliability when measuring catch.
5. Develop an app to determine if a vessel/Captain are in compliance with electronic reporting requirements.



# eTRIPS/mobile

- 393 trip reports submitted by 18 captains using the app
  - NC: 41% trips, 5 capts
  - SC: 14% trips, 4 capts
  - GA: 23% trips, 3 capts
  - FL: 22% trips, 6 capts
- Participation ranged from 1 trip to over 60 trips submitted
- Also varied by month – peak was Apr, May, and Jun





# Changes/Additions

- Onboarding
  - Happens on initial login by captain
  - Basic “walk through” of application
  - Compliment to in-depth tutorial videos
- Reporting of trip location
  - Either manual entry of Lat/Lon or click on map
  - Map has 1 degree grid lines
  - Does not need internet except for initial download
  - Captains requested ability to manually enter location



# Changes/Additions

- Trip and Effort Times
  - Initially had to duplicate time and date from trip to effort
  - Captains saw this as inefficient, now input hours fished
  - Solved number 1 support issue of improper input of effort time
- Toggle Switches between For Hire and Commercial
  - Toggle between FH and Comm for Gears and Dispositions
  - Previously had 1 large list with all Gears and Dispositions
  - Was too confusing and cumbersome



# Dispositions

- 15 out of 22 FH disp used to describe catch
- Already reduced from 69 possible disp
- Several criticisms from captains
  - Hard to understand/confusing
  - Some missing
  - Too many

Disposition	% Trips
General Utilization: Food	70.2%
Not Brought on Board: Released alive	28.8%
Discards due to Regulations: Too small	17.6%
General Utilization: Bait	13.2%
Discards due to Regulations: Closed season	4.8%
Discards due to Regulations: No retention	4.6%
Discards due to Regulations: Too large	3.3%
General Utilization: Personal Use	3.1%
General Utilization: No Catch	1.3%
General Utilization: Research	1.0%
Not Brought on Board: Dead discard	1.0%
Discards due to Quality: Finfish damage	0.5%
Discards due to Regulations: Quota filled	0.5%
Discards due to Market: No market	0.3%
Discards due to Market: Reason not specified	0.3%



# Ex. Disposition Issues

- Reached Bag Limit
  - Discards due to Regulations: Quota filled (0.5%)
  - Not used as intended, confusing wording
  
- Not Brought on Board
  - Not Brought on Board: Released alive (4.8%)
  - Not Brought on Board: Dead discard (4.6%)
  - Intended for use with HMS species.
  - Used for general discards instead.
  - Captains wanted a disposition for dead vs. alive discards.



# eTRIPS/mobile

- Captains had concerns with economic questions
- Really felt they shouldn't have to answer these
- Many trips left these fields blank
  - 41% trips had at least 1 econ question answered
  - 39% trips had fuel used
  - 31% trips had price of fuel
  - 16% trips had charter fee



# eTRIPS/mobile

- Overall positive feedback
- Captains very involved in the process
- Happy to see their suggestions implemented
- Training videos were very helpful
- If chosen as reporting platform, ACCSP ready to take next steps
  - Evolve into a more For Hire-centric app
- Pilot was a Proof of Concept – Definitely show charter captains are able to log their trips and catches using this software



# Dockside Interceptor

- Converted paper APAIS to app
- Long development stage
  - Nothing previous to work from
- Allows for matching to logbooks
- Multiple variables can be used
- Still working on how best to collect location from eTRIPS/m
- 150 angler intercepts
  - 4 trips with eTRIPS/m logbooks

Dockside Interceptor	eTRIPS/M
Year	Year
Month	Month
Day	Day
Time of Interview	End Time of Trip
Vessel Name	Vessel Name
Vessel ID	Vessel ID
Int Site	Port of Return

# Example Trip Intercept

Dockside Interceptor		
Year		2017
Month		Sept
Day		22
Time of Interview		2:00 PM
Num Anglers		5
Species	Disposition	Quantity
Black Sea Bass	Kept	15
	Disc Alive	66

eTRIPS/m		
Year		2017
Month		Sept
Day		22
End Time of Trip		1:30 PM
Num Anglers		5
Species	Disposition	Quantity
Black Sea Bass	Kept	15
	Disc due to regs: Too small	30





# Dockside Interceptor

- Biggest issues with tablets
  - Expensive, ruggedized
  - Problems with overheating and freezing up
  - Did not see same issues with standard tablets
- Initially steep learning curve
  - Speed of intercept increased with comfort of use
  - Sampler suggestions improved flow
  - Speed comparable to paper interviews
- Real benefit is on back end
  - Data entry step is eliminated
  - QA/QC is much faster



# Dockside Interceptor

- Due to positive feedback and support, moving forward with use of app in place of all APAIS paper forms
- Proof of Concept
  - Developed an app that can intercept charterboat anglers dockside
  - All pertinent data on trip and catch is recorded
  - These interviews can be linked back to captain elogs for purposes of validation



# Electronic Measuring Boards

- 2 major uses
  1. Dockside intercepts (kept fish)
  2. Charter trips (discards)
- Beam lengths directly to tablet app
- Potential to speed up field sampling
- Potential to get sizes of discards
  - Currently only get sizes from headboats



# Electronic Measuring Boards

- They did work and helped speed up sampling
- Proof of Concept
  - Measuring boards were connected to validation app
  - Able to beam lengths directly to tablet
- Difficulty getting boards to talk to tablets
- Delayed use to last week of Pilot
  - Unable to connect to eTRIPS/m for use on trips



# Electronic Measuring Boards

- Requires further testing with Dockside Interceptor
  - Too few trips matched (4)
  - Further testing as Dockside Interceptor evolves
- Recommend connecting boards to eTRIPS/m
  - Obtain lengths of discards
  - Need to know viability of use on a fishing trip



# Law Enforcement App

- Late start due to difficulties with Dockside Interceptor
- Layout of app has been developed
- Working on API with ACCSP
- Work is ongoing

# SAFIS eTRIPS/mobile Evaluation

Sign In

User Name: SAFMC

Password: redsnapper

RESET

SUBMIT

SAFIS eTRIPS/mobile





# Questions?

