SAFIS Goes App: Development of a hand-held application for fisheries trip reporting

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Overview

• ACCSP
• SAFIS
• Hand-held development
  – Now
  – Future
• Questions
What is the ACCSP?

The Atlantic Coastal Cooperative Statistics Program (ACCSP) is a cooperative state-federal program to design, implement, and conduct marine fisheries statistics data collection programs and to integrate those data into a single data management system to meet the needs of fishery managers, scientists, and fishermen.

**Mission:**

1. Create common standards
2. Improve data collection
3. Disseminate data
Who are the Program Partners?

- 15 Atlantic coast States and the District of Columbia
- New England Fishery Management Council
- Potomac River Fisheries Commission
- South Atlantic Fishery Management Council
- Mid-Atlantic Fishery Management Council
- Atlantic States Marine Fisheries Commission
- NOAA—National Marine Fisheries Service
- U.S. Fish and Wildlife Service
What is the value of ACCSP?

• Data collection standards have been modernized and streamlined using the ACCSP Atlantic Coast Standards as a protocol.

• The Data Warehouse is available as a source of complete, homogenized landings data with a time series of over 60 years for fisheries managers, scientists and the public.

• The ACCSP staff combines computer technical skills with fisheries knowledge to provide users with a unique resource.
Standard Atlantic Fisheries Information System

SAFIS is a relatively low-cost, real-time web-based data entry system for commercial and recreational landings on the Atlantic Coast.

• 10 years and 5 applications
• Northeast (ME, NH, MA, RI, CT)
• Mid-Atlantic (NY, NJ, DE, MD)
• South Atlantic (SC, GA)
SAFIS Benefits

• Up-to-date information on species caught and their impact on fisheries and quotas
• Confidential access to data-of-record by fishermen and dealers
• Fulfillment of state and federal reporting requirements through online data entry eliminates duplicative reporting
• Integrated highly migratory species reporting
• Flexibility in creating favorites so reporting is quick and easy
• Management tools to facilitate maintenance of partner-owned data such as participants, online permits, and vessels
SAFIS Applications

• Electronic dealer reporting (eDR):
  > 4 million dealer records

• Electronic trip reporting (eTRIPS) and e-1 Ticket:
  > 465,000 trip records

• Voluntary logbook (eLogbook):
  > 6,700 angler records

• SAFIS Management System (SMS)
Background

• Application that can track the details of a trip and accept real time data removes uncertainty due to recollection found in logbooks
• Additional data logged automatically: vessel position and speed
• Lengths and dispositions key entered as catch comes aboard
• Collect valuable data and minimize gaps
• eTRIPS
General Requirements

• 3 platforms: Android, Apple, Windows
• No internet connection necessary during data capture and initial validation
• Transmits data in accordance with the SAFIS Trip Reporting Application Programming Interface (API)
General Requirements (cont.)

- Commercial/recreational designation
- Favorites
- Standard trip data elements plus length and optional lat/long
- https protocol
- Update via internet
Pilot Testing

• RI Department of Fish and Wildlife (RIDFW)
• Rhode Island Party and Charter Boat Association (RIPCBA)
• RIPCBA captains
  – 10 testers
  – 2 standbys
  – Both federal and non-federal
Pilot Testing

• Training
  – Developer initial trainer
  – Help desk (RIDFW & RIPCBA)

• Data validation
  – VTR comparison
  – Port samples (RIDFW)

• Feedback
  – In application
  – Exit interviews
Current Status

• Officially in development as of early September 2013
All Trips (Home) Mock Up

- New Commercial Trip
  - New Trip (Sat 09/21/13 10:45 AM)
  - New Trip (Fri 09/20/13 05:29 PM)
- New Recreational Trip
  - New Trip (Sun 09/15/13 10:53 AM)
  - New Trip (Sun 09/15/13 10:53 AM)
  - New Trip (Sun 09/15/13 10:52 AM)
  - New Trip (Sat 09/14/13 04:04 PM)

Atlantic Coastal Cooperative Statistics Program
<table>
<thead>
<tr>
<th>Effort Species Mock Up</th>
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<tbody>
<tr>
<td>Angelfishes</td>
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<tr>
<td>Crab, Hermit</td>
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<tr>
<td>Flyingfish, Atlantic</td>
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<tr>
<td>Muskellunge</td>
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<tr>
<td>Pumpkinseed</td>
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<tr>
<td>Rudderfish</td>
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<td>Salmon</td>
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<td>Bream, Sea</td>
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<tr>
<td>Dolphin</td>
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<td>Mullets</td>
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<tr>
<td>Needlefish, Redfin</td>
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<td>Rabbitfishes</td>
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<tr>
<td>Rudderfishes</td>
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<tr>
<td>Scorpionfishes</td>
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<tr>
<td>Crab, Green</td>
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<td>Flounder, Summer (Fluke)</td>
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<td>Mummichog</td>
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<td>Puffers</td>
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<td>Rockweed</td>
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<tr>
<td>Sailfish</td>
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<td>Sculpins</td>
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Atlantic Coastal Cooperative Statistics Program
Future

• Final deliverables Summer 2014
• Basic application will be available to all ACCSP partners
• Vendors will have access to source code to develop add-ons that could be made available for purchase
• Begin working on mobile version of eDR
Questions?

ACCSP
Good Data, Good Decisions

www.accsp.org