Southeast Regional Headboat (SRH)

Final Report

Report Title: MRIP IMT Funded Project – Final Report

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1 Final Report

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1.1 Executive Summary

The Southeast Regional Headboat project was an effort to develop a data recording system with capabilities to upload, review, validation, and make corrections through an online interface. The system was developed by the Southeast Fisheries Science Center with Kenneth Brennan and Kelly Fitzpatrick as primary stakeholders guiding the requirements of the project.

The project was completed in June, 2013. Deliverables included:

- Database Design Documentation
- Users Guide
- Training and user support (issue tracking via online system)
- Fully functional system supporting day-to-day operations in production

1.2 Background

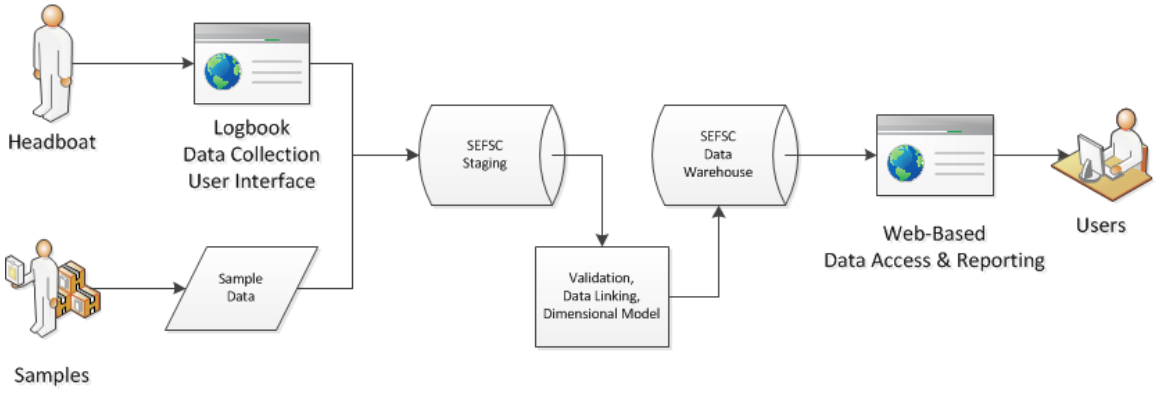
As part of the ongoing effort to address the increasing demands on data collection programs for improved and timelier recreational data, the MRIP Operations Team approved FY12 funding for: Pilot Project, Phase II: Survey-Wide Implementation of Electronic Logbook Reporting on Headboats Operating in the U.S. South Atlantic and Gulf of Mexico. This project will expand electronic logbook reporting to the entire universe of headboats in the Southeast Region Headboat Survey (SHRS) currently reporting on paper logbooks. The funding for the project will support the devel-

opment of an internet-based software system with mobile applications for the South Atlantic and Gulf of Mexico headboat fishery. Although this system will significantly increase the efficiency of collecting catch and effort data, it does not address the current deficiencies for storage and accessibility of incoming or archived headboat logbook data, biological data or other source data maintained at the NOAA Beaufort Laboratory. Since 1981 the SRHS has maintained data files in two basic formats, ASCII (dta) and Dbase (dbf). In recent years these formats have presented numerous problems, including compatibility with operating system updates, data extraction and limited storage capacity. As data managers strive for consistency between management structures and data availability, these issues will impede the ability of the SRHS to achieve these objectives. Furthermore, gains that are realized from electronic reporting may be offset by these deficiencies due to the lag time required to convert the data to the present formats.

1.3 Project Objectives (Recommendations)

The main objectives of the project are:

- Loading of data from Electronic Logbook Reporting system
- Loading of data from port-side sampler data storage (include measuring board data)
- Build data staging area at SEFSC for hosting raw data from data providers
- Build data processing to validate, link, and merge data from sources
- Load data into SEFSC data warehouse
- Provide web-based data access for reporting and extraction (download local copy)



1.4 Delivered System Capabilities (Conclusion)

Upload Modules which allows users to upload pre-define file formats to the shared database system

- Upload Modules
    - Upload Biological Profile Data
    - Upload Port Agent Schedule Assignments
    - Upload Captain Trip Reports
    - Upload Landing Estimates
    - Upload Angler Days Estimates

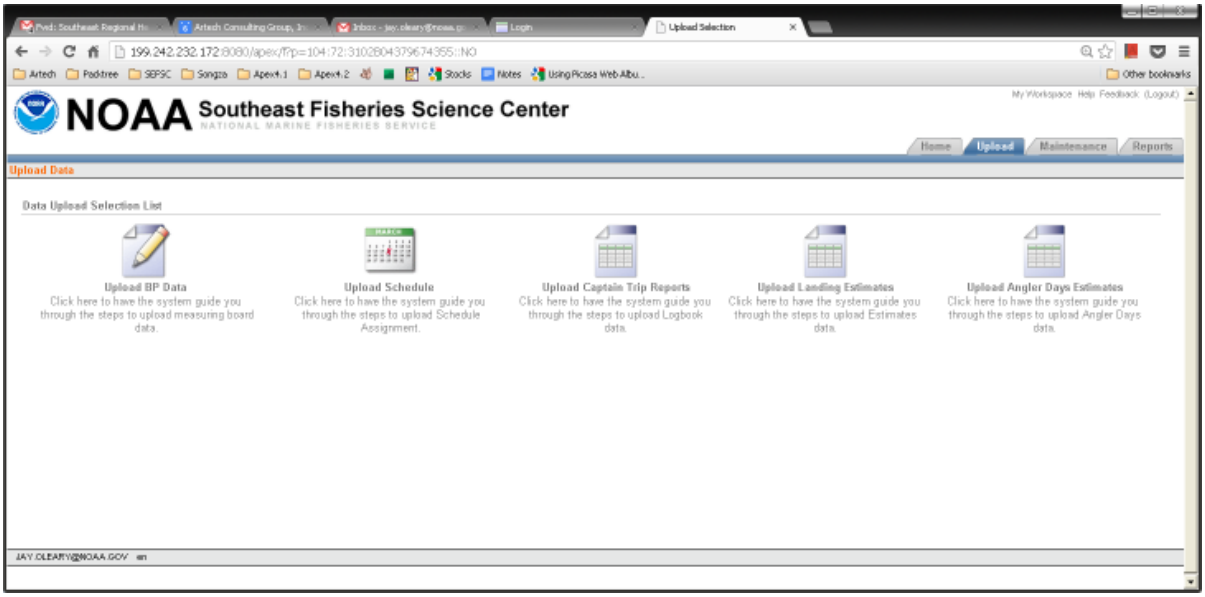
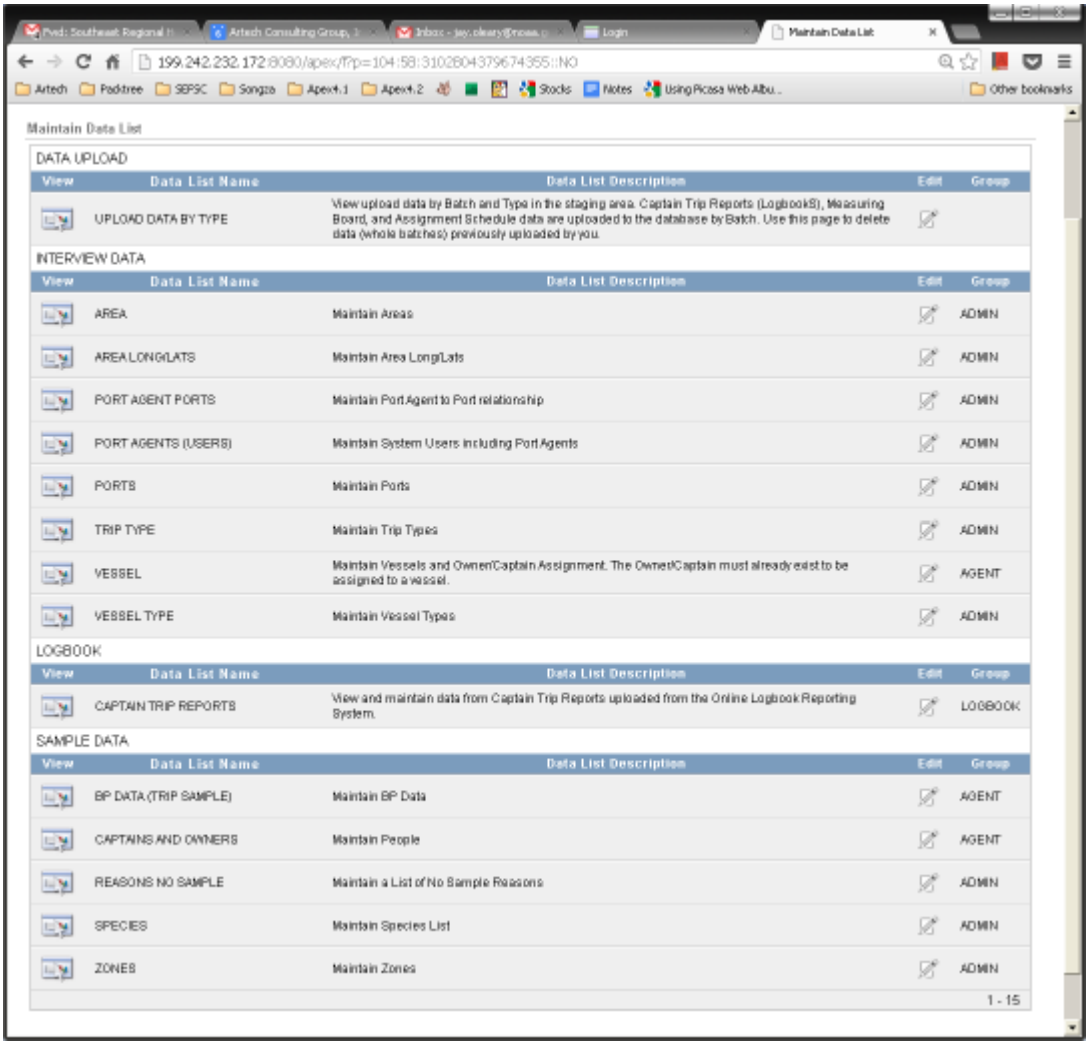


Figure 1 - Upload Modules

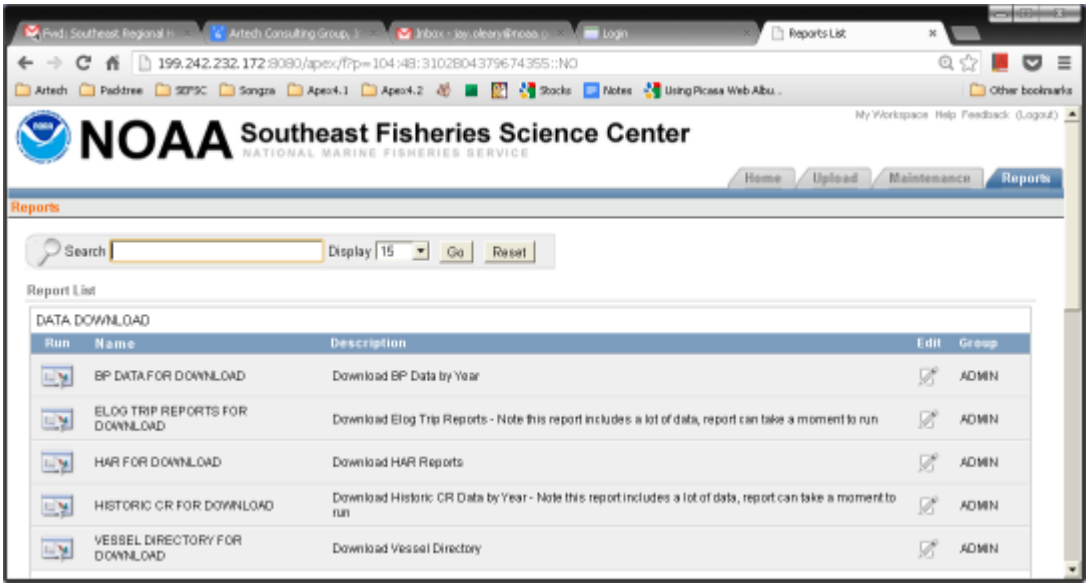
There are over fifteen **Data Maintenance Modules** which allow users to maintain data through the online interface

- Maintain uploaded data by Batch and Type (i.e. Captain Trip Reports, Measuring Board, and Assignment Schedule)
- Maintain Areas
- Maintain Area Long/Lats
- Maintain Port Agent to Port relationship
- Maintain System Users including Port Agents
- Maintain Ports
- Maintain Trip Types
- Maintain Vessels and Owner/Captain Assignment. The Owner/Captain must already exist to be assigned to a vessel.
- Maintain Vessel Types
- View and maintain data from Captain Trip Reports uploaded from the Online Logbook Reporting System.
- Maintain Biological Profiles Data
- Maintain People
- Maintain a List of No Sample Taken Reasons
- Maintain Species List
- Maintain Zones



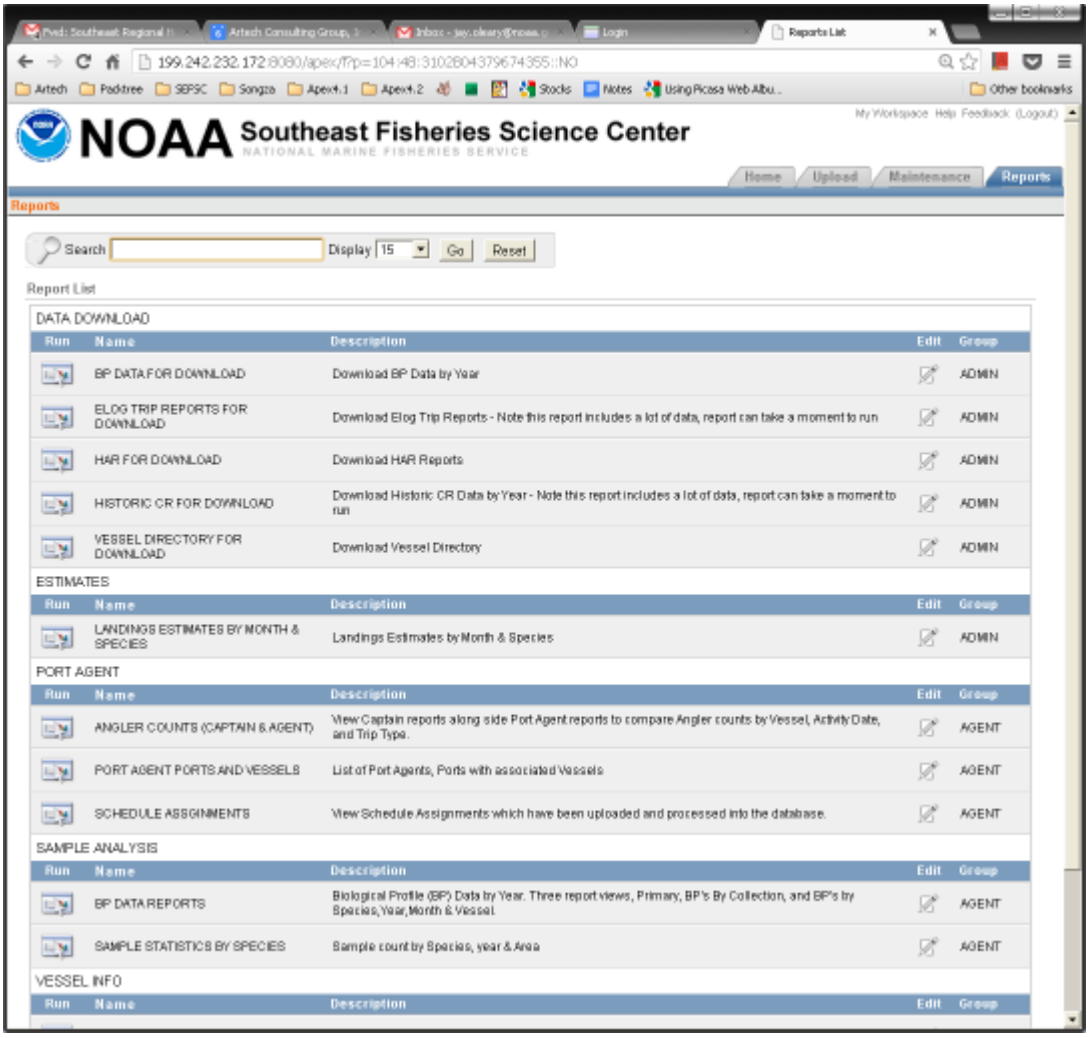
There are five **Data Download Modules** which allow users to download data from the shared online database to their local desktop computer.

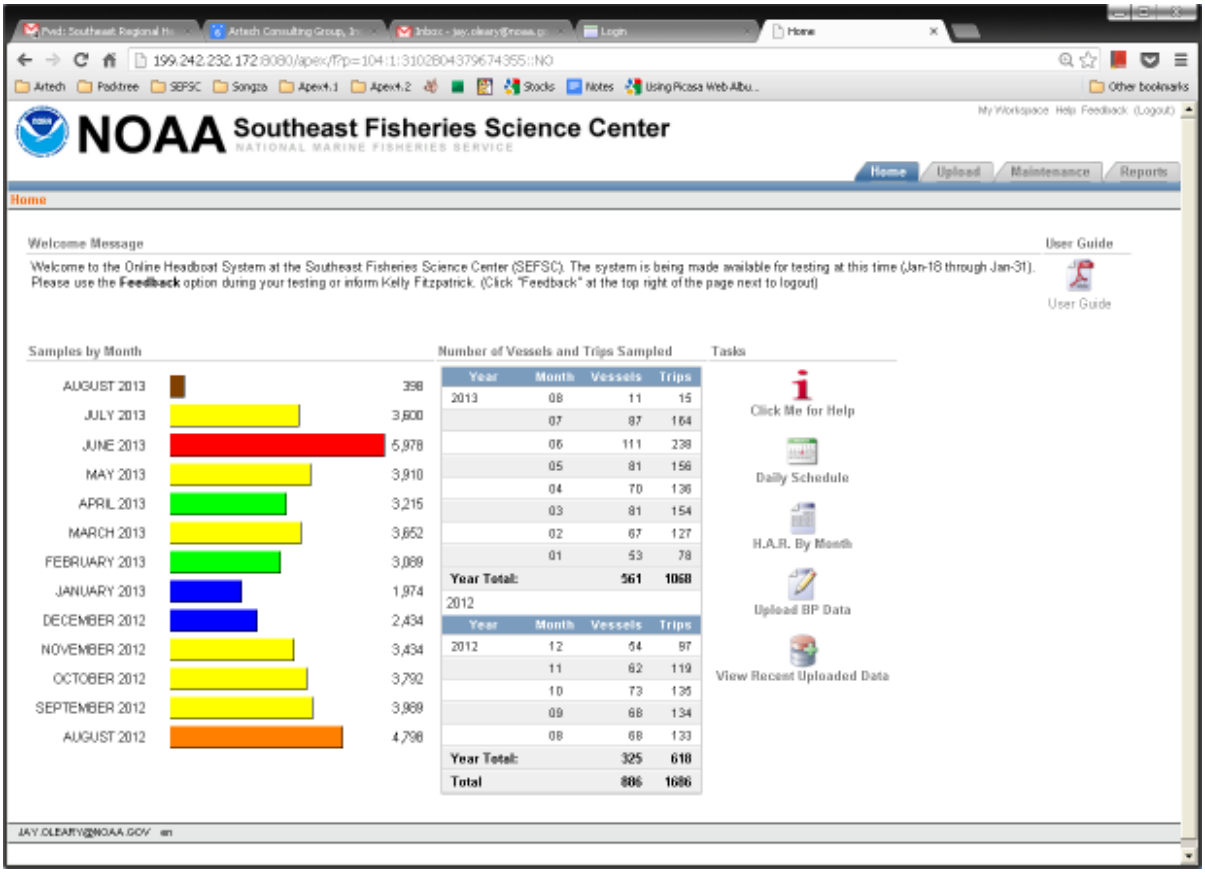
- Download Biological Profiles Data by Year
- Download Elog Trip Reports - Note this report includes a lot of data, report can take a moment to run
- Download Headboat Activity Reports
- Download Historic Catch Reports Data by Year
- Download Vessel Directory Attributes



There are over fifteen **Reporting Modules** where users can view online reports charts and graphs.

- Landings Estimates by Month & Species
- View Captain Reports alongside Port Agent reports to compare Angler counts by Vessel, Activity Date, and Trip Type.
- List of Port Agents, Ports with associated Vessels
- View Schedule Assignments which have been uploaded into the database
- Biological Profile (BP) Data by Year.
    - Three report views
        - Primary,
        - BP's By Collection,
        - and BP's by Species, Year, Month & Vessel
- Sample count by Species, year & Area
- View data from Captain Trip Reports uploaded from the Online Logbook Reporting System
- View Owners and Captains by Vessel


NOAA Southeast Fisheries Science Center
NATIONAL MARINE FISHERIES SERVICE
Home
Upload
Maintenance
Reports
Search
Display 15
Go
Reset
Report List
DATA DOWNLOAD
Run Name Description Edit Group
BP DATA FOR DOWNLOAD Download BP Data by Year ADMIN
ELOG TRIP REPORTS FOR DOWNLOAD Download Elog Trip Reports - Note this report includes a lot of data, report can take a moment to run ADMIN
HAR FOR DOWNLOAD Download HAR Reports ADMIN
HISTORIC CR FOR DOWNLOAD Download Historic CR Data by Year - Note this report includes a lot of data, report can take a moment to run ADMIN
VESSEL DIRECTORY FOR DOWNLOAD Download Vessel Directory ADMIN
ESTIMATES
Run Name Description Edit Group
LANDINGS ESTIMATES BY MONTH & SPECIES Landings Estimates by Month & Species ADMIN
PORT AGENT
Run Name Description Edit Group
ANGLER COUNTS (CAPTAIN & AGENT) View Captain reports along side Port Agent reports to compare Angler counts by Vessel, Activity Date, and Trip Type. AGENT
PORT AGENT PORTS AND VESSELS List of Port Agents, Ports with associated Vessels AGENT
SCHEDULE ASSIGNMENTS View Schedule Assignments which have been uploaded and processed into the database. AGENT
SAMPLE ANALYSIS
Run Name Description Edit Group
BP DATA REPORTS Biological Profile (BP) Data by Year. Three report views, Primary, BP's By Collection, and BP's by Species, Year, Month & Vessel AGENT
SAMPLE STATISTICS BY SPECIES Sample count by Species, year & Area AGENT
VESSEL INFO
Run Name Description Edit Group



1.5 References

- Entity Relationship Diagram (Database Design Data Model) - SRH_ERD6.txp
- User Guide - HeadboatUserGuideBasics.pdf
- Port Agent Training Overview - Port Agent Overview.pptx