

Science, Service, Stewardship

Tab F, No. 5



# NOAA FISHERIES SERVICE

October 18, 2018

## SEFHIER Implementation Update

*July Workshop Summary  
and Outcomes*



# Quality Management Workshop



- The Quality Management PSG inquired about using our region's For-Hire Electronic Reporting programs as a training exercise
  - QM is part of Fishery Information System Program
  - Promotes quality management and continuous improvement through engagement, strategic planning, process improvement tools and listening to the customer
- 3 day meeting held July 2018 at QM annual meeting

<https://www.fisheries.noaa.gov/national/commercial-fishing/quality-management-and-continuous-improvement>

# Quality Management Workshop



- QMPSG requested small group to allow for dialog and hands-on approach
- Selected spokesperson from each stakeholder group
  - Data providers: Charter and Headboat permit holders from each region (Gulf and South Atlantic)
  - Ancillary data providers: permits, VMS, law enforcement
  - Data warehouse: ACCSP
  - Data end users: SERO, SEFSC, S&T, Councils
- Meeting included overview and application of QM tools, Ad hoc hot topic discussion, and a mini-session on outreach

# Workshop Goals

Data Flow

Input &  
Output

Data  
Requirements

Feedback Loops

Measures and  
Metrics

Business Rules

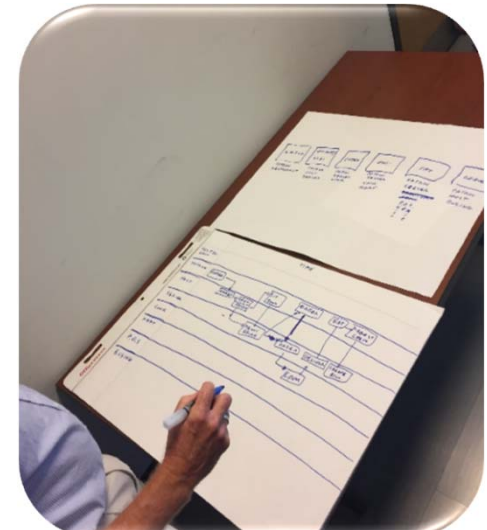
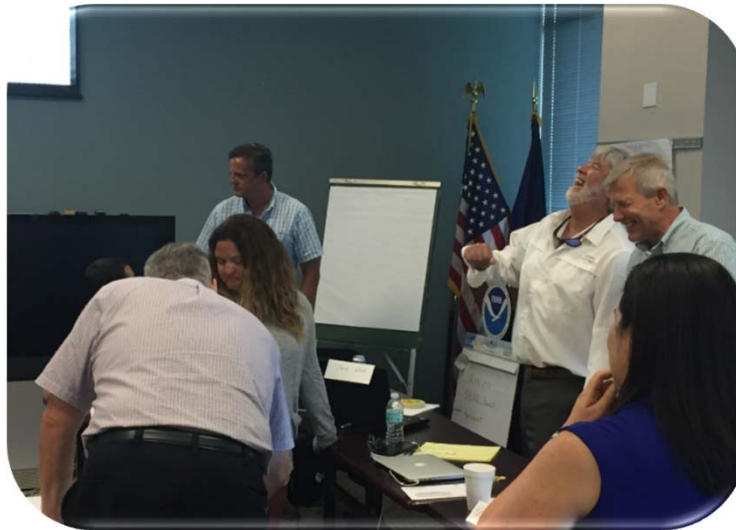
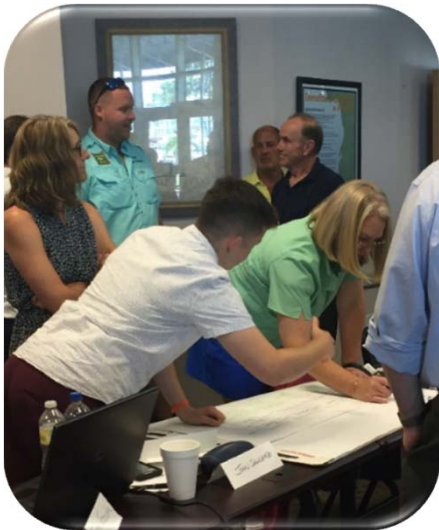
Expectations

# Stakeholder Concerns

- Reduce:
  - Implementation time
  - Reporting burden
  - Duplicative reporting
  - Data uncertainty
- Benefits to reporting
- Minimum standards
- Develop data flows
- Flexibility/emergency plans
- Cost to fishermen
- Cost to implement
- Managing expectations
- Understanding:
  - Compliance and validation needs & purpose
  - Data usage
  - Scientific uncertainty
  - Management uncertainty
- Communication
  - Improved outreach
  - Communication and monitoring outside working hours

# QM Tools

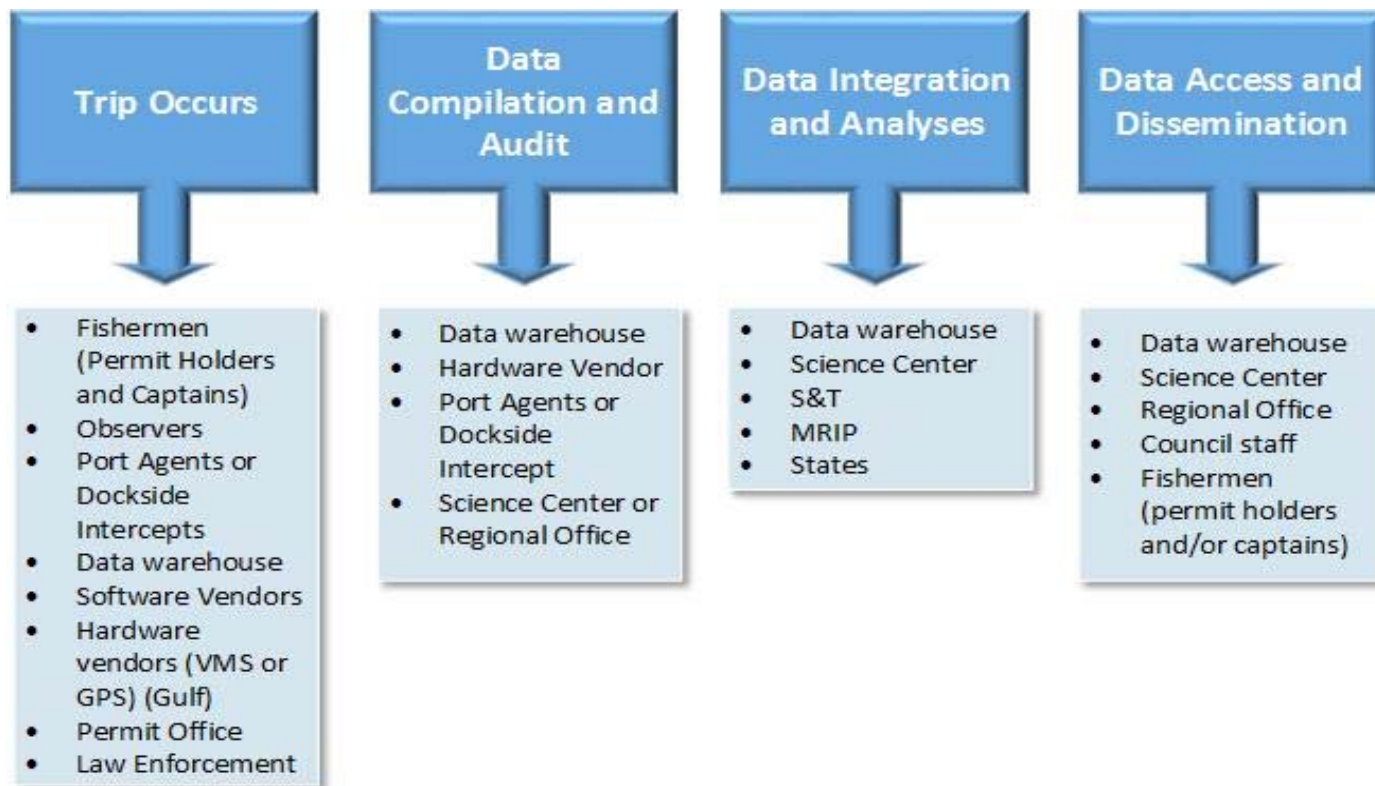
- Process mapping visual tool to describe steps and decision points
  - Best created in team environment
  - Provide avenue for insight, identify improvement areas, and enhance communication





# Workshop Objective: Mapping Data Pathways

- Define single reporting system that reduces reporting time, data uncertainty, but provides flexibility to the fishermen



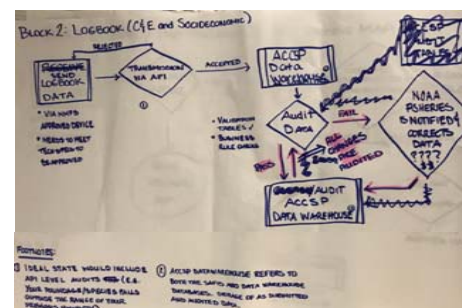
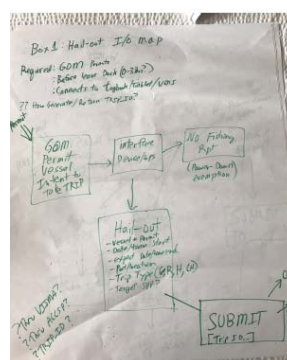
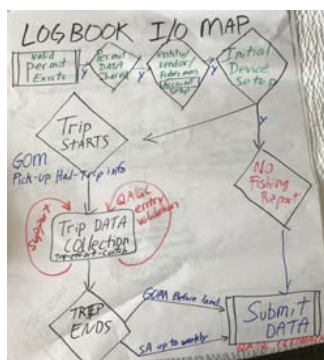
# Discoveries

## What Happens When A Trip Occurs?

- Pre-existing info
- Fishermen entered info
- Trip related info

## What is needed for Data Calibration and Audit?

- One Data warehouse
- API
- QA/QC thru API and manual





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# Discoveries

## **What is Needed For Data Integration & Analysis Data**

- Avoid duplicative entry
- Integrate with existing datasets
- Integrate other data (e.g., biological samples)

## **What is Needed for Data Access & Dissemination**

- Variety of people need access
- Outputs are reports or data streams
- Consider fishermen outputs

# Discoveries and Needs

## **Trip Occurs**

- Feedback loops
- Tech support (24/7)
- Trip identifiers
- Clear pathways to submission

## **Integration and Analysis**

- Validation, Compliance, and Calibration are needed before useful for management

## **Calibration and Audit**

- Notification of trips
- Pathways for VMS vs archival GPS

# Ad Hoc Discussions

- Scalability
  - Discussion of scaling up SRHS
  - 13 agents for 136 vessels or 1 agent/10 vessels
  - ~3400 vessels = 340 agents!!
  - Need alternative method for validation & compliance
- Compliance and Validation (C&V)
  - Minimum number of compliance & validation agents
  - Use technology to aid C&V (e.g., hail-out, VMS or archival GPS) but still need staff to monitor these

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# Calibration

- Calibration is a method to create a conversion factor between the data sets
  - Determines if differences in data collected is due to a change in the fishery or a change in data collection
- Best calibration occurs when programs are run side-by-side over multiple years
- Can not begin calibration until validation and compliance are in place
- Allows integration with past data collections

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# Data usage

- Short term data use:
  - Effort used to validate minimum estimates of fishing effort
- Long term goal, prior to using data:
  - Design survey(s) to validate accuracy of reports and estimate noncompliant reports
  - Multiple years of side-by-side comparisons
  - Calibration surveys to integrate with past data

# Costs

- Currently, only small amounts of temporary funding are available for implementation
- Estimates of minimal staffing and infrastructure needs for both South Atlantic and Gulf programs exceed \$5 million
- Staffing is needed for:
  - Obtaining, maintaining, and distributing data
  - Monitoring and improving compliance and validation
  - Developing statistically robust estimates of catch and effort



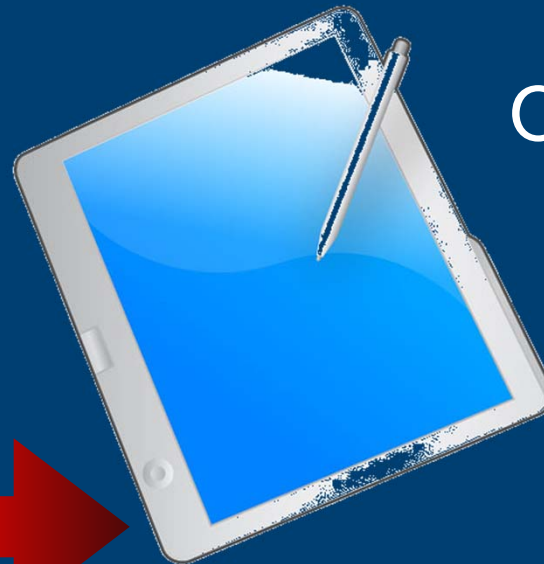
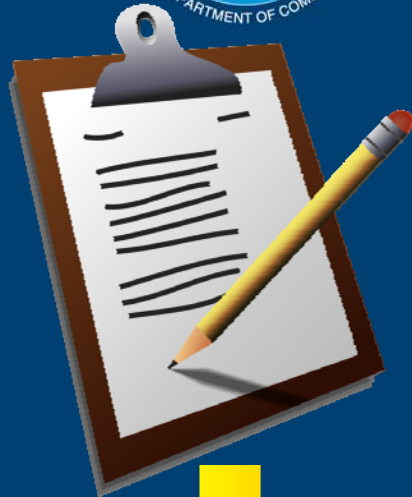
- How to report
- Program expectations
- Funding or Program costs

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# Southeast For-Hire Integrated Electronic Reporting



GMFMC  
October 2018  
Update

**NOAA  
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# Implementation Status

## Gulf Of Mexico

- Published Amendment NOA June 21, 2018
  - Approved Amendment on September 19, 2018
- Publish Proposed Rule by October 31, 2018
- Publish Final Rule ~ January 31, 2019
- Training Sessions: Feb - Mar & Aug - Sept
- Implementation Dates:
  - Phase 1 Electronic Logbook - April 15, 2019
  - Phase 2 GPS/VMS Reporting - October 1, 2019

# Updates

- ACCSP
  - Data sharing agreement in place
  - Security/privacy measures audit being conducted
  - System modifications taking place
- Finalized data elements
  - Coordination among regions/programs
  - Slight differences between charter and headboats
  - Economic questions

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# Finalized Logbook Data Elements

USCG Vessel ID	Number Kept (by species)
State Vessel ID	Number Released (by species)
Vessel Name	Area Fished
Captain Name	Latitude (Degrees/Minutes)
End Port	Longitude (Degrees/Minutes)
Trip Type	Primary Fishing Depth
Gear Code	Minimum & Maximum Depth
Trip Start Date & Time	Number of Anglers
Trip End Date & Time	Number of Crew
Fishing Hours	Trip Fee
Primary Target Species	Fuel Used
Species Caught on Trip	Price of Fuel

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# Hail-out Elements

- Vessel ID (USCG or state)
- Trip Type
- Detailed landing location
- Vessel Name
- Trip start date and time
- Estimated trip end date and time



# GPS/VMS Updates

- Pilot testing 5 GPS units (FIS funding)
  - Snapper IT Solar VMS
  - Pelagic Data System
  - Faria BEEDE Watchdog 300
  - Rock Fleet
  - Succorfish
- Pilot test period November 2018 – June 2019
- SERO developing system approval process
- SERO working with VMS reimbursement program to provide funds for VMS in SE vessels

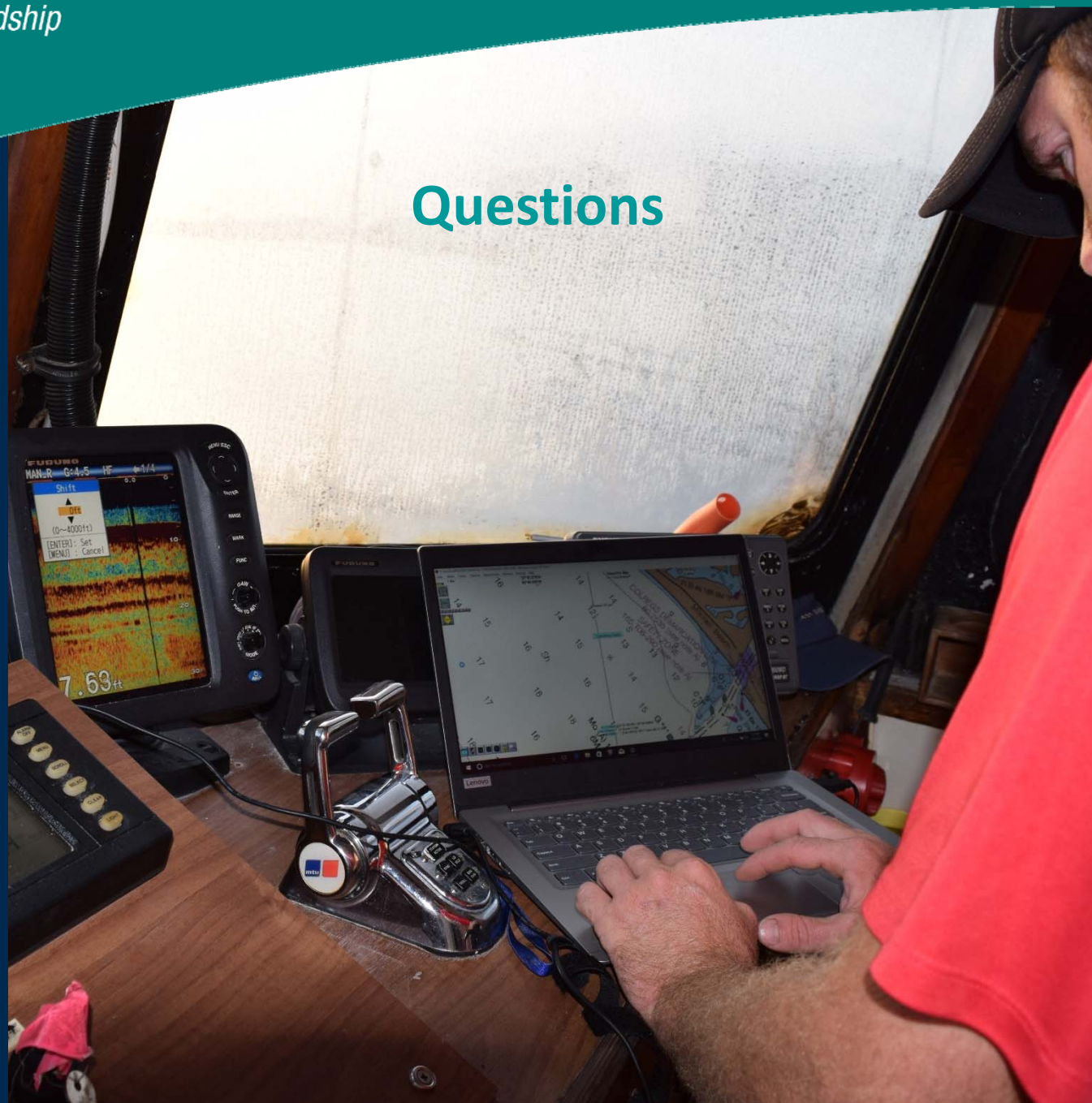
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# **NOAA FISHERIES SERVICE**

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## **Questions**



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# Additional Information on FIS and QMPSG

# Fisheries Information System Program

- Ensure easy access to comprehensive, high-quality, timely fisheries information through improvements in:
  - Data gaps and data quality
  - Technology and data integration
  - Coordination and communication for data design, collection and use
- Cross regional experiences shared through Professional Specialty Groups (PSG)
  - Quality Management (QM)
  - Electronic Reporting (ER)
  - Highly Migratory Species (HMS)
  - Access and Dissemination (AD)
- [FIS webpage](https://www.fisheries.noaa.gov/national/commercial-fishing/fisheries-information-system-program) <https://www.fisheries.noaa.gov/national/commercial-fishing/fisheries-information-system-program>

# Quality Management PSG

- QMPSG part of Fisheries Information System program, with NMFS members from all regions
- Develops and host meetings to train staff on tools that improve data collection and quality
- Goal to promote quality management and continuous improvement in NMFS
- QM includes:
  - Leadership engagement
  - Strategic planning
  - Using process improvement tools
  - Listening to the “customer”



<https://www.fisheries.noaa.gov/national/commercial-fishing/quality-management-and-continuous-improvement>