



NOAA
FISHERIES

Southeast For-Hire Integrated Electronic Reporting:

June 2019 Update

June 2019

Background

- Both the South Atlantic and Gulf Councils have approved amendments for electronic reporting in the for-hire fleet
- Combined fleet of ~3,500 federally permitted vessels
- Federally permitted vessels span from Texas through Maine
- Only ~130 vessels with existing logbook requirements
- Anticipated Benefits
 - Census-based reporting
 - Increased accuracy of data
 - Near-real time access to preliminary data
 - Reduction in recall bias



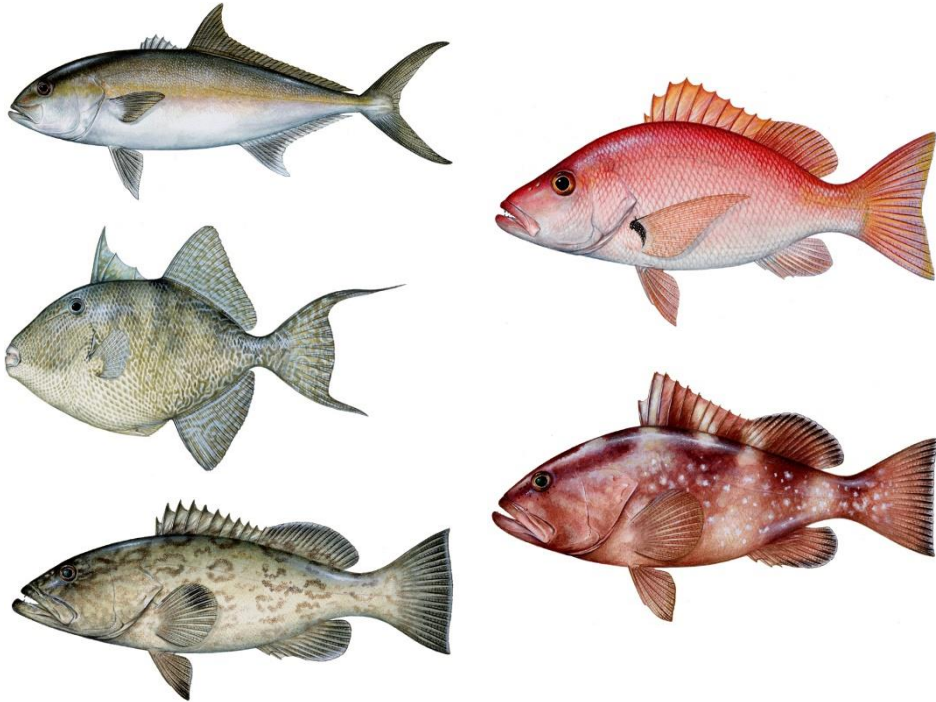
Background – Reporting Requirements

- Hail-out prior to leaving on any trip
 - Must use approved landing location
 - Can declare “out of fishery”
- Trip-level logbooks prior to offload
 - 30 min after landing if no fish
- Location device permanently affixed and on 24/7
 - 1 hour ping rate

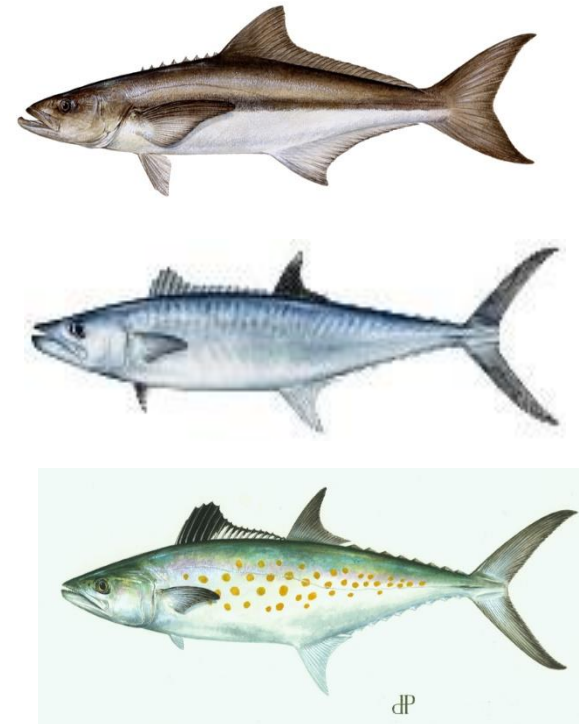


Background – Gulf Permits

Charter/Headboat Reef Fish Permits



Charter/Headboat Coastal Migratory Pelagic Permits



Background – Implementation Process (SEFHIER)

- One implementation team formed for both regions
- Large team (50+) to represent NMFS, Councils, FINs/Commissions
- Identified 6 core sub-topics
- Invited speakers during initial meetings
- Contracted a strategic planner to help develop process and documentation
- Development Plan to post soon



Data Elements



Required Data Elements – Trip Information

- Vessel ID and name
- Captain name
- Start and end date of trip
- Start and end time of trip
- Start and end location (port)



These data elements identify the trip.

Required Data Elements – Effort and Landings

- Number of anglers
- Hours fished within the trip
- All species caught
 - Number of species kept
 - Number of each species released



These data elements help estimate total effort and landings.

Required Data Elements – How Fish Are Targeted

- Target species
- Gear used
- Primary area fished
- Primary fishing depth
- Minimum and maximum depths fished



These data elements help estimate possible mortality if discarded.

Required Data Elements – Socio-economic Information

- Charter trip fee
- Estimated fuel used
- Price of fuel
- Number of Passengers
- Number of Crew



These data elements help estimate the economic effects of management decisions.

Reporting Equipment



Reporting Equipment – Hail-out

- Must be made before leaving the dock
- Reports can be made using:
 - Internet (tablet or PC)
 - Mobile phone app
 - VMS
- Can be the same device as logbook
- If Type is “Non-fishing”, will not need a logbook submission

Vessel ID

Trip Type - (Examples...Charter, Commercial, Recreational, Non-Fishing Trip)

Landing Location

Trip Start Date

Trip Start Time

Time Zone (EST/CST)

Trip End Date

Estimated Trip End Time

Time Zone (EST/CST)



Reporting Equipment – Logbooks

- Must be submitted before fish are offloaded
- Logbooks can be submitted using:
 - Internet (tablet or PC)
 - Mobile phone app
 - VMS
- Vendors must be approved specifically for this program
 - All vendors are expected to have both hail-out and logbook forms



Reporting Equipment – Location Devices

- Must at a *minimum* archive location for later transmission
 - VMS devices could also be used
- Must be approved by NMFS (VMS Program)
 - Cellular-based store-and-forward
 - Satellite-based (traditional VMS) real-time
 - Hybrid
- Some can also be used for hail-out and logbook



Reporting Equipment – Cellular Units Being Tested

| Unit | Ability to include logbook | Estimated purchase cost | Estimated monthly cost |
|----------------------|---|-------------------------|------------------------|
| Faria Bede | No | \$295 | \$25/month |
| SNAP IT | Yes | \$800 | \$40/month |
| Rock 7 | Yes | \$605 | \$17/month |
| Succorfish | Yes, with significant conversion | \$600 | \$10/month |
| Pelagic Data Systems | Can be paired with mobile app for catch reporting | \$195 | \$25/month |
| Globalstar SmartOne | No | \$300 | \$35/month |



Reporting Equipment – Current VMS Units

| UNIT | CAPABLE OF USING DROP DOWN MENU | AUTO POPULATE FORM FIRST FEW LETTERS | CREATE FAVORITES OR RECENTLY CHOSEN LIST | CONCERNS |
|----------------------|----------------------------------|--------------------------------------|--|--|
| CLS/WOODS HOLE GROUP | YES | YES | NOT YET, BUT IT IS POSSIBLE | LARGE FILE SIZE MUST BE SENT TO UPDATE UNITS |
| FARIA | YES, BUT MAY BE DIFFICULT TO USE | NO | NO | UNSURE IF UNIT IS CAPABLE OF PRODUCING USABLE SOFTWARE |
| NETWORK INNOVATIONS | YES | YES | YES | UNIT SCREEN SIZE |
| SKYMATE | YES | YES | NOT LIKELY | |
| MCMURDO / BOATRACS | NO | NO | NO | UNABLE TO ACCOMMODATE UPDATE |
| ADD VALUE IFLEETONE | YES | LIKELY YES | LIKELY YES | |

VMS Reimbursement Program

<http://www.psmfc.org/program/vessel-monitoring-system-reimbursement-program-vms?pid=17/>

Woods Hole (CLS) Charter E-Logbook Project

<https://thoriumvms.com/gulf-of-mexico-charter-e-logbook-project/>



Sticking Points



Sticking Point #1 – Economic Information

- Potential uses
 - Estimate revenue, value, and economic impacts of for-hire sector
 - Regular reports on the economics of the for-hire sector
 - Improved analysis of regulatory costs and benefits for more effective management
 - Estimate marginal value per fish for individual species or species groups
 - Quota allocation decisions
 - Disaster recovery damage assessment
- Will not be:
 - Available to the public except in aggregate form
 - Provided to the IRS without a court order



Economic Data Elements

| Charter Trip Fee (MOST IMPORTANT) | |
|-----------------------------------|--|
| Description | Total for-hire fees collected from all passengers for the charter trip. <i>Note: Charter vessels only; headboats have stable, advertised rates.</i> |
| Rationale | CRUCIAL for all economic analysis. Charter fees are the price of the service produced and traded; equivalent to price of fish in commercial sector. |
| Current Sources | <ul style="list-style-type: none">• For-hire business websites.• Old survey information. |
| Weaknesses of Current Data | <ul style="list-style-type: none">• Small sample size; infrequently conducted; always outdated.• Simple average only.• Not linked to trip characteristics; hence, variation across trips and species not captured. |

Economic Data Elements

| Fuel Used | |
|-----------------------------------|---|
| Description | Estimated gallons of fuel used on the trip. |
| Rationale | Used to calculate fuel cost and net operating revenue. |
| Current Sources | <ul style="list-style-type: none">• Old survey information. Note: Could deduce from vessel characteristics and GPS. |
| Weaknesses of Current Data | <p>Less accurate than direct capture.</p> <ul style="list-style-type: none">• Small sample size; infrequently conducted; always outdated.• Simple average only.• Less accurate than direct capture. |

Economic Data Elements

| Fuel Price | |
|-----------------------------------|--|
| Description | Price per gallon for fuel used on the trip. |
| Rationale | Used to calculate fuel cost and net operating revenue. |
| Current Sources | Regional averages available from U.S. Energy Information Administration. |
| Weaknesses of Current Data | Less accurate than direct capture. Averages ignore localized differences in prices, as well as grade of fuel. |

Economic Data Elements

| Number of Passengers | |
|----------------------------|---|
| Description | Total number of <u>paying</u> passengers on the trip. |
| Rationale | Used to calculate price per person. |
| Current Sources | <ul style="list-style-type: none">• Old survey information.• SRHS logbooks for headboats. |
| Weaknesses of Current Data | <ul style="list-style-type: none">• Small sample size; infrequently conducted; always outdated.• Simple average only.• Variation across trips not captured. |

Economic Data Elements

| Number of Crew | |
|----------------------------|---|
| Description | Total number of crew on the trip, including captain. |
| Rationale | Used to calculate labor cost and net operating revenue. |
| Current Sources | <ul style="list-style-type: none">• Old survey information.• SRHS logbooks for headboats. |
| Weaknesses of Current Data | <ul style="list-style-type: none">• Small sample size; infrequently conducted; always outdated.• Simple average only.• Variation across trips not captured. |

Sticking Point #2 – Equipment Failure

- Logbooks and Hail-outs
 - Have a backup - multiple options are available (tablet, PC, cell phone)
 - Phone home!
- Location Devices
 - In the commercial sector, VMS failure rate is around 1%; life of VMS unit is 5-10 years (depending on brand)
 - NMFS is considering development of a trouble-shooting guide
 - NMFS is working towards a solution that balances validation and compliance against fishermen's ability to earn their income
 - Currently do not have funding for call service
 - We hope to work with our state partners for some solutions



Sticking Point #3 – Landing Notification Modifications

- Regulations require an estimate of the landing time not a time-window
- VMS will have an option to submit a new hail-out with the modified landing time or location, similar to the commercial IFQ program
- NMFS is working on a procedure for new submissions for cellular units
- Under any emergency condition, the captain should return without worrying about the hail-out and contact their local law enforcement when it is safe to do so



Sticking Point #4 – Requirements for Inactive Permits

- Logbooks
 - The location device will allow NMFS to know if a vessel has not left the dock and no logbook will be expected
 - If the vessel is carrying out non-fishing activities, the captain will state that in the hail-out, and no trip report will be expected
- Location devices
 - Power-down exemptions allow the units to be turned off as long as the vessel will not leave the dock (minimum 72 hours)
 - NMFS is considering long-term exemptions for vessels that will not be operating during the year



Sticking Point #5 – Loss of GPS/Satellite Signal

- Covered storage
 - For appropriate validation of effort, the units must either have a power-down exemption or be turned on and functional
 - Cellular-based units should work anywhere cell phones work
- Battery drainage
 - Many commercial fishermen have smaller vessels with VMS units that do not drain batteries
 - Solar options may be available that can store power for up to 2 weeks



Sticking Point #6 – Species/Trip Type Subject to Reporting

- Federal permit holders must comply with federal reporting requirements, regardless of where they fish, as a condition of holding the permit
- Catch data may be shared with state agencies that have non-disclosure agreements with NMFS
- NMFS is refining a species list to include specific federal and state managed species; other species are grouped for simplicity
- Depending on the device used for logbooks, a drop-down list, favorites list, or auto-fill option may be available
- When large quantities of baitfish are caught, estimates are acceptable
- If the vessel is carrying out non-fishing activities, the captain must hail-out declaring a non-fishing trip, but does not need to submit a logbook

Timeline



Timeline



Amendment Comment
Period: July-August 2018

Secretary of Commerce
Approval: September 2018

Proposed rule: October 2018

NOAA Comment Period
Ended: January 9, 2019

Final Rule in development

Implementation



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Timeline – Challenges



- Funding/staffing
 - No dedicated funds or staff for implementation, validation, etc.
 - FIS grants – short-term contractors
 - Current staff are not subject matter experts in many of the areas needed
 - Outside participation restricted by FACA:
 - Groups are needed to advise for expert advice, ideas, and diverse opinions, but...
 - Groups should only be formed when essential and kept to a minimum
 - No advisory committee shall meet or take any action until an advisory committee charter has been filed;
 - Does not apply to Council, SSC, or AP meetings, but would apply to state participation on the implementation plan



Timeline – Challenges



- Data storage, transmission, and sharing
 - NOAA security requirements – approval for ACCSP, other vendors
 - Protection of PII and BII – algorithm, encryption
 - Multiple data streams to combine – hail-out, logbook, location devices
 - Integration of differing regional and state systems
- Hardware/software approval – logbook and location devices
 - Technical specifications
 - Responsible party – region vs. VMS Program
 - Codifying process – involves proposed and final rule

Timeline – Challenges



- Processes to develop
 - Notification to enforcement
 - Exemptions
 - Data sharing with states - MOUs
- Coordination with South Atlantic
 - Consistent data elements
 - Vessels with permits from both regions
- Paperwork Reduction Act requirements
 - All forms must be approved

Questions?



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