

Key Findings of the MRIP For-Hire Electronic Reporting Pilot Study in the Gulf of Mexico



Gulf of Mexico Fishery Management Council Meeting

April 17, 2013

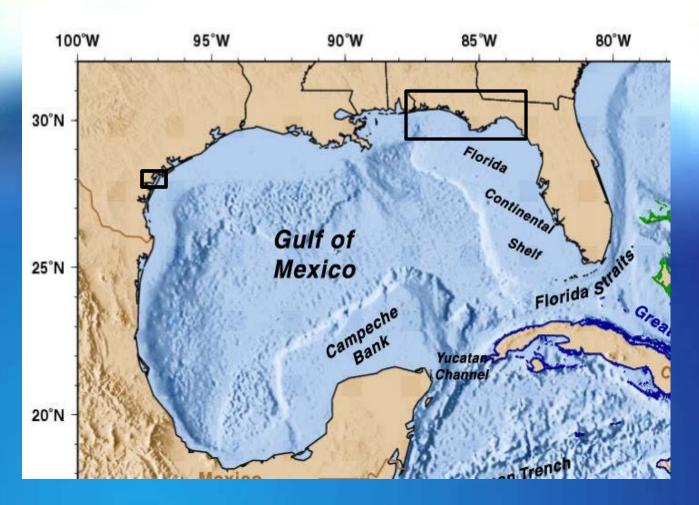
Gulfport, MS







Study Area:



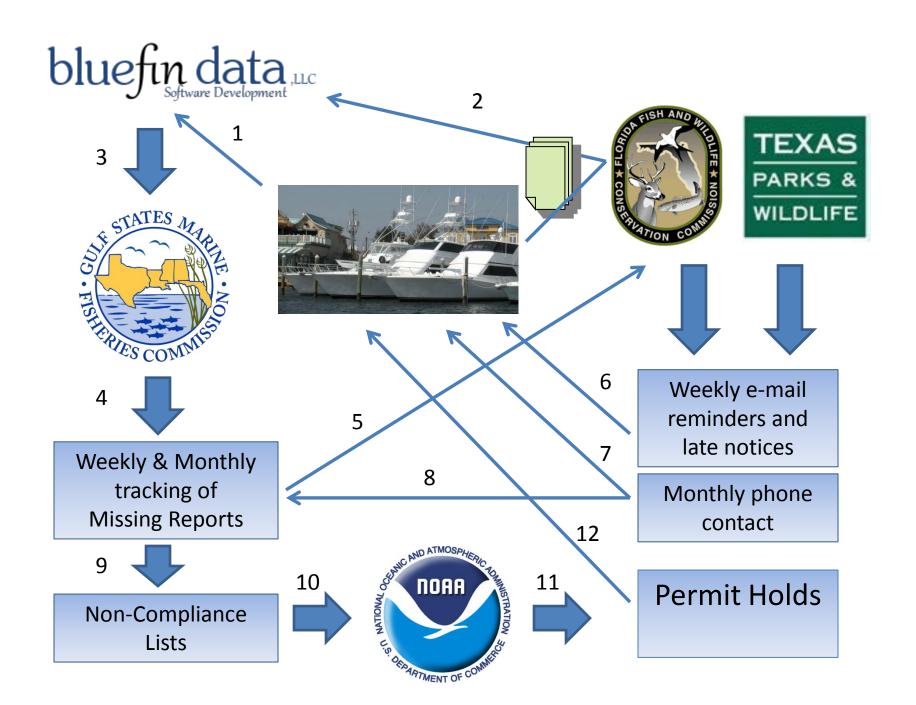
Charter vessels with Federal Permits: Northwest FL: ~350 vessels

Corpus Christi, TX: 60 vessels

Study Design

- Required for permit renewal
 - Weekly reporting
 - Fishing week = Mon Sun
 - Deadline = following Sunday
- Self-Reported Data
 - Validated and "validatable"
- Keep it simple!





Validation Methods

Fishing Effort

- Sites clustered into regions
- Randomly select regions each week
- Validate every vessel at every site in selected region



Validation Methods

Dockside Validation of Catch

- Random site selection PPS sample
- Interview all returning vessels
- Directly observe harvest
 - Count, weigh, measure
- Interview vessel operators
 - Discards
 - Number of anglers
 - Hours fished



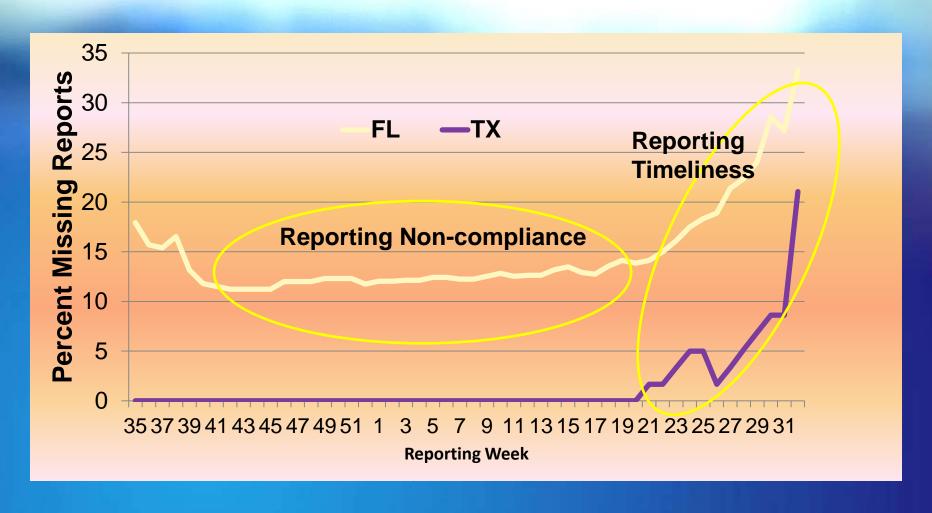
Validation Methods

At-Sea Validation of Catch

- Random vessel selection
- Directly observe discards



Reporting Compliance and Timeliness



Sept. 2010 ----- August, 2011

Reporting Tools

Key Findings:

- Paper and electronic reporting options without quality controls require more error checking and follow-up
- At-sea data recording options would give more flexibility, reduce recall bias

- Require electronic reporting
- Must have built-in quality controls
- Should allow for data entry at-sea

Enforcement

Key Findings:

- Current legal authority to enforce reporting requirement is inadequate for receiving timely reports
- Delinquent vessels may continue to fish until their permit is up for renewal
- Permit holders allowed to submit all of their delinquent reports at time of expiration and then renew for another year

Recommendations:

Timely reporting should be required and requirement should be enforceable

Enforcement

Recommendations:

Authority for enforcing reporting requirements be modified to enhance timeliness of reporting - include permit suspension, permit termination and civil penalties



Reporting Compliance and Timeliness

- Not a complete census
- Compliance would have continued to improve
- Would still have to account for misreporting
- Daily reporting would help to identify missing reports
- Continuous effort required to maintain compliance and timeliness

Reporting Compliance and Timeliness

- Early stakeholder input
- Early outreach



- Must have methods to quickly ID missing/late reports with timely follow-up procedures
 - Multi-tiered approach
- Report inactivity/activity each day in a reporting week



Reporting Frequency

- Daily reporting not necessary to produce good catch and effort statistics
 - Effort/cost required to maintain compliance with timely follow-up procedures would be much greater
 - Cost would be greater if certifying accuracy at individual vessel level
- Decreased reporting frequency (biweekly, monthly) would increase recall bias, not recommended



Reporting Frequency

- Selected reporting frequency and required reporting accuracy should be considered both in terms of cost and necessity for management/ assessment before implementing a region-wide logbook reporting program
- Weekly reporting frequency combined with a daily reporting requirement is recommended as the most feasible both in terms of cost and minimizing recall bias for a census

Validation and Estimation

- Logbook reporting resulted in high coverage (~70% of validated trips were reported)
- Self-reporting is subject to recall bias and inaccuracies
- Aggregated logbook data potentially useful for estimating total effort, CPUE, and total harvest on a regional scale
- Monthly and bi-monthly estimates are feasible Recommendations:
- Work with a statistician to develop estimators
- Further research to account of sampling bias needed

Field Validation

- Logbooks and field validations were not closely matched
- Small validation monitoring program will not be sufficient



- Effort validation is least costly method
- Dockside validation of catch is intermediate cost, but not effective for validation of discarded catch
- Demonstrated feasibility for at-sea validation
 - More costly, but provides high quality data
 - May be used to develop independent estimators for discards

Field Validation

- Validation methods need to measure and account for incomplete reporting
- For harvested catch, use combination of dockside and atsea validation methods
- For released catch, incorporate some type of at-sea validation methodology



Feasibility for Regional Implementation

- Given adequate resources and long-term funding commitments, logbook reporting would be feasible for a large geographic area
- May not be feasible for small states with small number of vessels
- Regional implementation would also have to consider whether to include vessels without federal permits
 - Consider authority to require reporting
 - Guide vessels may be difficult to validate

Feasibility for Regional Implementation

- Large scale implementation should be phased in so adequate resources can be focused on upfront efforts for outreach and follow-up with non-respondents
- Regional program exclude nonfederally permitted vessels
- Need complete universe of known vessels before implementation



Next Steps

- Final report complete
 - Provided to MRIP
 - Approved by Operations Team and Executive Steering Committee



- Report provided to MRIP
- Awaiting final approval to determine next steps



QUESTIONS?