



NOAA
FISHERIES
SEFSC

SEFSC Commercial Electronic Logbook Reporting

David Gloeckner
Fisheries Statistics Division
Southeast Fisheries Science Center

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What do we collect on a logbook?

- When you fished-Trip start, trip end
- How long you fished-Hook hours, soak time, trawl duration
- How you fished-Gear, configuration, number, length
- Where you fished-Lat/Lon, ten minute square, fishing grid,depth
- What you caught-Species
- How much you caught-Total catch by weight or number
- How much you threw back-Discards
- How much the fishing cost-Trip expenses (ice, bait, etc.)
- How much catch you sold-Landings
- How much money you made-Revenue

How do we use logbook data?

- Indices of abundance-expressed as catch per unit effort-CPUE
- Discards-as part of the catch in CPUE (discard rate x total effort)
- Dead discards (discards x mortality rate), which are included as part of the total removals
- Home consumption of part of the catch-also part of total removals
- Economic information used to determine management impacts on fisheries participants or weather related economic impacts on communities.

Why move to e-reporting from paper?

- Do we manage ACLs with real-time logbook data?
- Do ACLs include dead discards from logbooks?
- Do federal permit holders along the Atlantic coast have redundant logbook reporting requirements?
- Are there data quality problems with paper reports that could be improved with e-reporting?
- Could e-reporting improve the timeliness of communication to fishers regarding compliance?
- Can 20th century data collection methods meet the needs of 21st century science?

SEFSC development of e-logbook

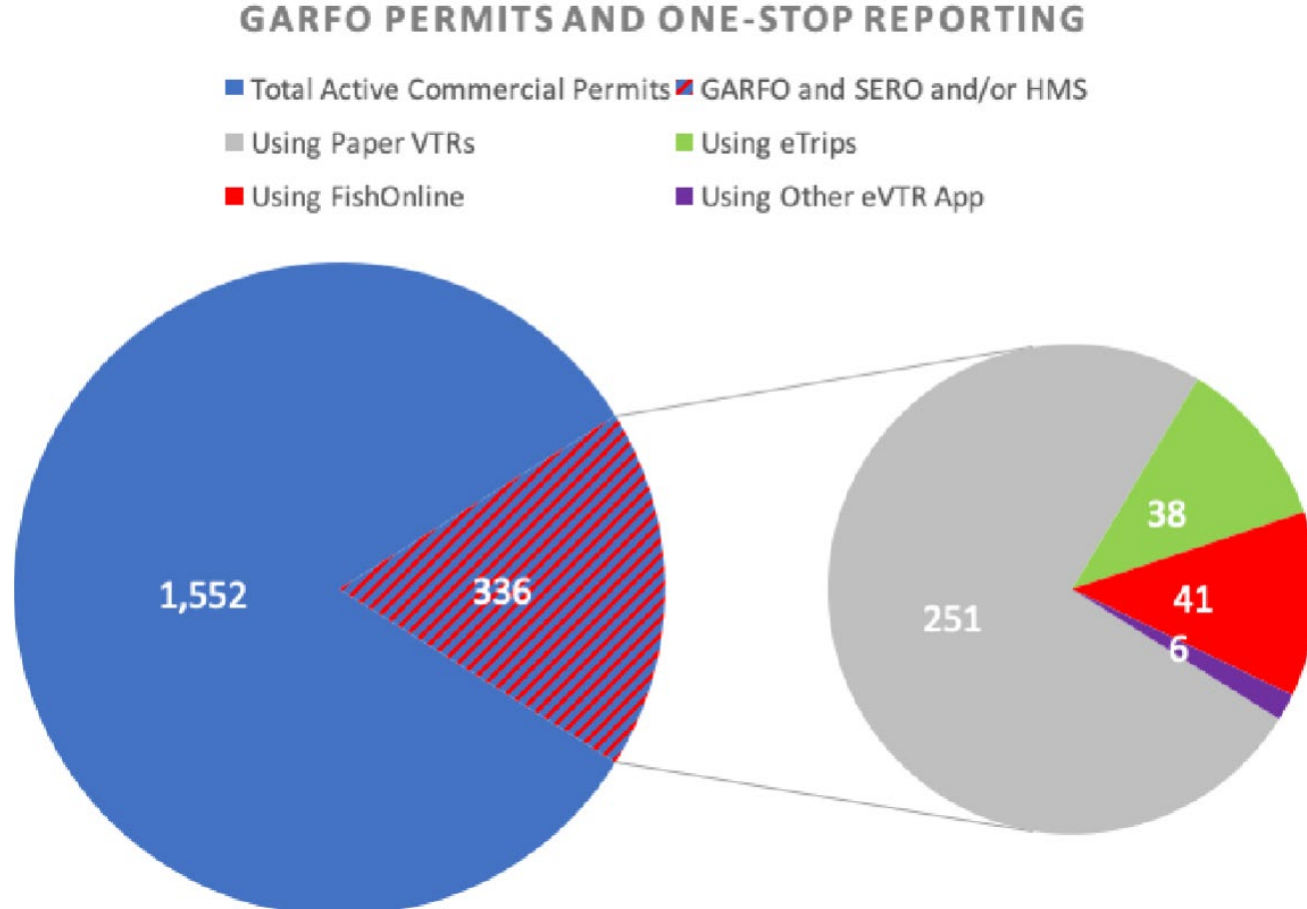
- May 2015-Jan 2016 Pilot project to establish possible hardware/software to support e-logbooks
- 8 laptops and 3 iPads were deployed on a total of 12 vessels, with one utilizing existing on-board PC. 58 trips submitted
- Gears used included bandit, hand line, longline (reef and pelagic), buoy, and trap (fish). 3 of the vessels were mixed gear.
 - 6 South Atlantic
 - 5 from North Carolina
 - 1 From Florida
 - 2 HMS
 - 1 South Florida (buoy, trolling)
 - 1 North Carolina/Mass. (longline)
 - 4 Gulf
 - 2 Florida (reef longline/hand line)
 - 2 TX (bandit)
- Fishermen provided regular feedback on eLog use
 - Including feedback on hardware use, software use, and the overall experience in collecting and submitting data

Pilot Findings

- Results showed some changes to data collection standards were needed
 - Most Gear types can facilitate set-based reporting. Hand line and cast net scaled back to sub-trip reporting (24 hours).
- Hardware issues were a major concern for fleet
 - Small and/or exposed cabins and relatively small crews create the need for smaller laptops and tablets that can be weatherized and integrated into current fishing methods.
- Large increase in quantity and quality of catch/effort data above current logbook methods
 - Catch/effort data logged over multiple days likely with multiple sets each day
 - Reports contained finer spatial and temporal data generated automatically by eLog.

HMS logbook was most comprehensive of logbooks managed by SEFSC, so worked with ACCSP to develop a version for volunteers with a SE/HMS permit...until now

Urgency to support dual GARFO/SERO/HMS permit holders



GARFO e-reporting implements November 10. eTrips software will have to accommodate SERO and HMS reports to avoid duplicate reporting.

November launch will have available the same variables collected on HMS or SERO paper logbook.

Commercial Electronic Logbook available for SERO and HMS permits

- We anticipate that on or around November 10, software will be available from ACCSP to report electronically in lieu of submitting paper reports.
- This is intended to reduce duplicate reporting and partially deals with data quality improvements as a result of e-reporting.

Common errors and e-log resolution

Validation statistics for paper logbooks and surveys :
2014 – current

Invalid Entry = 59% -look up table

Missing fields = 40% -missing value warning

Values out of expected range = 30% -range warnings

Number format type = 9% -format warning

Dates/times do not add up = 8% -logic warning

*Note: a single mix-up can trigger several of these errors at once

2020 SE COASTAL FISHERIES TRIP REPORT FORM Use Black Ink only!

Signature: _____ Phone No. () - _____ Schedule No. **NMFS Use Only**

Vessel Name: _____ Trip Start Date: MM DD YY _____ County or Parish: _____ State: _____

Vessel No.: _____ Trip Unload Date: _____ Dealer Name: _____

Operator Name and Number: _____ Days at Sea: _____ No. of Crew: _____ SE Federal Dealer Number: _____

State Trip Ticket No.: _____ Check box if landings sold to multiple dealers: Yes

GEAR SECTION: See Instructions on Page 2. Check gear box and fill in all the boxes below.

Traps (T)	Longline(L)	Gill Net (GN)	Drift Net (DN)	Hook & Line (HL)	TR (T)	Divers (D)	Other Gear (O)
Trap #	# Sets	# Sets	# Lines	# Hooks	# of Divers	Type	
# Traps Used	# Hooks per Line	Length (yards)	# Hooks per Line	Total Hrs. Fished	Total Hrs. Fished	Total Hrs. Fished	
Trap Soak Time (hrs.)	Set Soak Time (hrs.)	Depth (yards)					
Total Soak Time (hrs.)	Total Soak Time (hrs.)	Set Soak Time (hrs.)					
		Length (meters)					

Date Received: _____ NMFS Use only

CATCH SECTION: See Instructions on Page 4.

Weight: Record POUNDS kept gutted or whole (DO NOT include fractions of pounds).
Gear: Record gear used for MAJORITY of catch as T, L, GN, H, E, TR, B, S, P or O. Do not use multiple gears.
Area: Areas can be found on maps in logbook (page 6). Do not use state area codes.
Depth: Record bottom depth where the MAJORITY of fish were caught in FEET.

Species Name	Code	Gutted-lbs	Whole-lbs	Gear	Area	Depth	Species Name	Code	Gutted-lbs	Whole-lbs	Gear	Area	Depth
Amberjack-Great	1812	#	#				Jolthead	3312	#	#			
Amberjack-Lesser	1815	#	#				Knobbed	3308	#	#			
Almaco	1810	#	#				Red	3302	#	#			
Banded Rudder	1817	#	#				Whitebone	3306	#	#			
Chevalle	0870	#	#				Blacknose	3485	#	#			
Cobia	0570	#	#				Blacktip	3495	#	#			
Dolphin Fish	1050	#	#				Sommethead	3483	#	#			
Black	1422	#	#				Bull	3497	#	#			
Gag	1423	#	#				Dogfish, Smth	3511	#	#			
Wanau	4740	#	#				Finetooth	3481	#	#			
Red	1416	#	#				Lemon	3517	#	#			
Scamp	1424	#	#				Sandbar	3513	#	#			
Snowy	1414	#	#				Shargnose, Ad	3518	#	#			
Yellowedge	1415	#	#				Blackfin	3757	#	#			
Yellowfin	1426	#	#				Lane	3781	#	#			
Hind, Red	1413	#	#				Mangrove	3762	#	#			
Hind, Rock	1412	#	#				Mutton	3763	#	#			
Hind, Spotted	1411	#	#				Queen	3770	#	#			
Bluestriped	1444	#	#				Red	3794	#	#			
French	1445	#	#				Silk/Yelloweye	3756	#	#			
White	1441	#	#				Vermilion	3765	#	#			
Margate	1442	#	#				Yellowtail	3767	#	#			
Margate, Black	1443	#	#				Triggerfish, Gray	4561	#	#			
Ornate, Unc	1440	#	#				Triggerfish, Ocean	4562	#	#			
Hogfish	1790	#	#				Triggerfish, Queen	4563	#	#			
King Mackerel	1940	#	#				Tilefish, Gray	4474	#	#			
Spanish Mackerel	3840	#	#				Tilefish, Golden	4470	#	#			
Wahoo	4710	#	#				Sea Trout, White	3455	#	#			
Black Sea Bass	3360	#	#				Little Tunny	4653	#	#			
Bluefish	0230	#	#				Barracuda	0180	#	#			
Blue Runner	0270	#	#				Hake	1550	#	#			

TRIP EXPENSE SECTION: See Instructions on Pages 4-5 REQUIRED FOR SELECTED VESSELS. Enter "V" for no expense or n/a.

Owner: Yes No Gallons of Fuel Used on This Trip: _____ Price per Gallon: \$ _____ Fuel Expense: \$ _____ Ice Expense: \$ _____

Operator: _____ Misc. Trip Expenses: \$ _____ IFQ Allocation Purchased for This Trip: \$ _____

Grocery Expense: \$ _____ Total Expense: \$ _____

Has the payment for your catch been determined? Yes No If Yes, Trip Sales (Revenue): \$ _____ Expense for HRED Crew & HRED Captain, if any: \$ _____

RETAIN THIS COPY FOR YOUR RECORDS

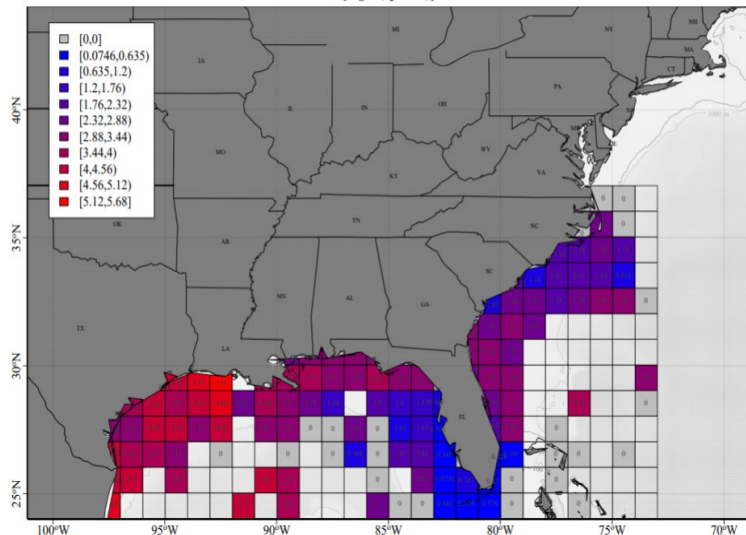
SEFSC e-logbook update to reporting requirements

- Still need to discuss improvements in science that can be facilitated with this technology, while not increasing burden or actually decreasing burden.
- The logbook data is used in similar ways to provide information to stock assessments, so why the confusing differences between the SE, NE, and HMS logbooks?
- NMFS offices plan to meet in mid-October to discuss streamlining logbook variables to simplify reporting.

SEFSC e-logbook update to reporting requirements

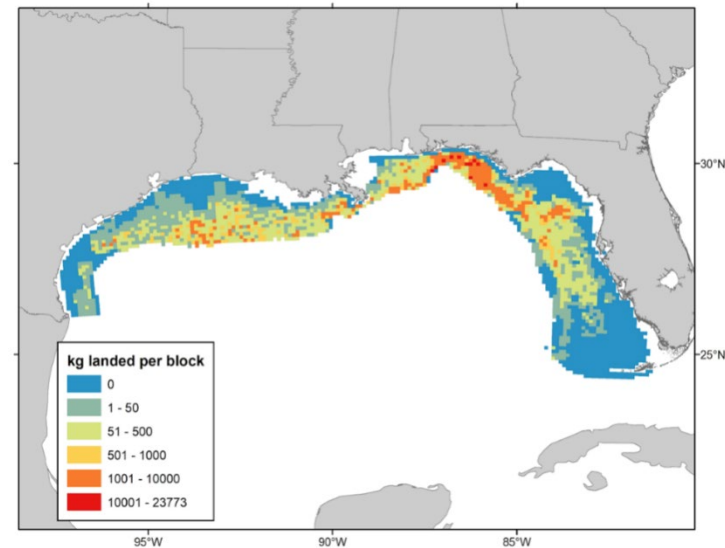
- SEFSC will consult with GMFMC and SAFMC as NMFS looks at alternatives for improvement of logbook data using e-reporting technologies
- Primarily identifying changes in the scientific need for high resolution location information and modifications to improve compliance.

Lutjanus campechanus
[log10(cpue+1)]



Southeast Regional Headboat Survey Catch
Records (SEDAR 74)

Example: Gulf Red
Snapper



Estimating commercial catch in space
(Great Red Snapper Count)

Consolidate SEFSC suite of commercial logbooks

SEFSC Commercial Logbooks

- Coastal (South Atl. and Gulf)
 - Wreckfish
 - HMS
 - Golden Crab
- Menhaden (future)

SEFSC Commercial Surveys

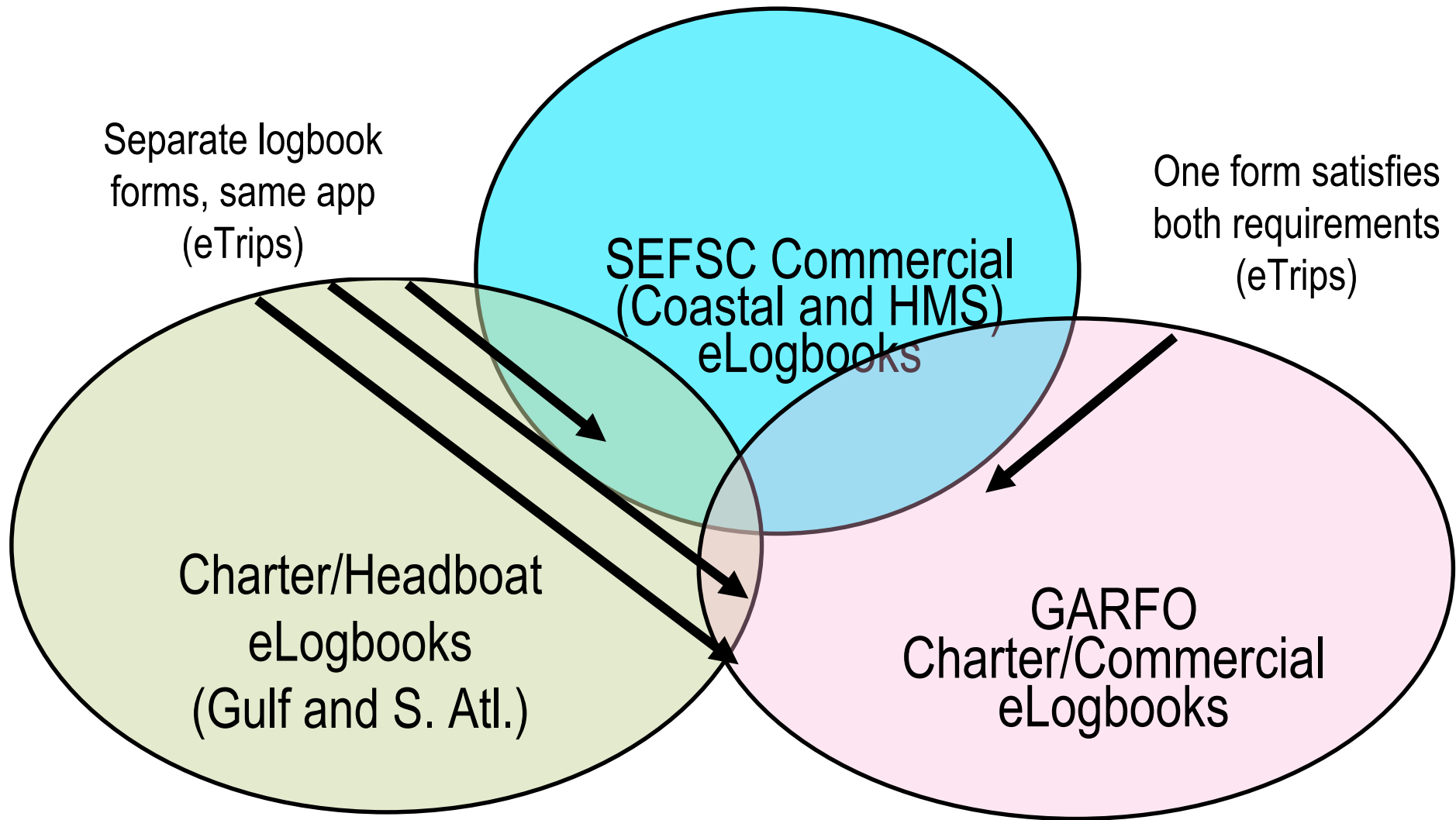
- Discards
- Economic

No Fishing Reports

SEFSC eLogbook

- Mobile (current)
- VMS Forms (Potentially in the future)

Incorporating SEFHIER/Headboat is a much larger lift



Current plan for moving forward

Scientific needs not being met by current requirements

+

Need to balance and clarify reporting burden

Need to consider One Stop Reporting for all fisheries

Workshops/Outreach

- Reef Fish AP
- Coastal Migratory AP
- Data Collection AP
- HMS AP
- SERO OUTREACH Team

Implement current requirements electronically

Joint Resolution (Gulf and South Atl)
And HMS and Mid Atl. Council

Need testing to improve available software

Volunteers: Recruit commercial fishing permit holders to voluntarily submit their fishing reports electronically.

Potential application developers: All eLog mobile applications will need to reflect SEFSC Reporting and Technical requirements before approval.

Report for Pilot Project is in the NOAA Research Publication Tracking System review process (available soon!)

Current Fisheries Electronic Reporting at SEFSC

- Fishers can now register and submit No-Fish Reports electronically
- SEFSC no longer accepts faxed or emailed No-Fish Reports
- All No-Fish reports need to be mailed or submitted through FER website



Summary

- Re-evaluation of certain reporting elements
- Completion of ACCSP reporting app (pending) for short term allowance of dual-permitted users to submit current logbook elements electronically.
- Ongoing discussions with Gulf and South Atlantic Councils and other NMFS offices about scientific needs and need to streamline reporting to reduce burdensome duplication.
- Recruitment of volunteers (Southeast commercial permit holders)
- Account creation tools for new users can now accommodate business or LLC permit holders



Questions?

