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FISHERIES
SEFSC

Finfish Commercial Logbook Reporting: Considerations Related to the Potential Applicability of this System to Shrimp Effort Collection

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Outline

How could a logbook fit into Gulf shrimp fishery management needs?

What permits are currently required to submit SEFSC logbooks?

What information does the SEFSC consider for Logbook trip reports?

What type of information is eTrips best equipped to collect?

What might an electronic logbook look like for trawl gear(s)?

Gulf Shrimp Analytical Requirements

4 types of shrimp data are required to complete a wide array of SEFSC/SERO outputs, including regulatory requirements & annual Council & industry requests:

- 1. Effort data (cELB)**
- 2. Bycatch rates (Observers)**
- 3. Landings data (Trip tickets)**
- 4. Additional data, for economic and regulatory analysis (Annual economic, gear, and landings surveys)**

How could a logbook fit into Gulf shrimp fishery management needs?

Area specific CPUE is required for BiOp and red snapper bycatch analyses, which was supported by cELB

Logbooks can be used to collect:

1. Effort data by area ☒
2. Trip specific landings data ☒

* Additional data, for economic and regulatory analysis can also be collected in a logbook

Logbooks reported to SEFSC: Gulf, South Atl, and HMS

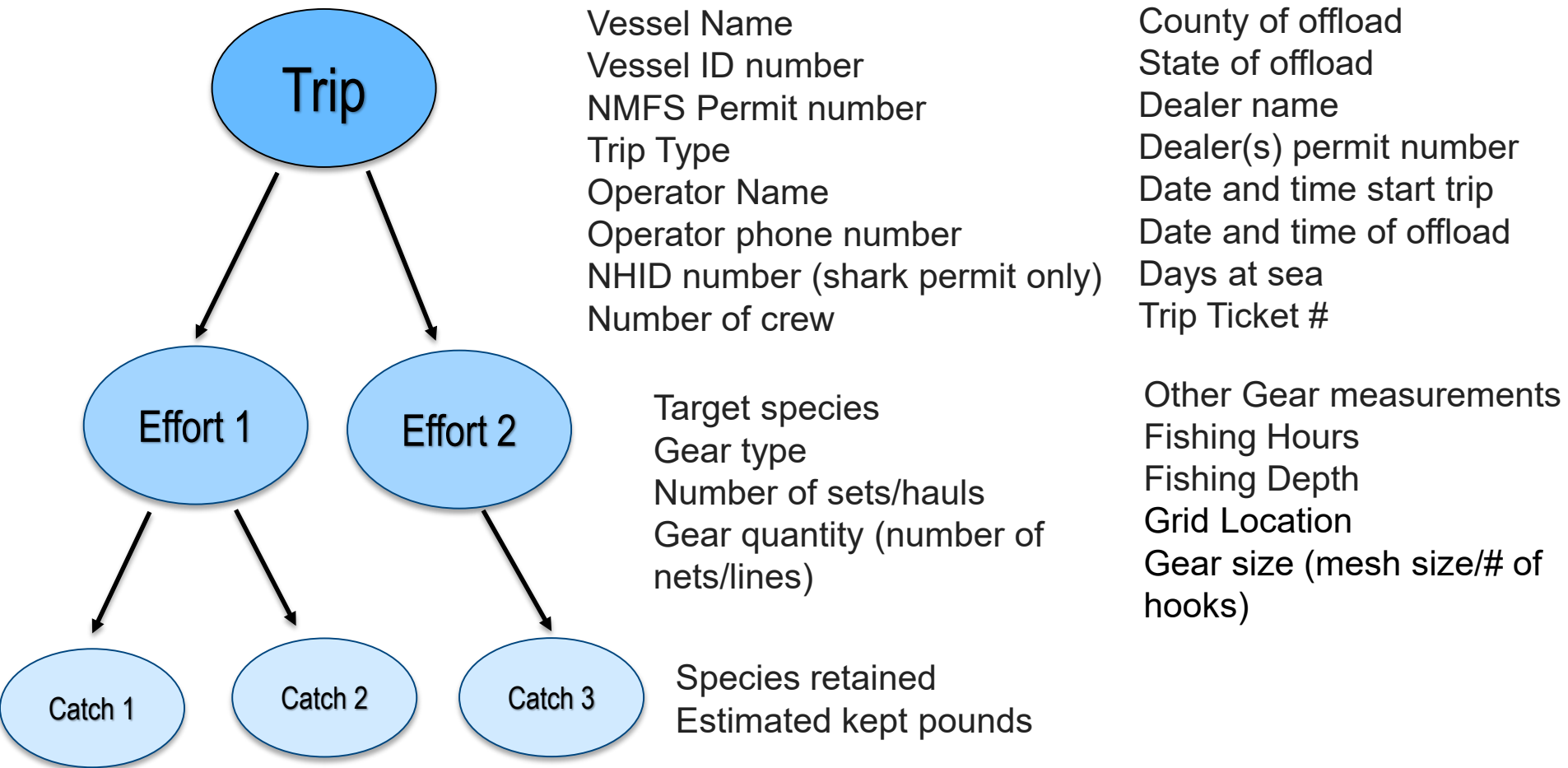
Permit Code	Permit	total count
ADW	Atlantic Dolphin/Wahoo Commercial	2133
GN	Gillnet for King Mackerel	16
KM	King Mackerel	1262
RR	Gulf of Mexico Reef Fish Commercial	738
RRLE	Eastern Gulf Reef Fish Bottom Longline Endorsement	58
SBPE	South Atlantic black sea bass pot endorsement	60
SG1	South Atlantic Snapper Grouper (Unlimited)	481
SG2	South Atlantic Snapper-Grouper (225lb Trip Limit)	90
SKD	Shark Directed	188
SKI	Shark Incidental	216
SM	Spanish Mackerel	1770
GTFE	South Atlantic golden tilefish longline endorsement	22
ATL	Atlantic Tuna Longline	220
SFD	Swordfish Directed	161
SFH	Swordfish Handgear	71
SFI	Swordfish Incidental	58

SE Coastal:
trip-based
(one logbook
for all permit
types)

HMS:
set-based
(one logbook
for all permit
types)



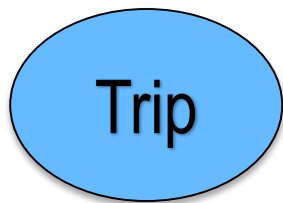
Paper SEFSC Logbook Trip Reports for all species caught on federally permitted vessels



Effort information required is highly variable depending on the gear and permit. HMS permits must report Lats and Longs for every set, but SE permits report total time fished for the trip.

Electronic Logbook users will have the ability to log multiple fishing events and offload/sale events. *It does not passively collect location information.

Portion (20%) of fleet asked to report discards and economic survey questions for each trip:



Additional
Economic
Questions:

Owner Aboard?

Gallons of Fuel Used

Price of Fuel

Price of Bait

Pounds of Bait

Cost of Ice

Cost of Food

Cost of Lightsticks

Cost of Miscellaneous

Cost of IFQ

Total Revenue for Trip

Total Payment for Crew

Pay Percent to Captain

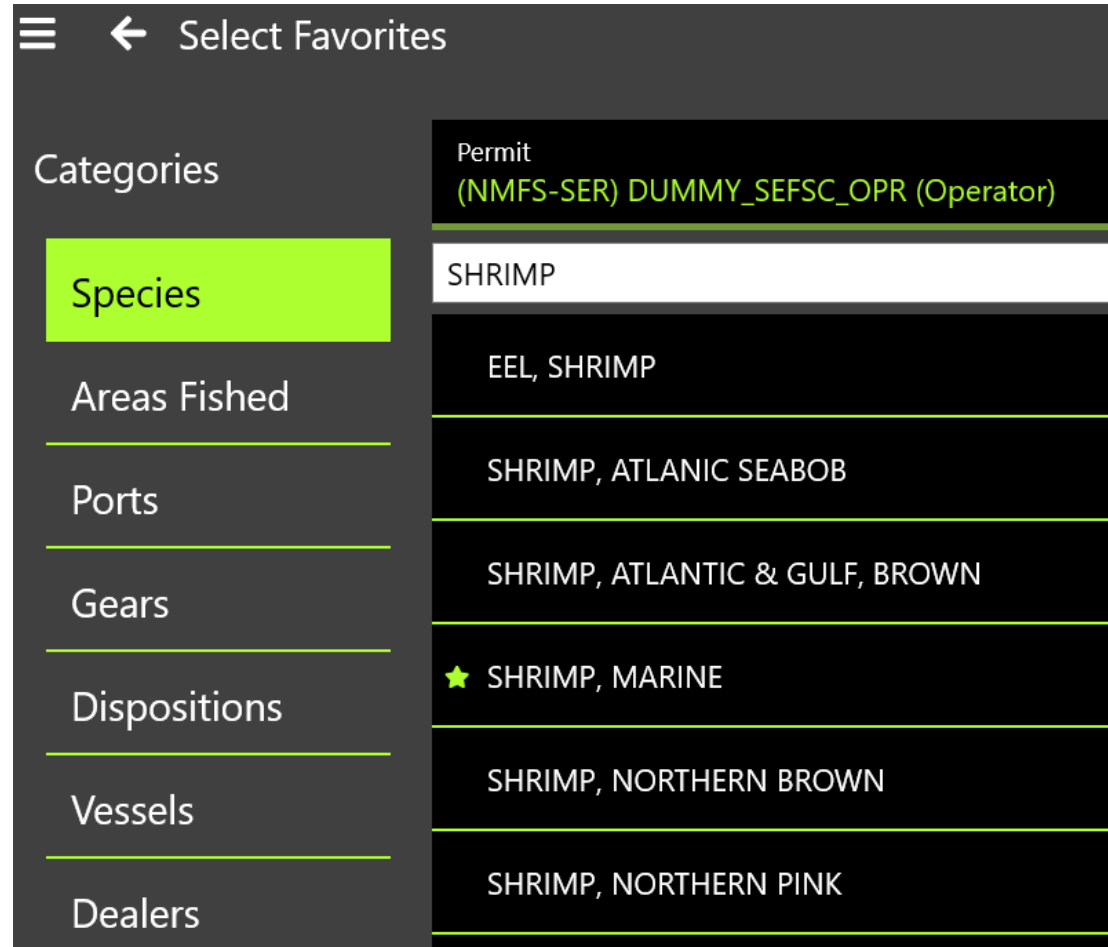
Pay Percent to Crew

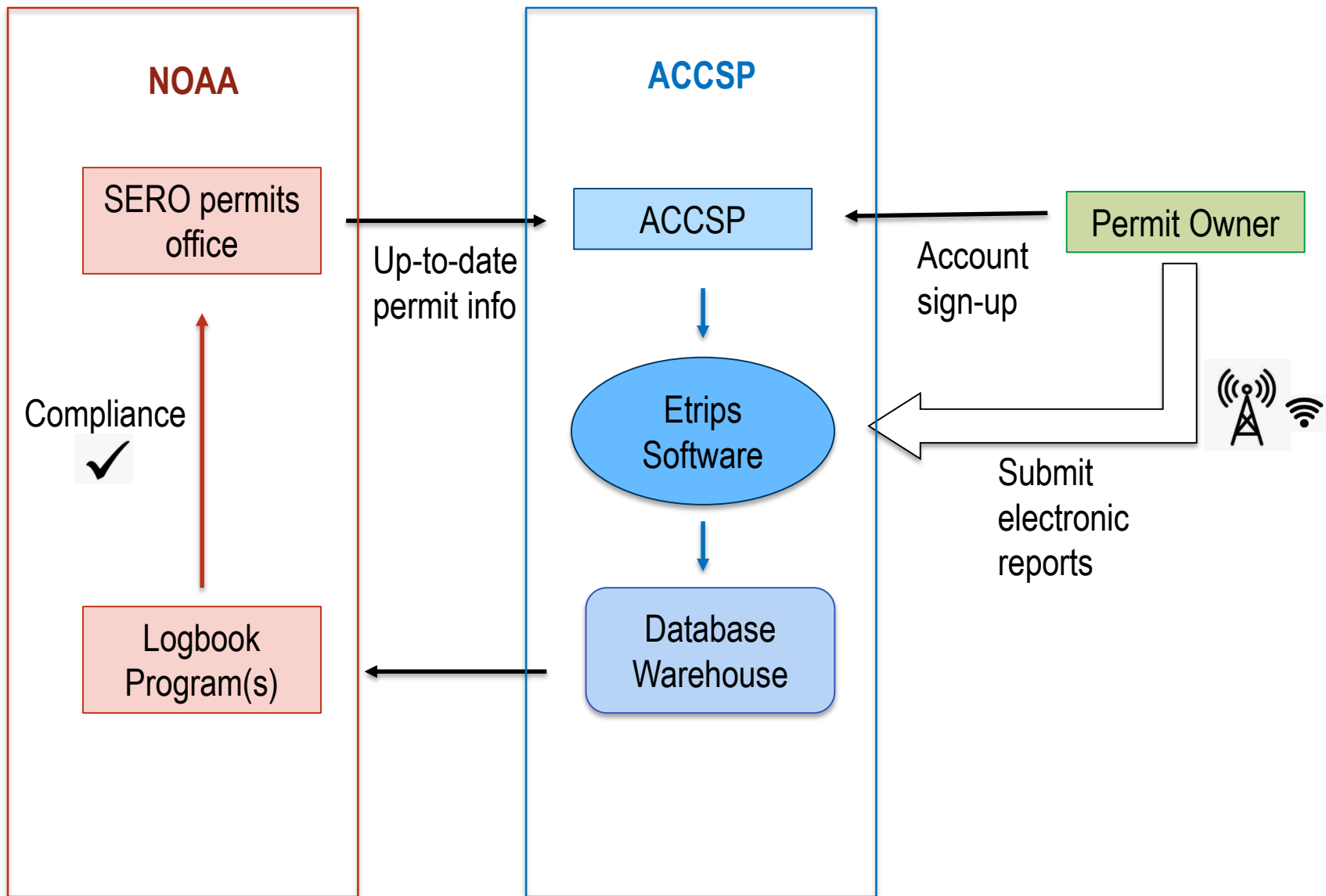
Pay Percent to owner



The Atlantic Coastal Cooperative Statistics Program (ACCSP) and its contractor, Harbor Lights, create and maintain the eTrips eLogbook software and the associated data warehouse.

eTrips is mostly designed to collect information that the user enters or selects from a drop down list. Favorites can be set up for most drop down lists

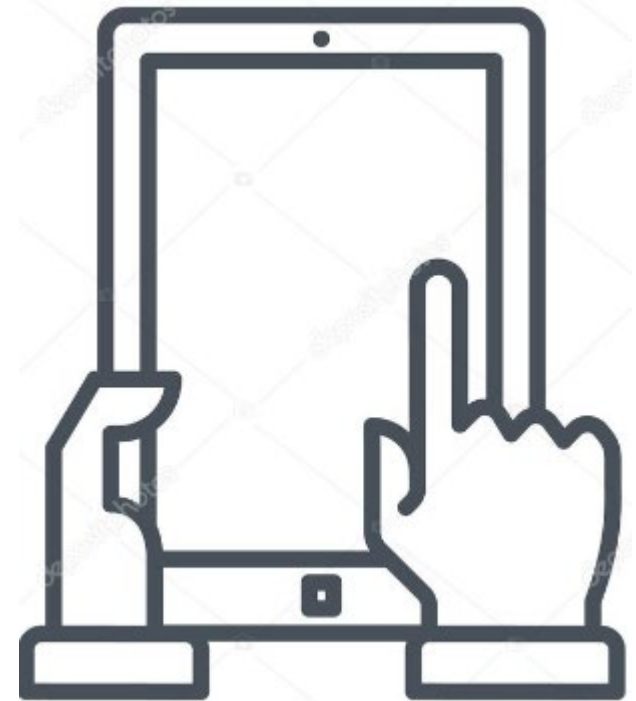




eTrips runs on:

- Cellphone – wifi or cell service
- Tablet – wifi or cell service
- Laptop computer – wifi or internet
- Desktop computer – wifi or internet

* Reporters may choose whichever option best suits their needs



Estimated costs for vessels



- Cellphone (\$150-\$500) – wifi or cell service (\$20-\$80/Month)
- Tablet (\$200-\$1000) – wifi or cell service (\$20-\$80/Month)
- Laptop computer (\$750-\$2,500) – wifi or cell service (\$20-\$80/Month)
- Desktop computer (\$100-\$700) – wifi or cell service (\$20-\$80/Month)

Additional government cost

- Modification to logbook quality control application
- Additional quality control staff ~ 5

Example

Trip type and vessel must be correctly selected by user to trigger the correct questions to display

  Create New Trip

Trip Setup

Trip Type

Commercial

▼

Vessel

NMFSS TEST BOAT

▼

Permit

(NMFS-SER) DUMMY_SEFSC_OPR (Oper

▼

When uploaded, this trip report will be delivered to
NMFS-SER

Trip level details are next. Some of these fields are defined as mandatory

NMFS has defined some fields as mandatory to ensure the quality and usefulness of logbook data collected from fishers. This ensures we have comparable information collected across federal fisheries

Trip Details

Trip Type Commercial

Vessel NMFSS TEST BOAT

Trip Name Trawl Trip 1

VTR # 99999922060108

Trip Activity

Fishing Trip With Efforts

End Port

FL > MIAMI-DADE > MIAMI

Start Port

Port that the vessel left from at start of the trip

FL > MIAMI-DADE > MIAMI

Captain's Last Name

Last name of the captain on this trip.

BROWN

Captain's First Name

First name of the captain on this trip.

JULIE



More trip details

Trip Details

Days at Sea

Number of whole days that have passed from the start of the trip to the return to the dock

of Crew

Number of crew (including the captain) on each trip

Trip Expense Section

NOTE: This section is only mandatory if you received separate notification that your vessel was selected to report economic data this calendar year.

NO. YOU CAN LEAVE THE QUESTIONS BELOW ✓

Owner Aboard?

Is the vessel owner on board?





Fuel used (Gallons)

Gallons of fuel used on this trip.

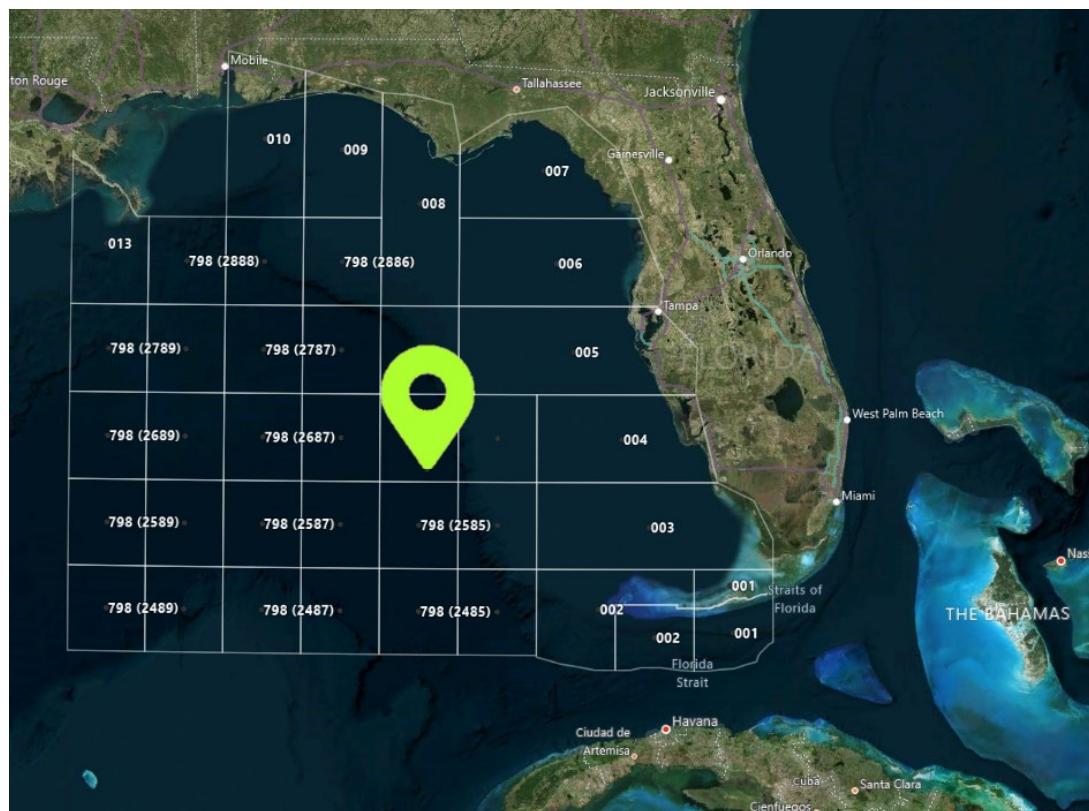


Next: details relating to fishing activity

Effort Details

Location	26° 09', -85° 24'	 
Primary Area Fished	Federal Waters	▼
Waters Fished	US 798 - GULF OF MEXICO OFFSHORE -	▼

A reference map is provided for users to see what grid they are fishing



Example: trawl gear

Can be as simple or detailed as the logbook program wants.

Effort Details

Gear Type

OTHER TRAWLS



Gear Quantity

Nets towed per Set

1

Gear Sets

tows

5

Depth

Bottom of Net in fathoms (1 fathom = 6 feet)

100

Length of Net Body

Total length of net body, from headrope to cod end in feet

50

Width of Trawl Opening

Width of trawl opening, or circle size, in feet

25



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*Anything caught?
Mandatory

*Target species?
Mandatory

Comments

Comments or uncoded data

SHRIMP TRAWL

Target Species

Please provide the top two intended target species only.

SHRIMP, ROYAL RED



Anything Caught?



☐ No catches on this effort

☒ Effort with catch(es)

Notes

Short day|

All Trip Duration elements are Mandatory

Trip Duration

Trip Start Date

Mon 5/30/2022



Trip Start Time

5:30 AM



Trip End Date

Tue 5/31/2022



Trip End Time

9:00 PM



Effort Length

☒ Hours

Hours fished in effort

Total amount of time the gear was in the water. Do not include time spent traveling to or between fishing grounds.

12

Next, information about catch is logged

All are required, some are default.

← SHRIMP, NORTHERN WHITE

Quantity 200

Unit Of Measure
Pounds

Catch Disposition
General : Food

Catch Source
Standard

Market / Grade
UNCLASSIFIED / UNGRADED

Fish
Number of Fish

10000

Offload
Tap to Select an Existing Offload...

+ NEW

Users may also enter bycatch or discards

← SNAPPER, RED

Quantity 50

Unit Of Measure
Pounds

Catch Disposition
Discarded Dead : Under size limit

Catch Source
Standard

Market / Grade
UNCLASSIFIED / UNGRADED

Fish
Number of Fish

500

Any catch retained must be offloaded

☰

← Offload Details

<input checked="" type="checkbox"/>	SELECT ALL		
<input checked="" type="checkbox"/>	200 Pounds	SHRIMP, NORTHERN WHITE (UNCLASSIFIED / UNGRADED)	EDIT

Sales Disposition
Sold To Dealer

OFFLOAD PORT
OFFLOAD PORT FOR CATCH
FL > MIAMI-DADE > DADE (COUNTY)

Offload Date
Offload Date
06-01-2022

Dealer License
Dealer Permit - if SOLD TO DEALER
SEAFOOD ATLANTIC

Date Sold
Date Sold - Date of the sale at the dealer. May be mo
06-01-2022

To submit, the device must be in wifi or cellular range



I certify that the vessel trip information I am providing is true, complete and correct to the best of my knowledge, and made in good faith. Making a false statement is punishable by law (18 U.S.C. 1001).

TAP TO AGREE.

SUBMIT

Time/location feature for consideration



Auto Configure: Set Start

Set Start Date (MM-DD-YYYY)

Date gear placed in water

06-01-2022

Set Start Time (HH24:MM)

Time gear placed in water

10:16

Set Start Latitude (decimal degrees)

Lat of initial gear placement

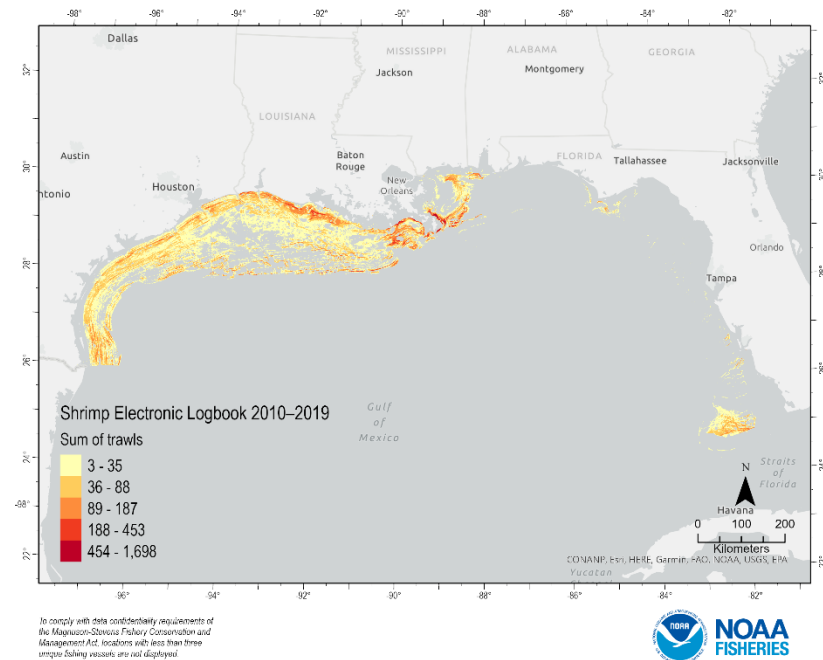
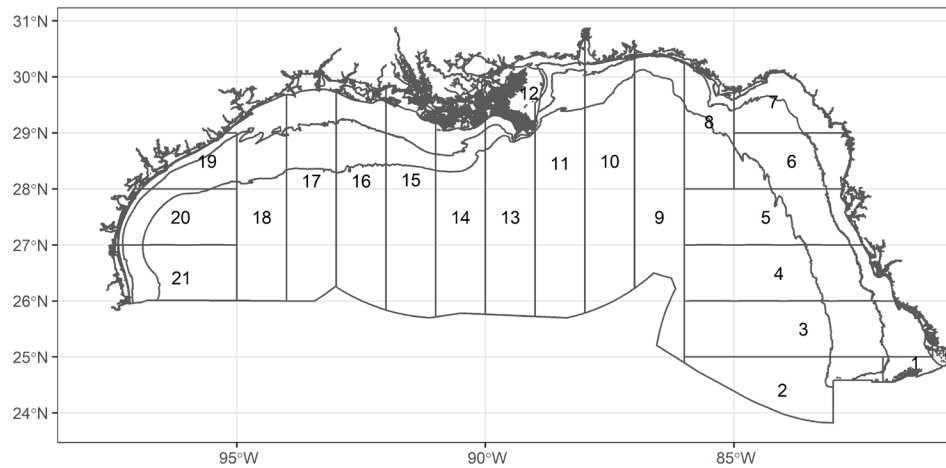


Set Start Longitude (decimal degrees)

Long of initial gear placement



Usefulness of area specific effort vs. location specific effort



Credit: Jo Williams

eTrips is not designed to passively collect time or spatial information like the cELB program.

Comparison

E-Logbook(eTrips)

Does not passively collect any information. All data must be entered by user.

Can obtain a variety of information about trip, effort, catch, and offloads.

Catch / Time fished:
comes from single data source

GPS Logger (cELB)

Passively logs spatial information while at-sea.

Transmits spatial data when in cell phone range

Total effort is modeled

Must be linked post hoc with other logbook elements such as gear descriptions or catch.

VMS Unit

Passively logs spatial information while at-sea

Transmits data when in cell phone range

Total effort is modeled

Must be linked post hoc with other logbook elements such as gear descriptions or catch.



Summary

How could a logbook fit into Gulf shrimp fishery management needs?

Information needed for CPUE collected from one form

What permits are currently required to submit SEFSC logbooks?

Variety of permit holders from Gulf and S. Atl.

What information does the SEFSC consider for Logbook trip reports? Reports are organized by Trip, Effort, and Catch level information. Plus Economic Survey

What type of information is eTrips best equipped to collect? Manually entered data

What might a an electronic logbook look like for trawl gear(s)? It can be as simple or detailed as the program wants, however it must comply with the minimum standards set by NMFS





Questions?



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