

Coonamessett Farm Foundation: Electronic catch reporting for the US scallop fleet

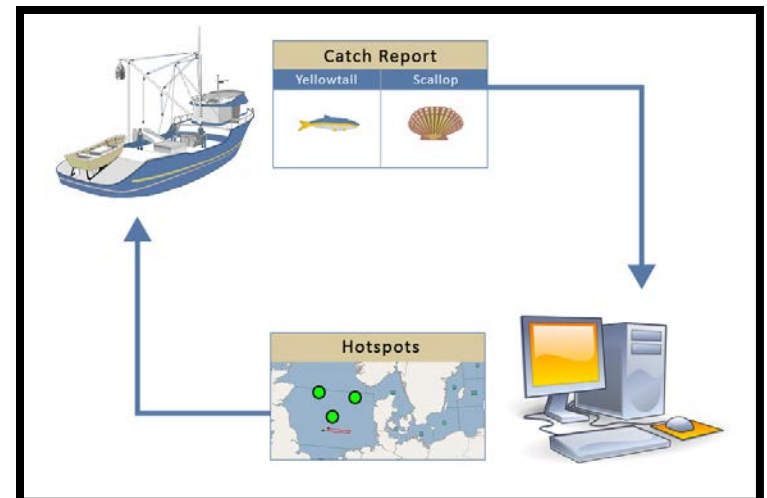
- RSA: Real-Time Bycatch Reporting Pilot Project
- PSFMC: FLDRS for the Mid-Atlantic scallop fleet

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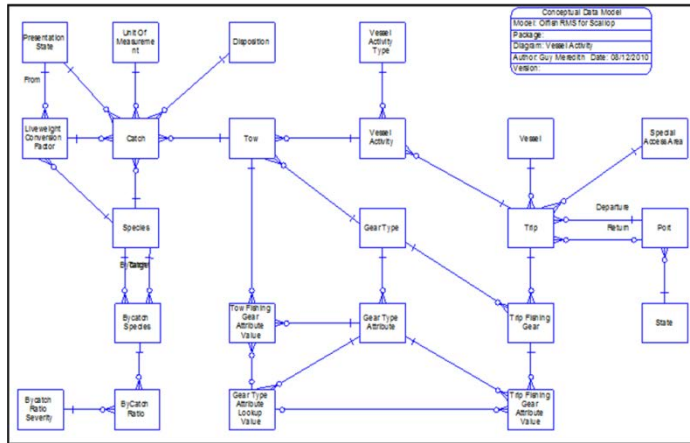


Electronic catch reporting

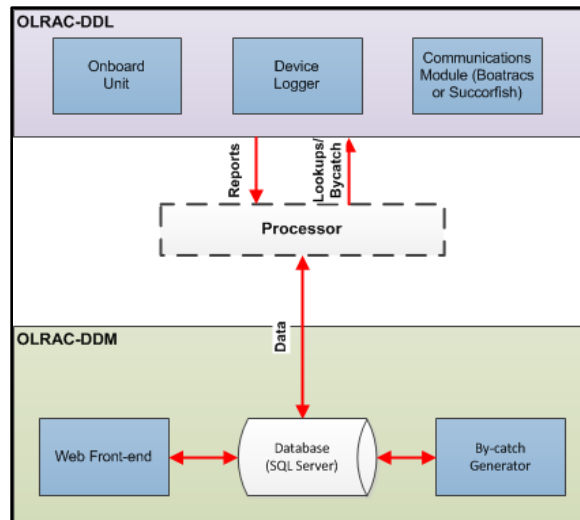
- Why electronic catch reporting?
 - -eVTR
 - Fishery dependant data
 - Lack of survey data
 - Observer coverage
 - AMs
 - Bycatch avoidance
- Project progress to date:
 - 2013: 6 vessels reporting
 - 2014: 10 vessels reporting
 - Social science



Real-Time Bycatch Reporting Pilot Project

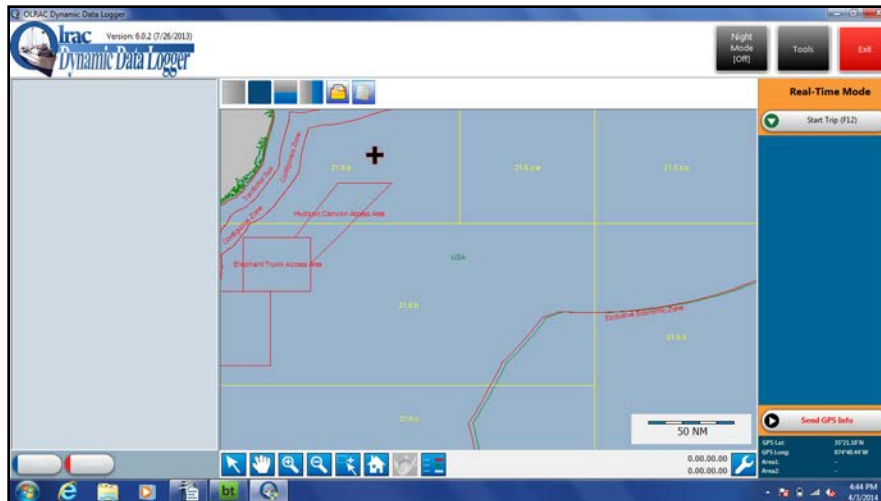
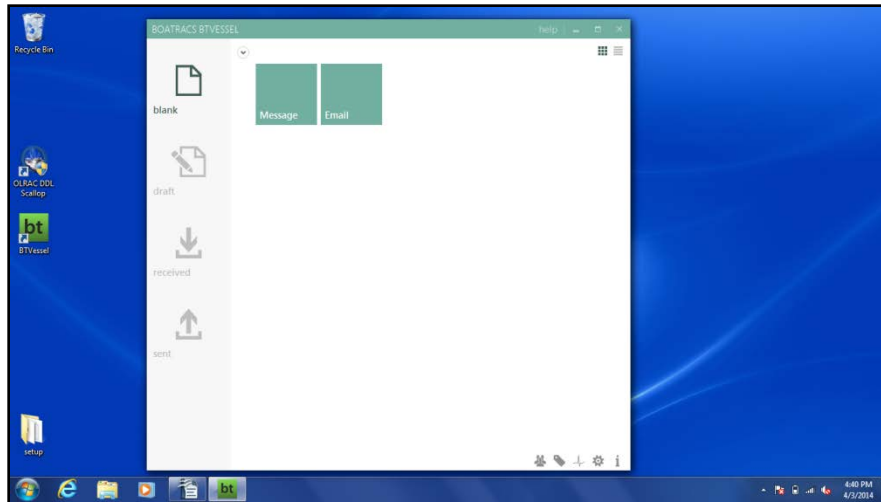


- Preliminary stage
 - Conceptual planning
 - What data should be collected?
 - What is feasible to have fishermen collect?
 - Software development
 - How to transmit the data?
 - Costs?



- Secondary stage
 - Test data
 - On land
 - On the F/V Celtic (2011)
 - Data transmission
 - Boatrac (2011)
 - Succorfish (2012)

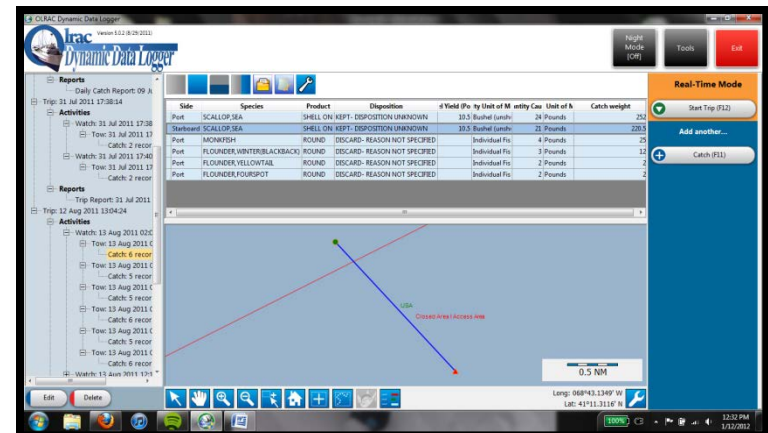
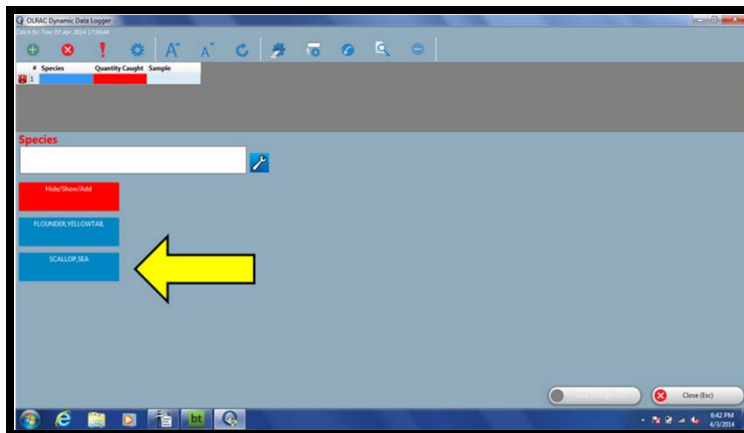
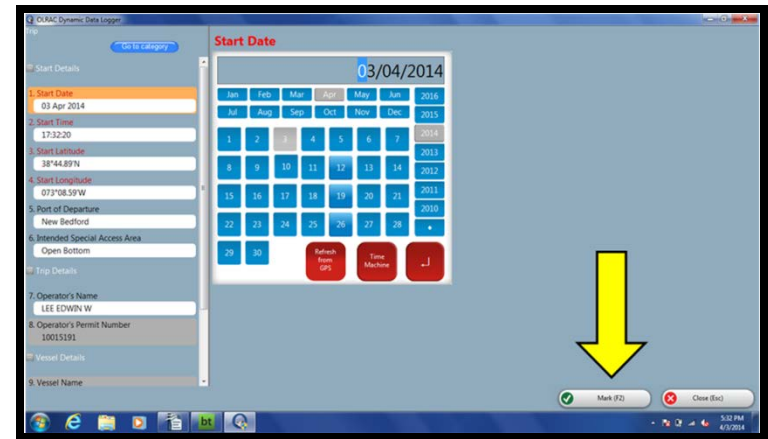
Real-Time Bycatch Reporting Pilot Project



- Setup:
 - GPS Logger
 - Automatic GPS
 - BT Vessel
 - (Btvessel vs. WBUI)
 - Olrac DDL
 - Dynamic Data Logbook
 - Upgrades in 2012 over initial version

Real-Time Bycatch Reporting Pilot Project

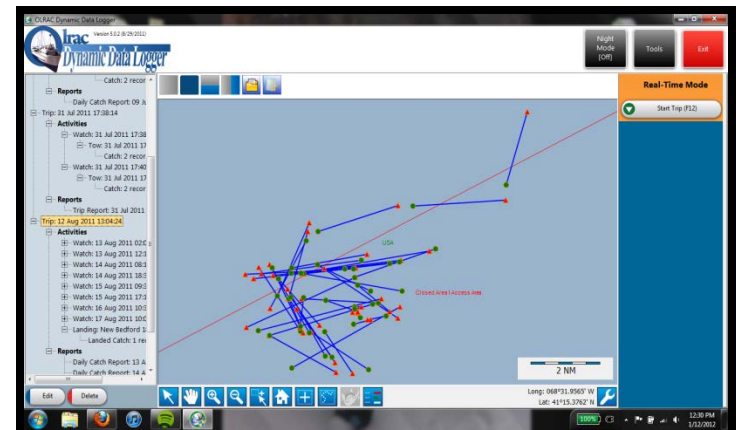
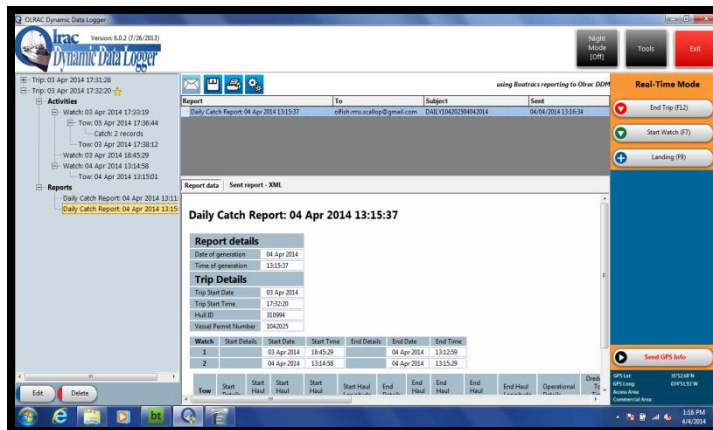
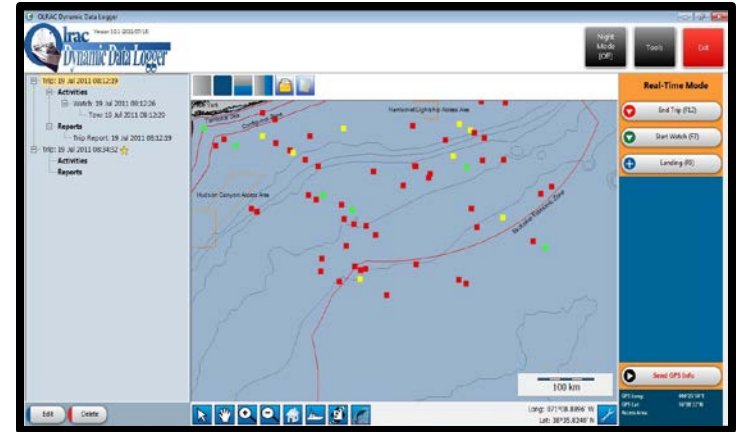
- Start a trip
 - Minimal manual data input
 - Autofill capabilities
- Entering catch data
 - Redesigned grid system
 - Flexible to add or remove features



Real-Time Bycatch Reporting Pilot Project

Reporting:

- To shore:
 - Daily catch reports
 - Trip reports
- To the vessel:
 - Bycatch reports



Real-Time Bycatch Reporting Pilot Project

The screenshot shows a web browser window with a map of the New York City area. On the left side, there is a 'Vessel List' panel with a search bar and a 'Plot By-Catch' button. The map shows several vessels, with one vessel highlighted in red. The interface includes navigation controls and a 'Map' button.

The screenshot shows a web browser window displaying a 'List of received reports' table. The table has columns for '#', 'Sender', 'Report number', and 'DateTime Downloaded'. The data is as follows:

#	Sender	Report number	DateTime Downloaded
	ffelaar@outlook.com	DAILY20121127125537	2012/11/27 12:56:15 PM
	ffelaar@outlook.com	DAILY20121127124930	2012/11/27 12:45:06 PM
	ffelaar@outlook.com	DAILY20121123162540	2012/11/23 04:30:59 PM
	ffelaar@outlook.com		2012/11/23 02:02:47 PM
	ffelaar@outlook.com	DAILY20121123135015	2012/11/23 01:50:50 PM
	ffelaar@outlook.com	DAILY20121123134013	2012/11/23 01:43:49 PM
	ffelaar@outlook.com		2012/11/22 09:09:34 AM
	ffelaar@outlook.com		2012/11/22 02:07:32 AM
	ffelaar@outlook.com	DAILY20121122020032	2012/11/22 02:01:20 AM
	ffelaar@outlook.com	DAILY20121122013955	2012/11/22 01:56:12 AM

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The screenshot shows a web browser window displaying a map of Rhode Island. A 'Plot By-Catch' button is visible. A data table is shown, listing species, UOM, Amount, and Weight. The data is as follows:

Species	UOM	Amount	Weight
FLOUNDER,WINTER(BLACKBACK)	Individual Fish	0	20
FLOUNDER,YELLOWTAIL	Individual Fish	0	50
SCALLOP,SEA	Bushel (unstucked)	50	500

The screenshot shows a web browser window displaying a 'List of Species' table. The table has columns for '#', 'Species Name', 'Scientific Name', and 'Species ITIS Code'. The data is as follows:

#	Species Name	Scientific Name	Species ITIS Code
	FLOUNDER,WINTER	PSEUDOPLEURONCTES AMERICANUS	172905
	WOLFFISH,ATLANTIC	ANARHICHAS LUPUS	171341
	COD,ATLANTIC	GADUS MORHUA	164712
	FLOUNDER,PLAICE,AMERICAN (DAB)	HIPPOGLOSSOIDES PLATESSOIDES	172877
	FLOUNDER,WITCH (GRAY SOLE)	GLYPTOCEPHALUS CYNOGLOSSUS	172873

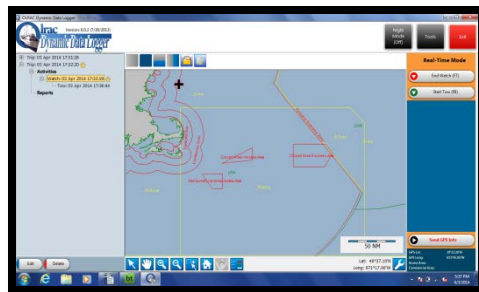
Species Name: FLOUNDER,WITCH (GRAY SOLE) | Scientific Name: GLYPTOCEPHALUS CYNOGLOSSUS | Species ITIS Code: 172873

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CFF Electronic Monitoring Program vs. NOAA FLDRS Program

• CFF EM Program

- Not certified for eVTR
- Visualize real-time on mapper
- Send back real-time bycatch hotspot maps
- Shore-based online program to visualize data, accessible to owners/captains
- Data not transmitted to NOAA, stays within the industry

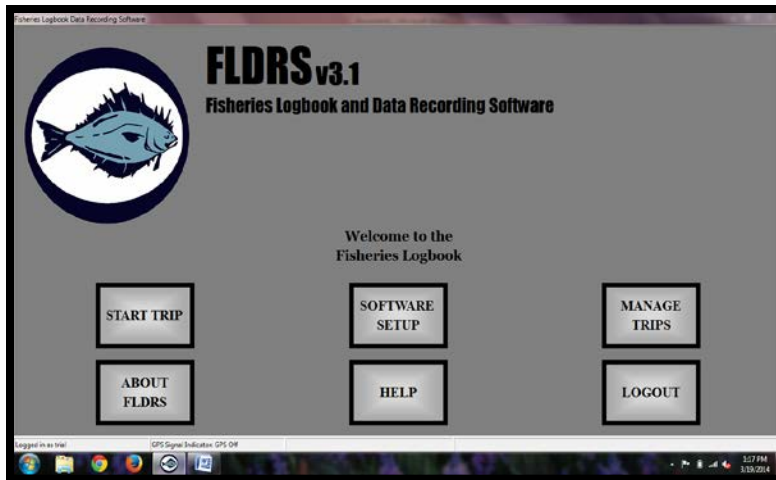


• NOAA FLDRS Program

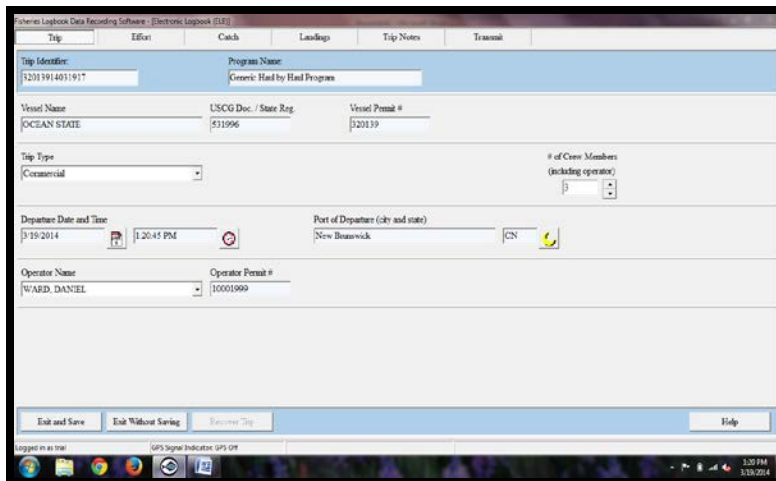
- Certified eVTR program
- No mapper function
- No ability to send information back to the vessel
- Shore-based program to edit catch data available to owners/captains
- Data transmitted to NOAA



PSFMC: FLDRS for the Mid-Atlantic scallop fleet



- Mid-Atlantic vessels only for the first round
- Incentive-based payments
- GPS and sounder inputs



PSFMC: FLDRS for the Mid-Atlantic scallop fleet

The screenshot shows the 'Effort' tab of the Fisheries Logbook Data Recording Software. The 'Gear Used' dropdown is set to 'Dredge'. The 'Effort Duration' section has 'Set - End' and 'Haul - Start' fields. The 'Effort Location' section has 'Stat Area' and 'Avg Depth' fields. A table at the bottom shows the following data:

#	Gear Type	Mesh	Size	Qty	Tow Time	Area	Depth
1	Dredge	4	120	1	0:0		Fathoms

- Catch and tow data relates to NEFSC and Observer program codes

The screenshot shows the 'Trip' tab of the Fisheries Logbook Data Recording Software. The 'Vessel Name' is 'OCEAN STATE', the 'Departure Date and Time' is '5/19/2014 1:20:45 PM', and the 'Trip Identifier' is '52013914031917'. The 'Satellite Communications and Trip Transmission' section has 'File Destination' and 'Recipient Address' fields. The 'Data Backup (export to local drive)' section has a 'File Destination' field with the path 'C:\NEFSC-FLDRS3_1\Local_Backup\'. Buttons for 'Check Trip', 'Preview', 'Export Trip', 'Help', and 'Exit and Save' are visible at the bottom.

- Environmental data collection
- Sent with USB, and then emailed

Thank you

- Eastern Fisheries: Ronnie Enoksen and Peter Anthony
- Joe Gilbert and Ed Lee (F/V Regulus and F/V Furious)
- Charlie Quinn and Paul Desmarais (F/V Celtic)
- Heidi Henninger  OLFISH AOLA
- Fatima Felaar  OLRAC
- Dominic Bindley, Alan Yu  BOATRACS®