

**Graphical Offshore Fishing Information System Homepage (GOFISH)** is a computer fishing aid, data visualization and analysis app that is being developed by the Cooperative Research Branch of the Northeast Fisheries Science Center (NEFSC) for commercial fishing captains and vessel owners participating in the Study Fleet Program that provides them mapping, graphing and analysis of their fishing data.

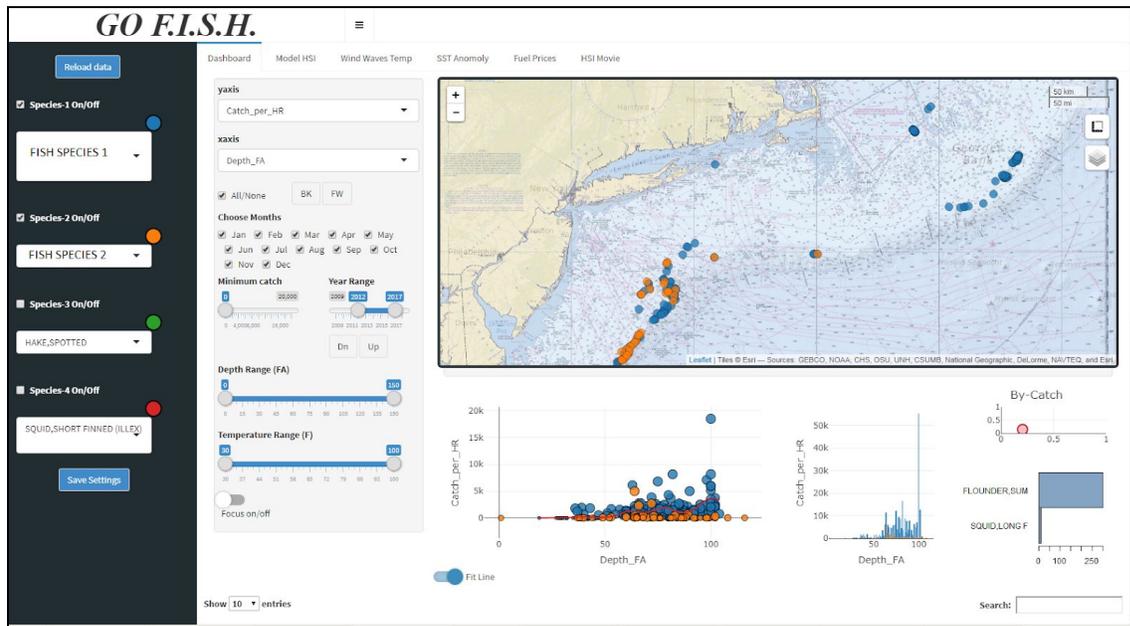


Figure 1: GOFISH app main screen showing multiple species overlaid are used to Sliders are used to subset the information based on catch amounts, year, month, temperature and depth. \*

GOFISH, coupled to self reported electronic data recorded with the NEFSC's Fisheries Logbook Data Recording System (FLDRS), provides industry with the tools to better visualize factors influencing fishing efficiency including bycatch avoidance within the context of ecosystem dynamics. The system is designed to simultaneously promote accurate, responsive, proactive fisheries science and cleaner, more efficient fishing businesses.

The app's functionality is being designed through collaboration with the fishing industry to maximize the benefits to its users. The app is easy to use, and doesn't require any additional effort on the user's part, as it interacts directly with the data entered into FLDRS. It incorporates the user's historic data and adds new efforts 'on the fly'. All data remains on the user's computer and is not shared with anyone.

\*Data shown in all images are artificial, example data and are not intended to be interpreted.

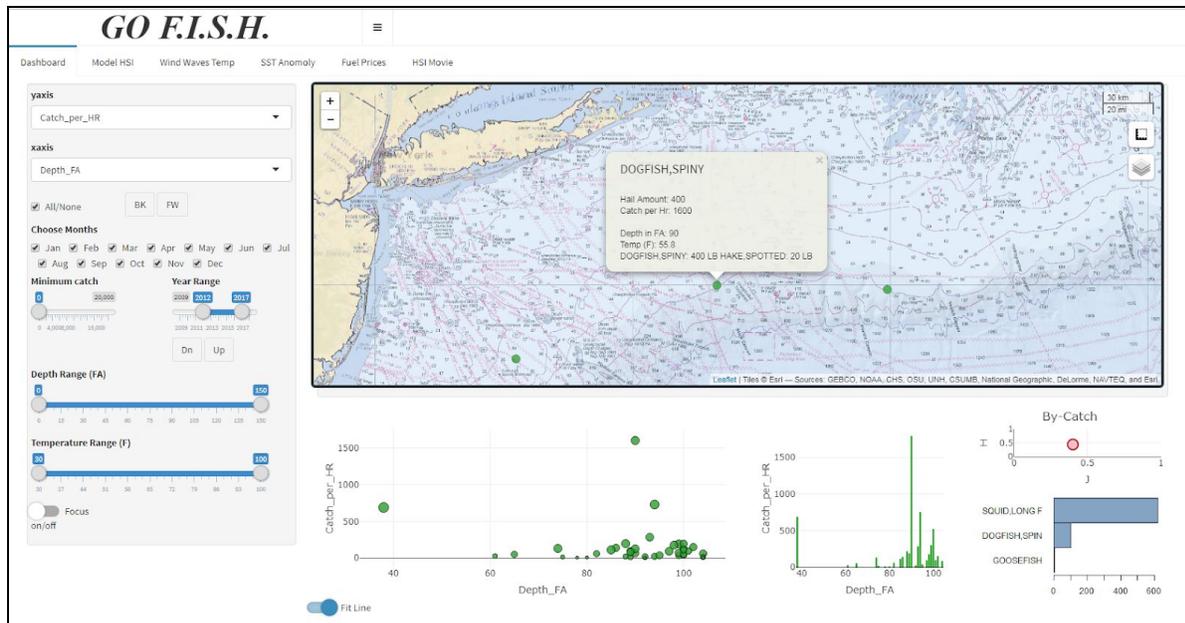


Figure 2: User can click on an individual haul/tow and see all the information related to that effort.

Some of the analysis tools in GOFISH include, temperature-depth plots, by-catch analysis graphs, best-fit models, multibeam bathymetric images, monthly, yearly catch breakdowns, table views of catches and output from oceanographic models (ROMS) with real-time GPS positioning overlaid. The app runs on a windows laptop or equivalent and does not need an internet connection while offshore.

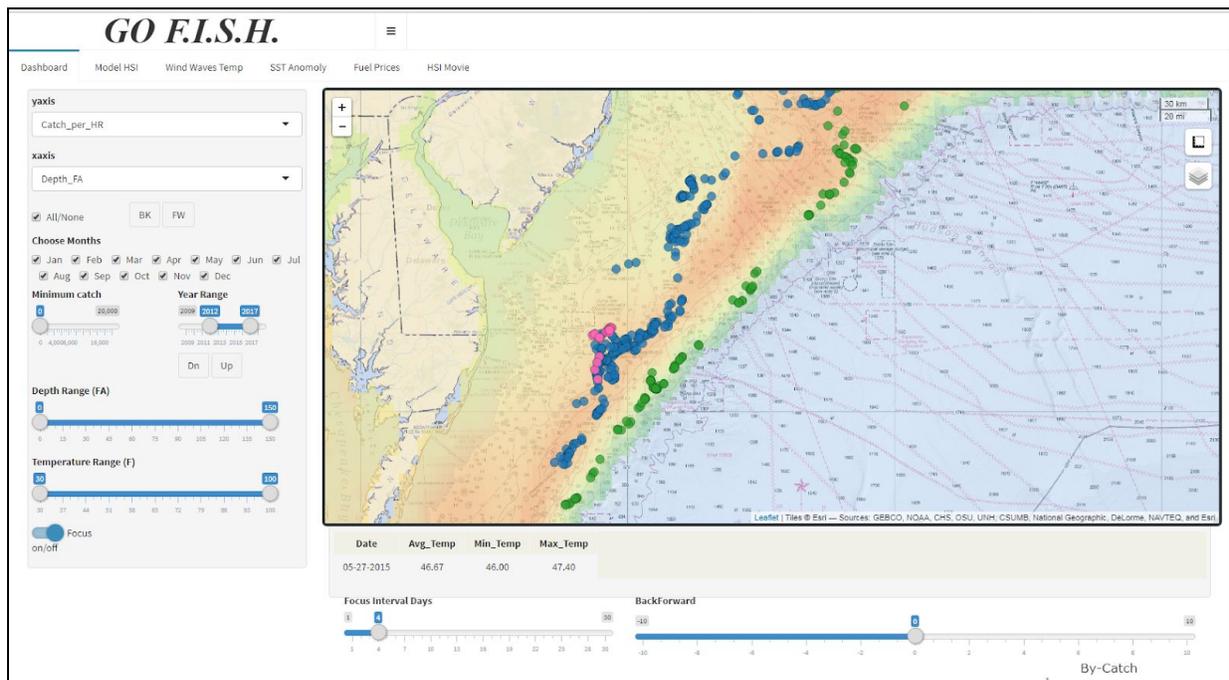


Figure 3: Focused analysis from a user-selected time period overlaid on an oceanographic model output.

Discussions of habitat dynamics, factors affecting targeting and avoidance of collateral effects to the ecosystem among Study Fleet partners and scientists are facilitated by FLDRS and GOFISH and improve our understanding of socio-ecological fisheries systems in real time. We have completed a development and pilot phase of the project and are planning to incorporate GOFISH functionality as a module in the next generation of FLDRS(5.0). *If you have any questions, please contact: Jeffrey Pessutti at [jeffrey.pessutti@noaa.gov](mailto:jeffrey.pessutti@noaa.gov).*

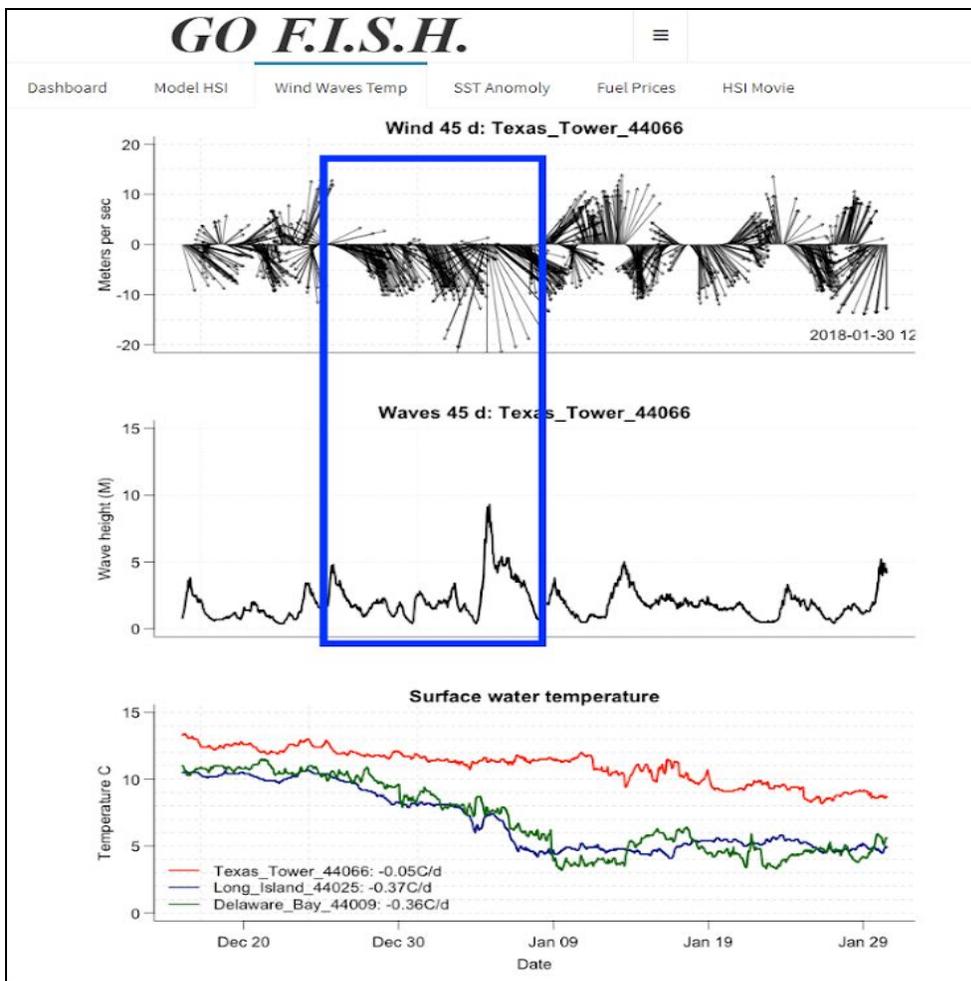


Figure 5: GOFISH has other tabs showing additional information provided and updated each time the user gets an internet connection. This shows relevant buoy data.