

# FINSS Digital Mapping Quick Start Guide

[For more details, please reference the FINSS Public User's Manual](#)

## 1. Select Parameters

To generate map reports, first set up the Report Criteria by selecting parameters for:

- Survey Year
- Science Center
- Survey Name
- Funding Source
- Purpose

A sample setup (SEFSC 2007) is shown in Figure 1.

The screenshot displays the 'Parameters' section of the FINSS Digital Mapping interface. It contains five dropdown menus for selecting report criteria:

- Year(s):** A dropdown menu with options: \*\* All Years \*\*, 2004, 2005, 2006, 2007 (selected), 2008, 2009, 2010.
- Science Center(s):** A dropdown menu with options: \*\* All Centers \*\*, Alaska Fisheries Science Center, Northeast Fisheries Science Center, Northwest Fisheries Science Center, Pacific Islands Fisheries Science Center, Southeast Fisheries Science Center (selected), Southwest Fisheries Science Center.
- Survey Name(s):** A dropdown menu with options: \*\* All Surveys \*\*, Atlantic Stripped Bass Tagging\_Winter, Fish assemblages of western and southwestern Puerto Rico, GULFSPAN\_database, InShore Shark Longline, InShore Shark Longline\_Spring, InShore Shark Longline\_Winter, Longline Shark/Red Snapper\_Summer, Mangrove\_studies, Marine Mammals Survey\_Summer.
- Funding(s):** A dropdown menu with options: \*\* All Funding Sources \*\*, Base Fund, Congressional Earmarks/Pass-through fund, Contract Fund, Fund from External Agencies.
- Purpose(s):** A dropdown menu with options: \*\* All Purposes \*\*, Animal Movements, Camp Support, Climate Observation, Coral Reef Benthic Assessment.

At the bottom right of the parameters section, there is a button labeled 'Generate Report', which is highlighted with a red rectangular box. A red arrow points from the right side of the image towards this button.

Figure 1 - Setup for Survey Report

## 2. Map Report

To produce a map, select the ‘Generate Report’ button at the bottom of the parameter page (See Figure 1). After you zoom in closer, you should observe the sample Map Report from the supplied survey criteria (SEFSC 2007 in this example) shown in Figure 2.

There are multiple component overlays for this map. One is the Exclusive Economic Zone (EEZ) with an outline indicated for the region. Another component is the “heat map” display, which shows the observation density for the currently selected stations, calculated for a grid with a cell size of  $\frac{1}{4}$  degree. These cells are color-coded using a range of colors indicated by the scale in the right panel, where the “temperature” is proportional to station density.

The EEZ may be toggled on/off by checking or unchecking the box next to ‘US EEZ’. Similarly, the heat map may be toggled by checking or unchecking the box for ‘Survey stations within selected area’.

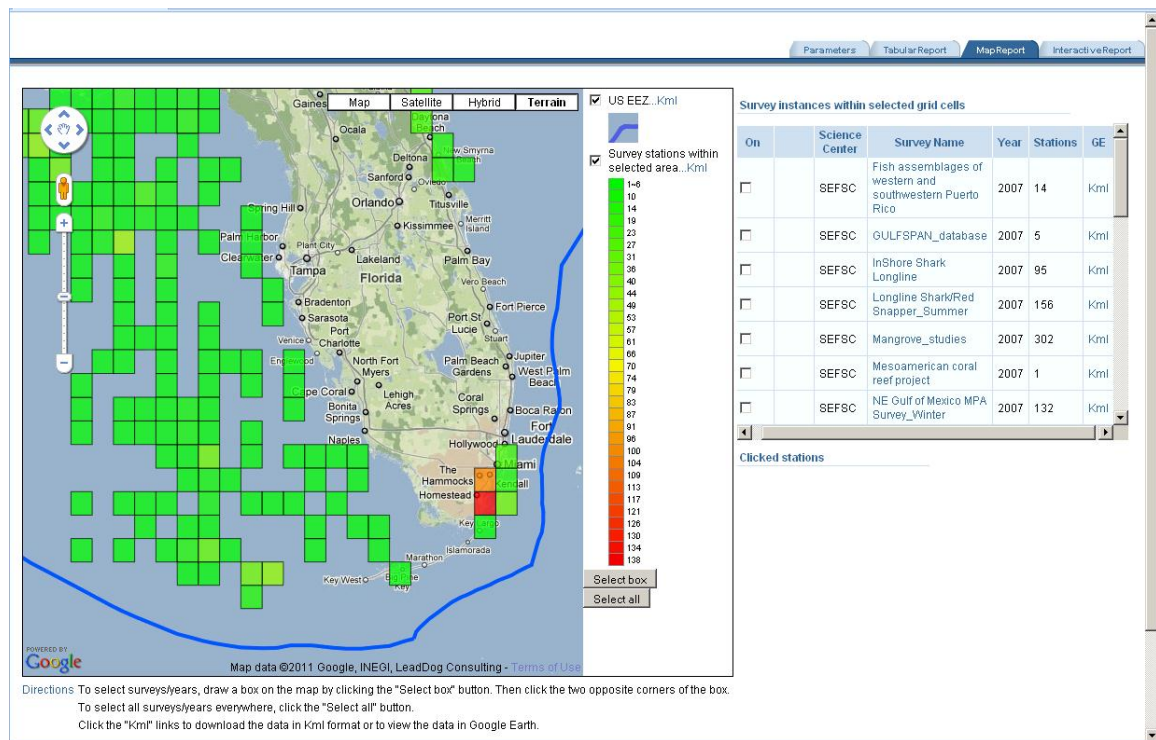


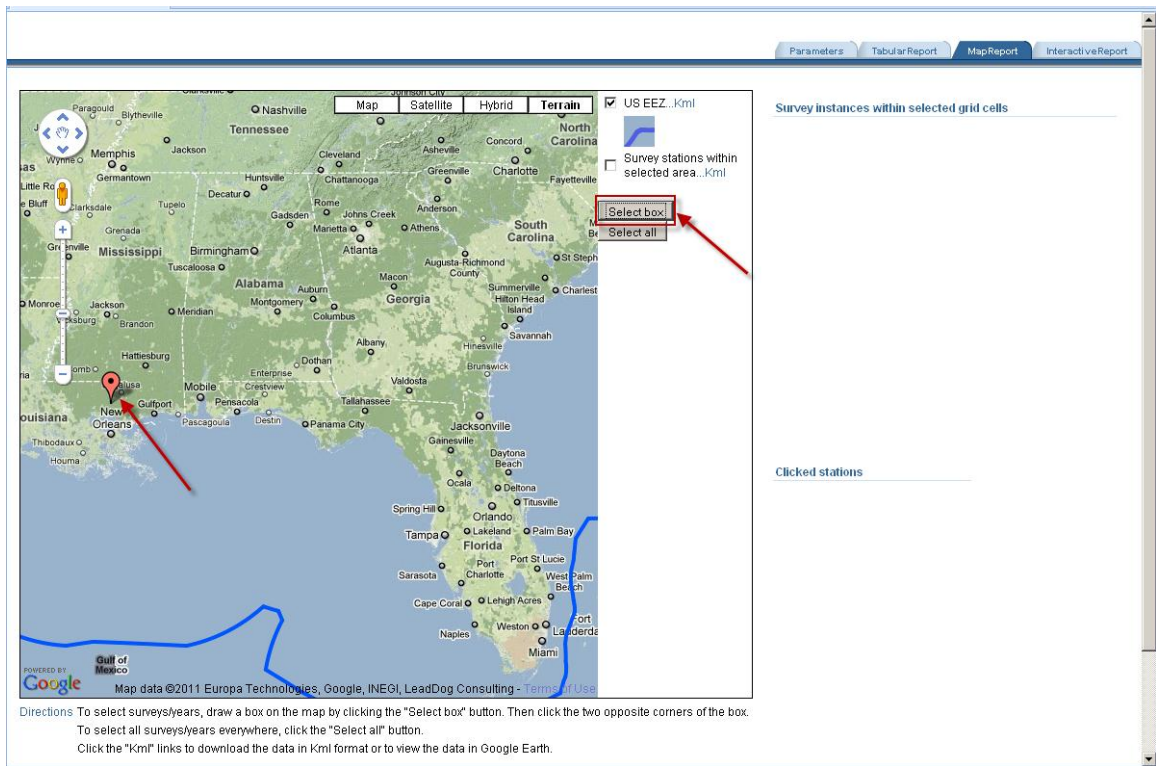
Figure 2 - Sample Map Report

To drill down for additional detailed station information, you may define an area of interest by drawing a box on the map. Only those surveys/stations within the box will be available as layers. If you want to return all survey instances that match your parameters, click the 'Select All' button.

The steps for creating a Select Box are:

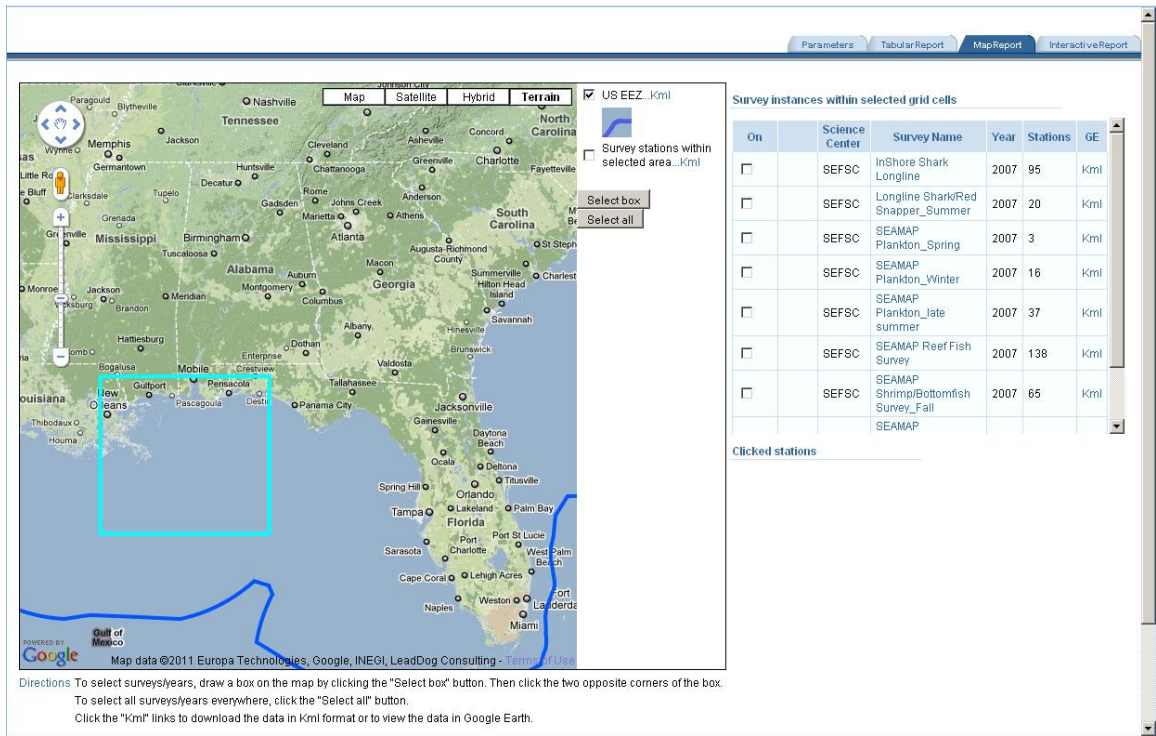
- Click the 'Select box' button
- Click one corner of the box
- Click on the opposite corner of the desired box

An example is shown in Figure 3 where the first corner has been selected and a marker has been displayed on the map.



**Figure 3 - Map: Setup for Select Box**

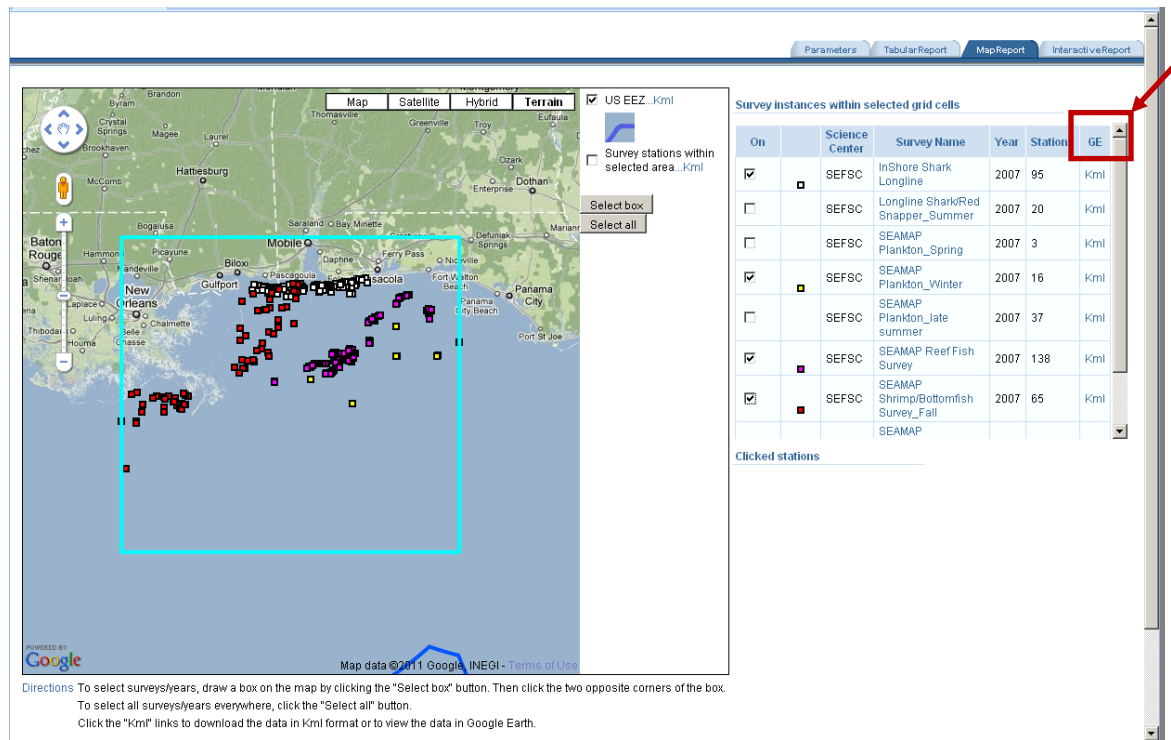
After the second corner has been selected, the Select Box will be created as illustrated in the example shown in Figure 4. A table for the ‘Survey instances within selected grid cells’ is also displayed in the right panel.



**Figure 4 - Map: Select Box Defined**

To turn on the stations for individual surveys/years, click on each check-box of interest under the 'On' column. Each survey instance that you turn on gets a different color as shown on the map and the corresponding table entry. You may display up to eight survey instances at one time. An example with four survey instances is shown in Figure 5.

To download the geospatial data for a survey instance in Kml format or to view the data in Google Earth, click on the 'Kml' link for the survey instance.



**Figure 5 - Map: Survey Instances inside a Select Box**

To show the attributes of an individual station or stations, click on the station (or stations) on the map. The attributes of those stations will show up in the window on the right side of the screen and the selected stations will be highlighted on the map. If the station has a beginning and ending point (as in trawl), a black line will also be displayed connecting these two points. This feature helps users find out information about overlapping stations. An example for ‘SEAMAP Reef Fish Survey’ is illustrated in Figure 6.

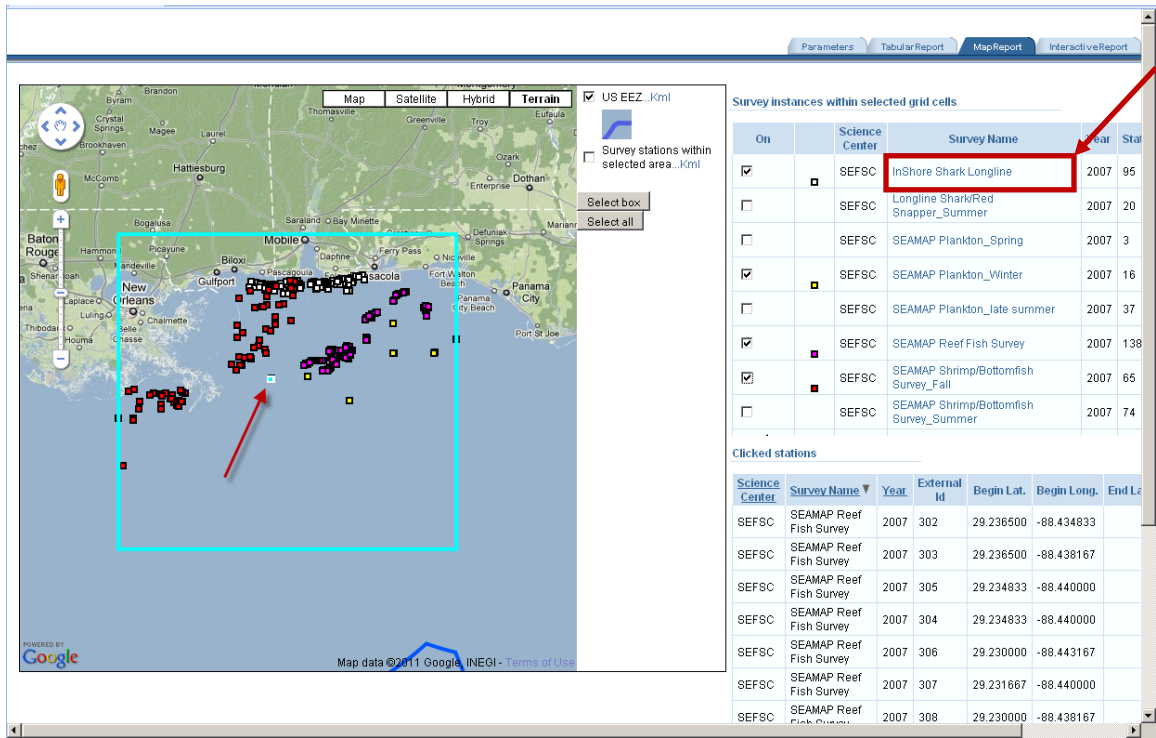


Figure 6 - Map: Display Attributes for Stations

In the list of survey instances that meet the filter parameters, click on the survey name (see Figure 6), and a summary of the survey's attributes will be displayed in a new window as shown in Figure 7.

Survey

Survey Id: 146

Science Center: SEFSC

Survey Name: SEAMAP Reef Fish Survey

Survey Description:

Survey Effective Date:

Survey End Date:

Contacts

First Name	Middle Name	Last Name	Phone	Phone Ext	Email
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Survey Instance Detail

Survey Instance Id	Species Category	Year	Science Center	Management Act	Gear	Days At Sea	Stations Per Regional Ecosystem	Number Of Cruises	Observation Names
189	-	2007	SEFSC	FSSI	Video Arrays	78 Gulf of Mexico: 397	2	Biological,Habitat,Oceanographic,Protected Species	

Done

**Figure 7 - Map: Summary Information for Survey**



In the above example, a Select Box was created to define an area of interest. Alternately, the Select All button could be used to return all survey instances that match the chosen parameters. Follow the same steps as above: 1) Turn on the stations for individual survey instances and 2) Click on stations to show attributes. The resulting sample display is shown in Figure 8.

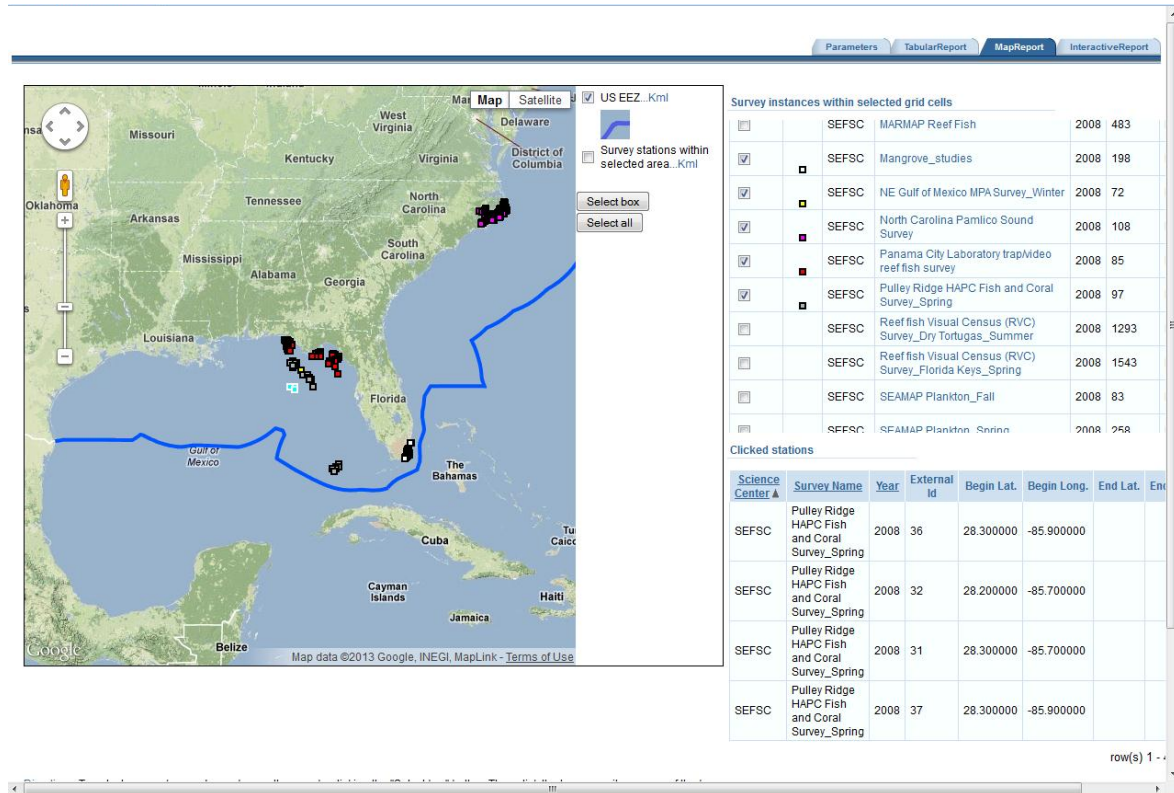


Figure 8 - Map: Show Station Attributes