



# SeaSketch Survey Tutorial

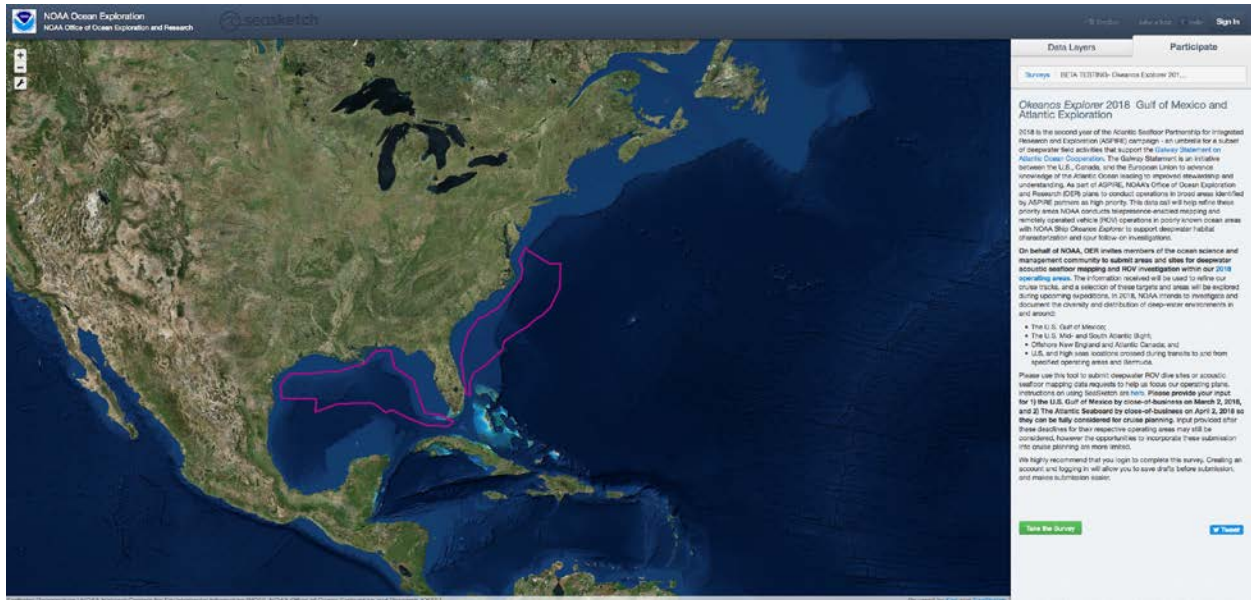
## Getting Started:

Click the survey link

<http://seasket.ch/O0ADwNe53Q>

### 1. Home Screen Familiarization

Clicking the survey link will take you to the survey home screen, sample pictured below.




On the survey home screen, there is an interactive chart on the left and survey tabs on the right.

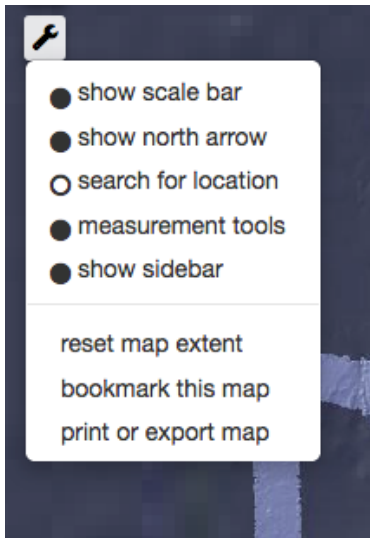
### Chart on the Left

- This chart highlights the tentative operating areas (pink) for 2018 operations in the Gulf of Mexico and Atlantic
- The chart also designates various protected areas, sanctuaries, and US Marine National Monuments areas (these can be toggled on and off under Data Layers, default setting is off)

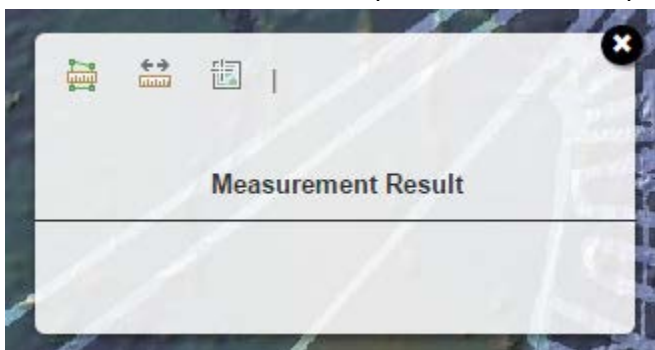
- There is also a compilation of publicly available high resolution bathymetry that will be displayed on your screen when you open the survey. If you find this layer to be too busy, you can turn it off in the Data Layers tab (instructions below).





- Use  on the top left of your screen to zoom in/out. Also there are some useful features if you click on the wrench or settings button, pictured here.




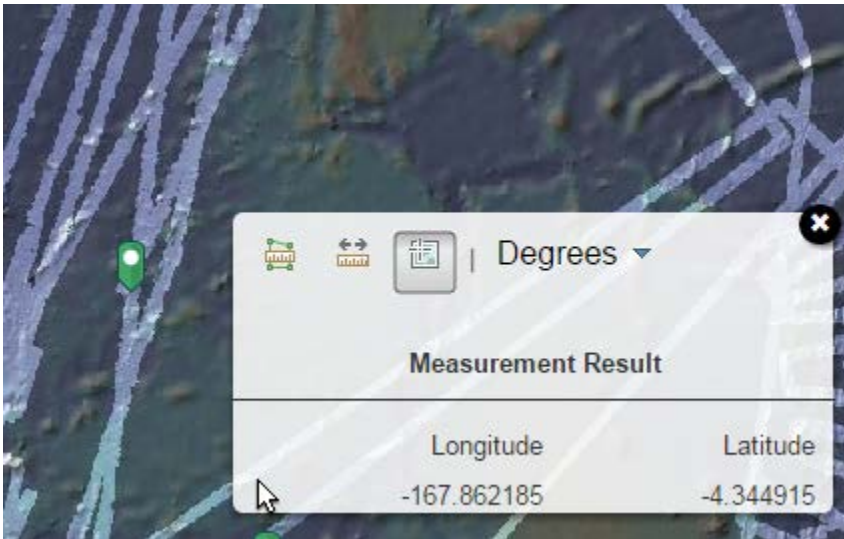
- If you are not seeing a scale bar displayed on your map, you can click on “show scale bar” under the wrench dropdown menu to display this tool.
- If you would like to measure distances, whether to see how far something is, how big an area is, or to determine the length of a submitted dive track, click on “measurement tools” under the wrench dropdown menu to display this tool.



The first icon  will allow you to draw a polygon and measure an area.

The second icon  will allow you to measure a linear distance. When submitting a dive plan, you made need to zoom in very close to a feature to get an accurate length estimate. You may need to change your units to meters in the drop down menu.

The third icon  will allow you to get the exact location of a specific point by placing the green marker on the point of interest. Longitude and Latitude of the point will appear in the measurement box.



## Tabs on the **Right** side of the Home Screen




Let's begin with the Data Layers Tab.

**Data Layers** **Participate**


Data Layers Basemap Legend & Ordering

Search layers by name or keyword

### 2018 Okeanos Explorer Gulf of Mexico and Atlantic

- ▼   Okeanos Explorer 2018 Planning
  - Bathymetric Contours
  - 2018 Planned Operating Areas
  - Publicly Available Multibeam
- ▼   NOAA/MPA\_Inventory
  - NOAA's MPA Inventory 2017
- ▼   MaritimeBoundaries/US\_Maritime\_Limits\_Boundaries
  - Overview
  - 12NM Territorial Sea
  - 24NM Contiguous Zone
  - 200NM EEZ and Maritime Boundaries

### FY 17 CAPSTONE

- ▶   2017 Johnston Atoll & Musicians Seamounts


◀ *Tips* ▶

Layer metadata, order, and opacity settings are found in the legend

Under **2018 Okeanos Explorer Gulf of Mexico and Atlantic** you can click **on / off** various features, that are useful tools while taking the survey (pictured above).

**Now that you are familiar with the Home Screen you are ready to take the survey**

## **2. Take the Survey**

Under the “Participate” tab click the green “Take the Survey” button  on the survey home screen.

Data Layers
Participate

[Surveys](#) / BETA TESTING- Okeanos Explorer 201...

### Okeanos Explorer 2018 Gulf of Mexico and Atlantic Exploration

2018 is the second year of the Atlantic Seafloor Partnership for Integrated Research and Exploration (ASPIRE) campaign - an umbrella for a subset of deepwater field activities that support the [Galway Statement on Atlantic Ocean Cooperation](#). The Galway Statement is an initiative between the U.S., Canada, and the European Union to advance knowledge of the Atlantic Ocean leading to improved stewardship and understanding. As part of ASPIRE, NOAA's Office of Ocean Exploration and Research (OER) plans to conduct operations in broad areas identified by ASPIRE partners as high priority. This data call will help refine these priority areas NOAA conducts telepresence-enabled mapping and remotely operated vehicle (ROV) operations in poorly known ocean areas with NOAA Ship *Okeanos Explorer* to support deepwater habitat characterization and spur follow-on investigations.

**On behalf of NOAA, OER invites members of the ocean science and management community to submit areas and sites for deepwater acoustic seafloor mapping and ROV investigation within our 2018 operating areas.** The information received will be used to refine our cruise tracks, and a selection of these targets and areas will be explored during upcoming expeditions. In 2018, NOAA intends to investigate and document the diversity and distribution of deep-water environments in and around:

- The U.S. Gulf of Mexico;
- The U.S. Mid- and South Atlantic Bight;
- Offshore New England and Atlantic Canada; and
- U.S. and high seas locations crossed during transits to and from specified operating areas and Bermuda.

Please use this tool to submit deepwater ROV dive sites or acoustic seafloor mapping data requests to help us focus our operating plans. Instructions on using SeaSketch are [here](#). **Please provide your input for 1) the U.S. Gulf of Mexico by close-of-business on March 2, 2018, and 2) The Atlantic Seaboard by close-of-business on April 2, 2018 so they can be fully considered for cruise planning.** Input provided after these deadlines for their respective operating areas may still be considered, however the opportunities to incorporate these submission into cruise planning are more limited.

We highly recommend that you login to complete this survey. Creating an account and logging in will allow you to save drafts before submission, and makes submission easier.

Take the Survey
Tweet

### 3. Contact Information

Take a few moments to fill out the “Contact Information” portion of the survey form (Full Name, Email Address, Affiliation, Expertise/Interest). Sample Pictured below.

Surveys / BETA TESTING- Okeanos Explorer 201...

Your Full Name \*

Your Email Address \*

**NOAA Office of Ocean Exploration and Research (OER): *Okeanos Explorer* Operations**

This survey tool will allow you to submit dive targets and mapping requests which will be used to define our final cruise plans. Instructions on using SeaSketch can be found [here](#). **Please finalize your submissions for 1) the U.S. Gulf of Mexico by close-of-business on March 2, 2018, and 2) The Atlantic Seaboard by close-of-business on April 2, 2018 so they can be fully considered for cruise planning.** Input provided after these deadlines for their respective operating areas may still be considered, however the opportunities to incorporate these submission into cruise planning are more limited.

As you fill out the form below, please be aware of our operational restrictions:

- ROV operations are conducted between 250 m and 6,000 m. ROV operations are usually 8- 10 hours and typically cover between 600-1,000 m of seafloor depending on depth and complexity of seafloor. Based on the specific objectives of a dive, a limited number of biological and geological samples are collected while on the seafloor.

- Our mapping systems are optimized for deepwater data acquisition and are most optimal between 300 - 4,000 m, but can be operated as shallow as 50 m and as deep as 9,000 m, with different resolution and swath widths.

- Our CTD rosette has Oxidation-Reduction Potential (ORP), Light Scattering (LSS), and Dissolved Oxygen DO sensors and can be deployed to 6,000 m. The ROVs are also equipped with the same sensors and data are collected on every dive.

- All data collected with *Okeanos Explorer*, including physical samples, will be made publicly available as soon as possible. Digital data is typically available 60-90 days after a cruise and physical samples are provided to public repositories at the end of the field season.

You may also find additional information about the [data and products](#) produced by the *Okeanos Explorer* team and an overview of [2018 operations](#) useful as you prepare your submissions.

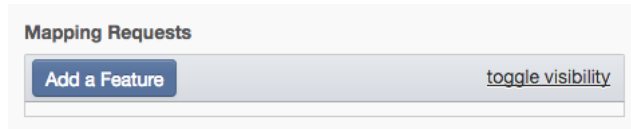
Following consideration of all submissions, draft cruise plans will be developed and discussed during collaborative cruise planning meetings. OER highly encourages those who submit recommendations to join the expedition as a member of the shore-based science team. **If you need assistance please contact: [ex.expeditioncoordinator@noaa.gov](mailto:ex.expeditioncoordinator@noaa.gov). If you wish to further discuss science interests, please contact Dr. Scott France ([france@louisiana.edu](mailto:france@louisiana.edu)).**




#### 4. Adding a Mapping Request

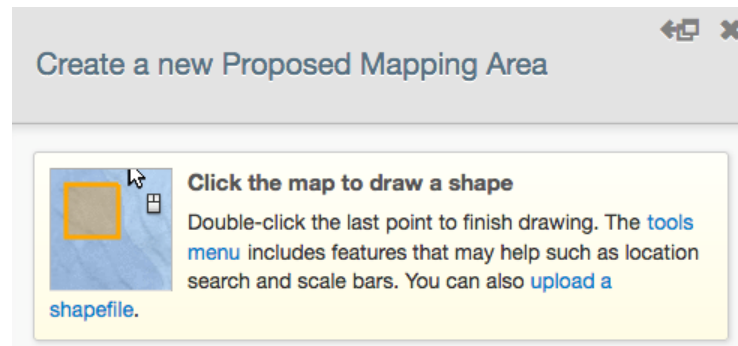
Scroll down to “Mapping Operations”.

- a. Under Mapping Operations click 



#### Note:


Once you click “Add a Feature” you will be prompted to select a mapping area of interest. Click on the chart to draw a shape. You can also click “ESC”, click  or click “cancel” on the bottom of the screen to undue any unwanted features.



- b. After selecting your mapping feature, fill out the form that accompanies the “Add Feature” tab. Adding Location Name, Request Name, etc.



Create a new Proposed Mapping Area← ×



**Your Design Has Been Captured**

*Click here to edit it.*

**Location Name \***

**Request Name \***

Please provide a name for your mapping request. This can be based on the feature that needs to be mapped (e.g. Ahi Seamount) or on the type of request (e.g. hydrothermal vent mapping).

**What type of sonar(s) is this request for? \***

Okeanos Explorer has 8 scientific sonars: Kongsberg EM302 Multibeam (32 kHz); Knudson 3260 Sub Bottom Profiler (3.2 kHz); Simrad EK60s Single Beam (18 kHz, 70 kHz, 120 khz, 300 kHz); Teledyne Ocean Surveyor ADCP. We standardly run all of the sonars except the 38 kHz EK60 and the ADCP concurrently. Please indicate which sonar you would like to use.

**Coverage Type \***

Are you looking for 100% bottom coverage including flat areas, or a focus on coverage of major features?

**For ROV Dive Planning? \***

Is this mapping data requested to inform ROV dive planning?

**Rationale for Exploration \***

Please provide a brief explanation of mapping objectives, the rationale for the specific mapping area, and how the mapping fits regional priorities and data gaps.

Once the form is filled out click . You can add as many mapping areas of interest as you like.

## 5. Adding ROV Targets

Scroll Down to ROV Targets

- a. Under ROV Targets click 

**ROV Targets**


This section is to be used to submit proposed ROV dive plans. These can be general placeholders to be further developed if selected. Please note if your target is selected, we will need additional information and ask that you participate in community dive planning calls to refine the final plans for the dive.

If you submit multiple dive plans, please indicate the relative priority of each by including a priority number in the dive site name (highest priority = 1).

Please note that no ROV operations are being considered in the operating area south of Bermuda in 2018. This will be a mapping only cruise.

**Site Name**

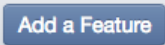
Please indicate the relative priority of multiple dive sites by including a priority number in the dive site name (highest priority = 1).




 [toggle visibility](#)

Here is a sample with dive site priority numbers


**Site Name**

Please indicate the relative priority of multiple dive sites by including a priority number in the dive site name (highest priority = 1).

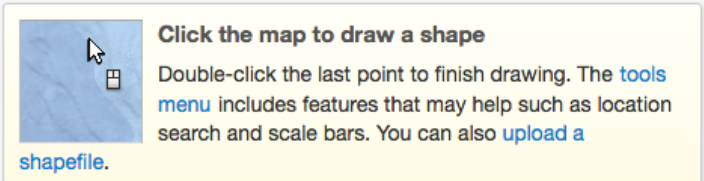
 [toggle visibility](#)

Example - 1	<a href="#">edit</a> 
Example - 2	<a href="#">edit</a> 
Example - 3	<a href="#">edit</a> 

**Note:**

Once you click “Add a Feature” you will be prompted to propose a ROV Dive Site. Click on the chart to draw a point. You can also click “ESC”, click  or click “cancel” on the bottom of the screen to undue any unwanted features.

Create a new Geographic\_Features



**Click the map to draw a shape**  
Double-click the last point to finish drawing. The [tools menu](#) includes features that may help such as location search and scale bars. You can also [upload a shapefile](#).

- b. After selecting your feature, fill out the form that accompanies the “Add Feature” tab. Adding Location Name, Depth Range, etc.


**Location Name \***


**Depth Range \***

Please indicate the starting and ending depth in meters.

**Rationale for Exploration \***

Please provide a brief explanation of the objectives of the dive, the rationale for the specific dive track, and how the dive addresses regional priorities or data needs. Has previous work been conducted here? Are there any known hazards at this site?

Once the form is filled out click  . You can add as many Proposed ROV Dive Sites as you like.

6. Once you are finished adding features you are ready to complete your survey by clicking  . Thank you for your participation!