

How-To Guide: MarineCadastre.gov National Viewer

Updated October 4, 2019

The MarineCadastre.gov National Viewer provides interactive mapping of data available through the MarineCadastre.gov Data Registry that have compatible Esri REST services associated with them. This document is a quick reference for how to use the viewer.

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Opening the National Viewer

The MarineCadastre.gov National Viewer is located at marinecadastre.gov/nationalviewer

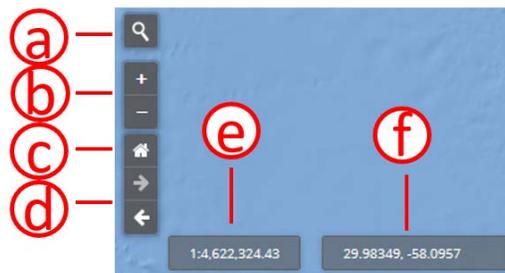
There are four main components of the national viewer:

1. Map Functions and Information
2. Toolbar
3. Layer Contents and Search
4. Footer Links



1. Map Functions and Information

- a. Location/Gazetteer Search
- b. Zoom In/Out
- c. Zoom to Home Extent
- d. Forward/Backward in Map Extent
- e. Current Map Relative Scale
- f. Coordinate Location in Decimal Degrees



2. Toolbar

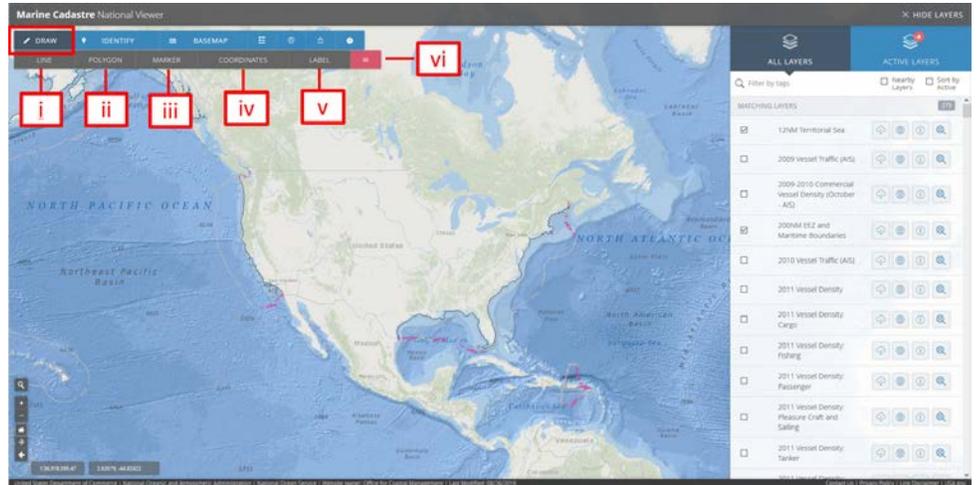
- a. Draw Tools
- b. Identify Tool
- c. Select a Basemap Tool
- d. Show Legend
- e. Print Map
- f. Share Map
- g. Help (this PDF tutorial)



2.a. Draw Tools

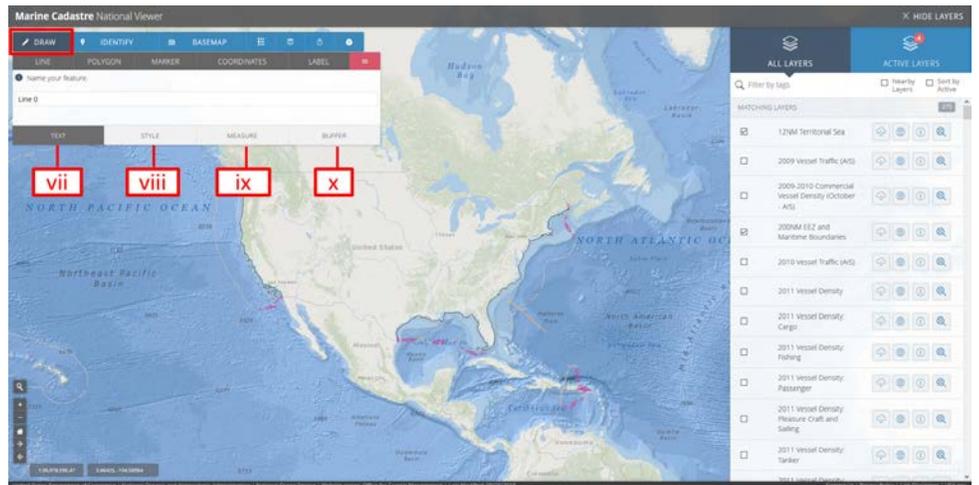
Selecting **Draw** from the Toolbar provides these options:

- i. Line
- ii. Polygon
- iii. Marker
- iv. Coordinates
- v. Label
- vi. Edit



For a feature drawn on the map, the following options are available:

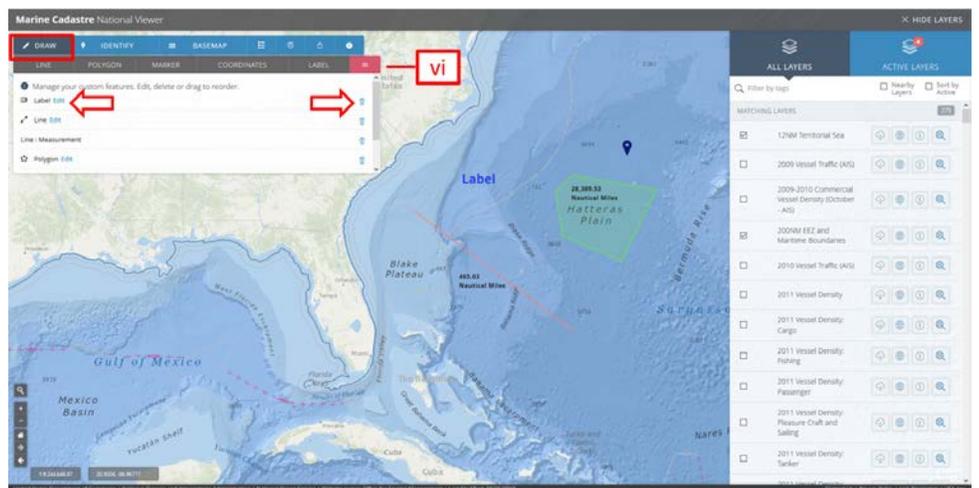
- vii. Text
- viii. Style
- ix. Measure
- x. Buffer



Select the **Edit** icon (vi) to delete or edit drawings.

Select the word **Edit** next to relevant feature to rename it, change the style, change the measurement, etc.

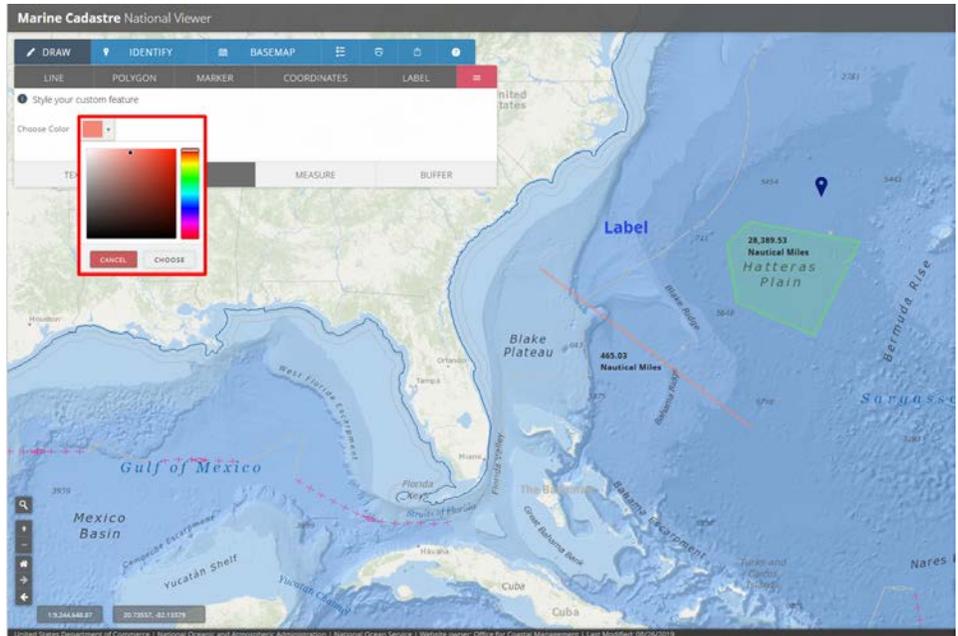
To delete a drawing, select the **Trash Can** icon associated with that feature.



Text – Type in a name for the feature.



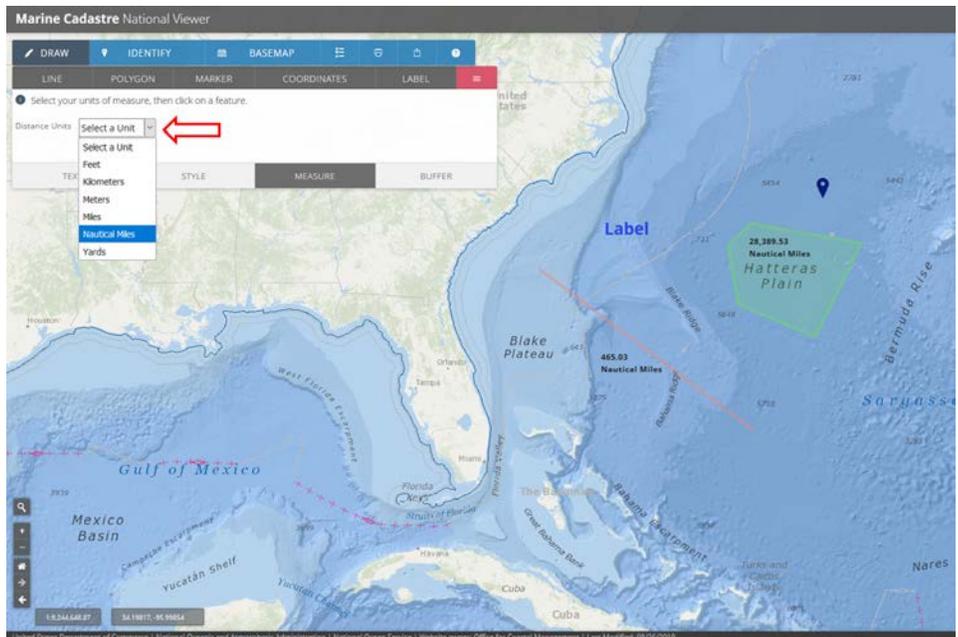
Style – Use the **Choose Color** selector to choose the color.



Measure – Select desired Distance or Area Units, and the distance or area will be displayed near the feature on the map.

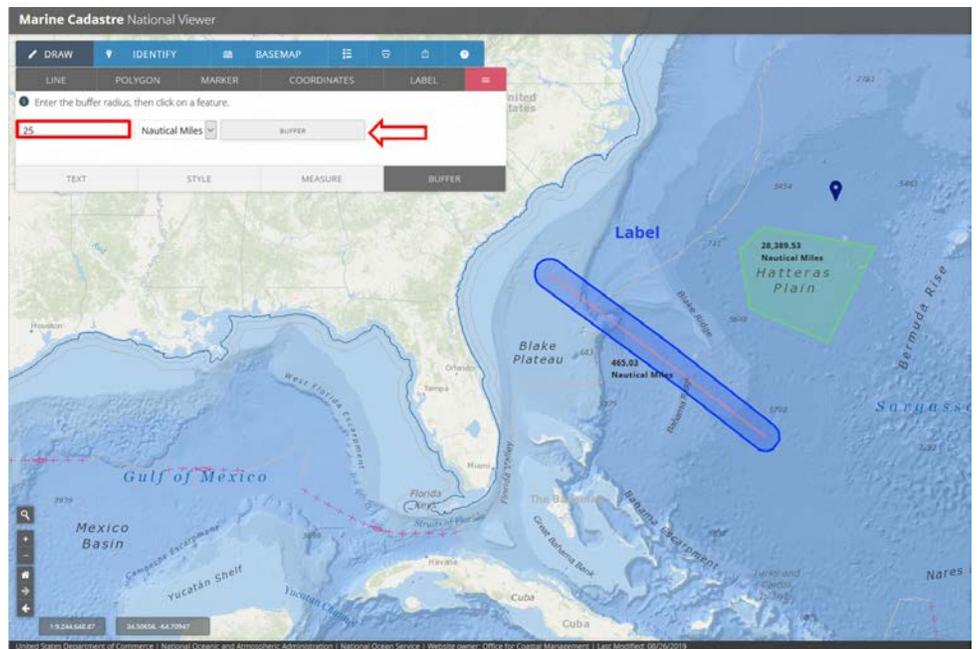
For multiple drawings, select which drawing to measure.

Please note: the Measure option is not available for Marker Symbols.



Buffer – Enter the desired distance, select the desired units, and select **Buffer**.

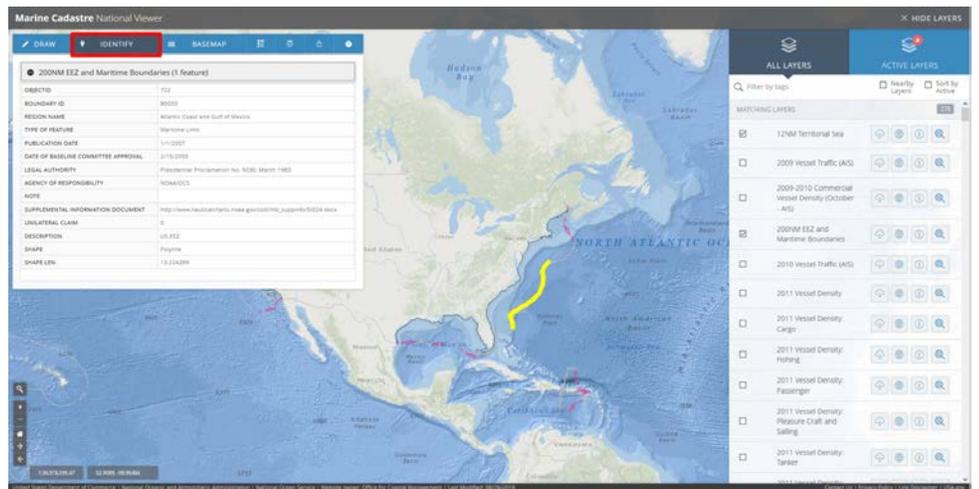
A blue highlighted buffer appears around your selected feature.



2.b. Identify Tool

Select **Identify** and click on an active layer in the map view to scroll through the attribute information pertaining to that feature.

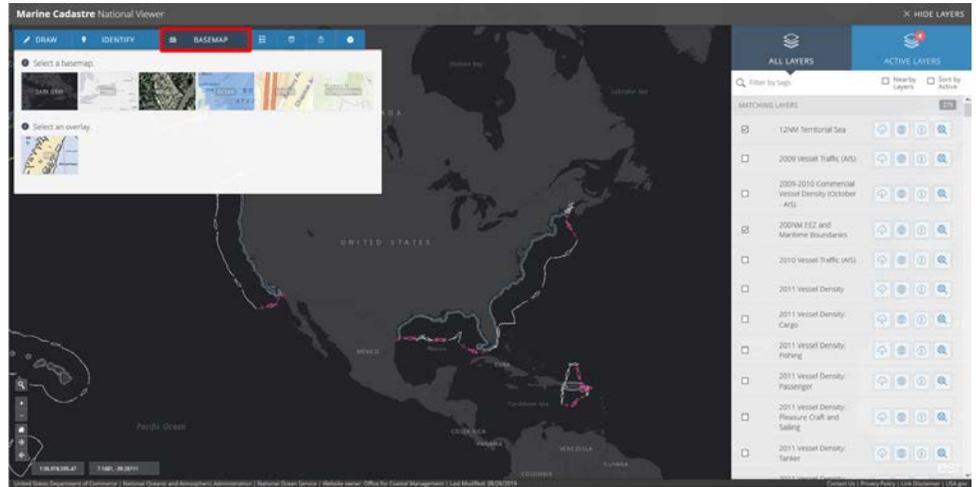
Note: If more than one active layer is present in that area, attribute listings for all data are listed. These listings are sorted by layer, and expanding each layer will show all features found where you clicked in the map. Hovering over individual listings will highlight each feature on the map in yellow. If a layer has been made 100% transparent, it will still return results in the listing.



2.c. Basemap Tool

Select **Basemap** and choose one of the seven options available.

Tip: The NOAA Raster Nautical Charts (RNCs) are also found in the Layer panel, if you are interested in using these as a layer. The RNCs may be used along with any of the other basemap layers. Adjust the transparency of the RNCs to see through to the underlying basemap or block it out.

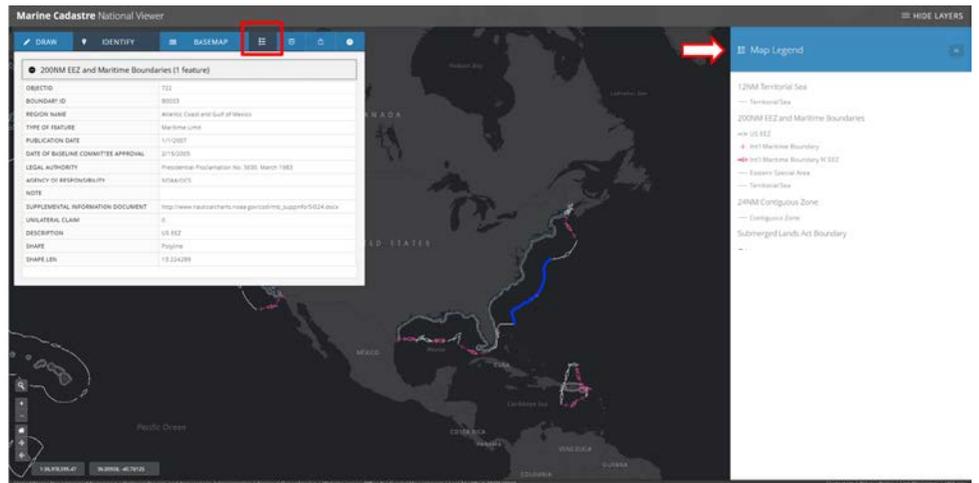


2.d. Show Legend Tool

Select the **Legend** icon.

The Map Legend will appear in place of the Layer Contents panel. Layers are listed in the order they appear in the Active Layers tab. The Active Layers list can be organized by dragging the layers.

Note: the legend only shows active layers hosted on MarineCadastre.gov. Legend symbols for the basemaps are not shown.



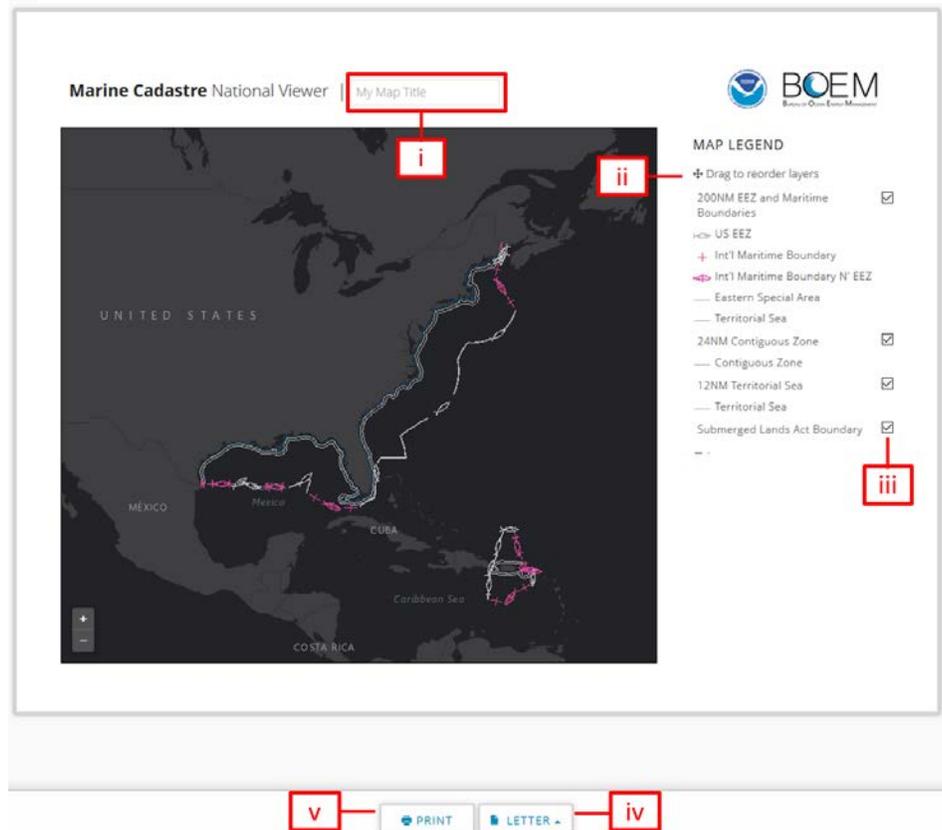
2.e. Print Tool

Select the **Printer** icon to open a new tab in the browser session.



From here you can –

- i. Title the map.
- ii. Reorder layers within the legend. Select a layer's name, then drag it to the desired location.
- iii. Select legend items to print, using the check boxes to the right of the layer listing.
- iv. Select the page format to be printed.
- v. Print the map by selecting the PRINT button.

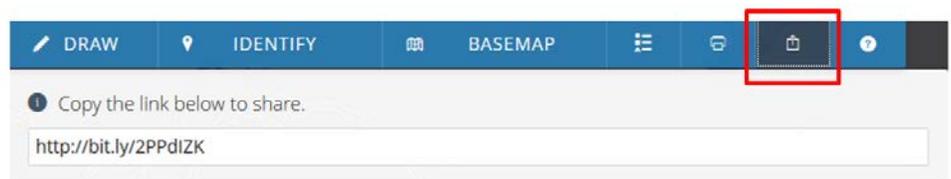


2.f. Share Tool

Select the **Share** icon.

Copy the link using **Ctrl + C**, and then paste the link in an email or chat to share it.

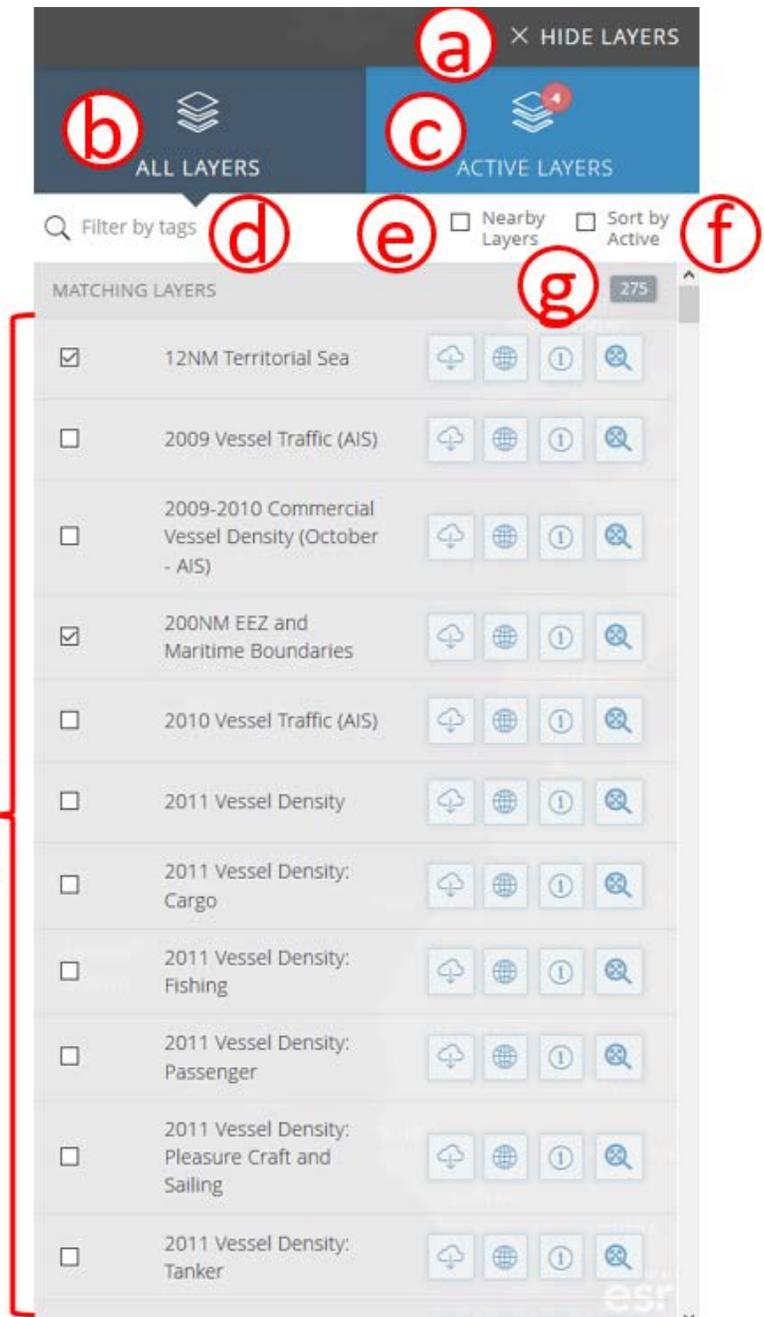
Note: the custom URL retains layer ordering and opacity.



3. Layer Contents and Search

- a. Hide Layers
- b. All Layers listing
- c. Active Layers listing
- d. Layer Search
- e. Nearby Layers (limit listing to nearby layers)
- f. Sort by Active (sort layer listing, with active layers at top of Layer Contents panel)
- g. Matching Layers (number of layers that meet search criteria)

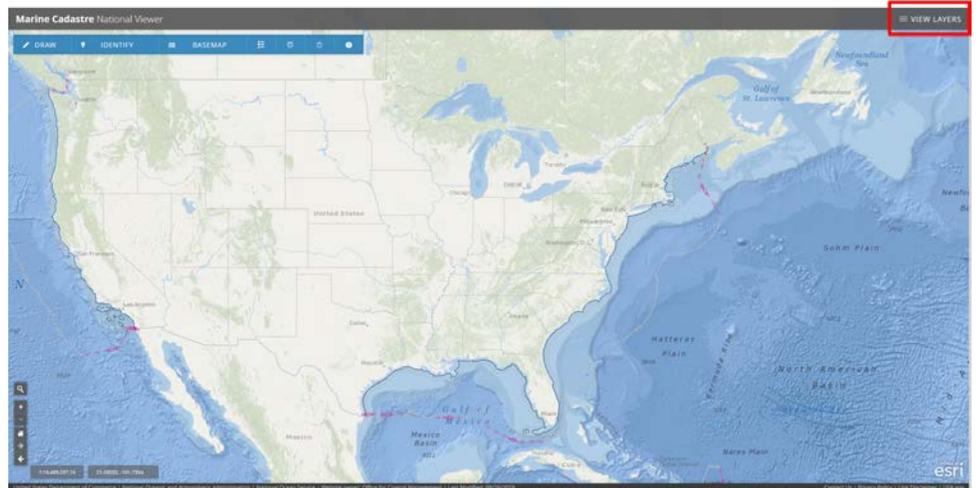
Layer Listing



3.a. Hide Layers

Select **Hide Layers** to hide the Layer Contents panel.

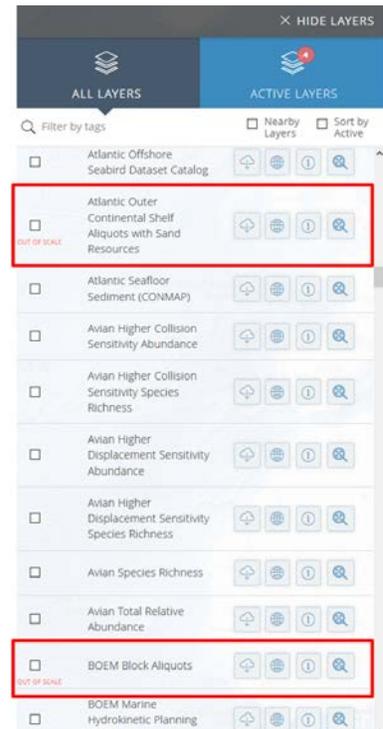
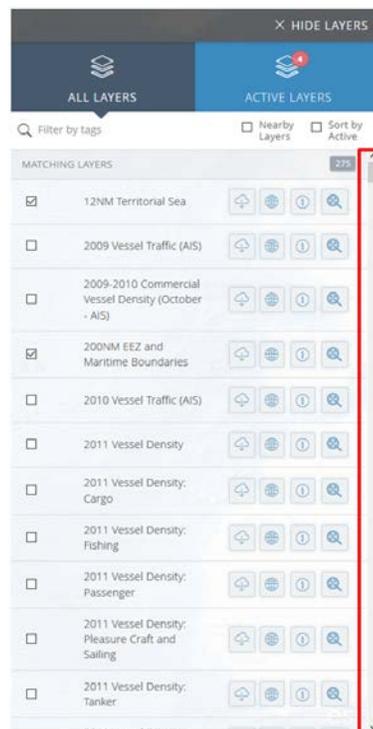
The Layer Contents panel can be displayed by selecting **View Layers**.



3.b. All Layers Listing

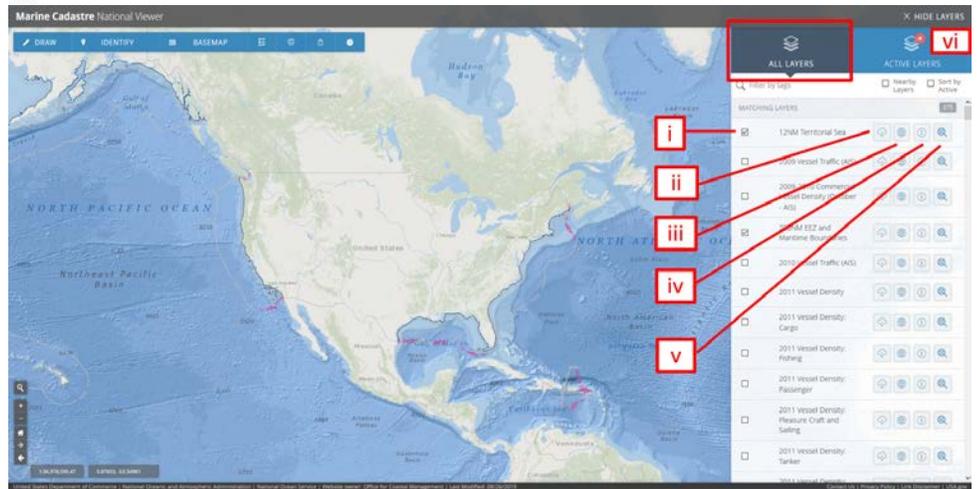
The image on the left shows the scrollbar for scrolling through the layer listing.

The image on the right shows layers with the “out of scale” notice. Zoom in or out within the map to view each of these layers at the proper scales.

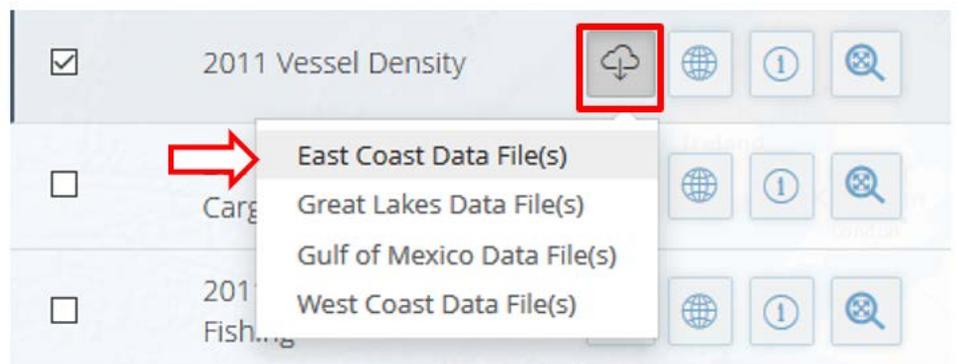


- i. Toggle layer on or off
- ii. Data Download
- iii. Map Service
- iv. View Layer Properties
- v. Zoom to Layer Extent
- vi. Active Layers Listing

Note: The number icon associated with Active Layers changes when layers are toggled on or off.



To download GIS data, choose the **Data Download** icon, where there will be one or more data download files associated with this layer. Choose the desired option and the file will automatically download. If downloadable data are not available, the button will not work and will appear light gray.

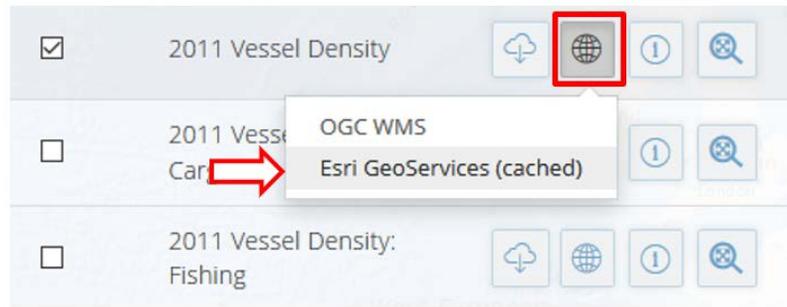


Note: In some cases, you will be directed to a download page at the source provide, where you will choose the layer you are interested in.

The **Map Service** icon displays the map service links available for this layer.

The following are potential types of services that can be found here:

- Esri GeoServices (cached)
- Esri GeoServices (dynamic)
- Esri GeoServices (feature)
- Esri GeoServices (image server)
- GeoJSON
- OGC KML
- OGC WMS



Select the **View Layer Properties** icon to view a detailed description for the layer.



View Layer Properties provides further details about that specific layer.

Here is what can be found on the Layer Properties page:

- a) Layer Title
- b) Layer Source
- c) Associated Links: Data, Services, and More Info
- d) Description of the Layer
- e) Visible Scale Range
- f) Legend
- g) Additional Keywords (also known as Tags)

The screenshot shows the '2011 Vessel Density' layer properties page. Annotations a-g point to the following elements:

- a)** Layer Title: 2011 Vessel Density
- b)** Layer Source: MARINECADASTRE.GOV
- c)** Associated Links: DATA, SERVICES, MORE INFO
- d)** Description of the Layer: DESCRIPTION
Automatic Identification Systems (AIS) are a navigation safety device that transmits and monitors the location and characteristics of many vessels in U.S. and international waters in real-time. This dataset represents the density of all vessel traffic in 2011 for the US Atlantic and West Coast from vessels with AIS transponders in 100 meter grid cells. The dataset is best interpreted using a high to low density scale and does not represent actual vessel counts.
- e)** Visible Scale Range: VISIBLE SCALE RANGE
0 to 0
- f)** Legend: LEGEND PATCH
2011 Vessel Density
High : 675.156
Low : 0
- g)** Additional Keywords: ADDITIONAL KEYWORDS
AIS, ATLANTIC, COAST, EAST, GREAT, GULF, LAKES, MARINE, MEXICO, NOAA, OBSERVED, OCEAN, PACIFIC, SHIP, SHIPPING, TRAFFIC, TRANSPORTATION, USES, VESSELS, WEST

Associated Links

Data – Data download links – see Data Download section above.

Services – Web map service links – see Map Service section above.

More Info – Additional links that are important to this layer. These can include but are not limited to

- Data Pages
- Metadata
- Publications
- Source Info
- Source Map
- Uses

Click the **X** in the upper left hand corner of the Properties page to return to the Layer Contents panel.

2011 Vessel Density
MARINECADASTRE.GOV

DATA SERVICES **MORE INFO**

DESCRIPTION

Automatic Identification Systems (AIS) are a navigational aid that transmits and monitors the location and characteristics of vessels in U.S. and international waters in real-time. This dataset shows the density of all vessel traffic in 2011 for the US Atlantic and west Coast from vessels with AIS transponders in 100 meter grid cells. The dataset is best interpreted using a high to low density scale and does not represent actual vessel counts.

VISIBLE SCALE RANGE
0 to 0

LEGEND PATCH

2011 Vessel Density
High : 675.156
Low : 0

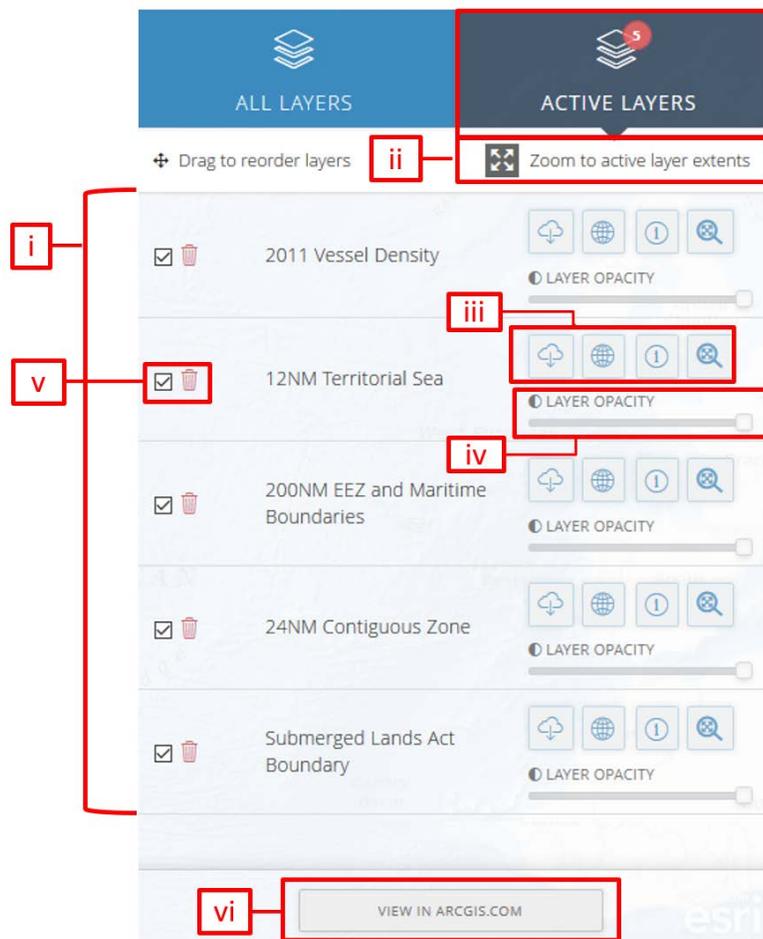
ADDITIONAL KEYWORDS

• AIS • ATLANTIC • COAST • EAST • GREAT • GULF
• LAKES • MARINE • MEXICO • NOAA • OBSERVED • OCEAN
• PACIFIC • SHIP • SHIPPING • TRAFFIC • TRANSPORTATION
• USES • VESSELS • WEST

3.c. Active Layers Listing

- i. Active Layers
- ii. Zoom to extent of all active layers
- iii. Associated links and functionality per layer. (See 3.b. for details).
- iv. Layer Opacity slider – allows you to apply a transparency to a layer
- v. Click box to toggle layer on/off, or select the Trash Can to remove the layer
- vi. Launches and opens all Active Layers in ArcGIS.com

Tip: Reorder layers within the listing as needed. Select a layer's name, then drag and it to the desired location.



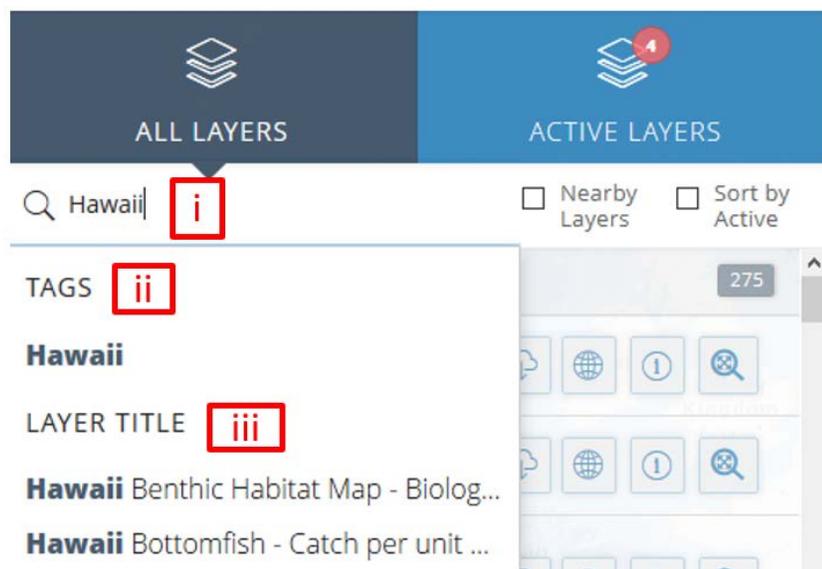
3.d. Layer Search

- i. Text entry for search terms
- ii. Search results for Tags
- iii. Search results for Layer Title

Once you enter your search terms, either press Enter or select the desired option in the drop-down menu.

Pressing Enter after typing in text will search the layers by associated tags, as well as words in the title and description.

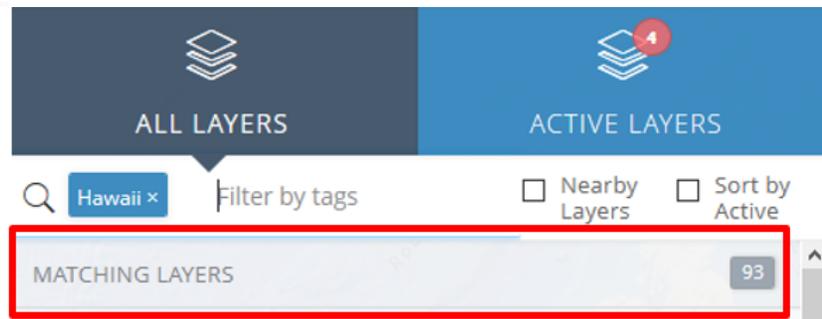
Selecting a tag option will return all the layers carrying that tag listing.



3.e. Matching Layers

Once you perform a search, the Matching Layers number will reflect the layers associated with your search. To clear the search term, click the 'x' next to it.

Note: When first opening the National Viewer, this number will show the total number of layers able to be viewed.



4. Footer Links

- a. Contact Us form: coast.noaa.gov/contactform
- b. NOAA Office for Coastal Management Privacy Policy: coast.noaa.gov/PrivacyPolicy/privacyPolicy.html
- c. Disclaimer: marinecadastre.gov/about/disclaimer.html
- d. USA.gov Link: www.usa.gov

