

MAVLOG

MARINE VESSEL LOGISTICS



MAVLOG Marine Vessel Logistics

Quick Start Guide

Marine Vessel Logistics (MAVLOG)



Overview

This document was developed to assist individuals in quickly getting up and running with *Marine Vessel Logistics (MAVLOG)*.

Intended Audience

This document was written for all MAVLOG users.

About MAVLOG

MAVLOG is a logistics monitoring platform that utilizes vessel AIS returns to assist operators with vessel tracking, ETA calculation, fleet and point-of-interest management.

Current Version

MAVLOG (July 2022 Release)

Getting Started



Logging Into MAVLOG

1. Navigate to [MAVLOG](https://onemap-critical.bpglobal.com/apps/MAVLOG_Dev/index.html) in **Google Chrome** or **Microsoft Edge** internet browser

MAVLOG URL: https://onemap-critical.bpglobal.com/apps/MAVLOG_Dev/index.html

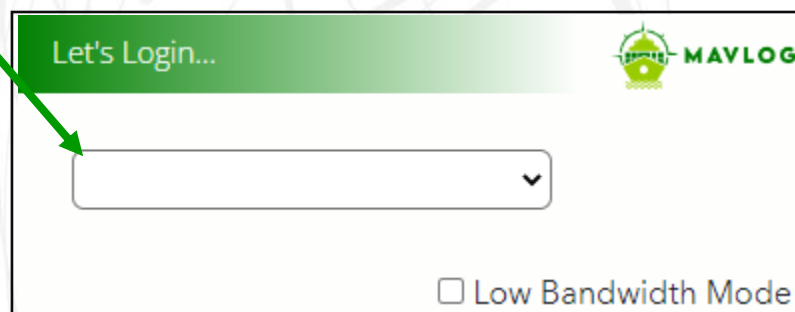
When prompted, choose BP Active Directory

2. When prompted select your region of interest

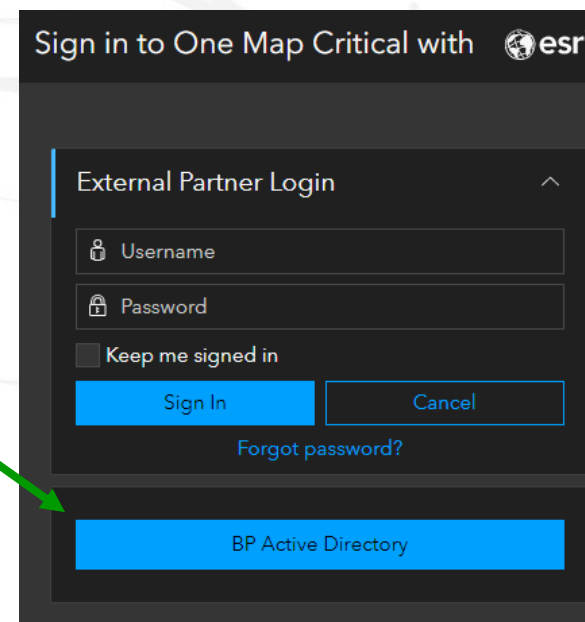
Administrative Note:

In order to create a MAVLOG account, a new user must first visit the [Critical Portal](https://onemap-critical.bpglobal.com/portal).

<https://onemap-critical.bpglobal.com/portal>



The MAVLOG login screen features a green header with the text "Let's Login..." and the MAVLOG logo. Below the header is a white input field with a dropdown arrow. At the bottom right, there is a checkbox labeled "Low Bandwidth Mode". A green arrow points from the "When prompted select your region of interest" instruction to the input field.



The One Map Critical login screen has a dark theme. At the top, it says "Sign in to One Map Critical with esri". Below this is a section titled "External Partner Login" with fields for "Username" and "Password", a "Keep me signed in" checkbox, and "Sign In" and "Cancel" buttons. A "Forgot password?" link is also present. At the bottom, a large blue button labeled "BP Active Directory" is highlighted with a green arrow pointing to it from the "When prompted, choose BP Active Directory" instruction.

Tip: Use Low Bandwidth Mode if MAVLOG is not performant in regular mode

MAVLOG Web Map Application Overview

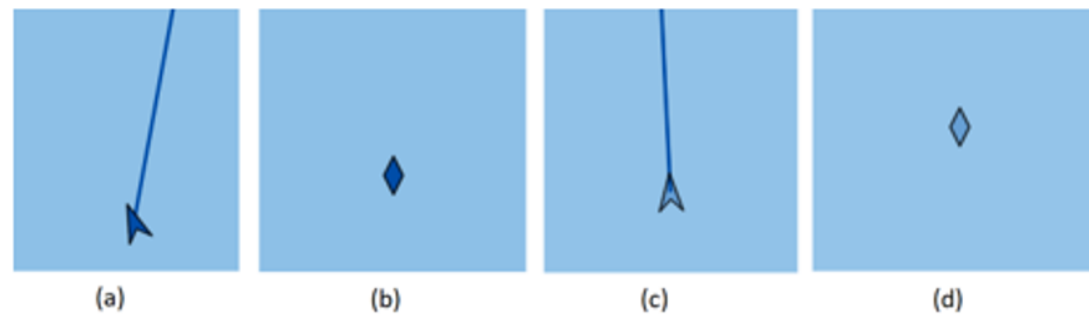


MAVLOG Vessel Symbols and Status Identification



MAVLOG will only display vessel(s) in a fleet on the map. Vessels display differently based on several rules. Vessels that are moving will be arrows and stationary vessels will be diamonds. Vessels with positions reported within the last hour will be a solid color while vessels with positions reported more than one hour ago will be semi-transparent (lighter color). Moving vessels will have the arrowing pointing at the vessel's heading and a line plotting the course and distance the vessel will cover within the next 6 minutes. The color of the vessel is dependent on the color assigned to the fleet in which it participates.

Vessel Symbol Examples



- a) Moving vessel with last reported position within the last hour.
- b) Stationary vessel with last reported position within the last hour.
- c) Moving vessel with last reported position more than one hour ago.
- d) Stationary vessel with last reported position more than one hour ago.

MAVLOG Web Map: Navigation & Content



The screenshot displays the MAVLOG Web Map interface. At the top, there's a navigation bar with the MAVLOG logo, a status bar showing 'MapMode', 'Weather', and 'Bearing/Distance', and a set of icons for navigation and map controls. The main map area shows a coastal region with labels for San Antonio, Victoria, Corpus Christi, Reynosa, and Brownsville. A yellow callout box labeled 'Navigation & Content' points to a vertical toolbar on the left side of the map. This toolbar contains icons for zooming in/out, zooming to region extent, map layer contents, map layer legend, and changing the basemap. A second callout box labeled 'Map Layer Content' points to a panel on the right side of the map. This panel lists several map layers: 'Weather Radar - North America', 'Global Vessels Outline', 'BP Regions Gazetteer', and 'USA Official Protraction'. Each layer has an eye icon to toggle visibility and a hamburger menu icon to expand its details. Red arrows point from the callout text to these specific icons. At the bottom of the map, there's a scale bar (100 km / 60 mi), a coordinate display (XY: -90.077073°, 23.149065°), and a status bar showing 'Gulf of Mexico (Jeff Davis) - Test Role' and the time '04:29 AM CDT/09:29 GMT'.

Navigation & Content

- Zoom In
- Zoom Out
- Zoom to Region Extent
- Map Layer Contents
- Map Layer Legend
- Change basemap

Map Layer Content

- Click ☰ button to expand map layer contents
- Click 👁 to turn layers on/off
- Click to hide layer contents window
- Click to expand layer legend
- Click to expand layer information

MAVLOG Web Map: Application Modes



The screenshot displays the MAVLOG Web Map interface. At the top, a navigation bar contains three application modes: MapMode (checked with a green checkmark), Weather, and Bearing/Distance. A red box highlights these modes, with a yellow label 'Application Modes' pointing to them. Three callout boxes provide details for each mode:

- MapMode:**
 - MAVLOG default display
 - Interface to interact with web map
 - Pan
 - Zoom in/out
 - Zoom to Region full extent
 - Turn on/off layer
 - ✓ indicates active tool
- Weather:**
 - Tool to identify weather at selected Lat/Long
 - Opens Weather Information Window
 - Refer to page 8 for a detailed explanation of this tool
- Bearing/Distance:**
 - Tool to measure a distance between points
 - Tool to calculate bearing between two points
 - Refer to page 9 for a detailed explanation of this tool

The map shows the Gulf of Mexico with various vessels and points of interest labeled, such as OCEAN TERROR, MS CHARLOTTE, and HARVEY EXPLORER. The interface includes a search bar, a scale bar (100 km / 60 mi), and a status bar at the bottom with coordinates and a timestamp.

Map Application Modes: Weather Tool



Weather

1 Current

2 Wind Barb

3 Hourly Data

4 Daily Data

Apparent Temp(C) 26	Cloud Cover Clear	Cloud Cover% 7
Day/Night night	Day Monday	Moon Phase Waxing Crescent Moon
Obser.Time 2021-11-08 19:00:00	Pressure(mb) 1013	Station S6AN5
Visibility(m) 20000	Wx Clear	Wind Dir. S
Relative Humidity% 84	Wind Speed(kph) 24	Dew Pt.(C). 23

Weather Tool:

- The mark next to *Weather* tab indicates it is active
- To deactivate *Weather* tool, click on MapMode or Bearing/Distance tool
- Click any location on map to open its localized weather report
- Click to expand/collapse *Weather* display window
- Click to close *Weather* display window

Weather Report Window Tab Overview

1. **Current** – information on current temperature, wind speed, wind direction, etc.
2. **Wind Barb** – displays 10-day wind forecast
3. **Hourly Data** – 10-day hour-to-hour weather forecast
4. **Daily Data** – 10-day daily weather forecast

Map Application Modes: Bearing/Distance Tool



Bearing/Distance Tool:

1. Click on the map to establish a “from” location
2. Click on the map a 2nd time to calculate the bearing and measure distance to the “to” location
3. Click on a 3rd and 4th location to continue calculating bearing and distance between each “from”/”to” point

- Click to clear bearing/distance calculation
- The mark next to *Weather* tab indicates it is active
- Click to **close** bearing/distance tool
- Distance unit = meter
- Bearing = degrees from grid north

Tip: Dynamic Bearing /Distance

Hold the *Shift* key while moving your cursor to dynamically display bearing and distance

Map Application Interface:

- Top bar: MapMode Weather Bearing/Distance
- Map: Gulf of Mexico, showing vessels like OCEAN TERROR, BIMINI BABE, and MS CHARLOTTE.
- Bottom bar: Vessel info Zoom to Select POI
- Status: Gulf of Mexico (Jeff Davis) - Test Role 04:29 AM CDT/09:29 GMT

MAVLOG: Map Information and Tools



The screenshot displays the MAVLOG application interface. At the top, there's a navigation bar with the bp logo, the MAVLOG logo, and status indicators for MapMode (checked), Weather, and Bearing/Distance. A row of icons for various tools is visible. The main map area shows the Gulf of Mexico with several vessel icons labeled with names like OCEAN TERROR, ISLAND VENTURE, MISS MARY, and others. A yellow box highlights the 'Map Information and Tools' section. A white overlay box contains the following information:

Map Information and Tools:

- Click to open the *Fleet Manager* tool (See page 11 for detailed explanation).
- Click to open the *POI Manager* tool (See page 13 for detailed explanation).
- Click to clear map graphics (e.g. bearing/distance calculations).
- Click to open current MAVLOG application information and to email the MAVLOG support team. Help documentation is available here for consumption.
- Click to open the Admin Dashboard. (Work-In-Progress...details to come).
- Click to open MAVLOG User Testing Feedback form. Form allows users to leave comments concerning bugs, suggested improvements, interface questions, etc.
- Click to search for POI/vessels by MMSI, IMO, Name or Call Sign

At the bottom of the interface, there's a search bar with 'Vessel info' and 'Zoom to' options, and a status bar showing coordinates and time.

Map Information and Tools : Fleet Manager



Fleet Manager:

- The Fleet Manager window displays all fleets owned/shared to the current user.
- Click on the **Add** button to create a new fleet
- Click on a fleet's name to select. Once selected use the *Update*, *Delete*, or *Share Fleet* button to perform the desired operation
- Click on a fleet's name then click to zoom the map to the extent of the vessel(s) in the fleet.
- Fleet's with a to the left of their name will be visible in the map
- Fleet's with a to the left of their name will not be visible in the map
- To change a fleet's map visibility click the symbol to the left of the fleet's name, then check/uncheck its box
- Click to minimize the Fleet Manager window
- Click to close the Fleet Manager window
- Click to add/remove vessels from a fleet (see page 12 for detailed explanation)

Visibility	Name (Owner)	Color	
	Construction (Kurt Copeland)		
	MODU (Blake LeBlanc) (Blake LeBlanc)		
	UAT Fleet (Jeff Davis)		

The owner of the fleet is identified in parentheses next to the fleet name.

Toolbar: Add, Update, Delete, Share Fleet, ,

Update Fleet

Name: UAT Fleet

Color:

Buttons: Save,

- To update a fleet click **Update** then:
- Rename the fleet (if applicable)
 - Click on the colored box to change its color

Sharing Fleet

Fleet Name	Selection	Account Name
GOM AMIC Whitelist		
MODUs		
UAT Fleet		
UAT Fleet 1		
UAT Fleet 2		

Buttons: Save,

- To share/unshare a fleet:
- Select a fleet by clicking on its name in the Fleet Manager window
 - Click on the **Share Fleet** button
 - Check or uncheck the box to the left of a user's name to share (checked) or unshare (unchecked) the selected fleet

Note: only the fleet owner can share a fleet

Fleet Manager: Add/Remove Vessel

Fleet Manager

Visibility	Name (Owner)	Color		
✓	Construction (Kurt Copeland)			
✓	MODU (Blake LeBlanc) (Blake LeBlanc)			
✓	UAT Fleet (Jeff Davis)			+

MMSI / IMO / Shipname

example: 235060454

Fleet Name	Ship Name	MMSI	IMO	
UAT Fleet		338365272		
UAT Fleet	OCEAN TERROR	338355085		
UAT Fleet		338366542		
UAT Fleet		338371109		
UAT Fleet		338384136		
UAT Fleet		338397213		
UAT Fleet		338431324		
UAT Fleet		366842570		
UAT Fleet		367649160		
UAT Fleet	A WORK OF ART	367707170		
UAT Fleet	BIMINI BABE	367658420		
UAT Fleet	BLUE RUSH	368201170		
UAT Fleet	BLUEPRINT	368229990		
UAT Fleet	BUGGY WASHER	368046220		

Add

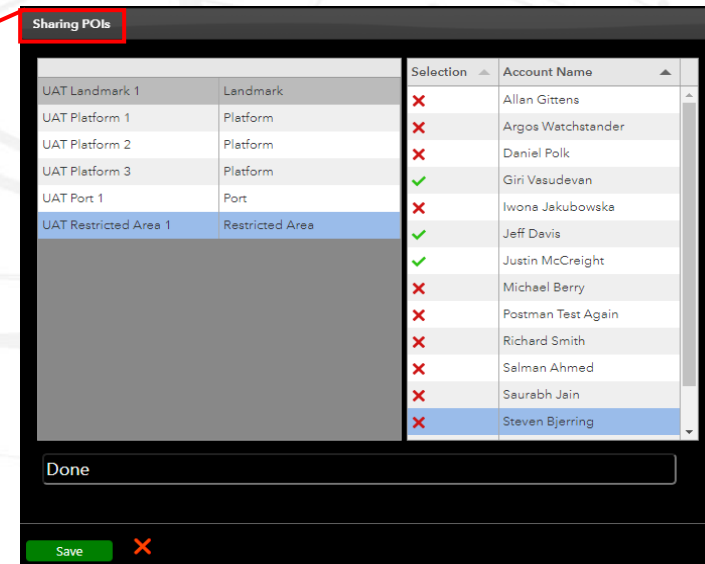
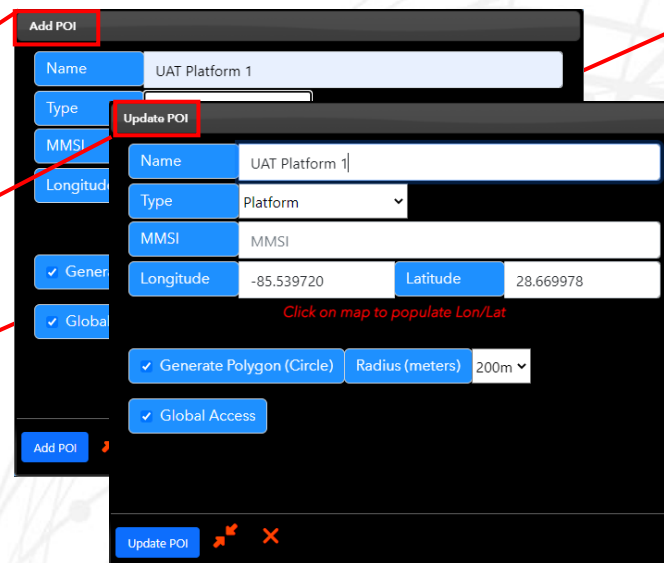
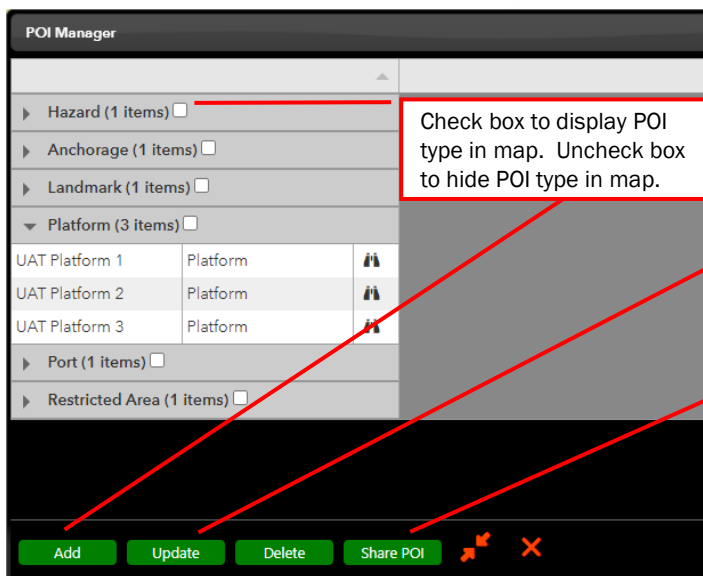
Update

Fleet Manager - Add/Remove Vessel:

- Click + next to the fleet name you want to add/remove vessels
- Type the vessel's MMSI/IMO/Shipname in the search box then select it from the drop-down list to add it to the fleet
- Click  next to the vessel to delete it
- Click  to minimize add/remove vessel window
- Click  to close the add/remove vessel window

Note: only the owner of a fleet can add/remove vessels

Map Information and Tools : POI Manager



POI Manager:

- List all POI's owned by or shared to MAVLOG user.
- POI's are grouped by POI type
- Click to list the POI's of a specific type
- Click to the right of a selected POI to zoom to its location
- Click on a POI to select it then click to delete it
- Click to minimize or to close the POI Manager

Note: only the POI owner can delete a POI

Add/Update POI:

- Click on to open the *Add POI* window
 - Name the POI using the *Name* window
 - Use the *Type* dropdown menu to select a POI type
 - Enter the Latitude/Longitude or click on a location on the map to populate the its coordinates
 - Click on *Generate Polygon* check box to buffer the POI point 100, 200, or 500 meters
 - Click on *Global Access* check box to make a POI visible to all MAVLOG users
- Click on to open the *Update POI* window
 - Use the *Update POI* window to change any of the values entered when the POI was created

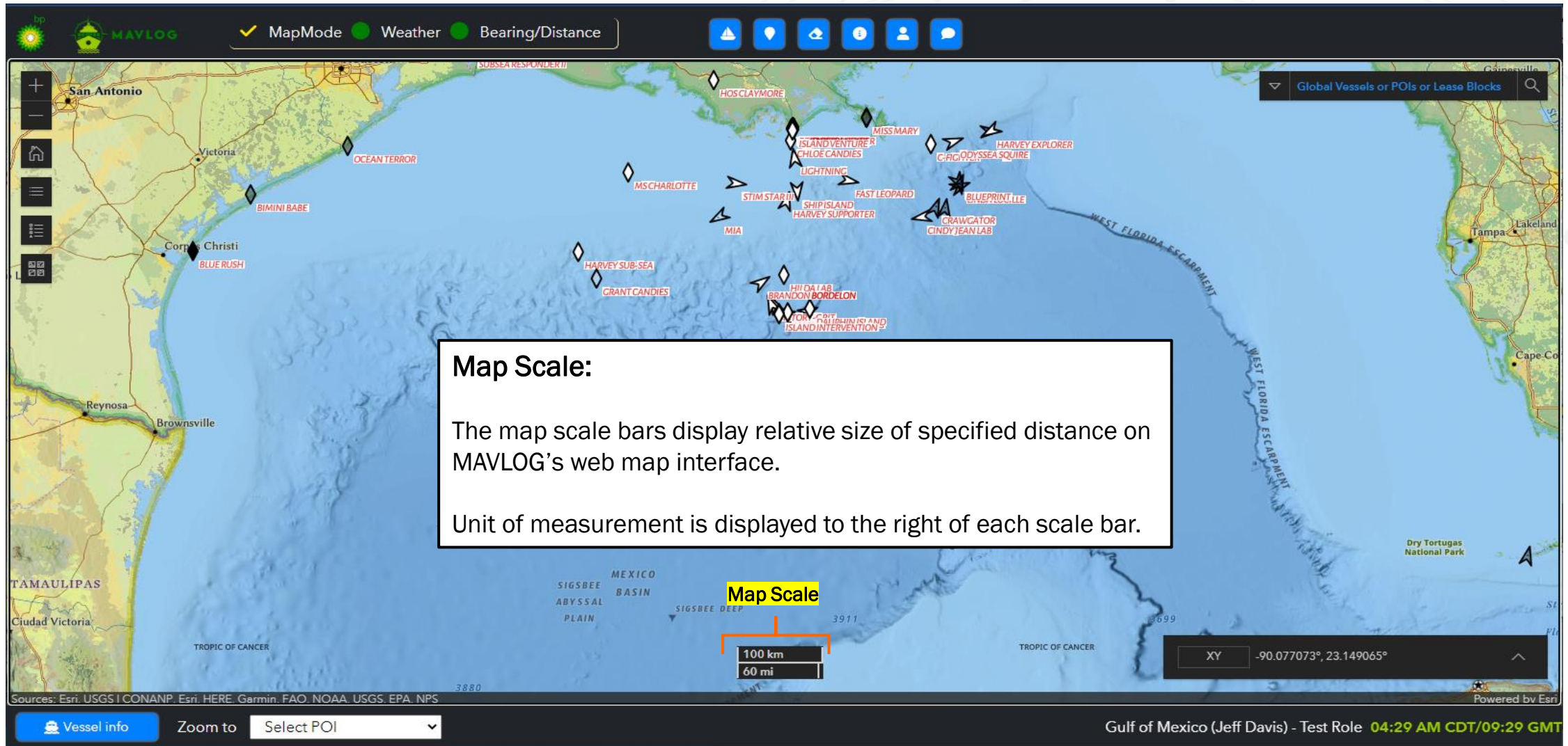
Note: only a user with Operator Admin permissions can grant Global Access to a POI

Share POI:

- Click on to open the *Sharing POI* window
 - Select a POI to share
 - Select deselect MAVLOG user(s) in the right-hand window to share/unshare a POI
 - When you click on the or a check box will appear. Check the box to share and uncheck to unshare the POI

Note: only the POI owner can share a POI. A shared POI may be unshared by a non-owner

MAVLOG: Map Scale



Vessel Information: Vessel Information

Vessel Information

Ship Name	OCEAN BLACKHORNET
Call Sign	V7C55
Flag	
Status	Restricted Maneuverability 3
CPA/TCPA	
Course	329
Heading	195
Speed	Not Available
ROT (Rate of Turn)	0
Length	230 (m)
Beam	36 (m)
Draught	11.4 (m)
Destination	MC-822 2NM CPA
ETA	4/4/2022, 10:00:00 AM (3 months ago)
Lat, Long (WGS84)	28.177387, -88.46477
MMSI	538005314
Timestamp	7/14/2022, 3:04:12 PM (a few sec. ago)
Source	bpAisGomTHrsNW

Following Vessel (OCEAN BLACKHORNET) Zoom

Vessel Tracker

Vessel Notes

Vessel Vector Projection

Measure Distance

Vessel Tracker tab allows the user to display the selected vessel's path over time (1 hour to 7 days). Check the box next to each vessel variant to display it on the map. Click Track to plot the vessels course on the web map for the given time range. **Note:** the variant's color in the Vessel Tracker pane will be the same on the map.

Vessel Tracker

OCEAN BLACKHORNET

Track Length 1 Hour

Highlight Speed

Destination Changes

ETA Changes

Draught Changes

Activity Changes

Show Labels

Track

Vessel Information

Vessel Events

Vessel Tracker

Vessel Notes

SIGNET WARHORSE II (366885000)

Save

Vessel Vector Projection

Vessel Notes allows users the ability to enter notes about a vessel. Notes are available in Vessel Information tool until they are deleted.

Vessel Information

Vessel Events

Vessel Tracker

Vessel Vector Projection

Select minutes:

Value: 29

Plot

Vessel Vector Projection tool calculates a vessels path in the selected time range given current course and speed. Use the time slider bar to select desired length of time (in minutes) then click Plot to display the vessels projected path.

Vessel Information displays a selected vessel's information. To select a vessel, click on it in the web map. If the Vessel Information pane does not open click on Vessel info in the bottom left corner to open it. Click Zoom to zoom to the vessel's current location on the map.

Measure Distance

Select speed (in knots):

Value: 102.3

Total Distance 182.02 nm

ETA (Local) 7/15/2022, 4:28:13 PM

ETA (HH:MM:SS) 16:28:13 GMT-0500 (Central Daylight Time)

Measure Distance provides the means to calculate a vessels ETA given a measured distance.

1. Select a vessel to display its values in the Vessel Information pane
2. Ensure you have the Bearing/Distance map mode enabled
3. Click on the vessel then proceed with creating a distance/bearing calculation

Vessel Information: Vessel Information

Vessel Information	
Ship Name	CRAWGATOR
Call Sign	WDL2880
Flag	
Status	Unknown Status 15
MMSI	368116250
Course	30.4
Heading	21
Speed	9.3
ROT (Rate of Turn)	0
Length	20 (m)
Bear	8 (m)
Draught	0 (m)
Destination	
ETA	
Lat, Long (WGS84)	28.30012, -88.57504
Timestamp	7/8/2022, 10:01:43 PM (6 days ago)
Source	bpAisGomTHrsNW

Following Vessel (CRAWGATOR) [Zoom](#)

Vessel Tracker	
SIGNET WARHORSE II	
Track Length	1 Hour
Highlight Speed	☐ $\geq$ kts
Track	

Vessel Tracker plots a selected vessel's course over a given time range. Click [Track Length](#) to select 1, 3, 6, 12 hours or 1, 3, 7 days from the track length drop-down menu. To identify when a vessel exceeds or was under a given speed check the box to the left of the ☒ $\geq$ kts operator ($\geq$ or $\leq$) drop-down menu then enter a speed in knots. Click [Track](#) to plot the vessels course on the web map for the given time range. **Note:** red points indicate when a vessel exceeded or was under the entered speed.

Vessel Events tab displays a list of all alerts of the identified vessel.

Vessel Information	
Vessel Events	
Alert	Mad Dog - 500 meter - Angle of Approach MMSI: 369494392 (WQFY927) Violation Start Time: 11/8/2021, 12:06:15 PM (2 hours ago) Violation End Time: 11/8/2021, 12:06:15 PM
Entry	Mad Dog - Vessel Entry - 500 meter MMSI: 369494392 (WQFY927) Violation Start Time: 11/8/2021, 11:41:23 AM (2 hours ago) Violation End Time: 11/8/2021, 12:06:15 PM
Entry	Mad Dog - Vessel Entry - 200 meter MMSI: 369494392 (WQFY927) Violation Start Time: 11/8/2021, 11:27:14 AM (2 hours ago) Violation End Time: 11/8/2021, 11:41:23 AM
Entry	Mad Dog - Vessel Entry - 500 meter MMSI: 369494392 (WQFY927) Violation Start Time: 11/8/2021, 10:51:18 AM (3 hours ago) Violation End Time: 11/8/2021, 11:27:14 AM
Vessel Tracker	
Vessel Vector Projection	

Vessel Information	
Vessel Events	
Vessel Tracker	
Vessel Vector Projection	
Select minutes:	
29	
Plot	

Vessel Vector Projection tool calculates a vessels path in the selected time range given current course and speed. Use the time slider bar to select desired length of time (in minutes) then click [Plot](#) to display the vessels projected path.

Vessel Information	
Vessel Events	
Vessel Tracker	
Vessel Notes	
SIGNET WARHORSE II (36885000)	
Save	
Vessel Vector Projection	

Vessel Notes allows users the ability to enter notes about a vessel. Notes are available in Vessel Information tool until they are deleted.

Vessel Information displays a selected vessel's information. To select a vessel, click on it in the web map or use the [i](#) alert history display window. CPA/TCPA displays values relative to the selected zone of focus. If no zone of focus is selected CPA/TCPA values will be blank. Click [Zoom](#) to zoom to the vessel's current location on the map. Click the *Follow Vessel* check box to track the vessel in the map.

MAVLOG: Cursor Coordinates



bp MAVLOG MapMode Weather Bearing/Distance

Click to use the cursor to identify a selected positions coordinate. Click again to dynamically display the cursors coordinates

Select how to display coordinates. Then click to add coordinates.

Click to enter coordinates and then to convert the coordinates to your select reference system.

Expand/collapse coordinate conversion tool

Click to zoom to the entered coordinate upon clicking

Cursor Coordinates

Global Vessels or POIs or Lease Blocks

San Antonio Victoria Corpus Christi Brownsville Reynosa Ciudad Victoria TAMAULIPAS

OCEAN TERROR BIMINI BABE BLUE RUSH

HOS CLAYMORE ISLAND VENTURE CHLOE CANDIES LIGHTNING SHIP ISLAND HARVEY SUPPORT CINDY JEAN LAB

UTM Input coordinate

Go to location Convert

XY -89.172000°, 26.671201°

UTM Input coordinate

Go to location Convert

100 km 60 mi

XY -90.077073°, 23.149065°

Sources: Esri, USGS, CONANP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

Vessel info Zoom to Select POI

Gulf of Mexico (Jeff Davis) - Test Role 04:29 AM CDT/09:29 GMT

Questions or Feedback



Email OML Admin Team for
MAVLOG access problems or general questions

GDataWorxGeospatialOML2Admin@bp.com

Use the [Feedback Form](#) to submit MAVLOG application feedback