



User Interface Configuration

Lesson 2.2

09/24/2020

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Lesson 2.2 Learning Objectives

Upon successful completion of this lesson, the student will be able to:

- Identify and configure the user interface to meet operational requirements
 - Searches
 - Chat/Messages
 - Map Menu (MY LAYERS - SHAPES, STATIC LAYERS, and MAP TOOLS)
 - Map Options (Map type, Custom views, Map Settings, Map Filters, Baseball Card Settings [Vessel Data Card], and Exporting Vessels)
 - Dashboard (Rules, Alerts, Warnings, and Vessel Lists)





Search

- Searches provide the ability to execute a custom vessel query
- Searches can be saved and shared
- Results can be viewed on the map, exported, or saved to a vessel list

Search

Choose How To Evaluate Your Conditions

Vessels must meet all conditions
 Vessels can meet any condition

Set Up Your Conditions

Location by User Defined Shape: is inside [text box] [X]

ADD CONDITION

Search Results (25 total vessels)

FLAG	VESSEL NA.	REGISTRE.	CALL SIGN	↑ MMSI	IMO NUMBER	VESSEL TYPE	DESTINATI.	ETA	NAVIGATIO.	EXPORT	
1	Italy	Grande M...	--	IBOY	247405800	9782687	7-Cargo	Sa Jed	10110500	0-Underway...	JSON CSV XML KML
2	Liberia	--	--	--	636092874	--	--	--	--	--	
3	Malta	Jebel Al	Valeria SNC	9HA2984	22907000	952936	7-Cargo	Spinn	10061600	0-Underway...	
4	Malta	Milaha Ras ...	Milaha Ras ...	9HA3093	22913000	925854	8-Tanker	Qa Rf- Tw ...	10102200	0-Underway...	5.618765 86.95798
5	Malta	Al Qbla	Al Qbla Ltd	9HA3938	226576000	952924	7-Cargo	Spinn	10061300	0-Underway...	5.695365 86.0096
6	Malta	Seriana	Seriana Tra...	9HA3964	226627000	972228	8-Tanker	You South ...	10140800	0-Underway...	5.888568 85.50988

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- Users are able to configure Search settings (Columns, Data Sources) before running a search
- Users can select which data sets the Search will be run against



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Search (Cont.)

Search [X] Manage +

✓ Choose How To Evaluate Your Conditions

- Vessels must meet all conditions
- Vessels can meet any condition

✓ Set Up Your Conditions

Vessel Type is 4X - High Speed Craft (HSC) X

ADD CONDITION



✓ Choose The Time Period To Evaluate

Vessel Age 6 hrs No Maximum

Done!

SEARCH

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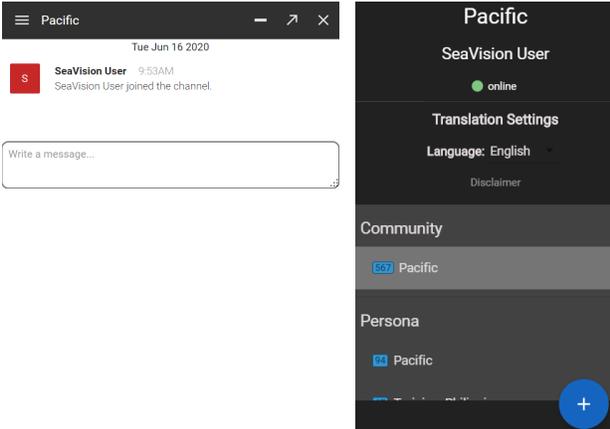
- A search in SeaVision may be specific enough to return one vessel or general enough to result in multiple matches
- Configure Searches:
 - Choose How to Evaluate Your Condition
 - Vessels must meet all conditions
 - Vessel can meet any condition
 - Set Up Your Conditions
 - Choose The Time Period to Evaluate
 - 1-24 hours
 - 1-30 days
 - No Maximum

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Configure Chat Channels

- Community Channel
- Persona Channels
- Direct Message (DM) Channels

- Chat Window Indicators
 - Online Status Indicator
 - User Count Indicator
 - Unread Messages Indicator



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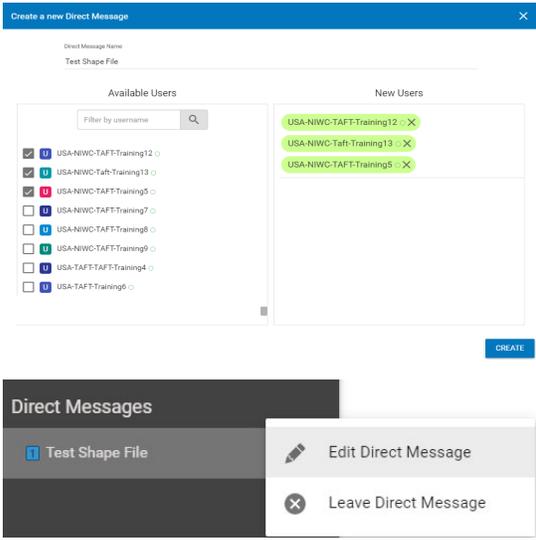
- Chat provides the ability to collaborate with other SeaVision (SV) users in a community and a persona. Channels are used to organize conversations across the community. Each community contains three types of channels:
 - Community Channels: Open to everyone in a community. When users are added to a community, they are automatically added to the Community Channel. When messages are posted in the Community Channel, they are visible to everyone in that community
 - Persona Channels: For topics relevant to a persona and only visible to members of that persona. When users are added to a persona, they are automatically added to the corresponding Persona Channel
 - Direct Message (DM) Channels: Private conversations among two or more people and only visible to members of the Direct Message. Any member of a Direct Message can add additional members. Members can choose to leave a Direct Message group at any time, but only SV Admins can remove other members





Messages

- Create a new Direct Message
 - Direct Message Name
 - Available Users
 - Create
- Direct Messages
 - Edit Direct Message
 - Leave Direct Message



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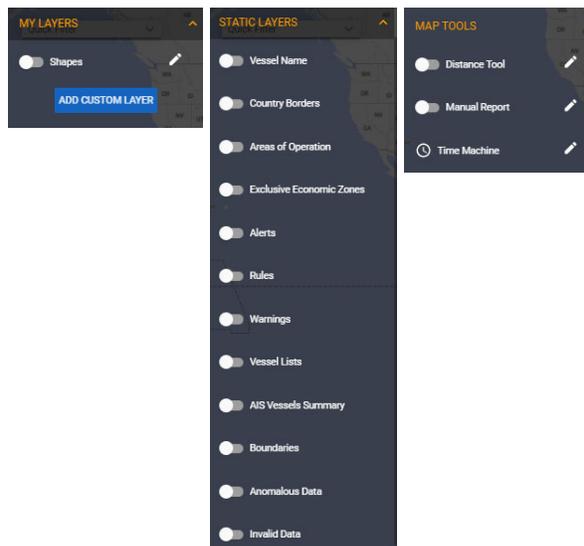
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- Sending messages and replying to messages are important ways to keep conversations active within Chat



Map Menu (MY LAYERS, STATIC LAYERS, MAP TOOLS)

- MY LAYERS
 - Shapes
- STATIC LAYERS
 - Display various overlays on a map for quick visual reference
- MAP TOOLS
 - Distance Tool
 - Manual Report
 - Time Machine

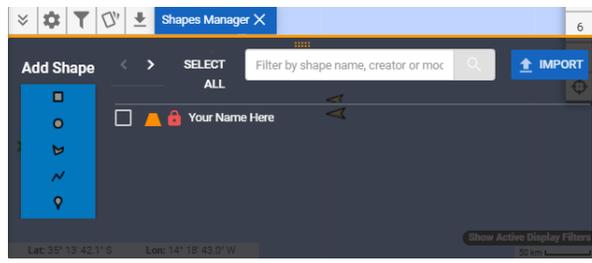
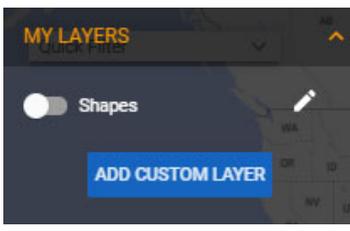




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User-Defined Shapes

- Shapes enable the user to select and highlight a region of interest to track vessel activity
- User-defined shapes designate a geospatial area for Searches, Rules, and/or Alerts
- Supported Shape types include rectangle, circle, polygon, polyline, and marker



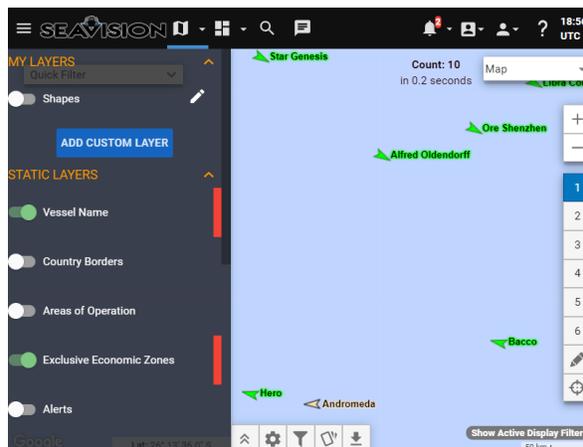
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- User-defined Shapes can be shared to a Persona or Community
 - SeaVision supports exporting and importing shapes in KML, JSON, and CSV formats
- Additionally, users can add Shape notes, which may also be shared to a Persona or Community



STATIC LAYERS

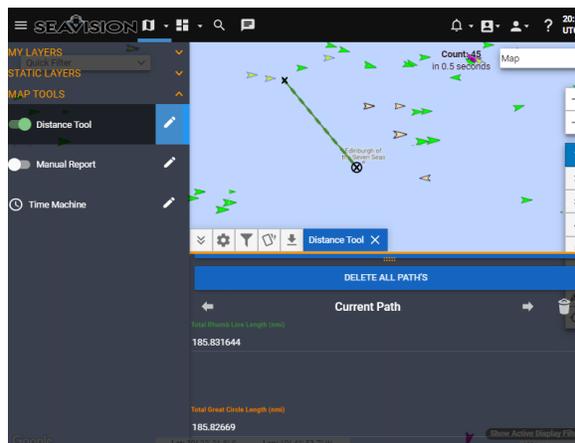
- Customizable Map View
- Display Map Overlays – Toggle On/Off





MAP TOOLS

- Distance Tool
 - Users can create a Rhumb Line (RL) or Great Circle (GC) to measure the distance between two or more points



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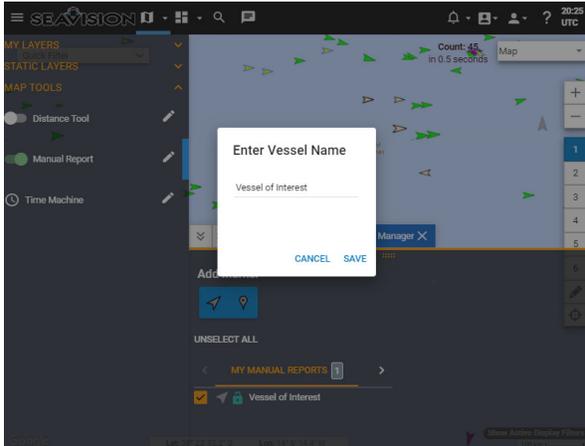
- Perform time and distance calculations
- Create single or multi-segment lines
- Attach line segments to any vessel icon on the SeaVision map
- Edit individual line segments



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MAP TOOLS

- Manual Report
 - Report the location of a vessel or incident to display on the map



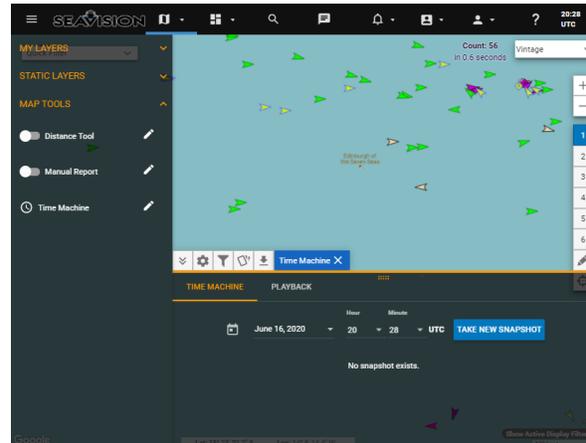
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- For both vessels and incidents, users must specify the date/time and position for the marker to be displayed on the map
- Specify heading, course, speed, and enable the marker to update based on dead reckoning
- Share to a Persona or Community
- Add notes to the manual report, which may also be shared to a Persona or Community



MAP TOOLS

- TIME MACHINE
 - Snapshot of all Automatic Identification System (AIS) traffic for a specific date and time



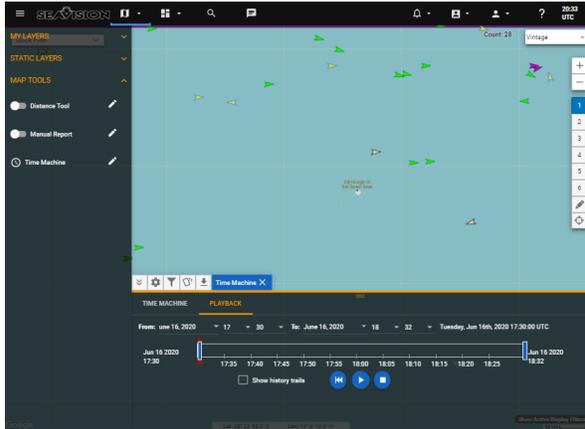
- A snapshot of all AIS traffic for specific date and time in UTC
- Data is available for up to one year prior to the current date and includes the previous four hours from the time selected



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MAP TOOLS

- **PLAYBACK**
 - Animated playback of a vessel's historical positions and movements over time



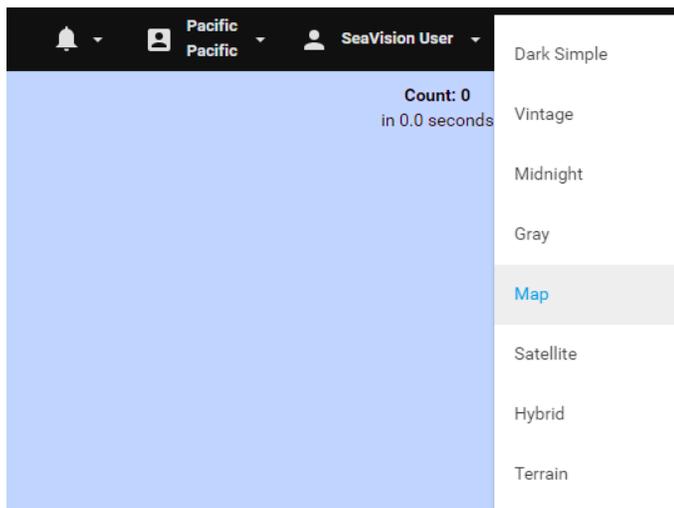
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- SeaVision (SV) **PLAYBACK** gives users the ability to view an animated playback of historical vessel positions over a period between one hour and 30 days
- Users are given the ability to scroll through selected time periods to view and analyze vessel data of the selected geographic area
- SV **PLAYBACK** data is available for up to one year prior to the current date and can be used in conjunction with vessel filters, quick filters, and extended map filters



Map Types

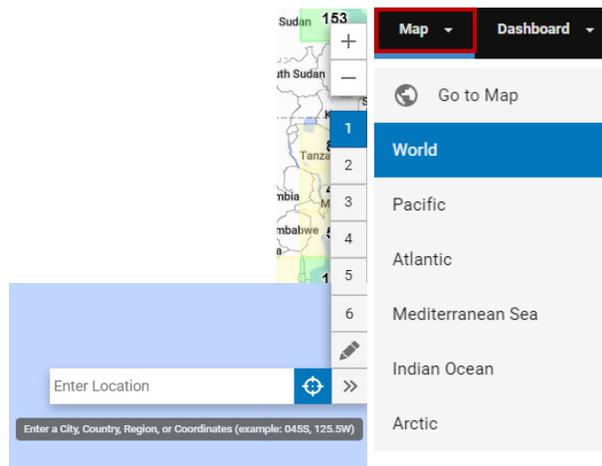
- Map Types
 - Dark Simple
 - Vintage
 - Midnight
 - Gray
 - Map (Default)
 - Satellite
 - Hybrid
 - Terrain





Custom Views and Jump to Location

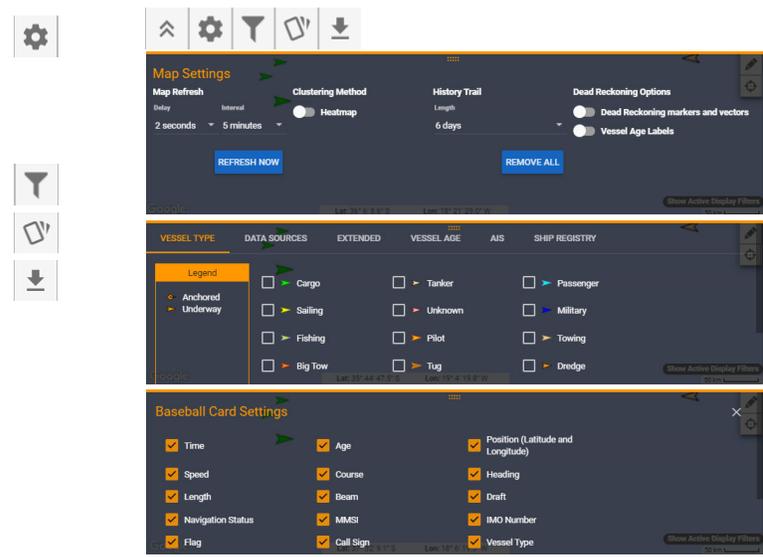
- Custom Views
 - Six custom views may be set
 - Filters/zoom level saved
 - Quick access using Go to Map
- Jump to Location
 - Cities/Ports
 - Countries
 - Regions
 - Coordinates





Map Options

- Map Settings
 - Map Refresh
 - History Trail
 - Dead Reckoning
- Map Filters
- Baseball Card Settings (Vessel Data Card)
- Export Vessels



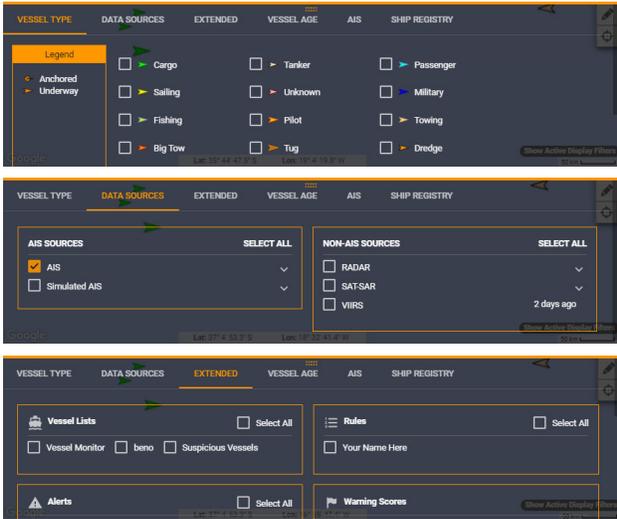
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- Map Settings
 - Map Refresh
 - Delay: adjust the time between pan movements before reloading the page from 0 to 10 seconds
 - Interval: update the current locations of all vessels on the Map display. The rate can be set from one to 10 minutes
 - History Trail Length
 - Change the amount of time (one to 90 days) of viewable historical vessel track data that is displayed on the Map
 - Dead Reckoning
 - A vessel's estimated position based on last Automatic Identification System (AIS) position, course, and speed



Map Filters

- VESSEL TYPE
- DATA SOURCES
- EXTENDED



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- Map Filters

- The Vessel Filters tab lists a variety of vessel-related filters within SeaVision, as well as several overlays that can be displayed on the Map. Users can run multiple filters simultaneously and can show vessels that match select criterion, user-defined rules and/or alerts, and saved custom Vessel List. This tab includes:
 - Filter by Vessel Type: an icon key that lets users select the types of vessels that they wish to see on the Map, as it defaults to showing all types
 - Data Sources: toggle on/off Data Sources
 - Extended: allows filters to be set by Vessel List, Rules, Alerts, Warning Scores, and Anomalies

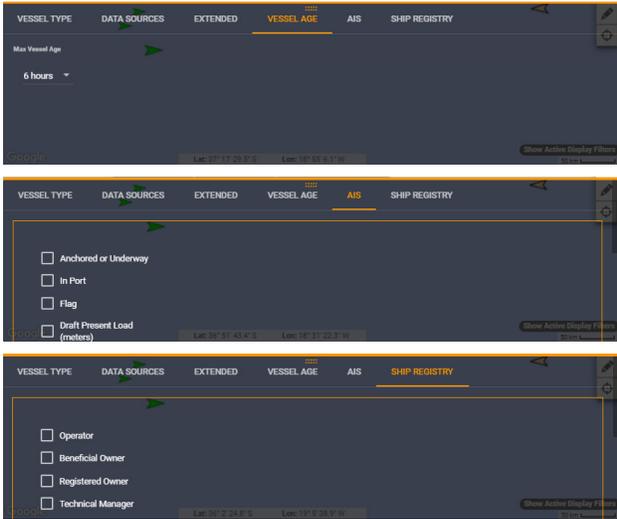




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Map Filters (Cont.)

- VESSEL AGE
- Automatic Identification System (AIS)
- SHIP REGISTRY



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- Vessel Age: changing this criterion affects the age of vessel reports displayed. The most recent report will be shown for each vessel from vessel age selected to current time
- AIS: this setting allows users to filter vessels based off AIS fields
- Ship Registry: this field allows users to filter vessels based off ship registry information



Baseball Card (Vessel Data Card) Settings

- Select/Deselect Items
- History Trail
- Dead Reckoning (DR) Vector
- Vessel Details
- Add Vessel to List
- Download or Print Information

The screenshot displays the 'Baseball Card Settings' window with a grid of checkboxes for various data fields, all of which are checked. Below this is the 'lolos Vision' vessel data card, which includes a small image of the vessel and a list of details. A red box highlights the 'History Trail', 'DR Vector', 'Vessel Details', and 'Add Vessel to List' options on the right side of the data card.

Baseball Card Settings

<input checked="" type="checkbox"/> Time	<input checked="" type="checkbox"/> Age	<input checked="" type="checkbox"/> Position (Latitude and Longitude)
<input checked="" type="checkbox"/> Speed	<input checked="" type="checkbox"/> Course	<input checked="" type="checkbox"/> Heading
<input checked="" type="checkbox"/> Length	<input checked="" type="checkbox"/> Beam	<input checked="" type="checkbox"/> Draft
<input checked="" type="checkbox"/> Navigation Status	<input checked="" type="checkbox"/> MMSI	<input checked="" type="checkbox"/> IMO Number
<input checked="" type="checkbox"/> Flag	<input checked="" type="checkbox"/> Call Sign	<input checked="" type="checkbox"/> Vessel Type

lolos Vision

Source: SATELLITE AIS
Time: 2020 Jun 16 22:06:56 UTC
Age: 0h 9m 18s ago
Position: 36° 28' 10" S, 21° 59' 46" W
Speed: 11.6 kts
Heading: 86°
Course: 86°
MMSI: 249947000
IMO Number: 9425148
Flag: Malta
Call Sign: 9HA2091
Ship Type: 7-Cargo
Length: 229 m
Beam: 36 m
Draft: 13.6 m
Navigation Status: 0-Underway(Engine)
Destination: Singapore
ETA: 07/10 @ 12:00 UTC

History Trail
DR Vector
Vessel Details
Add Vessel to List





Export Vessels

- Export the vessels in the screen view as a KML formatted file

Opening lists-export-vessel-list-2019-09-17_09-18.kml

You have chosen to open:

 **lists-export-vessel-list-2019-09-17_09-18.kml**
which is: XML Document (650 bytes)
from: blob:

What should Firefox do with this file?

Open with Office XML Handler (default)

Save File

Do this automatically for files like this from now on.

OK Cancel

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- A KML file stores geographic modeling information in XML format. It includes points, lines, polygons, and images. KML files are used to identify and label locations, create different camera angles, overlay textures, and add HTML content
- Google Earth is a common application that uses KML files

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Rules Dashboard

- Rules are user-created vessel searches, configured to run on a schedule
- The analytics tab provides a graph displaying the number of vessels matching a user's Rule over time

MMSI	VESSEL NAME	VESSEL TYPE
351901600	Sunlight Express	B-Tanker
351075000	Pichircha	B-Tanker
351115000	Eagle Sepporo	B-Tanker
351143000	Gaz Millennium	B-Tanker
351153000	Global Theris	B-Tanker
351165000	Cosbright Lake	B-Tanker
351168000	C.prinacy	B-Tanker

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- Rules query the same data set as the map's detailed Search; however, Rules are run in the background and a user can assign scores (weight) to them
- Rules dashboard allows the user to add new rules, run rules, export results from the rules, map the results of the user's rules, manage rules, as well as view a table of all vessels matching the user's rules
- Can edit, disable, enable, renew (before or after the 30-day expiration), and delete rules



Creating a New Rule

- Conditions can be evaluated so that the results meet:
 - All conditions
 - Any condition
 - In this option, conditions can be weighted individually to reflect emphasis on some over others
- Users can choose for Rules to be evaluated:
 - Daily
 - Every 12 hours
 - Every 6 hours
 - Every 3 hours
 - Every 2 hours



Alerts Dashboard

- Alerts track and analyze vessel activities in real time
- Alerts are run against terrestrial and satellite Automatic Identification System (AIS) data feeds

The screenshot displays the Alerts Dashboard interface. It is divided into three main sections:

- Active Alerts (1):** Shows a list of active alerts. A red circle highlights the 'Alert Name' column header, and a red arrow points to the 'Alert Name' of the first alert, 'Your Alert Name Here'. Below the list are options to Edit, Copy, Share, Disable, Renew, and Delete.
- Alert Definition:** Shows the configuration for an alert. It includes the alert name, last updated time (2020-06-24 21:36:46 by SeaVision User), triggers (Entering ROI: ON, Exiting ROI: ON), and region of interest (United States Of America).
- Results - Vessels Matching Alerts (0):** Shows a table of vessels matching the alert. The table has columns for MMSI, VESSEL NAME, and VESSEL TYPE. A 'No results' message is displayed below the table.

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- The Analytics tab provides a graph displaying the number of vessels matching a user's Alerts over time

Creating a New Alert

- Alert triggers can be based off a Region of Interest or an Automatic Identification System (AIS) Field Change
- Alerts can be configured to include additional vessel filters in the results
- Alerts can be sent to alert subscribers, just the user, or not at all

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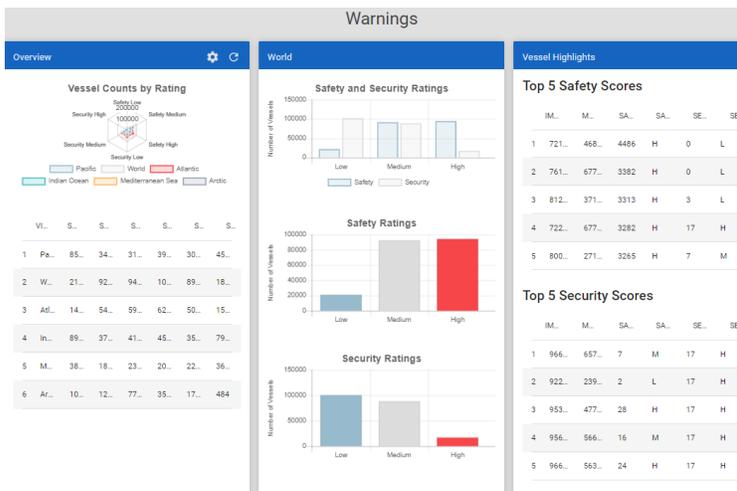
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- Alerts can be triggered by:
 - A vessel only entering, only exiting, or entering and exiting a Region of Interest
 - Regions of Interest can be defined by Area of Operations (AO), Economic Exclusion Zones (EEZ), or user-defined Shapes
 - An AIS Field Change in:
 - Name
 - IMO Number
 - Vessel Type
 - Call Sign
 - Length
 - Beam
- Users can receive emails with matching alerts to an email address or email distribution list



Warnings Dashboard

- Overview
 - Vessel Counts by Rating
 - Custom map views populate automatically
 - Warnings Scores are refreshed every 24 hours
- Safety and Security Ratings
 - Low, Medium, or High
- Vessel Highlights
 - Top 5 Safety Scores
 - Top 5 Security Scores



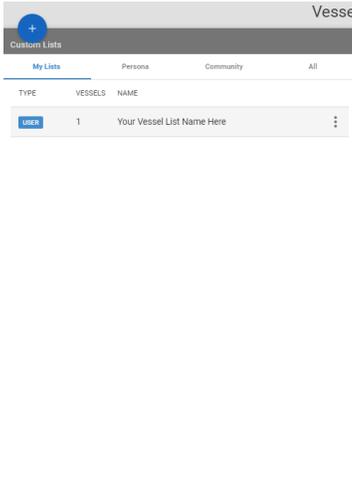


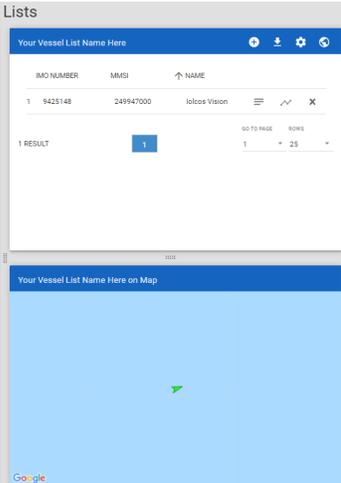


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Vessel Lists Dashboard

- Create Custom Lists by Maritime Mobile Service Identity (MMSI) or International Maritime Organization (IMO) numbers
- Vessel Lists can be used as additional filters for:
 - Rules
 - Alerts
 - Searches





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- Users can use Vessel Lists to save ships they are interested in tracking or reviewing
- Users can create multiple lists and add vessels to a list by MMSI or IMO number
- Vessel Lists can also be used as an additional filter criteria for user-defined Searches or Rules



Creating Vessel Lists

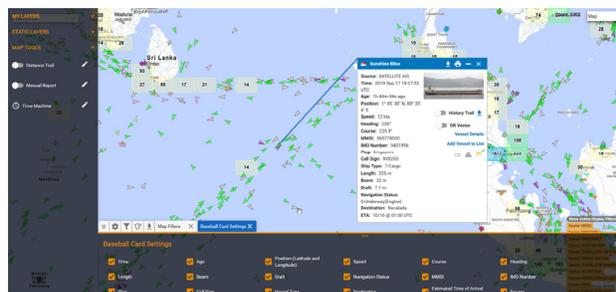
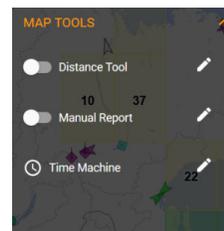
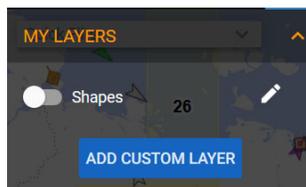
- Results of a Search, Rule, or Alert can be saved as a new vessel list
- May be added to a list from the vessel Baseball Card (Vessel Data Card)
- May be added by manually entering the MMSI number or IMO number via the Add Vessel button on the Vessel List Dashboard

The screenshot displays the SeaVision interface. At the top, it shows 'Search Results (15492 total vessels)'. Below this are buttons for 'EXPORT', 'SAVE AS LIST', and 'MAP RESULTS'. A table lists search results with columns for flags, vessel names, and various identifiers. Below the table is a 'Your Vessel List Name Here' section with a search bar and a table containing one result: IMO NUMBER 9425148, MMSI 249947000, and Name lolcos Vision. To the right, a detailed view for the vessel 'Ekaterina' is shown, including its source (SATELLITE AIS), time, age, position, speed, heading, course, MMSI, IMO number, flag, call sign, ship type, length, beam, draft, navigation status, and destination. A red box highlights the 'Add Vessel to List' button in the vessel details panel.



User Interface Configuration Summary

- Searches
- Chat/Messages
- Map Menu (MY LAYERS, STATIC LAYERS, and MAP TOOLS)
- Map Options (Map Settings, Map Filters, Baseball Card Settings [Vessel Data Card], Exporting Vessels)
- Dashboard (Rules, Alerts, Warnings, and Vessel Lists)





Questions?

