SiiTech Web VTS Manual

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About Web VTS

Web VTS is a web-based maritime traffic monitoring solution for:

- Ports
- VTS
- Pilots
- Shipping Companies
- Logistic Companies
- Shipping Agencies
- Charterers
- Tug Companies
- Coast Guards
- Port Security
- Marine Exchanges
- Municipal Police Departments
- Oil Rig Companies
- Environmental Protection Divisions
- Insurance Companies
- Aids to Navigation Management
- Long-Range Fleet Monitoring

Web VTS is designed for ship traffic and monitoring centers. It increases the safety, security and efficiency of sea operations. Web VTS provides a complete AIS interface, including the ability to:

- View and track multiple ships simultaneously
- Display specific ship information
- Display AtoN monitoring information
- Display weather station data
- Display LRIT ship positions
- Send and receive safety related messages
- Send and receive text messages

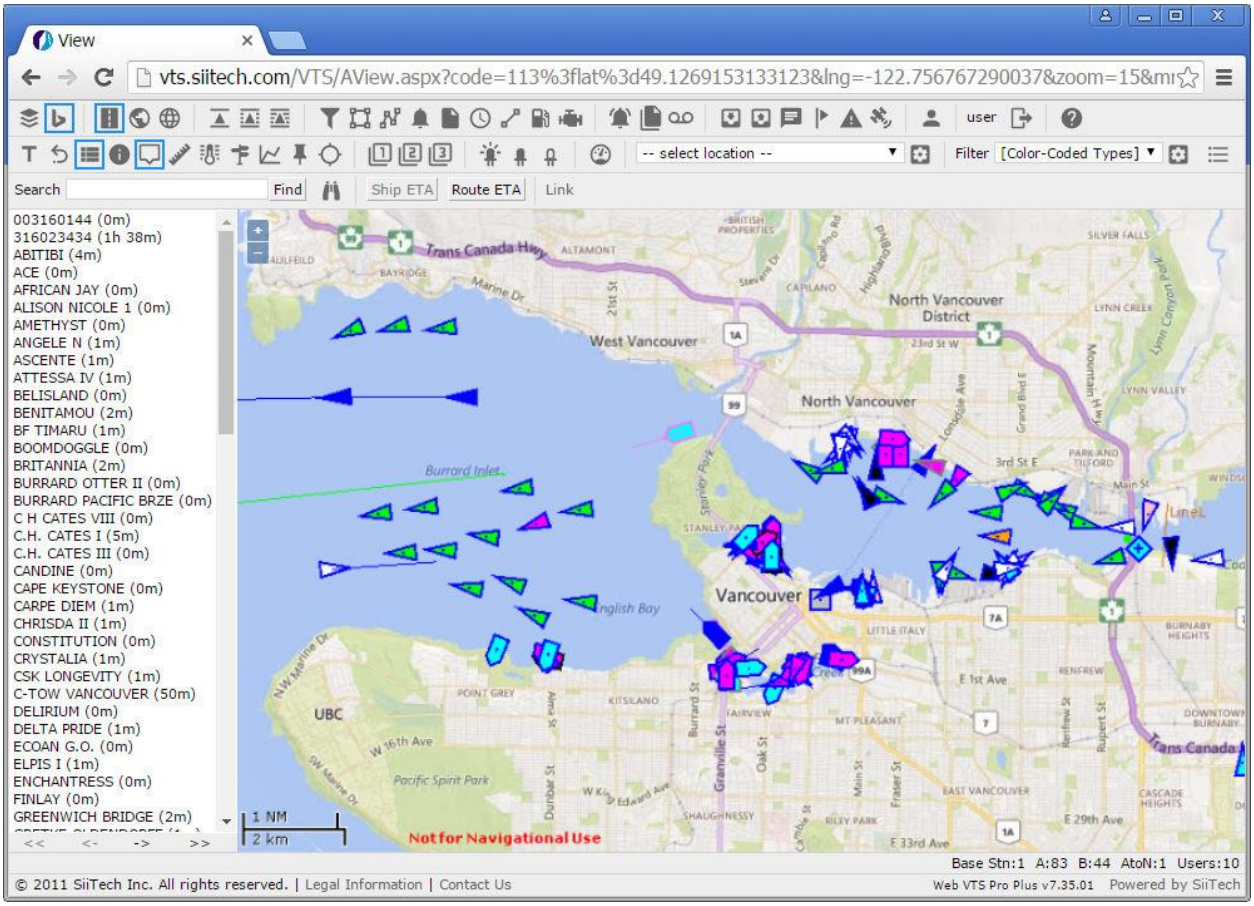
Web VTS's interface and display of AIS related information offers all users a substantial leap forward in their ability to communicate and interact with sea-based ships. Since Web VTS is fully configurable, users can customize color patterns for AIS targets, set alarms, create reports, filters, and zones.

Web VTS has the following features:

- Zone Designer (creating user defined zones: circle, polygon, line)
- Filter Designer (filtering ships by name, MMSI, call sign, group of ships, type of AIS device or ship, speed of ship, size of ship)
- Alarm Designer (user defined alarms, pop-up alarm window, e-mail and SMS notifications, turning on siren or projector)

- Report Designer (creating user defined reports, including arrival/departure, actual berth time, speed violation, and others)
- Route Designer (creating routes)
- Cable Designer (entering cable location data)
- Dynamic ETA prediction and distance to way points
- Unlimited History Replay function
- Full control of users (what users can monitor and/or what functions users can use)
- Receiving safety messages from ships
- Sending addressed and broadcast safety messages to ships
- Sending virtual AtoN messages
- Monitoring Radar-ARPA targets (radar support)
- CCTV PTZ Camera support (automatically follow a ship)
- Inmarsat Long-range monitoring
- Iridium Short Burst Data service support for online monitoring of any sensors on board such as for fuel consumption, engine on/off and others
- SmartOne support that is a battery-operated satellite transmitter to track barges, tugs, containers and other assets
- Customizable colors for AIS targets
- Multi-language support

Web VTS is intended for a wide range of AIS (Automatic Identification System) web browser users.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Burrard Inlet
English Bay
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UBC
Pacific Spirit Park
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Not for Navigational Use
Base Stn:1 A:83 B:44 AtoN:1 Users:10
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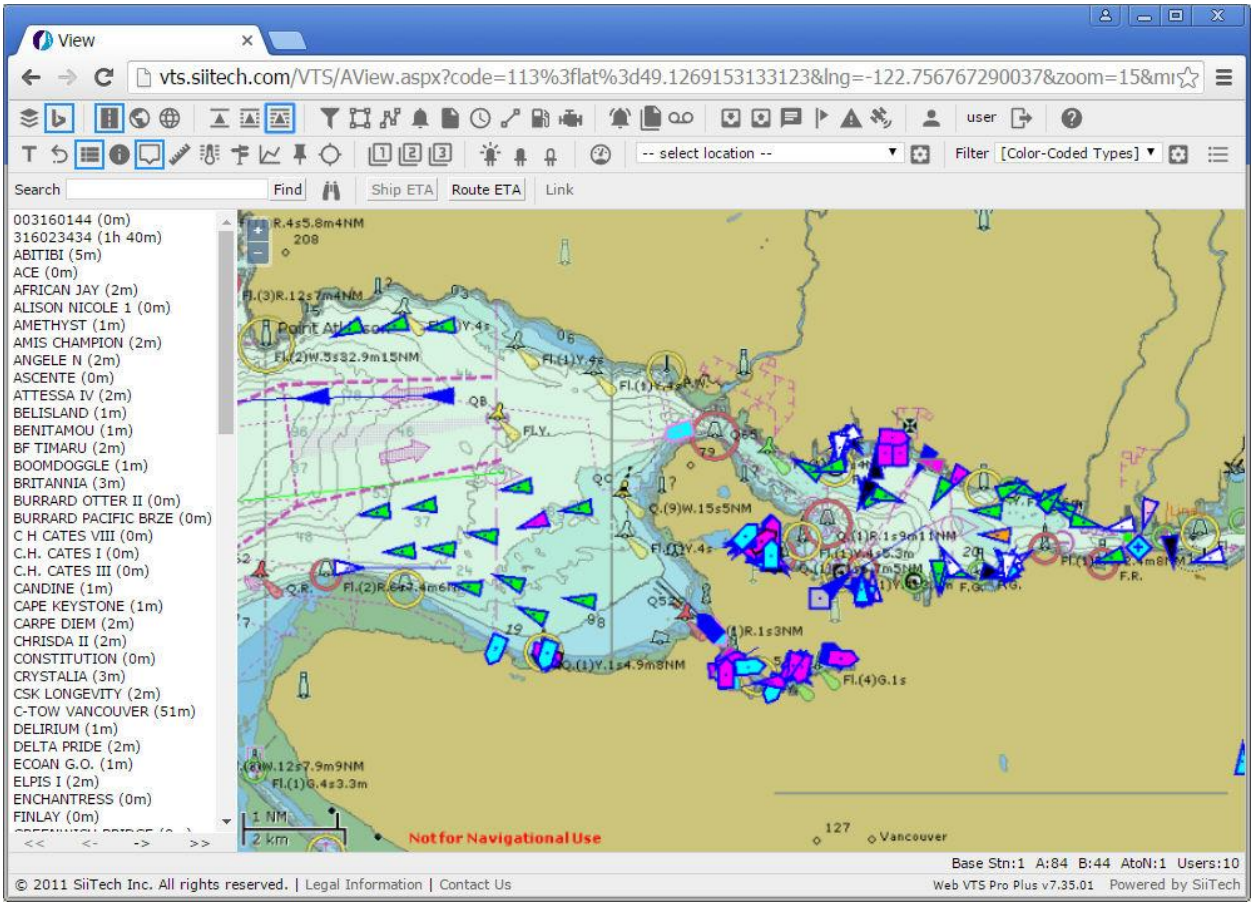
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Vancouver
Base Stn:1 A:84 B:44 AtoN:1 Users:10
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Overview

Web VTS is a web-based marine traffic monitoring system for ports and other organizations interested in monitoring ship movements in real-time mode.

Web VTS increases the safety, security and efficiency of operations within a port.

Web VTS provides a complete AIS/ARPA interface that includes the ability to:

- View and track all AIS equipped ships
- View and track ARPA targets
- Display specific ship information
- Receive addressed and broadcast safety messages
- Send addressed and broadcast safety messages (only with AIS Class A transponder or AIS Base station)
- Automatically send virtual Aids to Navigation (AtoN) messages (only with AIS Base station)

Web VTS assists port authorities and other traffic monitoring operators to:

- Identify and track AIS equipped ships
- Display ARPA targets
- Provide additional information to assist collision avoidance and investigation
- Archive important AIS data into a database
- Make any operational decision or action
- Provide full range of unique marine traffic reports

Web VTS's interface and display of AIS/ARPA related information offers port operators a substantial leap forward in their ability to communicate and interact with sea-based ships. Since Web VTS is fully configurable, operators can adjust the size of the chart panel, customize color patterns for AIS targets, set alarms, and create reports, filters, and zones specific to each user.

Web VTS receives AIS/ARPA data from SiiTech AIS Server and provides a graphic display of AIS targets onto electronic charts and maps.

Web VTS supports Google maps, Microsoft Virtual Earth maps, S-57 (NOAA) and BSB nautical charts.

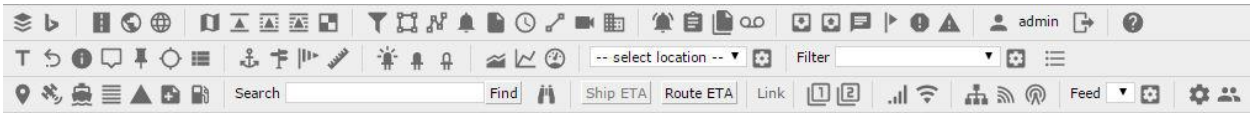
Starting Web VTS

1. Open web browser and type the following URL address: **http://<yourwebsite>/VTS.** You should see the **Login** screen.

2. Enter your **Login** name and **Password** and click the **Login** button to open the Web VTS main screen.

Toolbar

As soon as you start Web VTS, you'll see its toolbar at the top of the application window. The toolbar contains tools to access commands and perform other actions. You click a tool to perform its action. Some tools complete the action immediately; others place you in a mode to complete the action.



Maps and Charts

– Display OpenStreetMaps.
– Display Bing Maps.
– Select Map View.
– Select Satellite View.
– Select Hybrid View.
– Display Raster Navigational Charts (BSB).
– Display Electronic Navigational Charts (ENC Base).
– Display Electronic Navigational Charts (ENC Standard).
– Display Electronic Navigational Charts (ENC All).
– Select Water Only View.

Designers

– Open Filter Designer.
– Open Zone Designer.
– Open Route Designer.
– Open Alarm Designer.
– Open Report Designer.
– Open Task Scheduler window.
– Open Cable Designer (optional).

Tools and Commands

– Open CCTV Cameras window (optional).
– Open Companies window.
– Show Alarm Events window.
– Open Event Log window.
– Open Run Report window.
– Open History Replay window.
– Open Inbox window.
– Open Outbox window.

– Open Sent Messages window.
– Open Virtual Aid-to-Navigation window.
– Open Emergency and Incident Command Support window (optional).
– Open Digital Selective Calling (DSC) Inbox (optional).
– Open User Info window.
– Logout.
– Help (Web VTS User's Guide).

Commands and options

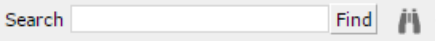
– Show ship names.
– Show ship tracks.
– Show information pane.
– Show information balloon.
– Follow selected ship.
– Show only selected ship.
– Show ship names list.
– Show ports (optional).
– Show mile markers.
– Show weather stations (optional).
– Activate measurement tool.
– Open AtoN Status window (optional).
– Open AtoN Manager window (optional).
– Open AtoN List window (optional).
– Open Tide and Current Predictions window.
– Open History Graph window.
– Open Instrument Panel window.

– Open Ship Positions window.
– Open LRIT Ship Positions window (optional).
– Open Ship Data window.
– Open Ship Details List window.
– Open EICS Ship Details List window.
– Open Import LRIT Ships window.
– Open Fuel Consumption by Speed window (optional).
– Open Link 1 URL in a separate window
– Open Link 2 URL in a separate window.
– Open Link 3 URL in a separate window.
– Open Link 4 URL in a separate window.
– Open My Stations Status window.
– Show My Stations on the map.
– Open Station Manager window..
– Open All Stations List window.

– Show All Stations on the map.
– Open Options window.
– Open Users window.

Select a predefined location from the drop-down list to center the map on your desired location. Use to open the **Locations** window and add or edit location data.

Select a predefined filter from the drop-down list. Use to open the **Filter Designer** window and add or edit a filter. Click to the **Filter Legend** window.



Type ship name, MMSI number, or Call Sign in the Search box. Click **Find** to search for this ship. Click to open the **Ship List** window.

Click Ship ETA to monitor distance and estimated time of arrival (ETA) for the selected ship.

Click Route ETA to monitor distance and estimated time of arrival (ETA) for all ships along the selected route.

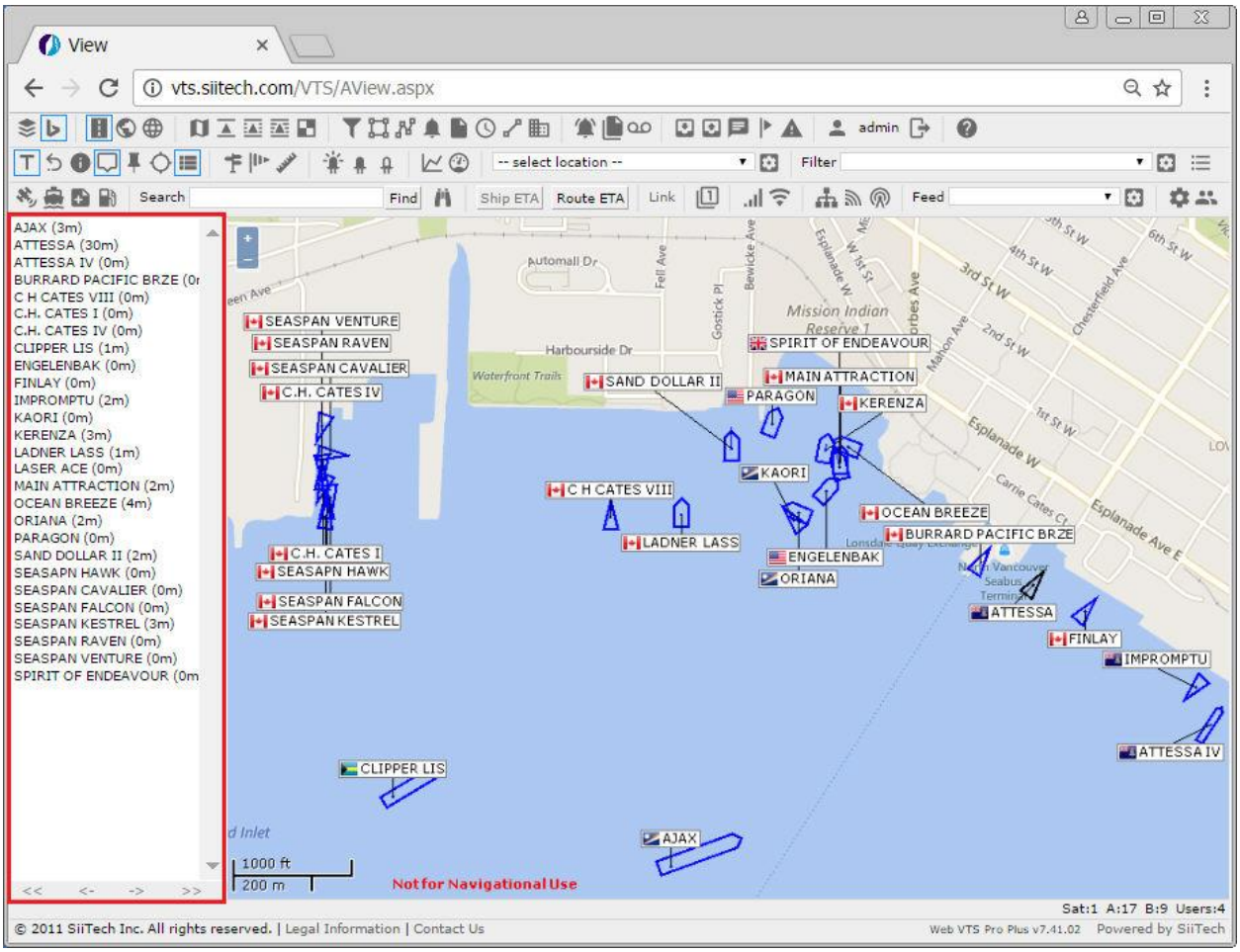
To generate the URL of the current page, right click Link and select "Copy link address".

Basic Features

Ship Names List

As soon as you start Web VTS, you will see the **Ship Names List** on the left side of the application window.

This will show the names of all ships currently visible in your browser window.

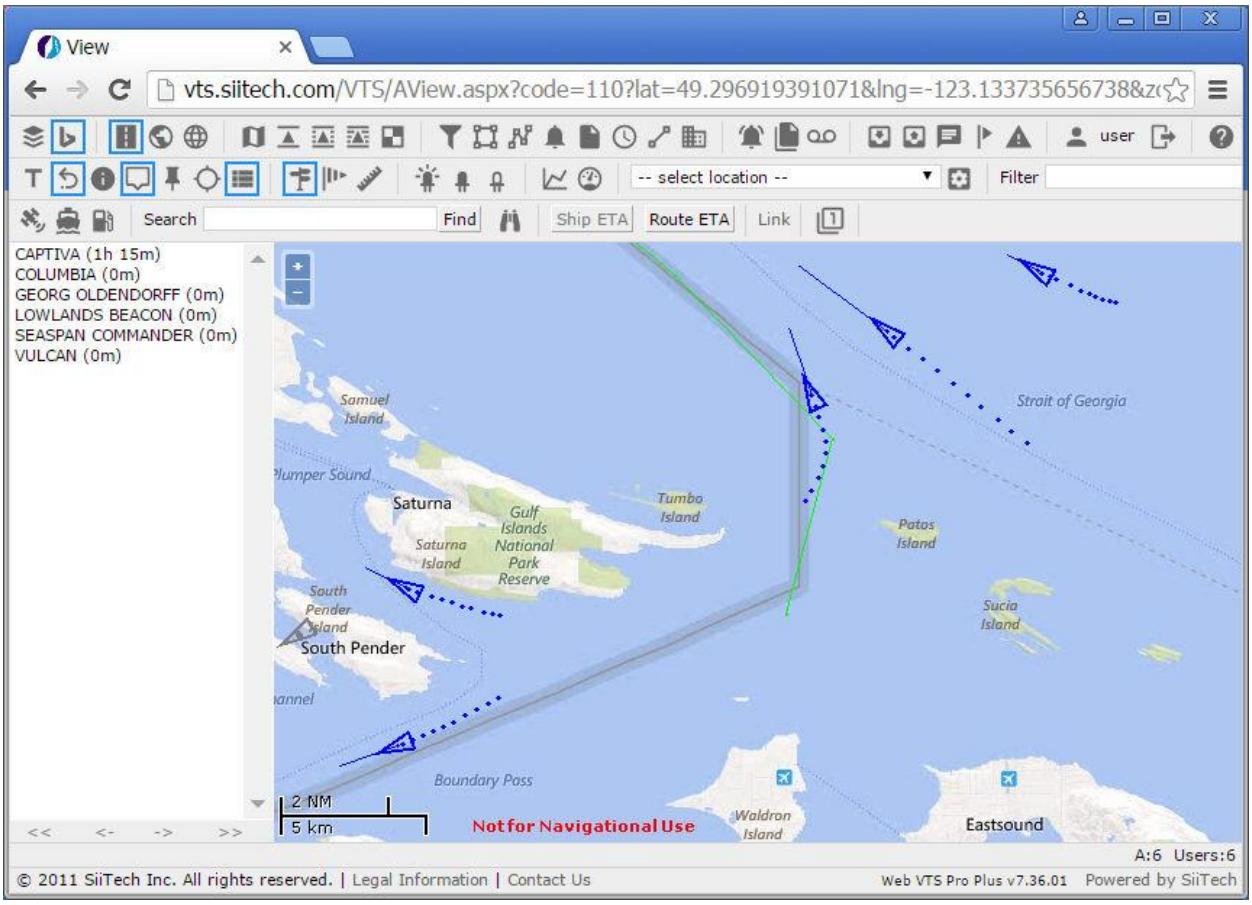


Use the scroll arrows pictured at the bottom to navigate through list pages.

Note: You can close the **Ship Names List** at any time by clicking the **Show Ship Names List** button in the toolbar to deselect it.

Show Ship Tracks

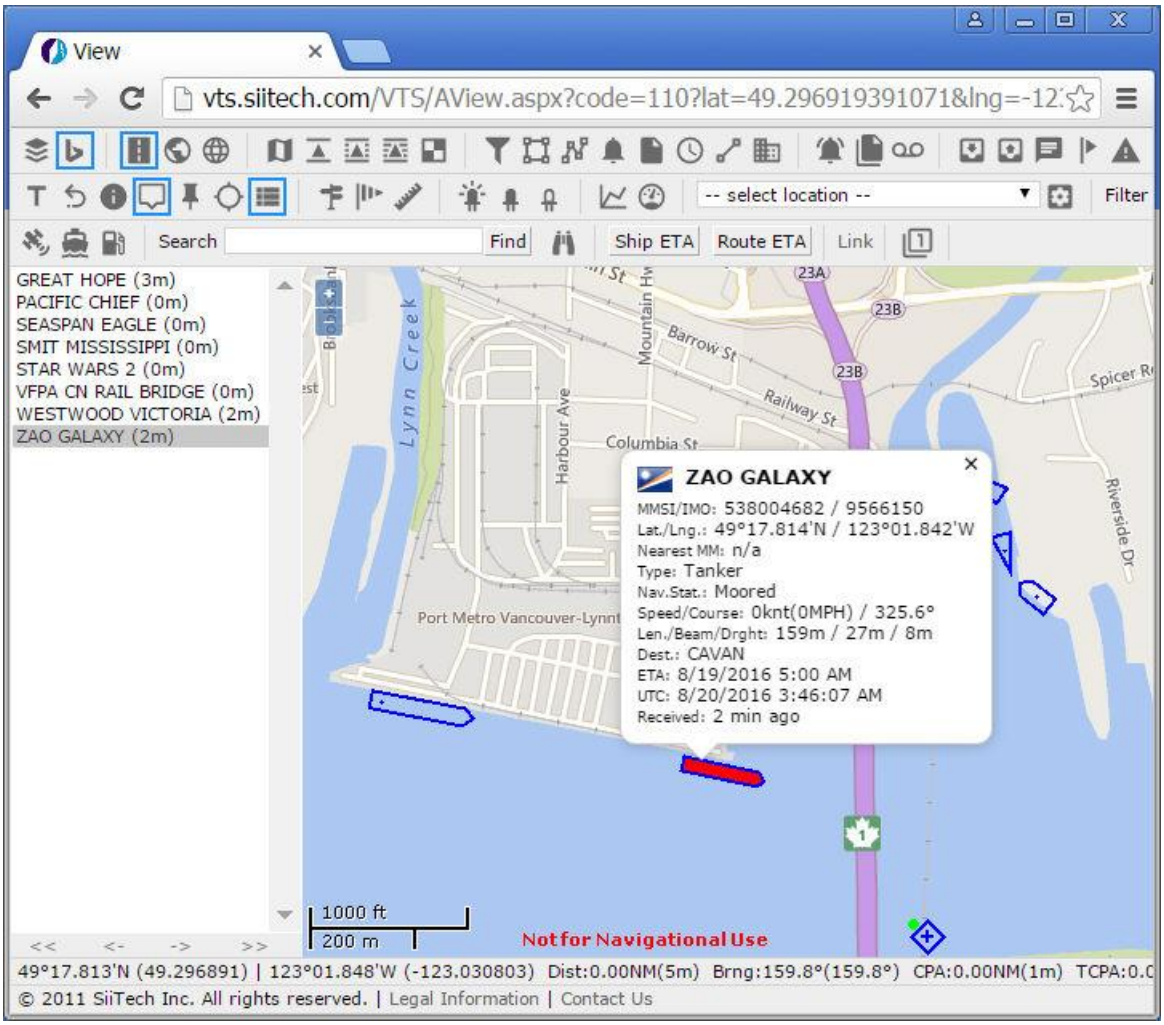
Click the **Show Tracks** button in the toolbar to display ship tracks on the map view.



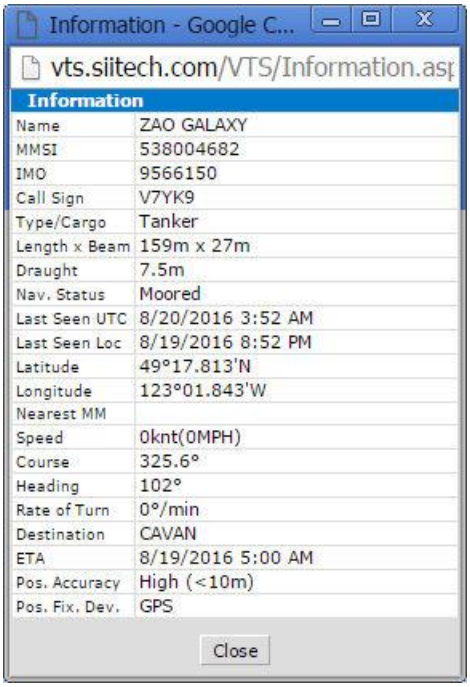
Note: Ships' tracks will appear if there is enough free space to draw them. Web VTS calculates this automatically.

View Ship Information

To view ship information, click the **Show Information Balloon** button 🗨 in the toolbar. Left-click a specific ship. The selected ship will turn red, and a balloon will appear over the ship in the map view showing its data. You can deactivate the information balloons at any time by deselecting the **Show Information Balloon** button 🗨 in the toolbar.

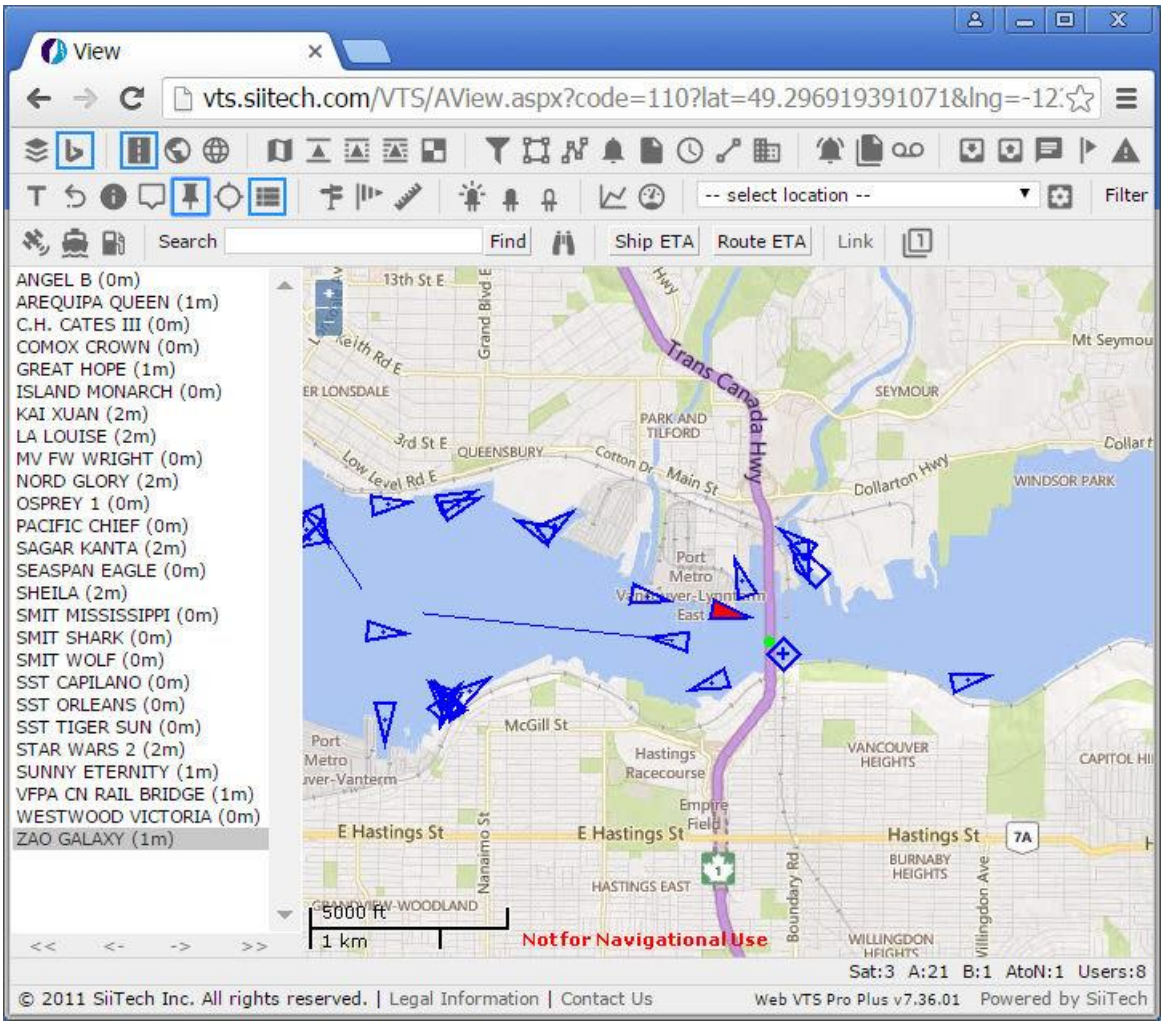


To view ship data in a separate window, select a ship and click the **Show Information Panel** button ⓘ in the toolbar.



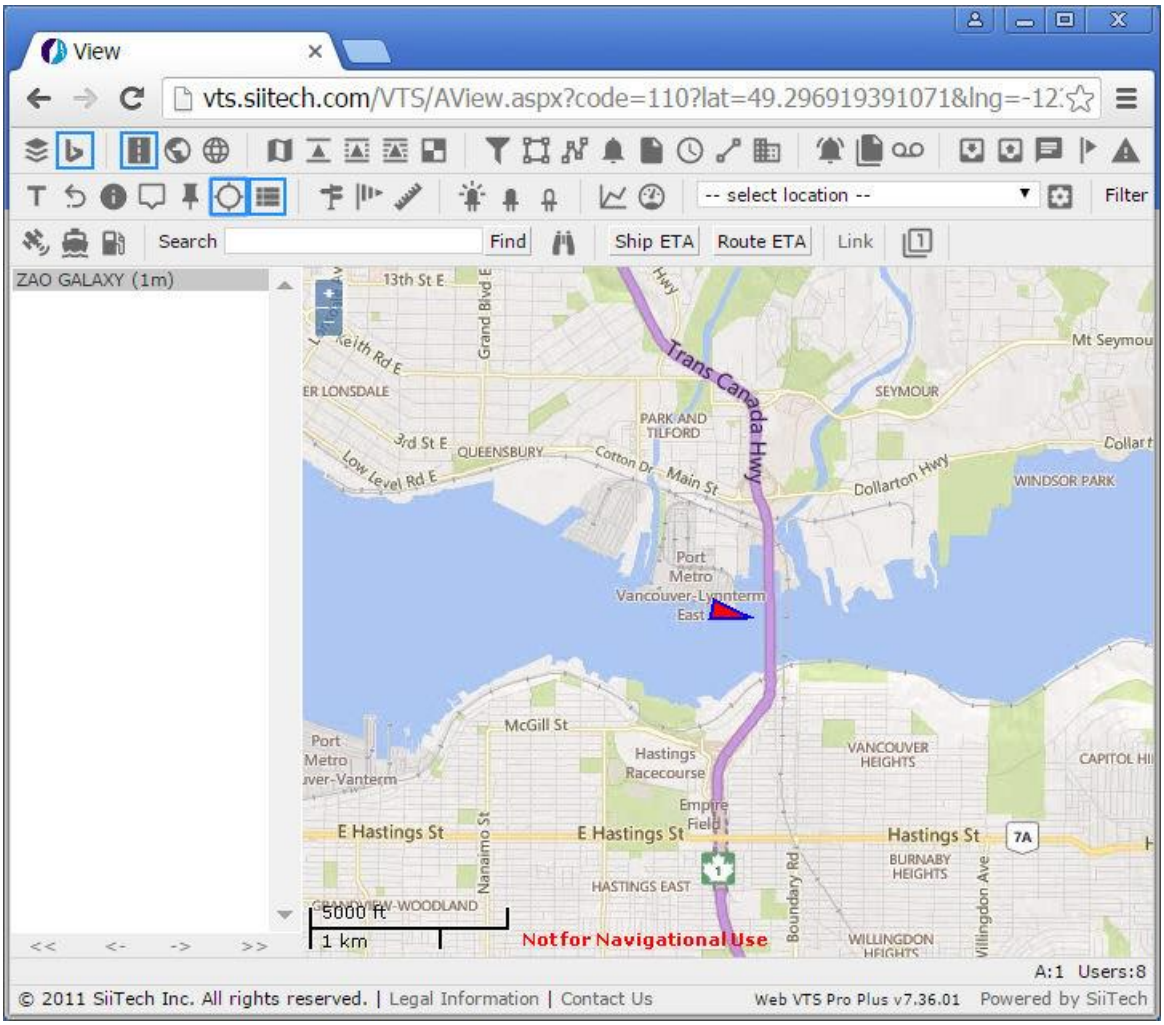
Follow Selected Ship

You can use WebVTS to automatically keep a specific ship in the center of the map view at all times. Click the desired ship (it will turn red when selected), then click the **Follow Selected Ship** button in the toolbar.



Show Only Selected Ship

To show a selected ship only, click on the desired ship, then click the **Show Only Selected Ship** button in the toolbar. WebVTS will automatically eliminate all other ships from the map view.

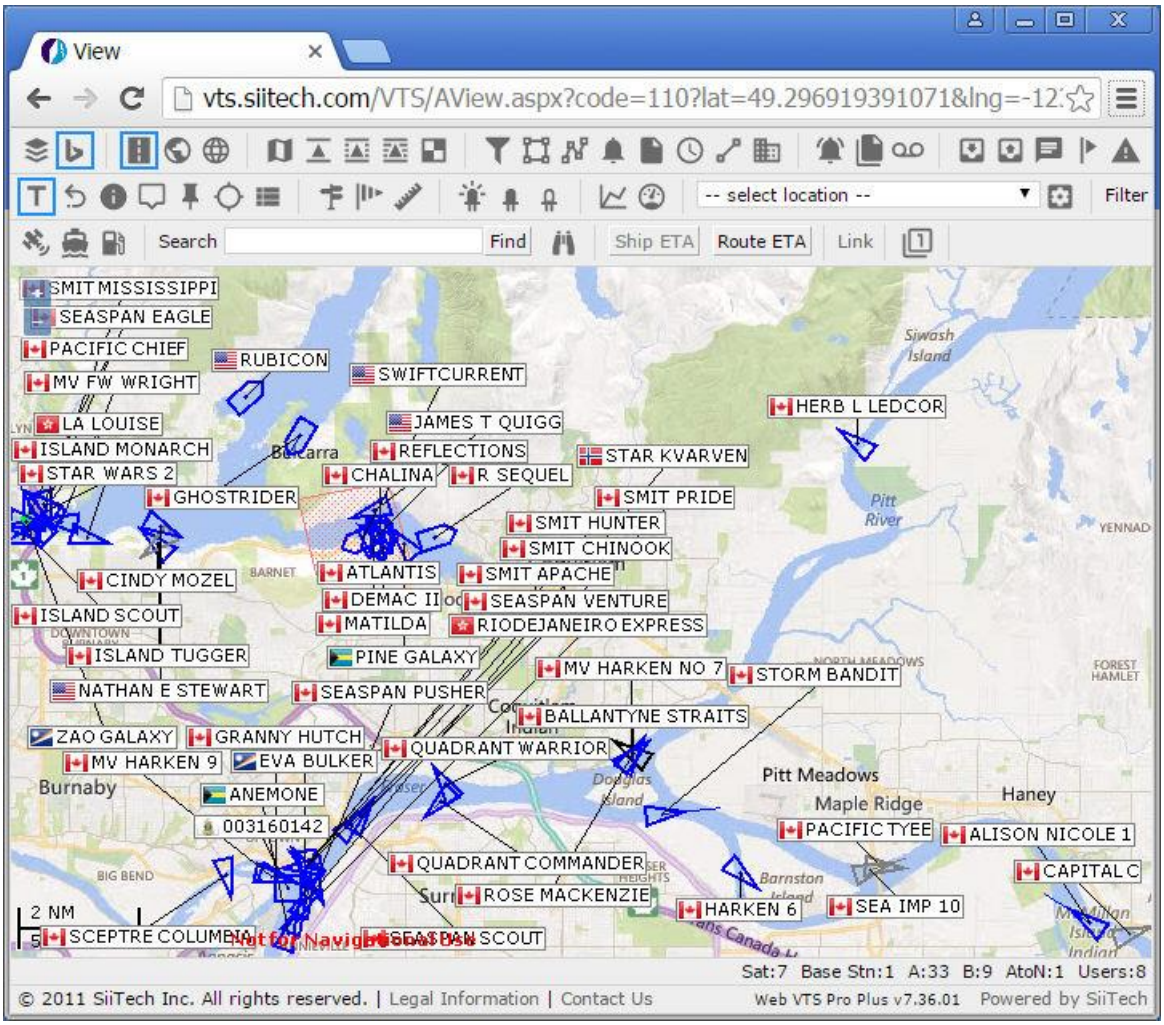


Show Ship Names

To display ship names, click the **Show Names** button T in the toolbar. The ship names will appear on the map view.

Note: Ship names will appear if there is enough free space to draw the names. Web VTS calculates this automatically.

If Web VTS has not received AIS message #5 (Ship static and voyage related data) from a certain ship, it will display an MMSI number instead of a name.



Displaying Charts/Maps

Web VTS allows charts and maps to be displayed in an efficient and sophisticated manner.

Individual Display:

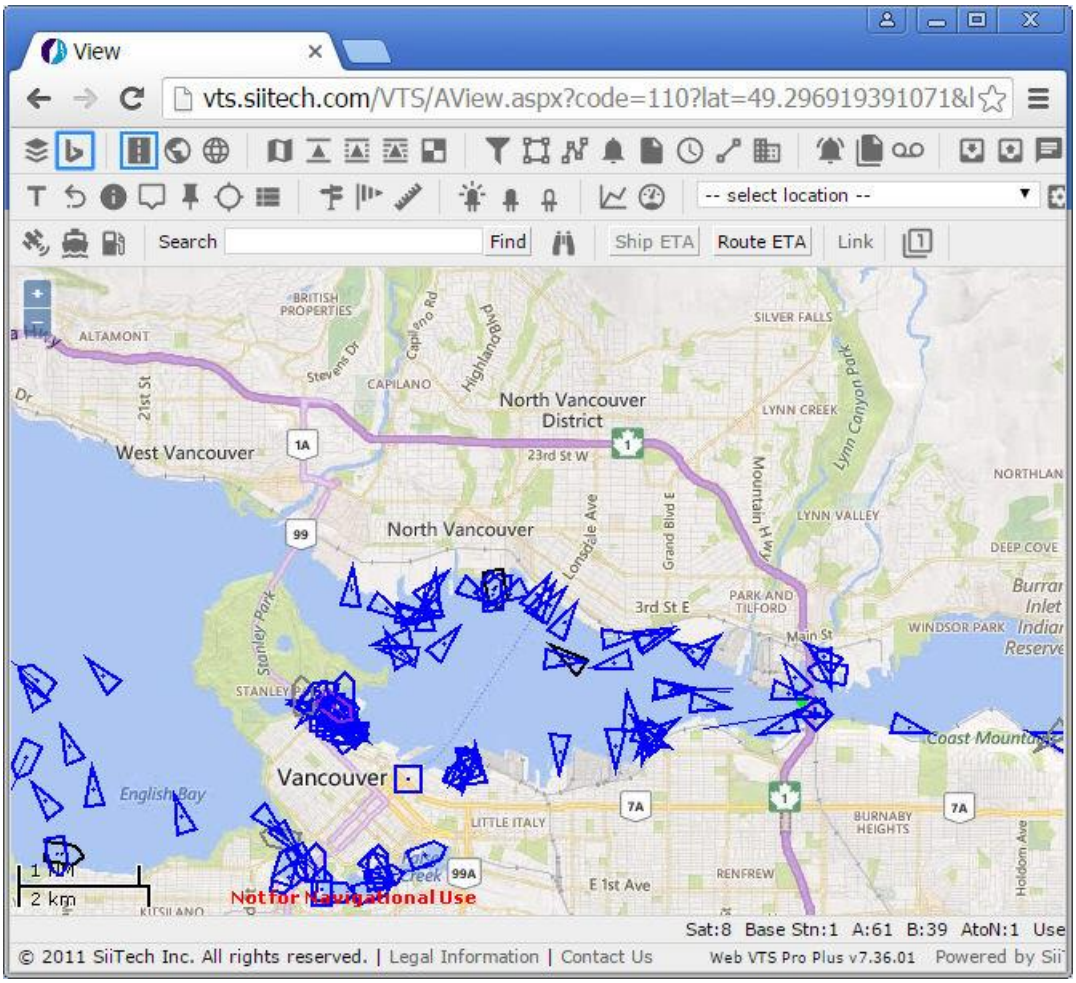
- Bing Maps
- Open Street Maps;
- S-57 vector navigational charts (NOAA charts)
- BSB raster navigational charts
- ArcGIS Online Tiles

Combined Display:

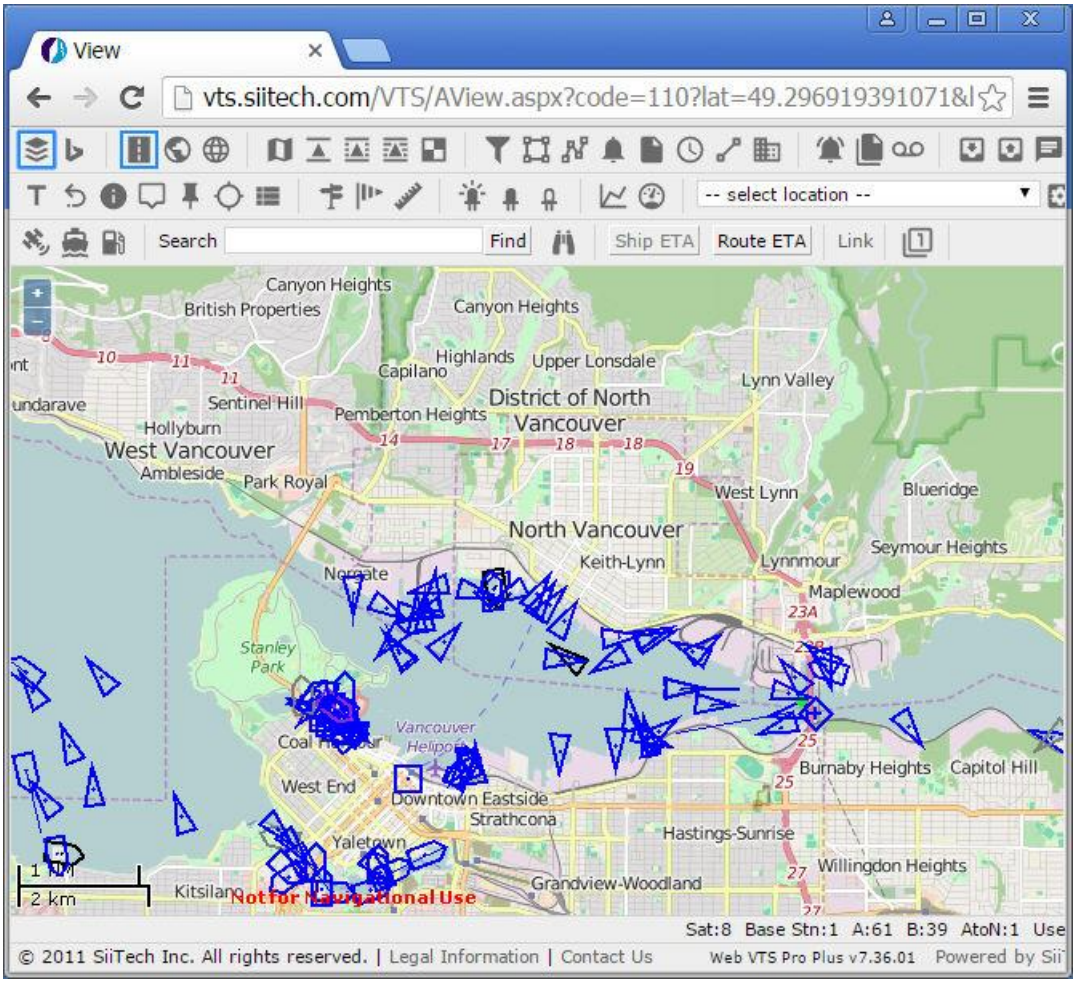
- S-57 navigational charts over Bing Maps or Open Street Maps
- BSB raster navigational charts over S-57 vector navigational charts

- BSB raster navigational charts over Bing Maps or Open Street Maps
- ArcGIS Online Tiles over any other maps or charts

To display Bing Maps, click the **Bing Maps** button in the toolbar.

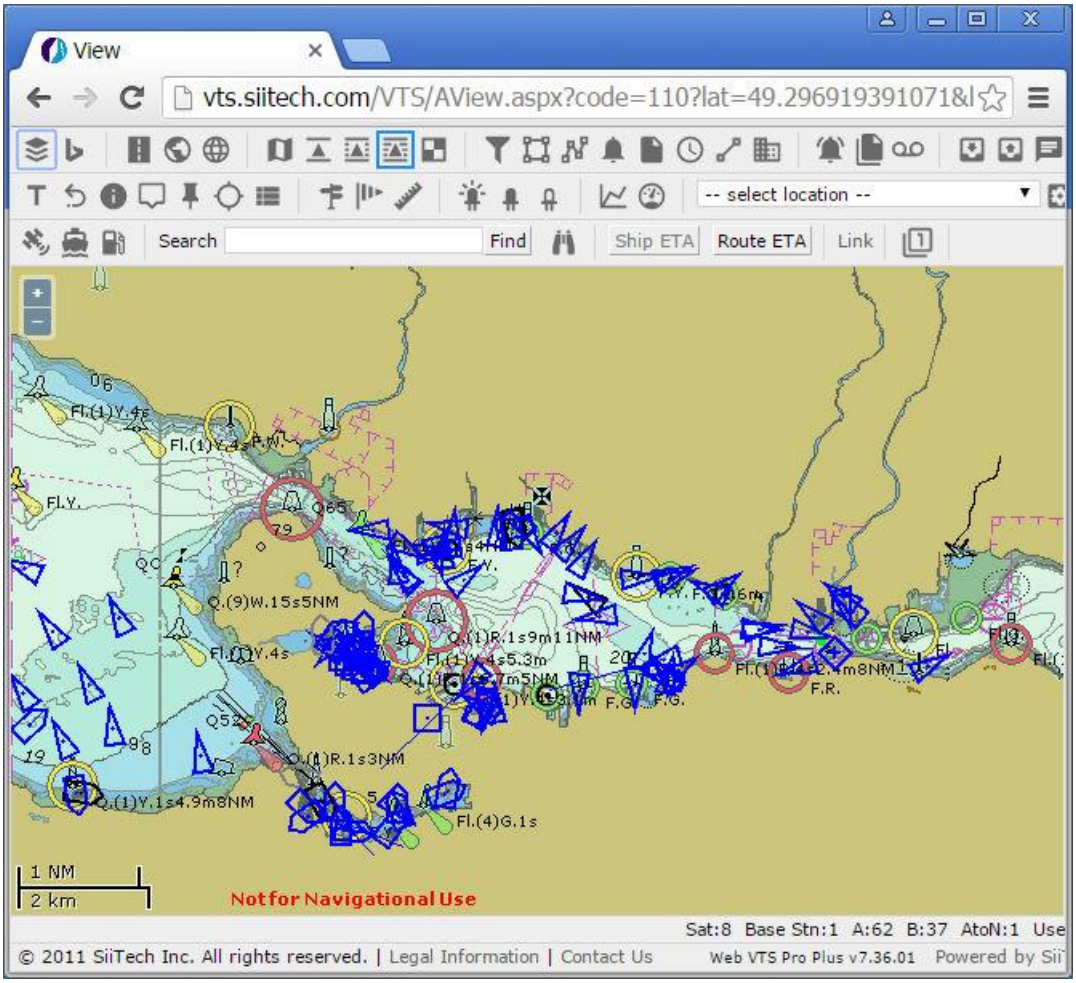


To display Open Street Maps, click the **Open Street Maps** button in the toolbar.



Display Electronic Navigational Charts (S-57):

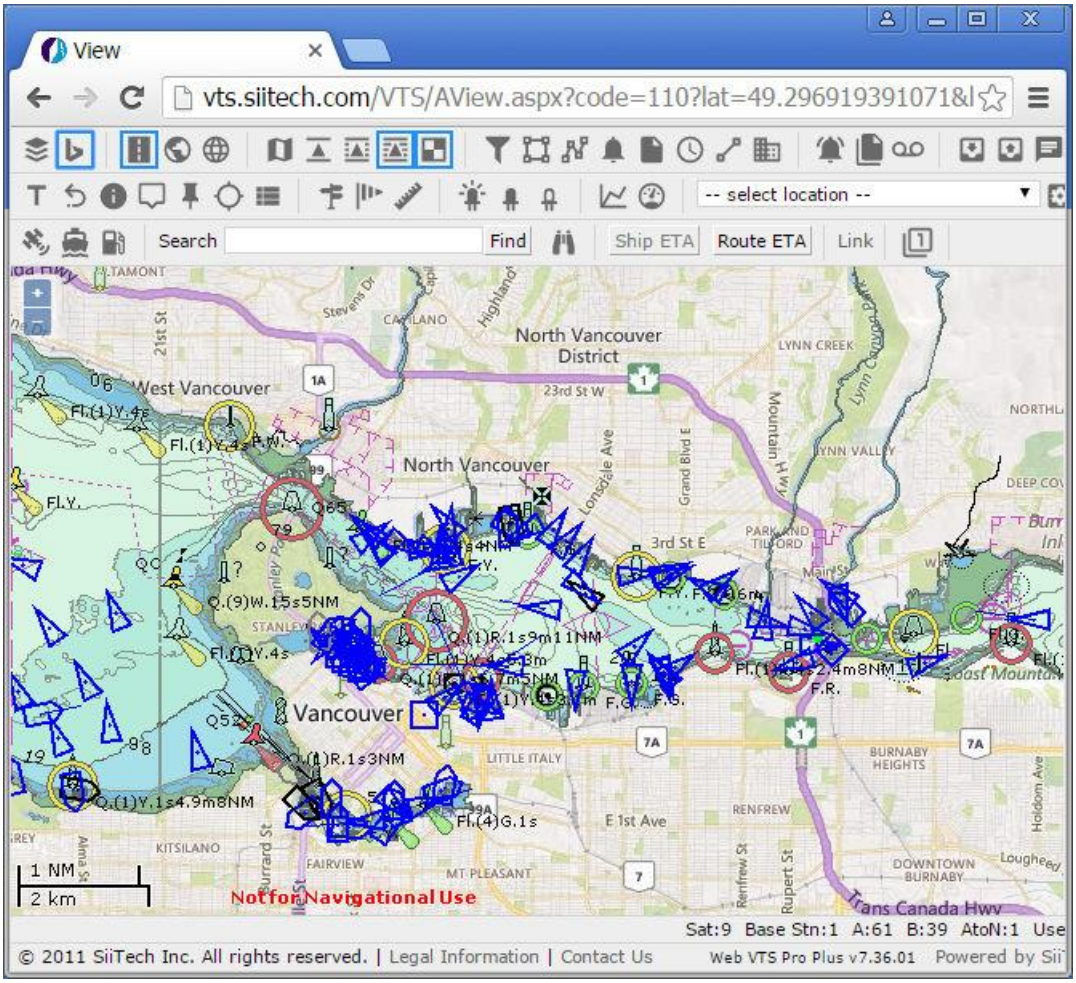
- Click **ENC Base** to select Base presentation mode;
- Click **ENC Standard** to select Standard presentation mode;
- Click **ENC All** to select User-Defined presentation mode (pictured below).



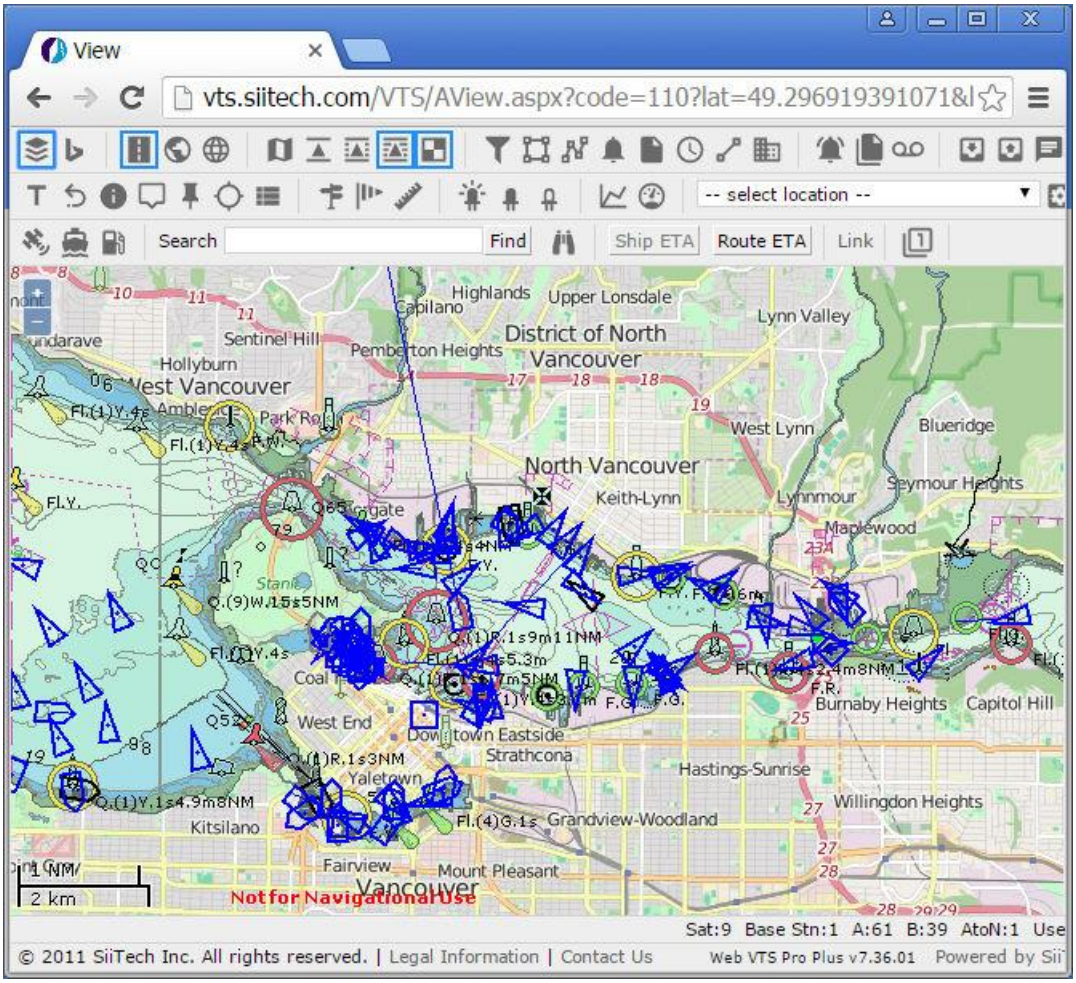
To display Raster Navigational Charts (BSB), click the **Raster Navigational Charts** button in the toolbar.

Combined Display:

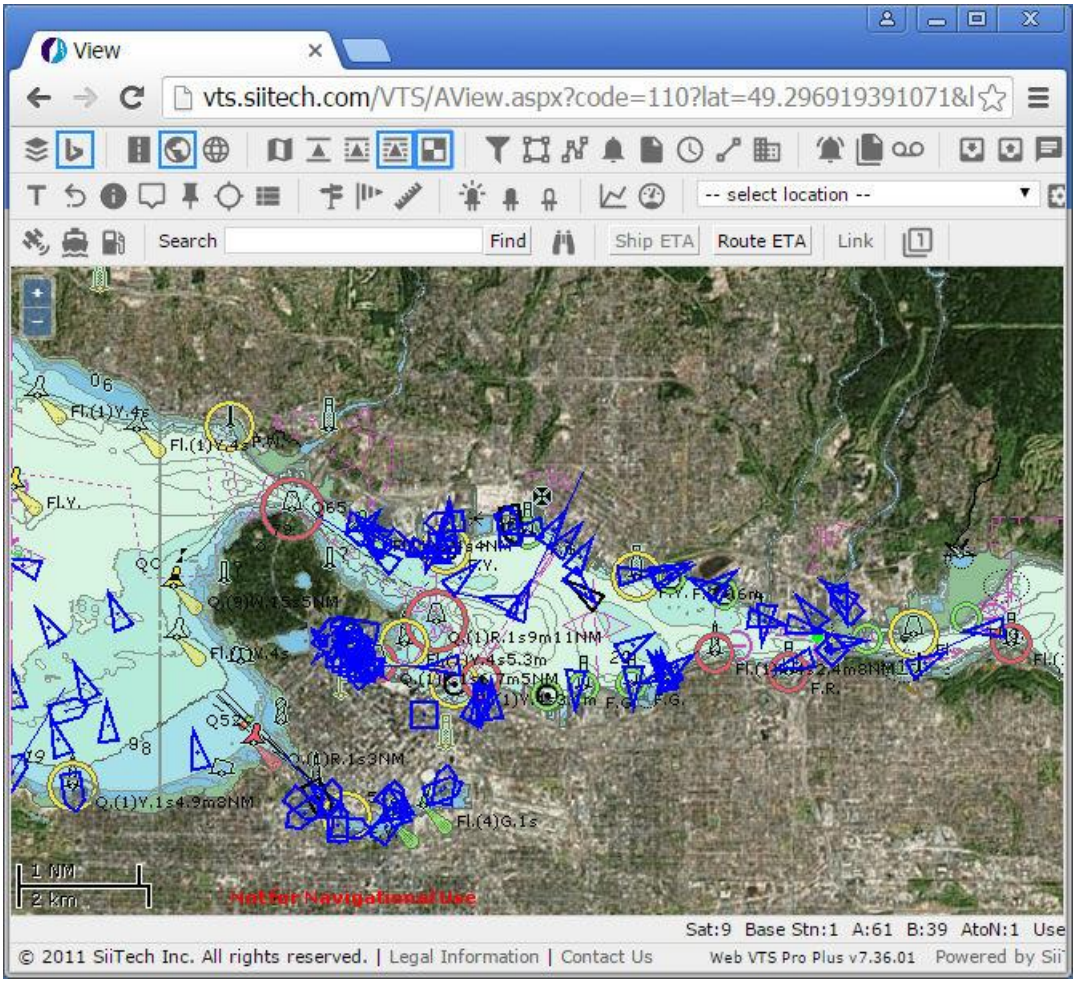
To display Bing Maps and S-57 navigational charts (water only) together, click the **Bing Maps** button , the **ENC All** button (or any **ENC mode** of your choice), and the **Water Only** button in the toolbar.



To display Open Street Maps and S-57 navigational charts (water only) together, click the **Open Street Maps** button, the **ENC All** button (or any **ENC mode** of your choice), and the **Water Only** button in the toolbar.

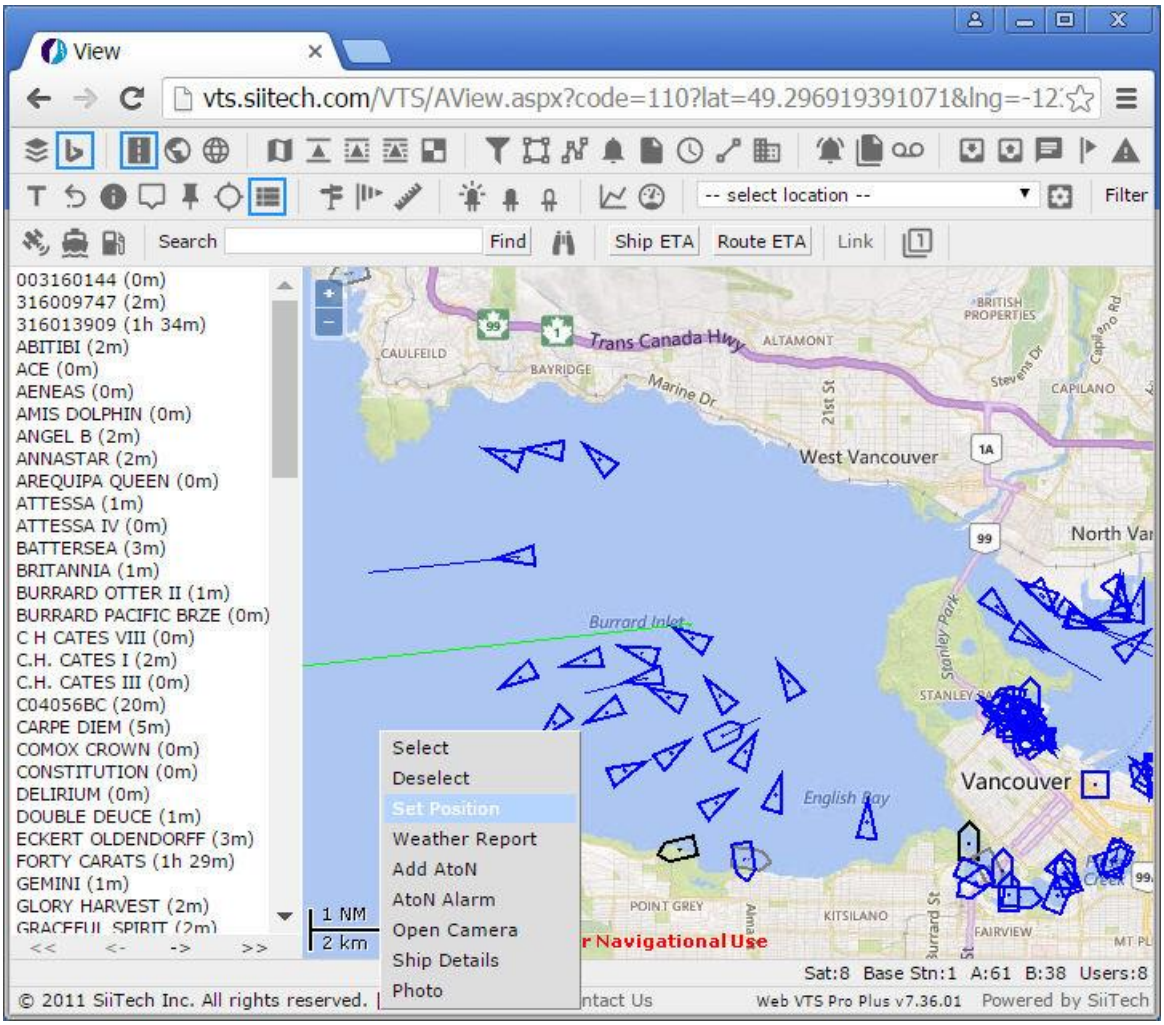


To display Bing Maps (satellite mode) and S-57 navigational charts (water only) together, click the **Bing Maps** button , the **Satellite** button , the **ENC All** button (or any **ENC mode** of your choice), and the **Water Only** button in the toolbar.

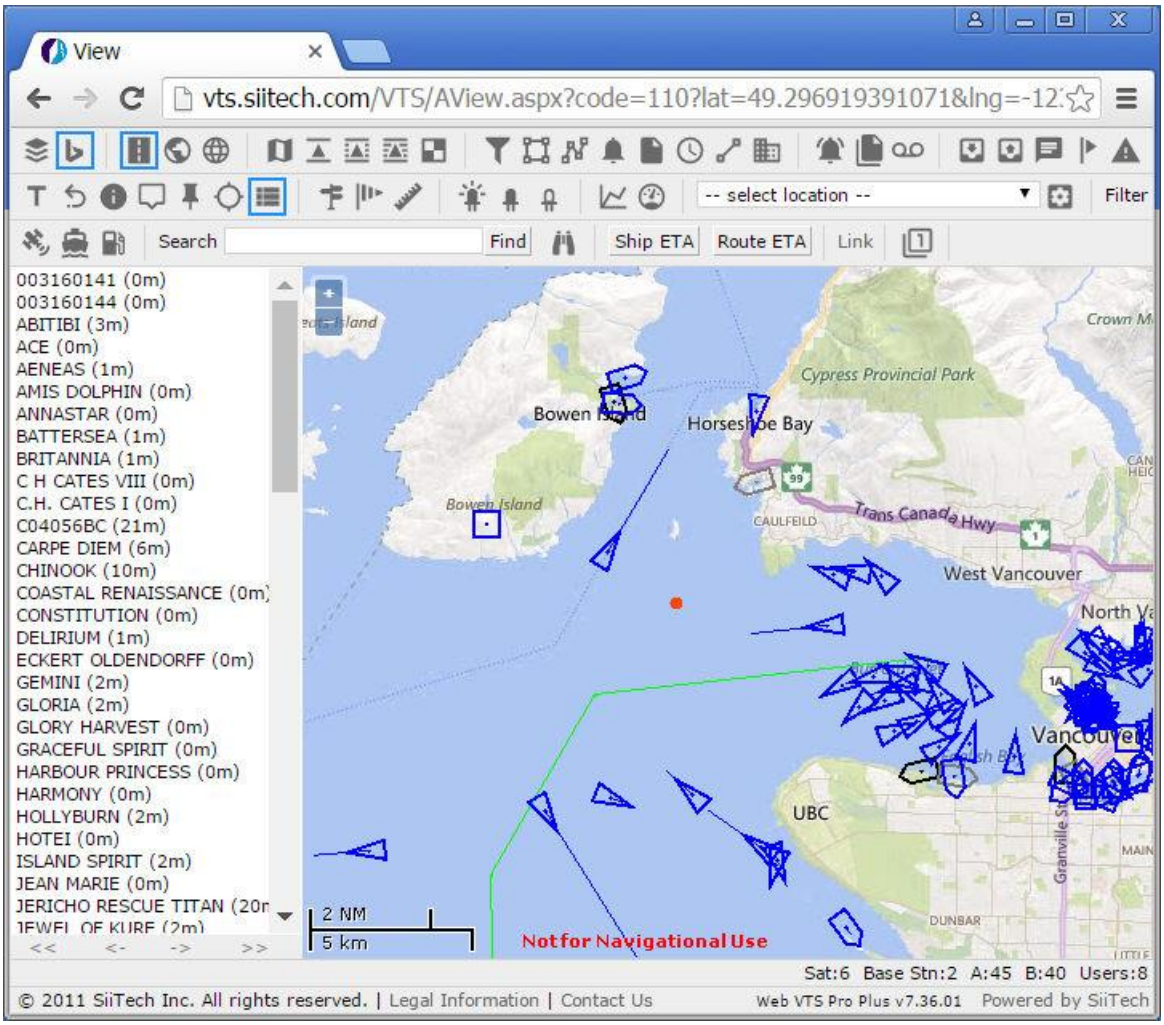


View Distance and Bearing

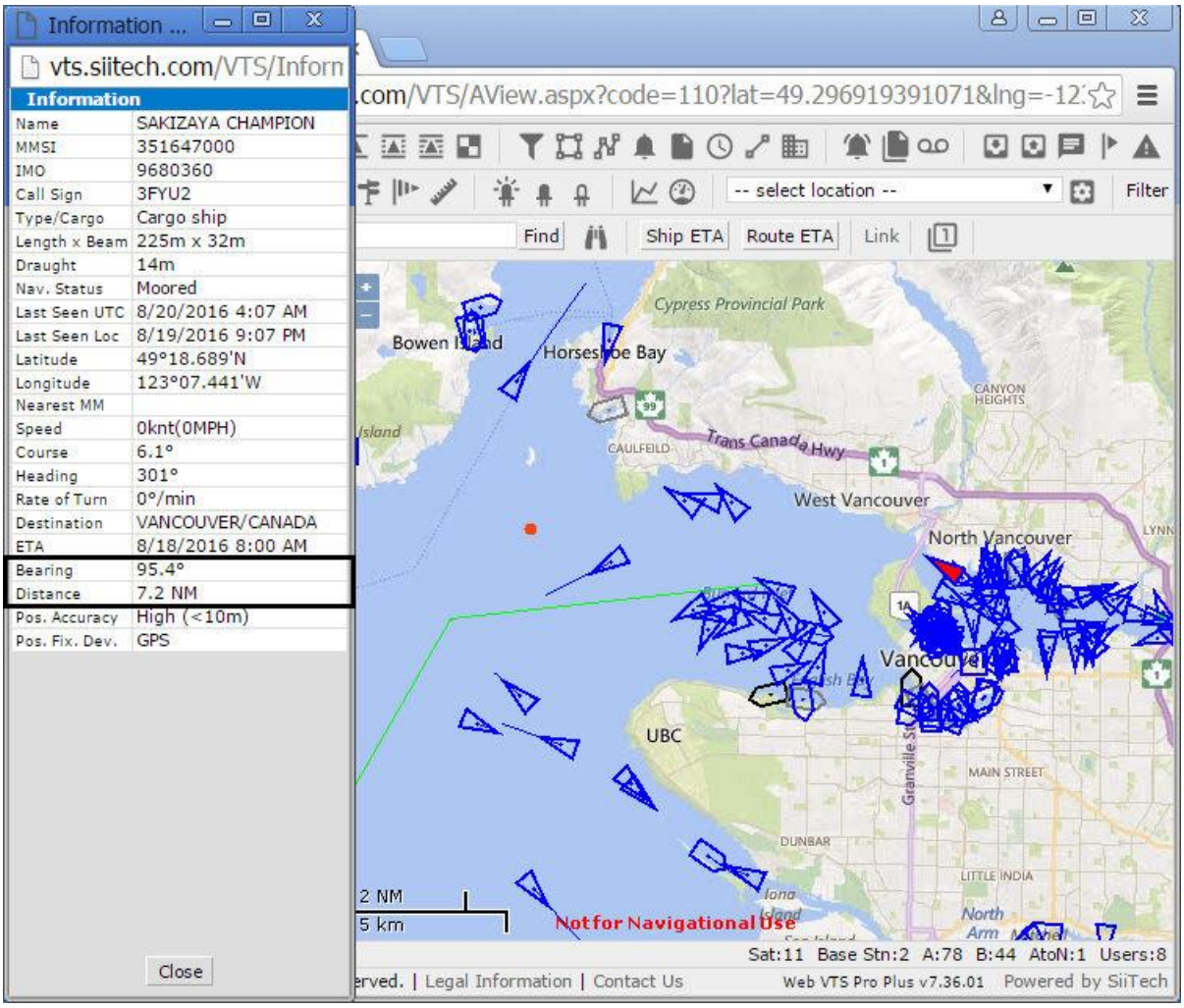
1. Right-click on your desired position on the map view. Select the **Set Position** option from the context menu.



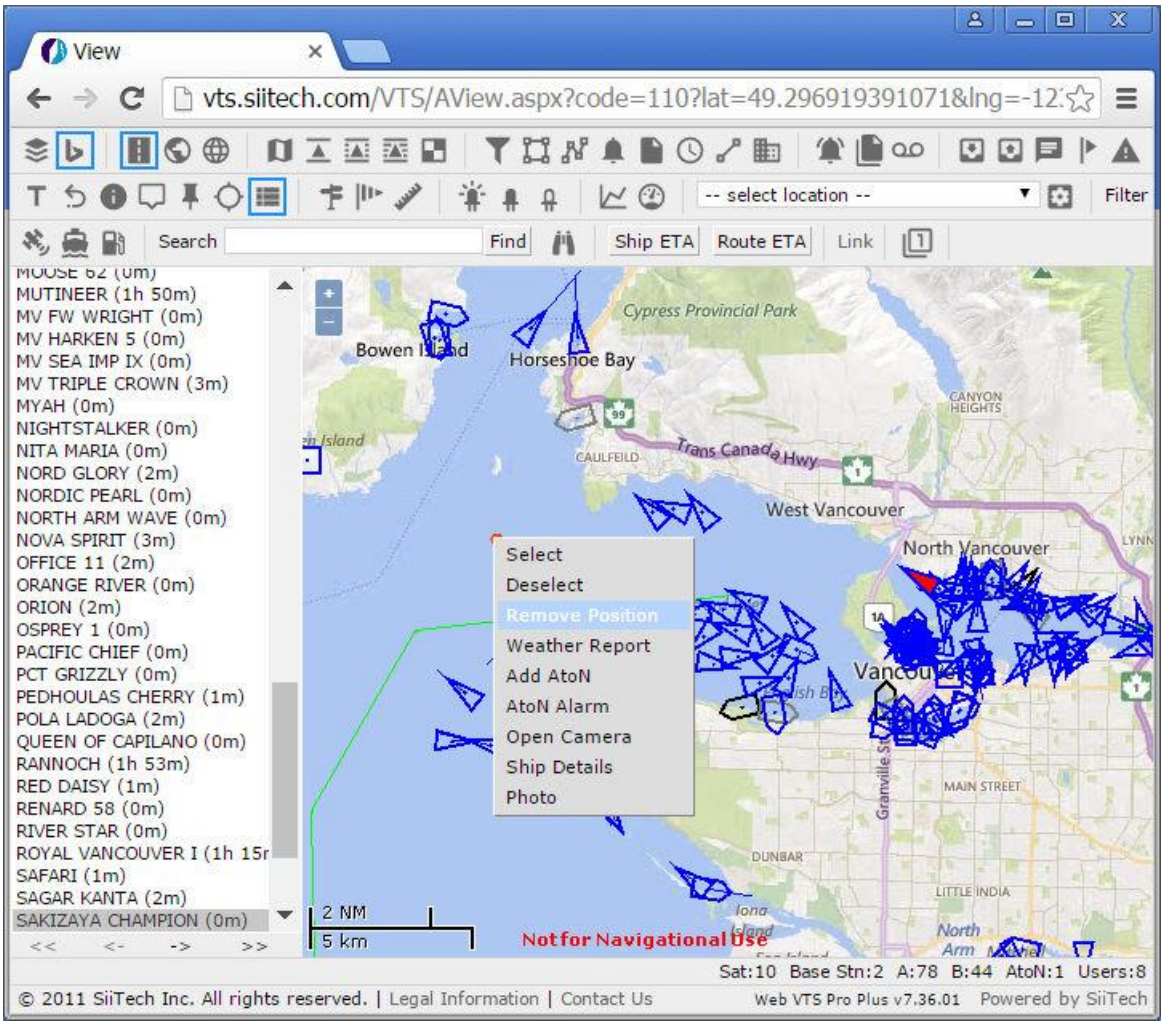
2. A red dot will appear on the map at the point where you clicked.



3. Select your ship to see distance and bearing to the set position. Click on the **Information Panel** button ⓘ in the toolbar to view the distance and bearing.



4. To remove the red dot, right-click on it and select the **Remove Position** option from the context menu.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-- select location --
Filter
Search
Find
Ship ETA
Route ETA
Link
MUTINEER (1h 50m)
MV FW WRIGHT (0m)
MV HARKEN 5 (0m)
MV SEA IMP IX (0m)
MV TRIPLE CROWN (3m)
MYAH (0m)
NIGHTSTALKER (0m)
NITA MARIA (0m)
NORD GLORY (2m)
NORDIC PEARL (0m)
NORTH ARM WAVE (0m)
NOVA SPIRIT (3m)
OFFICE 11 (2m)
ORANGE RIVER (0m)
ORION (2m)
OSPREY 1 (0m)
PACIFIC CHIEF (0m)
PCT GRIZZLY (0m)
PEDHOULAS CHERRY (1m)
POLA LADOGA (2m)
QUEEN OF CAPILANO (0m)
RANNOCH (1h 53m)
RED DAISY (1m)
RENARD 58 (0m)
RIVER STAR (0m)
ROYAL VANCOUVER I (1h 15r
SAFARI (1m)
SAGAR KANTA (2m)
SAKIZAYA CHAMPION (0m)
<< <- -> >>
Cypress Provincial Park
Bowen Island
Horseshoe Bay
CANYON HEIGHTS
CAULFEILD
Trans Canada Hwy
West Vancouver
North Vancouver
Vancouver
MAIN STREET
Granville St
DUNBAR
LITTLE INDIA
Iona Island
North Arm
Select
Deselect
Remove Position
Weather Report
Add AtoN
AtoN Alarm
Open Camera
Ship Details
Photo
2 NM
5 km
Not for Navigational Use
Sat:10 Base Stn:2 A:78 B:44 AtoN:1 Users:8
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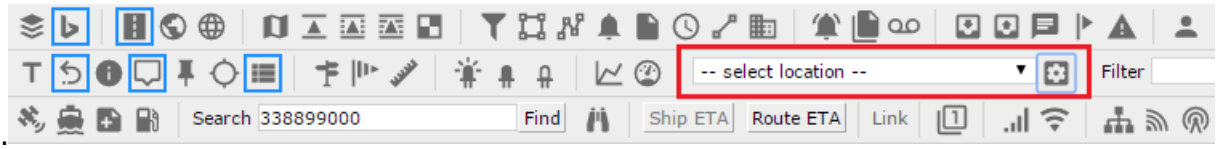
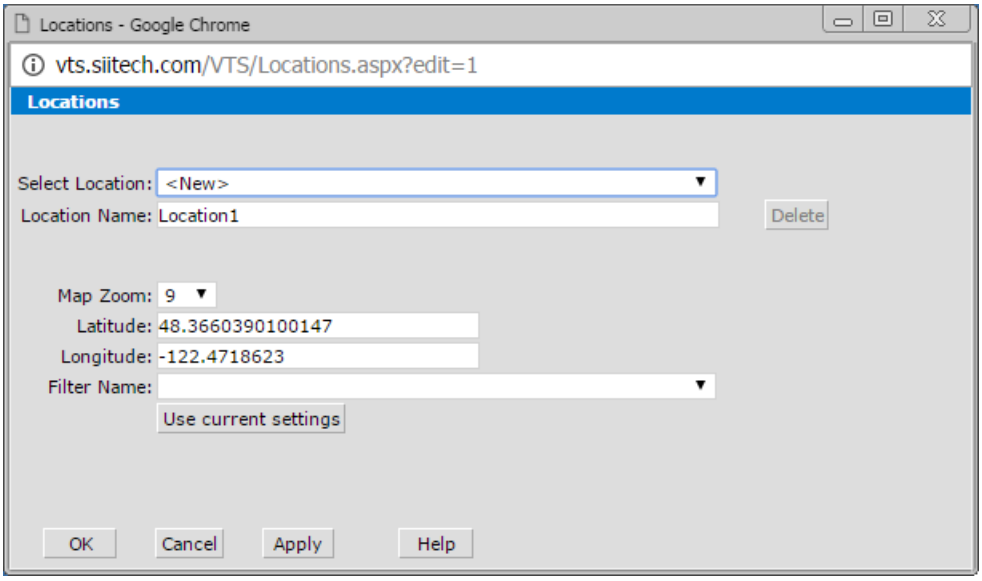
Locations

Select a predefined location from the drop-down list to center the map on your desired location.



Click the icon to open the **Locations** window and add or edit location data.



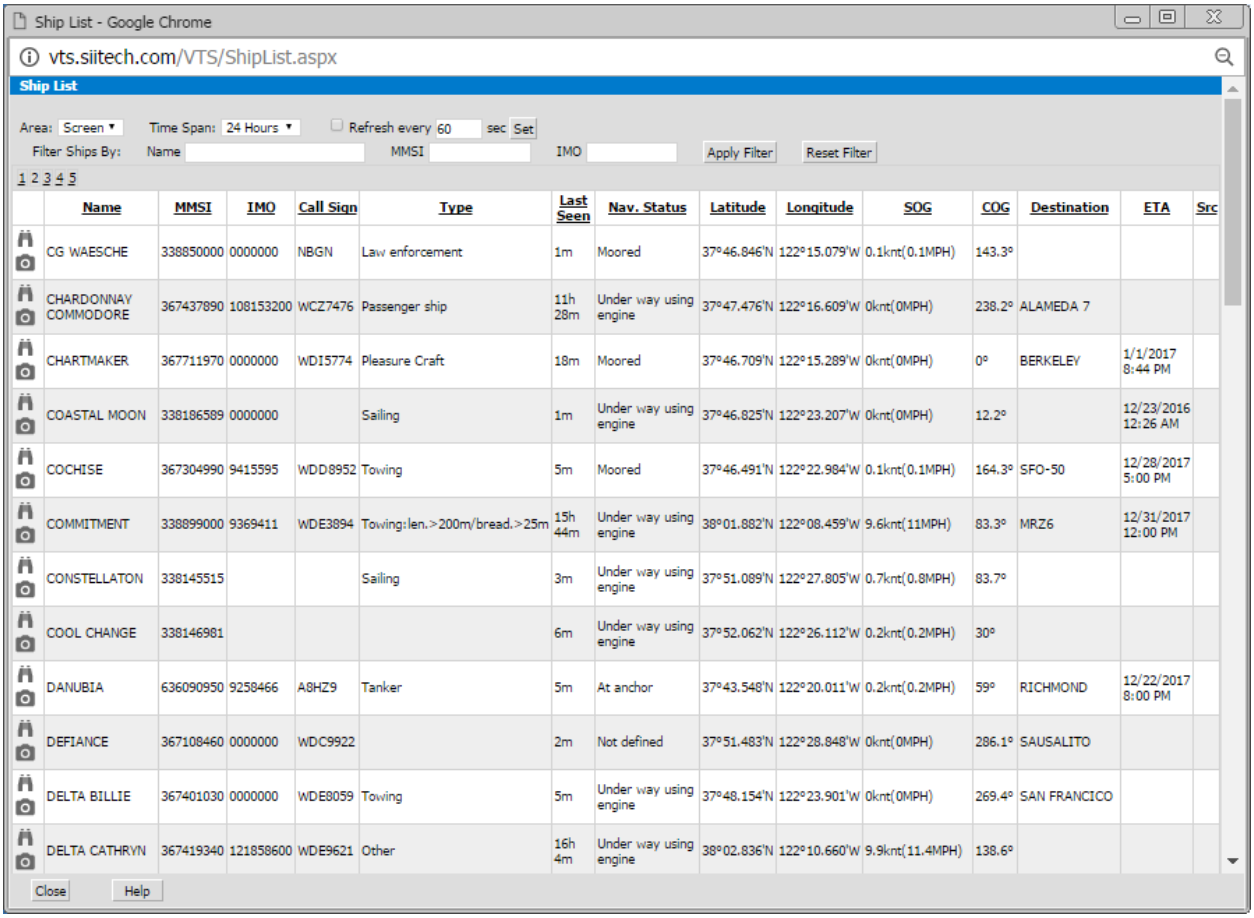
You may edit existing locations or add new locations. Click the **Use current settings** button to insert your current map view location and zoom level into the form.

Ships

Ship List

Click the **Ship List** button in the toolbar to open the **Ship List** window.

In the **Ship List** window, you may find information about any ship in the database. This information is collected from AIS messages that are received by the system.



Name	MMSI	IMO	Call Sign	Type	Last Seen	Nav. Status	Latitude	Longitude	SOG	COG	Destination	ETA	Src
CG WAESCHE	338850000	0000000	NBGN	Law enforcement	1m	Moored	37°46.846'N	122°15.079'W	0.1knt(0.1MPH)	143.3°			
CHARDONNAY COMMODORE	367437890	108153200	WCZ7476	Passenger ship	11h 28m	Under way using engine	37°47.476'N	122°16.609'W	0knt(0MPH)	238.2°	ALAMEDA 7		
CHARTMAKER	367711970	0000000	WDI5774	Pleasure Craft	18m	Moored	37°46.709'N	122°15.289'W	0knt(0MPH)	0°	BERKELEY	1/1/2017 8:44 PM	
COASTAL MOON	338186589	0000000		Sailing	1m	Under way using engine	37°46.825'N	122°23.207'W	0knt(0MPH)	12.2°		12/23/2016 12:26 AM	
COCHISE	367304990	9415595	WDD8952	Towing	5m	Moored	37°46.491'N	122°22.984'W	0.1knt(0.1MPH)	164.3°	SFO-50	12/28/2017 5:00 PM	
COMMITMENT	338899000	9369411	WDE3894	Towing:len.>200m/bread.>25m	15h 44m	Under way using engine	38°01.882'N	122°08.459'W	9.6knt(11MPH)	83.3°	MRZ6	12/31/2017 12:00 PM	
CONSTELLATON	338145515			Sailing	3m	Under way using engine	37°51.089'N	122°27.805'W	0.7knt(0.8MPH)	83.7°			
COOL CHANGE	338146981				6m	Under way using engine	37°52.062'N	122°26.112'W	0.2knt(0.2MPH)	30°			
DANUBIA	636090950	9258466	A8HZ9	Tanker	5m	At anchor	37°43.548'N	122°20.011'W	0.2knt(0.2MPH)	59°	RICHMOND	12/22/2017 8:00 PM	
DEFIANCE	367108460	0000000	WDC9922		2m	Not defined	37°51.483'N	122°28.848'W	0knt(0MPH)	286.1°	SAUSALITO		
DELTA BILLIE	367401030	0000000	WDE8059	Towing	5m	Under way using engine	37°48.154'N	122°23.901'W	0knt(0MPH)	269.4°	SAN FRANCICO		
DELTA CATHRYN	367419340	121858600	WDE9621	Other	16h 4m	Under way using engine	38°02.836'N	122°10.660'W	9.9knt(11.4MPH)	138.6°			

Area. Set the area of monitored data. Select "Screen" from the **Area** drop-down list to view ship information for the ships which are visible in your current map view. Select "All" to view ship information for all ships in the system.

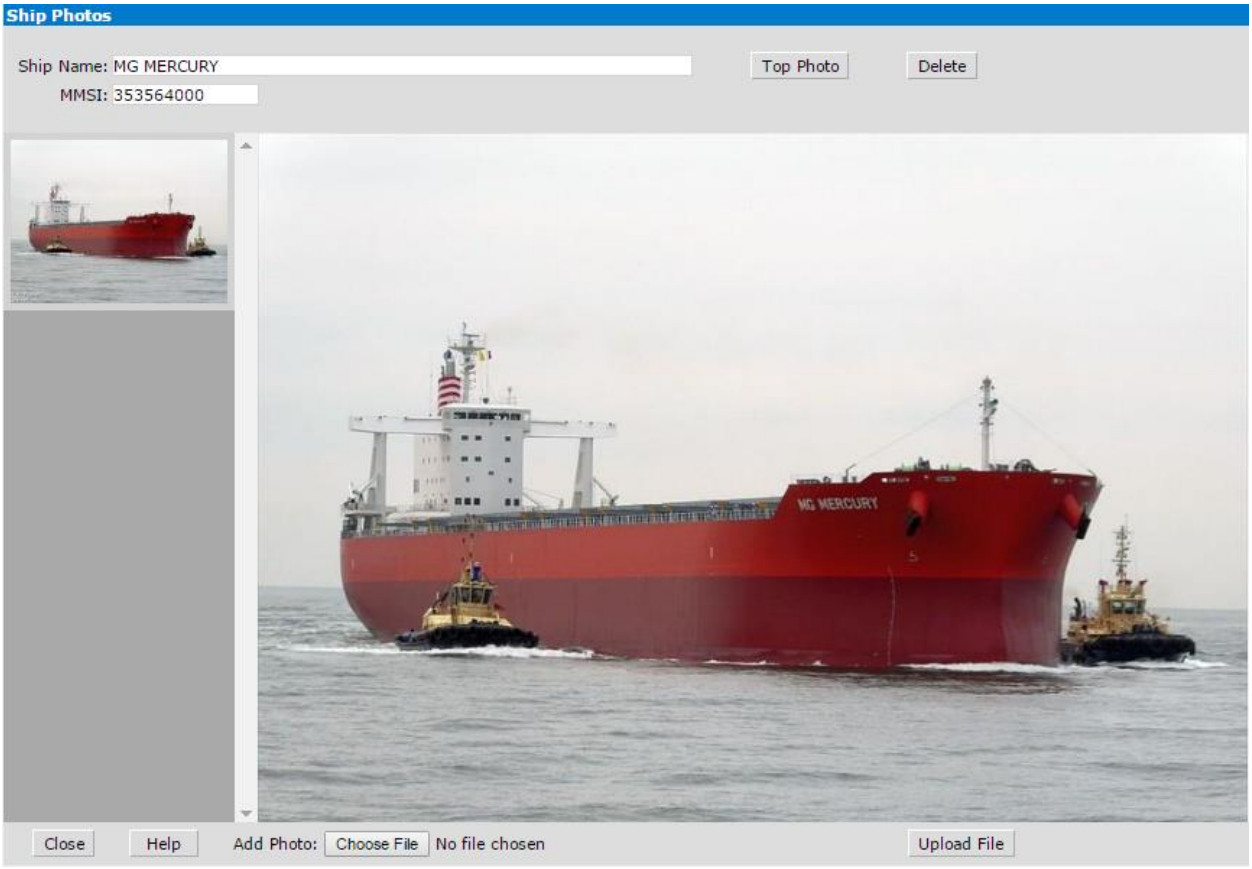
Time Span. Set the time span of monitored data. Use the **Time Span** drop-down list to select how far back in time you want to view ship information.

Refresh every ___ sec. Use this field to type how often you would like to check for recently sent messages and click the **Set** button to apply your changes.

Filter Ships By. Use the **Name, MMSI,** or **IMO** fields to list specific ships only. Type ship name or MMSI into the appropriate field and click the **Apply** button. *Note*: You may use only part of the name, MMSI number, or IMO number for the search.

Click the binocular icon to see the selected ship centered on the map view. If there is no real-time data for this ship, the system will automatically open the **History Replay** window, switch to **History Replay** mode, and show you the ship's last reported position.

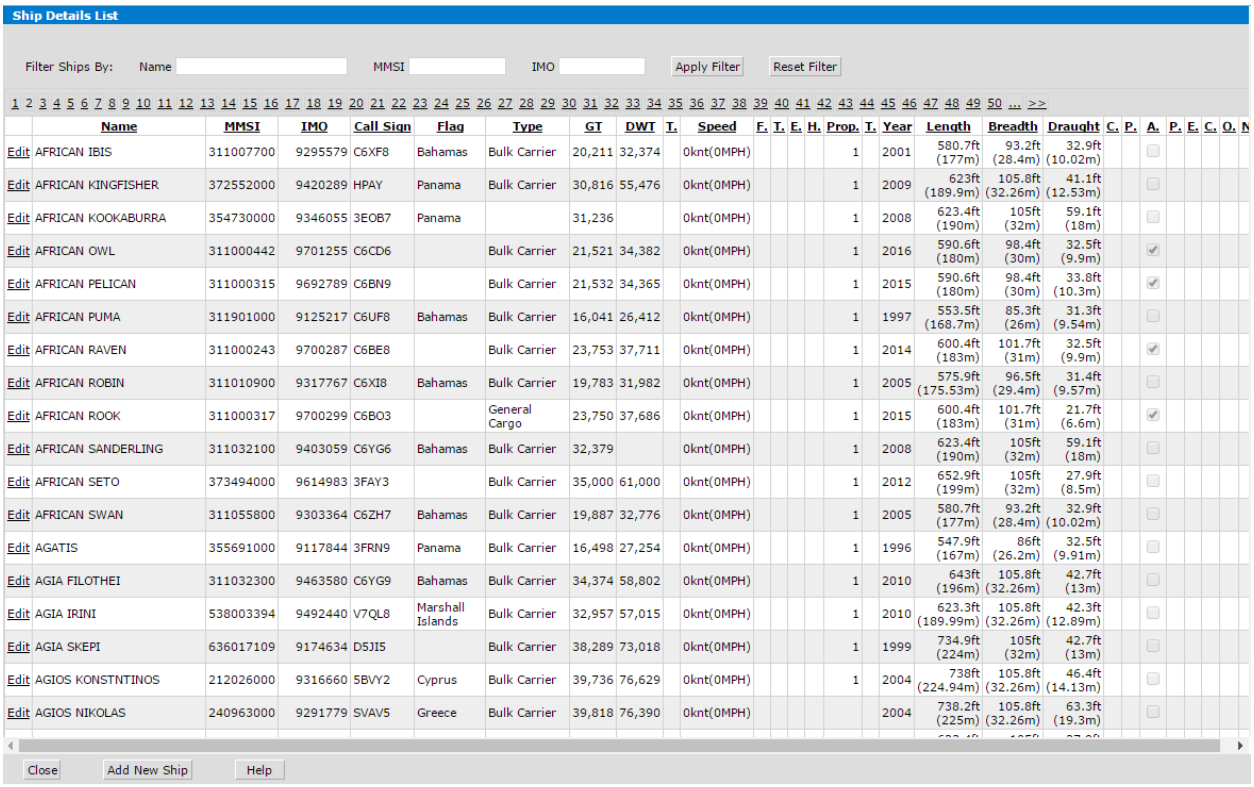
Click the camera icon to view the ship's photo.



Ship Details List

Click the **Ship Details** button to open the **Ship Details List** window.

In the **Ship Details List** window, you may view technical data about any ship in the database. This information is manually entered into the system by the administrator or user(s).



Ship Details List

Filter Ships By: Name MMSI IMO Apply Filter Reset Filter

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 ... >>

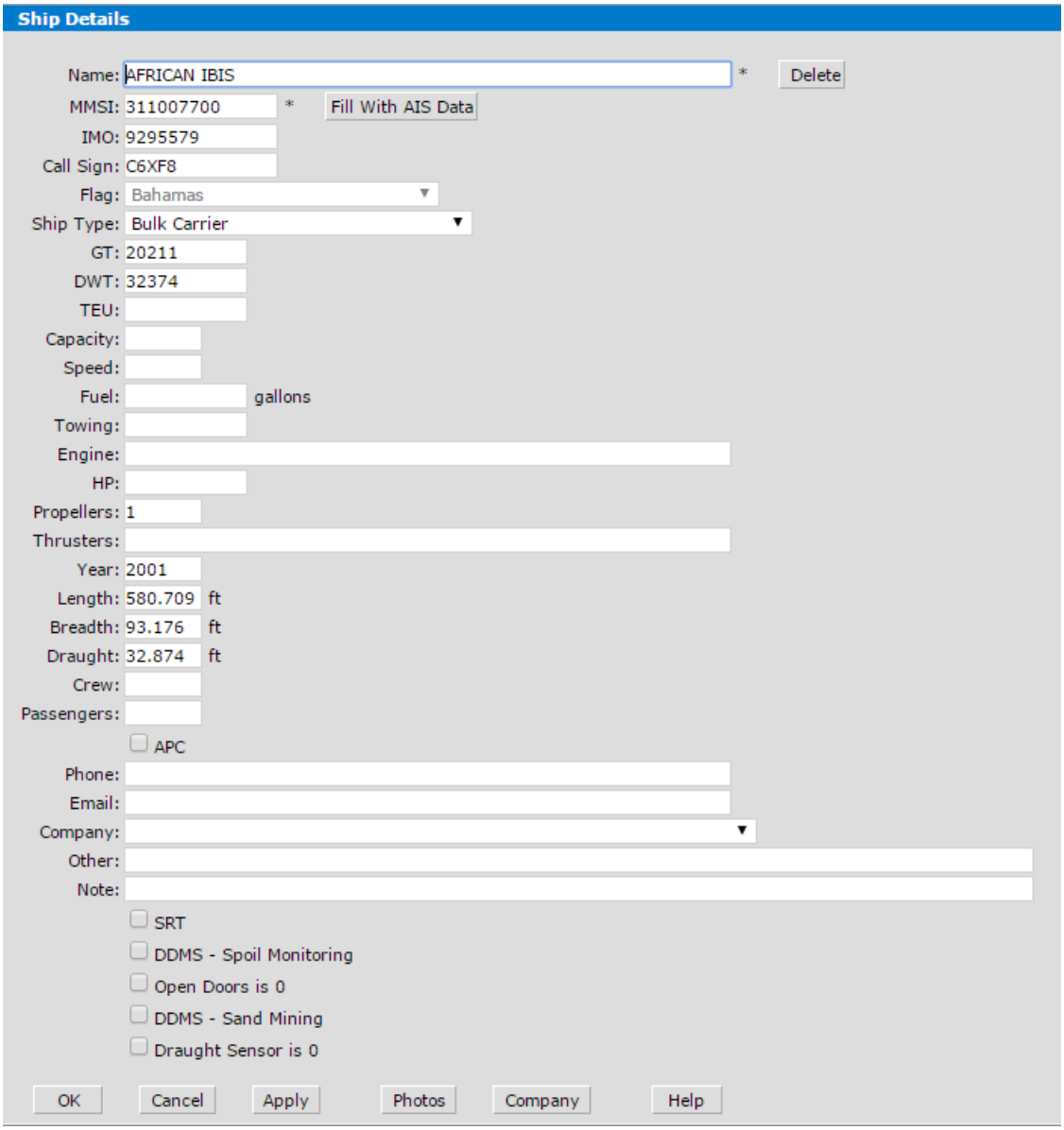
	Name	MMSI	IMO	Call Sign	Flag	Type	GT	DWT	T.	Speed	F.	T.	E.	H.	Prop.	T.	Year	Length	Breadth	Draught	C.	P.	A.	P.	E.	C.	O.	N
Edit	AFRICAN IBIS	311007700	9295579	C6XF8	Bahamas	Bulk Carrier	20,211	32,374		0knt(0MPH)					1		2001	580.7ft (177m)	93.2ft (28.4m)	32.9ft (10.02m)			☐					
Edit	AFRICAN KINGFISHER	372552000	9420289	HPAY	Panama	Bulk Carrier	30,816	55,476		0knt(0MPH)					1		2009	623ft (189.9m)	105.8ft (32.26m)	41.1ft (12.53m)			☐					
Edit	AFRICAN KOOKABURRA	354730000	9346055	3EOB7	Panama		31,236			0knt(0MPH)					1		2008	623.4ft (190m)	105ft (32m)	59.1ft (18m)			☐					
Edit	AFRICAN OWL	311000442	9701255	C6CD6		Bulk Carrier	21,521	34,382		0knt(0MPH)					1		2016	590.6ft (180m)	98.4ft (30m)	32.5ft (9.9m)			☑					
Edit	AFRICAN PELICAN	311000315	9692789	C6BN9		Bulk Carrier	21,532	34,365		0knt(0MPH)					1		2015	590.6ft (180m)	98.4ft (30m)	33.8ft (10.3m)			☑					
Edit	AFRICAN PUMA	311901000	9125217	C6UF8	Bahamas	Bulk Carrier	16,041	26,412		0knt(0MPH)					1		1997	553.5ft (168.7m)	85.3ft (26m)	31.3ft (9.54m)			☐					
Edit	AFRICAN RAVEN	311000243	9700287	C6BE8		Bulk Carrier	23,753	37,711		0knt(0MPH)					1		2014	600.4ft (183m)	101.7ft (31m)	32.5ft (9.9m)			☑					
Edit	AFRICAN ROBIN	311010900	9317767	C6XI8	Bahamas	Bulk Carrier	19,783	31,982		0knt(0MPH)					1		2005	575.9ft (175.53m)	96.5ft (29.4m)	31.4ft (9.57m)			☐					
Edit	AFRICAN ROOK	311000317	9700299	C6BO3		General Cargo	23,750	37,686		0knt(0MPH)					1		2015	600.4ft (183m)	101.7ft (31m)	21.7ft (6.6m)			☑					
Edit	AFRICAN SANDERLING	311032100	9403059	C6YG6	Bahamas	Bulk Carrier	32,379			0knt(0MPH)					1		2008	623.4ft (190m)	105ft (32m)	59.1ft (18m)			☐					
Edit	AFRICAN SETO	373494000	9614983	3FAY3		Bulk Carrier	35,000	61,000		0knt(0MPH)					1		2012	652.9ft (199m)	105ft (32m)	27.9ft (8.5m)			☐					
Edit	AFRICAN SWAN	311055800	9303364	C6ZH7	Bahamas	Bulk Carrier	19,887	32,776		0knt(0MPH)					1		2005	580.7ft (177m)	93.2ft (28.4m)	32.9ft (10.02m)			☐					
Edit	AGATIS	355691000	9117844	3FRN9	Panama	Bulk Carrier	16,498	27,254		0knt(0MPH)					1		1996	547.9ft (167m)	86ft (26.2m)	32.5ft (9.91m)			☐					
Edit	AGIA FILOTHEI	311032300	9463580	C6YG9	Bahamas	Bulk Carrier	34,374	58,802		0knt(0MPH)					1		2010	643ft (196m)	105.8ft (32.26m)	42.7ft (13m)			☐					
Edit	AGIA IRINI	538003394	9492440	V7QL8	Marshall Islands	Bulk Carrier	32,957	57,015		0knt(0MPH)					1		2010	623.3ft (189.99m)	105.8ft (32.26m)	42.3ft (12.89m)			☐					
Edit	AGIA SKEPI	636017109	9174634	D5JI5		Bulk Carrier	38,289	73,018		0knt(0MPH)					1		1999	734.9ft (224m)	105ft (32m)	42.7ft (13m)			☐					
Edit	AGIOS KONSTNTINOS	212026000	9316660	5BVY2	Cyprus	Bulk Carrier	39,736	76,629		0knt(0MPH)					1		2004	738ft (224.94m)	105.8ft (32.26m)	46.4ft (14.13m)			☐					
Edit	AGIOS NIKOLAS	240963000	9291779	SVAV5	Greece	Bulk Carrier	39,818	76,390		0knt(0MPH)							2004	738.2ft (225m)	105.8ft (32.26m)	63.3ft (19.3m)			☐					

Close Add New Ship Help

Filter Ships By. Use the **Name, MMSI,** or **IMO** fields to list specific ships only. Type ship name or MMSI into the appropriate field and click the **Apply** button. *Note*: You may use only part of the name, MMSI number, or IMO number for the search.

Click the **Add New Ship** button at the bottom of the window to input a new ship into the list.

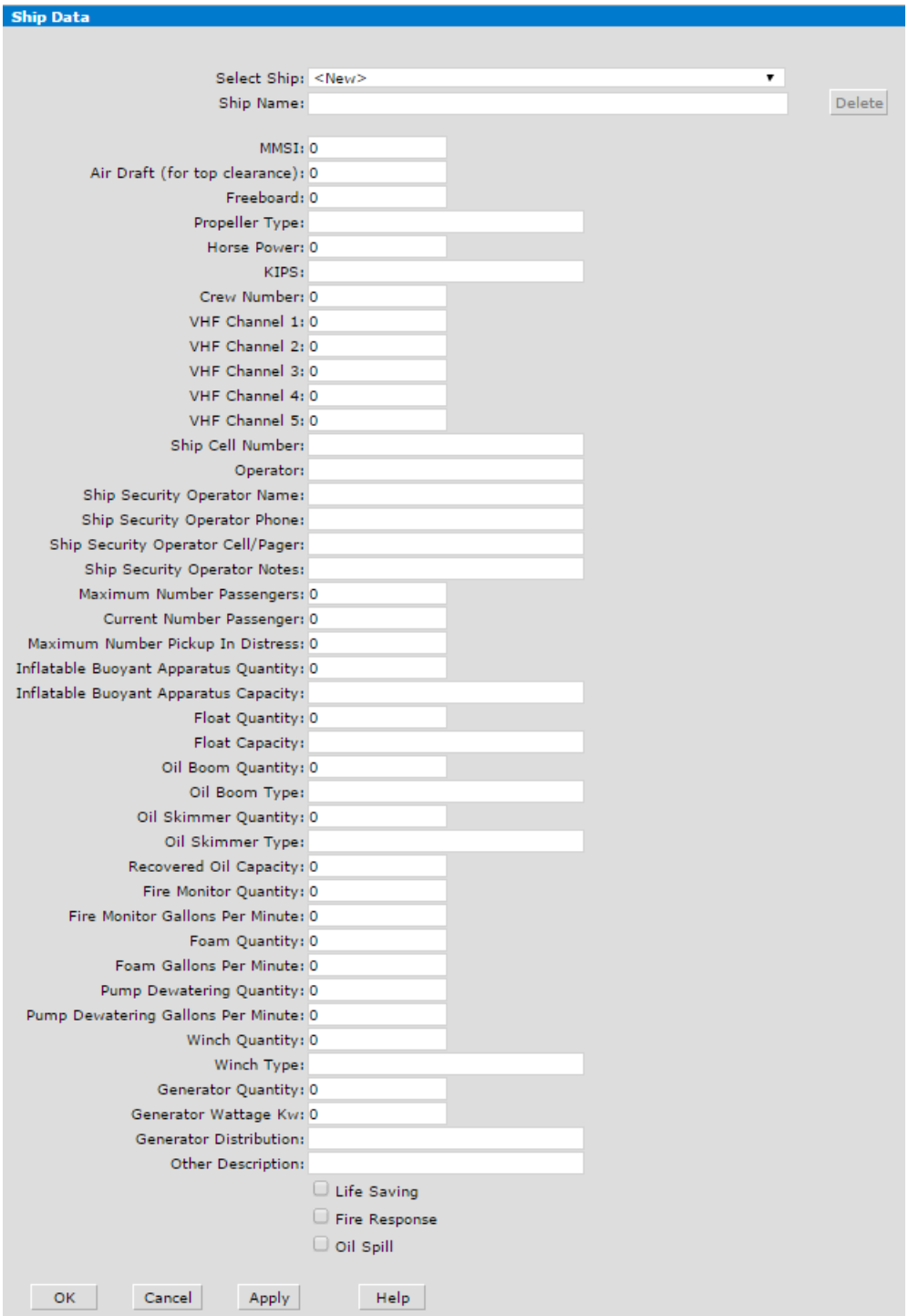
Click the **Edit** link in the first column of the table to go to the **Ship Details** window.



Ship Data

Use the Ship Data form to enter all necessary ship information into the system. You may need this information for Emergency and Incident Command Support or for keeping the ship data accessible.

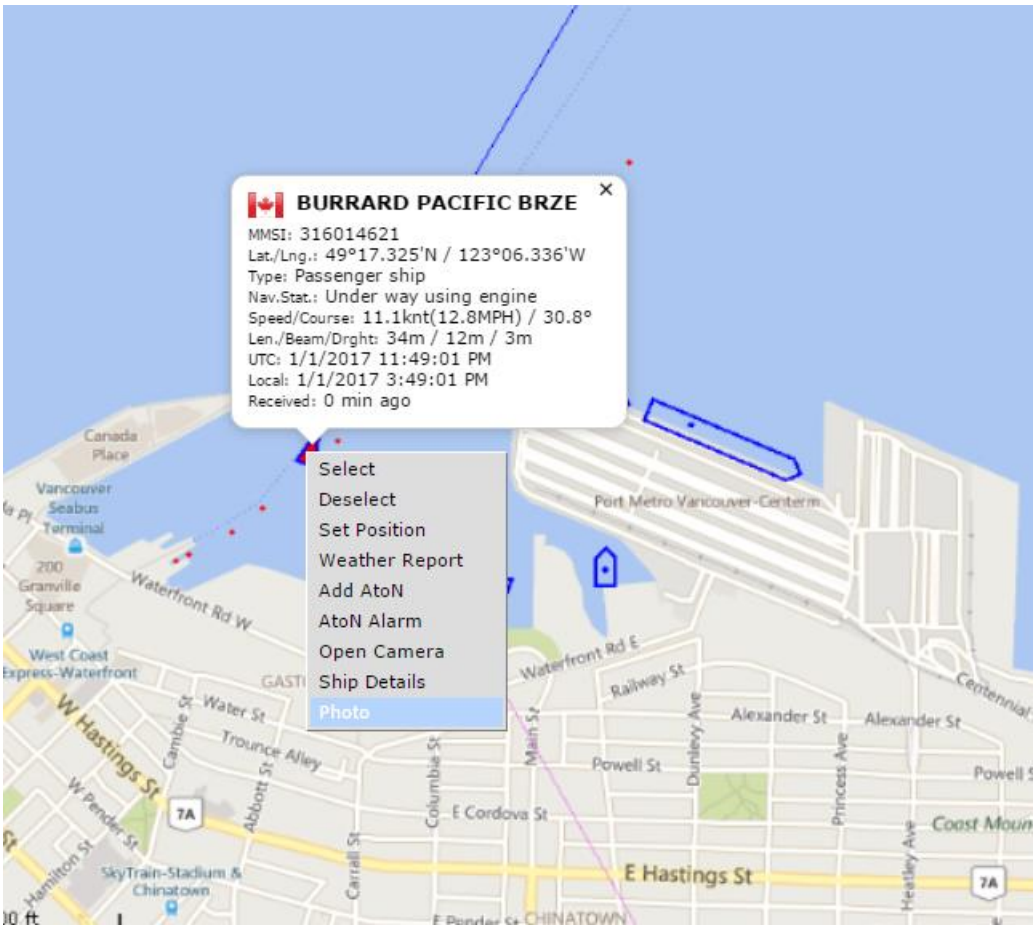
Click the **Ship Data** button to open the **Ship Data** form in a new window.



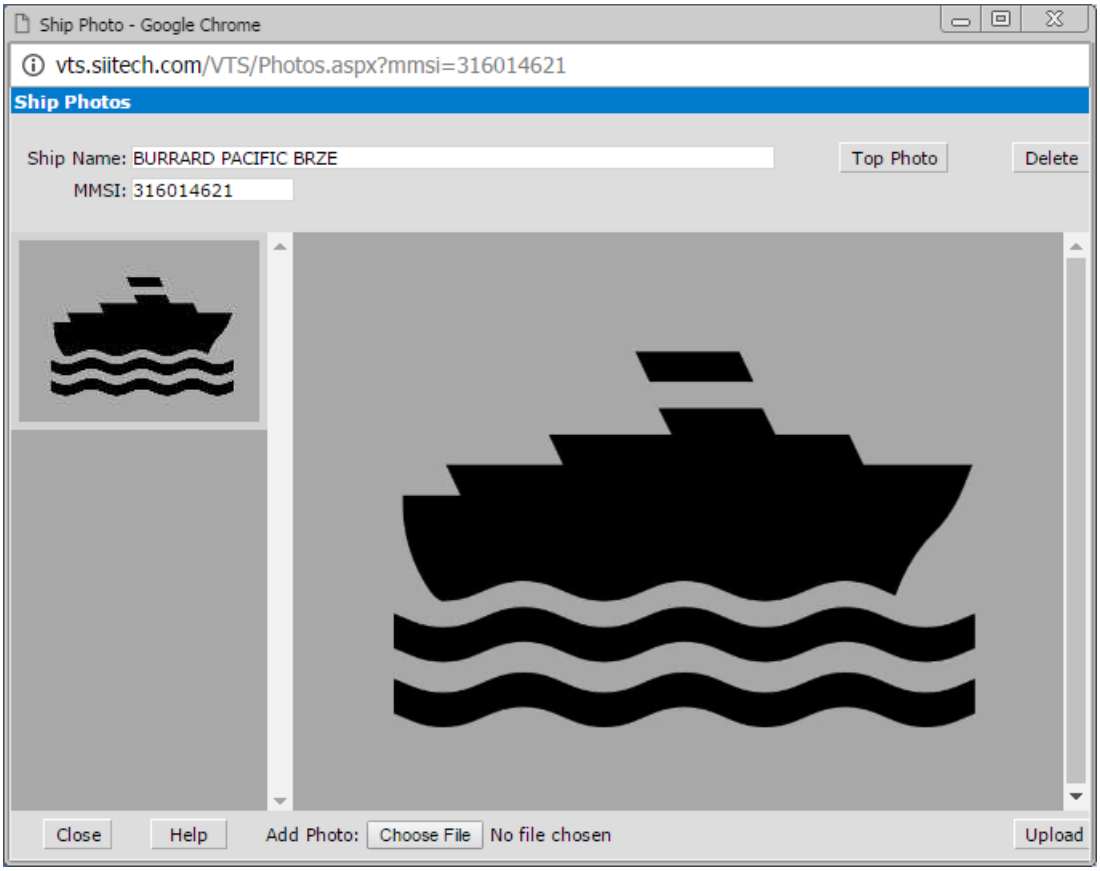
Ship Photos

To add or edit ship photos:

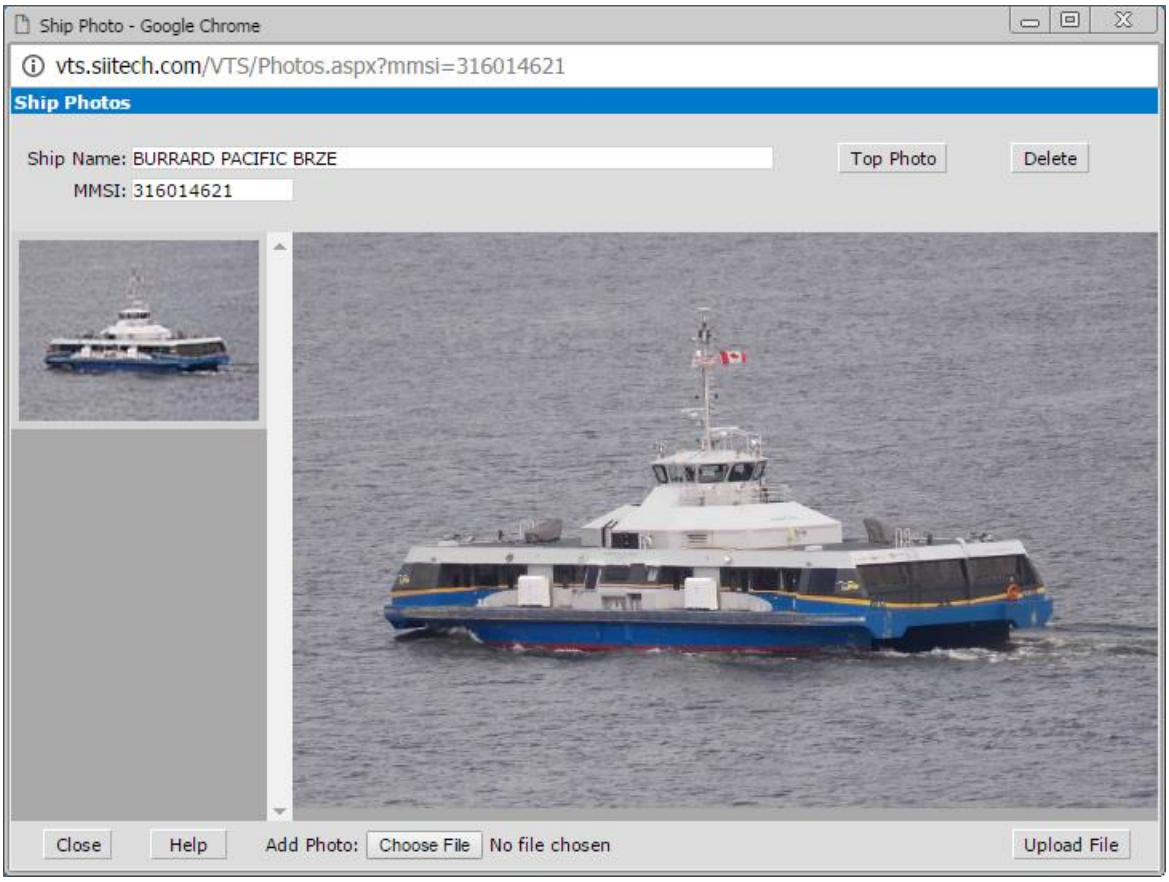
1. Right-click on the ship and select **Photo** from the list.



After selecting **Photo** from the list, you will see the **Ship Photos** window.

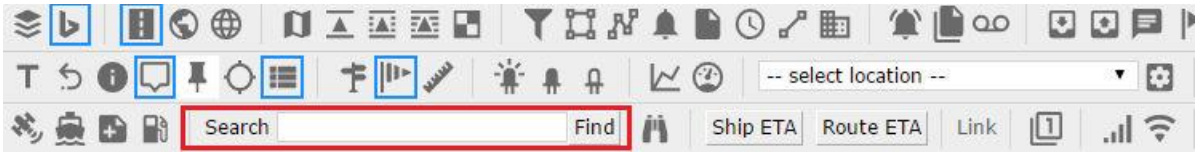


To add a photo, click the **Choose File** button to select an image, and then click the **Upload File** button to upload it to the server.



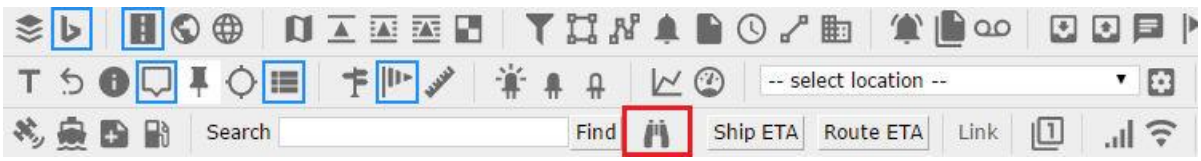
Search Ship on Map

To find the ship on the map, enter the ship name or MMSI number or call sign into the **Search** box and click the **Find** button. If the ship is still visible on the map, Web VTS will locate the ship and center the map on the ship's last reported position.



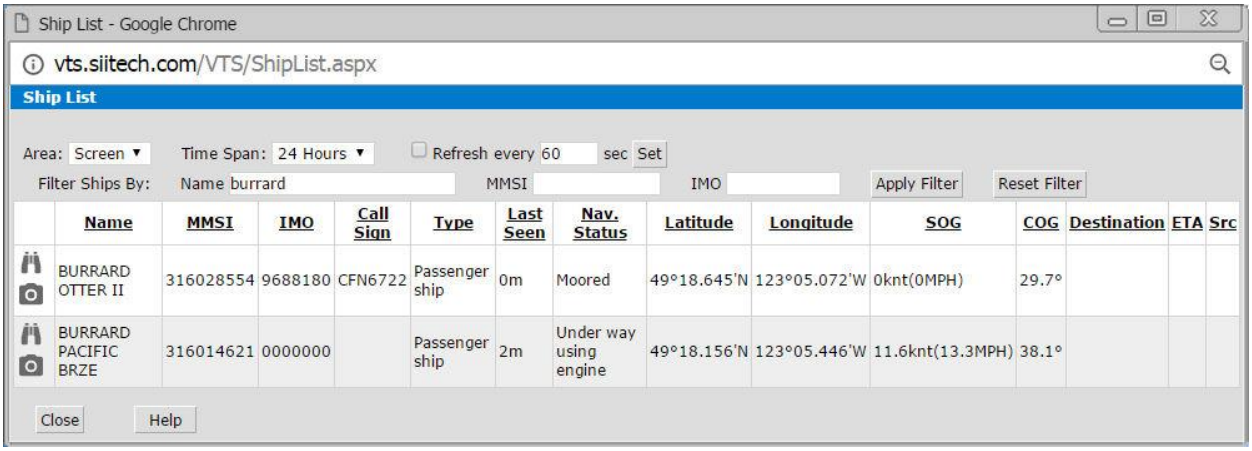
Search Ship in Database

To find the ship in the database, click the **Ship List** button in the toolbar to open the **Ship List** window.



In the **Ship List** window, enter the ship name or MMSI number or IMO number into the **Filter Ships By** field(s) and click the **Apply Filter** button.

For example, typing "Burrard" into the **Name** field will return two ships containing "Burrard" in their names.



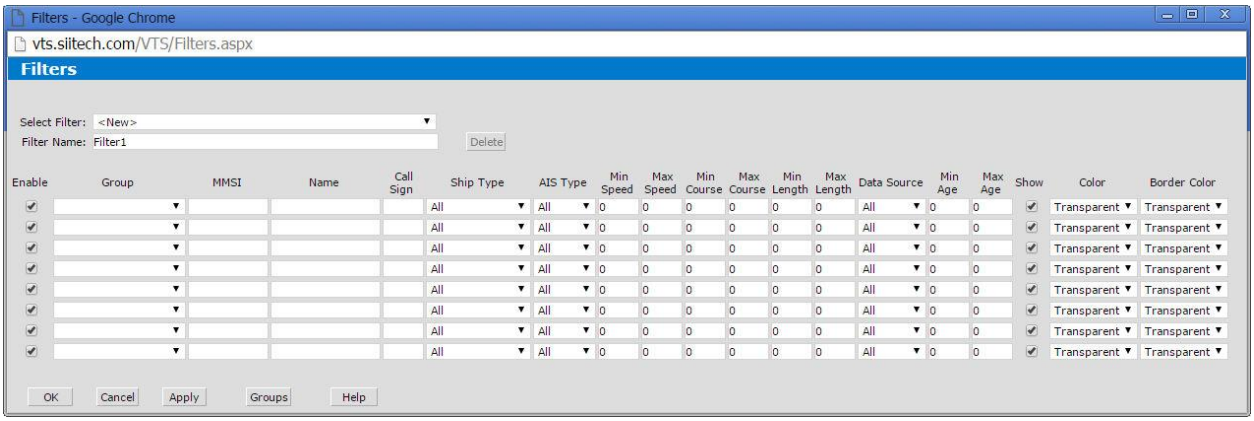
If the search results return your desired ship, click the **Show on Chart** button on the far left side of the table. If the ship is still visible on the map, Web VTS will locate the ship and center the map on the ship's last reported position. You will see the ship's name highlighted in the ship names column on the left side of the map.

Filters

Filter Designer

The **Filter Designer** is a tool that allows users to select which ships (AIS targets) to display.

Click the **Filter Designer** button in the toolbar to open the **Filter Designer** in a new window.



Note: the **Filter Designer** contains several identical lines. Each of these lines represents a condition of the filter. The first line has the highest priority.

Select Filter. Select any existing filter or create a new one from the drop-down menu.

Filter Name. Use this box to display and edit the filter name (by default the program names each new filter “FilterN”, where N is the first available number).

Delete. Delete any existing filter.

Enable. Activate a condition.

Group. Select a predefined group.

MMSI. Enter the MMSI number of the ship.

Name. Enter the name of the ship.

Call Sign. Enter the call sign of the ship.

Ship Type. Select ship type or specify important information (e.g. dangerous cargo).

AIS Type. Select AIS targets based on AIS type (e.g. Base Station, Class A, Class B, AtoN, SAR Aircraft).

Min/Max Speed. Minimum and maximum speed of the ship.

Min/Max Course. Specify minimum and maximum values of course interval for each ship.

Min/Max Length. Minimum and maximum length of the ship.

Data Source. Signal source (e.g. satellite, land station, LRIT).

Show. Check this box to show the selected ships. Uncheck the box to hide selected ships.

Color/Border. Choose desired color from the drop-down list.

OK. Save changes and return to the main view.

Cancel. Cancel all changes and return to the main view.

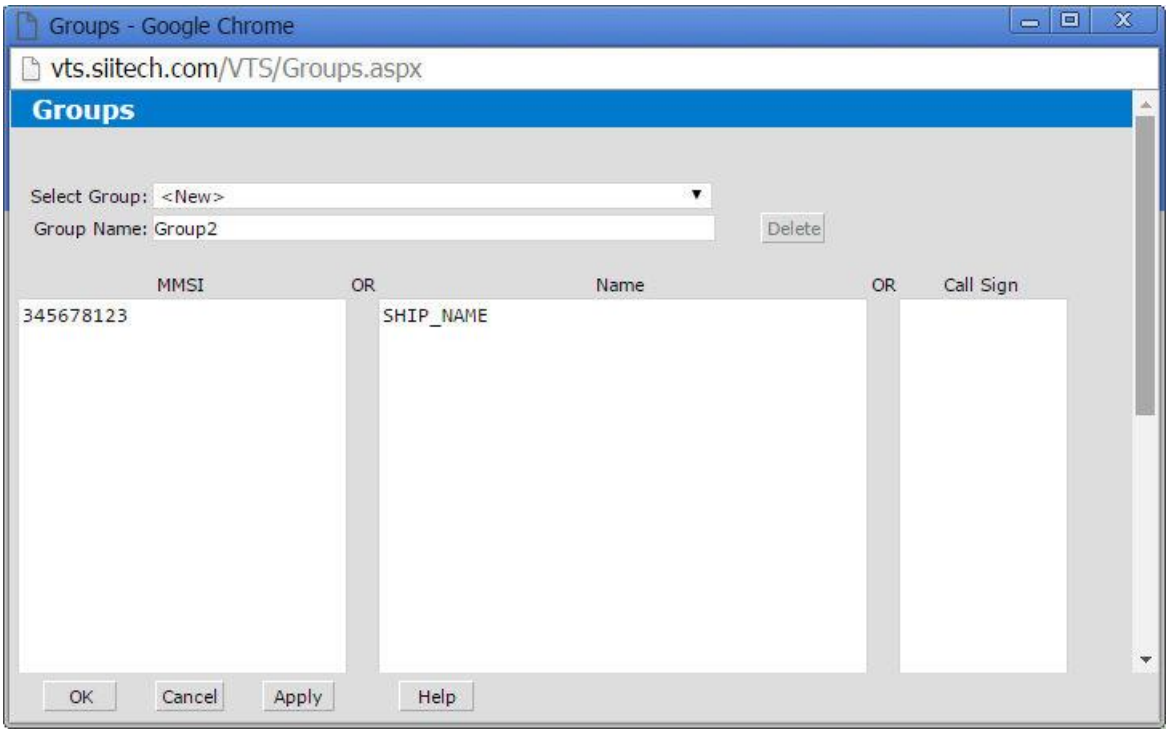
Apply. Save changes and leave the **Filter Designer** window open.

Groups. Open **Group Designer** panel and create ship group(s).

Help. Open Web VTS User's Guide.

Creating a Group

To build a group of ships click the **Groups** button. You will see the **Groups Designer** panel.



Select Group. Select any existing filter or create a new one from the drop-down menu.

Group Name. Use this box to display and edit the group name (by default the program names each new filter “GroupN”, where N is the first available number).

Delete. Delete any existing group.

MMSI. Specify MMSI numbers of all ships in the group.

Name. Specify names of all ships in the group.

Call Sign. Specify call signs of all ships in the group.

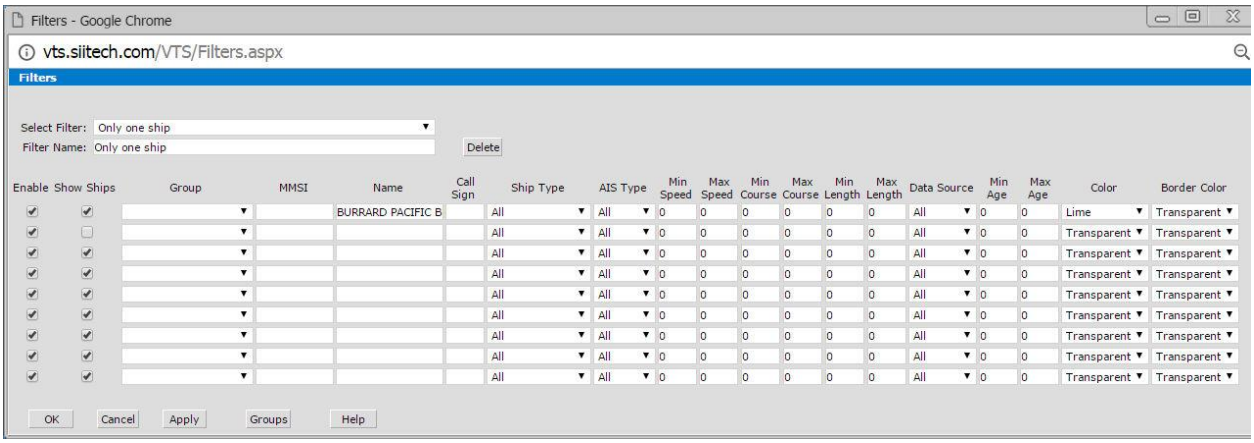
One Ship Only Filter

This filter will display only the BURRARD PACIFIC BRZE ship and hide all others.

- Click the **Filter Designer** button to open the **Filter Designer** window.
- Select "<New>" from the **Select Filter** list.
- Type "Only one ship" instead of "FilterN" (where "N" is the first available number) in the **Filter Name** field.

Note: The **Filter Designer** allows users to create as many filter conditions as necessary. Each row represents one condition. The rows are arranged by order of priority, with the highest priority given to the first condition.

In this example, we will outline the settings required to display only BURRARD PACIFIC BRZE on the map. Begin with the **first row**.



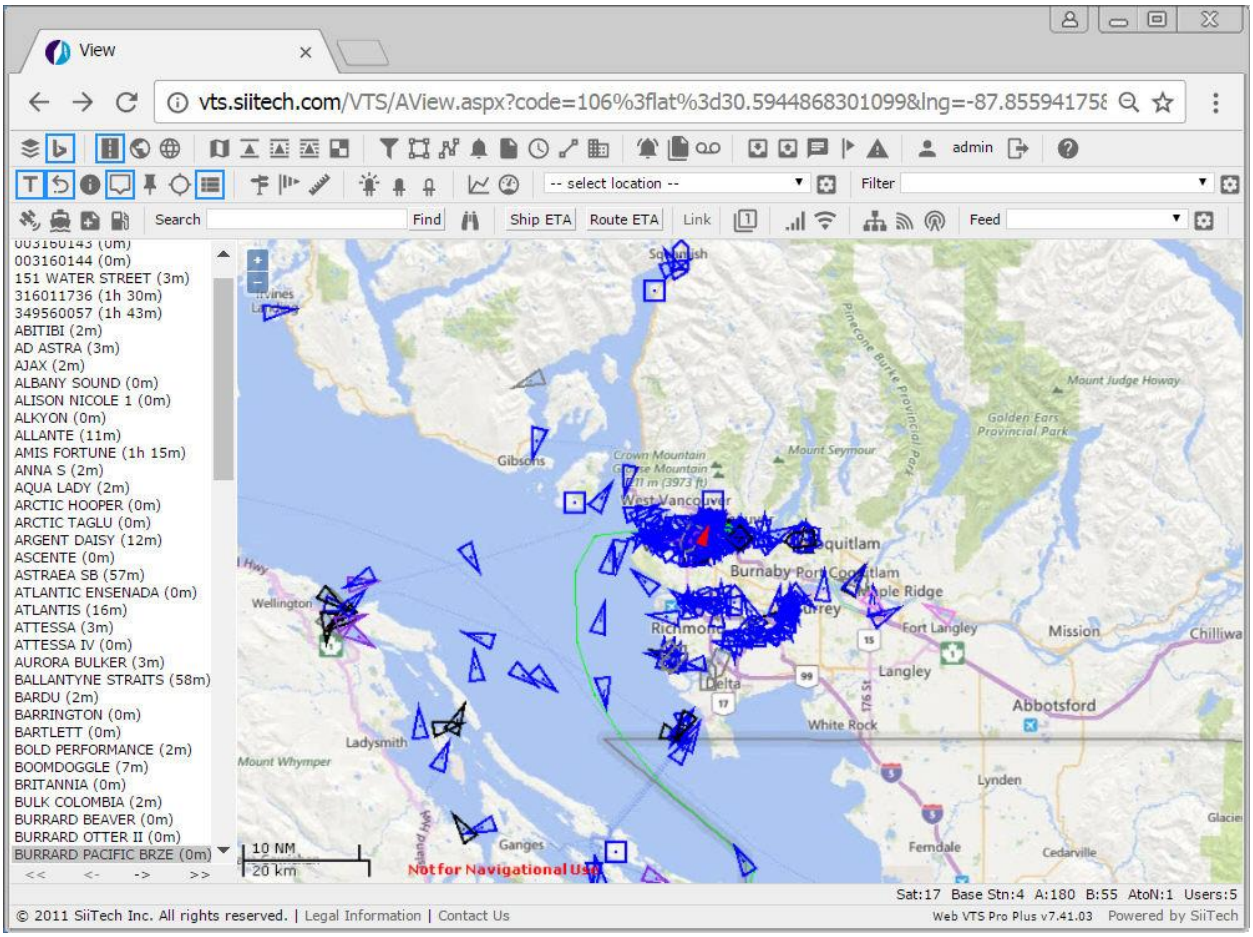
- Leave the **Enable** box checked.
- Leave the **Group** option blank.
- Leave the **MMSI** field blank.
- Type “BURRARD PACIFIC BRZE” into the **Name** field.
- Leave the **Call Sign** field blank.
- Leave “All” selected in the **Ship Type** drop-down list.
- Leave “All” selected in the **AIS Type** drop-down list.
- Leave "0" in the **Min Speed**, **Max Speed**, **Min Length** and **Max Length** fields.
- Leave the **Show Ships** box checked.
- Select “Lime” from the **Color** drop-down list.
- Leave "Transparent" in the **Border Color** drop-down list.

Use the **second row** to create a filter that will enable you to hide all other ships on the map.

- Leave the **Enable** box checked.
- Uncheck the **Show Ships** box.

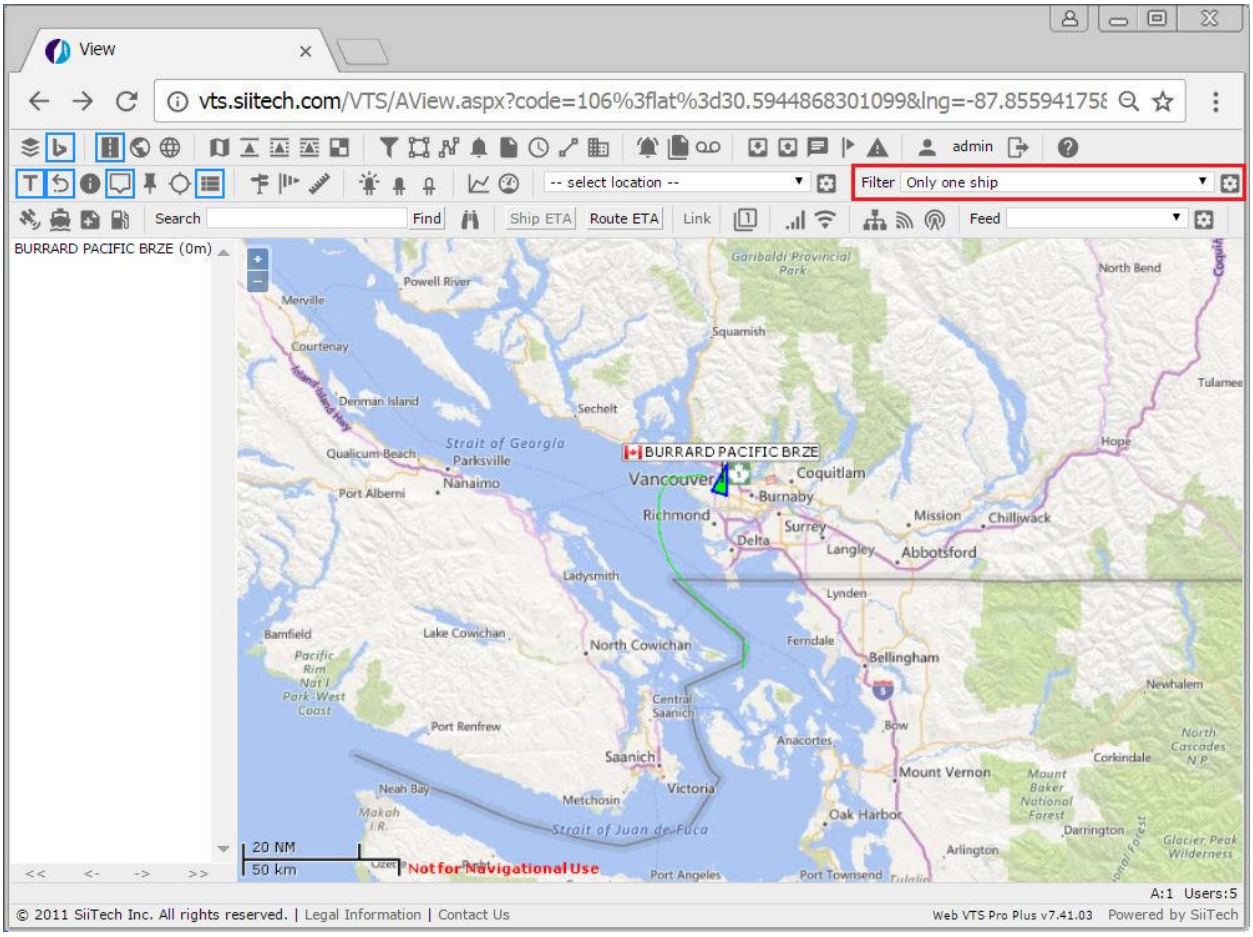
Click the **Apply** button to save the "Only one ship" filter. Click **OK** to return to the main view.

Before applying the filter



After applying the filter

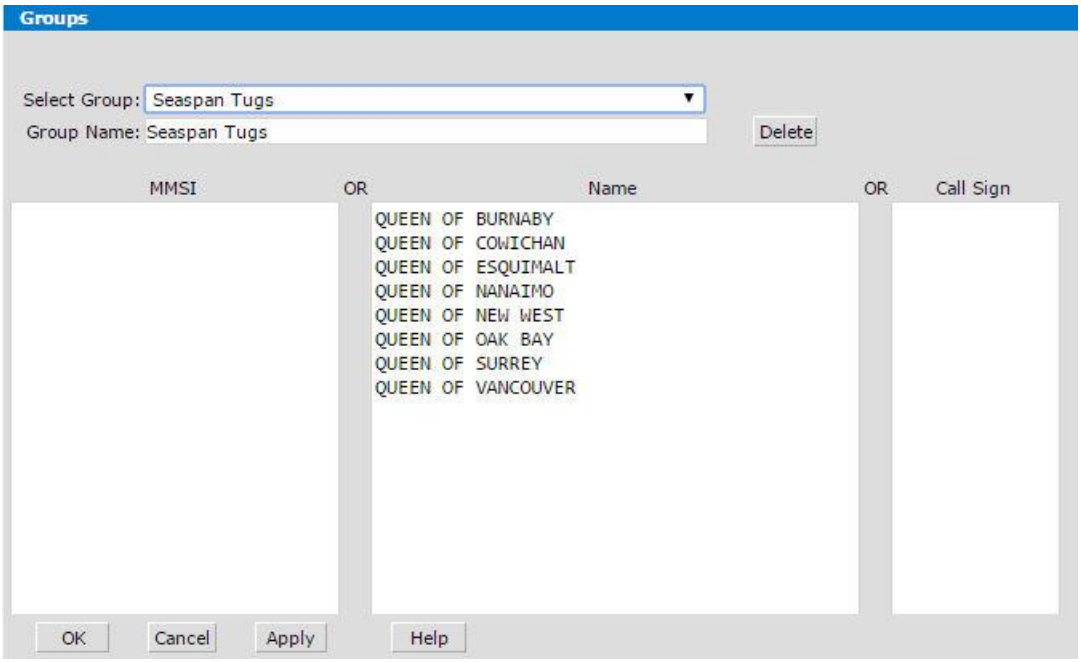
Select "Only one ship" from the **Filter** drop-down list to apply the filter. This is what the map will display as a result:



Group of Ships Filter

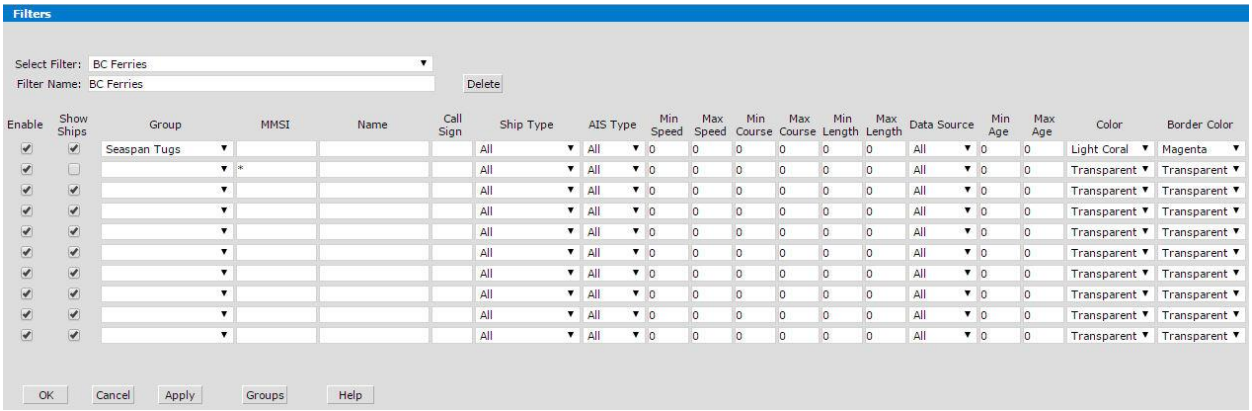
This filter will display a specific group of ships and hide all others. Before applying the filter, we need to prepare a predefined ship group. In this example, we will display "BC Ferries".

1. Create a group (Seaspan Tugs)



- Click the **Filter Designer** button to open the **Filter Designer**.
- Click the **Groups** button to open the **Group Designer**.
- Select "<New>" from the **Select Group** drop-down list.
- Type "Seaspan Tugs" into the **Group Name** field.
- Type the following ship names into the **Name** field: "QUEEN OF BURNABY", "QUEEN OF COWICHAN", "QUEEN OF ESQUIMALT", "QUEEN OF NANAIMO", "QUEEN OF NEW WEST", "QUEEN OF OAK BAY", "QUEEN OF SURREY", "QUEEN OF VANCOUVER".
  Note: Press the enter or return key after each name.
- Click **OK** to save the group and return to the **Filter Designer** window.

2. Create a filter (BC Ferries)



Use the first row to edit the parameters of the ship group you would like to DISPLAY on the map (i.e. all ships *inclusive* to the group "Seaspan Tugs").

- Select "<New>" from the **Select Filter** list.
- Type "BC Ferries" into the **Filter Name** field.
- Leave the **Enable** box checked.
- Select “BC Ferries” from the **Group** drop-down list.
- Leave the **MMSI** field blank.
- Leave the **Name** field blank.
- Leave the **Call Sign** field blank.
- Leave “All” selected in the **Ship Type** drop-down list.
- Leave “All” selected in the **AIS Type** drop-down list.
- Leave the **Show Ships** box checked.
- Select “Light Coral” from the **Color** drop-down list.
- Select "Magenta" from the **Border Color** drop-down list.

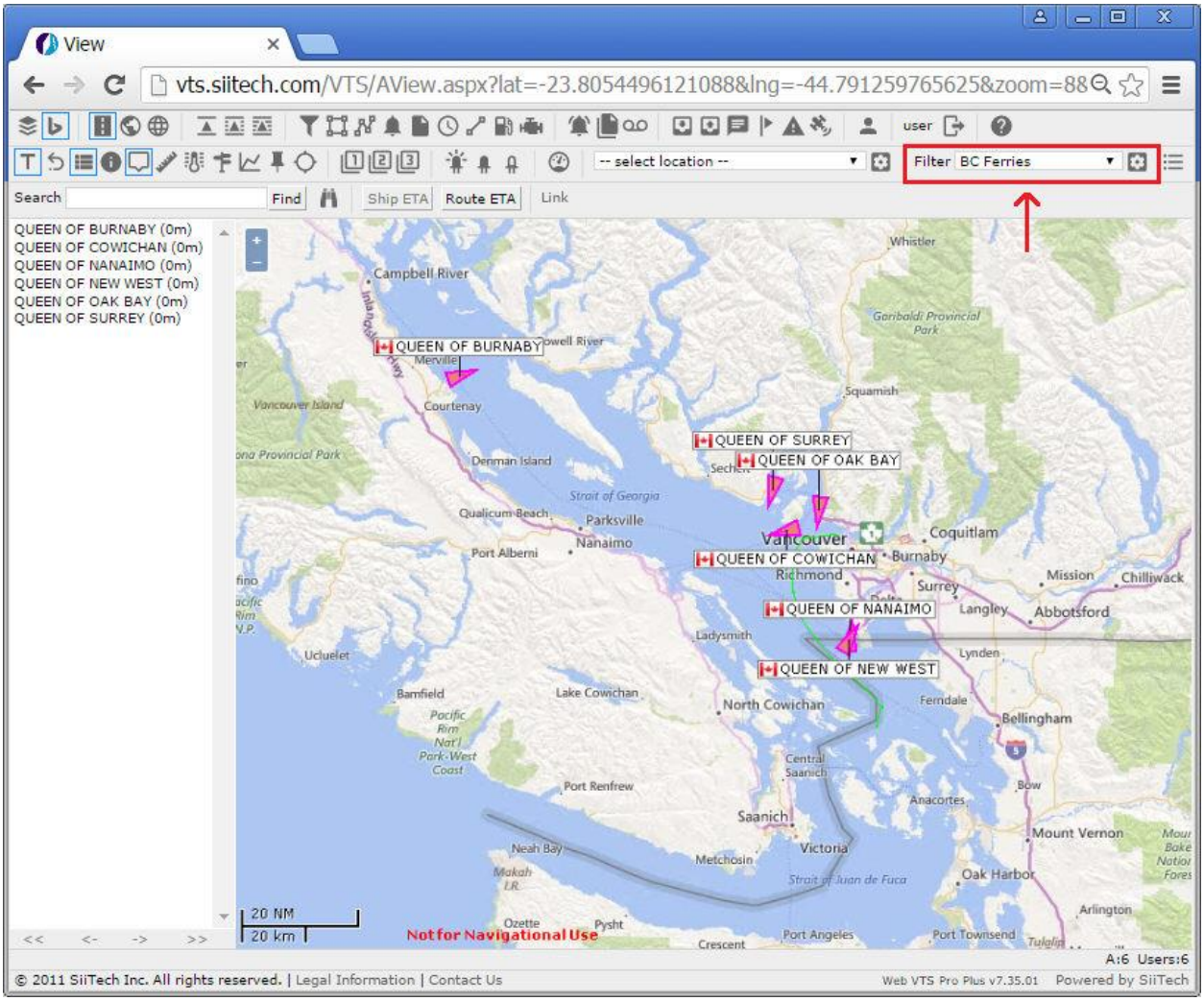
Use the second row to edit the parameters of the ship group you would like to HIDE on the map (i.e. all other ships *exclusive* to "Seaspan Tugs").

- Leave the **Enable** box checked.
- Leave the **Group** field blank.
- Type the asterisk symbol * in the **MMSI** field (*Note:* ***** **=** “all ships”).
- Leave the **Name** field blank.
- Leave the **Call Sign** field blank.
- Leave “All” selected in the **Ship Type** drop-down list.
- Leave “All” selected in the **AIS Type** drop-down list.
- Uncheck the **Show Ships** box.
- Leave “Transparent” selected in the **Color** drop-down list.
- Leave "Transparent" selected in the **Border Color** drop-down list.

3. Apply the filter

Click the **Apply** button to save the "BC Ferries" filter. Click **OK** to return to the main view.

Select "BC Ferries" from the **Filter** drop-down list. Here is a view of the map with the filter applied:


View
vts.siitech.com/VTS/AView.aspx?lat=-23.8054496121088&lng=-44.791259765625&zoom=88
user
-- select location --
Filter BC Ferries
Search
Find
Ship ETA
Route ETA
Link
QUEEN OF BURNABY (0m)
QUEEN OF COWICHAN (0m)
QUEEN OF NANAIMO (0m)
QUEEN OF NEW WEST (0m)
QUEEN OF OAK BAY (0m)
QUEEN OF SURREY (0m)
QUEEN OF BURNABY
QUEEN OF SURREY
QUEEN OF OAK BAY
QUEEN OF COWICHAN
QUEEN OF NANAIMO
QUEEN OF NEW WEST
Campbell River
Courtenay
Comox
Denman Island
Qualicum Beach
Parksville
Nanaimo
Port Alberni
Ucluelet
Bamfield
Lake Cowichan
Vancouver
Richmond
Burnaby
Coquitlam
Surrey
Langley
Abbotsford
Mission
Chilliwack
Ladysmith
North Cowichan
Ferndale
Bellingham
Lynden
Central Saanich
Saanich
Victoria
Metchosin
Port Renfrew
Neah Bay
Oak Harbor
Anacortes
Mount Vernon
Arlington
Port Angeles
Port Townsend
Crescent
Ozette
Pysht
Whistler
Squamish
Garibaldi Provincial Park
Strait of Georgia
Strait of Juan de Fuca
Pacific Rim Nat'l Park West Coast
20 NM
20 km
Not for Navigational Use
A:6 Users:6
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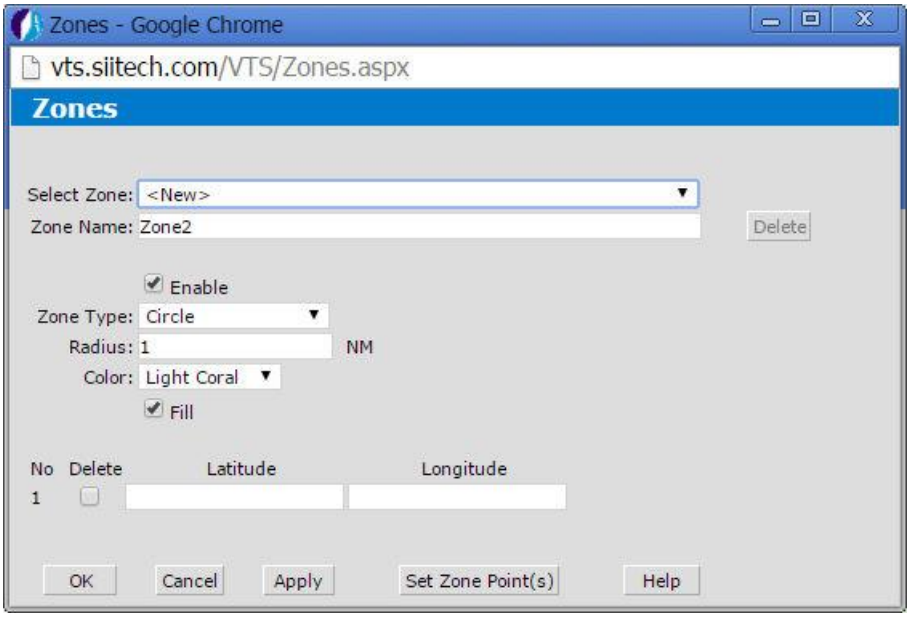
Zones

Zone Designer

The **Zone Designer** allows users to draw any precise zone on a map or chart. It is a powerful tool for the visualization of a desired monitoring zone. It can also provide a basis for reports.

The **Zone Designer** can be used to create two types of zones (**Circle** and **Polygon**) and two types of lines (**Line L** and **Line R**).

Click the **Zone Designer** button in the toolbar to open the **Zone Designer** window.



Select Zone. Select an existing zone or create a new zone from the drop-down list.

Zone Name. Use this box to display and edit the zone name (by default the program uses "ZoneN" for every new zone, where N is the first available number).

Delete. Delete any existing zone.

Enable. Check this box to enable a zone.

Zone Type. Select a type of zone (Circle/Polygon) or a type of line (Line L/Line R) from the drop-down list.

Radius. Enter the radius length in Nautical Miles (NM). *Note*: this option is only available for the circle zone.

Color. Select a predefined color from the drop-down list.

Fill. Check this box to shade the zone's area on the map.

Latitude and Longitude. Enter the zone's coordinates. For circle zones, this is the center of the circle. Tip: you may also use the **Add Points** button.

Delete. Check this box to select the latitude and longitude pair(s) you wish to remove. Click the **Apply** button to delete.

Set Zone Point(s). Create zone points by clicking on the map.

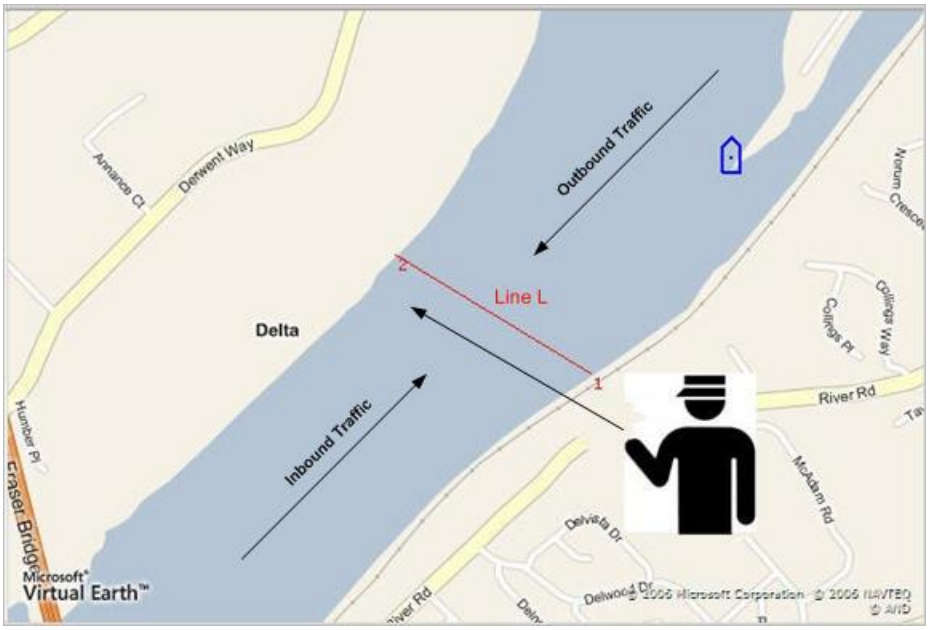
OK. Save changes and return to the main view.

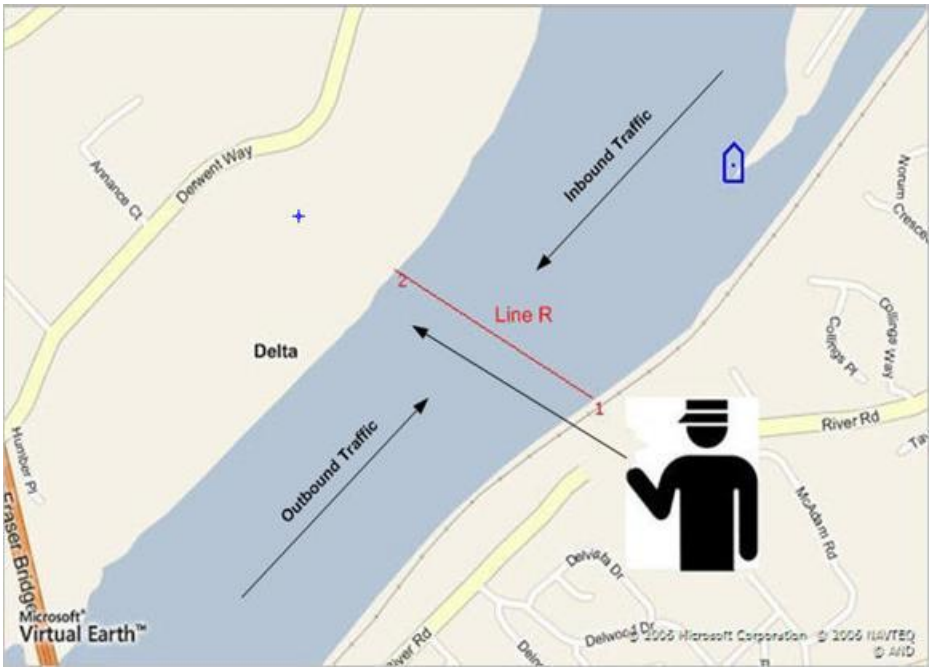
Cancel. Cancel all changes and return to the main view.

Apply. Save changes and keep the **Zone Designer** window open.

The **Zone Designer** allows users to create two types of lines, "Line L" and "Line R", to distinguish outbound traffic from inbound traffic.

- If you draw "Line L", then all inbound traffic will be from your left hand side.
- If you draw "Line R" then all inbound traffic will be from your right hand side.
- *Note*: To choose the right type of line, imagine that you are looking along the line from the beginning of the line to the endpoint. The beginning of the line is your click on the chart and the endpoint is your second click. Refer to the pictures below.

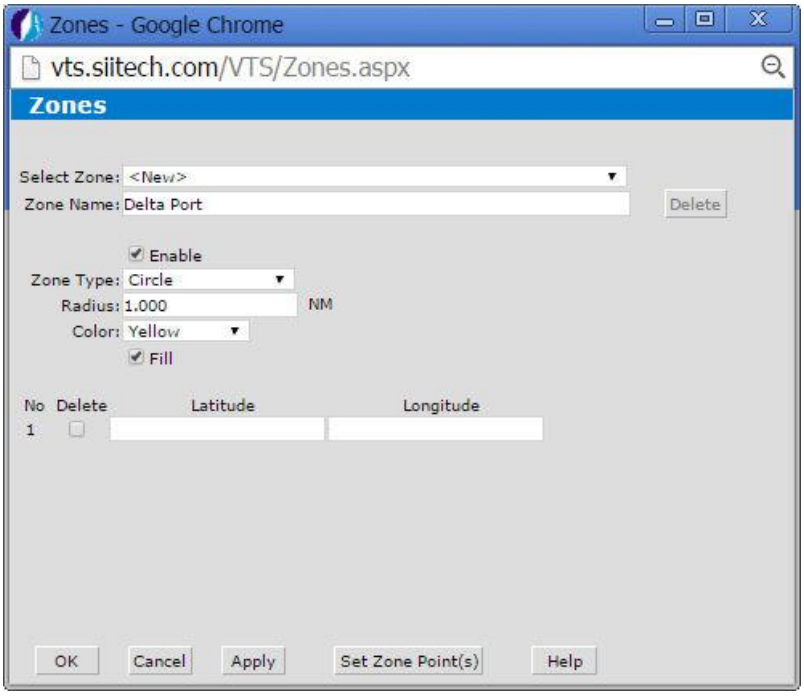




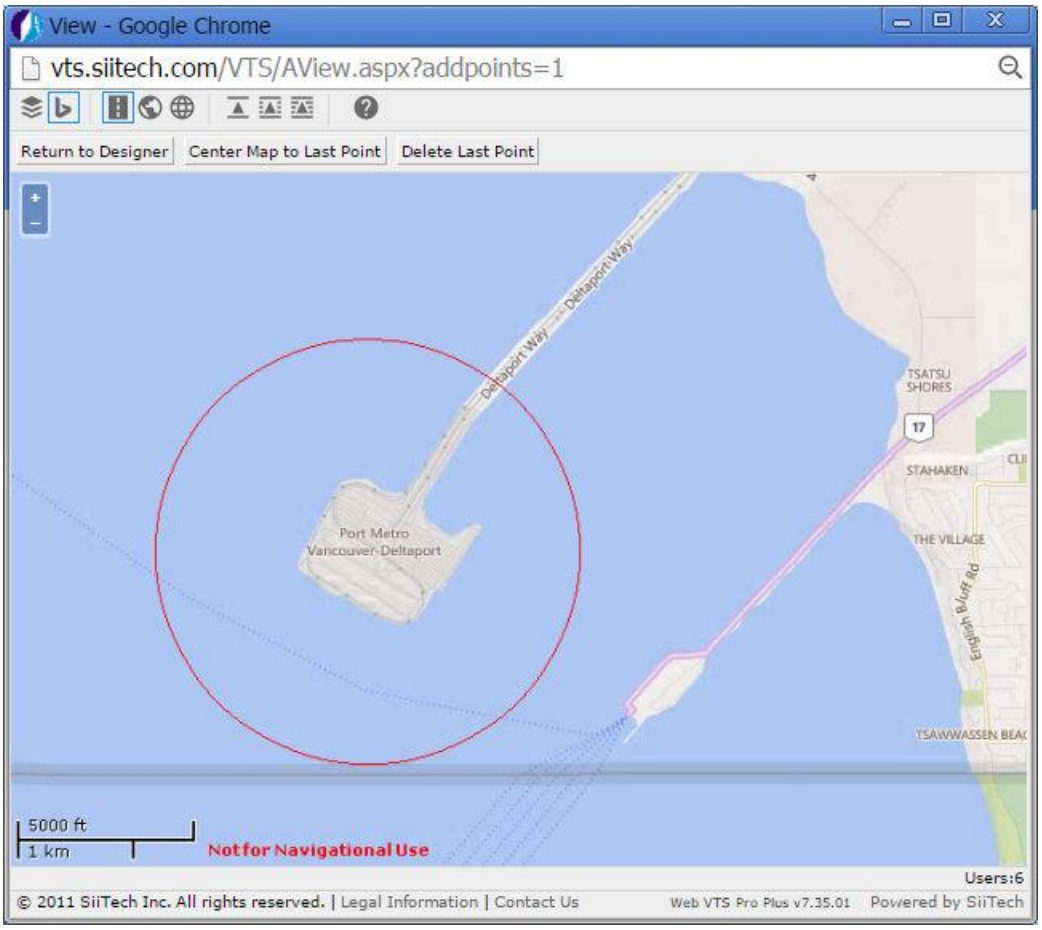
Circle zone

Creating a circle zone:

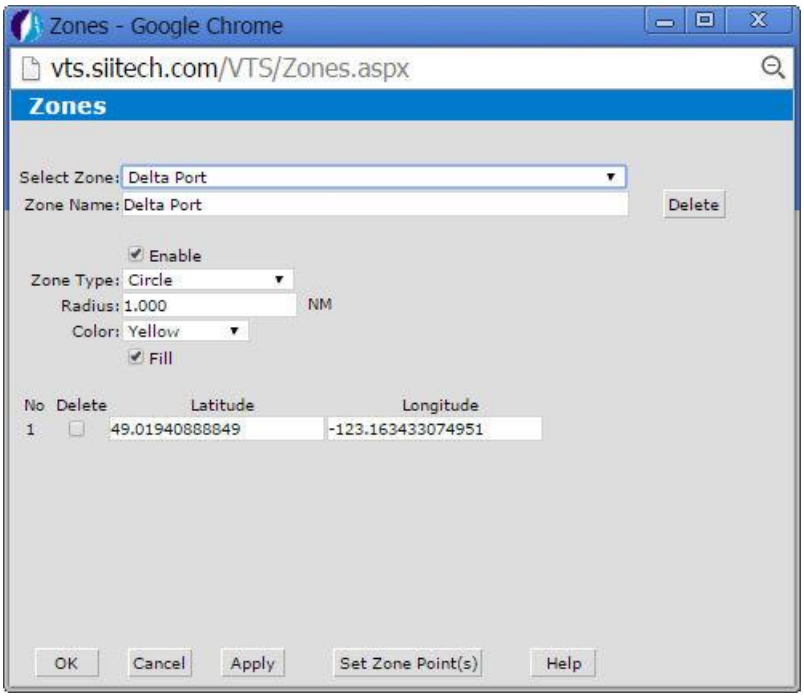
- Click the **Zone Designer** button to open the **Zone Designer**.
- Select "<New>" from the **Select Zone** drop-down list.
- Type "Delta Port" in the **Zone Name** field.
- Leave the **Enable** box checked.
- Select “Circle” from the **Zone Type** drop-down list.
- Leave the default numerical value in the **Radius** field.
- Select “Yellow” from the **Color** drop-down list.
- Leave the **Fill** box checked.



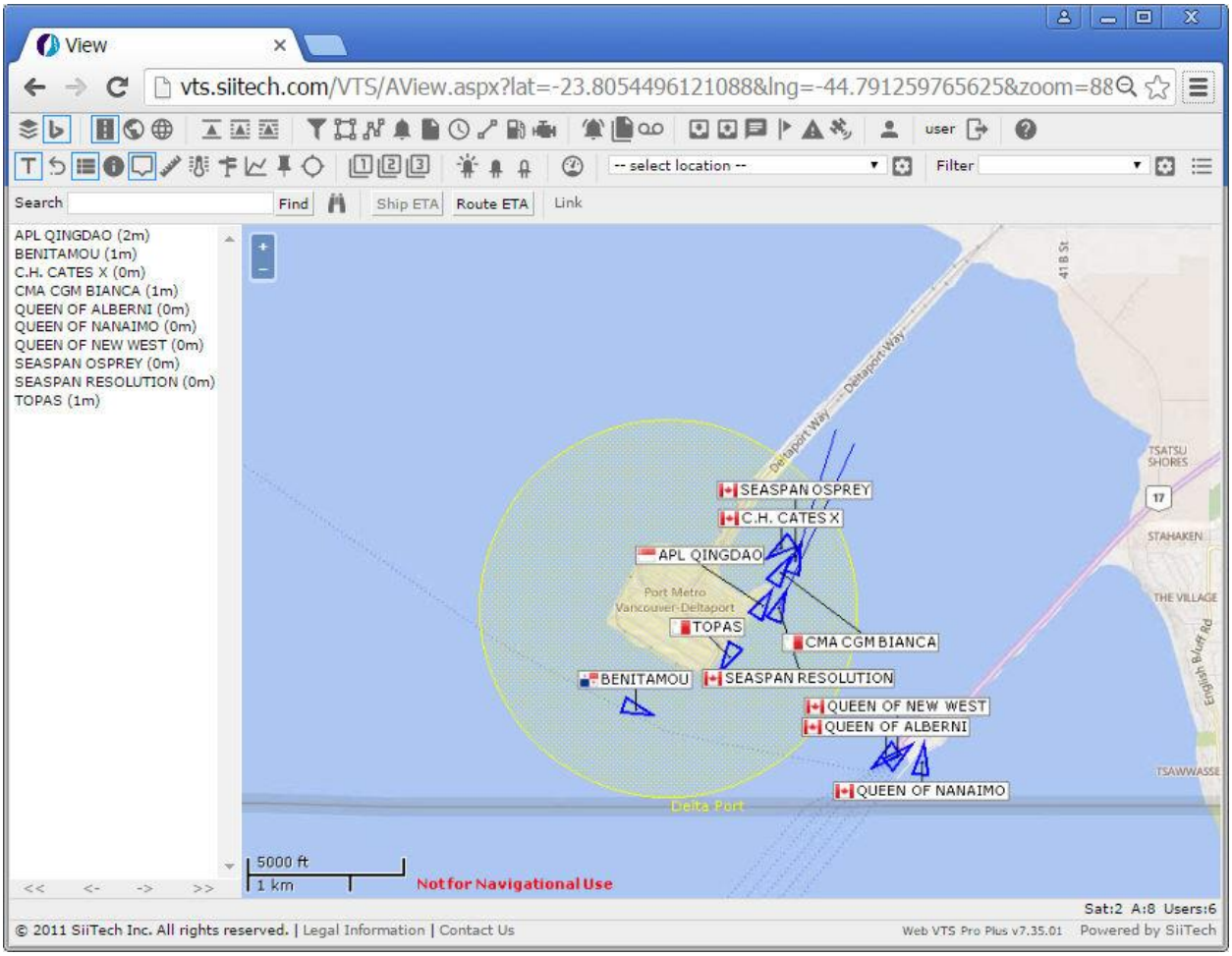
Click the **Set Zone Point(s)** button to select the center of your circle. You will be redirected to the map view. Click on your desired location to establish your circle zone's center. Click the **Return to Designer** button to go back to the **Zone Designer** window. Tip: Zooming in on the map enlarges the circle for better precision.



The **Zone Designer** will now display the exact latitude and longitude coordinates of your circle zone's center.



Click the **Apply** button to save zone changes. Click **OK** to return to the main view. You should now see a circle around your selected zone on the map.


View
vts.siitech.com/VTS/AView.aspx?lat=-23.8054496121088&lng=-44.791259765625&zoom=88
user
-- select location --
Filter
Search
Find
Ship ETA
Route ETA
Link
APL QINGDAO (2m)
BENITAMOU (1m)
C.H. CATES X (0m)
CMA CGM BIANCA (1m)
QUEEN OF ALBERNI (0m)
QUEEN OF NANAIMO (0m)
QUEEN OF NEW WEST (0m)
SEASPAN OSPREY (0m)
SEASPAN RESOLUTION (0m)
TOPAS (1m)
SEASPAN OSPREY
C.H. CATES X
APL QINGDAO
TOPAS
CMA CGM BIANCA
BENITAMOU
SEASPAN RESOLUTION
QUEEN OF NEW WEST
QUEEN OF ALBERNI
QUEEN OF NANAIMO
Deltaport Way
Port Metro Vancouver-Deltaport
Delta Port
TSATSU SHORES
STAHAKEN
THE VILLAGE
TSAWWASSE
5000 ft
1 km
Not for Navigational Use
Sat:2 A:8 Users:6
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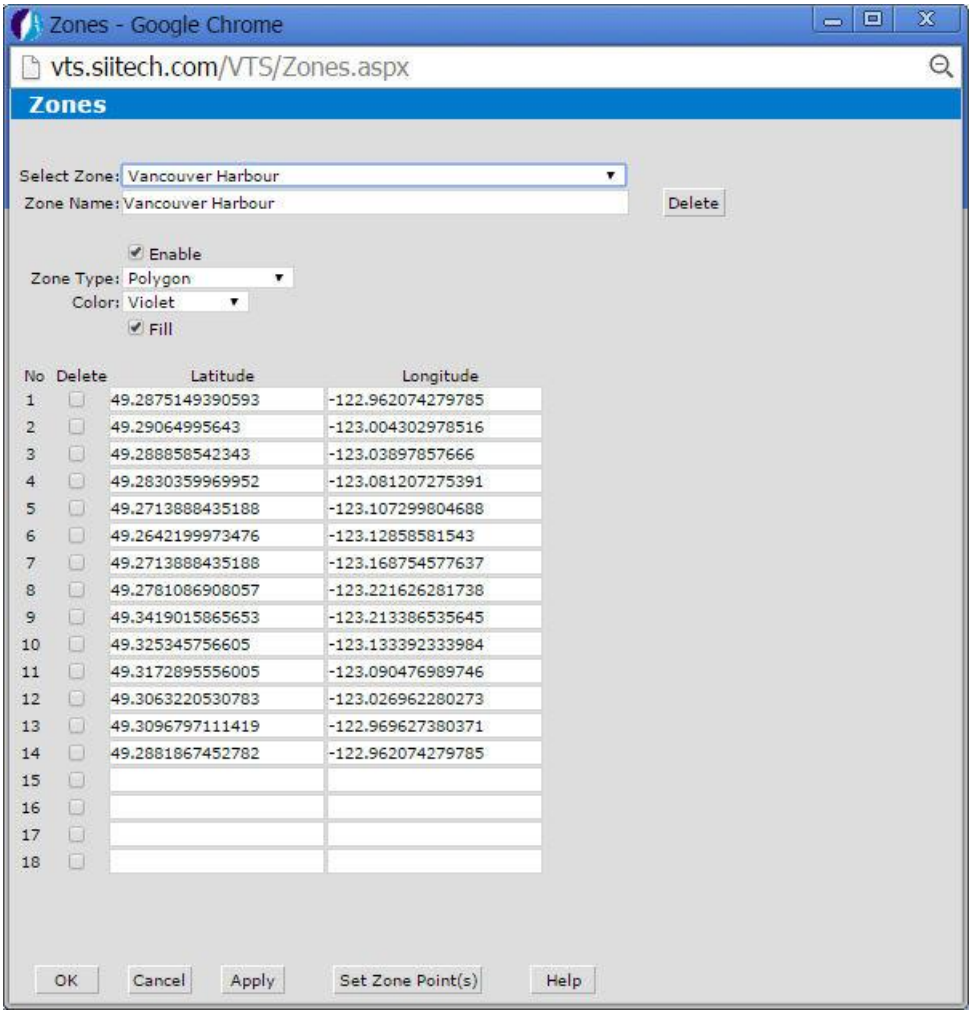
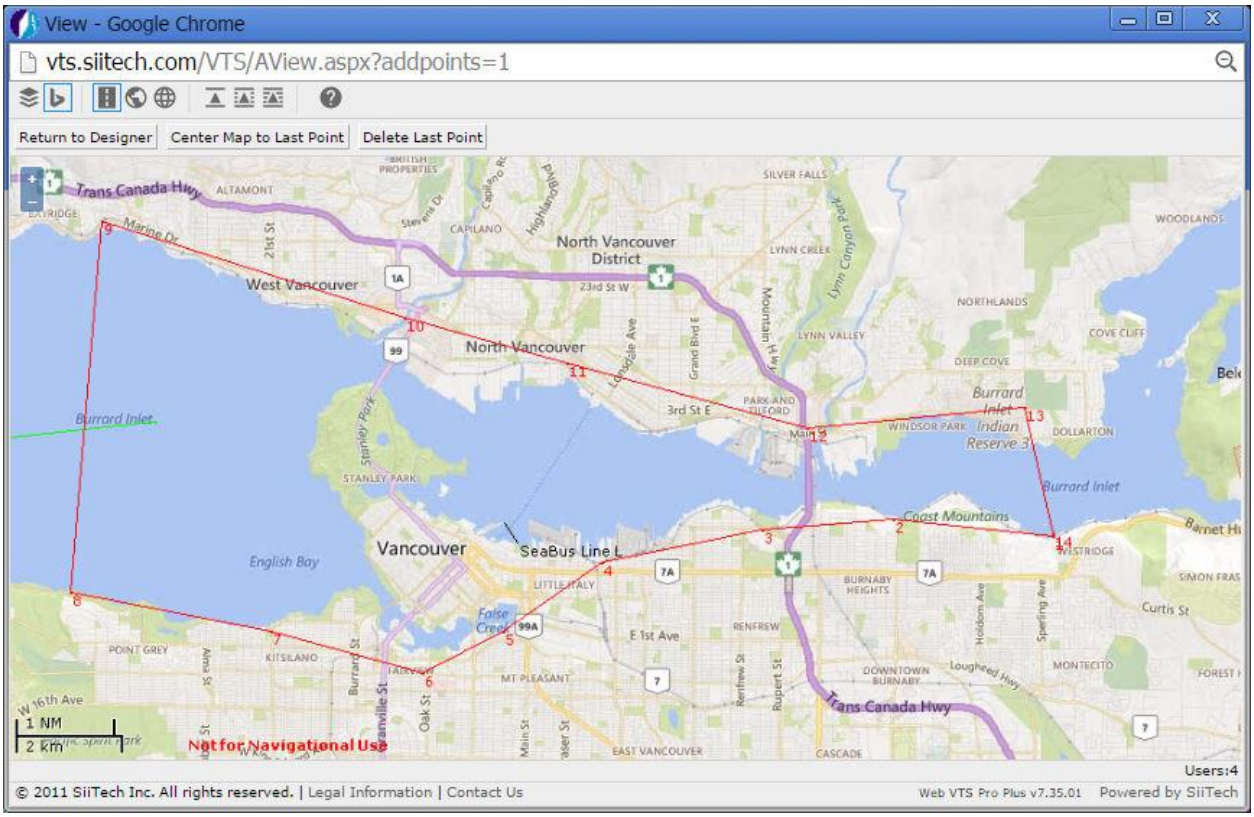
Polygon zone

Creating a polygon zone



- Click the **Zone Designer** button to open the **Zone Designer** window.
- Select "<New>" from the **Select Zone** drop-down list.
- Type "Vancouver Harbour" into the **Zone Name** field.
- Leave the **Enable** box checked.
- Select “Polygon” from the **Zone Type** drop-down list.
- Select “Violet” from the **Color** drop-down list.
- Leave the **Fill** box checked.
- Click the **Set Zone Point(s)** button to add polygon points. You will be redirected to the map view.

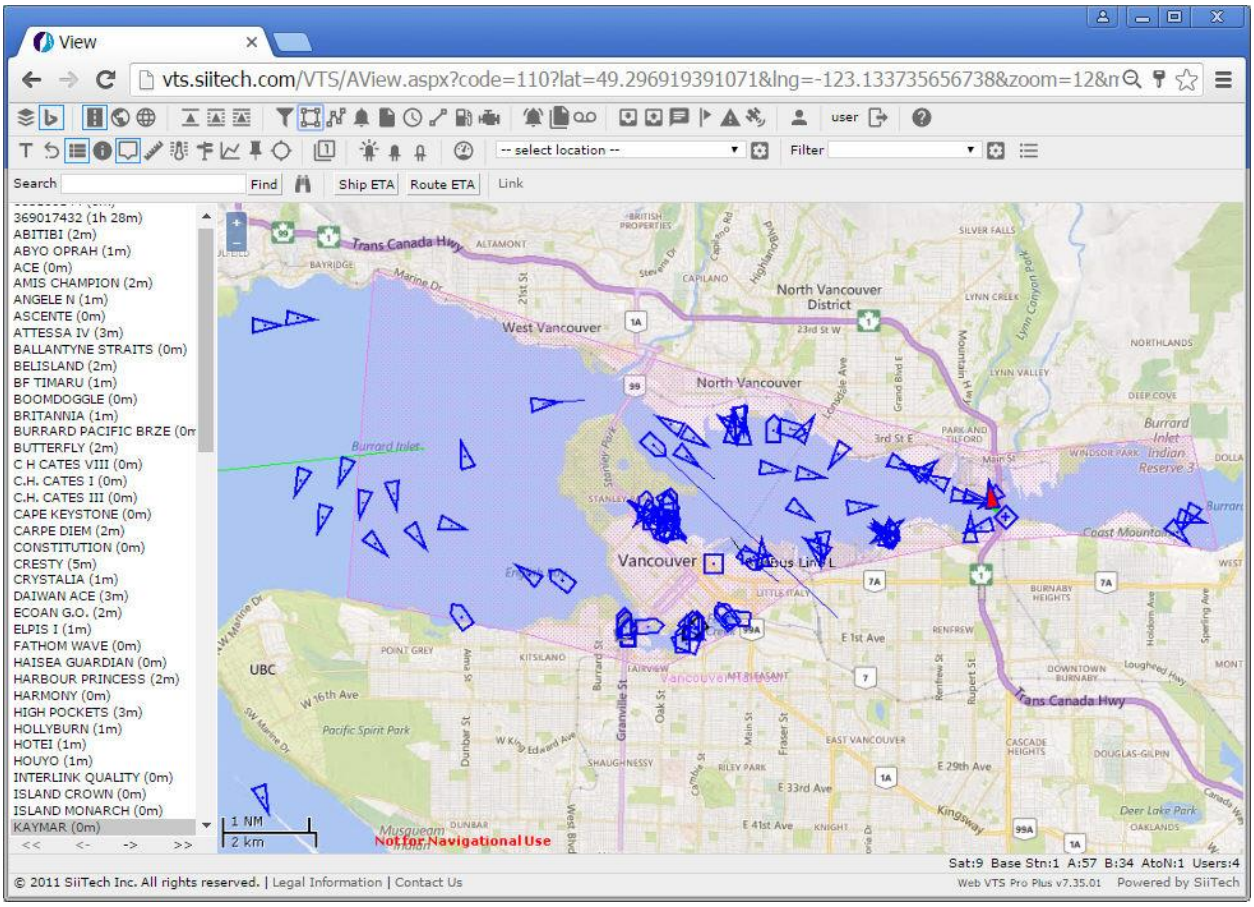


- Connect horizontal line segments together by clicking points around the desired area's perimeter in a clockwise direction. Follow our example shown in the image above to contain a similar area on the map within a series of irregular line segments (forming a polygon).
- Do not worry if your shape does not look identical to our example. It is OK to have the polygon cover parts of land.
- If you wish to redo a line segment, click the **Delete Last Point** button and try again.

Once you are satisfied with your shape, click the **Return to Designer** button to return to the **Zone Designer**. A list of latitude and longitude coordinates should now appear in the **Zone Designer** window.

Click **OK** to save changes and return to the main view.

Here is the final result:


View
vts.siitech.com/VTS/AView.aspx?code=110?lat=49.296919391071&lng=-123.133735656738&zoom=12&n
user
-- select location --
Filter
Search
Find
Ship ETA
Route ETA
Link
369017432 (1h 28m)
ABITIBI (2m)
ABYO OPRAH (1m)
ACE (0m)
AMIS CHAMPION (2m)
ANGELE N (1m)
ASCENTE (0m)
ATTESSA IV (3m)
BALLANTYNE STRAITS (0m)
BELISLAND (2m)
BF TIMARU (1m)
BOOMDOGGLE (0m)
BRITANNIA (1m)
BURRARD PACIFIC BRZE (0m
BUTTERFLY (2m)
C H CATES VIII (0m)
C.H. CATES I (0m)
C.H. CATES III (0m)
CAPE KEYSTONE (0m)
CARPE DIEM (2m)
CONSTITUTION (0m)
CRESTY (5m)
CRYSTALIA (1m)
DAIWAN ACE (3m)
ECOAN G.O. (2m)
ELPIS I (1m)
FATHOM WAVE (0m)
HAISEA GUARDIAN (0m)
HARBOUR PRINCESS (2m)
HARMONY (0m)
HIGH POCKETS (3m)
HOLLYBURN (1m)
HOTEI (1m)
HOUYO (1m)
INTERLINK QUALITY (0m)
ISLAND CROWN (0m)
ISLAND MONARCH (0m)
KAYMAR (0m)
<< <- -> >>
Trans Canada Hwy
West Vancouver
North Vancouver
North Vancouver District
Burrard Inlet
Vancouver
UBC
Pacific Spirit Park
Trans Canada Hwy
Kingsway
1 NM
2 km
Not for Navigational Use
Sat:9 Base Stn:1 A:57 B:34 AtoN:1 Users:4
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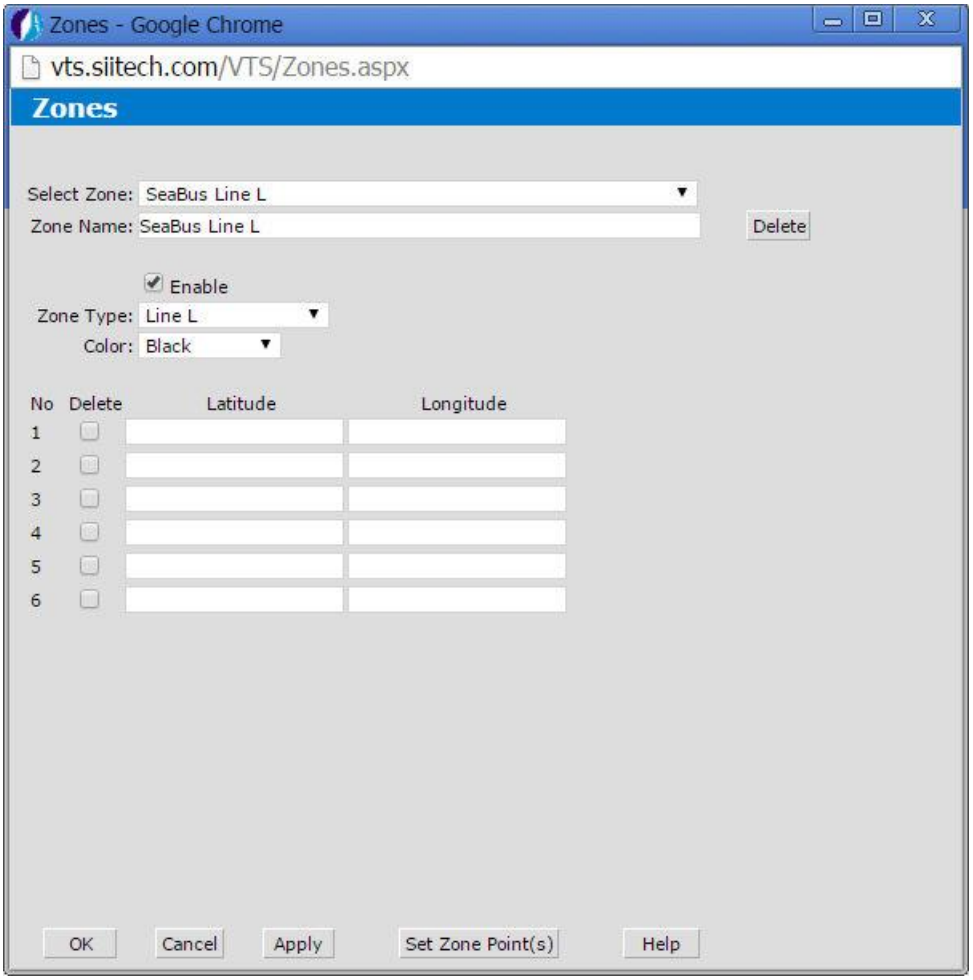
Line

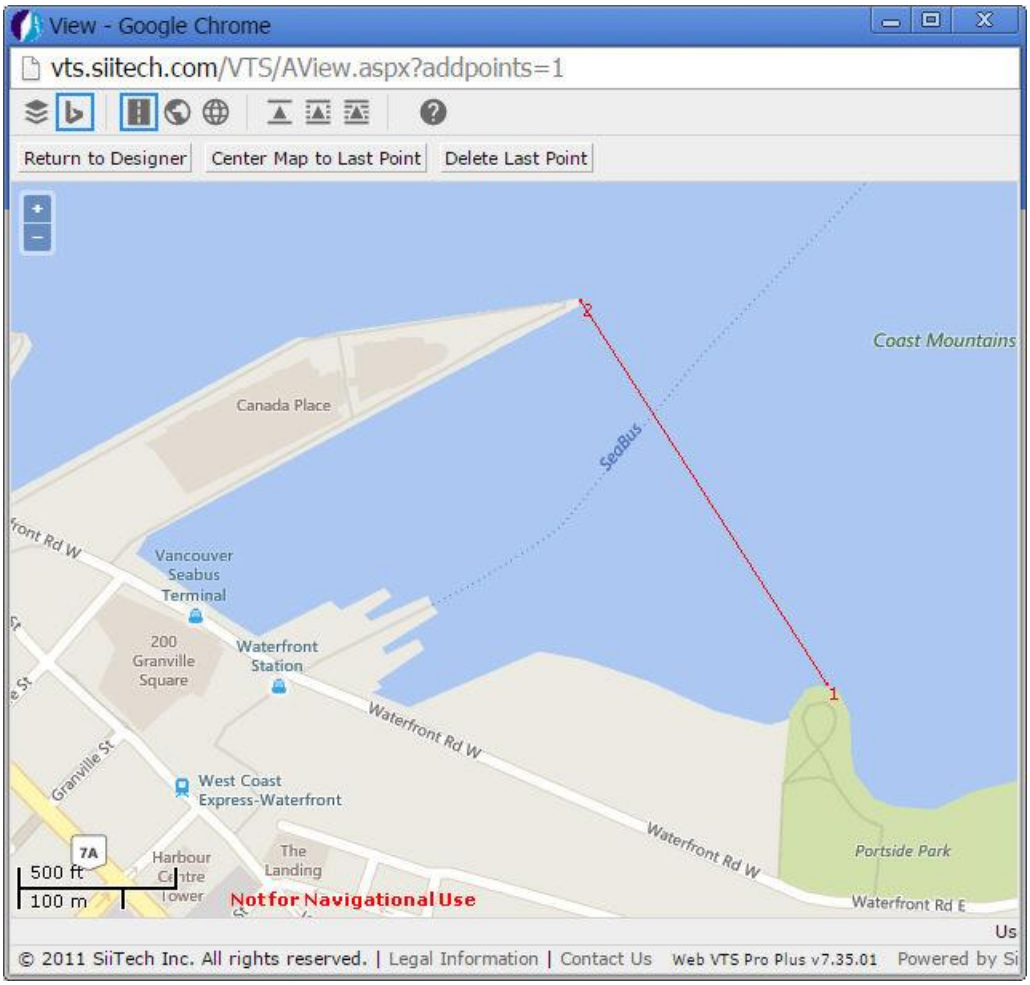
Creating a line



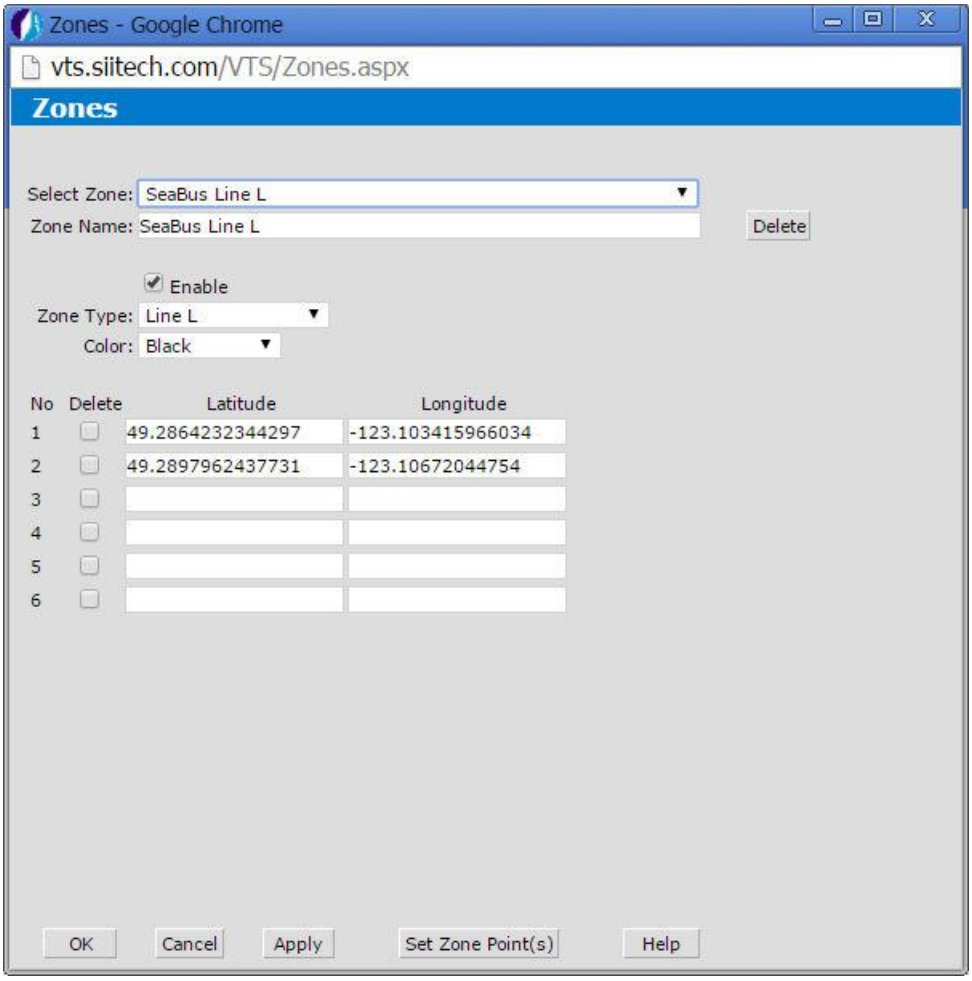
- Click the **Zone Designer** button to open the **Zone Designer** window.
- Select "<New>" from the **Select Zone** drop-down list.
- Type "SeaBus Line" into the **Zone Name** field.
- Leave the **Enable** box checked.
- Select “Line L” from the **Zone Type** drop-down list.
- Select “Black” from the **Color** drop-down list.

Click the **Set Zone Point(s)** button to add line points. You will be redirected to the map view.

To draw the line, click once on the map to set **Point 1**, and click a second time to set **Point 2**. A red line will automatically appear between the two points you have clicked.

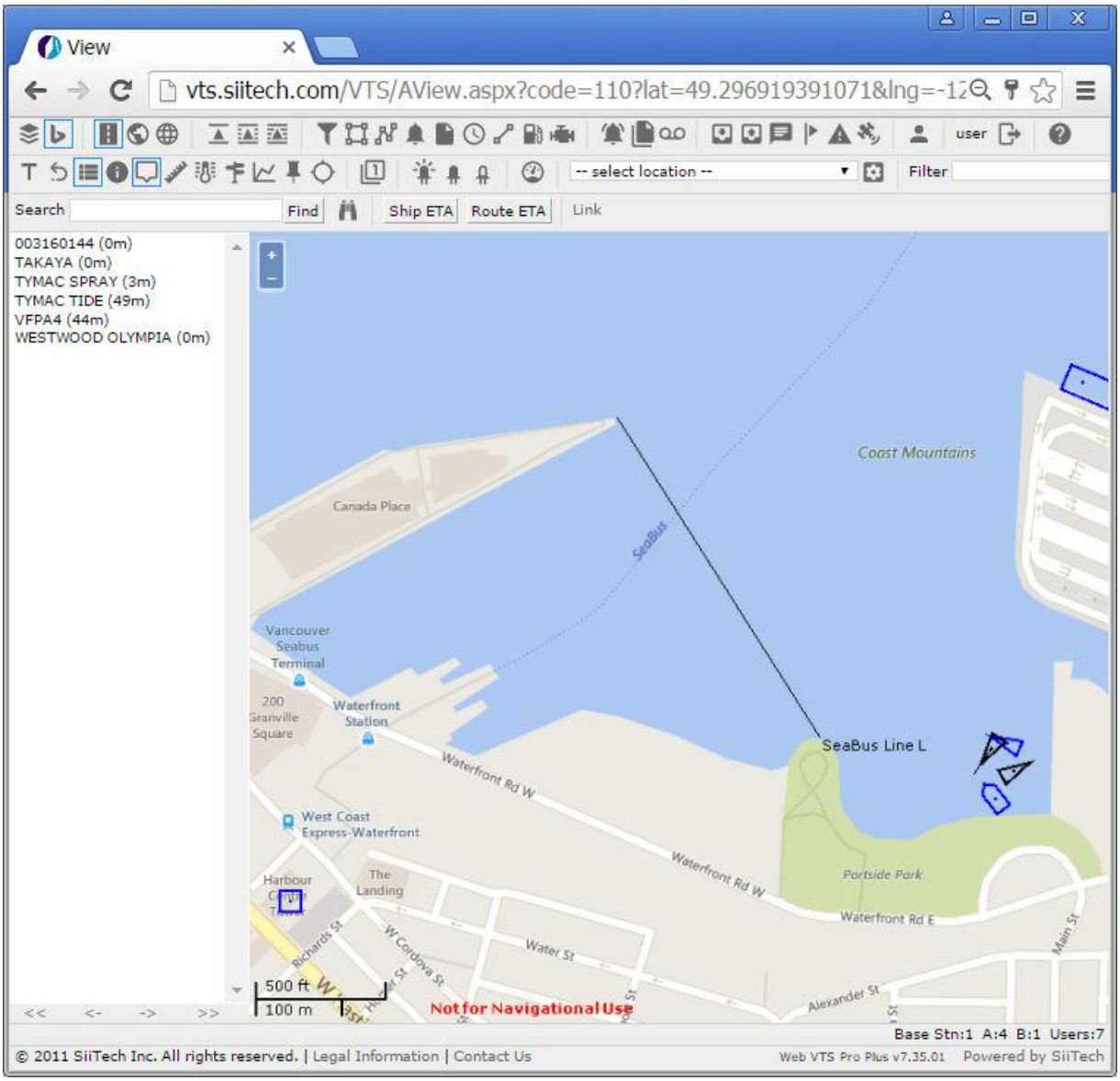


Click the **Return to Zone Designer** button to go back to the **Zone Designer**. You will see the **Latitude** and **Longitude** fields filled with the coordinates of the two points clicked on the map.



Click the **Apply** button to save changes and click **OK** to return to the main view.

You should now see a line labelled "Seabus Line L" appear on your map, similar to the image below.


View
vts.siitech.com/VTS/AView.aspx?code=110?lat=49.296919391071&lng=-12
user
-- select location --
Filter
Search
Find
Ship ETA
Route ETA
Link
003160144 (0m)
TAKAYA (0m)
TYMAC SPRAY (3m)
TYMAC TIDE (49m)
VFPA4 (44m)
WESTWOOD OLYMPIA (0m)
Coast Mountains
Canada Place
SeaBus
Vancouver Seabus Terminal
200 Granville Square
Waterfront Station
SeaBus Line L
Waterfront Rd W
West Coast Express-Waterfront
Harbour Centre
The Landing
Portside Park
Waterfront Rd E
Richards St
W Cordova St
Water St
Alexander St
Main St
500 ft
100 m
Not for Navigational Use
Base Stn:1 A:4 B:1 Users:7
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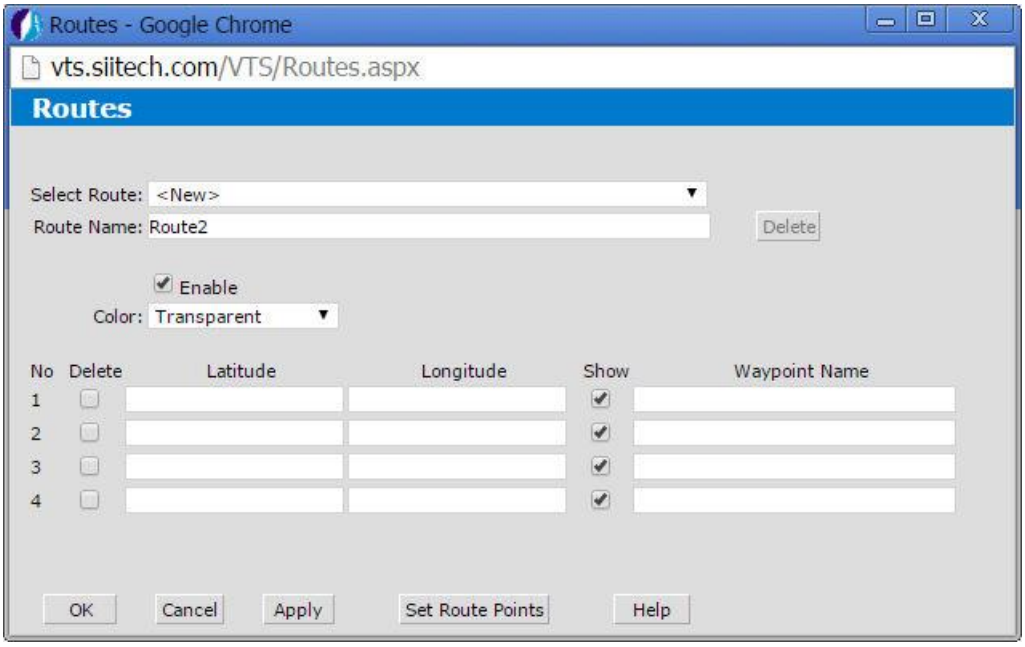
Routes and ETA

Route Designer

The **Route Designer** is a designed to provide the user with a tool for obtaining an ETA (estimated time of arrival) to the desired waypoint by allowing the user to build a route.

Click the **Route Designer** button in the toolbar to open the **Route Designer** window.



Select Route. Select an existing route or create a new route.

Route Name. Display and edit a route name (by default the program uses "RouteX" for every new route created, where X is the first available number).

Delete. Delete any selected route.

Enable. Check the box to enable the route.

Color. Select the desired color of the route line from the drop-down menu.

Latitude and Longitude. Enter the route's coordinates. Tip: click Set Route Points to select the coordinates on a map. Click Return to Designer to go back to the Route Designer.

Delete. Check this box to select the latitude and longitude pair(s) you wish to remove. Click Apply to delete.

Waypoint. Type the Waypoint's name to display it on the chart.

Show. Uncheck this box to eliminate a waypoint from the chart/map and ETA calculation.

OK. Save changes and return to the main view.

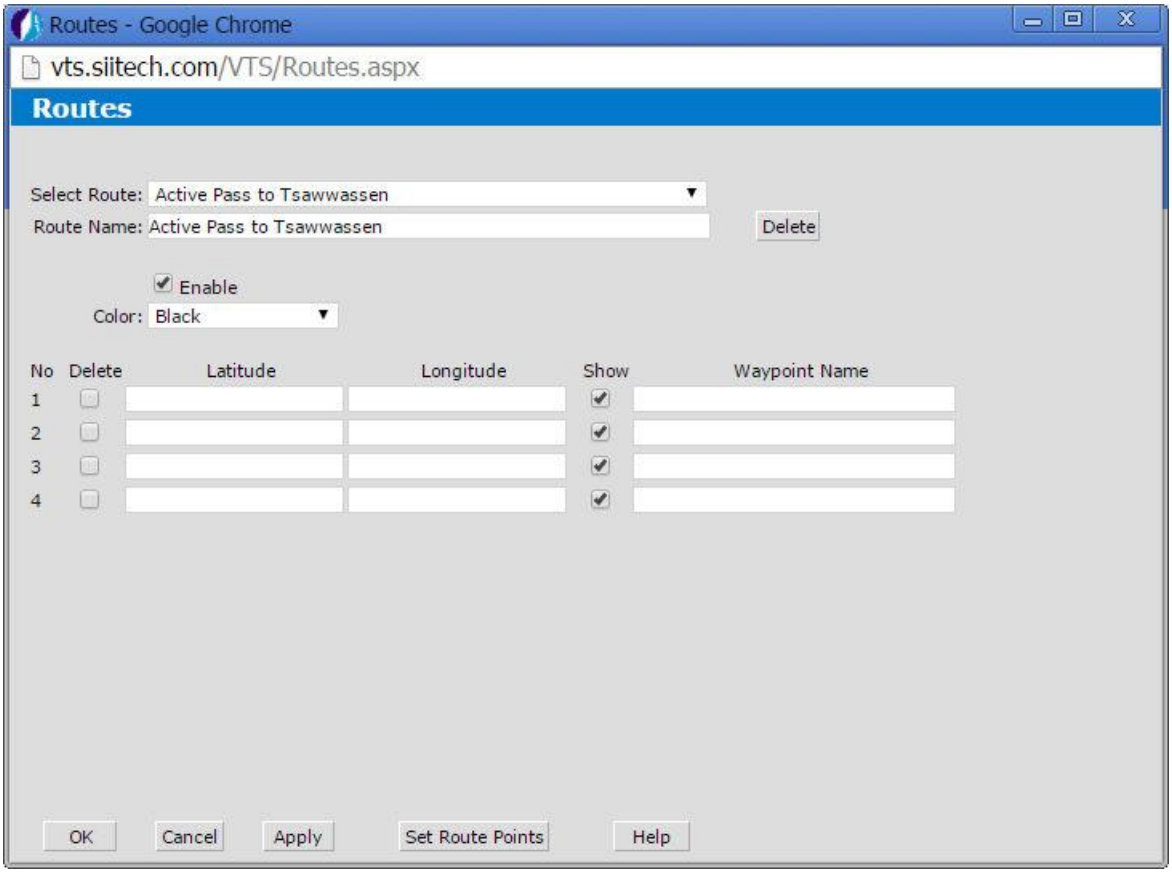
Cancel. Cancel all changes and return to the main view.

Apply. Save changes and keep the Route Designer window open.

Help. Open the Web VTS User's Guide.

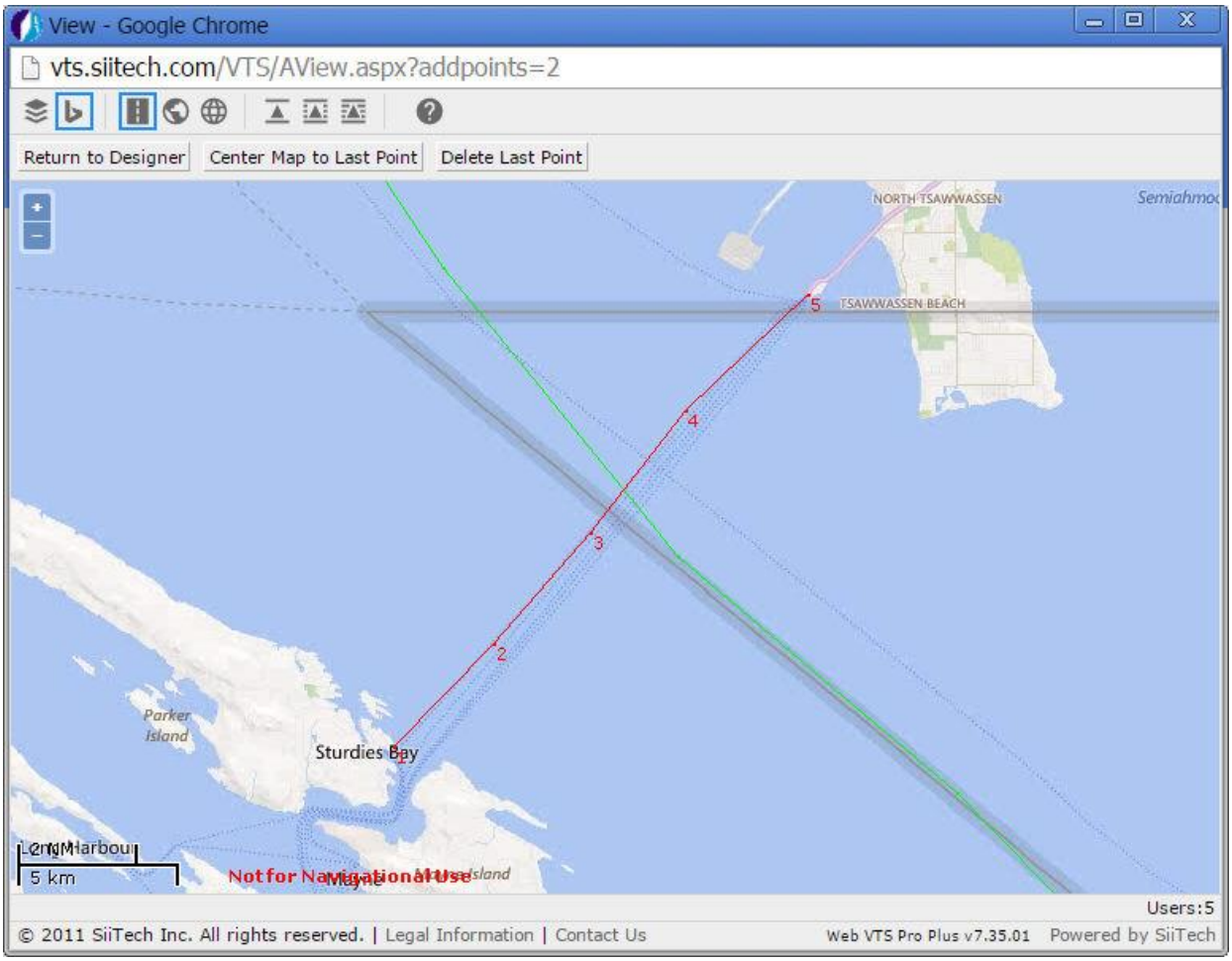
Route and ETA

Create a route and use this route to obtain an ETA for your point of interest:



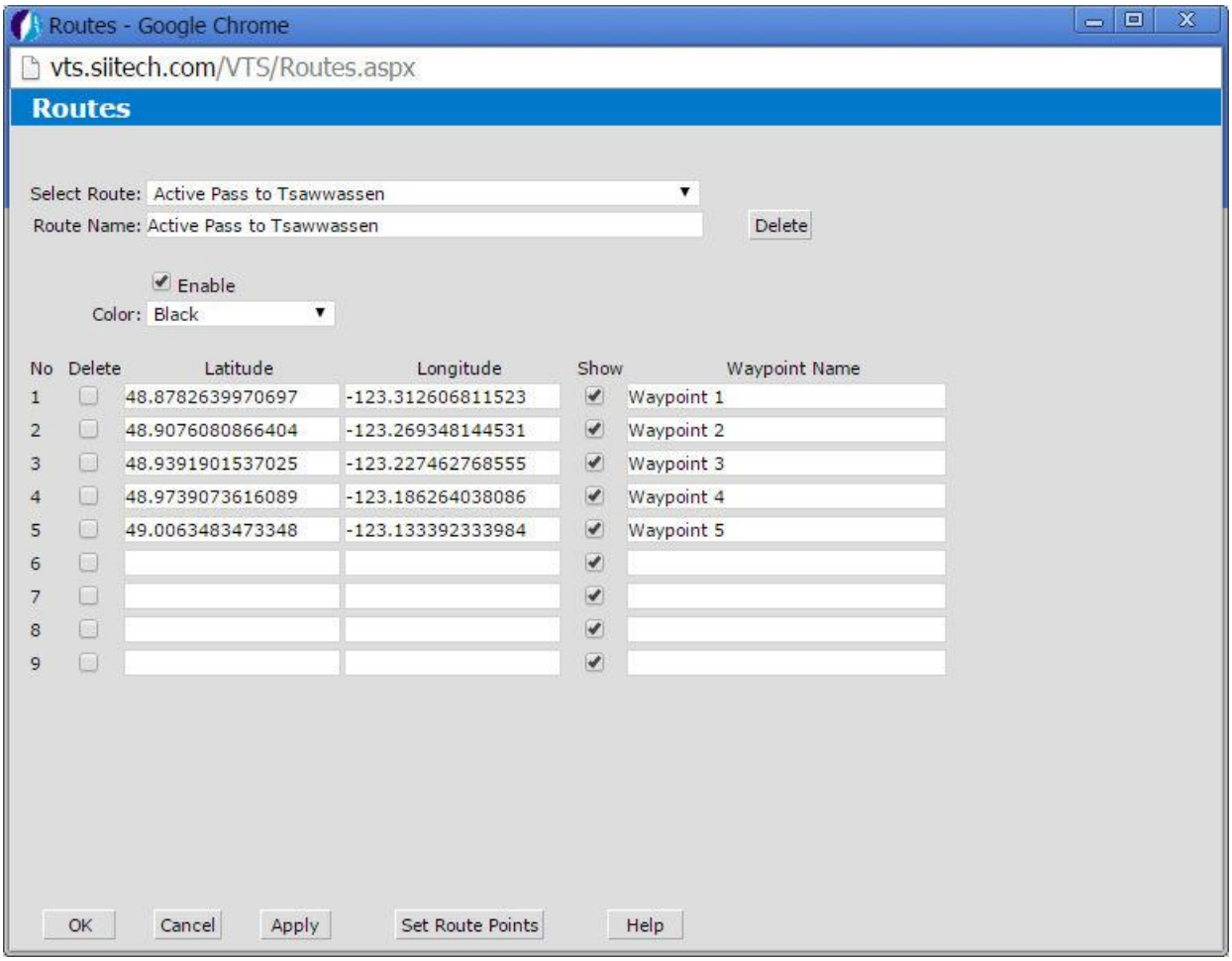
- Click the **Route Designer** button to open the **Route Designer** window.
- Select "<New>" from the **Select Route** drop-down list.
- Type “Active Pass to Tsawwassen” in the **Route** field.
- Leave the **Enable** box checked.
- Select "Black" from the **Color** drop-down list.

To add waypoints, click the **Set Route Points** button. You will be redirected to the map view.



Draw the route by clicking consecutively in the direction you wish to go, with evenly spaced intervals between every click. A new number will appear beside each point on the map that you have just clicked.

Click the **Return to Designer** button to go back to the **Route Designer** window.

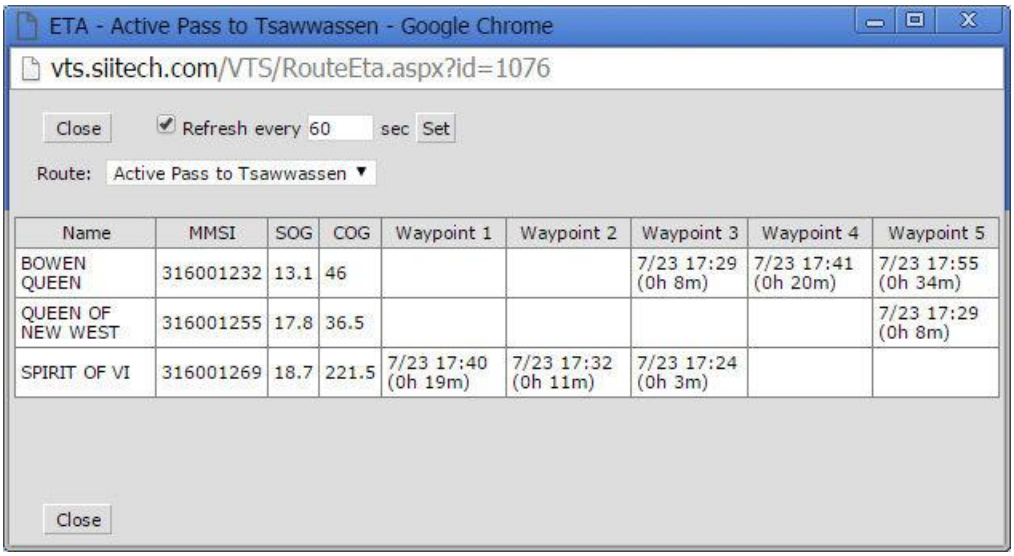


Type "Waypoint 1-5" in the **Waypoint Name** field(s).

Note: Clearing any **Show** checkbox will omit this unchecked waypoint from the map view.

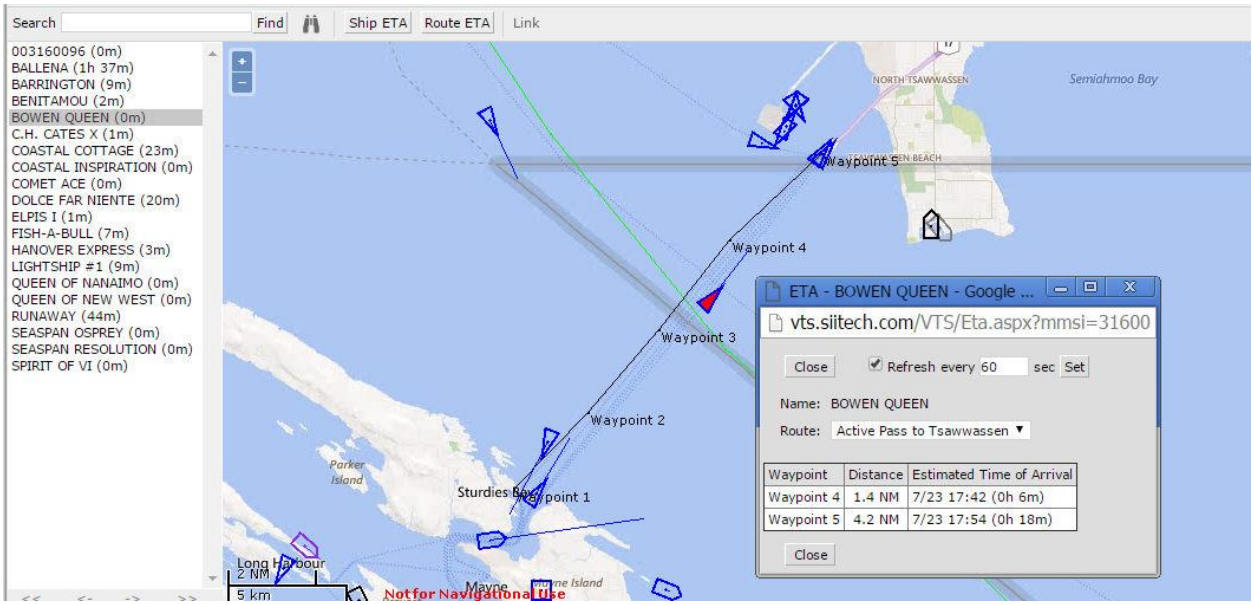
To improve accuracy, you can zoom in on the map view and build a route with numerous waypoints in close proximity to one another.
In that case, it is not necessary to monitor every single waypoint or show all points on the map in order to obtain an ETA.
You can check the box beside the points you consider necessary to monitor, and uncheck the rest of the points that you would like to hide.

Click the **Apply** button to save changes and keep the **Route Designer** open, or click **OK** to save changes and return to the main view.



Click on the **Route ETA** button in the toolbar to open a new **ETA** window. The expected length of time until each ship reaches the next point in its trajectory is displayed under the waypoint columns. You can set a time for the **ETA** window to refresh automatically if you choose to leave this window open. To track an indvidual ship's ETA, click on a ship to select it, and then click the **Ship ETA** button in the toolbar.

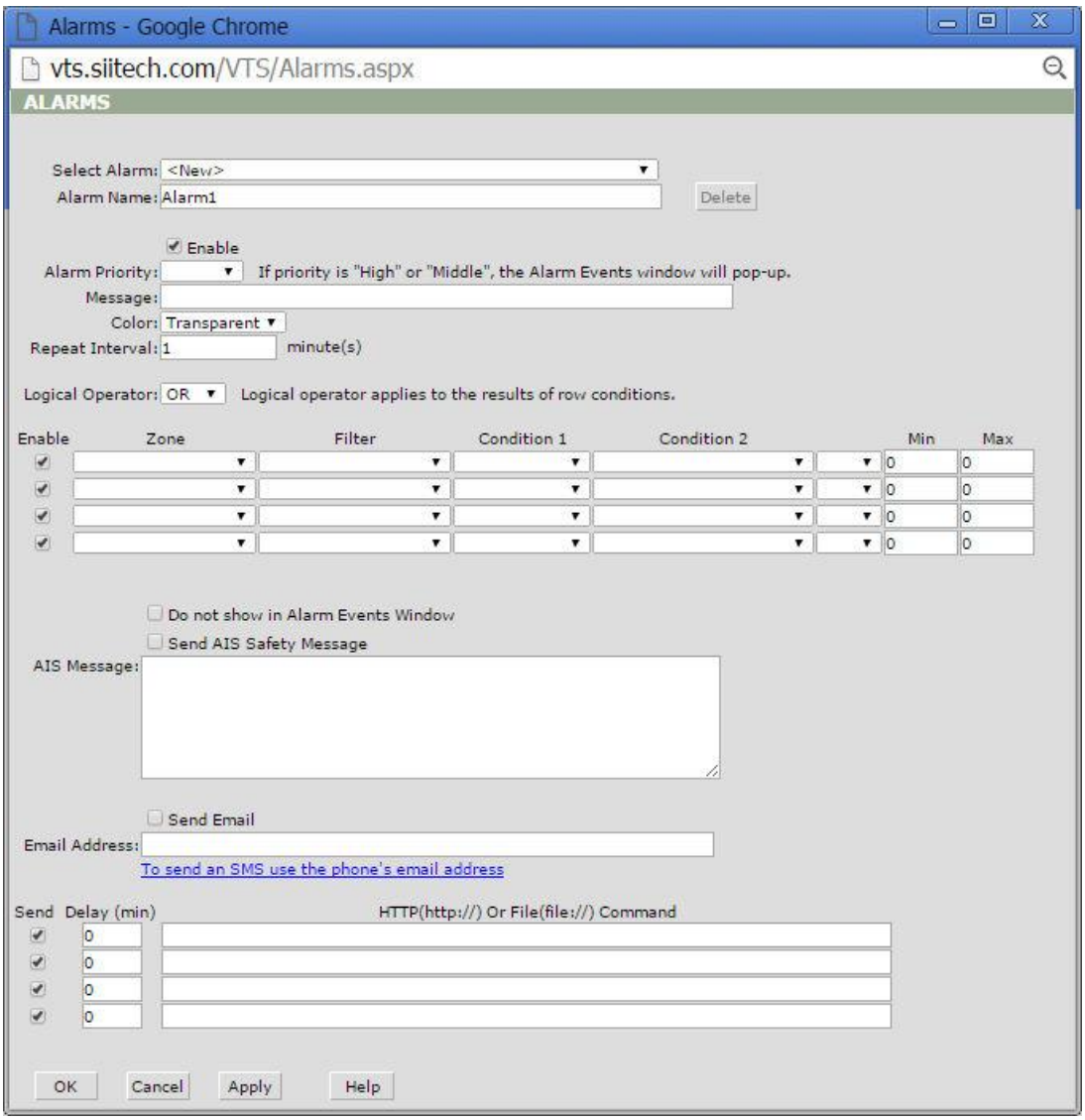
In this example, we have clicked on the BOWEN QUEEN. A pop-up will appear, reporting the ETA and distance to the next waypoint(s) for the selected ship only.



Alarms

Alarm Designer

Click the **Alarm Designer button** in the toolbar to open the **Alarm Designer** in a new window.



Select Alarm. Select an existing alarm or create a new alarm.

Alarm Name. Display and edit an alarm name (by default the program uses "AlarmN" for every new alarm created, where N is the first available number).

Delete. Delete any selected alarm.

Enable. Check the box to enable the alarm.

Alarm Priority. Select level of alarm priority from "Low", "Middle", or "High". Selecting "Middle" or "High" priority will cause the Alarm Events window to automatically pop-up when the respective alarm is triggered. *Note*: Make sure that you browser allows pop-ups from the Web VTS website.

Message. Type the message you would like to appear on screen when the alarm is triggered.

Color. Select a text color from the drop-down menu for the message in the **Alarm Events** window.

Repeat Interval. Set a minimum time interval between notifications for alarms triggered more than one time. Enter "0" if you do not want to receive repeat notifications.

Logical Operator. Select "OR" to trigger an alarm event if conditions in any single row are met. Select "AND" to trigger an alarm if conditions in all rows are met.

Enable. Check this box to enable a zone.

Zone. Select the zone in which you wish to monitor alarm conditions.

Filter. Select the filter to monitor alarm conditions for specified ships only.

Condition 1. Select the alarm condition without parameters (see description below).

Condition 2. Select the alarm condition with parameters (see description below).

Do not show in Alarm Events Window. Prevents alarm notifications from appearing in the **Alarm Events** window.

Send AIS Safety Message. Check this box to send AIS Safety Messages to ships which triggered this alarm. Note: Web VTS must have access to AIS transponder or AIS base station.

AIS Message. Enter the body of text to be sent in AIS Safety Message.

Send Email. Check this box to receive alarm notifications via e-mail.

Email Address. Enter e-mail address or addresses separated by semicolons (;).

HTTP(http://) Or File(file://) Command. Use these fields for sending HTTP commands or updating text files on the server.

List of possible conditions without parameters (Condition 1):

- **On Enter.** Triggers alarm when ship enters zone.
- **On Exit.** Triggers alarm when ship exits zone.
- **On Enter/Exit.** Triggers alarm when ship enters or exits zone.
- **Light Off.** Triggers alarm when AtoN light is off.
- **Light Error.** Triggers alarm if AtoN reports light error.

- **RACON Error.** Triggers alarm if AtoN reports RACON error.
- **Health Alarm.** Triggers alarm if AtoN reports health alarm.
- **Off Position.** Triggers alarm if AtoN reports off-position status.
- **Low Battery.** Triggers alarm if AtoN reports low battery status.
- **Photocell Error.** Triggers alarm if AtoN reports photocell error.
- **DSC Distress Alert.** Triggers alarm if a DSC distress alert has been received.
- **DSC Urgency Call.** Triggers alarm if DSC urgency call has been received.
- **DSC Safety Call.** Triggers alarm if DSC safety call has been received.
- **DSC Routine Call.** Triggers alarm if DSC routine call has been received.
- **In Zone.** Triggers alarm if ship is located in specified zone.
- **Not In Zone.** Triggers alarm if ship is located outside the specified zone.
- **New Ship Data.** Triggers alarm if AIS data of ship has changed (ship name, call sign, IMO).
- **Mile Marker.** For internal use.
- **Geo-Fence.** Triggers alarm if AIS transponder generates "Geo-Fence Alert" signal.
- **SOS.** Triggers alarm if AIS transponder generates "SOS Alert" signal.
- **Power.** Triggers alarm if AIS transponder generates "Low Power Alert" signal.
- **On Battery.** Triggers alarm if device is battery powered.
- **Open Doors 0.** Triggers alarm if device generates Door Open signal (0).
- **Open Doors 1.** Triggers alarm if device generates Door Open signal (1).
- **Bit0 - Tilt.** Triggers alarm if AtoN tilt sensor is activated.
- **Bit1 - Shock.** Triggers alarm if AtoN shock sensor is activated.
- **Bit2 - GPS.** Triggers alarm in case of AtoN GPS acquisition failure.
- **Bit3 - GSM.** Triggers alarm in case of AtoN GSM module failure.
- **Bit4 - AIS.** Triggers alarm in case of AtoN AIS module failure.
- **Bit5- Guard.** Triggers alarm if AtoN guard sensor is activated.
- **Bit6 - CTRL.** Triggers alarm in case of AtoN controller hardware problem.
- **Bit7 - Power.** Triggers alarm in case of AtoN power subsystem failure.
- **GPS.** Triggers alarm if AIS transponder generates "GPS Alert" signal.

List of possible conditions with parameters (Condition 2):

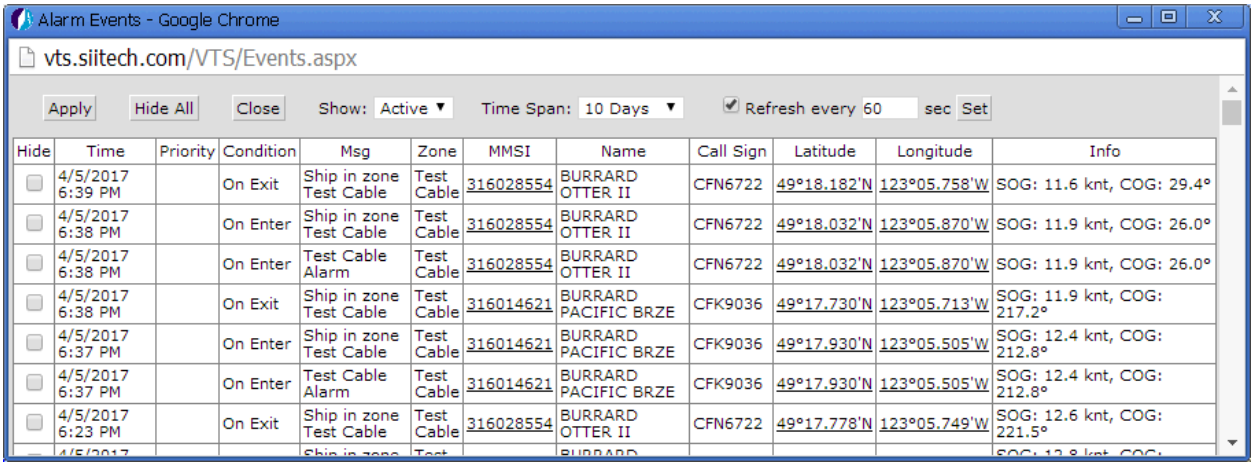
- **Speed (knots).** Triggers alarm if ship speed is in specified range.
- **Wind Speed (knots).** Triggers alarm if wind speed is in specified range.
- **Wind Gust (knots).** Triggers alarm if wind gust is in specified range.
- **Air Pres. (hPa).** Triggers alarm if air pressure is in specified range.
- **Air Temp. (°C).** Triggers alarm if air temperature is in specified range.
- **Analogue Int. (V).** Triggers alarm if AtoN analogue internal voltage is in specified range.
- **Analogue Ext.1 (V).** Triggers alarm if AtoN analogue external voltage is in specified range.

- **Analogue Ext.2 (V).** Triggers alarm if AtoN analogue external voltage is in specified range.
- **Voltage (V).** Triggers alarm if AtoN voltage is in specified range.
- **Current (A).** Triggers alarm if AtoN current is in specified range.
- **Reporting Interval (min).** Triggers alarm if ship reporting interval is in specified range.
- **Time to Enter (min).** Triggers alarm if ship will enter zone within specified time interval.
- **Time to Exit (min).** Triggers alarm if ship will exit zone within specified time interval.
- **Course Change (min|deg).** Triggers alarm if ship is changing course within specified parameter.
- **Approach (meters|min).** Triggers alarm if ship is approaching another ship with the specified speed.
- **Min.Speed and Time (knots|min).** Triggers alarm if ship speed is less than specified for a given time span..
- **Max.Speed and Time (knots|min).** Triggers alarm if ship speed is more than specified for a given time span.

Note: to trigger an alarm when parameters are out of specified range, use the "NOT" prefix.

View Alarms

You can view alarm information by clicking the **Show Events** button in the toolbar to open the **Alarm Events** window.



Hide	Time	Priority	Condition	Msg	Zone	MMSI	Name	Call Sign	Latitude	Longitude	Info
	4/5/2017 6:39 PM		On Exit	Ship in zone Test Cable	Test Cable	316028554	BURRARD OTTER II	CFN6722	49°18.182'N	123°05.758'W	SOG: 11.6 knt, COG: 29.4°
	4/5/2017 6:38 PM		On Enter	Ship in zone Test Cable	Test Cable	316028554	BURRARD OTTER II	CFN6722	49°18.032'N	123°05.870'W	SOG: 11.9 knt, COG: 26.0°
	4/5/2017 6:38 PM		On Enter	Test Cable Alarm	Test Cable	316028554	BURRARD OTTER II	CFN6722	49°18.032'N	123°05.870'W	SOG: 11.9 knt, COG: 26.0°
	4/5/2017 6:38 PM		On Exit	Ship in zone Test Cable	Test Cable	316014621	BURRARD PACIFIC BRZE	CFK9036	49°17.730'N	123°05.713'W	SOG: 11.9 knt, COG: 217.2°
	4/5/2017 6:37 PM		On Enter	Ship in zone Test Cable	Test Cable	316014621	BURRARD PACIFIC BRZE	CFK9036	49°17.930'N	123°05.505'W	SOG: 12.4 knt, COG: 212.8°
	4/5/2017 6:37 PM		On Enter	Test Cable Alarm	Test Cable	316014621	BURRARD PACIFIC BRZE	CFK9036	49°17.930'N	123°05.505'W	SOG: 12.4 knt, COG: 212.8°
	4/5/2017 6:23 PM		On Exit	Ship in zone Test Cable	Test Cable	316028554	BURRARD OTTER II	CFN6722	49°17.778'N	123°05.749'W	SOG: 12.6 knt, COG: 221.5°

Apply. Save changes but keep the **Alarm Events** window open.

Close. Close the **Alarm Events** window.

Hide All. Confirm all alarms listen in **Alarm Events** simultaneously and dismiss further notifications.

Show. Select "Active" from the drop-down list to display only the alarms that you have not yet responded to. Select "All" from the drop-down list to view both active and hidden alarms.

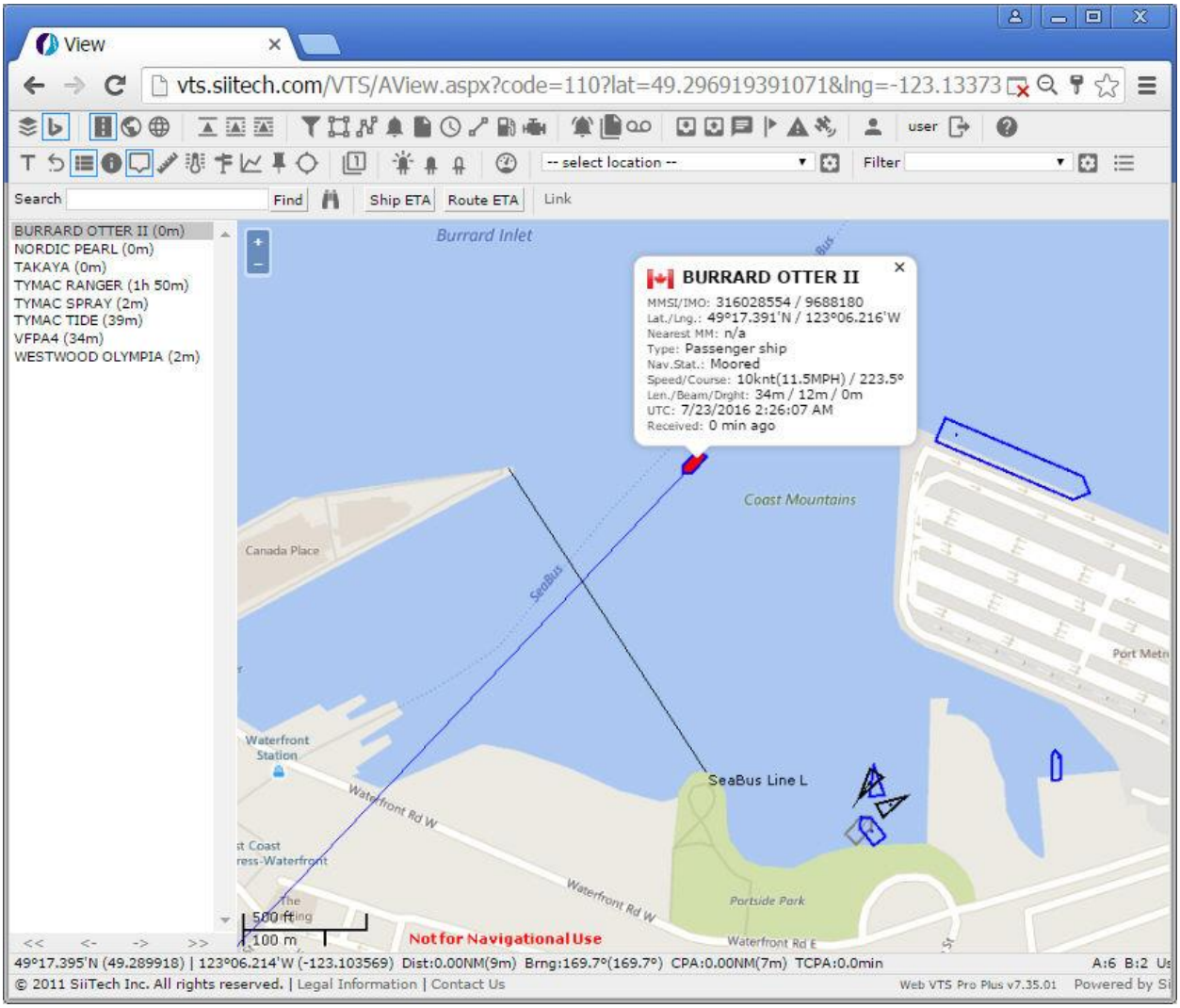
Time Span. Select a predefined time span from the drop-down list to view only those alarms that fall within a certain time frame. You can choose from "24 hours", "48 hours", "10 days", "30 days", "90 days", "365 days", or "All".

Refresh every ___ sec. Check this box to automatically refresh your **Alarm Events** window. Use this field to type how often you would like **Alarm Events** to refresh (in seconds) and click the **Set** button to apply your changes.

Hide. Check this box beside the individual alarm(s) you would like to acknowledge or dismiss. Click the **Apply** button to save your changes.

Ship Arriving Alarm

For this example, we are going to build an alarm that will be triggered when the BURRARD OTTER II SeaBus crosses "SeaBus Line L" (see below).


View
vts.siitech.com/VTS/AView.aspx?code=110?lat=49.296919391071&lng=-123.13373
user
-- select location --
Filter
Search
Find
Ship ETA
Route ETA
Link
BURRARD OTTER II (0m)
NORDIC PEARL (0m)
TAKAYA (0m)
TYMAC RANGER (1h 50m)
TYMAC SPRAY (2m)
TYMAC TIDE (39m)
VFPA4 (34m)
WESTWOOD OLYMPIA (2m)
Burrard Inlet
BURRARD OTTER II
MMSI/IMO: 316028554 / 9688180
Lat./Lng.: 49°17.391'N / 123°06.216'W
Nearest MM: n/a
Type: Passenger ship
Nav.Stat.: Moored
Speed/Course: 10knt(11.5MPH) / 223.5°
Len./Beam/Drght: 34m / 12m / 0m
UTC: 7/23/2016 2:26:07 AM
Received: 0 min ago
Coast Mountains
Canada Place
SeaBus
Waterfront Station
SeaBus Line L
Waterfront Rd W
Portside Park
Waterfront Rd E
500 ft
100 m
Not for Navigational Use
49°17.395'N (49.289918) | 123°06.214'W (-123.103569) Dist:0.00NM(9m) Brng:169.7°(169.7°) CPA:0.00NM(7m) TCPA:0.0min
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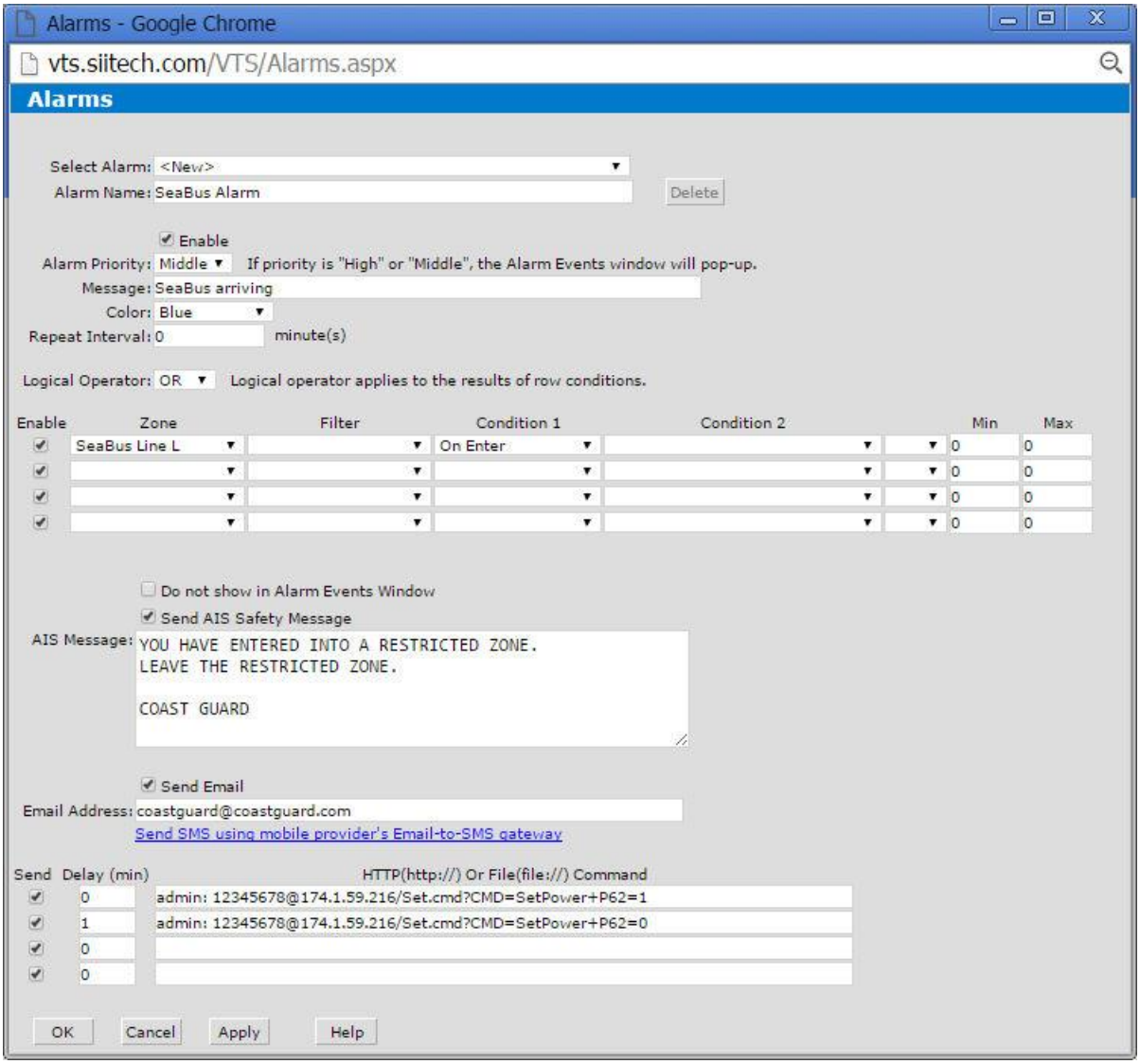
Web VTS Pro Plus v7.35.01
Powered by Si

Creating a SeaBus arriving alarm based on a previously defined zone ("Seabus line L"):



1. Click the **Alarm Designer** button to open the **Alarm Designer**.
2. Select "<New>" from the **Select Alarm** drop-down list.
3. Type “SeaBus Alarm” into the **Alarm** field.
4. Leave the **Enable** box checked.
5. Select “Middle” from the **Alarm Level** drop-down list.
6. Type “Seabus arriving” in the **Message field.**
7. Select “Blue” from the **Color** drop-down list.
8. Type "0" [minutes] into the **Repeat Interval** field (in this example, we are dealing with a one-time event).

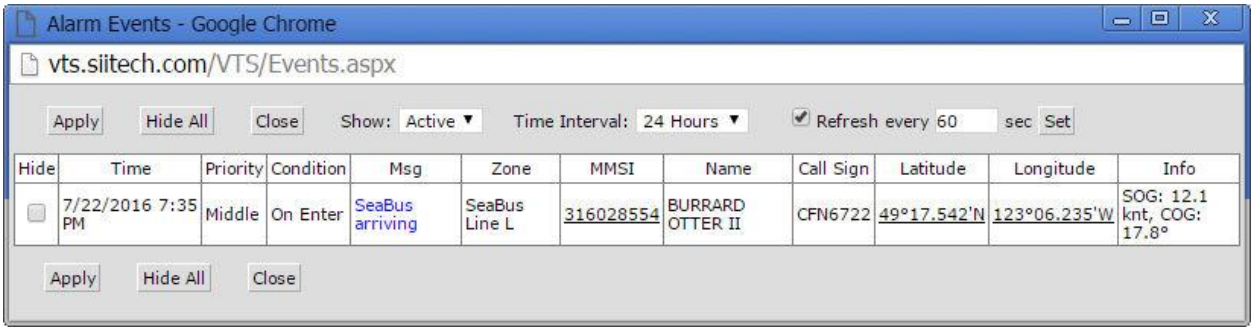
9. Select "OR" from the **Logical Operator** drop-down list (in this example, only one condition must be satisfied in order to generate an alarm event).
10. Select “Seabus Line L” from the **Zone** drop-down list.
    Note: Refer to "Line", found under the **Zone Examples** heading, for a detailed explanation on creating zones.
11. Leave the **Filter** field empty.
12. Select "On Enter" from the **Condition 1** drop-down list.
13. Leave **Condition 2** empty.
14. Leave “0” in the **Min Speed** field.
15. Leave “0” in the **Max Speed** field.
16. Leave the **Do not show in Alarm Events Window** box unchecked.
    Note: When an alarm event happens (e.g. SeaBus crosses the line), the **Alarm Events** window will pop-up.

Optional Steps:

- Check **Send AIS Safety Message.**
  Note: If you have AIS transponder that has a communication with Web VTS then you could send AIS message to any passing AIS equipped ship.
- Type any message in the **AIS Message** box**.** As an example, we have typed: “YOU HAVE ENTERED INTO A RESTRICTED ZONE. LEAVE THE RESTRICTED ZONE. COAST GUARD”.
- Type an e-mail address into the **Email Address** field. As an example, we have typed: “coastguard@coastguard.com”.
- Check **Send Email Notification Message**.
  Note: When an alarm event happens (e.g. SeaBus crosses the line), an e-mail will be sent to the provided e-mail address.
  To send an SMS notification, click **Send SMS using mobile provider's Email-to-SMS gateway**. Find your mobile provider's e-mail address and type your phone number in place of "10digitnumber" in the e-mail address template. Use semicolons (;) to separate e-mail addresses.
- Type an HTTP command in the **HTTP Command** field.
- Leave **Send HTTP** checked.
  Note: When an alarm event happens (e.g. SeaBus crosses the line), an HTTP command will be sent to the IP Power box. In this case, we are using the **IP Power 9258** device to turn the projector ON and OFF.
- Type the desired number of minutes in the Delay field.
  Note: In this case, the IP Power device is triggered (ON) immediately because the first number is 0. Since our second value is 1, the IP Power device will be triggered (OFF) in 1 minute. This means that when the BURRARD OTTER II SeaBus crosses "SeaBus Line L", the projector is turned ON right away and subsequently turned OFF in 1 minute.

Click **Apply** to save changes and click **OK** to return to the main view.

As soon as the alarm condition occurs, the Alarm Event window will appear.



Note: If the alarm has "Middle" or "High" priority, the Alarm Event window will pop-up automatically. Check Hide and click Apply to confirm that you have read the notification. After the confirmation, the Alarm Event window will no longer pop-up until the next event.

Tip: Click **Hide All** to confirm multiple alarm notifications at once.

As soon as the alarm condition occurs:

- You will receive the following e-mail and/or SMS notification:

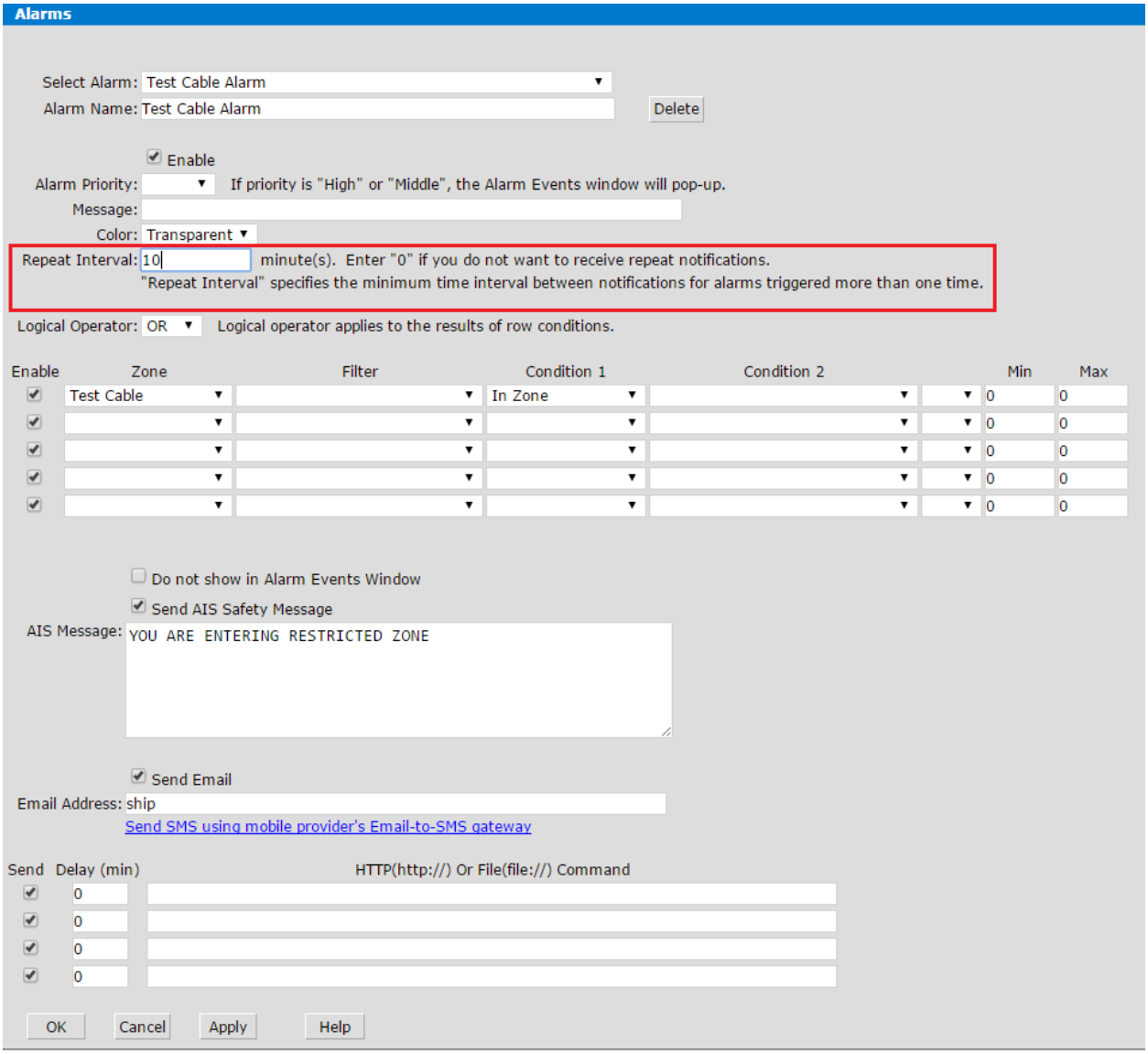
```
UTC: 16-07-23 02:35, Local: 16-07-22 19:35, Alarm: SeaBus Alarm, Type: On Enter, MMSI:
316028554, Name: BURRARD OTTER II, Type: Passenger ship, SOG: 12.1 knt, COG: 17.8°, Lat:
49°17'32.53N, Lng: 123°06'14.11W, Msg: SeaBus arriving, AIS Msg:

Sent by SiiTech Web VTS
www.siitech.com
```

- The following AIS message is sent to the ship that has entered a restricted zone: “YOU HAVE ENTERED INTO A RESTRICTED ZONE. LEAVE THE RESTRICTED ZONE. COAST GUARD”. *Note*: You must have an AIS transponder connected to the computer running Web VTS in order to send AIS messages.
- The IP Power device is triggered and any connected equipment, for instance, a projector or a siren, will turn ON and generate a signal.

Repeating Alarm

Some alarm conditions (e.g. In Zone) may persist for a prolonged period of time. If you want to receive a notification for the first event only, set the **Repeat Interval** field to '0'. If you want to receive notifications during the whole time the condition is satisfied, set the **Repeat Interval** field to the desired time interval between notifications.



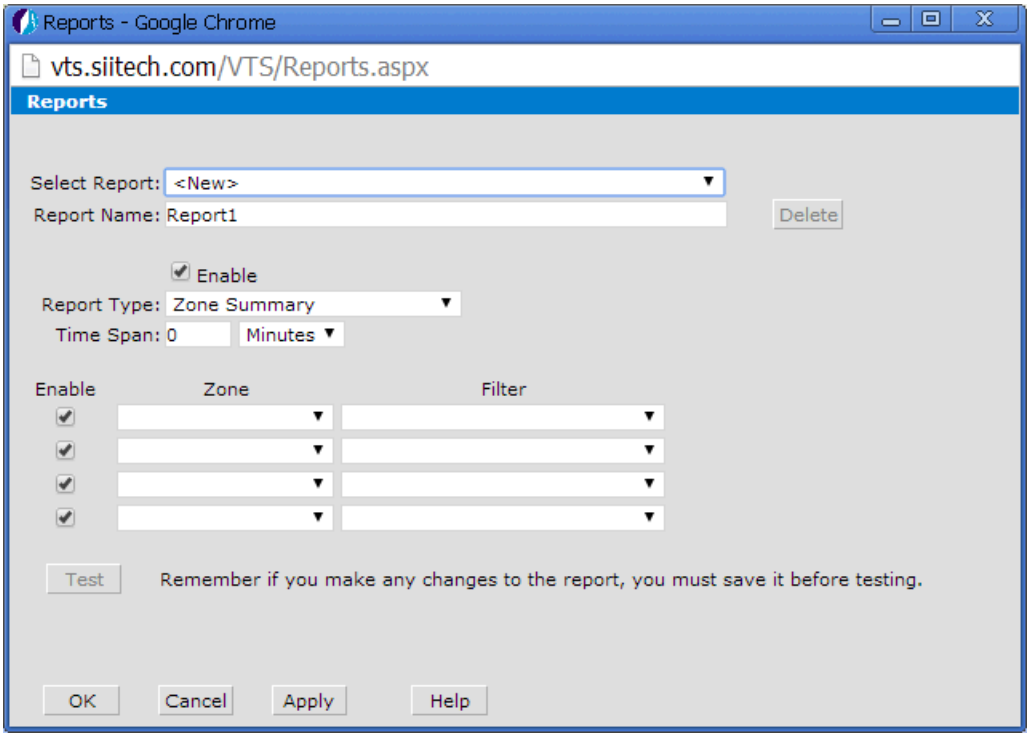
In this example, you will receive notifications every 10 minutes until the ship is in the zone.

Reports

Report Designer

The **Report Designer** allows users to build and customize reports.

Click the **Report Designer** button in the toolbar to open the **Report Designer** in a new window.



Select Report. Select an existing report or create a new report.

Report Name. Display and edit a report name (by default the program uses "ReportN" for every new report created, where N is the first available number).

Delete. Delete any selected report.

Enable. Check the box to enable the report. Uncheck the box to disable the report.

Report Type. Use the drop-down list to select any predefined report (e.g. Zone Summary, Extended Zone Summary, Arrival/Departure, Arrival Time Forecast, Berth Time Summary, Speed Summary, Speed Violation, Enter/Exit).

Time Span. Select the default time span of the data to be used for this report. You will be able to change the time span value in the Run Reports form.

Zone. Select an existing zone from the drop-down list.

Filter. Select an existing filter from the drop-down list.

Enable. Check this box to include the zone and/or filter in the report. Uncheck the box to omit the selected zone and/or filter.

Test. Test the designed report.

OK. Save changes and return to the main view.

Cancel. Cancel all changes and return to the main view.

Apply. Save changes and keep the Report Designer window open.

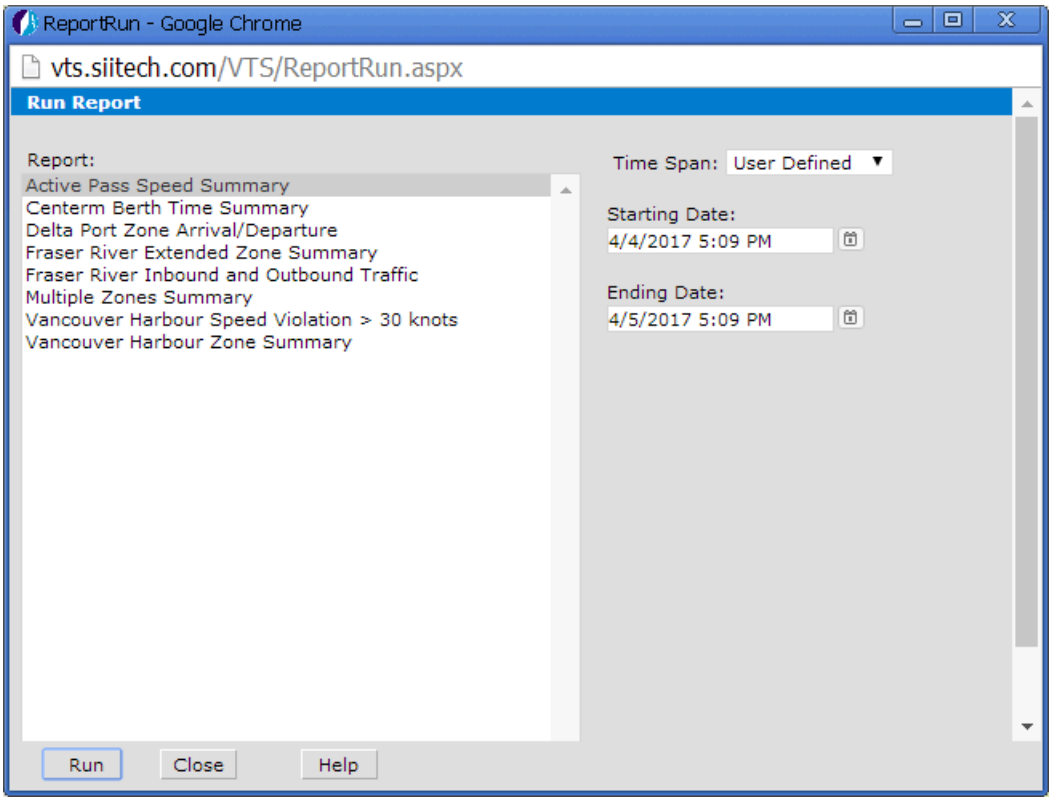
Help. Open the Web VTS User's Guide.

List of possible report types:

- **Zone Summary.** List of all ships in the specified zone(s).
- **Extended Zone Summary.** List of all ships in the specified zone(s) with ship details.
- **Arrival/Departure.** Time of ship arrival to and departure from exit the specified zone(s).
- **Arrival Time Forecast.** Computed time of ship arrival to the specified zone(s).
- **Berth Time Summary.** Ship berth time report. Mooring/unmooring times in the specified zone(s).
- **Speed Summary.** Recorded speed of all ships passing through the specified zone(s).
- **Speed Violation.** List of ships violating maximum and minimum speed limits in the specified zone(s).
- **Enter/Exit.** Time of ship entrance into and exit from the specified zone(s).
- **Weather.** Conditions reported from weather stations in the specified zone(s).
- **Out-of-Tolerance.** List of ships that have not yet sent a LRIT report within the specified time span.
- **Daily Fuel Consumption.** Daily fuel consumption for the ship equipped with SiiTech fuel consumption monitor.
- **Monthly Fuel Consumption.** Monthly fuel consumption for the ship equipped with SiiTech fuel consumption monitor.
- **Estimated Fuel Consumption.** Estimated fuel consumption report based on ship fuel consumption rate.
- **Zone Details.** List of all ships in the specified zone(s) with enter/exit times.
- **Extended Zone Details**. List of all ships in the specified zone(s) with enter/exit times and ship details.
- **Anchorage Time.** Ship anchorage time report.
- **Extended Anchorage Time.** Ship anchorage time report with ship details.

Run Reports

Click the **Run Report** button to run and display any previously built reports in a new window.



Report. Select a report from the list of previously built reports.

Time Span. Select a predefined time span from the drop-down list or choose the option "User Defined" to customize your own time span.

Starting Date. Type your desired starting date and time (e.g. MM/DD/YYYY 12:34 PM) or use the drop-down calendar and hour/minute sliding bars instead.
Note: User Defined mode only.

Ending Date. Type your desired ending date and time (e.g. MM/DD/YYYY 12:34 PM) or use the drop-down calendar and hour/minute sliding bars instead.
Note: User Defined mode only.

Run. Run and display the report in a new window.

Close. Close the **Run Report** window and return to the main view.

Help. Open the Web VTS help.

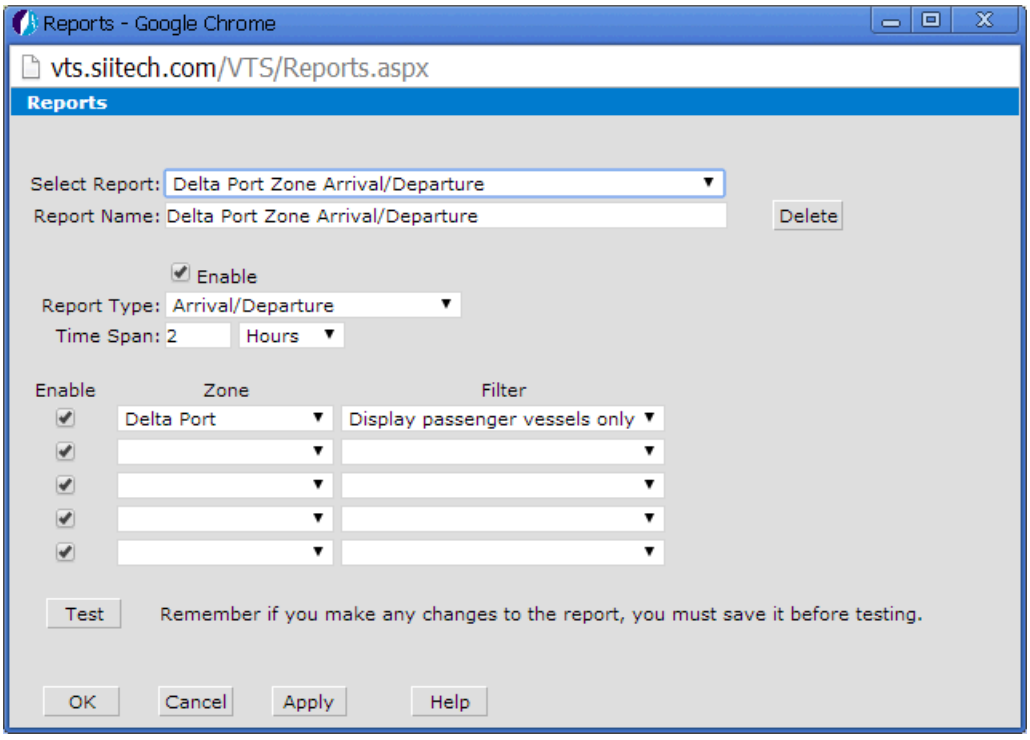
Arrival/Departure report

This report will display information about the arrival/departure passenger ships within the Delta Port zone.

Note: The Delta Port zone had already been created in a previous example. We will limit this report to passenger ships by applying a new filter:

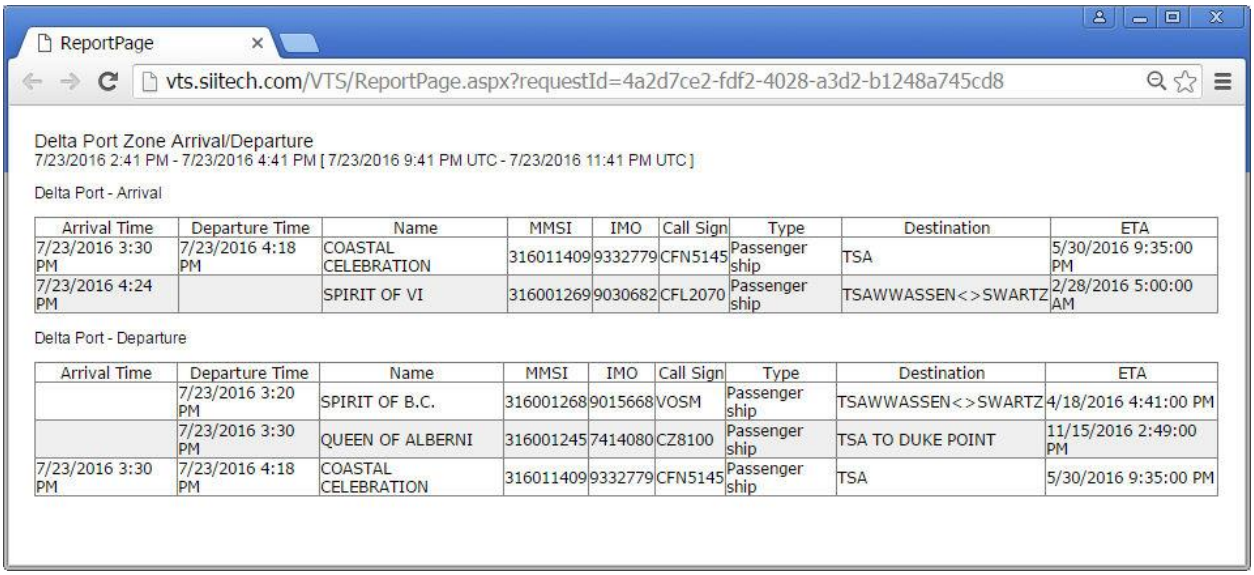
- To create the appropriate filter, click the **Filter Designer** button to open the Filter Designer.
- Type "Display passenger ships only" into the **Filter Name** field.
- In the first row, select "Passenger" from the **Ship Type** drop-down list. Change the color and/or border color to make your filtered ships easier to identify (optional).
- In the second row, type * (asterisk) into the **MMSI** field (* denotes "all ships"). Uncheck the **Enable** box.
- Leave all other fields unmodified. Apply the filter.

Creating the Arrival/Departure report:



- Click the **Report Designer** button to open Report Designer.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Delta Port Zone Arrival/Departure” into the **Report Name** field.
- Leave the **Enable** box checked.
- Select “Arrival/Departure” from the **Report Type** drop-down list.
- Input "2 Hours" into the **Time Span** field. This will retrieve ship arrival and departure data from the past 2 hours.
- Select “Delta Port” from the **Zone** drop-down list.
- Select “Display passenger ships only” from the **Filter** drop-down list.

Click the **Apply** button to save your settings. Click the **Test** button to display the Arrival/Departure report.



Delta Port Zone Arrival/Departure
7/23/2016 2:41 PM - 7/23/2016 4:41 PM [7/23/2016 9:41 PM UTC - 7/23/2016 11:41 PM UTC]

Delta Port - Arrival

Arrival Time	Departure Time	Name	MMSI	IMO	Call Sign	Type	Destination	ETA
7/23/2016 3:30 PM	7/23/2016 4:18 PM	COASTAL CELEBRATION	316011409	9332779	CFN5145	Passenger ship	TSA	5/30/2016 9:35:00 PM
7/23/2016 4:24 PM		SPIRIT OF VI	316001269	9030682	CFL2070	Passenger ship	TSAWWASSEN<>SWARTZ	2/28/2016 5:00:00 AM

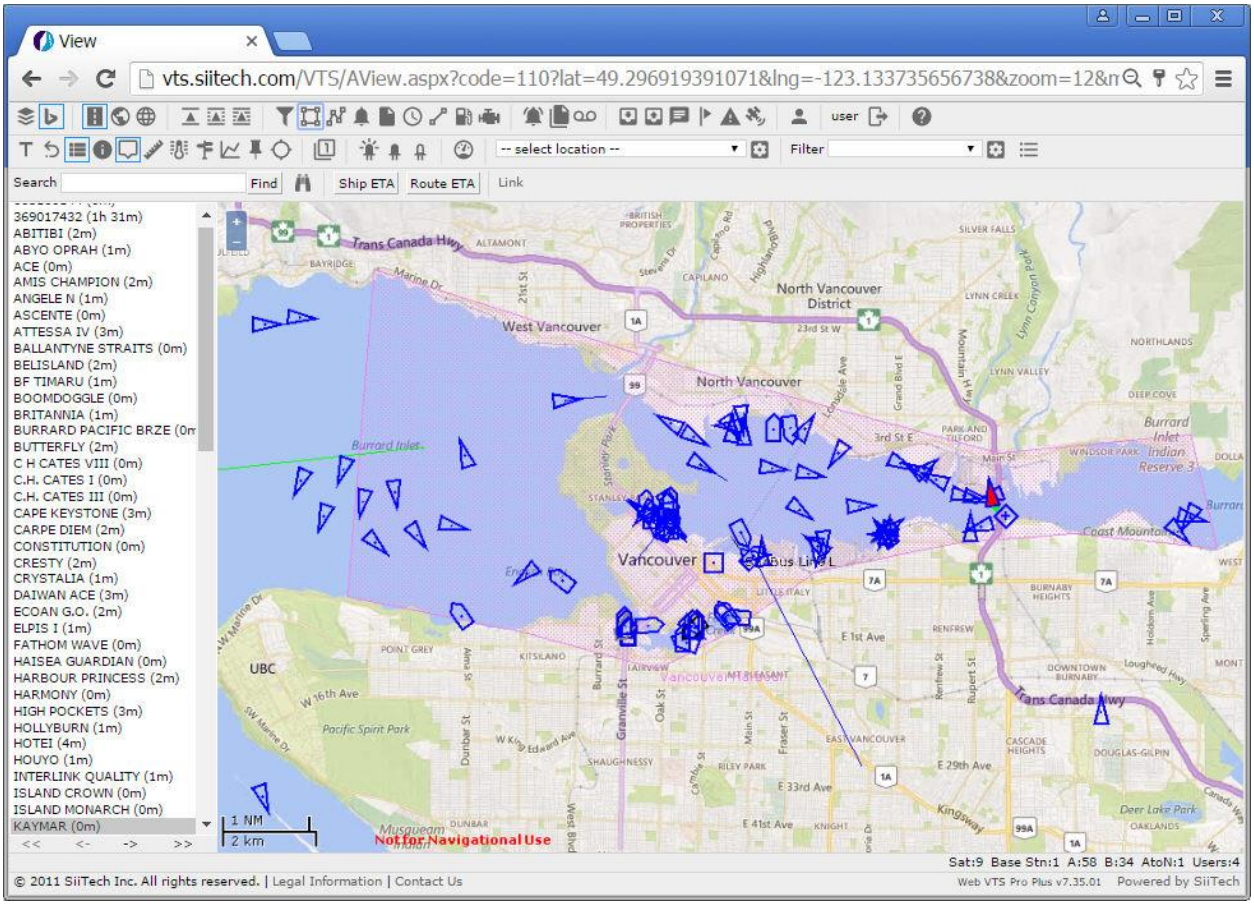
Delta Port - Departure

Arrival Time	Departure Time	Name	MMSI	IMO	Call Sign	Type	Destination	ETA
	7/23/2016 3:20 PM	SPIRIT OF B.C.	316001268	9015668	VOSM	Passenger ship	TSAWWASSEN<>SWARTZ	4/18/2016 4:41:00 PM
	7/23/2016 3:30 PM	QUEEN OF ALBERNI	316001245	7414080	CZ8100	Passenger ship	TSA TO DUKE POINT	11/15/2016 2:49:00 PM
7/23/2016 3:30 PM	7/23/2016 4:18 PM	COASTAL CELEBRATION	316011409	9332779	CFN5145	Passenger ship	TSA	5/30/2016 9:35:00 PM

One Zone Summary report

The **Zone Summary** report is designed to produce a quick estimate regarding harbour conditions.

Note: In order to produce any report, you must have created at least one zone. Recall the polygon zone ("Vancouver Harbour") we built in the **Zone Examples** section. In this example, we will be dealing with the same zone again (shown in the image below).



Creating the Zone Summary report for one zone

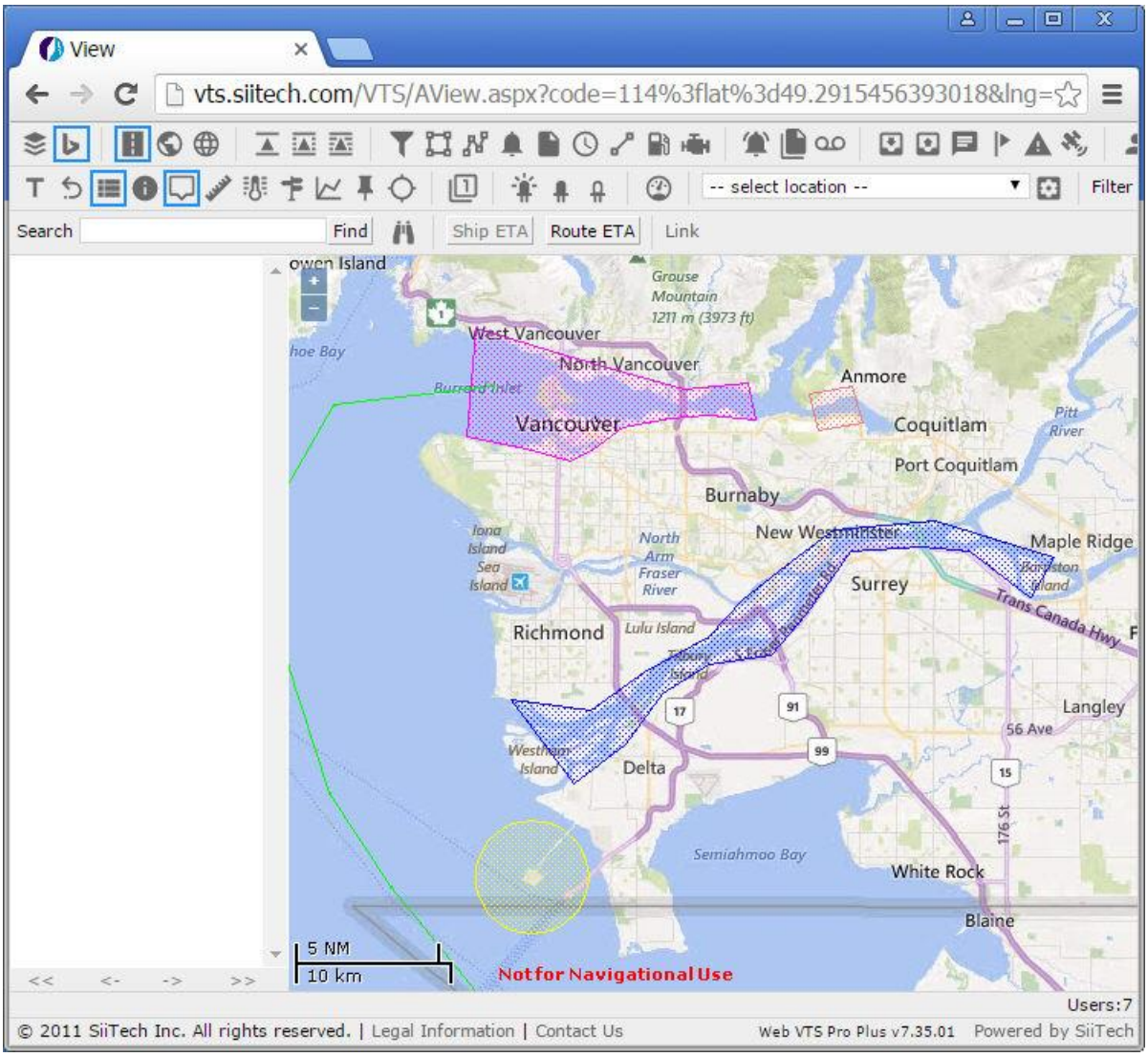
- Click the **Report Designer** to open the **Report Designer** window.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Vancouver Harbour Zone Summary” in the **Report** field.
- Leave the **Enable** box checked.
- Select “Zone Summary” from the **Report Type** drop-down list.
- Select “Vancouver Harbour” from the **Zone** drop-down list.
- Leave the **Filter** option blank.

Click the **Apply** button to save your settings. Click the **Test** button to generate the **Vancouver Harbour Zone Summary** report.

Note: If you have several overlapping zones, the “Total unique ships” table will display only unique ships within those zones.

Multiple Zones Summary report

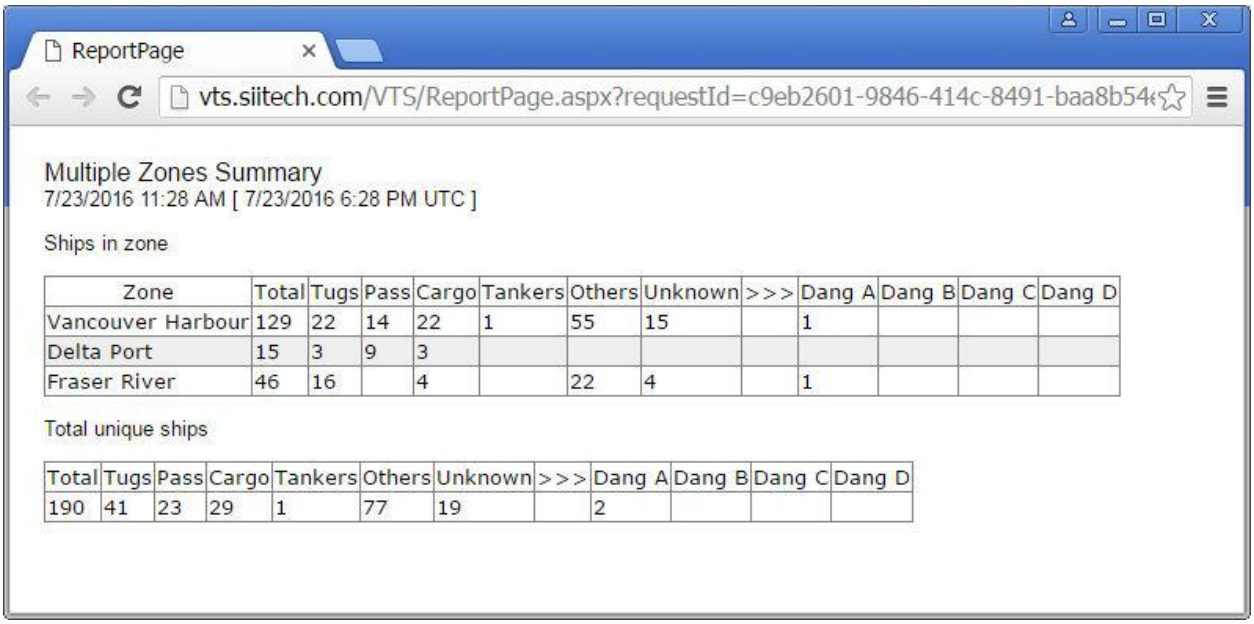
For this example, three zones have been created: "Vancouver Harbour" (violet polygon), "Delta Port" (yellow circle) and "Fraser River" (blue polygon). Refer to the following image:



Creating the Multiple Zones Summary report:

- Click the **Report Designer** button to open the **Report Designer** window.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Multiple Zones Summary” into the **Report** field.
- Leave the **Enable** box checked.
- Select “Zone Summary” from the **Report Type** drop-down list.
- Select “Vancouver Harbour” from the **Zone** drop-down list in the first row.
- Select “Delta Port” from the **Zone** drop-down list in the second row.
- Select “Fraser River” from the **Zone** drop-down list in the third row.
- Leave **Filter** option blank.

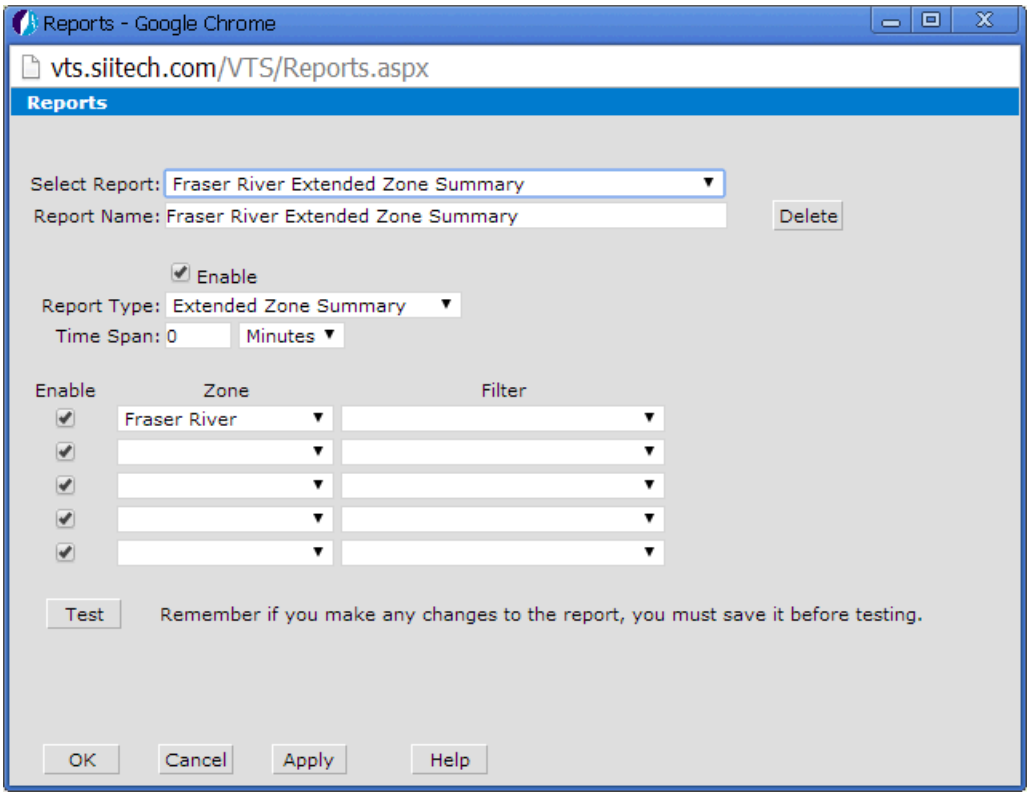
Click the **Apply** button to save your settings. Click the **Test** button to generate the **Multiple Zones Summary** report.



Extended Zone Summary report

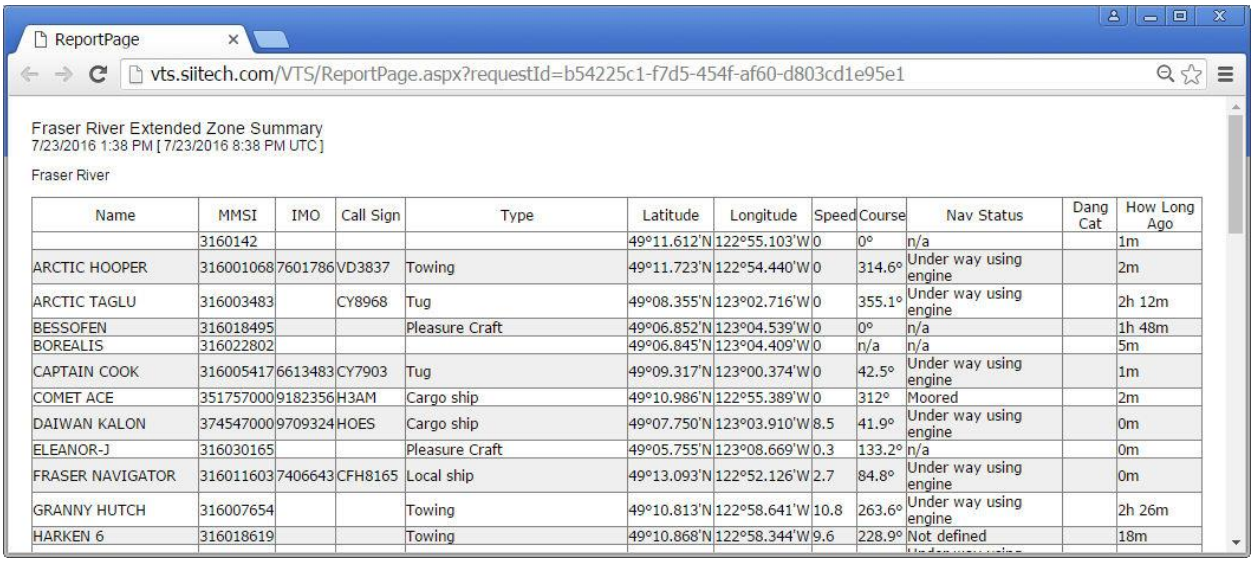
The **Extended Zone Summary** report provides a detailed description about each ship within your specified zone . In this example, we will generate a report for the previously created "Fraser River" zone.

Creating the Extended Zone Summary report:



- Click the **Report Designer** button to open the **Report Designer** window.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Fraser River Extended Zone Summary” in the **Report Name** field.
- Leave the **Enable** box checked.
- Select “Extended Zone Summary” from the **Report Type** drop-down list.
- Select “Fraser River” from the **Zone** drop-down list.
- Leave the **Filter** option blank.

Click the **Apply** button to save your settings. Click the **Test** button to generate the **Extended Zone Summary** report.



Fraser River Extended Zone Summary
7/23/2016 1:38 PM [7/23/2016 8:38 PM UTC]

Fraser River

Name	MMSI	IMO	Call Sign	Type	Latitude	Longitude	Speed	Course	Nav Status	Dang Cat	How Long Ago
	3160142				49°11.612'N	122°55.103'W	0	0°	n/a		1m
ARCTIC HOOPER	316001068	7601786	VD3837	Towing	49°11.723'N	122°54.440'W	0	314.6°	Under way using engine		2m
ARCTIC TAGLU	316003483		CY8968	Tug	49°08.355'N	123°02.716'W	0	355.1°	Under way using engine		2h 12m
BESSOFEN	316018495			Pleasure Craft	49°06.852'N	123°04.539'W	0	0°	n/a		1h 48m
BOREALIS	316022802				49°06.845'N	123°04.409'W	0	n/a	n/a		5m
CAPTAIN COOK	316005417	6613483	CY7903	Tug	49°09.317'N	123°00.374'W	0	42.5°	Under way using engine		1m
COMET ACE	351757000	9182356	H3AM	Cargo ship	49°10.986'N	122°55.389'W	0	312°	Moored		2m
DAIWAN KALON	374547000	9709324	HOES	Cargo ship	49°07.750'N	123°03.910'W	8.5	41.9°	Under way using engine		0m
ELEANOR-J	316030165			Pleasure Craft	49°05.755'N	123°08.669'W	0.3	133.2°	n/a		0m
FRASER NAVIGATOR	316011603	7406643	CFH8165	Local ship	49°13.093'N	122°52.126'W	2.7	84.8°	Under way using engine		0m
GRANNY HUTCH	316007654			Towing	49°10.813'N	122°58.641'W	10.8	263.6°	Under way using engine		2h 26m
HARKEN 6	316018619			Towing	49°10.868'N	122°58.344'W	9.6	228.9°	Not defined		18m

Speed Violation report

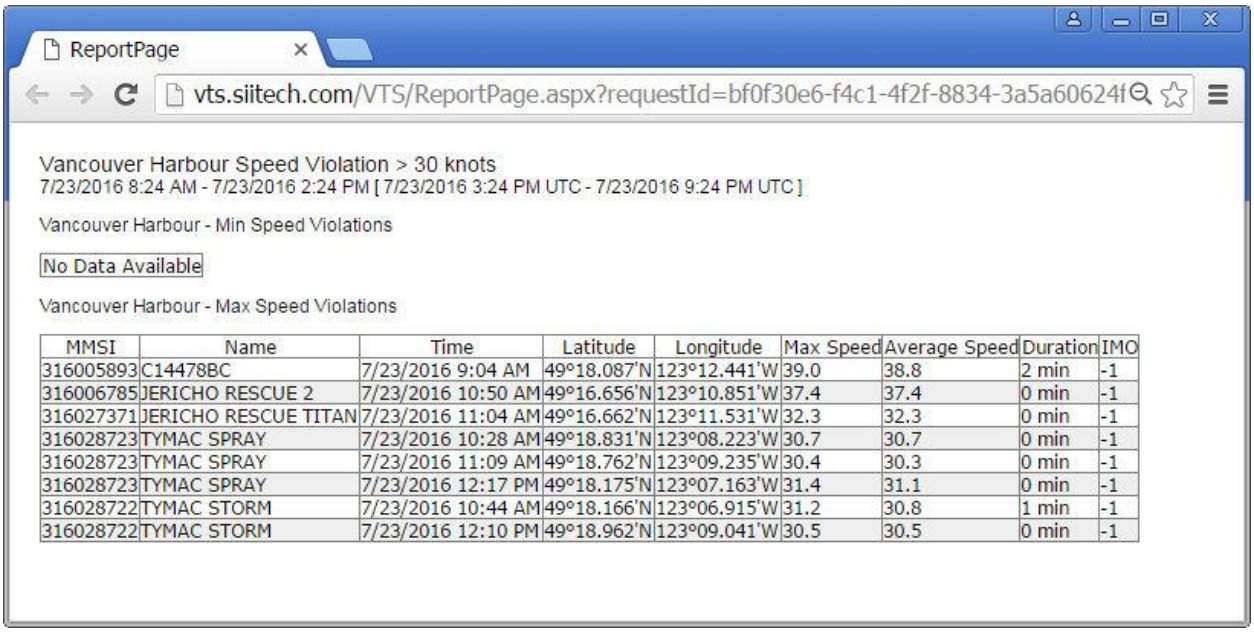
The **Speed Violation** report is a tool which can be used to check ship speed within a predefined zone and record speed violations. You can set a minimum speed, a maximum speed, or a speed range for your zone. In this example, we will set the upper speed limit to 30 knots.

This report will be built for the “Vancouver Harbour" zone, which we have already used in previous examples.
(*Note*: see the **Zone Examples** heading for a detailed guide on creating polygon zones.)

Creating the Speed Violation report:

- Click the **Report Designer** button to open the **Report Designer** window.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Vancouver Harbour Speed Violation > 30 knots” in the **Report Name** field.
- Leave the **Enable** box checked.
- Select “Speed Violation” from the **Report Type** drop-down list.
- Input "6 Hours" in the **Time Span** field. This will provide a list of all ships violating the zone's speed limit within the past 6 hours. The time span can be customized for all **Speed Violation** reports.
- Select “Vancouver Harbour” from the **Zone** drop-down list.
- Leave the **Filter** option blank.
- Leave the **Min Speed** field blank.
- Enter "30.0" into the **Max Speed** field (knots).

Click the **Apply** button to save your settings. Click the **Test** button to display the **Speed Violation** report.



MMSI	Name	Time	Latitude	Longitude	Max Speed	Average Speed	Duration	IMO
316005893	C14478BC	7/23/2016 9:04 AM	49°18.087'N	123°12.441'W	39.0	38.8	2 min	-1
316006785	JERICHO RESCUE 2	7/23/2016 10:50 AM	49°16.656'N	123°10.851'W	37.4	37.4	0 min	-1
316027371	JERICHO RESCUE TITAN	7/23/2016 11:04 AM	49°16.662'N	123°11.531'W	32.3	32.3	0 min	-1
316028723	TYMAC SPRAY	7/23/2016 10:28 AM	49°18.831'N	123°08.223'W	30.7	30.7	0 min	-1
316028723	TYMAC SPRAY	7/23/2016 11:09 AM	49°18.762'N	123°09.235'W	30.4	30.3	0 min	-1
316028723	TYMAC SPRAY	7/23/2016 12:17 PM	49°18.175'N	123°07.163'W	31.4	31.1	0 min	-1
316028722	TYMAC STORM	7/23/2016 10:44 AM	49°18.166'N	123°06.915'W	31.2	30.8	1 min	-1
316028722	TYMAC STORM	7/23/2016 12:10 PM	49°18.962'N	123°09.041'W	30.5	30.5	0 min	-1

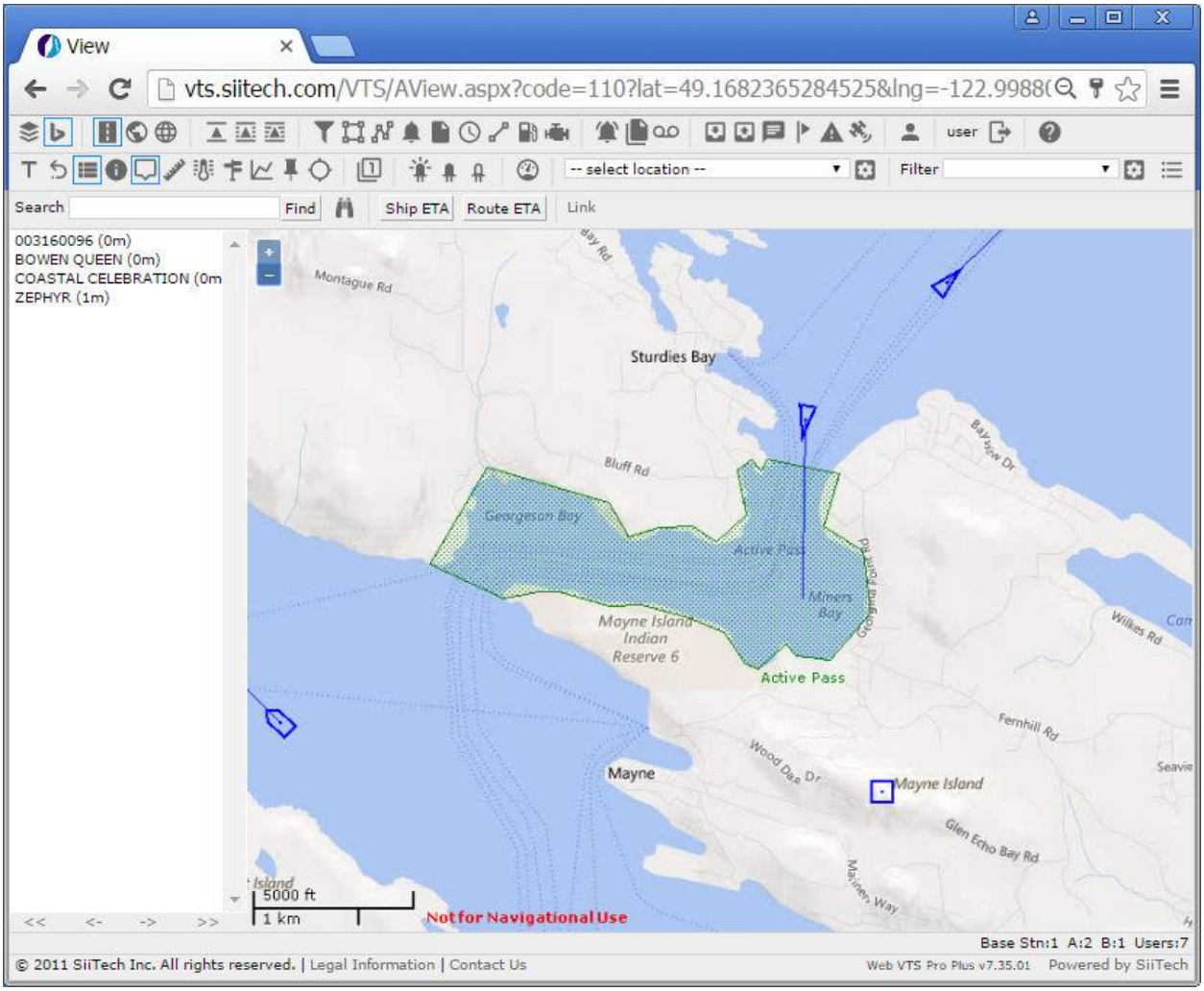
The report contains information regarding:

- Position (coordinates) of the first recorded violation
- Maximum speed of each ship
- Average speed of each ship
- Duration of time that the ship's maximum speed was above the permitted speed.

Speed Summary report

The **Speed Summary** report can be used to make a thorough analysis of ship speeds within any particular high-traffic passage.

Note: To produce the report for this example, we have created the "Active Pass" zone using the **Zone Designer** (green polygon).
Active Pass is a narrow passage used as the main ferry route between Canada's Southern Gulf Islands.


View
vts.siitech.com/VTS/AView.aspx?code=110?lat=49.1682365284525&lng=-122.9988
user
-- select location --
Filter
Search
Find
Ship ETA
Route ETA
Link
003160096 (0m)
BOWEN QUEEN (0m)
COASTAL CELEBRATION (0m
ZEPHYR (1m)
Montague Rd
Sturdies Bay
Bluff Rd
Georgeson Bay
Active Pass
Miners Bay
Mayne Island Indian Reserve 6
Active Pass
Mayne
Mayne Island
Wood Dale Dr
Fernhill Rd
Glen Echo Bay Rd
Mariners Way
Bay View Dr
Wilkes Rd
Seavie
5000 ft
1 km
Not for Navigational Use
Base Stn:1 A:2 B:1 Users:7
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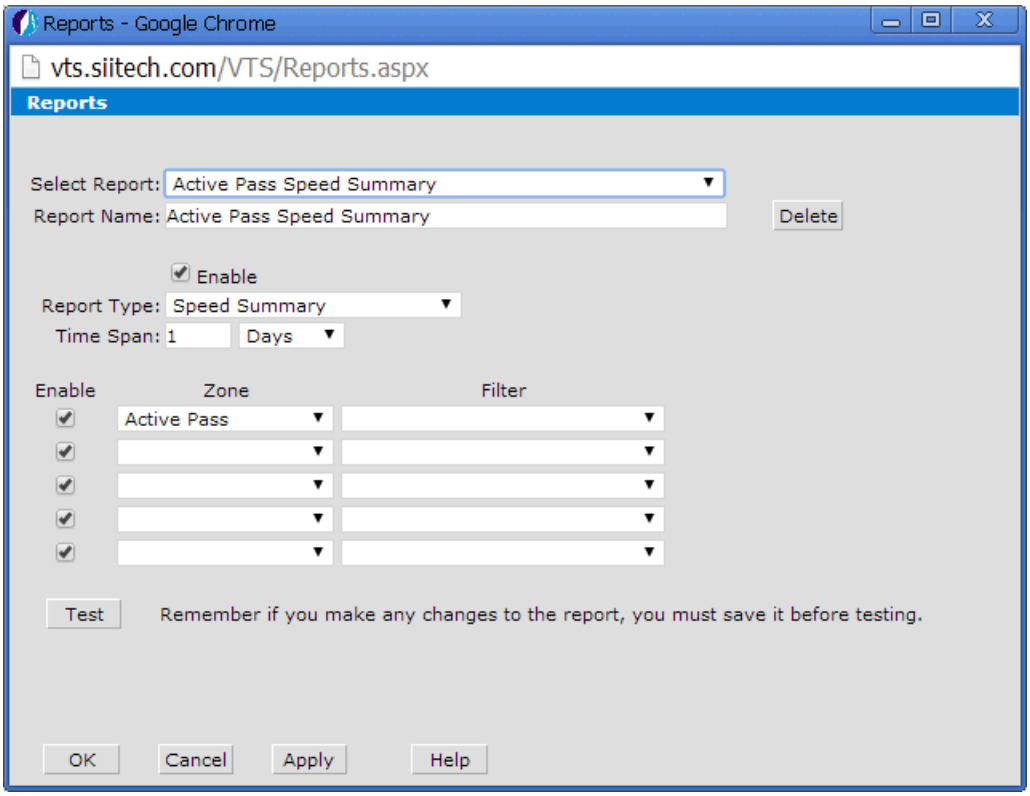
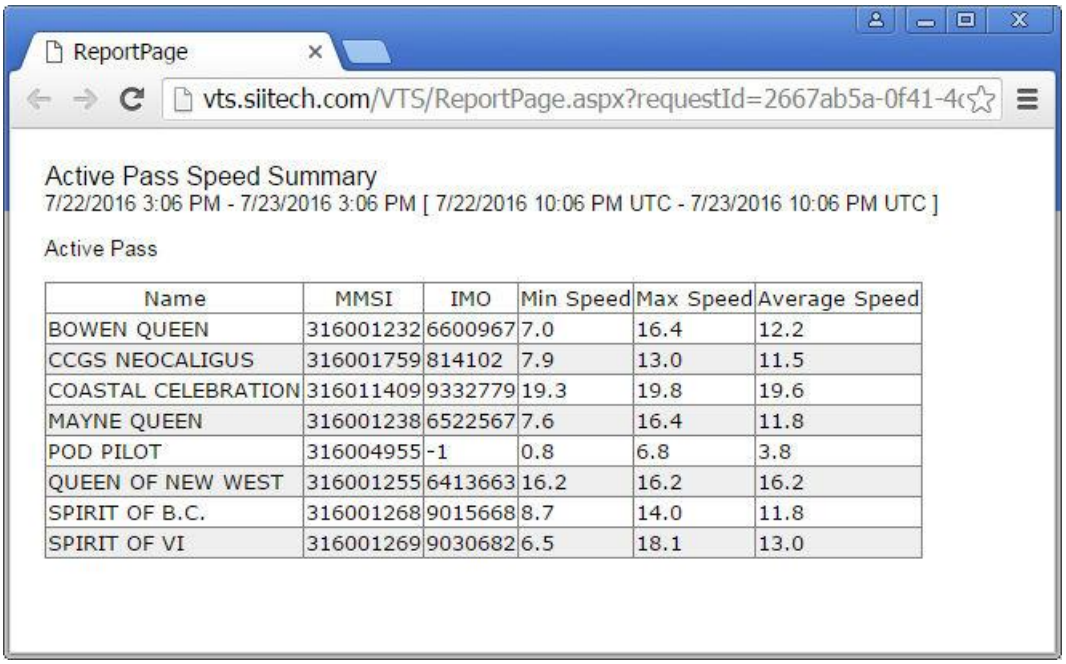
Web VTS Pro Plus v7.35.01 Powered by SiiTech

Creating the Speed Summary report:



- Click the **Route Designer** button to open the **Report Designer** window.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Active Pass Speed Summary” in the **Report Name** field.
- Leave the **Enable** box checked.
- Select “Speed Summary” from the **Report Type** drop-down list.
- Input "1 Day" into the **Time Span** field. The time span can be edited to only display information within the past N minutes, hours, days, or months.
- Select “Active Pass” from the **Zone** drop-down list.
- Leave the **Filter** option blank.

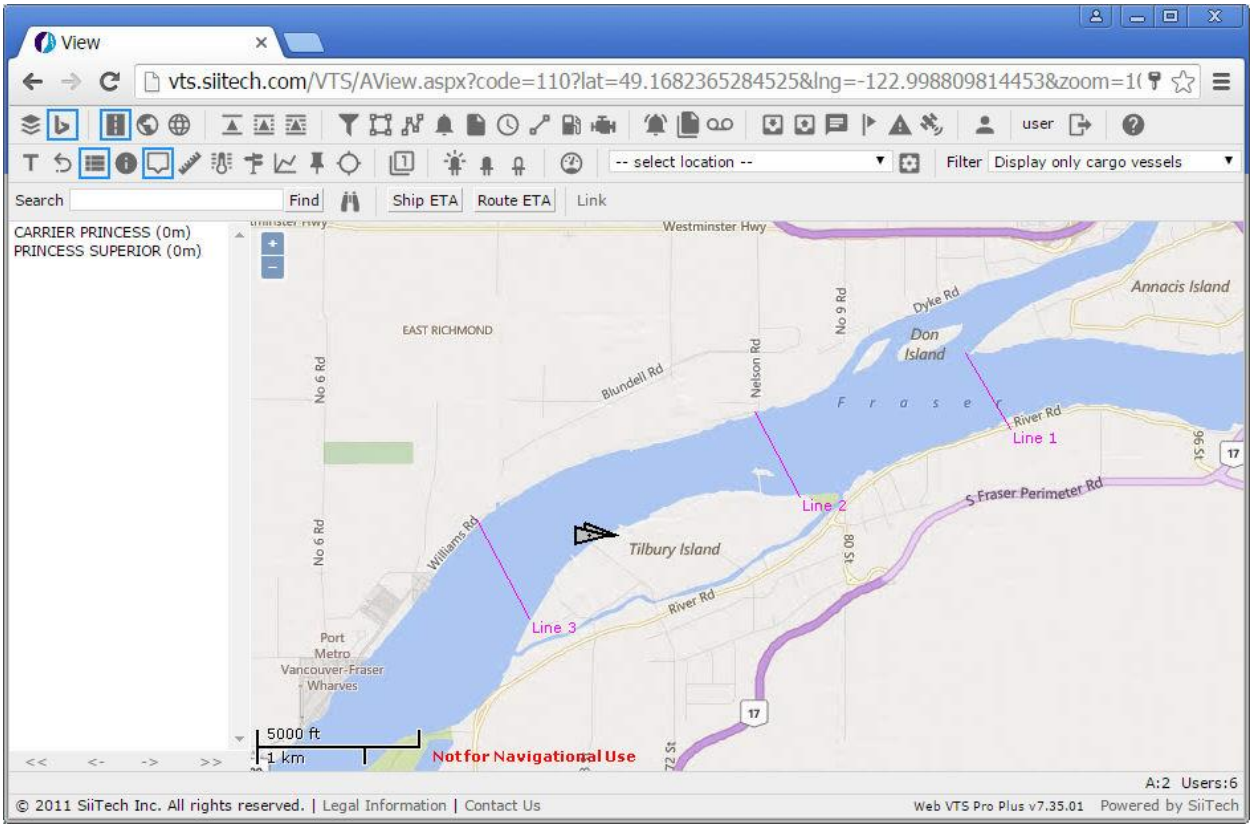
Click the **Apply** button to save your settings. Click the **Test** button to display the **Speed Summary** report.



Name	MMSI	IMO	Min Speed	Max Speed	Average Speed
BOWEN QUEEN	316001232	6600967	7.0	16.4	12.2
CCGS NEOCALIGUS	316001759	814102	7.9	13.0	11.5
COASTAL CELEBRATION	316011409	9332779	19.3	19.8	19.6
MAYNE QUEEN	316001238	6522567	7.6	16.4	11.8
POD PILOT	316004955	-1	0.8	6.8	3.8
QUEEN OF NEW WEST	316001255	6413663	16.2	16.2	16.2
SPIRIT OF B.C.	316001268	9015668	8.7	14.0	11.8
SPIRIT OF VI	316001269	9030682	6.5	18.1	13.0

Enter/Exit Report

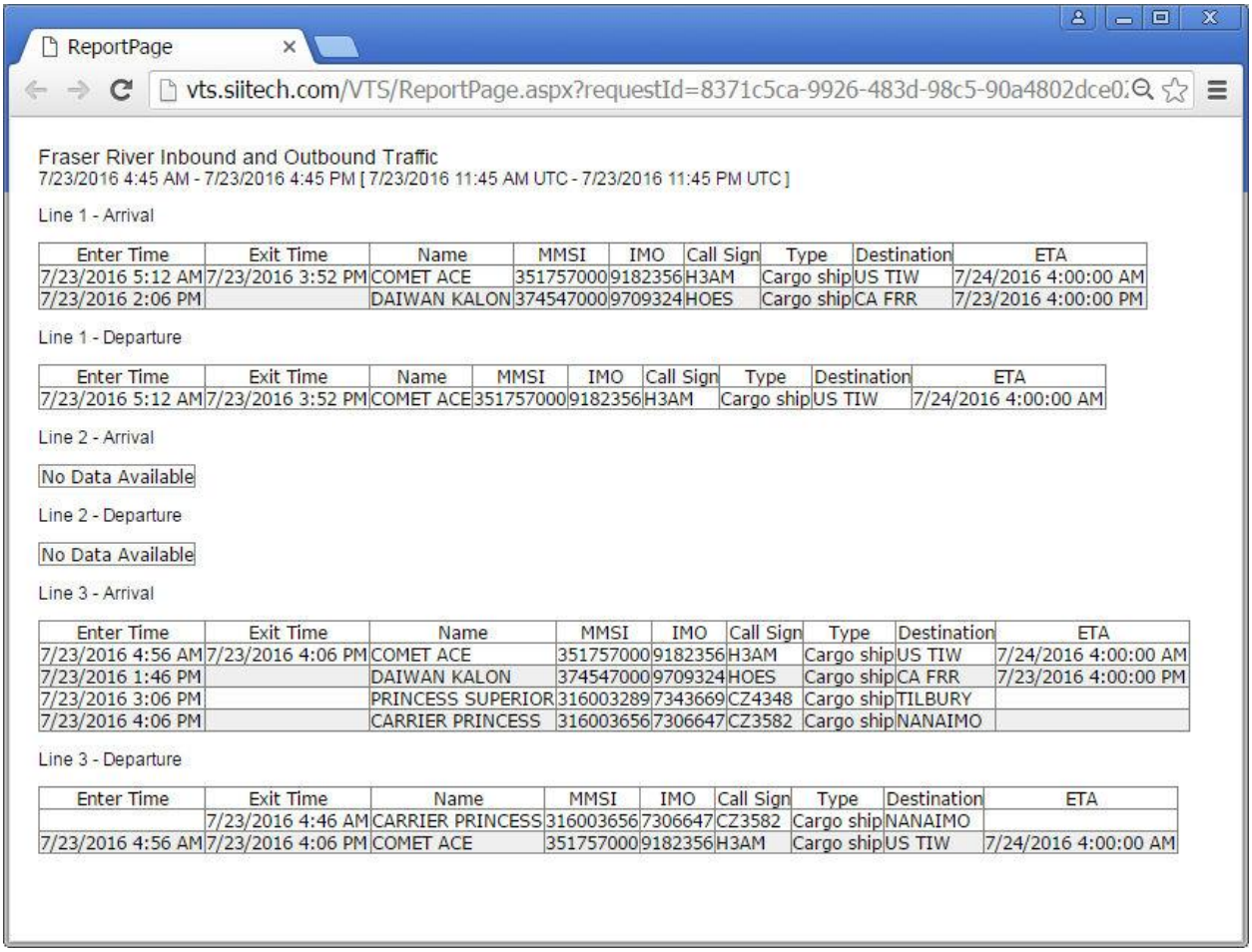
Note: This report will display inbound and outbound traffic on the Fraser River. For this example, we have built Line 1, Line 2, and Line 3 on the Fraser River (see image below). Refer to the **Zone Examples** section for a detailed review of how to create lines.



Creating the Enter/Exit report:

- Click the **Report Designer** button to open the **Report Designer**.
- Select "<New>" from the **Select Report** drop-down list.
- Type “Fraser River Inbound and Outbound Traffic” in the **Report Name** field.
- Leave the **Enable** box checked.
- Select “Enter/Exit” from the **Report Type** drop-down list.
- Input "12 Hours" into the **Time Span** field. This will retrieve enter/exit data from the past 12 hours.
- Select “Line 1” from the **Zone** drop-down list in the first row.
- Select “Line 2” from the **Zone** drop-down list in the second row.
- Select “Line 3” from the **Zone** drop-down list in the third row.
- Select “Display only cargo ships” from the **Filter** drop-down list for all zones (in all three rows).

Click the **Apply** button to save your settings. Click the **Test** button to display the **Enter/Exit** report.



Fraser River Inbound and Outbound Traffic
7/23/2016 4:45 AM - 7/23/2016 4:45 PM [7/23/2016 11:45 AM UTC - 7/23/2016 11:45 PM UTC]

Line 1 - Arrival

Enter Time	Exit Time	Name	MMSI	IMO	Call Sign	Type	Destination	ETA
7/23/2016 5:12 AM	7/23/2016 3:52 PM	COMET ACE	351757000	9182356	H3AM	Cargo ship	US TIW	7/24/2016 4:00:00 AM
7/23/2016 2:06 PM		DAIWAN KALON	374547000	9709324	HOES	Cargo ship	CA FRR	7/23/2016 4:00:00 PM

Line 1 - Departure

Enter Time	Exit Time	Name	MMSI	IMO	Call Sign	Type	Destination	ETA
7/23/2016 5:12 AM	7/23/2016 3:52 PM	COMET ACE	351757000	9182356	H3AM	Cargo ship	US TIW	7/24/2016 4:00:00 AM

Line 2 - Arrival

No Data Available

Line 2 - Departure

No Data Available

Line 3 - Arrival

Enter Time	Exit Time	Name	MMSI	IMO	Call Sign	Type	Destination	ETA
7/23/2016 4:56 AM	7/23/2016 4:06 PM	COMET ACE	351757000	9182356	H3AM	Cargo ship	US TIW	7/24/2016 4:00:00 AM
7/23/2016 1:46 PM		DAIWAN KALON	374547000	9709324	HOES	Cargo ship	CA FRR	7/23/2016 4:00:00 PM
7/23/2016 3:06 PM		PRINCESS SUPERIOR	316003289	7343669	CZ4348	Cargo ship	TILBURY	
7/23/2016 4:06 PM		CARRIER PRINCESS	316003656	7306647	CZ3582	Cargo ship	NANAIMO	

Line 3 - Departure

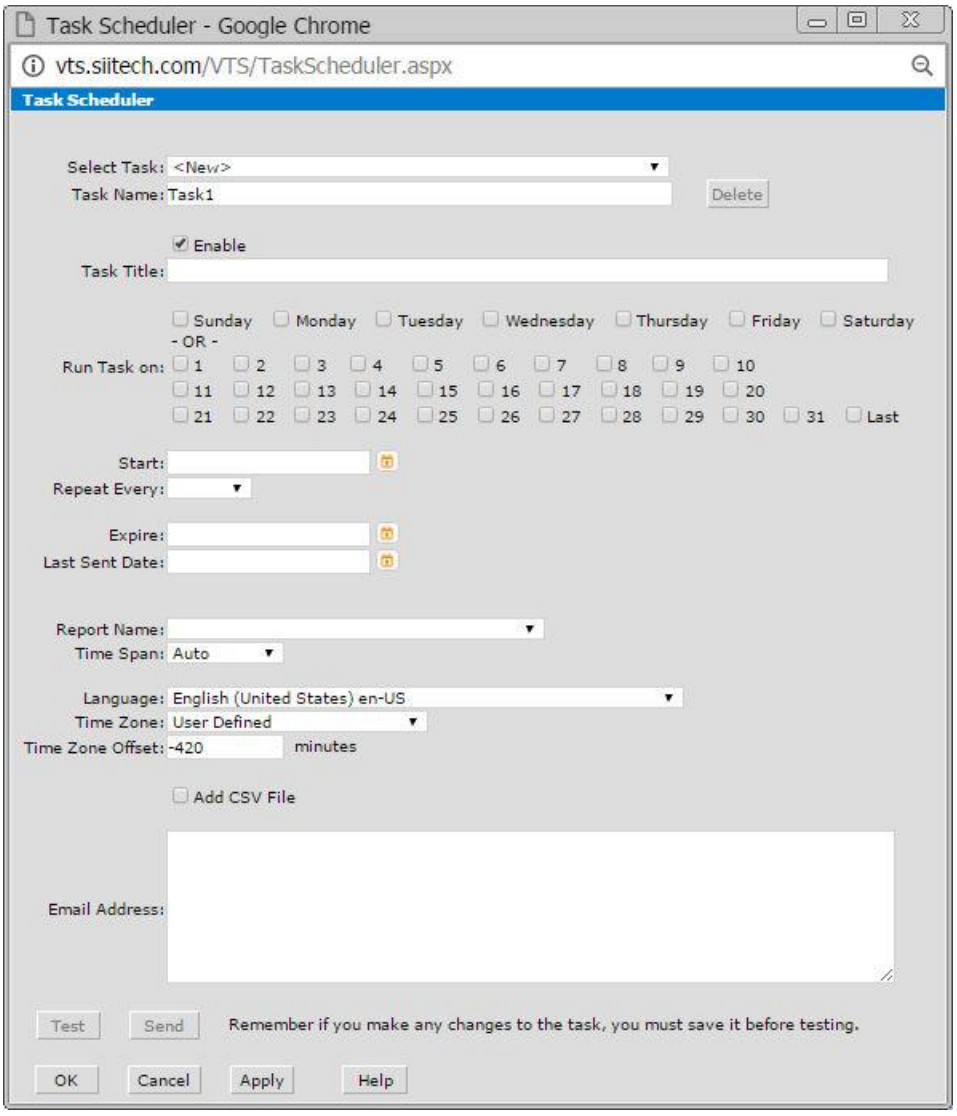
Enter Time	Exit Time	Name	MMSI	IMO	Call Sign	Type	Destination	ETA
	7/23/2016 4:46 AM	CARRIER PRINCESS	316003656	7306647	CZ3582	Cargo ship	NANAIMO	
7/23/2016 4:56 AM	7/23/2016 4:06 PM	COMET ACE	351757000	9182356	H3AM	Cargo ship	US TIW	7/24/2016 4:00:00 AM

Task Scheduling

Task Scheduler

The **Task Scheduler** enables users to schedule automatic report execution.

Click the **Task Scheduler** button in the toolbar to open the **Task Scheduler** window.



Select Task. Select an existing task or create a new task.

Task Name. Display and edit a task name (by default the program uses "TaskX" for every new task created, where X is the first available number).

Delete. Delete any selected report.

Task Title. Enter the task title. Task title will be printed at the beginning of the document.

Enable. Check this box to enable the task.

Run Task on. Select either day(s) of the week or day(s) of the month.

Start. Type your desired starting date and time (e.g. MM/DD/YYYY 12:34 PM) or use the drop-down calendar and hour/minute sliding bars instead.

Repeat Every. Select a repeat interval time from the drop-down list (1, 2, 3, 4, 6, or 12 hours).

Expire. Enter the task expiration date.

Last Sent Date. Use this field only if you want to repeat an already executed task. Select the desired date and time for beginning the repetition of this task.

Report Name. Select the report name to be executed during this task.

Time Span. Select the time span, if it is required for report execution.

Language. Select the language for the selected report.

Time Zone. Select the time zone for the selected report.

Time Zone Offset. If you selected "User Defined" time zone, enter the time zone offset.

Add CSV File. Check this box if you want to receive a CSV file with the report data.

Email Address. Enter the email address(es) of the recipients of this report. Separate multiple addresses with a semicolon (;).

Test. Test the designed task.

Send. Test the task and email the result.

OK. Save changes and return to the main view.

Cancel. Cancel all changes and return to the main view.

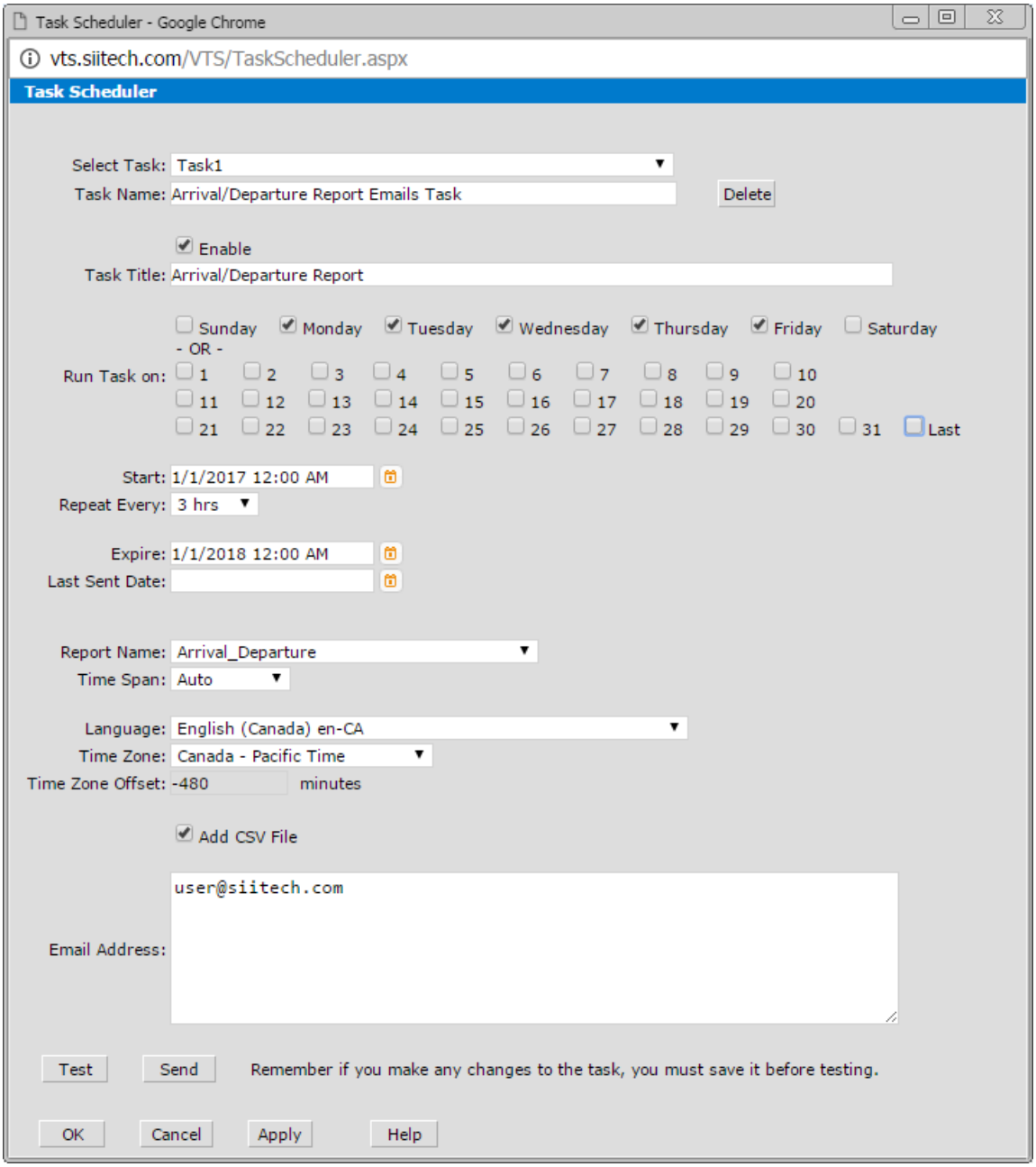
Apply. Save changes and keep the Task Scheduler window open.

Help. Open the Web VTS User's Guide.

Scheduled Report Emails

Click the **Task Scheduler** button in the toolbar to open the **Task Scheduler** window.

In this example, we will configure an "Arrival_Departure" report to be sent automatically via email every 3 hours from Monday to Friday during the year 2017.

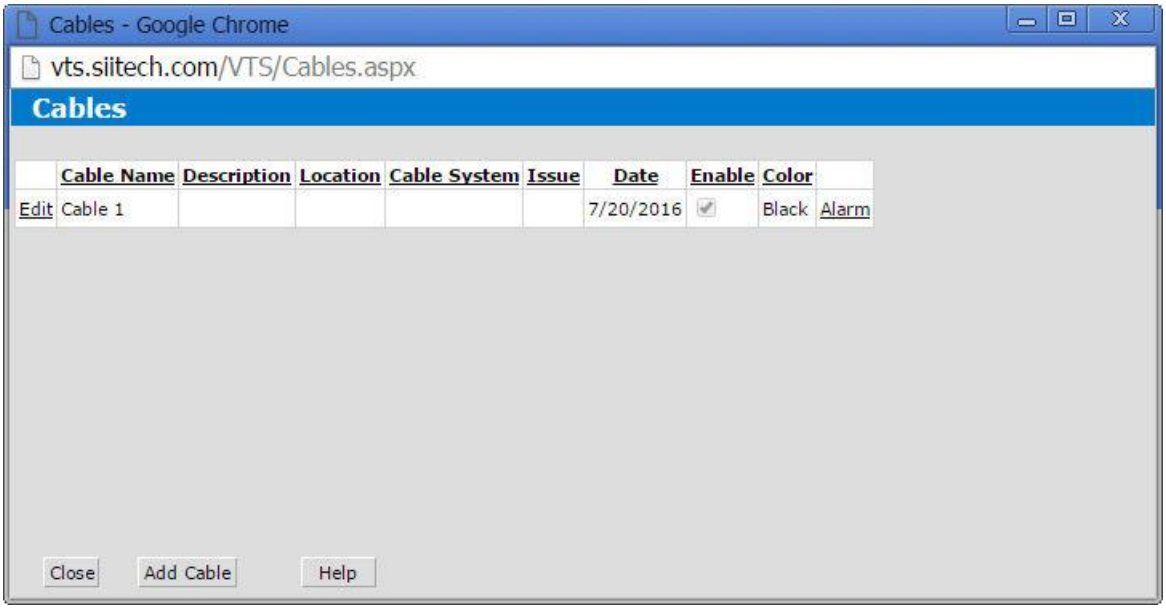

Task Scheduler - Google Chrome
vts.siitech.com/VTS/TaskScheduler.aspx
Task Scheduler
Select Task: Task1
Task Name: Arrival/Departure Report Emails Task
Delete
Enable
Task Title: Arrival/Departure Report
Sunday Monday Tuesday Wednesday Thursday Friday Saturday
- OR -
Run Task on: 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 Last
Start: 1/1/2017 12:00 AM
Repeat Every: 3 hrs
Expire: 1/1/2018 12:00 AM
Last Sent Date:
Report Name: Arrival_Departure
Time Span: Auto
Language: English (Canada) en-CA
Time Zone: Canada - Pacific Time
Time Zone Offset: -480 minutes
Add CSV File
Email Address: user@siitech.com
Test
Send
Remember if you make any changes to the task, you must save it before testing.
OK
Cancel
Apply
Help

Cable Monitoring

Cable Designer

The **Cable Designer** allows the user to enter submarine cable locations into the system.

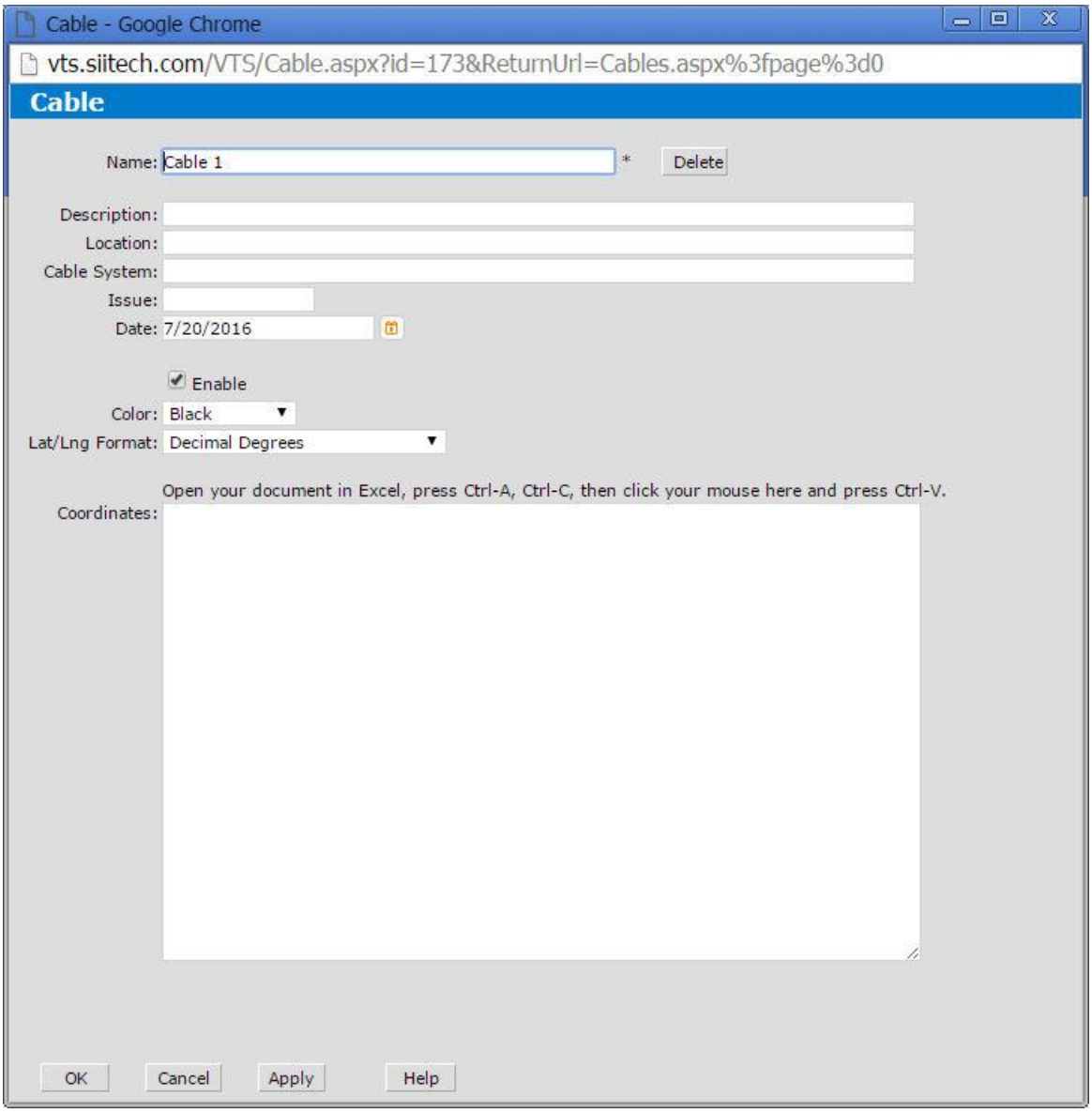
Click the **Cables** button in the toolbar to open the **Cable Designer** in a new window.



This form contains a list of existing cables. To edit an existing cable, click the **Edit** link (on the left side of the cable name). Click the **Add Cable** button to add a new cable. Click the **Alarm** link (on the far right side of the table) to create an alarm related to a specific cable.

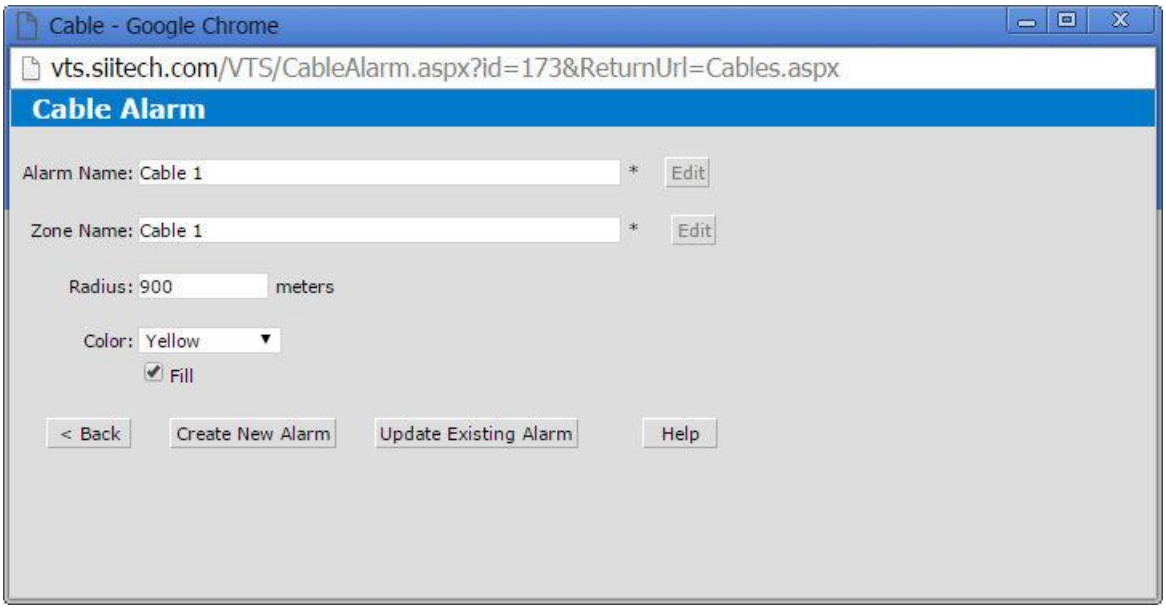
Cable Form

The **Cable** form allows the user to enter or edit cable data.



Cable Alarm Form

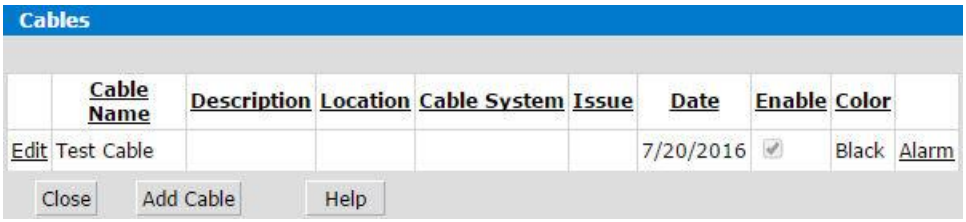
The **Cable Alarm** form allows the user to create alarms related to a particular cable.



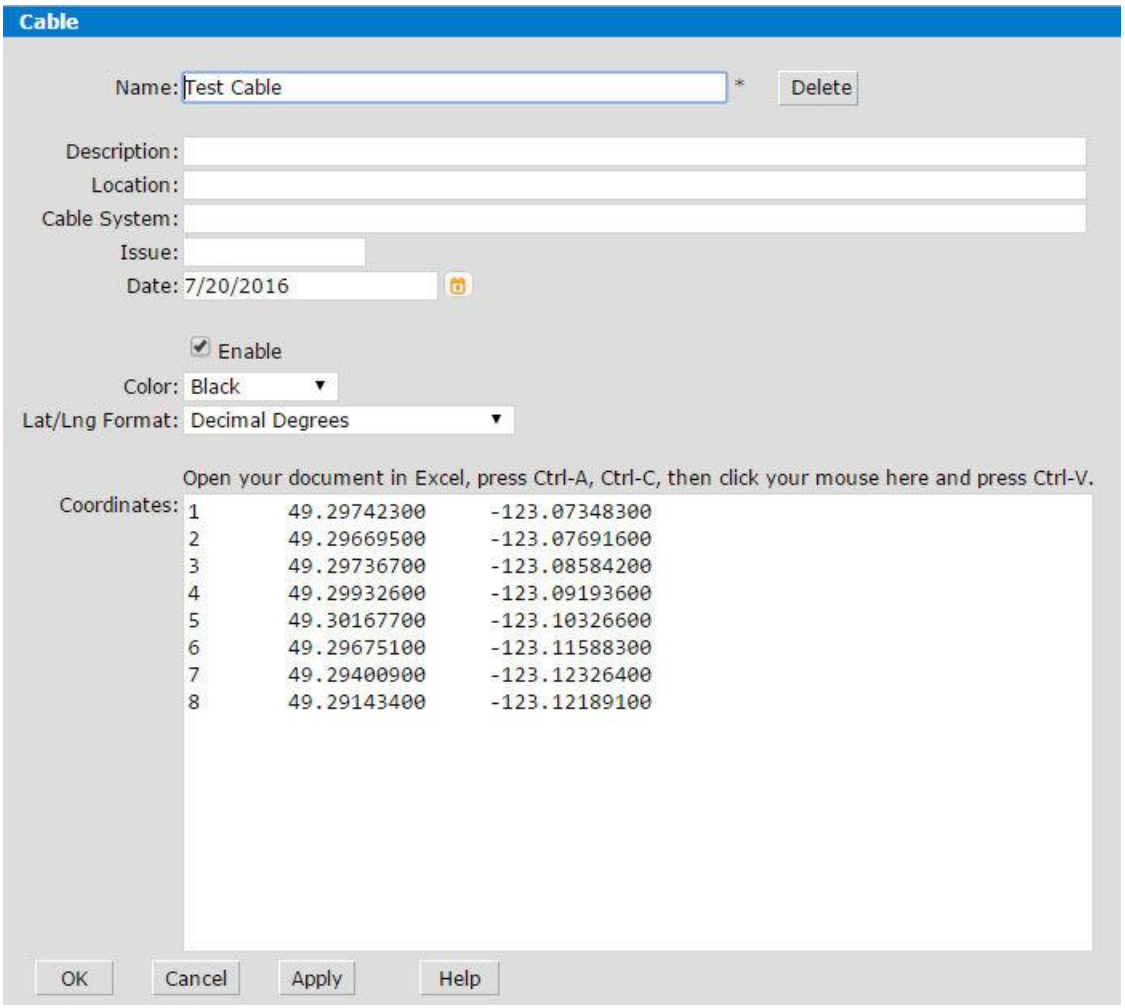
Cable Alarm

1. Click the **Cables** button in the toolbar to open the **Cable Designer** in a new window.

2. Click the **Add Cable** button to create a new cable. Click the **Edit** button to modify existing cable data.

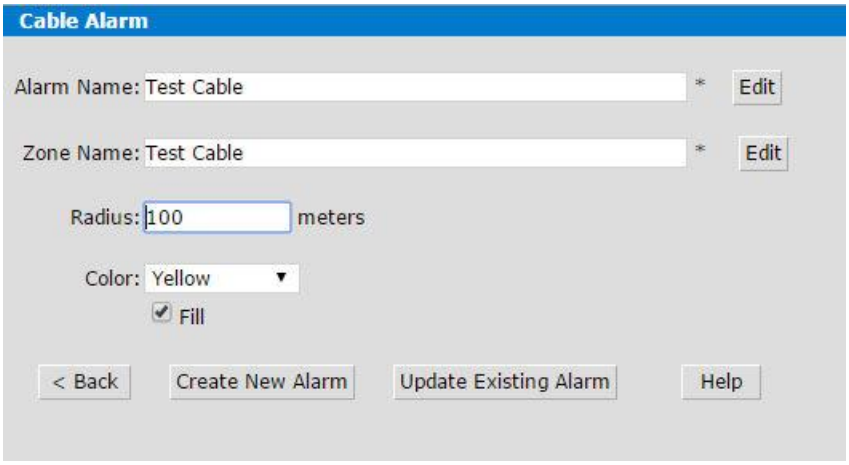


3. Enter/edit the cable data in the **Cable** window.



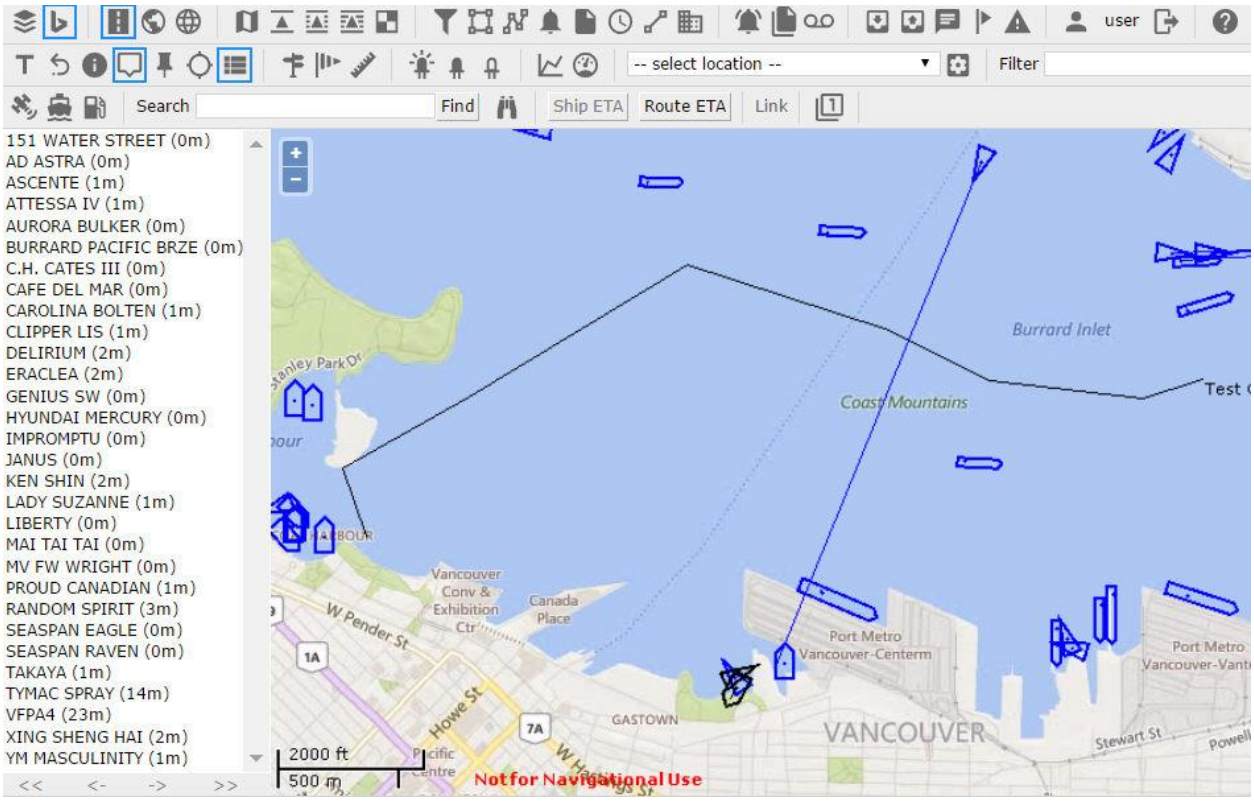
4. Click **OK** to return to the previous window. Click the **Alarm** link for your selected cable to open the **Cable Alarm** form.

5. Specify the size of the security zone in the **Radius** field and select its color from the **Color** drop-down list.

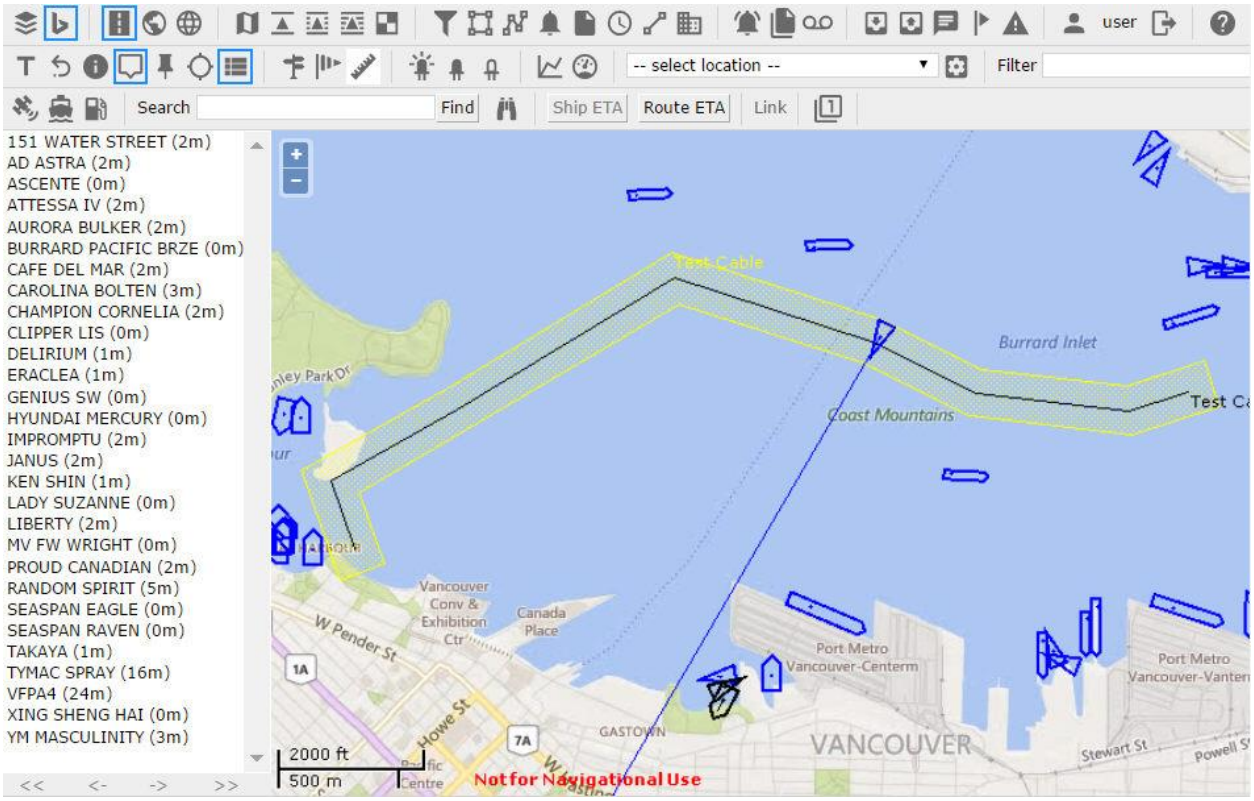


6. Click the **Create New Alarm** button to create the cable alarm. If you are editing an existing cable alarm, click the **Update Existing Alarm** button instead.

After creating the cable:



After creating the alarm zone:

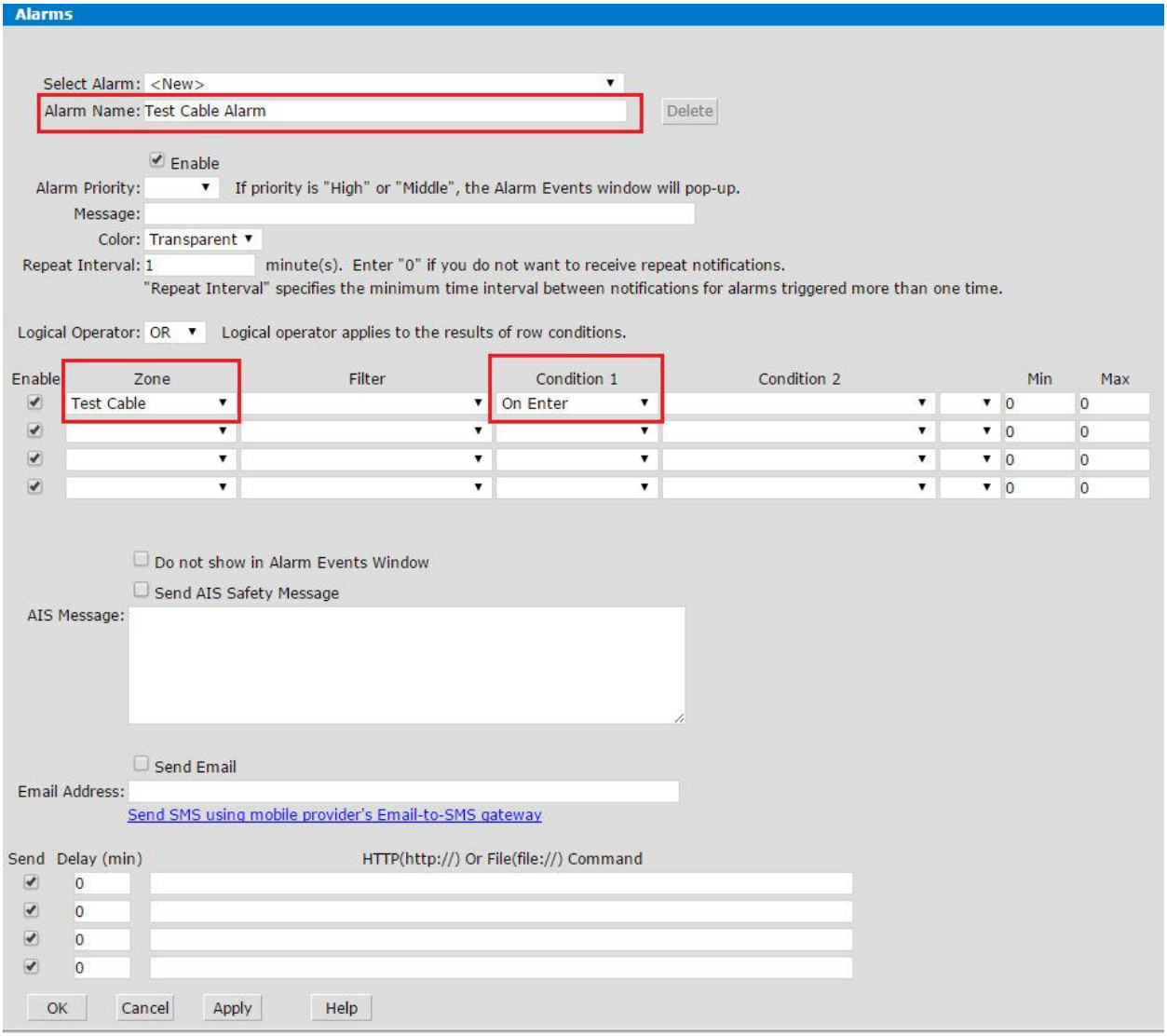


7. Click the **Alarms** button to open the **Alarm Designer.**

8. Enter new alarm name in the **Alarm Name** field.

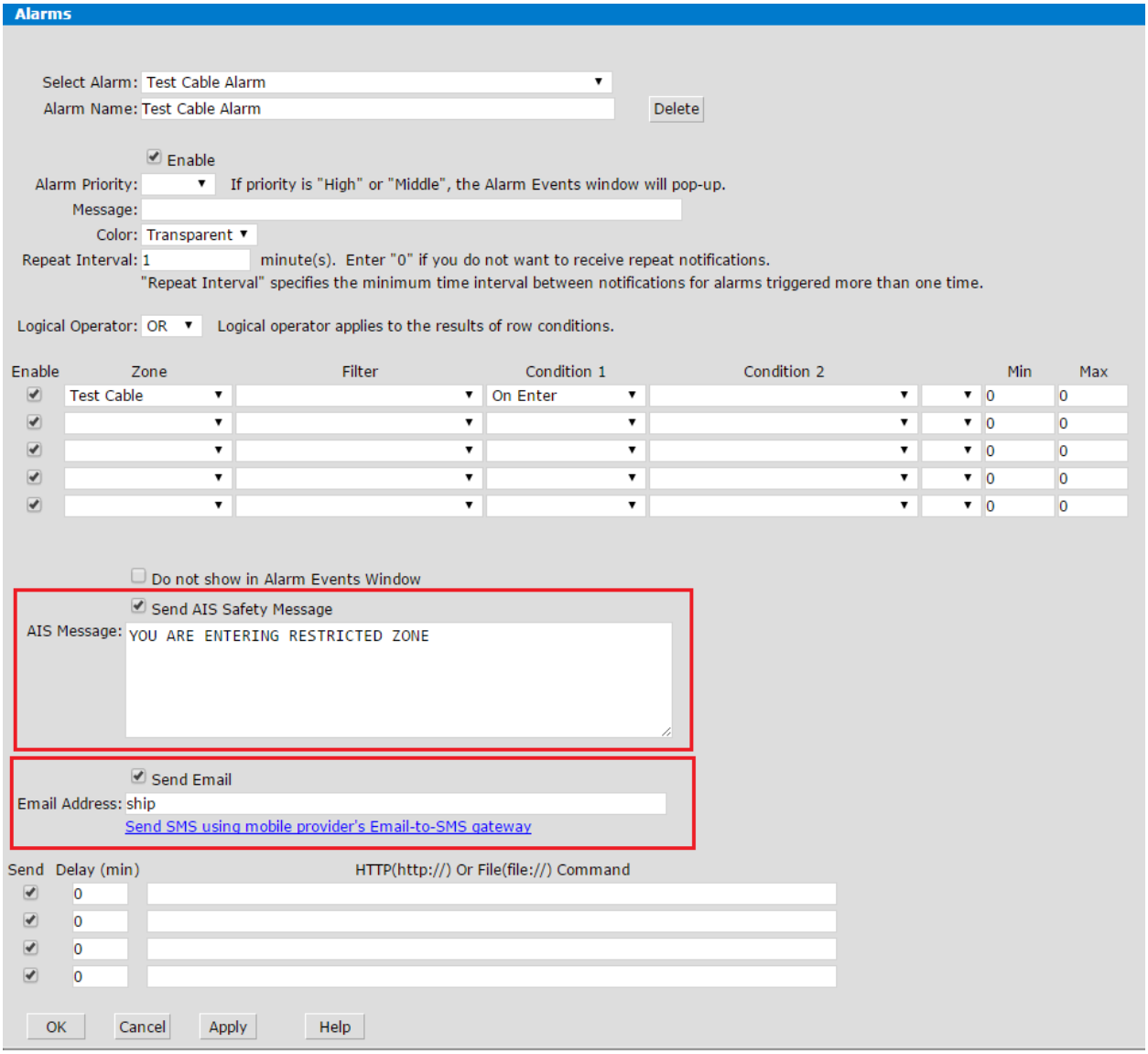
9. Select an existing zone for your cable alarm zone from the **Zone** drop-down list.

10. Select an alarm condition from the **Condition 1** drop-down list (e.g. On Enter, In Zone, etc.)



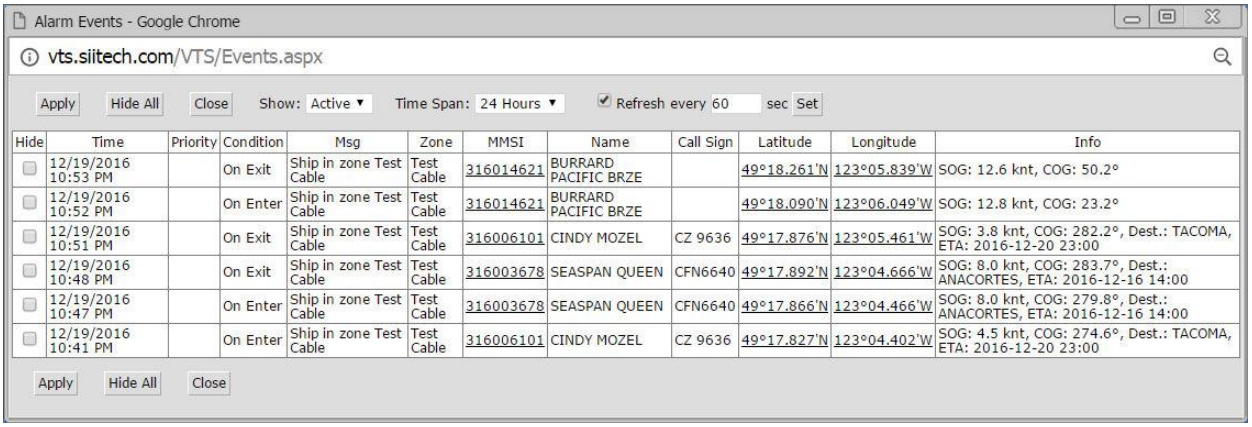
11. (Optional) To send an AIS safety message to the ship triggering your alarm, check the **Send AIS Safety Message** box and type your message into the **AIS Message** field.

12. (Optional) To send a copy of the AIS message via email, check the **Send Email** box and type the recipient's address into the **Email Address** field. *Note:* If you type 'ship' into the **Email Address** field, the system will automatically retrieve the ship's email address from Lloyd's Register of Ships.



13. Click **OK** to save your alarm.

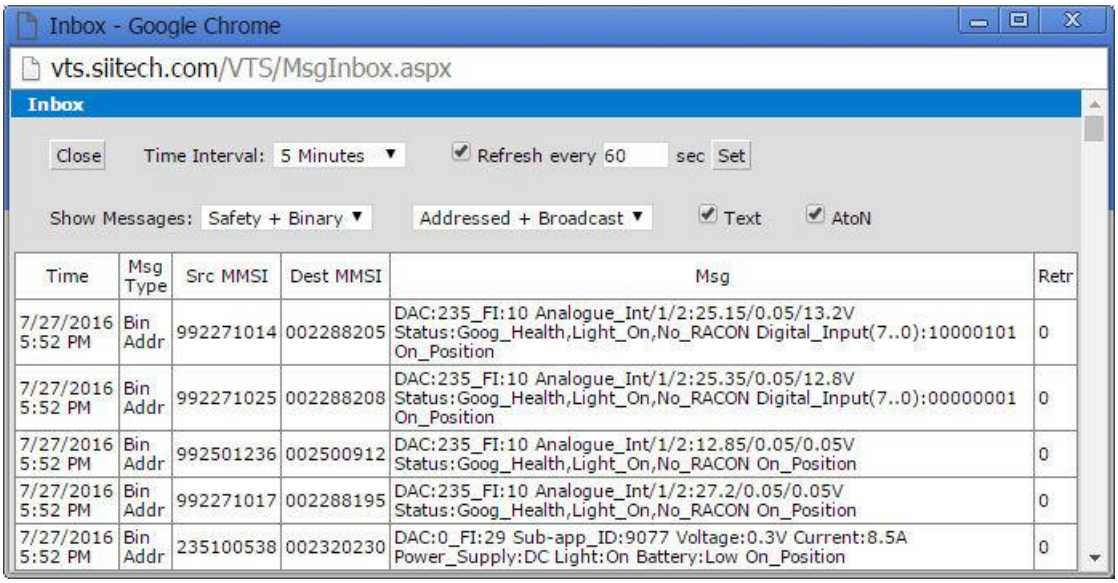
Alarm Events window showing alarms triggered as a result of setting up this cable:



AIS Messages

View received AIS messages

You can view all received AIS messages by clicking the **Inbox** button in the toolbar.



Time	Msg Type	Src MMSI	Dest MMSI	Msg	Retr
7/27/2016 5:52 PM	Bin Addr	992271014	002288205	DAC:235_FI:10 Analogue_Int/1/2:25.15/0.05/13.2V Status:Goog_Health,Light_On,No_RACON Digital_Input(7..0):10000101 On_Position	0
7/27/2016 5:52 PM	Bin Addr	992271025	002288208	DAC:235_FI:10 Analogue_Int/1/2:25.35/0.05/12.8V Status:Goog_Health,Light_On,No_RACON Digital_Input(7..0):00000001 On_Position	0
7/27/2016 5:52 PM	Bin Addr	992501236	002500912	DAC:235_FI:10 Analogue_Int/1/2:12.85/0.05/0.05V Status:Goog_Health,Light_On,No_RACON On_Position	0
7/27/2016 5:52 PM	Bin Addr	992271017	002288195	DAC:235_FI:10 Analogue_Int/1/2:27.2/0.05/0.05V Status:Goog_Health,Light_On,No_RACON On_Position	0
7/27/2016 5:52 PM	Bin Addr	235100538	002320230	DAC:0_FI:29 Sub-app_ID:9077 Voltage:0.3V Current:8.5A Power_Supply:DC Light:On Battery:Low On_Position	0

Close. Close your **Inbox** and return to the main view.

Time Interval. Select how far back in time you want your messages to be shown in your **Inbox**.

Refresh every ___ sec. Use this field to type how often you would like to check for new messages and click the **Set** button to apply your changes.

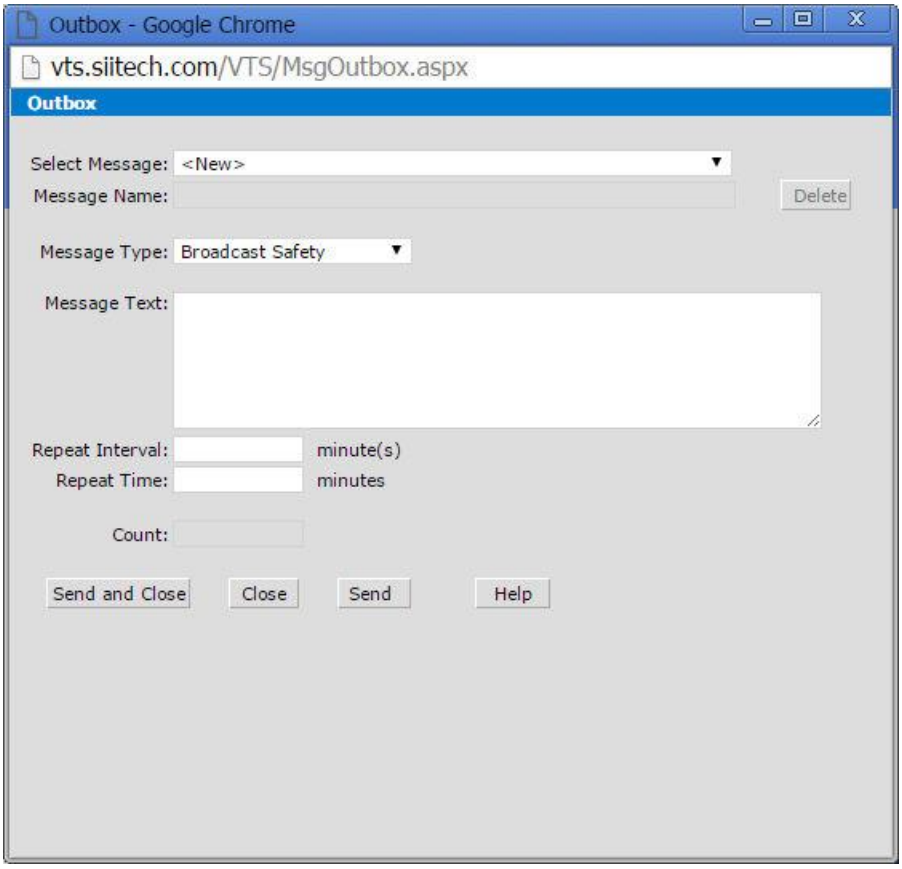
Show Messages. Filter messages to be displayed in your **Inbox** at any given time by selecting an option from the drop-down list.

Check the **Text** box to see text messages. Check the **AtoN** box to see Aid-to-Navigation messages.

Send AIS messages

To send AIS messages click the **Outbox** in the toolbar.

Note: This function only works with a connected AIS transponder.



Select Message. Choose any existing message from the drop-down list to modify or select <New> to compose a new message.

Message Name. Shows the name of your selected message.

Delete. Delete the selected message.

Message Type. Choose between Broadcast Safety message or Addressed Safety message from the drop-down list.

Addressed Safety message only: choose ship name (if known) from the **Select MMSI** drop-down list. If you do not know the ship's name, type its MMSI number in the **MMSI** field.

Message Text. Type your message here. Maximum length is 153 characters.

Repeat Interval. Determines how often your message will be sent out (e.g. typing "3" will re-send your message every 3 minutes).

Repeat Time. Total duration of sending out messages (e.g typing "15" will stop sending/re-sending any messages after 15 minutes have passed).

Count. Shows the number of sent messages.

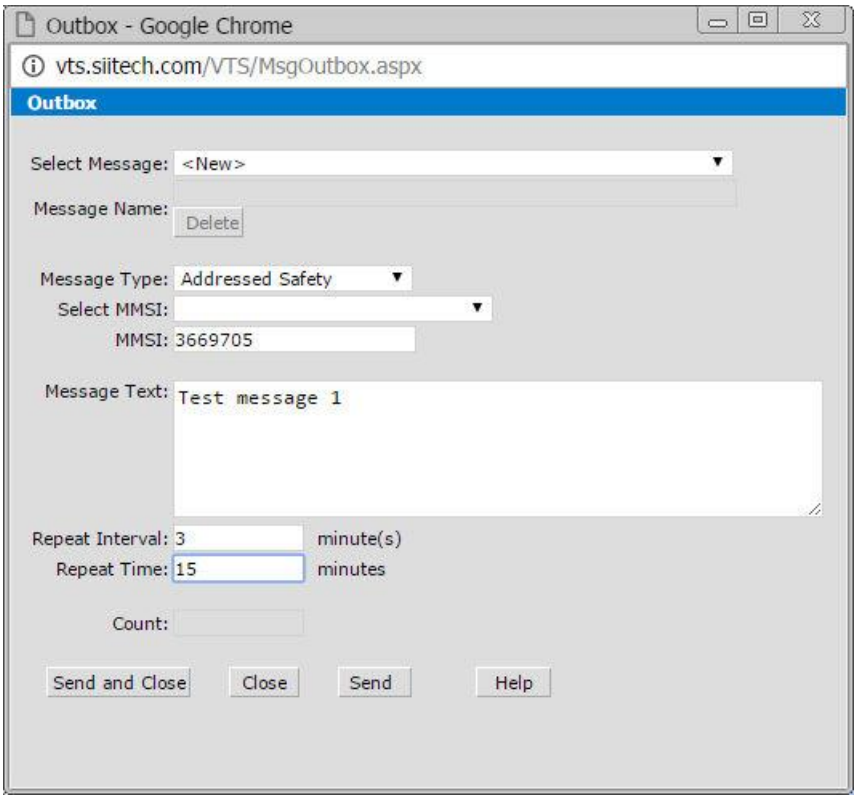
Send and Close. Send message, close Outbox, and return to the main view.

Close. Close Outbox without sending a message and return to the main view.

Send. Send message but leave Outbox window open.

Help. Open the Web VTS User's Guide.

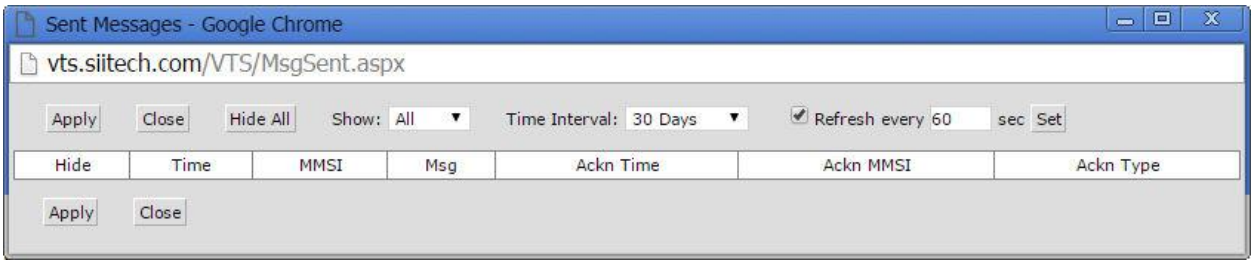
Sending addressed safety messages



- Click the **Outbox** button in the toolbar to open the **Outbox** window.
- Select "Addressed Safety" from the **Message Type** drop-down list.
- Select MMSI or name from the **Select MMSI** drop-down list. The MMSI number will appear in **MMSI** field. *Note*: You may also type the MMSI number in the **MMSI** field.
- Type "Test message 1" in the **Message Text** field.
- Type "3" in the **Repeat Interval** field.
- Type "15" in the **Repeat Time** field.
- Click the **Send and Close** button to send the message and close the window. *Note*: To confirm that your message has been sent, you can open the **Sent Messages** window by clicking the **Sent Messages** button .

View sent AIS messages

To view AIS messages you have sent, click the **Sent Messages** button in the toolbar.



Apply. Save changes but keep the **Sent Messages** window open.

Close. Close window and return to the main view.

Hide All. Hide all messages at once.

Show. Choose between "All" (all sent messages, including those you have hidden) or "Active" (only messages that you have not hidden).

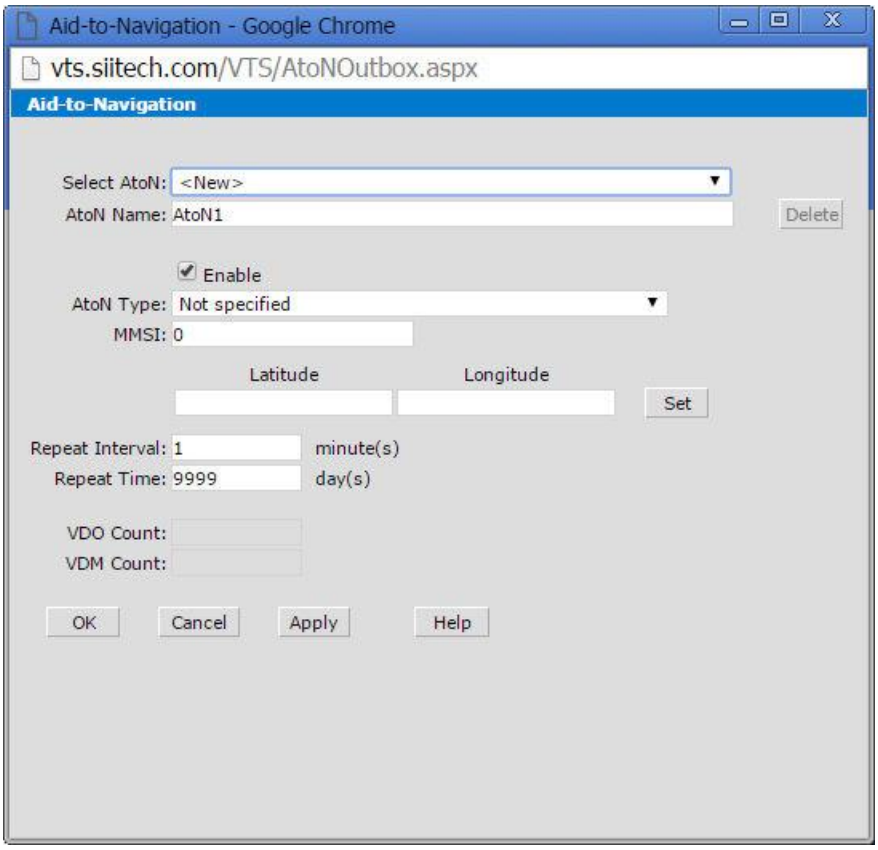
Time Interval. Select how far back in time you want your messages to be shown.

Refresh every ___ sec. Use this field to type how often you would like to check for recently sent messages and click the **Set** button to apply your changes.

Hide. Check the box beside the individual message(s) you would like to hide and click the **Apply** button.

Send virtual AtoN messages

Click the **Virtual AtoN** button in the toolbar to open the **Aid-to-Navigation** window.
Note: This function only works with a connected AIS base station.



Select AtoN. Select an existing AtoN from the drop-down list or create a new one.

AtoN Name. Display or edit AtoN name.

Delete. Delete the selected AtoN.

Enable. Check the box to enable the selected AtoN's transmission.

AtoN Type. Select the type of virtual AtoN from the drop-down list.

MMSI. Enter the MMSI number of the virtual AtoN.

Latitude and Longitude. Enter the coordinates of the virtual AtoN or click the **Set** button to locate it on the map.

Repeat Interval. Determines how often your message will be repeated (e.g. typing "3" will broadcast your message every 3 minutes).

Repeat Time. Total duration of broadcasting time (e.g typing "15" will stop broadcasting messages after 15 days have passed).

VDO Count. Shows the number of sent AtoN messages.

VDM Count. Shows the number of forwarded AtoN messages.

OK. Save changes and return to the main view.

Cancel. Cancel all changes and return to the main view.

Apply. Save changes and keep the Aid-to-Navigation window open.

Help. Open the Web VTS User's Guide.

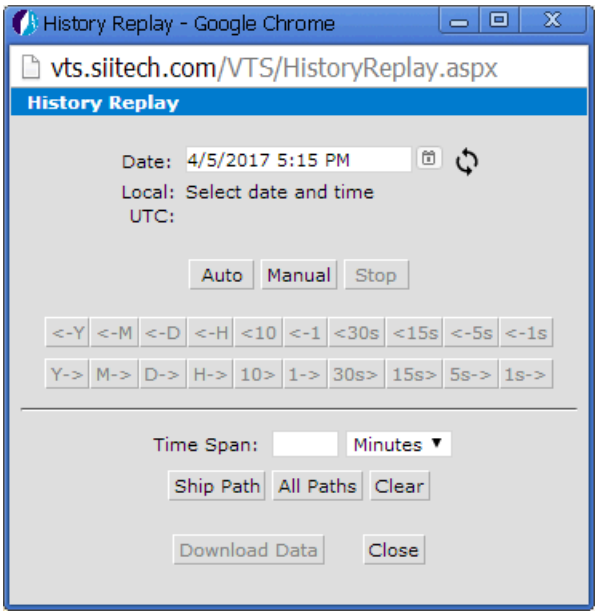
History Replay and Data

History Replay

The History Replay features:

- Replay a ship's trip step-by-step in predefined time intervals (e.g. investigating an accident by replaying the ship's movements on a minute-by-minute basis).
- Display one ship's entire trip during a selected time interval.
- Display trips of all ships in the area determined by your current view.
- Download trip data for one or several ships in a specified time interval.

Click **History Replay** in the toolbar to open the History Replay in a new window.



Date. Type your desired starting date and time (in your local format) or use the drop-down calendar and hour/minute sliding bars instead. Click to automatically input the current time.

Auto. Start replaying historic AIS data; automatically update the screen every minute.

Manual. Use the upper row of buttons to rewind through historic AIS data in predefined increments. Use the lower row of buttons to fast forward through historic AIS data in predefined increments (1sec, 5sec, 15sec, 30sec; 1min, 10min; 1hr; 1day; 1mo; 1yr.).

Stop. Turn History Replay off.

Close. Turn History Replay off and close the window.

Time Span. Choose a time span for showing the ship's path.

Ship Path. Draw the path for a selected ship within a specified period of time. *Note*: You must select a ship prior to drawing a path.

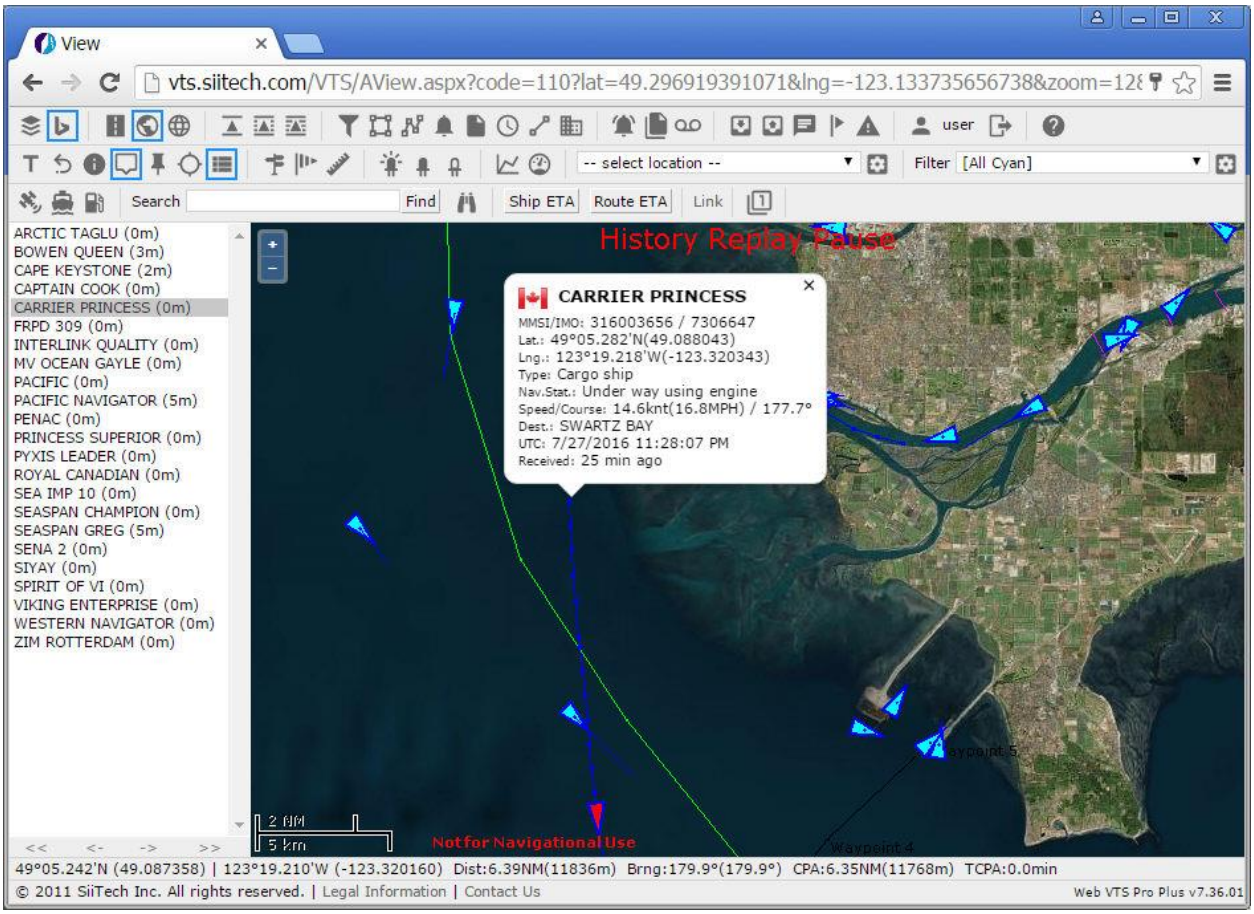
All Paths. Draw the paths of all ships in the area determined by your current view within a specified period of time.

Download Data. Download trip data in CSV format for the path(s) drawn on your screen.

Clear. Clear all path drawings from your current view.

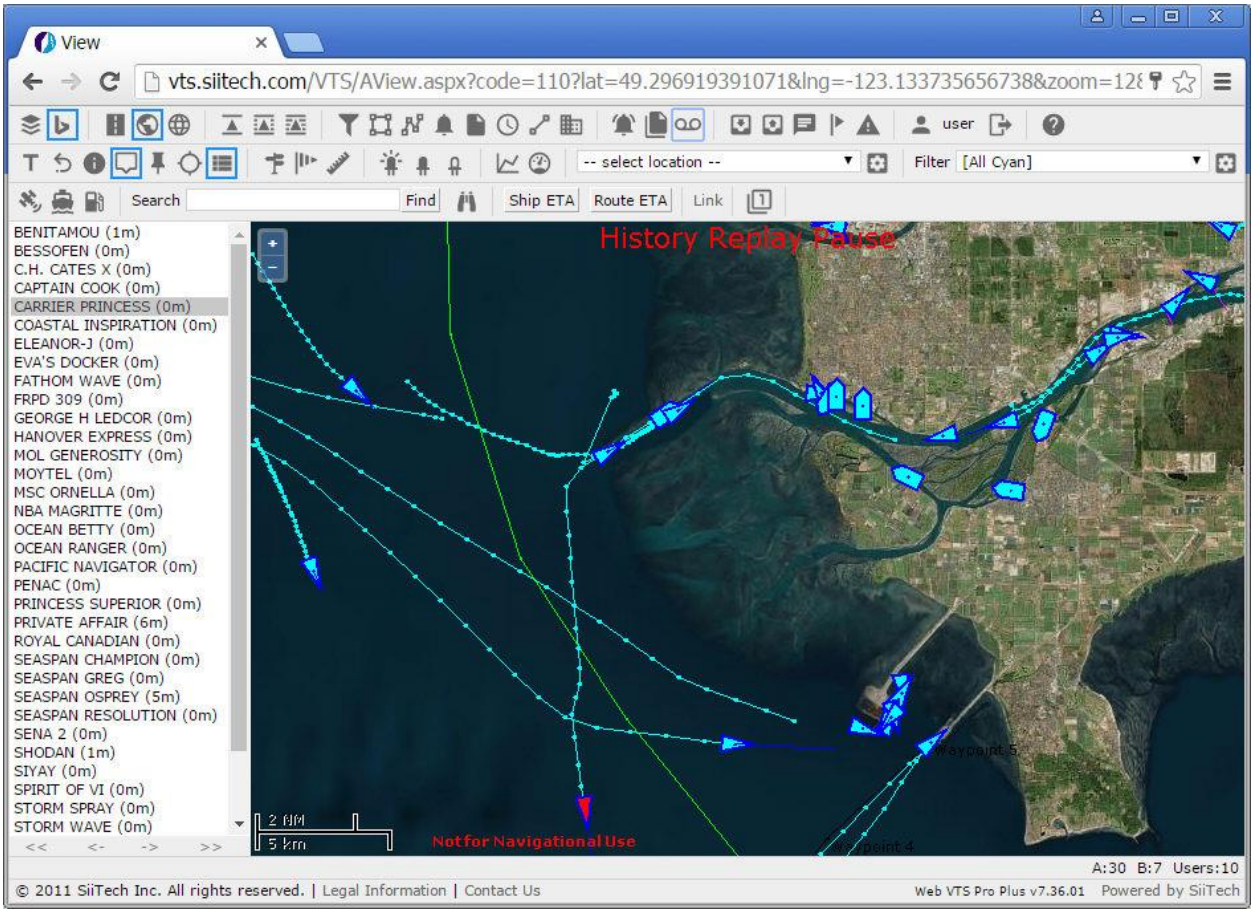
Draw ship paths or download trip data

- Click on the ship to select it.
- Click the **History Replay** button to open the **History Replay** window.
- In the **Date** field, enter the end date of the time interval.
- In the **Time Span** field, enter the desired length of the time interval.
- Click the **Ship Path** button. This will show the ship's path on the chart view.
- Click the **Download Data** button to download the path data onto your computer.
- To remove the ship's path from the chart view, click the **Clear** button.
- To close the window, click the **Close** button.



Draw all ship paths or download trip data

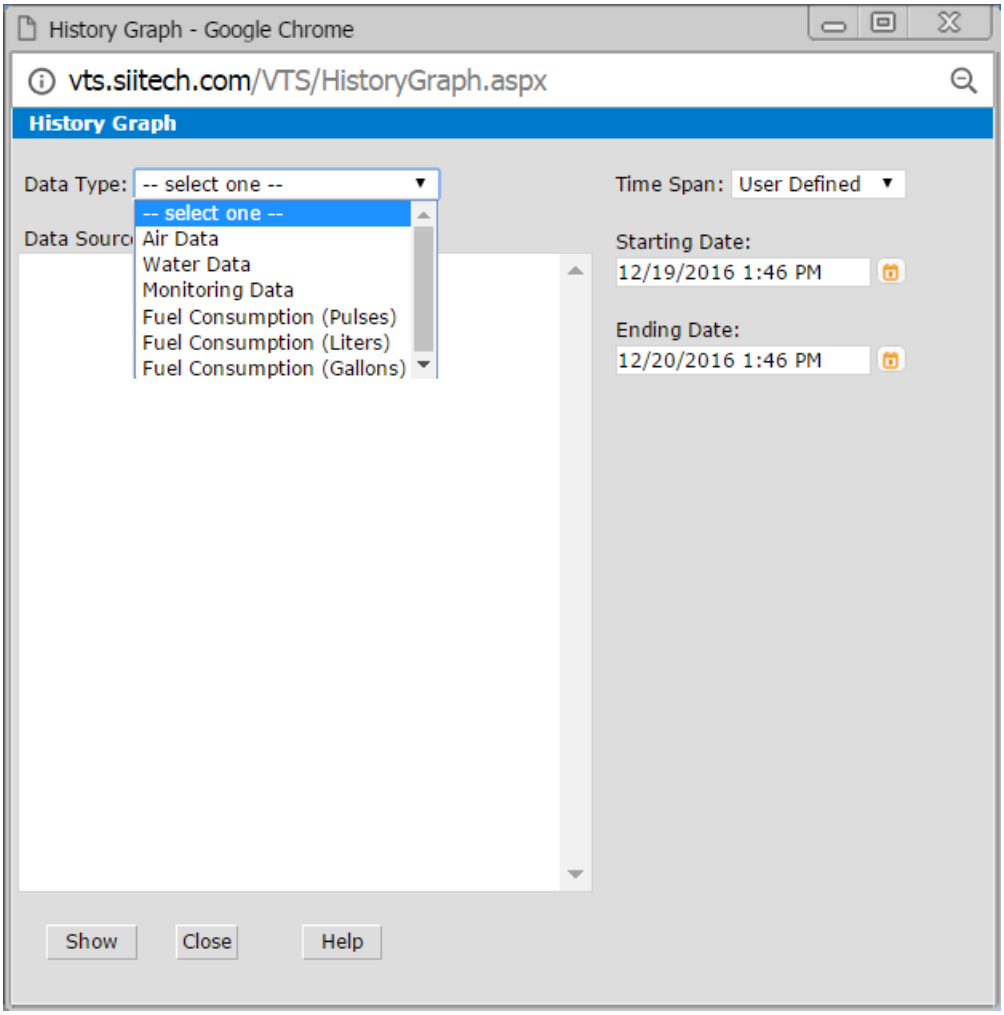
- Click the **History Replay** button to open the **History Replay** window.
- In the **Date** field, enter the end date of the time interval.
- In the **Time Span** field, enter the desired length of the time interval.
- Click the **All Paths** button. This will show paths for all ships on the chart view in the screen area.
- Click the **Download Data** button to download the path data onto your computer.
- To remove the ship's path from the chart view, click the **Clear** button.
- To close the window, click the **Close** button.



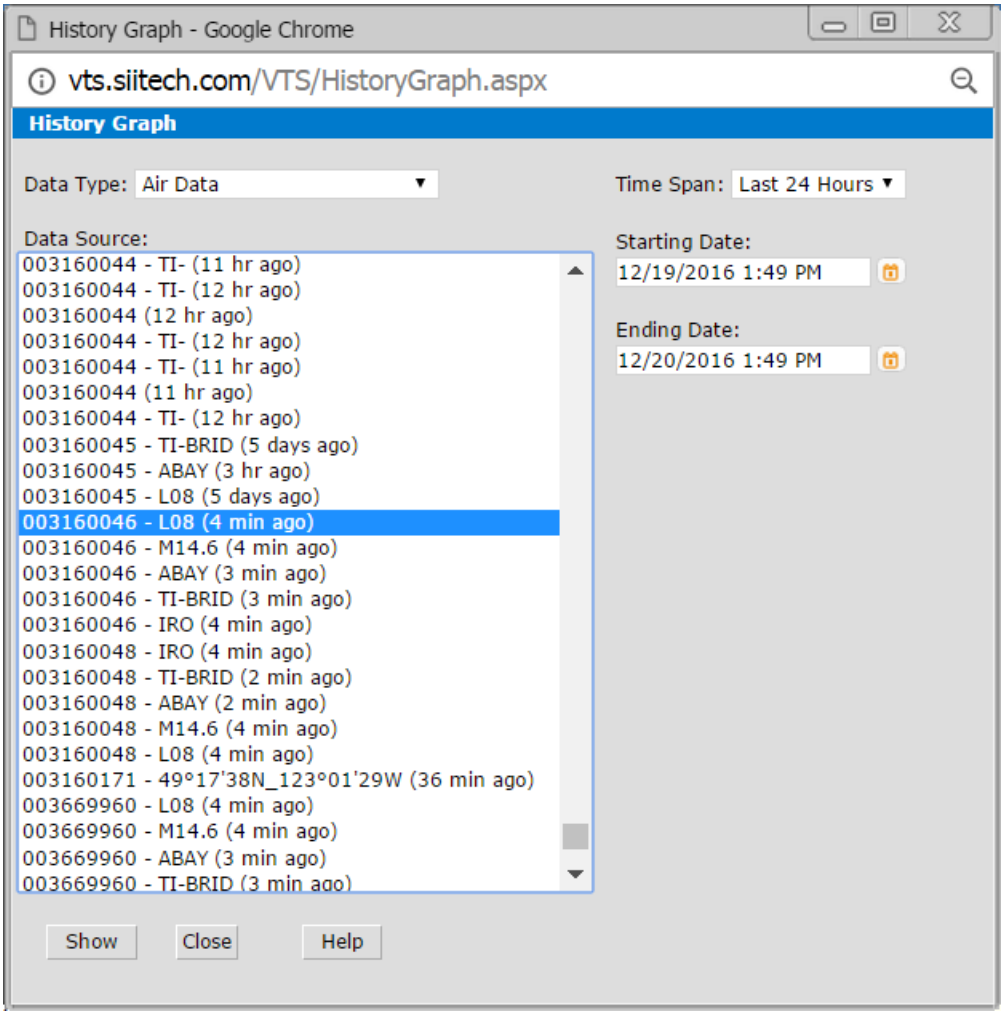
Historical Data Graphs

You may display AtoN data and fuel consumption data as a graph or download this data in .CVS format.

Click the **Show Historical Data Graphs and Download Historical Data** button to open the **History Graph** form.



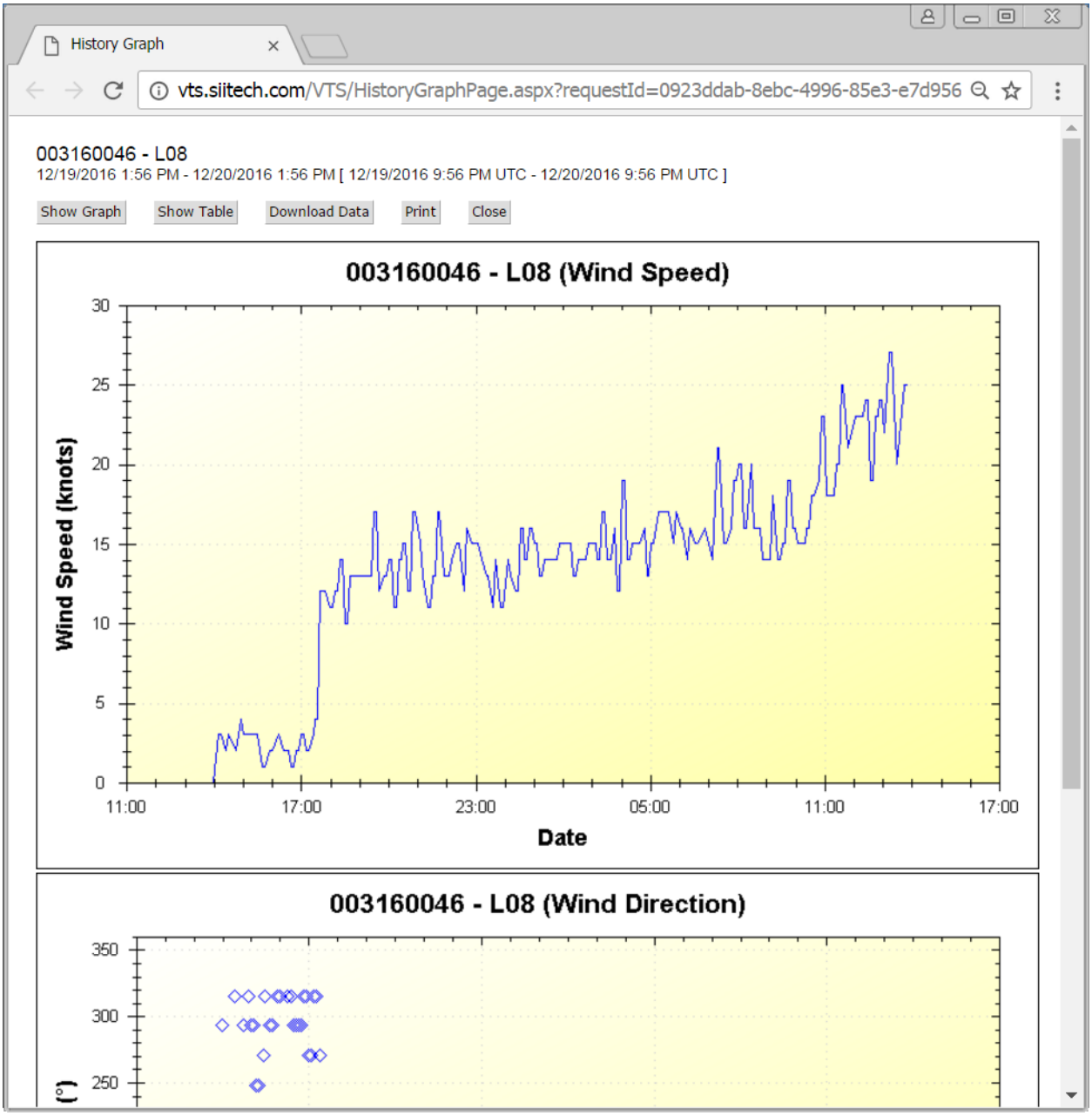
Select the type of data you want to see from the **Data Type** drop-down list.



In the **Data Source** list, select the source of data (e.g. choose the AtoN name).

To use a predefined time interval, select an option from the **Time Span** drop-down list. To specify your own time interval, select 'User Defined' under **Time Span**, and use the **Starting Date** and **Ending Date** fields to specify the time range.

Click the **Show** button to plot the graphs.



Click the **Download Data** button to download the data to your computer as a .CVS file.

If your ship is equipped with the SiiTech Fuel Consumption unit, you may use this form to monitor fuel consumption and to download fuel consumption data on your computer.

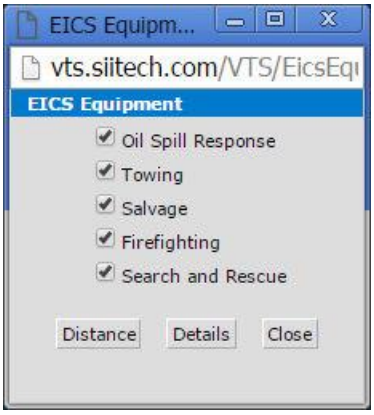
Emergency and Incidents

Emergency and Incident Command Support

This feature of Web VTS provides operators with the ability to find and filter rescue ships by oil spill response, towing, salvage, firefighting, or search and rescue equipment on board.

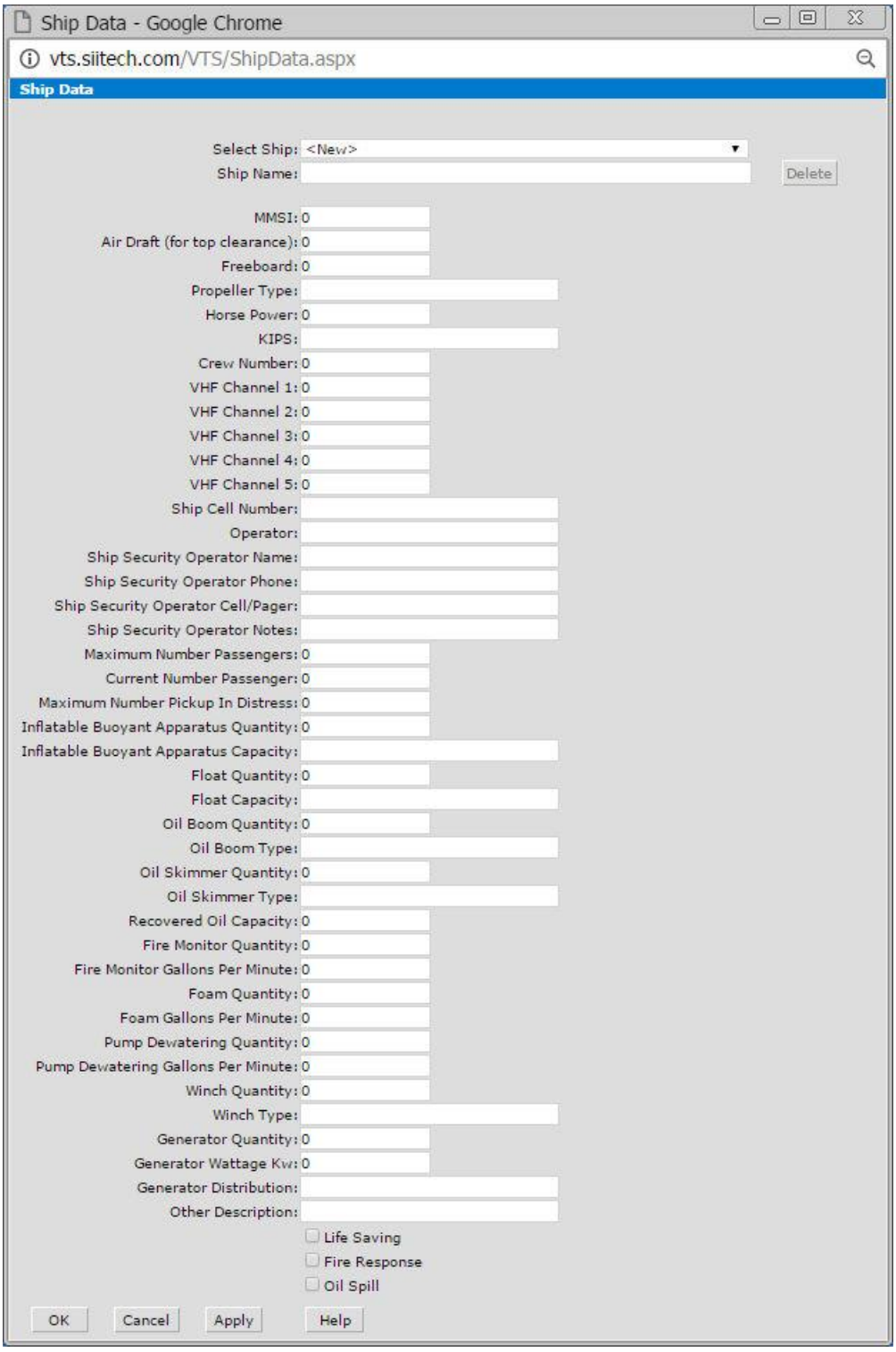
In the case of an emergency or incident, a Web VTS operator can quickly find the location of a ship with appropriate rescue equipment on board and make rescue action decisions.

Open the **Emergency and Incident Command Support (EICS) Equipment** window by clicking the **EICS** button ⚠ in the toolbar.



- **Fire Fighting: Select** this check box to monitor ships with fire fighting equipment on board. By default this check box is checked. All ships that have fire fighting equipment on board appear as a red circle surrounding the original triangle .
- **Life Saving:** Select this check box to monitor ships with life saving equipment on board. By default this check box is checked. All ships that have life saving equipment on board appear as a blue circle surrounding the original triangle.
- **Oil Spill Response:** Select this check box to monitor ships with oil spill response equipment on board. By default this check box is checked. All ships that have oil spill response equipment on board appear as a blue circle surrounding the original triangle.

To be able to display what equipment the ship has on board, left-click on any circle and the **Ship Data** panel should appear.

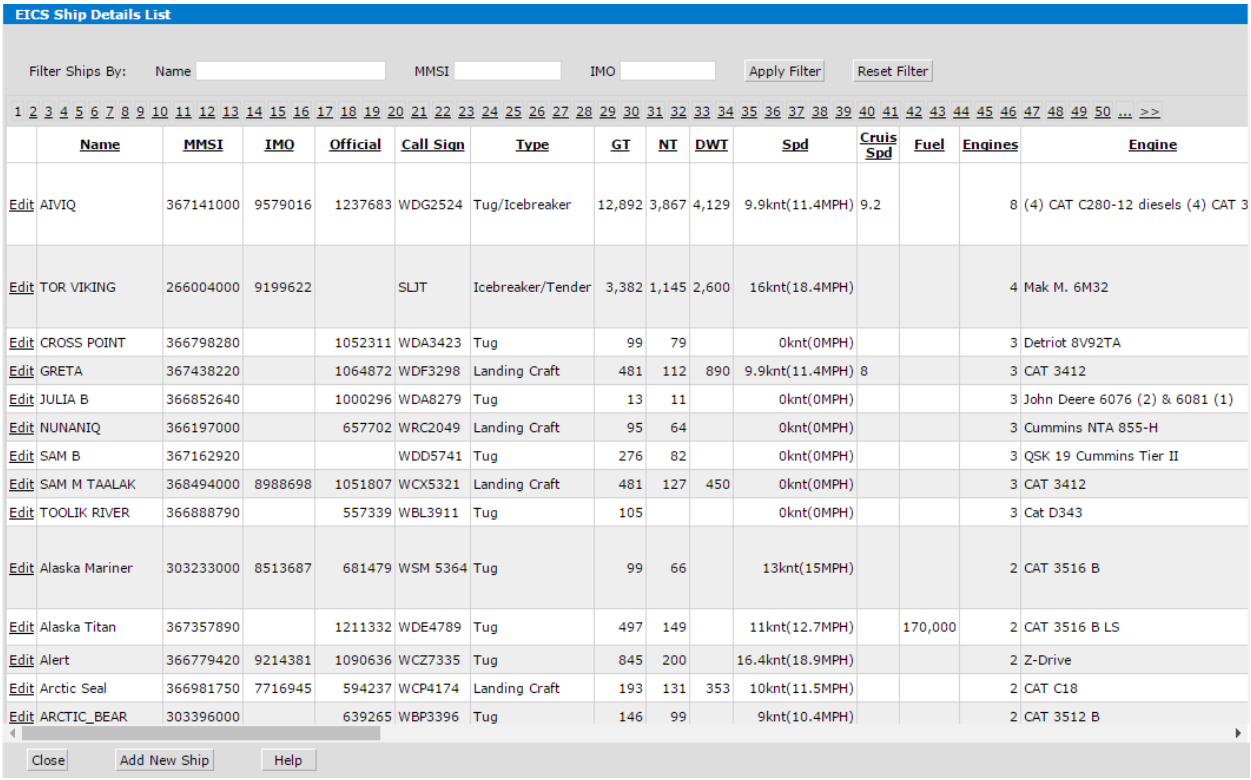


Note: Only authorized users are able to enter, edit, or delete EICS data through this pop-up window. Only the administrator of the system can assign users the right to modify this information.

EICS Ship Details List

Click the **EICS Ship Details** button ▲ in the toolbar to open the **EICS Ship Details List** window.

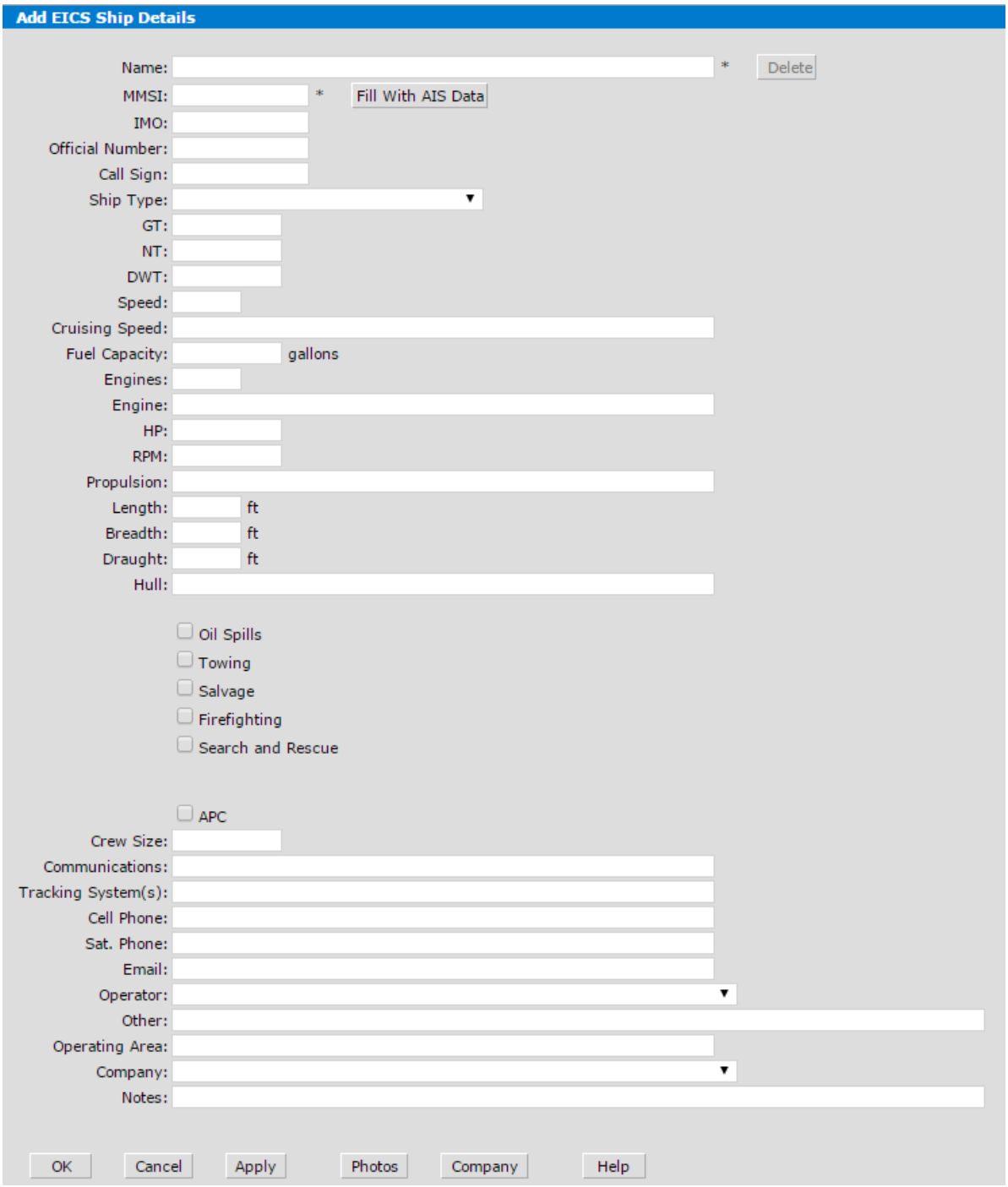
In the **EICS Ship Details List** window, you may view EICS technical data about any ship in the database. This information is manually entered into the system by the administrator or user(s).



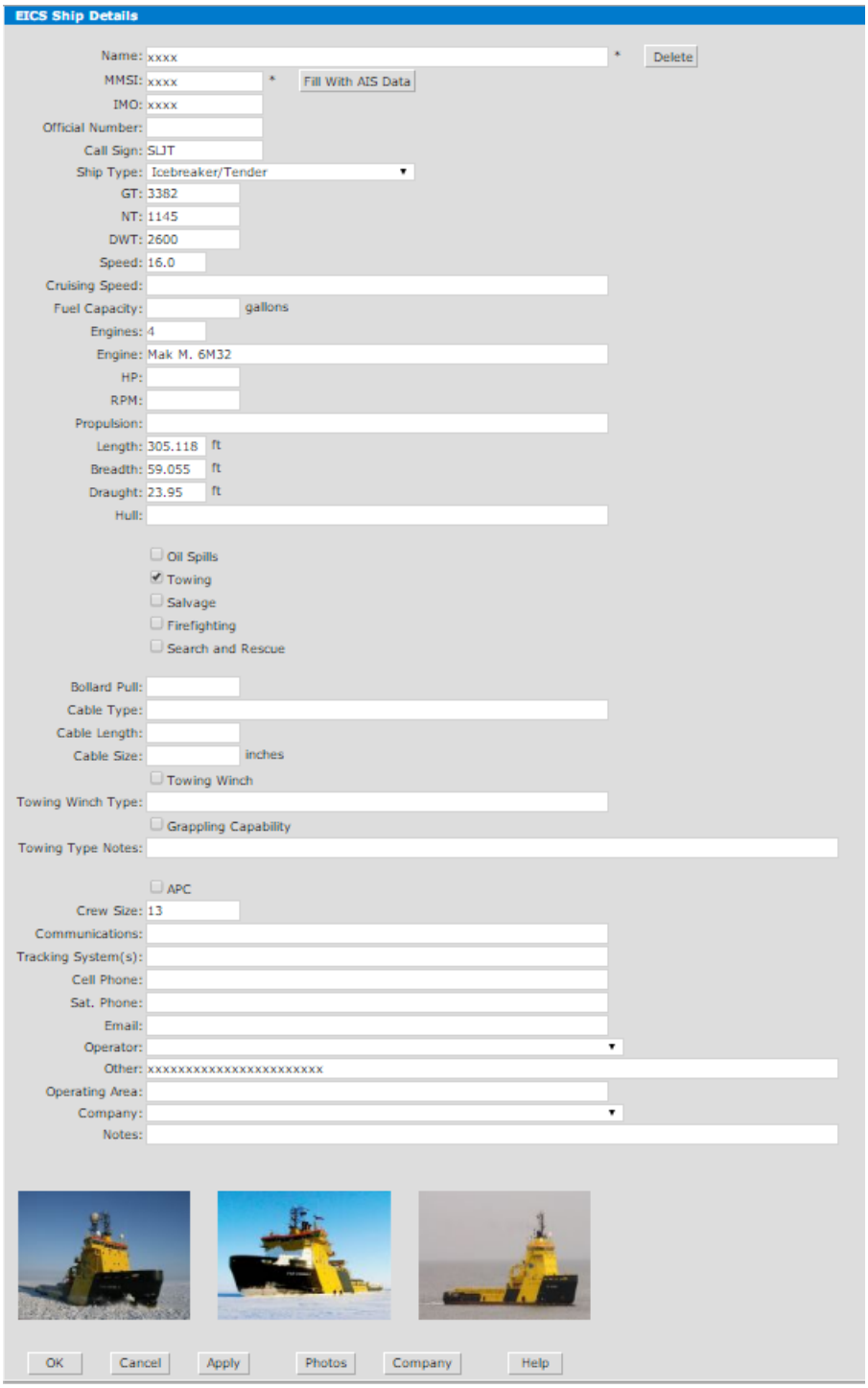
	Name	MMSI	IMO	Official	Call Sign	Type	GT	NT	DWT	Spd	Cruis Spd	Fuel	Engines	Engine
Edit	AIVIQ	367141000	9579016	1237683	WDG2524	Tug/Icebreaker	12,892	3,867	4,129	9.9knt(11.4MPH)	9.2		8	(4) CAT C280-12 diesels (4) CAT 3
Edit	TOR VIKING	266004000	9199622		SLJT	Icebreaker/Tender	3,382	1,145	2,600	16knt(18.4MPH)			4	Mak M. 6M32
Edit	CROSS POINT	366798280		1052311	WDA3423	Tug	99	79		0knt(0MPH)			3	Detriot 8V92TA
Edit	GRETA	367438220		1064872	WDF3298	Landing Craft	481	112	890	9.9knt(11.4MPH)	8		3	CAT 3412
Edit	JULIA B	366852640		1000296	WDA8279	Tug	13	11		0knt(0MPH)			3	John Deere 6076 (2) & 6081 (1)
Edit	NUNANIQ	366197000		657702	WRC2049	Landing Craft	95	64		0knt(0MPH)			3	Cummins NTA 855-H
Edit	SAM B	367162920			WDD5741	Tug	276	82		0knt(0MPH)			3	QSK 19 Cummins Tier II
Edit	SAM M TAALAK	368494000	8988698	1051807	WCX5321	Landing Craft	481	127	450	0knt(0MPH)			3	CAT 3412
Edit	TOOLIK RIVER	366888790		557339	WBL3911	Tug	105			0knt(0MPH)			3	Cat D343
Edit	Alaska Mariner	303233000	8513687	681479	WSM 5364	Tug	99	66		13knt(15MPH)			2	CAT 3516 B
Edit	Alaska Titan	367357890		1211332	WDE4789	Tug	497	149		11knt(12.7MPH)		170,000	2	CAT 3516 B LS
Edit	Alert	366779420	9214381	1090636	WCZ7335	Tug	845	200		16.4knt(18.9MPH)			2	Z-Drive
Edit	Arctic Seal	366981750	7716945	594237	WCP4174	Landing Craft	193	131	353	10knt(11.5MPH)			2	CAT C18
Edit	ARCTIC_BEAR	303396000		639265	WBP3396	Tug	146	99		9knt(10.4MPH)			2	CAT 3512 B

Filter Ships By. Use the **Name, MMSI,** or **IMO** fields to list specific ships only. Type ship name or MMSI into the appropriate field and click the **Apply** button. *Note*: You may use only part of the name, MMSI number, or IMO number for the search.

Click the **Add New Ship** button at the bottom of the window to input a new ship into the list.



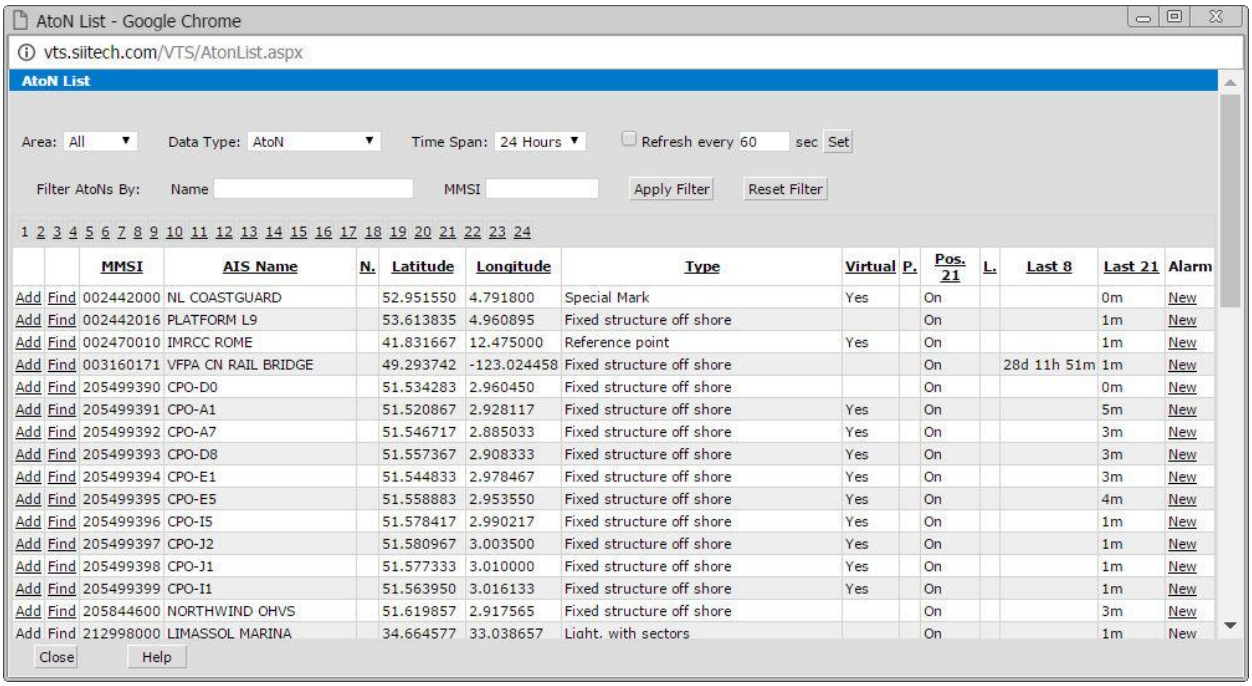
Click the **Edit** link in the first column of the table to go to the **EICS Ship Details** window.


EICS Ship Details
Name: xxxx *
Delete
MMSI: xxxx *
Fill With AIS Data
IMO: xxxx
Official Number:
Call Sign: SLJT
Ship Type: Icebreaker/Tender
GT: 3382
NT: 1145
DWT: 2600
Speed: 16.0
Cruising Speed:
Fuel Capacity: gallons
Engines: 4
Engine: Mak M. 6M32
HP:
RPM:
Propulsion:
Length: 305.118 ft
Breadth: 59.055 ft
Draught: 23.95 ft
Hull:
Oil Spills
Towing
Salvage
Firefighting
Search and Rescue
Bollard Pull:
Cable Type:
Cable Length:
Cable Size: inches
Towing Winch
Towing Winch Type:
Grappling Capability
Towing Type Notes:
APC
Crew Size: 13
Communications:
Tracking System(s):
Cell Phone:
Sat. Phone:
Email:
Operator:
Other: xxxxxxxxxxxxxxxxxxxxxxx
Operating Area:
Company:
Notes:
OK
Cancel
Apply
Photos
Company
Help

AtoN Monitoring

AtoN List

You can view all AtoN-related information by clicking **AtoN List** button in the toolbar.



		MMSI	AIS Name	N.	Latitude	Longitude	Type	Virtual	P.	Pos. 21	L.	Last 8	Last 21	Alarm
Add	Find	002442000	NL COASTGUARD		52.951550	4.791800	Special Mark	Yes		On			0m	New
Add	Find	002442016	PLATFORM L9		53.613835	4.960895	Fixed structure off shore			On			1m	New
Add	Find	002470010	IMRCC ROME		41.831667	12.475000	Reference point	Yes		On			1m	New
Add	Find	003160171	VFPA CN RAIL BRIDGE		49.293742	-123.024458	Fixed structure off shore			On		28d 11h 51m	1m	New
Add	Find	205499390	CPO-D0		51.534283	2.960450	Fixed structure off shore			On			0m	New
Add	Find	205499391	CPO-A1		51.520867	2.928117	Fixed structure off shore	Yes		On			5m	New
Add	Find	205499392	CPO-A7		51.546717	2.885033	Fixed structure off shore	Yes		On			3m	New
Add	Find	205499393	CPO-D8		51.557367	2.908333	Fixed structure off shore	Yes		On			3m	New
Add	Find	205499394	CPO-E1		51.544833	2.978467	Fixed structure off shore	Yes		On			3m	New
Add	Find	205499395	CPO-E5		51.558883	2.953550	Fixed structure off shore	Yes		On			4m	New
Add	Find	205499396	CPO-I5		51.578417	2.990217	Fixed structure off shore	Yes		On			1m	New
Add	Find	205499397	CPO-J2		51.580967	3.003500	Fixed structure off shore	Yes		On			1m	New
Add	Find	205499398	CPO-J1		51.577333	3.010000	Fixed structure off shore	Yes		On			1m	New
Add	Find	205499399	CPO-I1		51.563950	3.016133	Fixed structure off shore	Yes		On			1m	New
Add	Find	205844600	NORTHWIND OHVS		51.619857	2.917565	Fixed structure off shore			On			3m	New
Add	Find	212998000	LIMASSOL MARINA		34.664577	33.038657	Light, with sectors			On			1m	New

Area. Set the area of monitored data. Select "Screen" from the **Area** drop-down list to view AtoN information for the AtoNs which are visible in your current map view. Select "All" to view AtoN information for all AtoNs in the system.

Data Type. Set the type of monitored data. Select "AtoN" from the **Data Type** drop-down list to view general AtoN information. Select "Meteo Data" to view meteorological data sent from AtoNs. Select "Monitoring Data" to view data related to AtoN health and status.

Time Span. Set the time span of monitored data. Use the **Time Span** drop-down list to select how far back in time you want to view AtoN information.

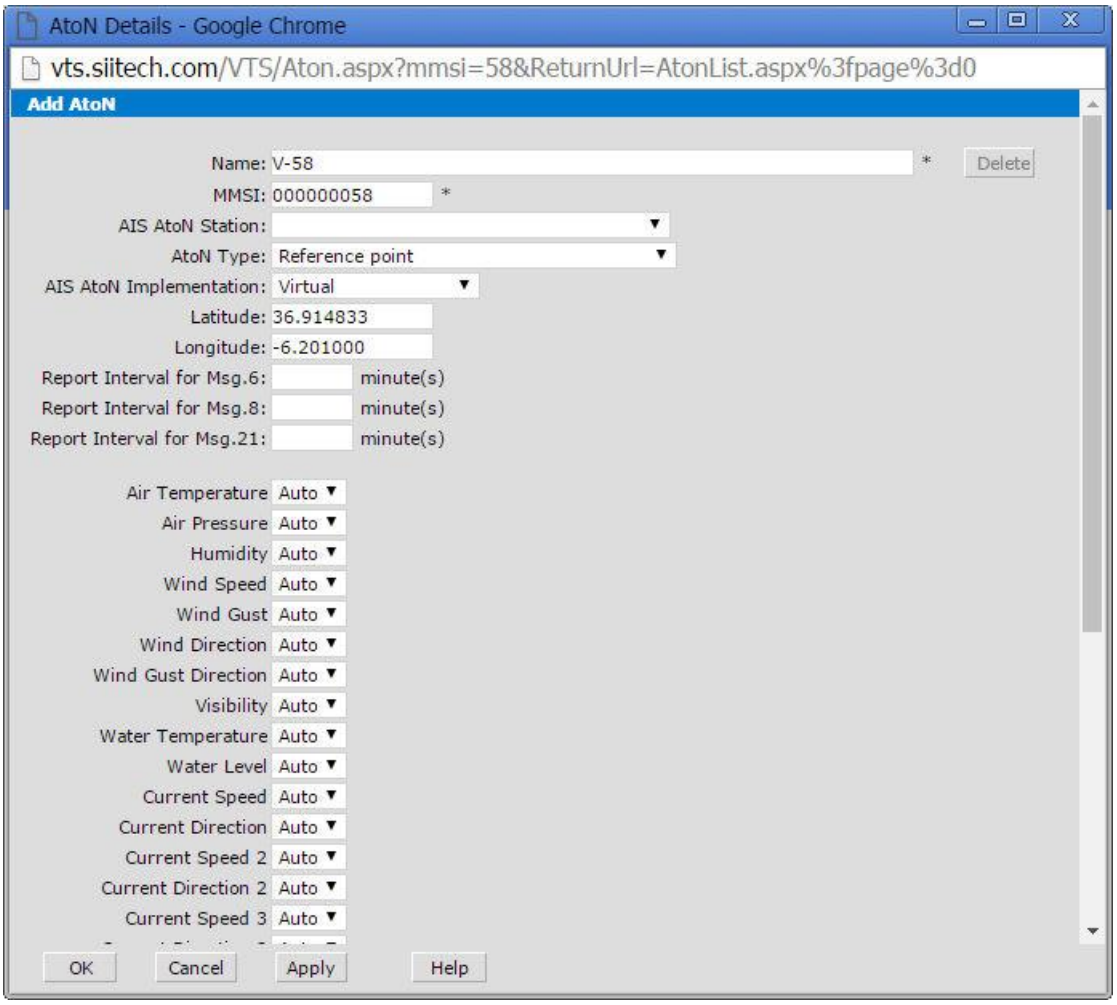
Refresh every ___ sec. Use this field to type how often you would like to check for recently sent messages and click the **Set** button to apply your changes.

Filter AtoNs By. Use the **Name** or **MMSI** fields to list specific AtoNs only. Type AtoN name or MMSI into the appropriate field and click the **Apply** button. *Note*: You may use only part of the name or MMSI number for the search.

Click the **Find** link (on the left side of AtoN's MMSI number) to center your desired AtoN within the current map view.

Add/Edit AtoN Details

Click the **Add** link to open the **AtoN Details** form and enter information for the selected AtoN.

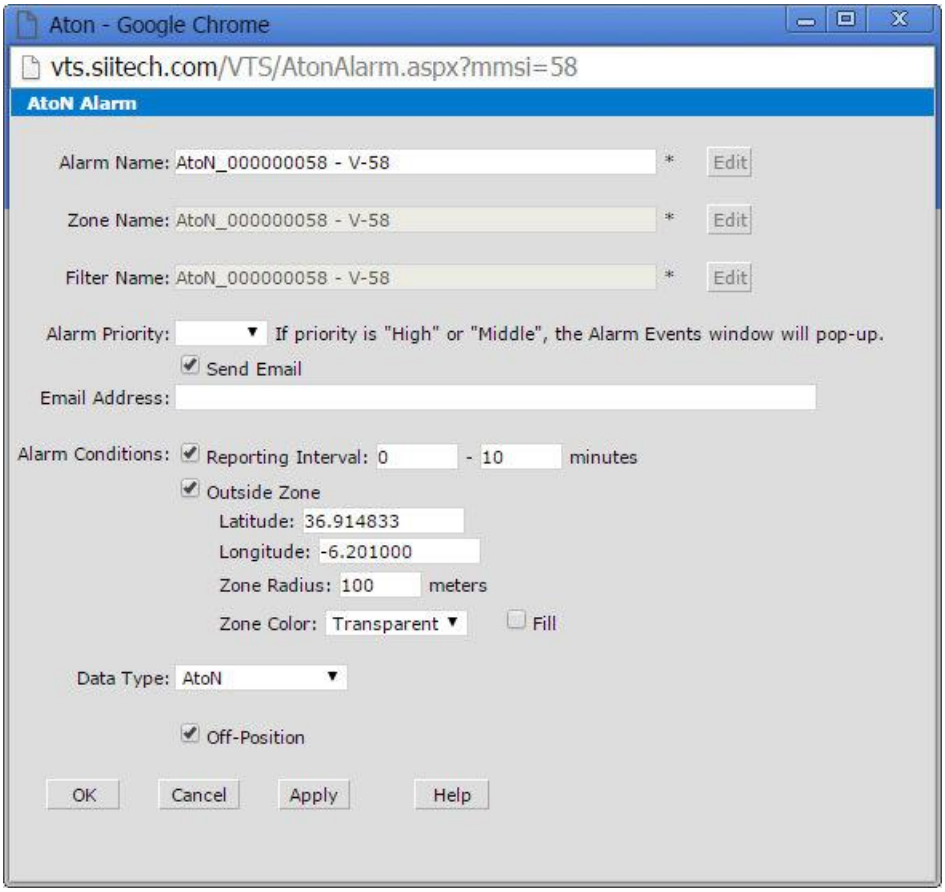


You can use this form to input all important information regarding your selected AtoN:

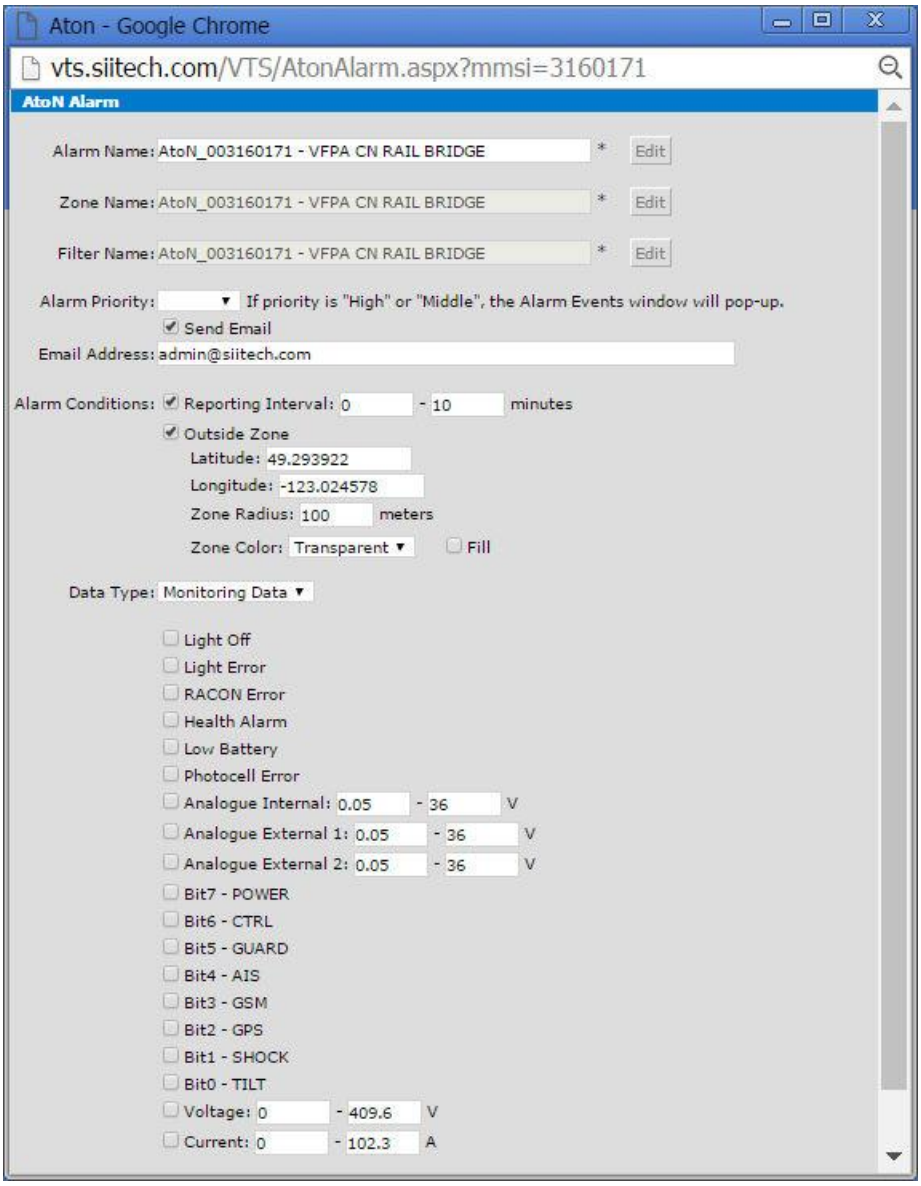
- Name
- Location
- Report intervals
- Additional information sent by this AtoN (meteorological and monitoring data)
- AtoN image

Add/Edit AtoN Alarms

Click the **New** link (at the far right side of the table) to open the **AtoN Alarm** form.



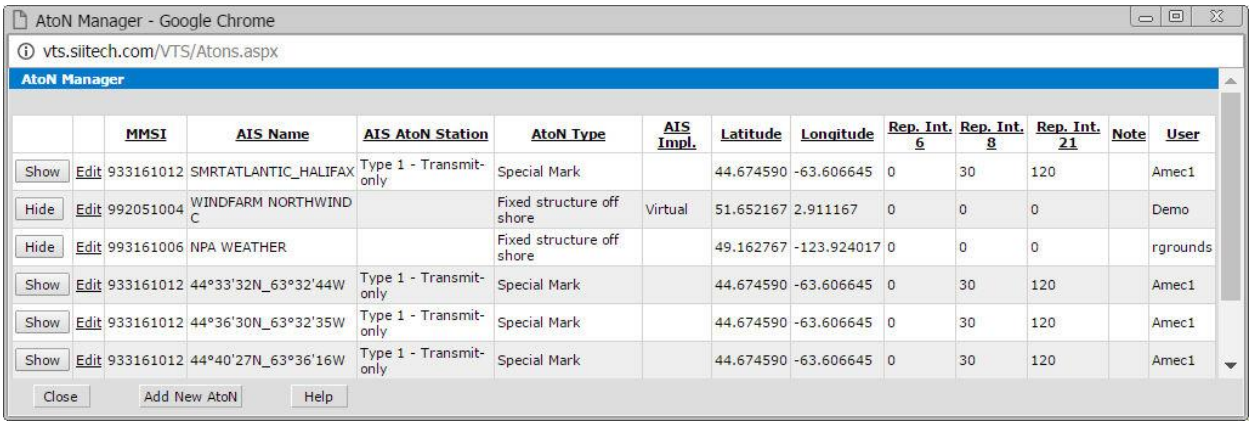
Alarm definition for AtoNs sending AIS message 21.



Alarm definition for AtoNs sending monitoring data using AIS message 6.

AtoN Manager

The **AtoN Manager** button displays all AtoNs that have been added using the **AtoN List** function, or entered manually.



Click the **Show** button to see this AtoN in the **AtoN Status** window.

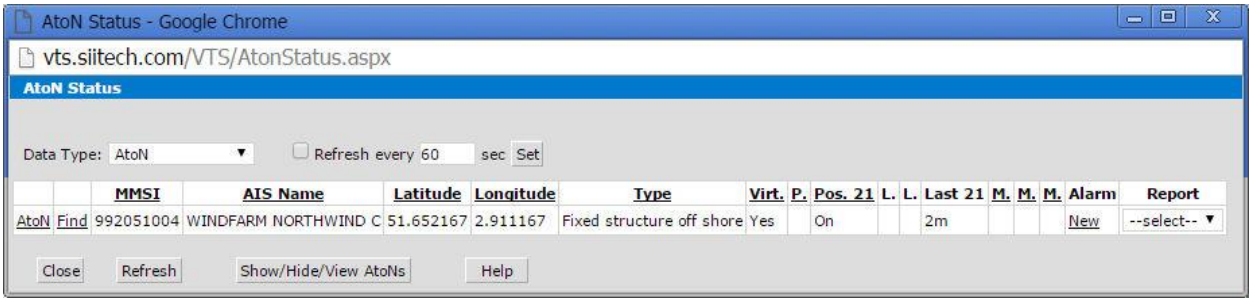
Click the **Hide** button to remove this AtoN from the **AtoN Status** window.

Click the **Edit** link in the second column of the table to go to the **AtoN Details** window.

Click the **Add New AtoN** button to add a new AtoN to the AtoN Manager list.

AtoN Status

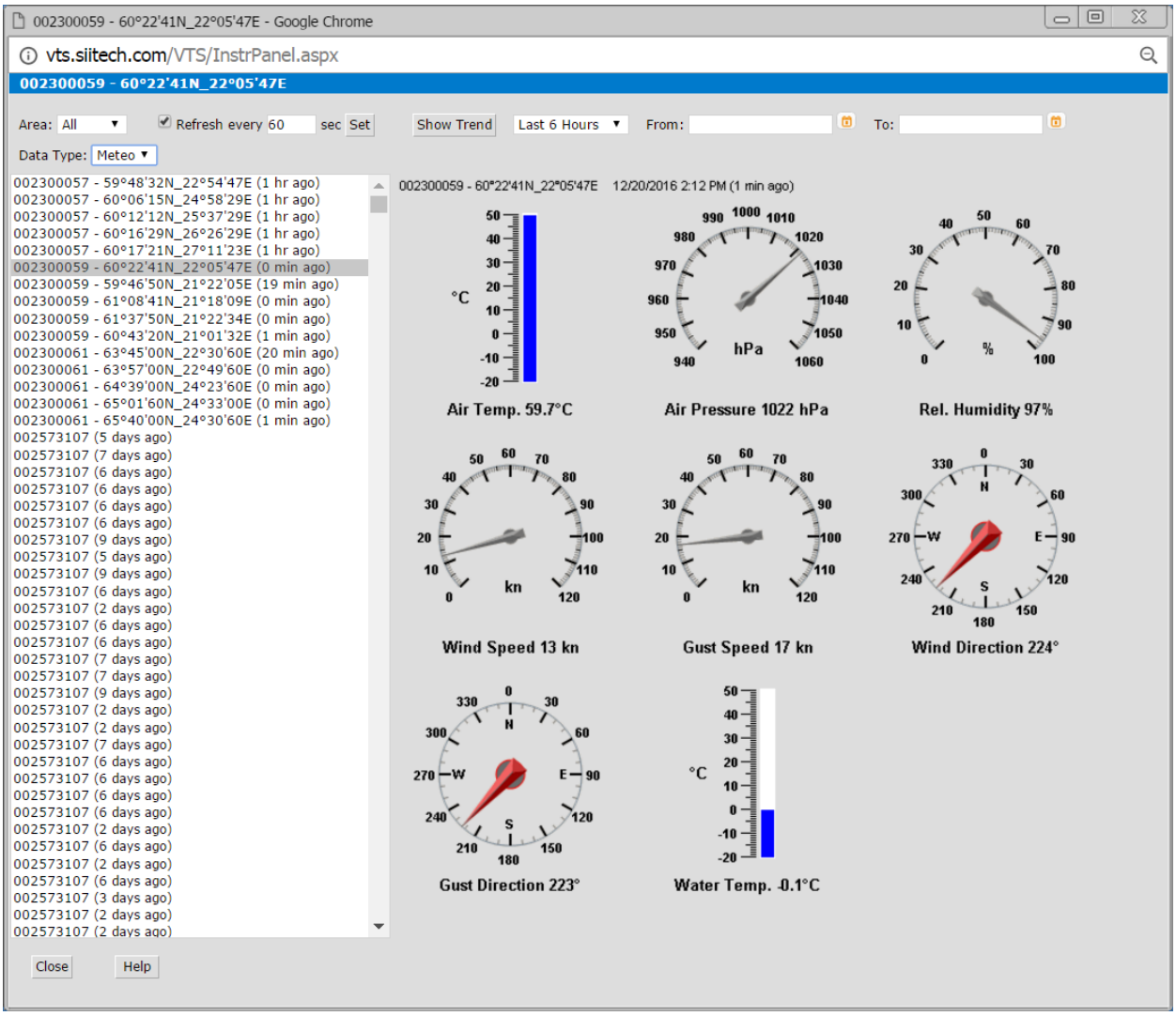
Click the **AtoN Status** button to open the **AtoN Status** window. Use this form to check the status of AtoNs selected in the **AtoN Manager** window.



Instrument Panel

You may use the Instrument Panel to view weather data or AtoN monitoring data in real-time.

Click the **Instrument Panel** button to open the **Instrument Panel** in a new window.

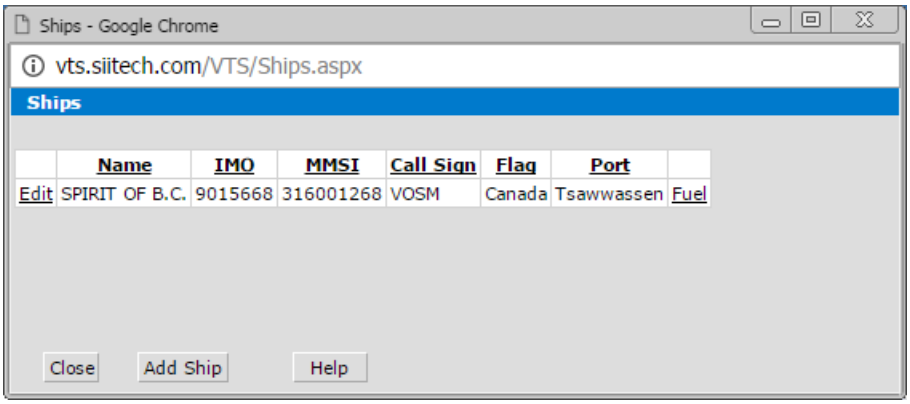


- Select 'All' from the **Area** drop-down list to view the list of all AtoNs in the system. Select 'Screen' from the **Area** drop-down list to view only those AtoNs visible on your current map view.
- Use the **Refresh every** field to automatically refresh the instrument panel.
- Click the **Show Trend** button to see the trend graphs for the time span selected from the drop-down list.
- Use the **Data Type** drop-down list to specify the type of AtoN data.

Fuel Consumption

Click the **Fuel Consumption by Speed** button to open the **Fuel Consumption by Speed** window.

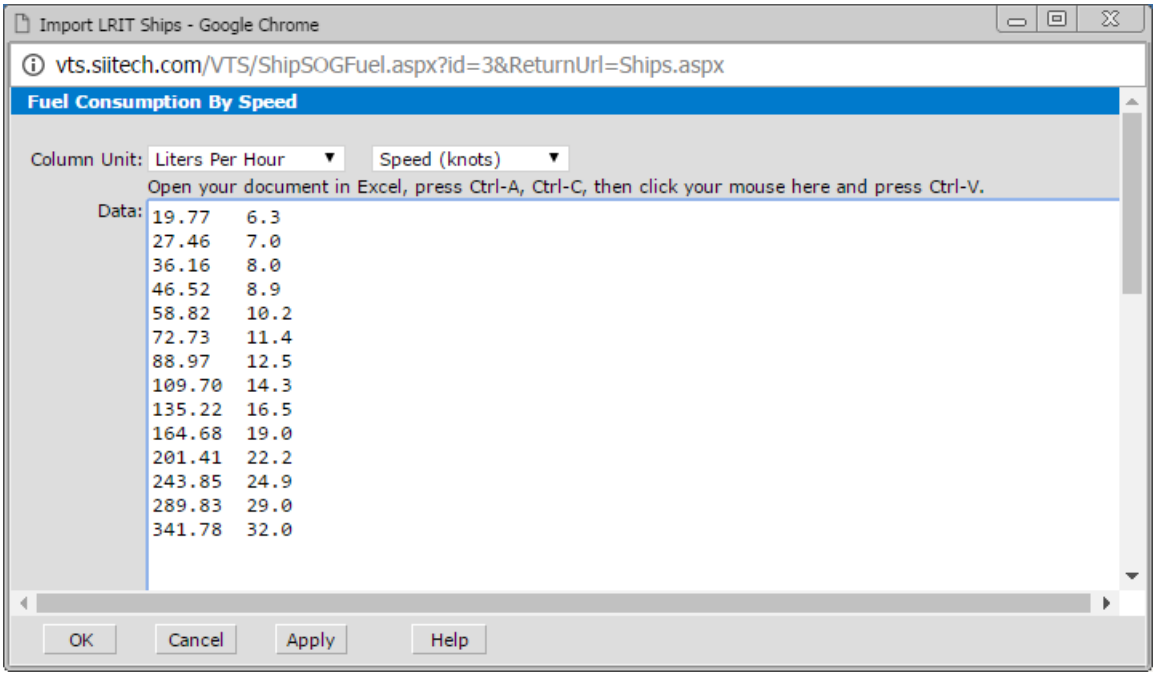
You may use this form to estimate the fuel consumption of a particular ship.



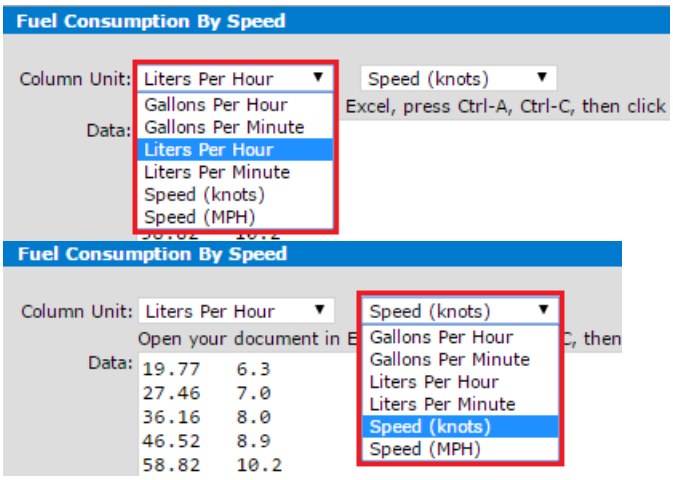
Click the **Edit** link in the first column of the table to go to the **Ship** window and edit an existing ship.

Click the **Add Ship** button to add a new ship to the list.

Click the **Fuel** link in the last column of the table to open the **Fuel Consumption by Speed** window. You may use this window to enter the fuel consumption by speed data for the selected ship. This data will be used to estimate the ship fuel consumption as a function of its speed.

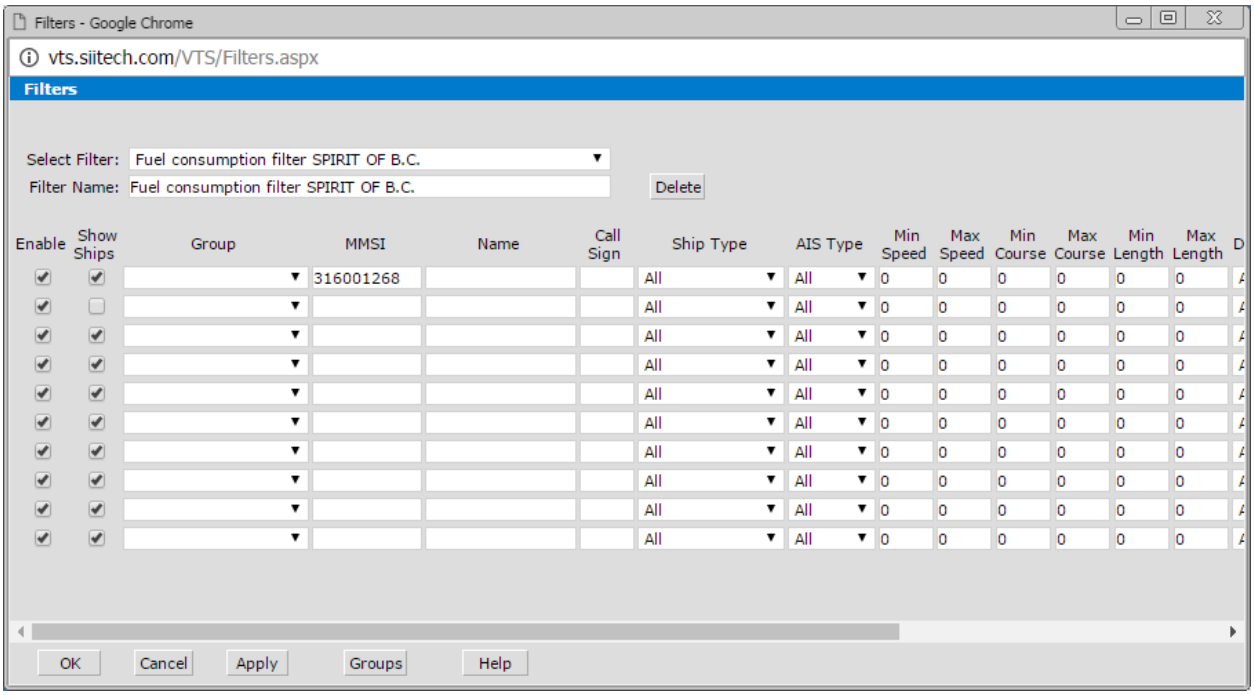


Select the units for the data in the first column and second column from the drop-down lists.

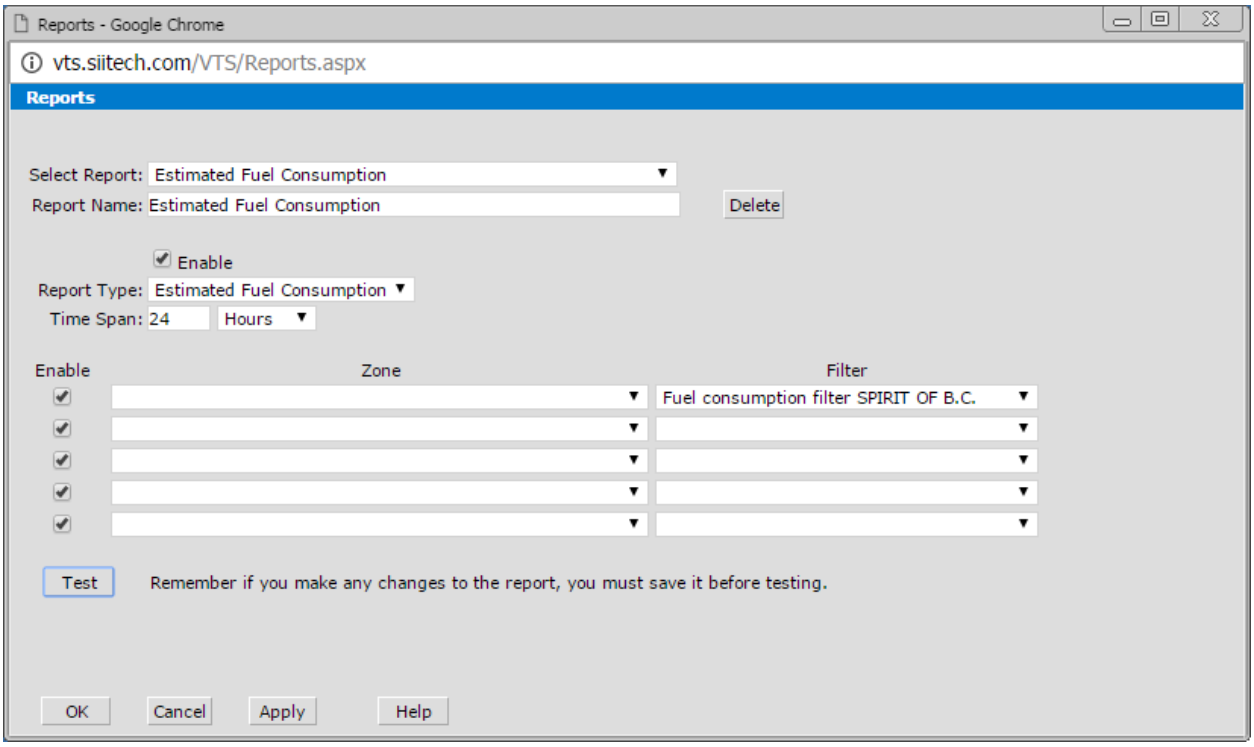


To generate an **Estimated Fuel Consumption** report:

1. Create a filter for the selected ship.



2. Create an **Estimated Fuel Consumption** report for the selected ship. Select the filter created in the previous step from the **Filter** drop-down list. Enter the time span for this report. Click **Apply** to save your changes.



Click **Test** to generate a report.

Estimated Fuel Consumption
12/31/2016 3:42 PM - 1/1/2017 3:42 PM [12/31/2016 11:42 PM UTC - 1/1/2017 11:42 PM UTC]

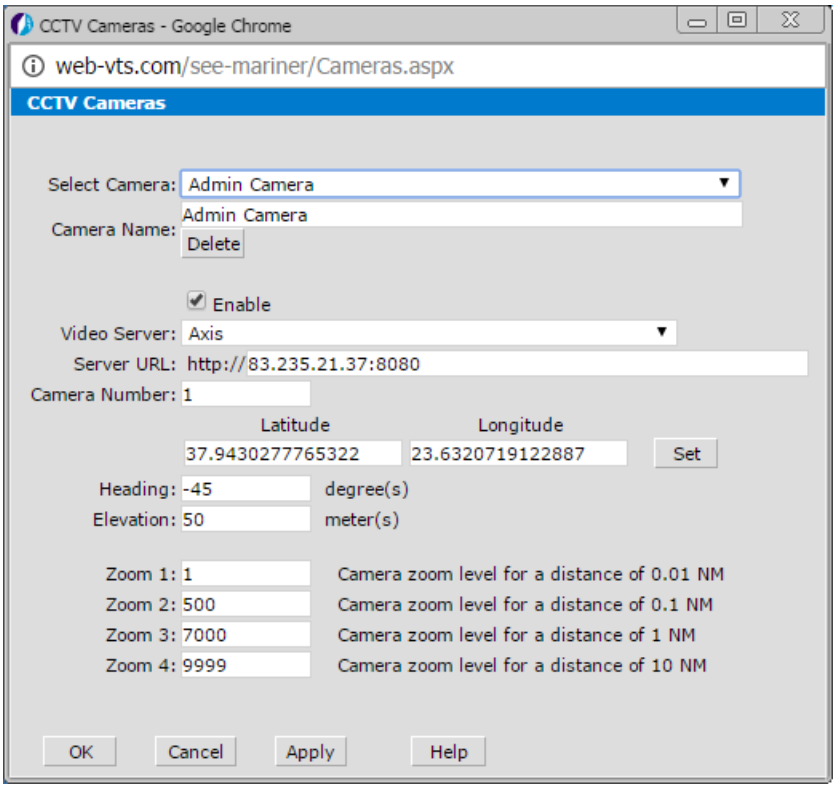
Name	MMSI	IMO	Consumption	Accuracy	Distance	Min Speed	Max Speed	Average Speed
SPIRIT OF B.C.	316001268	9015668	1398.9 Liters	100.0%	202.3	0.0	21.1	9.3

.

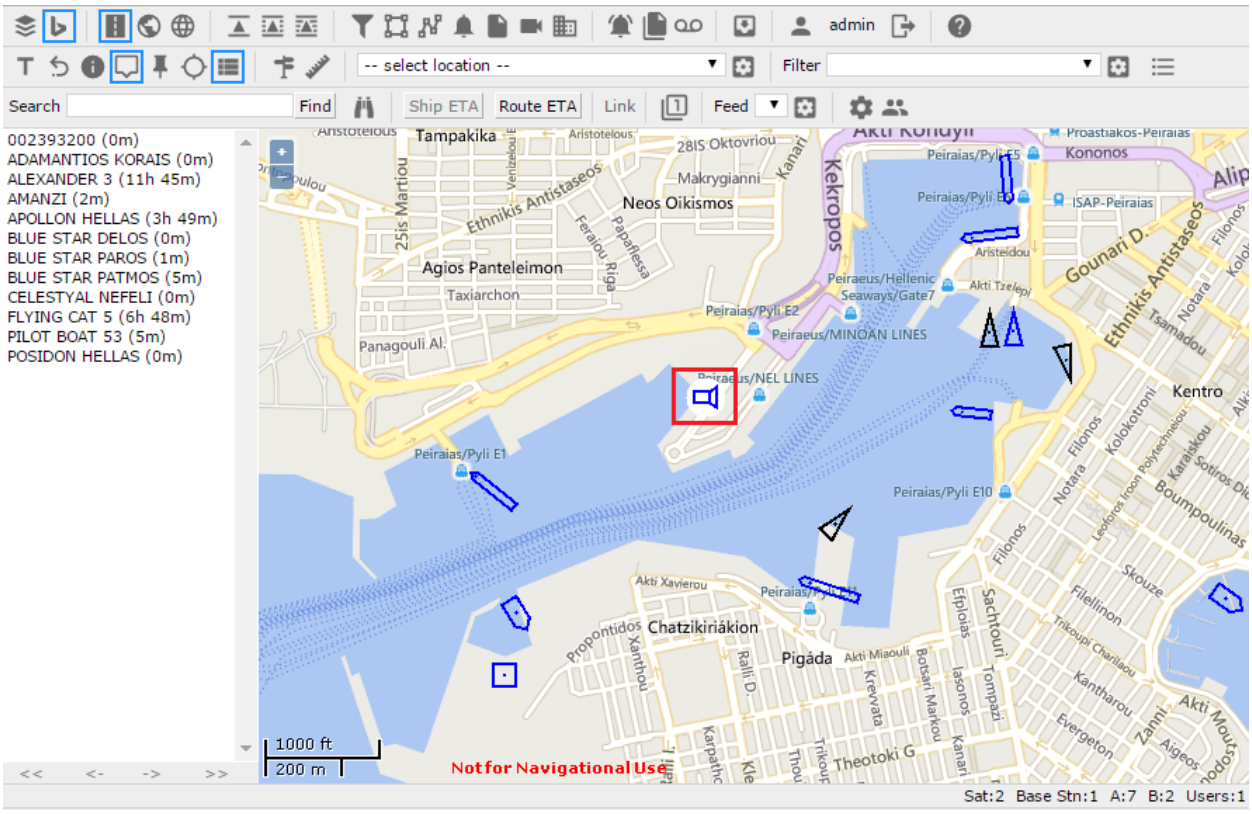
CCTV Cameras

Click the **CCTV Cameras** button in the toolbar to open the **CCTV Cameras** window.

You may use this form to specify the video server URL, position, and elevation of your CCTV camera(s).

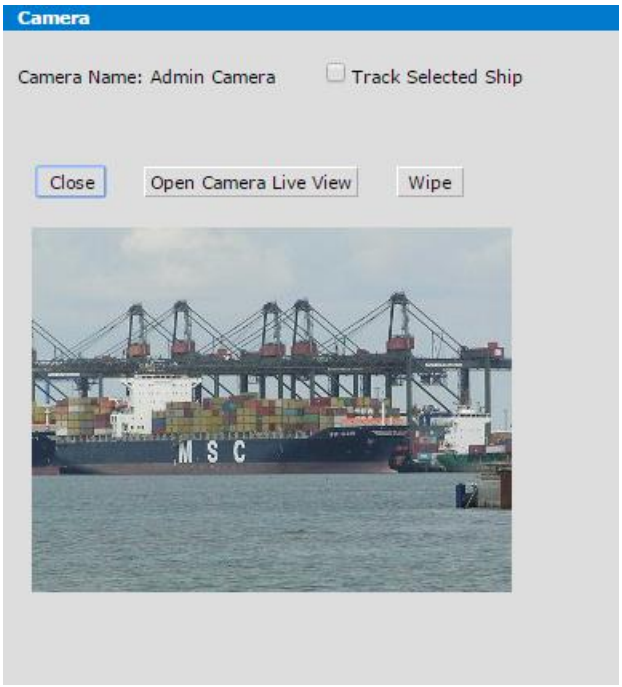


The system will show the camera location on the map.



To open the camera, right-click on the main map view and select **Open Camera** from the menu.

You will see the picture captured by the camera.



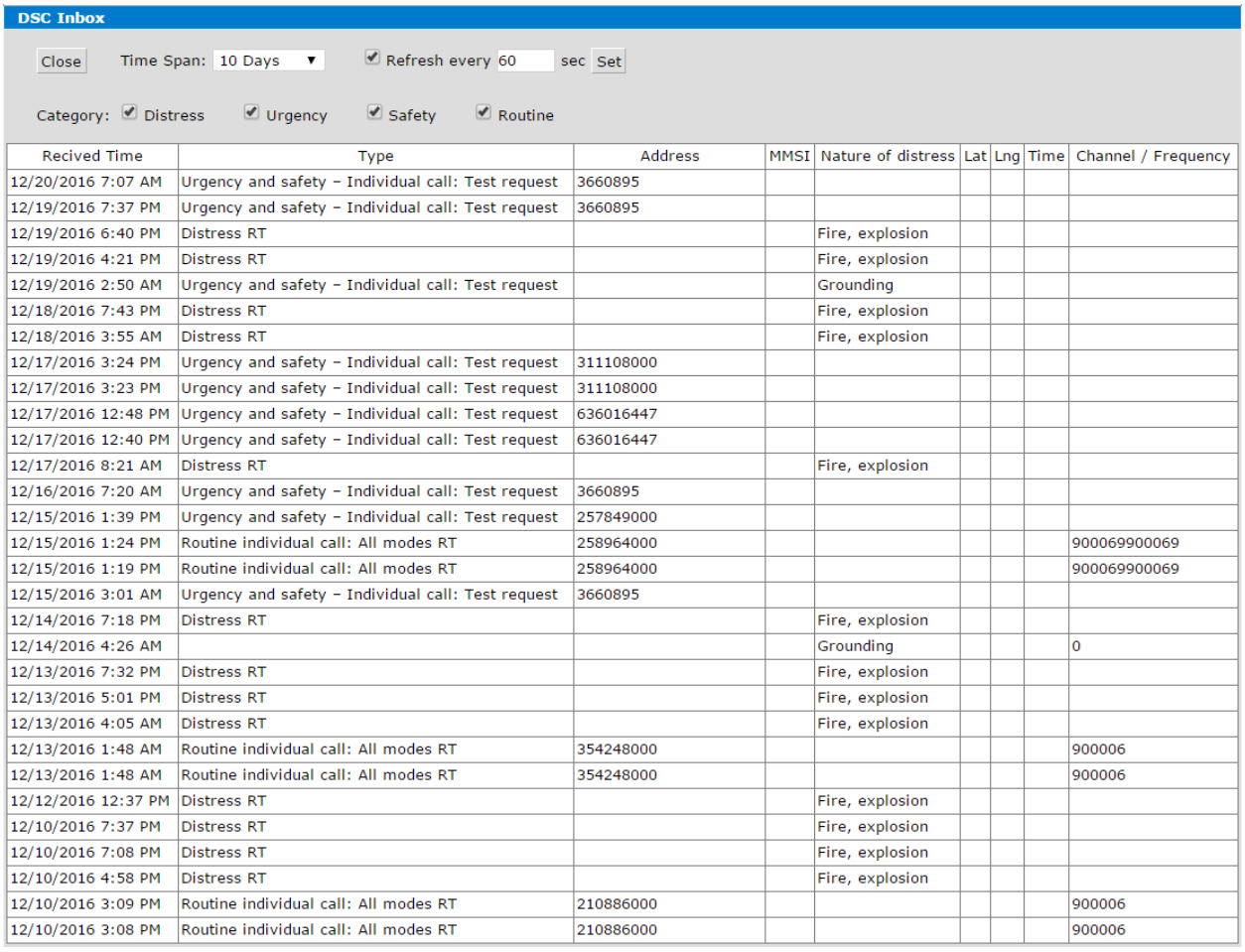
To use the camera for tracking a particular ship:

1. Check the **Track Selected Ship** box.
2. Select the ship on the main map view (click on the ship icon).

Digital Selective Calling Inbox

Digital selective calling (DSC) is a standard for sending pre-defined digital messages via the medium-frequency (MF), high-frequency (HF) and very-high-frequency (VHF) maritime radio systems. It is a core part of the Global Maritime Distress Safety System (GMDSS).

Click the **DSC Inbox** button to open the **Digital Selective Calling (DSC) Inbox** in a new window.



DSC Inbox

Close Time Span: 10 Days Refresh every 60 sec Set

Category: Distress Urgency Safety Routine

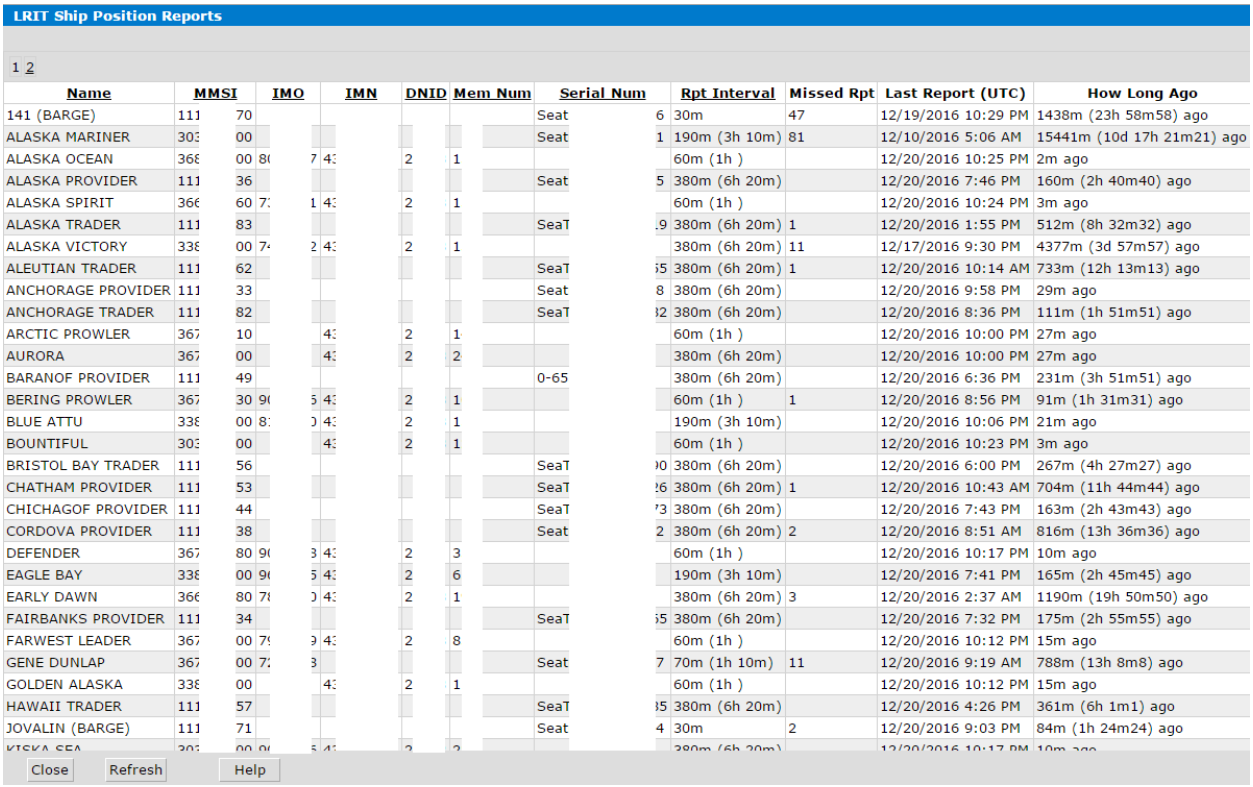
Recived Time	Type	Address	MMSI	Nature of distress	Lat	Lng	Time	Channel / Frequency
12/20/2016 7:07 AM	Urgency and safety – Individual call: Test request	3660895						
12/19/2016 7:37 PM	Urgency and safety – Individual call: Test request	3660895						
12/19/2016 6:40 PM	Distress RT			Fire, explosion				
12/19/2016 4:21 PM	Distress RT			Fire, explosion				
12/19/2016 2:50 AM	Urgency and safety – Individual call: Test request			Grounding				
12/18/2016 7:43 PM	Distress RT			Fire, explosion				
12/18/2016 3:55 AM	Distress RT			Fire, explosion				
12/17/2016 3:24 PM	Urgency and safety – Individual call: Test request	311108000						
12/17/2016 3:23 PM	Urgency and safety – Individual call: Test request	311108000						
12/17/2016 12:48 PM	Urgency and safety – Individual call: Test request	636016447						
12/17/2016 12:40 PM	Urgency and safety – Individual call: Test request	636016447						
12/17/2016 8:21 AM	Distress RT			Fire, explosion				
12/16/2016 7:20 AM	Urgency and safety – Individual call: Test request	3660895						
12/15/2016 1:39 PM	Urgency and safety – Individual call: Test request	257849000						
12/15/2016 1:24 PM	Routine individual call: All modes RT	258964000						900069900069
12/15/2016 1:19 PM	Routine individual call: All modes RT	258964000						900069900069
12/15/2016 3:01 AM	Urgency and safety – Individual call: Test request	3660895						
12/14/2016 7:18 PM	Distress RT			Fire, explosion				
12/14/2016 4:26 AM				Grounding				0
12/13/2016 7:32 PM	Distress RT			Fire, explosion				
12/13/2016 5:01 PM	Distress RT			Fire, explosion				
12/13/2016 4:05 AM	Distress RT			Fire, explosion				
12/13/2016 1:48 AM	Routine individual call: All modes RT	354248000						900006
12/13/2016 1:48 AM	Routine individual call: All modes RT	354248000						900006
12/12/2016 12:37 PM	Distress RT			Fire, explosion				
12/10/2016 7:37 PM	Distress RT			Fire, explosion				
12/10/2016 7:08 PM	Distress RT			Fire, explosion				
12/10/2016 4:58 PM	Distress RT			Fire, explosion				
12/10/2016 3:09 PM	Routine individual call: All modes RT	210886000						900006
12/10/2016 3:08 PM	Routine individual call: All modes RT	210886000						900006

- Select a predefined option from the **Time Span** drop-down list to view received messages within a specified time period.
- Use the **Refresh every** field to automatically refresh the DSC inbox.
- Use the **Category** option to filter messages by type (e.g. Distress, Urgency, Safety, Routine).

LRIT Ship Position Reports

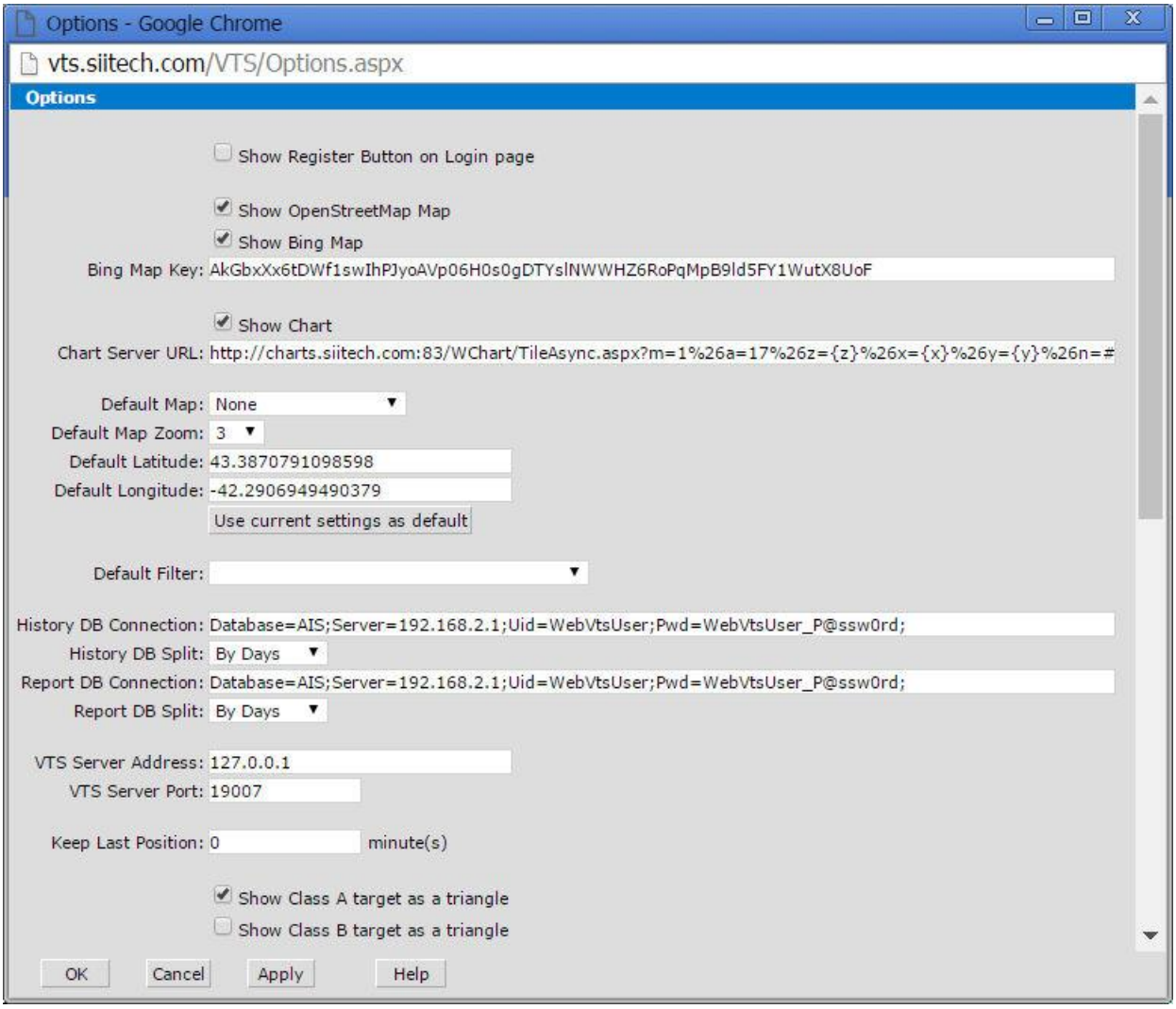
If your system is configured to receive LRIT ship position reports, you may view them using the LRIT Ship Position Reports form.

Click the **LRIT Ship Position Reports** button to open **LRIT Ship Position Reports** in a new window.



Options

Click the **Options** button ⚙ to open the **Options** window. This screen may be used for configuring WebVTS options.



Show Register Button on Login page. Check the box to allow new users to register on your website.

Show OpenStreetMap. Check the box to allow users to use OpenStreetMap.

Show Bing Maps. Check the box to allow users to use Bing Maps.

Bing Maps Key. Enter a valid Bing Maps key into this field.
(*Note*: If you need help obtaining a Bing Maps Key, please visit: https://msdn.microsoft.com/en-us/library/ff428642.aspx).

Show Chart Button. Check the box to allow users to use S-57 and BSB nautical charts.

Charts Server URL. Enter the Web Chart server URL if S-57 or/and BSB nautical charts are enabled.

Default Map Mode. Select a default map type from the drop-down list.

Default Map Zoom. Select a default zoom level from the drop-down list.

Default Latitude and Longitude. Use this field to type the coordinates of the default location.

Set current settings as default. Click to set your current settings as the default map settings.

Default Filter. Select the default filter to be automatically applied to every user in this system.

History DB Connection. Use this field to set the history database connection string. This database must be specified in the AIS Server's AIS Database service. See "AIS Server Administrator's Guide" for more information.

History DB Split. Select the period of time represented by each part of the history database . This parameter must match **Split database** in the AIS Server's AIS Database service, which is used to collect history data. See "AIS Server Administrator's Guide" for more information.

Report DB Connection. Use this field to set the report database connection string. This database must be specified in the AIS Server's AIS Database service. See "AIS Server Administrator's Guide" for more information.

Report DB Split. Select the period of time represented by each part of the report database. This parameter must match **Split database** in the AIS Server's AIS Database service, which is used to collect report data. See "AIS Server Administrator's Guide" for more information.

Note: If you want to use all of your historical data or reporting, **Report DB Connection** must be identical to **History DB Connection.**

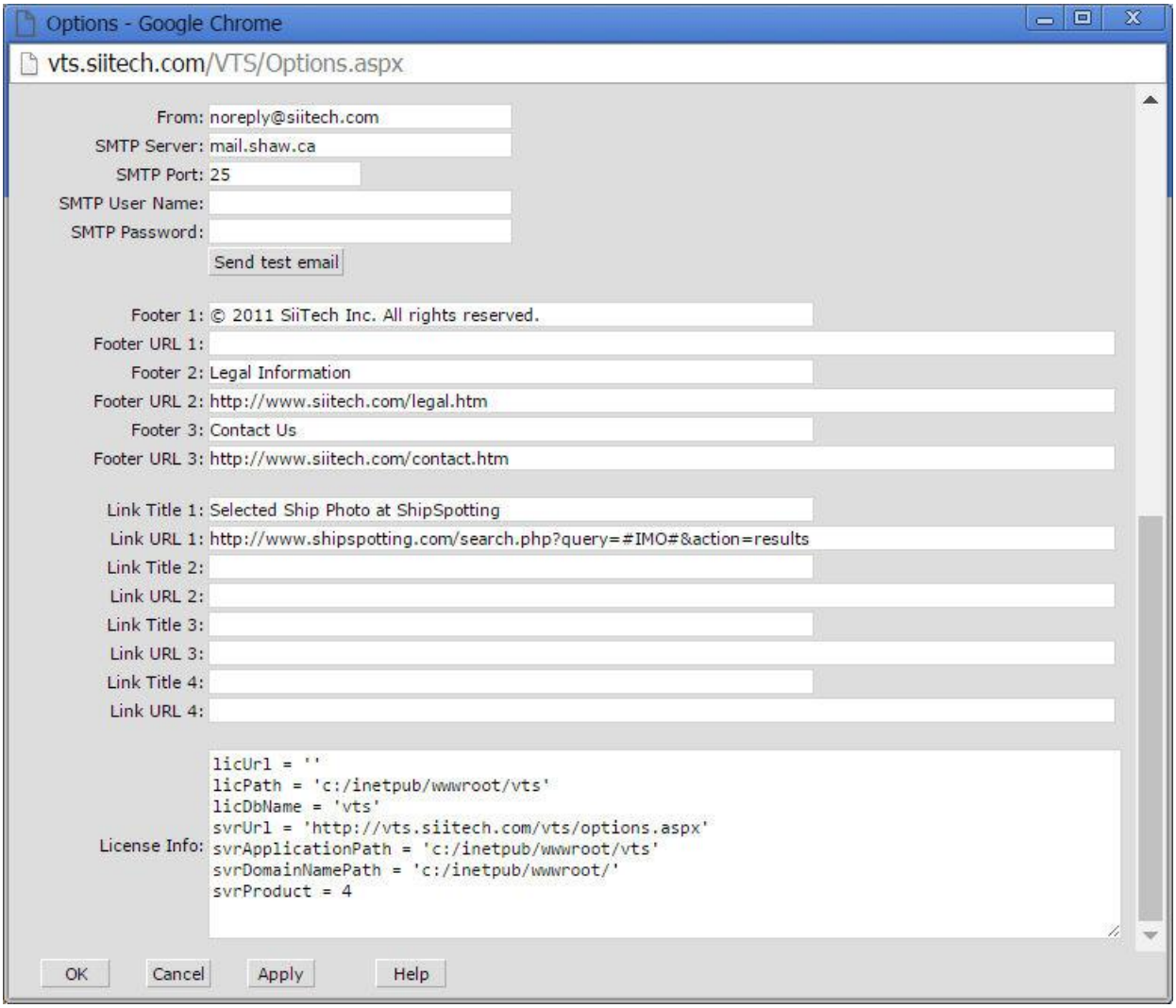
VTS Server Address. Set the IP address of the computer where the AIS Server's VTS Server service is running. This value is usually **127.0.0.1**.

VTS Server Port. Set the box port number used by the AIS Server's VTS Server service. This value is usually **9007**.

Keep Last Position. Enter the number of minutes the last selected ship's position must be shown on the screen after the ship's transponder has turned off.
Enter "0" in this field to use the system's default parameters.

Show Class A target as a triangle. Check the box to show ships equipped with Class A transponders as triangles.

Show Class B target as a triangle. Check the box to show ships equipped with Class B transponders as triangles.



From. Enter sender's email address.

SMTP Server. Enter SMTP server address.

SMTP Port. Enter SMTP port.

SMTP User Name. Enter SMTP user name.

SMTP Password. Enter SMTP user password.

Send test email. Click to send a test email to the email address of the current user.

Footer. Use these fields to customize your WebVTS footer text.

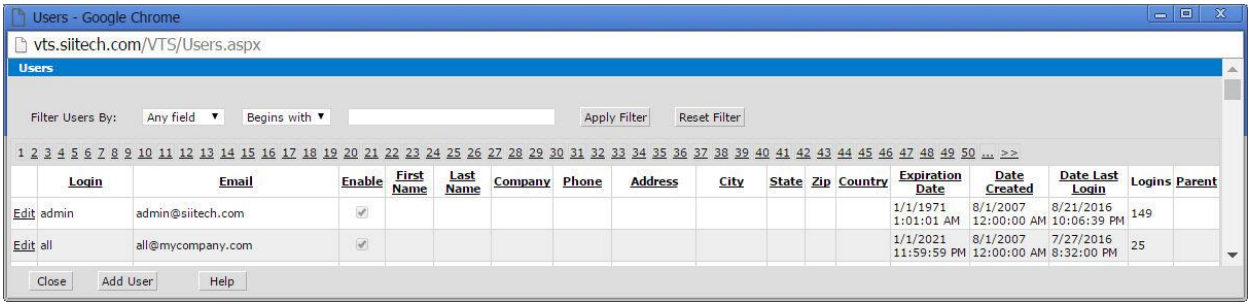
Footer URL. Use these fields to customize your WebVTS footer links.

Link Title. Use these fields for enabling and customizing link buttons 1, 2, 3, 4 in the main toolbar.

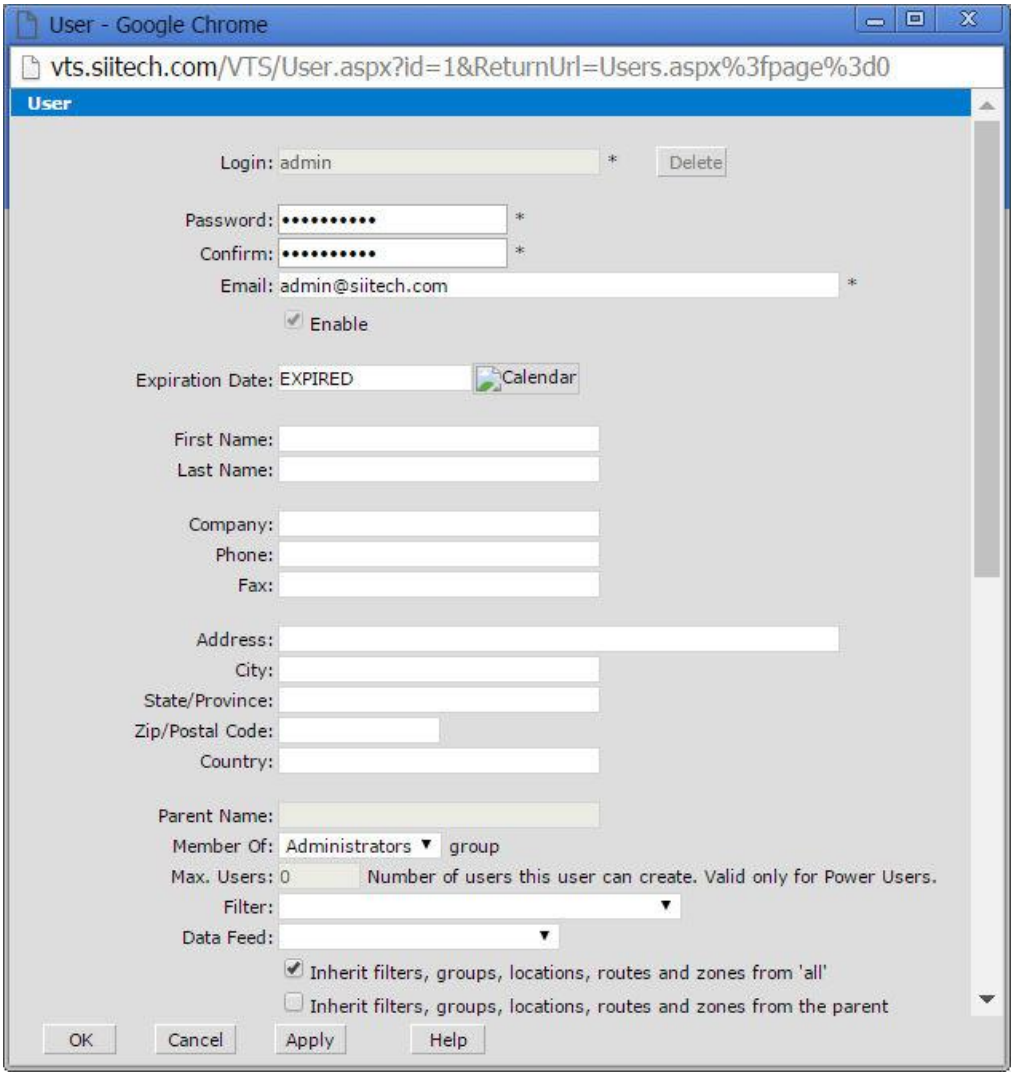
Link URL. Enter the corresponding link URL address(es) for your link buttons.

Users

Click the **Users** button to open the **Users** window. This screen may be used for adding/removing users and editing user information.



Click the **Edit** link on the left side of a specific user's login name to open the **User** window.



Expiration Date. Use this field if you want to automatically disable the user's account after a specified date.

Member Of. Select the user type from the drop-down list.

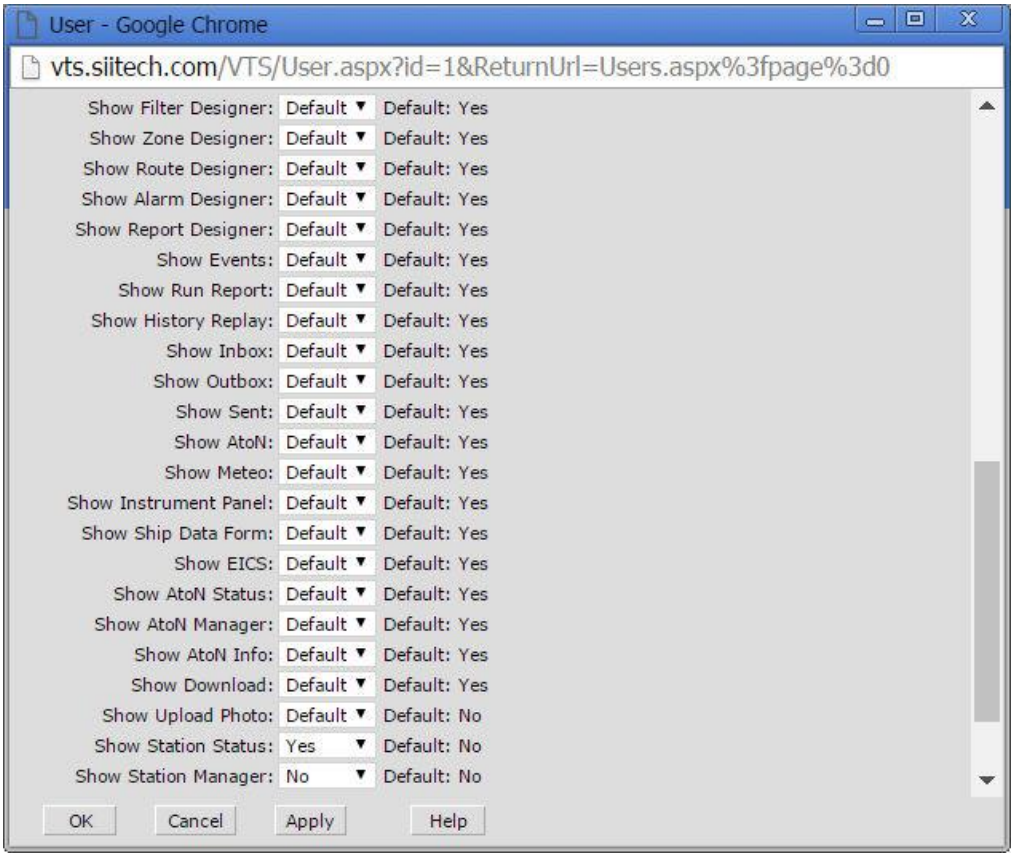
Max. Users. Enter the number of others users this account can create. *Note*: This parameter is valid for Power Users only.

Filter (optional). Select the filter to be applied to this user by default. The user will not be able to remove this filter.

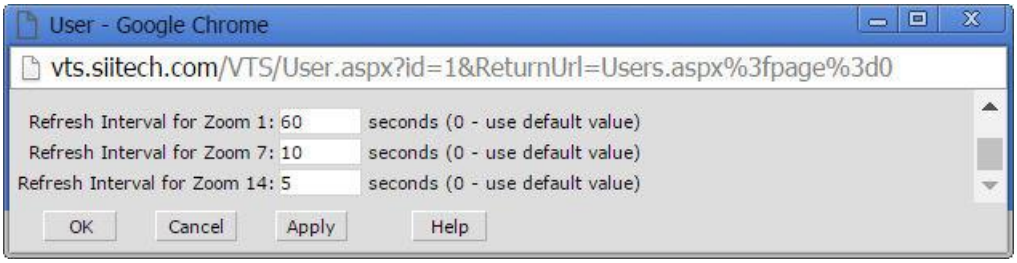
Data Feed (optional). Select the data feed for this user.

Inherit filters, groups, locations, routes and zones from 'all'. Check this box to enable this user to see objects created by user 'all'.

Inherit filters, groups, locations, routes and zones from the parent. Check this box to enable this user to see objects created by the parent.



Edit these parameters to select which buttons will be visible in this user's main toolbar.



Use these parameters to specify refresh intervals for different zoom levels.

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