



SkyWeb User Guide

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Table Of Contents

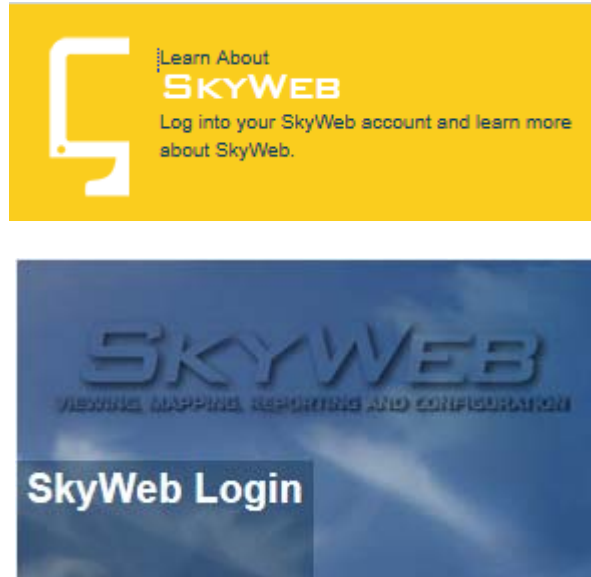
| | | |
|----------|---|-----------|
| 1 | About this Document..... | 5 |
| 1.1 | About SkyWeb | 5 |
| 1.2 | Purpose | 6 |
| 1.3 | Definitions, Acronyms, Abbreviations..... | 6 |
| 2 | General..... | 7 |
| 2.1 | User Account Roles | 7 |
| 2.1.1 | Flight Following: Basic Role..... | 7 |
| 2.1.2 | Flight Following: Full Access Role | 7 |
| 2.1.3 | Weather | 7 |
| 2.2 | Accessing SkyWeb | 8 |
| 2.2.1 | Logging In | 8 |
| 2.2.2 | Load Data | 8 |
| 2.2.3 | Logging Out | 12 |
| 2.3 | Areas of the SkyWeb Window..... | 13 |
| 2.4 | Navigating the Map | 13 |
| 2.5 | Latitude & Longitude | 13 |
| 2.6 | 2D/3D View | 14 |
| 2.7 | Mapping | 14 |
| 2.8 | Zoom/Scale..... | 14 |
| 2.9 | Colour Codes | 15 |
| 3 | Toolbar Menu Items | 17 |
| 3.1 | File Menu | 17 |
| 3.2 | View Menu | 17 |
| 3.2.1 | Status..... | 18 |
| 3.2.2 | Events..... | 18 |
| 3.2.3 | Updates | 18 |
| 3.2.4 | Find Box..... | 18 |
| 3.2.5 | Crosshairs..... | 18 |
| 3.2.6 | Dashboard | 19 |
| 3.2.7 | Overview Map..... | 24 |
| 3.2.8 | Aeronautical Charts | 24 |
| 3.2.9 | Sidebar | 24 |
| 3.2.10 | Weather Legends | 25 |
| 3.2.11 | Reporting Regions | 25 |
| 3.2.12 | High Resolution Data (ISAT 200A Only) | 25 |
| 3.3 | Aircraft Menu..... | 26 |
| 3.3.1 | Show..... | 27 |
| 3.3.2 | Frame | 28 |
| 3.3.3 | Paths..... | 29 |
| 3.4 | Tools Menu | 30 |
| 3.4.1 | Destination... .. | 30 |
| 3.4.2 | Pinned Reference | 32 |
| 3.4.3 | Calculate Distance | 34 |
| 3.4.4 | Go To..... | 35 |
| 3.4.5 | Geofences..... | 36 |

| | | |
|----------|--|-----------|
| 3.4.6 | Georeferences..... | 37 |
| 3.4.7 | Silence Alarms..... | 39 |
| 3.4.8 | Poll Now..... | 39 |
| 3.5 | Preferences Menu..... | 40 |
| 3.5.1 | Alarms..... | 40 |
| 3.5.2 | Aircraft..... | 41 |
| 3.5.3 | Geofences..... | 45 |
| 3.5.4 | Geo References..... | 47 |
| 3.5.5 | Rendezvous..... | 47 |
| 3.5.6 | Zoom..... | 49 |
| 3.5.7 | GPS Display Options..... | 49 |
| 3.5.8 | Data..... | 50 |
| 3.5.9 | Poll Interval..... | 50 |
| 3.5.10 | Configure FlightBar..... | 51 |
| 3.5.11 | Display Seconds in Log..... | 53 |
| 3.6 | Help Menu..... | 53 |
| 3.7 | Sidebar..... | 54 |
| 3.7.1 | Weather..... | 54 |
| 3.7.2 | Terrain and Obstacle Data..... | 56 |
| 3.7.3 | NOTAMs..... | 59 |
| 4 | FlightBar..... | 61 |
| 4.1 | Status Tab..... | 61 |
| 4.2 | Flight Tab..... | 62 |
| 4.3 | Log Tab..... | 63 |
| 4.3.1 | High Resolution Data (ISAT 200A only)..... | 64 |
| 4.4 | Right-Click Menu..... | 65 |
| 4.5 | Create FlightWatch..... | 66 |
| 4.6 | Edit FlightWatch..... | 68 |
| 4.7 | Set Current/Next Mission #..... | 68 |
| 4.8 | Edit Notes..... | 69 |
| 4.9 | Initiate Cooperative Rendezvous..... | 70 |
| 4.10 | Cancel Rendezvous..... | 72 |
| 4.11 | Send Message..... | 72 |
| 4.12 | Custom Events..... | 73 |
| 4.13 | Right-Click Map Menu..... | 73 |
| 4.13.1 | Add Address Marker..... | 74 |
| 4.13.2 | Add Coordinates Marker..... | 74 |
| 4.13.3 | Initiate Cooperative Rendezvous..... | 74 |
| 4.13.4 | Delete Marker / All Markers..... | 74 |
| 4.13.5 | Reverse Geocode..... | 75 |
| 5 | SkyMail..... | 76 |
| 5.1 | Inbox..... | 76 |
| 5.2 | Sent Items..... | 77 |
| 5.3 | Create Message..... | 78 |

1 ABOUT THIS DOCUMENT

1.1 About SkyWeb

To access the SkyWeb portal go to SkyTrac System's main web page at www.skytrac.ca.



If the user wishes to save a link to SkyWeb as a favorite, they should save the path <http://skyweb.skytrac.ca> in their favorites. Using either of these two methods will ensure that they are taken to an active SkyWeb server.

Minimum Browser requirements are Internet Explorer 8+ and Firefox 3.5+. A broadband internet connection is recommended. The user can choose to select either the standard (http) security or enhanced (https) security.

SkyWeb has seven components:

- Flight Following – the flight following & mapping software
- Account Management – SkyWeb account administration
- Administration – configure alert notifications, cockpit interface configuration, geographic references and hardware profiles.
- Hardware Management – asset activation and configuration
- Flight Data Monitoring – Manage and report on aircraft FDM data.
- Reports – view daily/yearly asset usage and historical invoices
- Duty Hours – Manage and report on pilot duty hours.

1.2 Purpose

The purpose of this document is to provide instructions on how to use the features of the Flight Following module of the SkyWeb Portal. Instructions on how to use the Account Management, Administration, Hardware Management, Flight Data Monitoring, Comms Traffic Reports and Duty Hours components can be found in the SkyWeb Administrator Guide.

1.3 Definitions, Acronyms, Abbreviations

| Acronym | Description |
|---------|-----------------------------|
| STS | SkyTrac Systems |
| HMC | Hardware Management Console |
| PM | Program Manager |
| DVI | Dispatch Voice Interface |
| CDP | Cockpit Display Panel |
| CDP/DVI | Combination of DVI and CDP |
| HRD | High resolution data |

2 GENERAL

2.1 User Account Roles

The User Accounts, and the Roles each user has, are configured in the Account Management component of SkyWeb by the Program Manager.

2.1.1 Flight Following: Basic Role

This is a standard user role that only has access to current flight information. Some of the options listed in this manual will not be available for this role.

2.1.2 Flight Following: Full Access Role

The Full Access role will have access to the same features as the Basic role plus:

- SkyMail
- Previous flight information
- FlightBar: Status Tab
- FlightBar: Flight Tab
- FlightBar: Log Tab
- Create/Edit Georeferences

2.1.3 Weather

The Program Manager can add the 'Weather Role' to a user account. This is a paid service and therefore not all users will have been given access to it.

The user can be given access to weather overlays for:

- Canada
- US
- Europe

Access to these can be given in any combination (i.e. individual, some or all).

DISCLAIMER

Weather data is provided on an "as-is" basis, exclusively for information purposes. SkyTrac and Schneider Electric make no claims as to the accuracy, completeness, or currency of any Information on this site and shall not be held liable for errors, omissions, delays or any damages, losses or injuries related to the use of this information.

2.2 Accessing SkyWeb

2.2.1 Logging In

SkyWeb is accessed from the SkyTrac Systems website www.skytrac.ca. Click on the SkyWeb link in the upper right corner of the page to open the login page. Alternatively, you may enter the path <http://skyweb.skytrac.ca>. Enter the username and password as provided by your local SkyWeb Program Manager.

WARNING:

User accounts are restricted to a single login. Only one user may use the account at a time. Failure to comply may cause a forced logout!

Users with multiple privileges within SkyWeb will see the Main Menu page first. If that is the case then they must click the 'Flight Following' button to access the flight following module of SkyWeb. Clicking on the Flight Following button will cause SkyWeb to load and the 'Load Data' dialog box will be displayed.



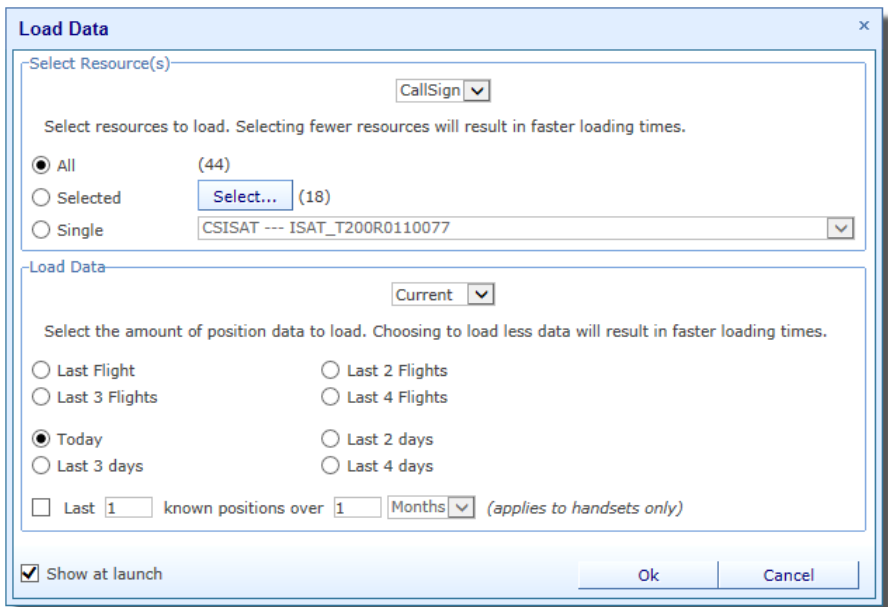
2.2.2 Load Data

This provides the user with the ability to select which data they wish to see. They have the option to select all aircraft, specific aircraft or just a single aircraft. They can select to load units either by the Call Sign, Unit, Reg # or IMEI #.

Those users that have full access can also select the amount of data to load.

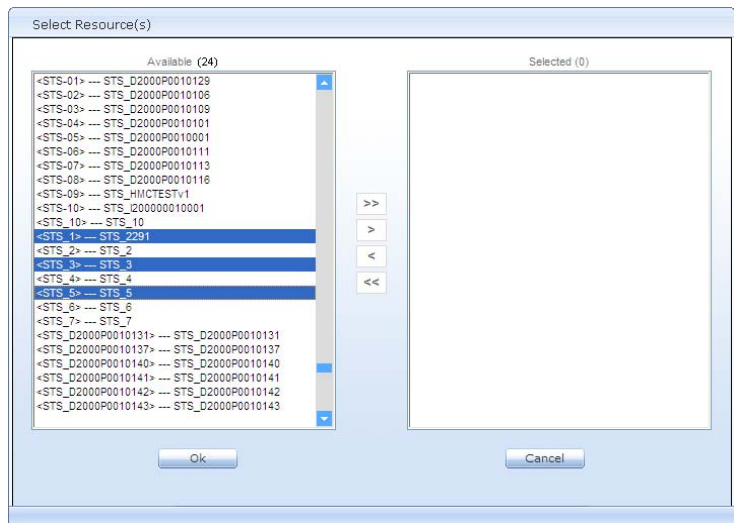
2.2.2.1 All



This will load every aircraft in the user's account. If there are many aircraft, they may notice a slight delay in loading.



2.2.2.2 Selected

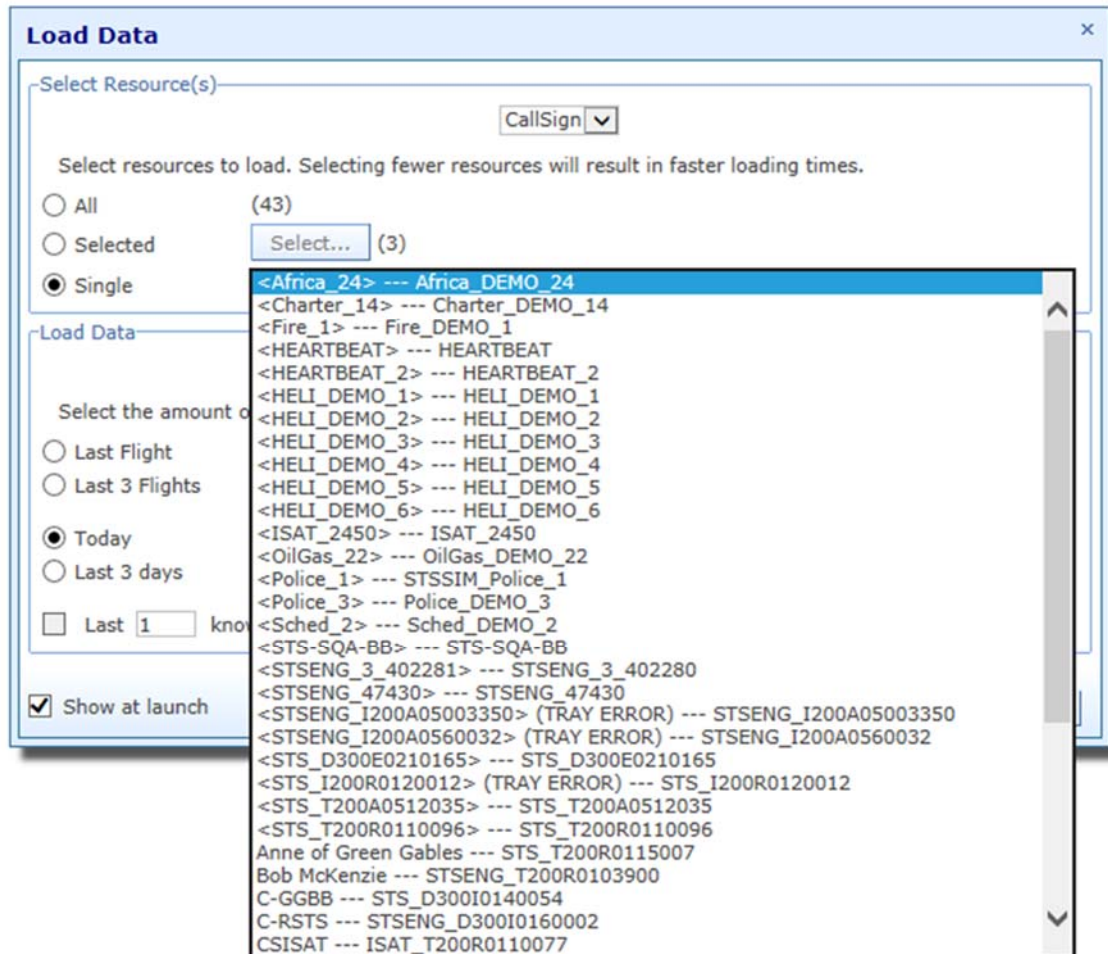
If the user wishes to select a number of specific aircraft then they must click on the 'Select...' option. This will cause the 'Select Resource(s)' dialog box to be displayed (see below). To select multiple aircraft they must hold the CTRL key down and click on each resource they require in the 'Available' area:



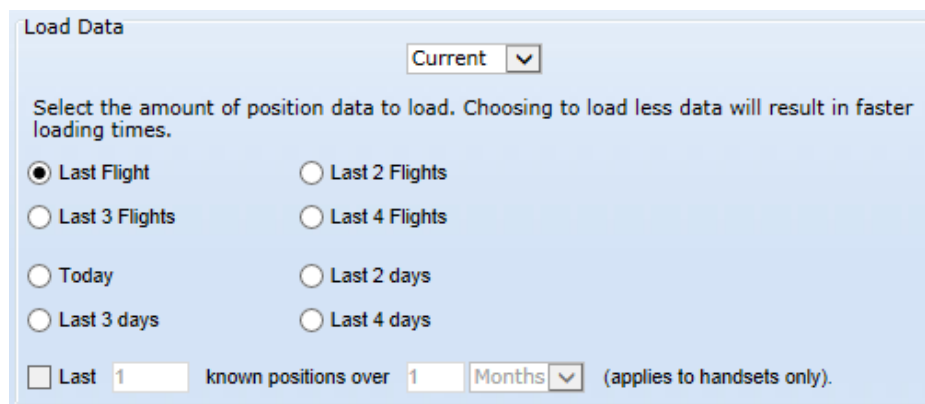
By clicking the  (Add) button any resources currently selected will be placed in the 'Selected' area. Only aircraft that are in the 'Selected' area will be displayed in the Status Tab of the FlightBar. To add the entire list of 'Available' aircraft to the 'Selected' area use the  (Group Add) button.

2.2.2.3 Single

Click the 'Single' radio button to enable the drop-down box in order to select a single aircraft to display on the map.



The user can select a number of days or flights to view, depending on how much historical data is needed to be seen. The smaller amount of data selected, the faster the Flight Following Interface will load.



If the user has been given the 'Historical Data' privilege by the Program Manager in the Account Management section they will be able to load up to a 31 day period of historical data, as long as that period is within the last year. They will have to change the 'Current' option in the drop-down menu to 'Historical'

Load Data

Select Resource(s)

CallSign

Select resources to load. Selecting fewer resources will result in faster loading times.

☐ All (46)

☐ Selected **Select...** (11)

☒ Single CSISAT --- ISAT_T200R0110077

Load Data

Historical

Select a date range to view historical position reports. Up to 31 days of reports may be viewed at a time.

Start Date: 1/16/2014

End Date: 1/16/2014

Export...

January 2014

| S | M | T | W | T | F | S |
|----|----|----|----|----|----|----|
| 29 | 30 | 31 | 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 | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Ok **Cancel**

☒ Show at launch

If the user account has Iridium handsets then the following option will be available.

☐ Last 1 known positions over 1 Months (applies to handsets only).

Using the calendars the user can specify the date period they wish to load. They also have the option to export the data to MS Excel by using the 'Export' button.

Export CSVs Configuration


Delimiter

☒ Comma ☐ Semicolon ☐ Tab

☐ Include Field Headers ☐ Enclose Fields in Double Quotes

Ok **Cancel**

The user can specify how they wish to delimit the data and which additional items to include. The data will then be exported to MS Excel to enable the user to manipulate it as they wish.

If the Show at launch checkbox  Show at launch is unchecked, the next time Flight Following is selected from the main menu, the Flight Following map will open automatically, displaying the same Resource and time settings from the previous session.

If the user needs to change any of the resources or other settings, they can simply select 'Reload Data...' from the Flight Following Menu bar.

2.2.3 Logging Out

In order to log out, the user can either click the File > Logout menu option, or click on the doorway icon in the upper right corner of the page (if available).



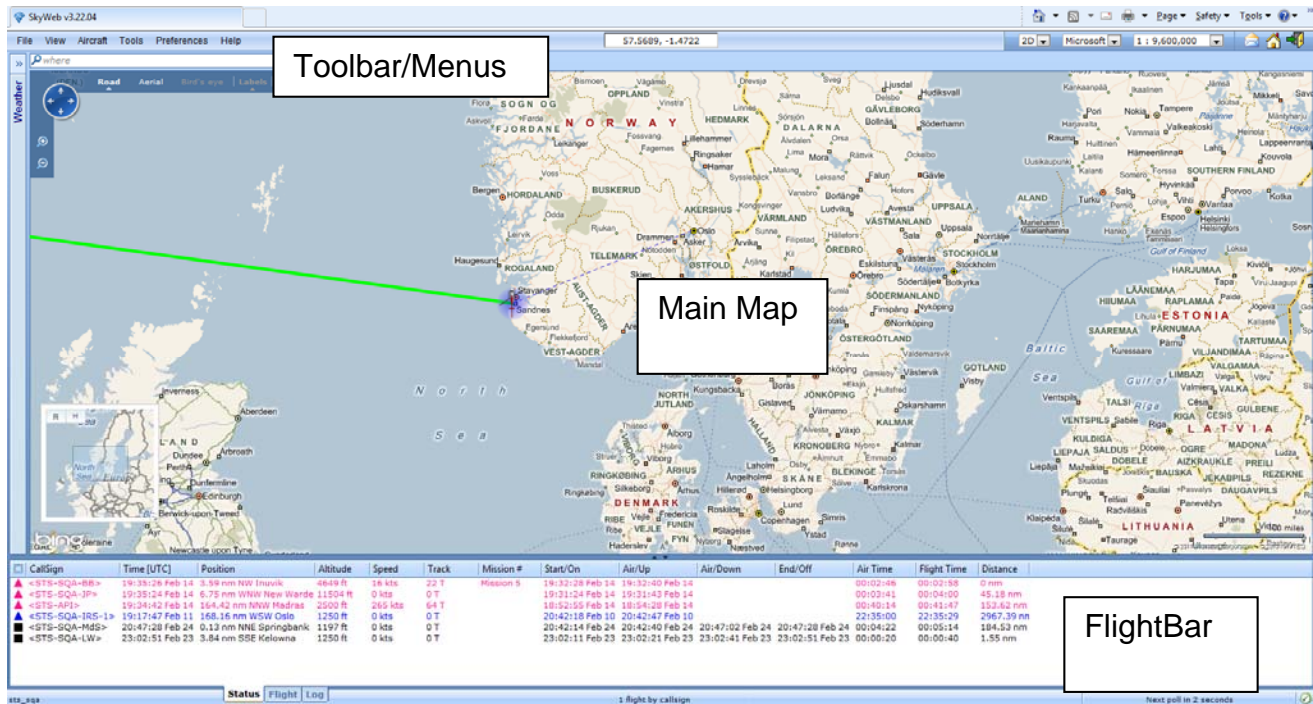
Note:

If the SkyWeb window is closed without using one of the logout options, the Session will remain active for five minutes before that account can be accessed again.

2.3 Areas of the SkyWeb Window

Once the user has selected the data to load they will be presented with the SkyWeb window. This window consists of three main areas:

- The Toolbar/Menu
- The Main Map
- The FlightBar



2.4 Navigating the Map

There are a number of ways to navigate around the map:

- The navigation tools in the Dashboard (see Section 3.2.6).
- The map can be dragged to the required location by clicking on it with the mouse and then holding the mouse button down whilst dragging it across the map. The map will then move with the mouse.

Clicking and dragging the rectangle in the Overview Map (see Section 3.2.7)

2.5 Latitude & Longitude



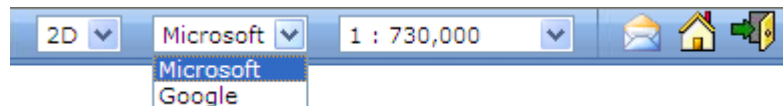
Located in the toolbar is a Latitude and Longitude indicator. As the mouse is moved around the map the latitude and longitude will change to give its current location.

2.6 2D/3D View

By selecting the relevant option in the toolbar; Microsoft's mapping can be displayed in either a two or three dimensional view. In the 3D view, additional tilt buttons will be available in the Dashboard (see Section 3.2.6). The first time the 3D view is selected, the user may be required to download and install Microsoft's 3D add-on.

2.7 Mapping

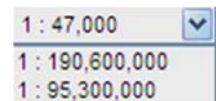
From the drop-down menu the user can select to use either Google or Microsoft's mapping.



If these options have not been used before, the user may be requested to download additional plug-ins.

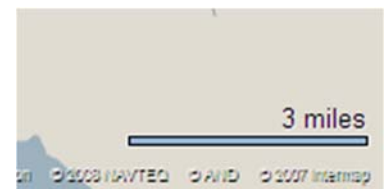
2.8 Zoom/Scale

The user can zoom in and out using the mouse wheel or the (+) and (-) icons on the dashboard. To zoom directly in to an area of interest the user can double-click on that area of the map.



The Scale of the map can be selected directly from the toolbar if required:

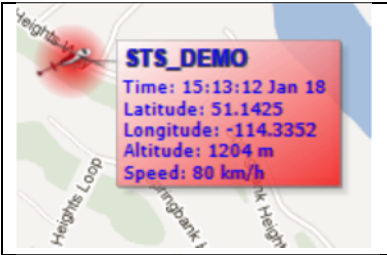
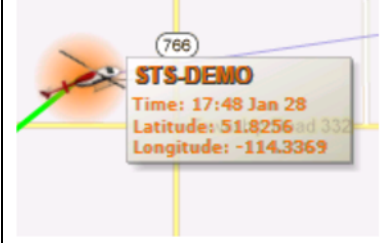
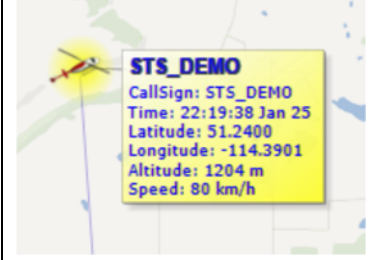



The current scale is indicated in the bottom right corner of the map. This scale reading will change as the user zooms in or out.



2.9 Colour Codes

SkyWeb uses colour codes to provide the user with a quick guide to the status of an aircraft:

| Icon | Colour | Remarks |
|---|--------|--|
|  | Black | Aircraft powered down on the ground at its last known location. |
|  | Brown | Powered-up on the ground (if skids/wheels switch wired and configured) |
|  | Purple | On the ground and in Mission (if mission switch wired and configured) |
|  | Blue | In flight |
|  | Pink | In flight and in Mission |
|  | Green | Aircraft is on a voice call |

| | | |
|--|------------|--|
|  <p>STS_DEMO Time: 15:13:12 Jan 18 Latitude: 51.1425 Longitude: -114.3352 Altitude: 1204 m Speed: 80 km/h</p> | Red | Emergency |
|  <p>STS_DEMO Time: 17:48 Jan 28 Latitude: 51.8256 Longitude: -114.3369</p> | Orange | Reports are overdue |
|  <p>STS_DEMO CallSign: STS_DEMO Time: 22:19:38 Jan 25 Latitude: 51.2400 Longitude: -114.3901 Altitude: 1204 m Speed: 80 km/h</p> | Yellow | Two shades of yellow highlighting are used to indicate a Geofence  or FlightWatch violation  |
|  <p>STS- Time: Latitu Longi</p> | Encryption | A padlock symbol is added to the standard icon when the asset is sending encrypted data. A padlock icon also appears in the FlightBar |




These colours are used in the aircraft caption box, the preview box, the status box, the aircraft icons and in the FlightBar.

3 TOOLBAR MENU ITEMS

3.1 File Menu

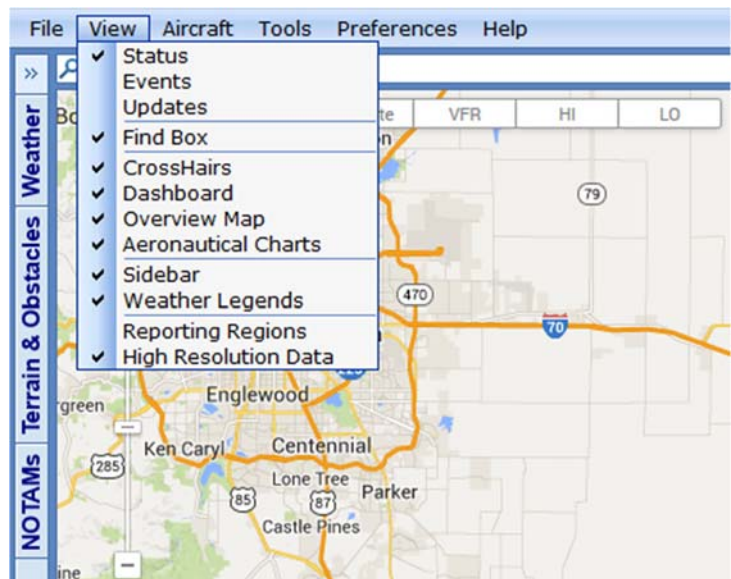


Some menu items also have buttons associated with them.

| Menu | Sub-Menu | Button | Remarks |
|------|----------------|---|---|
| File | SkyMail... |  | Allows for text messaging to and from aircraft. Only available to users that have Full Access. See Section 5 for details |
| | Save Settings | | Save current interface configuration settings without exiting |
| | Reload Data... | | Brings up the Load Data dialog (Section 2.2.2) so the user can change resources and amount of data viewed |
| | Print Log... | | Opens a new web browser window with the information exactly as displayed in the active FlightBar tab |
| | Home |  | Takes users with only Flight Following access to the Load Data dialog. Users with multiple SkyWeb privileges will be taken to the Main Menu |
| | Logout |  | Logs out the user as per Section 2.2.3 |

3.2 View Menu

The View Menu shows or hides information overlays on the map. These information boxes are described below.



3.2.1 Status

Selecting this option will cause the status of the selected flights to be displayed in tabulated form in the top right corner of the screen.



| Not all assets displayed! | | | | | | |
|---------------------------|------------|-------------------|-----------|-----------|--------------|--|
| Mayday | Voice-Call | Mission/In-Flight | In-Flight | On-Ground | Powered-Down | |
| 0 | 0 | 1 | 6 | 1 | 2 | |

The 'Overdue' field will show if there is a delay in receiving a report that exceeds the setting the user has configured for Alarms, see Section 3.5.1. The 'Inactive' field represents units that have been assigned to the user account but have not yet been activated.

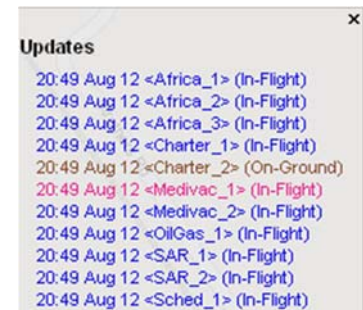
3.2.2 Events

Selecting this option will cause new flight events to be displayed near the top right corner of the screen as they are received.



3.2.3 Updates

Selecting this option will cause new incoming position reports to be displayed (near the top right corner of the screen) as they are received. They will be colour coded using the same colour scheme as the position log.



3.2.4 Find Box

The Find Box enables a user to search for a specific location, address or business on the map. If selected it will be displayed at the bottom of the SkyWeb window.



3.2.5 Crosshairs

Selecting this option causes crosshairs to appear at the centre of the current map view:



3.2.6 Dashboard

The dashboard provides alternate ways to navigate the map and the ability to change map view:

Microsoft Dashboard



Google Dashboard

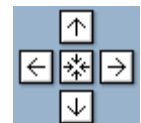


3.2.6.1 Map Navigation

Selecting an arrowhead with the mouse will cause the map to move in that direction. This can also be achieved by clicking on the map itself and dragging it to the required location. For larger shifts it is easier to use the Overview Map (see Section 3.2.7).



The Google navigation arrows work in similar way with the addition of the center square of arrowheads, which (if clicked) will take the user back to the last result.



3.2.6.2 Zoom Controls

If the user clicks and holds on the relevant zoom control in the dashboard, the map will zoom in (or out) until the button is released.



The Google zoom control (far right) has the addition of a slider that can be dragged to increase or decrease the zoom level.



3.2.6.3 Microsoft 3D Controls

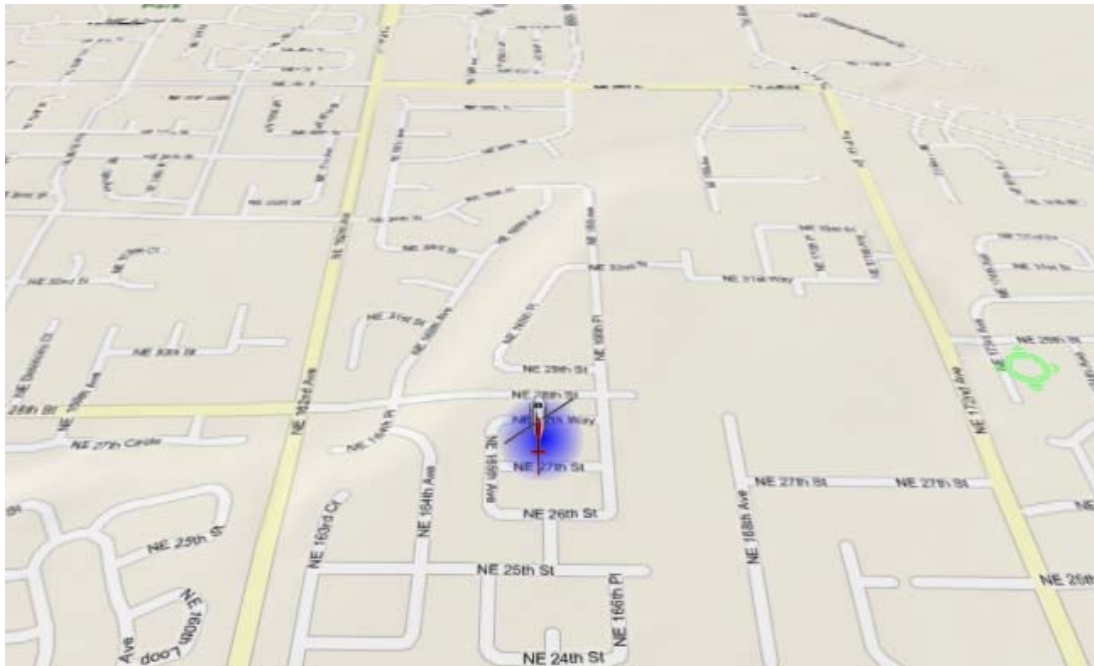
3.2.6.3.1 Camera Rotation

In 'Birds Eye' view (only available in 2D mode) the user will also see the addition of the camera rotation buttons. These will enable the user to rotate the image in the relevant direction:



3.2.6.3.2 Tilt Controls

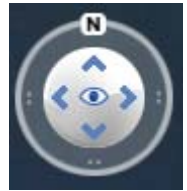
Another addition to the Dashboard is the tilt controls. These become visible when the 3D option has been selected (see Section 2.6). By selecting the relevant button the map will be displayed as if being viewed from a lesser or greater angle:



3.2.6.4 Google 3D Controls

3.2.6.4.1 Map Orientation

The 'N' at the top of the compass circle can be dragged around the circle and the orientation of the map view will move with it. It will therefore indicate the direction of North. If it is clicked once it will reorient the view with North at the top.



3.2.6.4.2 Panning and Zooming

The arrowheads will pan the view when clicked. Therefore if the upward pointing arrowhead is clicked then the view will move as if looking upwards etc. The point that the view is taken from will remain static. This gives a similar view to the tilt controls explained above.



When clicked, the arrowheads in the lower circle will change the location of the viewing point in the direction of that arrow.

The zoom control in 3D mode works in a similar way to the 2D version.

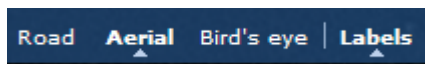


3.2.6.5 Microsoft Views

There are three ways to view the Microsoft map; Road, Aerial, and Birds Eye.

Note:

The 'Aerial' and 'Bird's Eye' options are dependent on image coverage and are not always available at certain zoom levels.



Road:



Aerial:



Birds Eye:



3.2.6.5.1 Labels

Selecting the 'Labels' option will show or remove the Road/Landmark names in the Aerial and Bird's Eye views. This information is always displayed in the Road view.

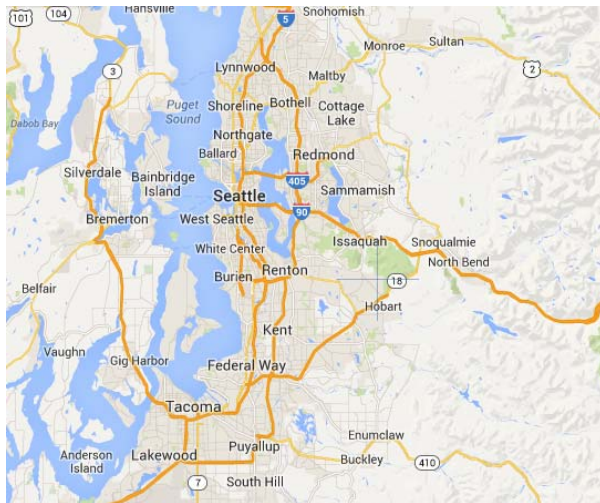
3.2.6.6 Google Views

There are several different options to view the Google maps:

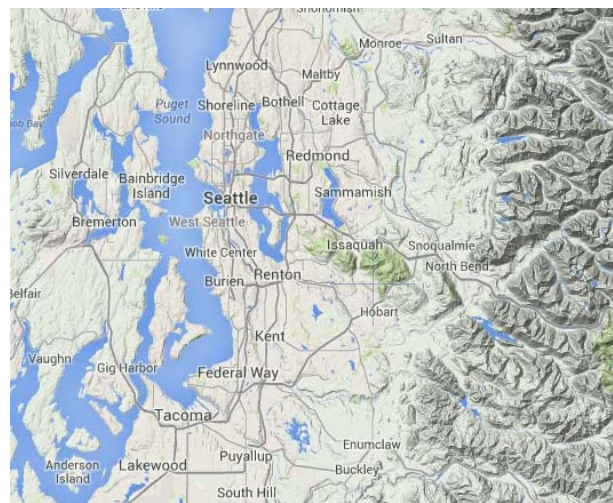


Map, Terrain and Satellite (with or without labels) options are standard features in SkyWeb.

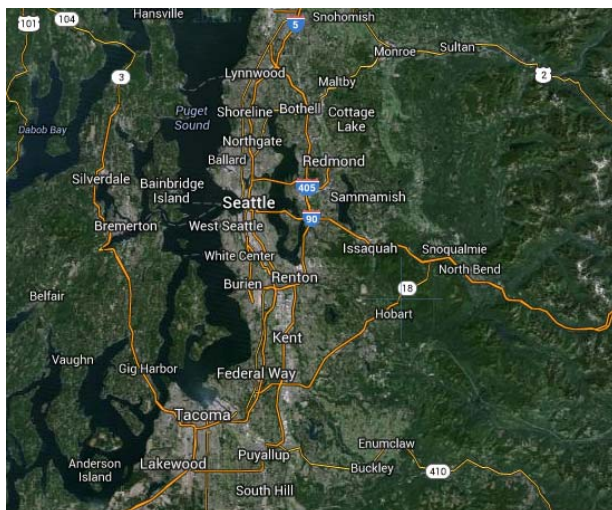
Map:



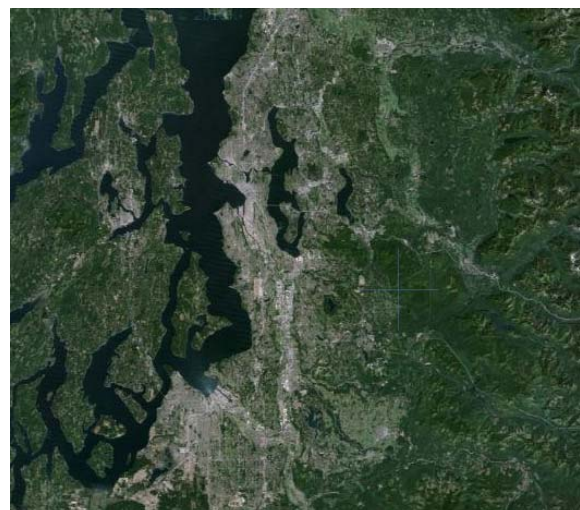
Terrain:



Satellite (with labels)



Satellite (without labels):



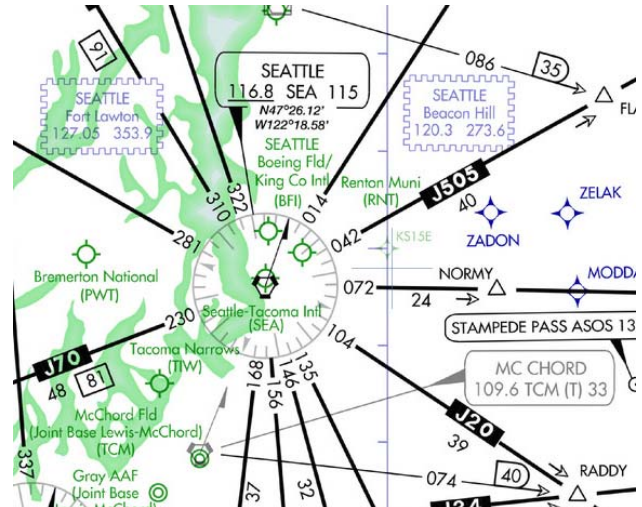
Value-added mapping features include Aeronautical charts: VFR and IFR maps (High Altitude and Low Altitude.)

Contact your Program Manager to enable these features for your maps.

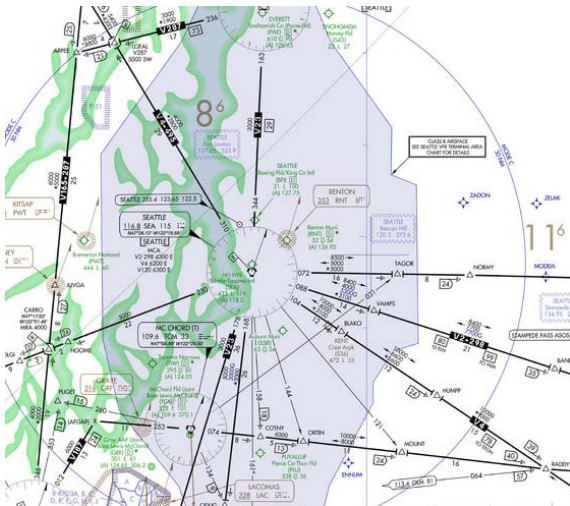
VFR



High Altitude



Low Altitude



3.2.7 Overview Map

This option provides the user with an overview of the area of the map that they are currently looking at. This is particularly useful if they are currently zoomed in to a specific area but also wish to see where they are in overall terms. It can also be used to navigate the map. By clicking on the rectangle and dragging it with the mouse the main map can be shifted to the relevant area of interest.



3.2.8 Aeronautical Charts

Displays the VFR, HI and LO options in the menu bar, to access the current aeronautical charts on the map. Only users that have been allocated this role by the Program Manager will be able to view these maps.



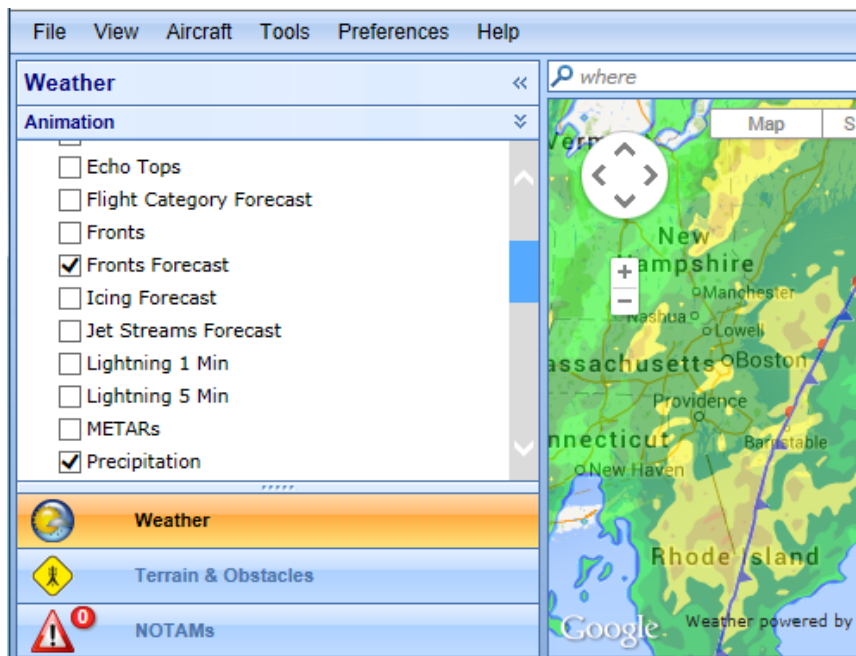
Note, this feature is only enabled for Google Maps. Microsoft Maps is not supported at this time.

3.2.9 Sidebar

If this option is selected the Sidebar will be visible on the left hand side of the screen. The Sidebar contains the settings for Weather, Terrain and Obstacle Data and NOTAMS.

Only those users that have been allocated these roles by the Program Manager will be able to configure it.

See Section 3.7 for complete instructions of the features available in the Sidebar.



3.2.10 Weather Legends

Displays the legend outlining the various weather features.

3.2.11 Reporting Regions

Reporting Regions are used to designate regions on the map that assets are operating in. They are used to generate reports based on asset movements inside different regions and keep them separate from other assets.

If checked, any Reporting Regions created in the Administration page will be displayed on the map. Data for assets in these regions is available on the Reports section of SkyWeb.

3.2.12 High Resolution Data (ISAT 200A Only)

High Resolution Data is a value-added service. It is enabled on a per user account basis by your Program Manager in the Account Management section of SkyWeb.

If this option is selected then the High Resolution Data will be visible on the map and in the Log data.

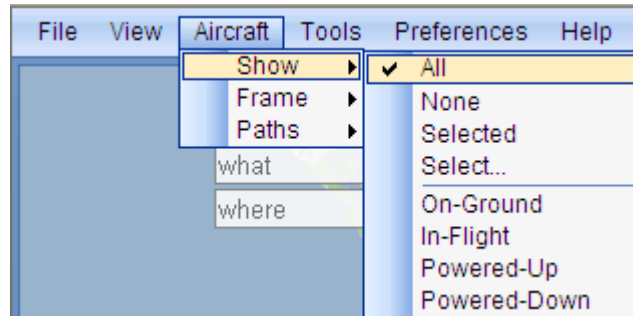
3.3 Aircraft Menu

The Aircraft menu provides a means to follow specific resources and add additional information to the map such as flight paths and event locations.

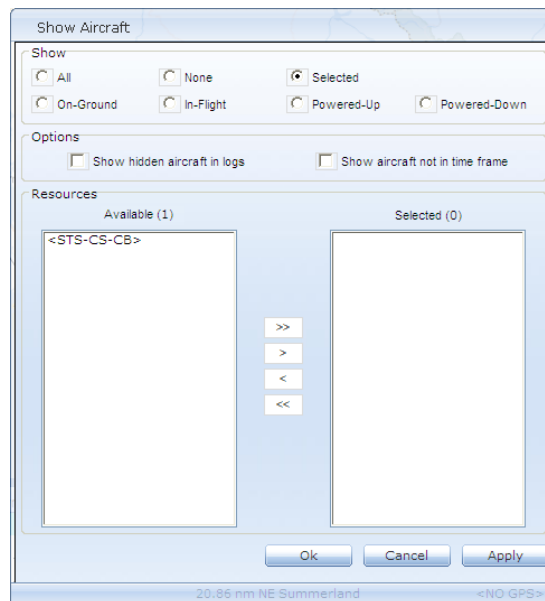
| Menu | Sub-Menu | Remarks |
|-------|--------------|--|
| Show | All | All resources (from the data originally loaded) will be displayed |
| | None | Hides all aircraft from the map and flight bar |
| | Selected | Corresponds with the 'Select' Option below |
| | Select... | The user selects the required aircraft from the 'Show Aircraft' dialog box (see below) |
| | | |
| | On-Ground | Only show resources powered up but not in the air |
| | In-Flight | Only show resources in the air |
| | Powered-Up | Show resources power up in any state of flight |
| | Powered-Down | Only show resources that are not powered up |
| | | |
| Frame | All | All resources (from the data originally loaded) will be displayed |
| | Selected | Only resources set in the 'Select' Option below |
| | Select... | The user selects the required aircraft from the 'Frame Aircraft' dialog box (see below) |
| | | |
| Paths | All | Show flight paths for all resources originally loaded |
| | None | Do not display any flight paths |
| | Selected | Only resources set in the 'Select' Option below |
| | Select... | The user selects the required aircraft from the 'Aircraft Flight Paths' dialog box (see below) |

3.3.1 Show

The Show Menu corresponds to the information in the FlightBar at the bottom of the screen.

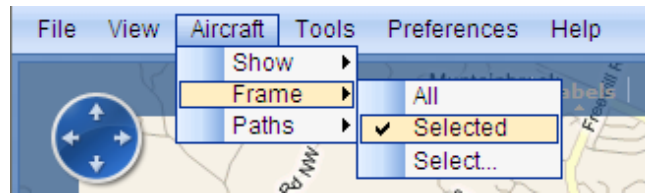


If the user chooses the 'Select ...' option the 'Show Aircraft' dialog box will appear. From this box the user can select the resource(s) they would like to see. They can either select a single option from the 'Show' area or select specific aircraft in the 'Resources' area.

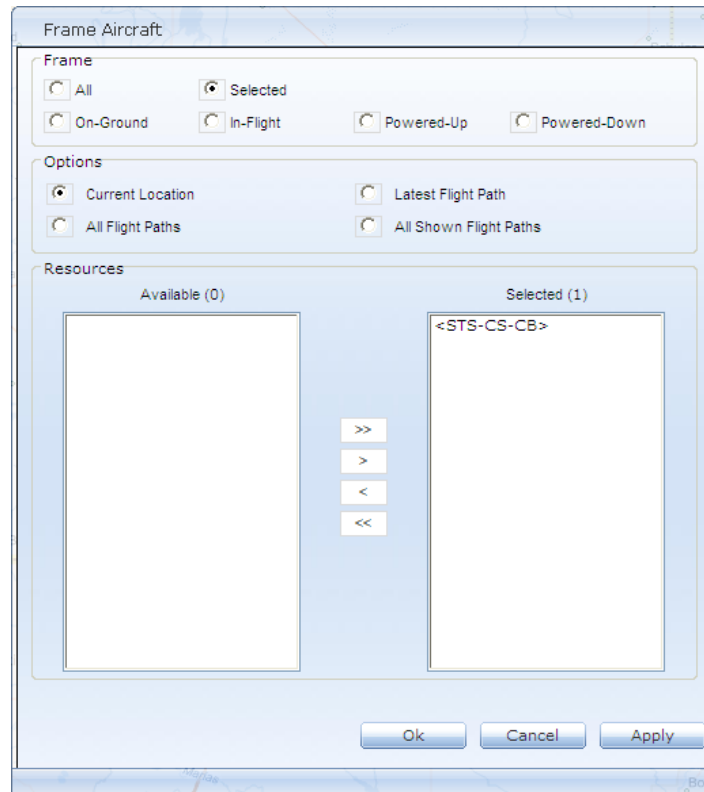


The user also has the option to include those aircraft that are currently not displayed on their screen in logs and also show aircraft that are not within the current time frame.

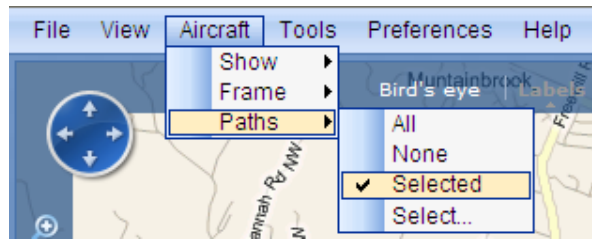
3.3.2 Frame



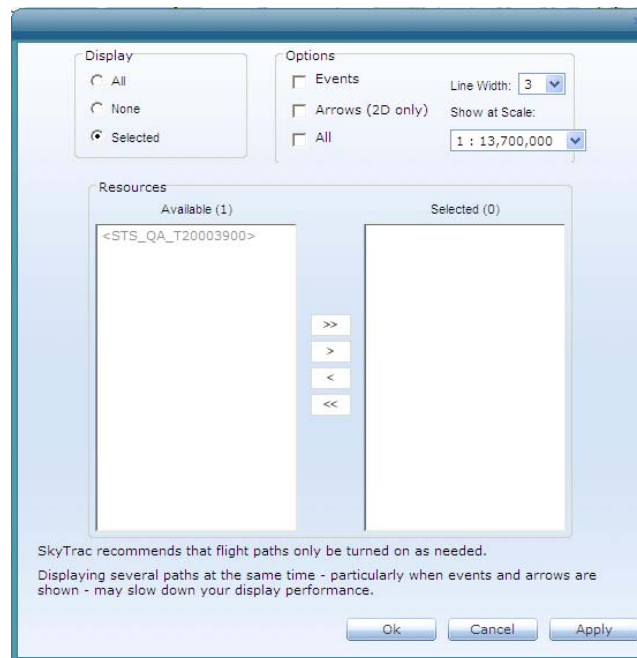
Framing will automatically center the map on the chosen resource(s) for a single instance. The user can frame the current location, the start location, or the entire flight path, as well as limit the frame based on the resources' state (e.g. In-Flight).



3.3.3 Paths

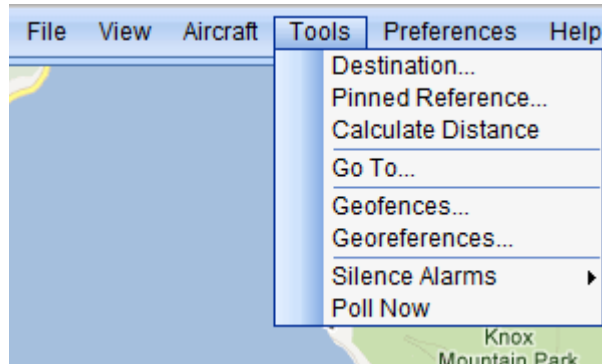


Paths will show or hide the flight paths of the chosen resource(s) and can also have Events (e.g. Voice call or Power Up/Down) and arrows shown.



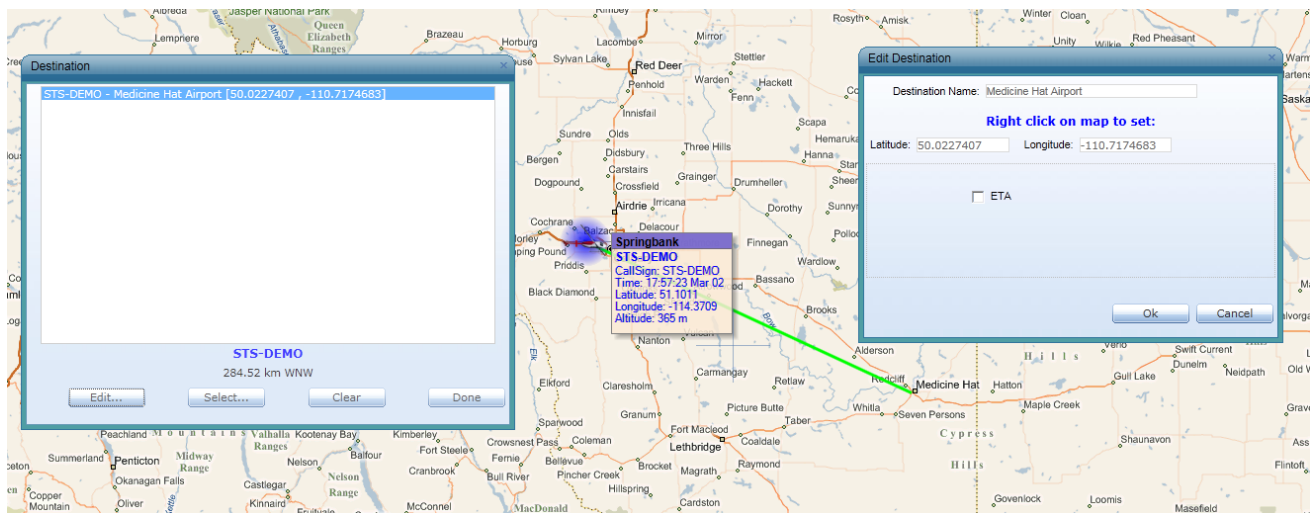
Note: Adding paths, events and arrows all use the computer's resources and could slow the display performance when applied to a larger number of resources.

3.4 Tools Menu



3.4.1 Destination...

This will show the projected flight path from the selected aircraft to a point clicked on the map. In the Destination dialogue box the user can select the required aircraft. They can then either click 'Edit' to enter the details of a destination (name, location and radius of the destination circle) and specify an ETA, or they can click 'Select' to choose one from the geo-reference list. If they have previously set a destination/ETA they can either select 'Clear' to remove it or use 'Edit' to change the details.



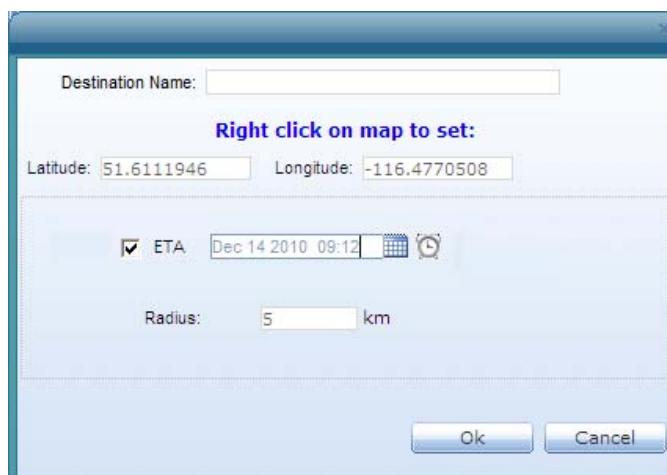
If the 'Edit' option is selected - the user can right-click on the map to set the destination location. They also have the option to name the destination location. Now that a destination has been set the information will be available to be included in the FlightBar and the ETA will be relevant to the destination. These options are not available in 3D mode.

3.4.1.1 ETA

When the user sets a destination, the ETA column will have a time and countdown in it based on the current speed and distance the aircraft is from the destination. The user also has the option to enter a specific estimated time of arrival. If the aircraft is not in the destination area (the circular area defined by the radius) at the specified time they can be warned by a pop-up, and/or audible alarm. They can also configure a list of email addresses that are to be warned when this occurs. The ETA email notification list is entered in the Administration section of SkyWeb and covered in the Administrator's Guide.



When the user has the Destination box on the screen they can either use the Select button to select a geographic point as the destination or they can select the Edit button to enter their own location:



Right-clicking on the map will set the destination as a Lat and Long. The user can then give it a name. They can set the ETA using the calendar and time field. They can also now set the radius for a circle encompassing the destination location. It is this area that the aircraft must be in at the set time. If it is not - the alarms (if they have been configured) will be generated.

3.4.2 Pinned Reference

Normally the reference displayed/used in the logs for any particular asset is the reference closest to it. As the asset moves closer to the next reference - the reference in the logs will then change to again show that which is closest to it.

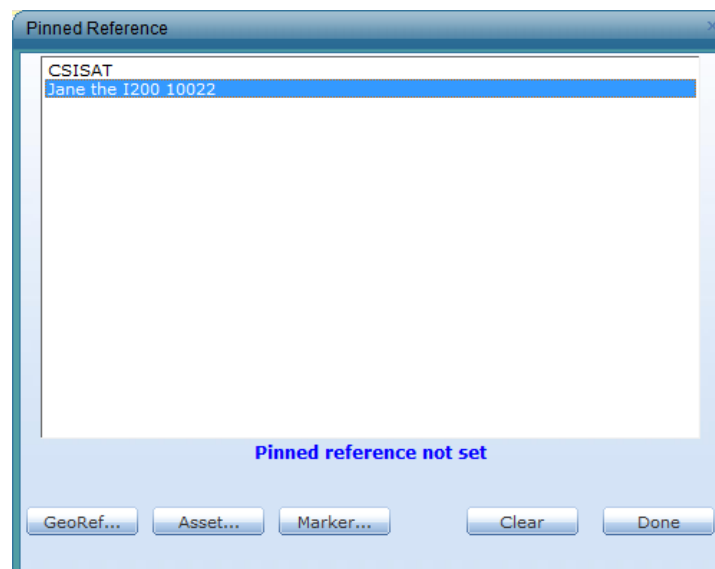
A pinned reference is a reference that remains 'tied' to an asset until the user decides to clear it.

The reference used can be either:

- A Georeference
- Another Asset
- A Marker

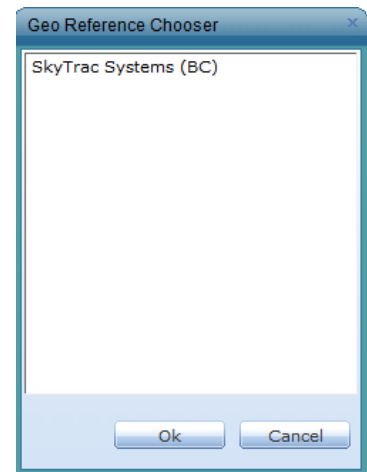
As long as the markers & Georeferences have previously been set-up in SkyWeb then either these or a unit/asset can be selected. The procedure is as follows:

Select the 'Pinned Reference' option from either the Right-Click or Tools menu.



3.4.2.1 Geo Reference Chooser

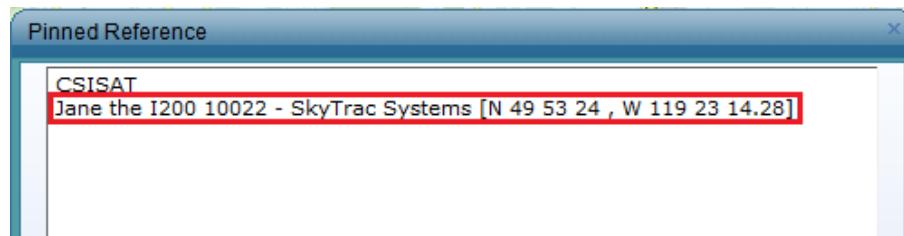
From the list of assets displayed - select the asset to set the pinned reference for. Then select the type of pinned reference (GeoRef / Asset / Marker). The user will be presented with a list to choose from. In this example the user has selected to use a Geo Reference. Selecting the required reference will then pin it for the previously selected asset/unit.



This reference will now appear in the log as a pinned reference:

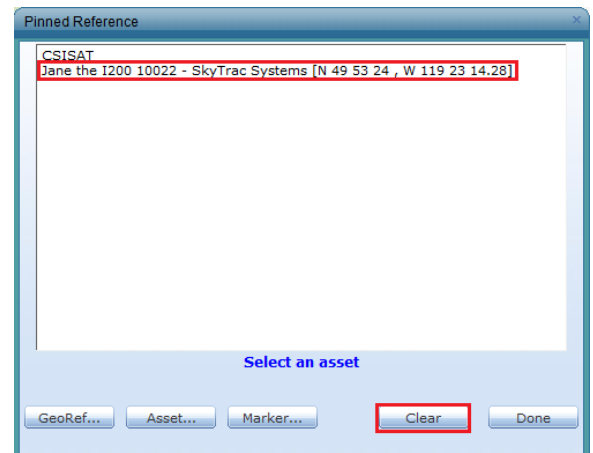
| CallSign | Time [UTC] | Position |
|---------------------|-----------------|---------------------------|
| Jane the I200 10022 | 16:56:05 Aug 23 | 0.97 nm E SkyTrac Systems |

Also, selecting Tools>Pinned Reference will show this reference against the unit/asset:



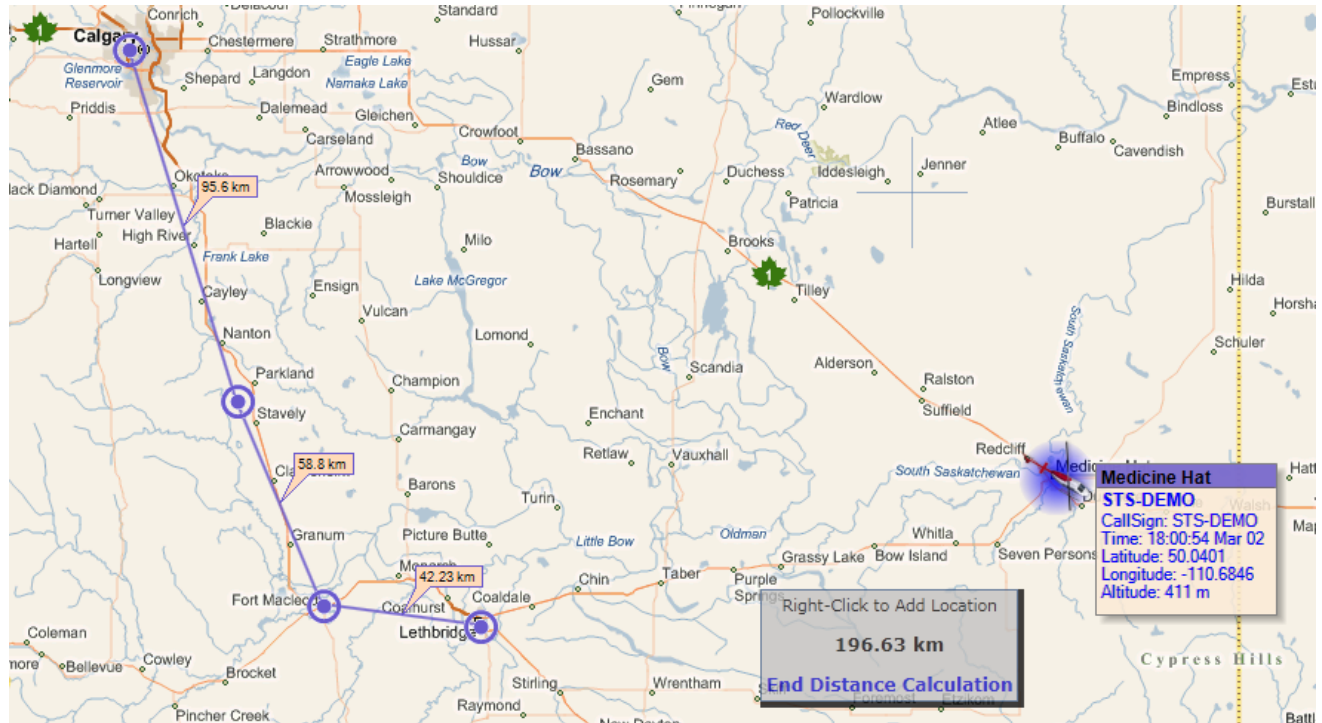
3.4.2.2 Clearing Pinned References

This can either be achieved by selecting the unit and then the 'Clear Pinned Reference' option from the right-click menu, or by selecting Tools>Pinned Reference then the relevant unit in the list followed by the 'Clear' button.



3.4.3 Calculate Distance

By selecting this option and then right-clicking on locations on the map – a line will be drawn on the map for each leg of the calculation. The total distance will be calculated and displayed in a box at the bottom of the map. This option is not available in 3D mode.



Each of the legs will be calculated separately and displayed on the map (as shown above). At the base of the map the following box will be displayed:

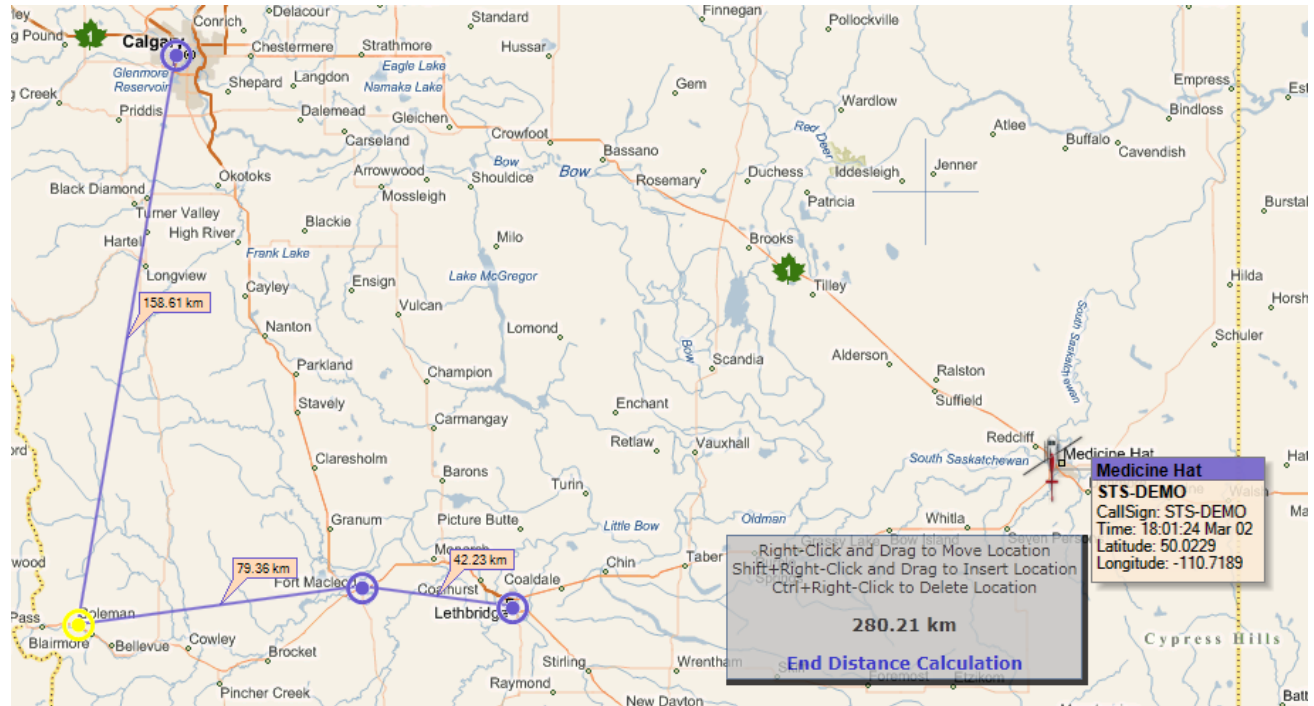
Right-Click to Add Location
161.04 nm
End Distance Calculation

It includes the total distance calculation. If the user then hovers the mouse over one of the dots on the line – additional options will appear:

Right-Click to Move Location
 Shift+Right-Click to Insert Location
 Ctrl+Right-Click to Delete Location
179.47 nm
End Distance Calculation

3.4.3.1 Right-Click to Move Location

If the user Right Clicks on one of the points along the line and at the same time drags the mouse then the point will move with it. This will then relocate that leg of the distance calculation.



3.4.3.2 Shift + Right-Click to Insert Location

If the user hovers the mouse over one of the points on the line and then uses the Shift+Right-Click combination whilst dragging the mouse, a new point will be created that will move with the mouse until the right-click button is released.

3.4.3.3 Ctrl + Right-Click to Delete Location

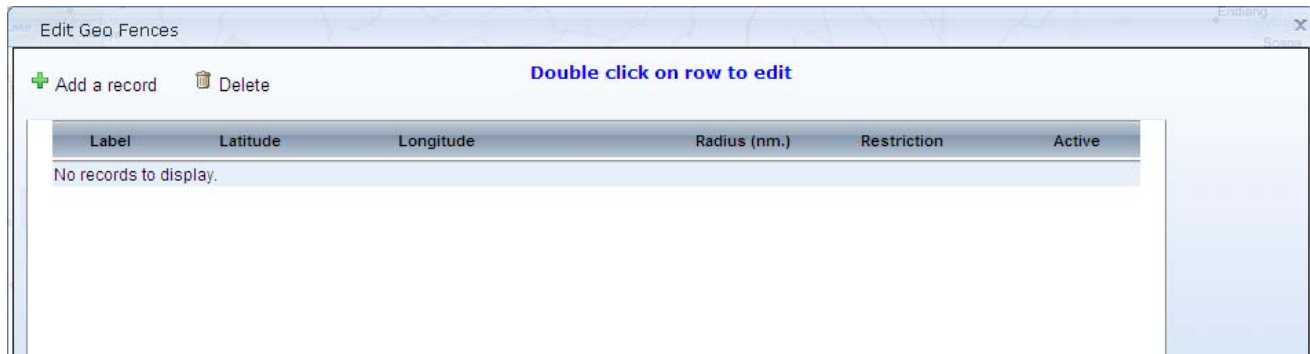
If the user hovers the mouse over one of the points and then uses this combination the point will be deleted.

3.4.4 Go To...

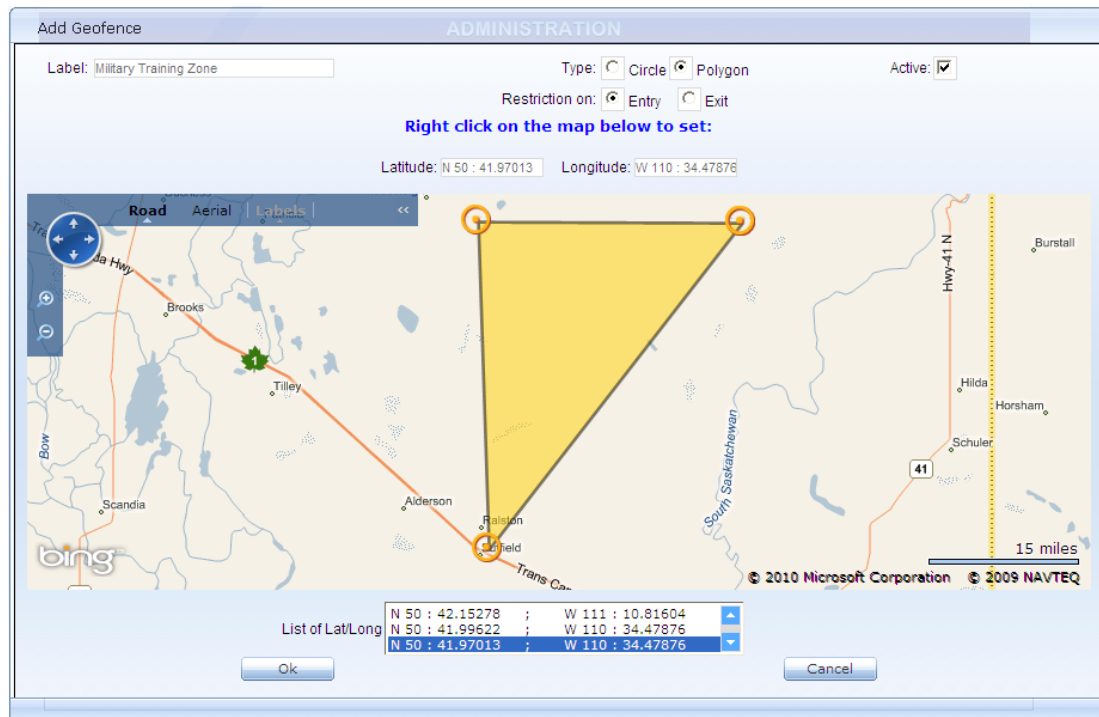
Selecting this option will cause a list of the user's custom geographic reference points to be displayed. The user can then select the relevant point and the map will automatically move to it.

3.4.5 Geofences...

A Geofence is an area that can be marked on the map and have alerts and notifications generated if an aircraft enters or leaves it.



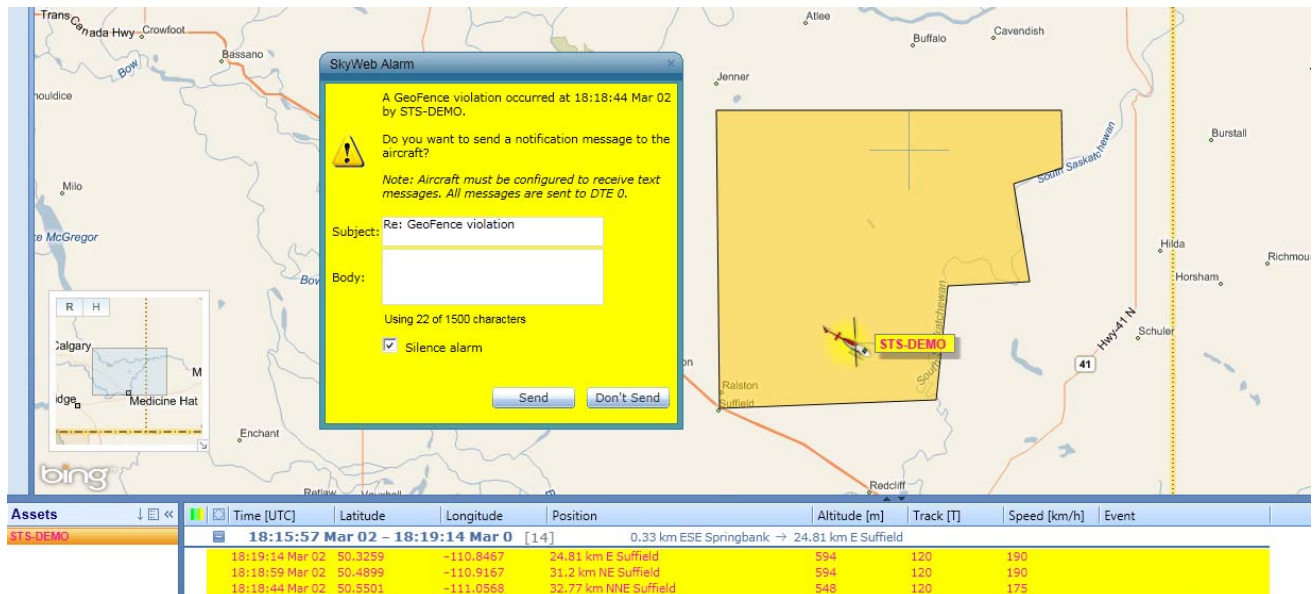
If any previous geofences had been created they would be listed here. To add a geofence the user selects the 'Add a record' option.



The user enters a Geofence label by which to identify it. They must then decide whether the geofence is to be a circle or a polygon and select the relevant radio button. If it is to be a circle then it will require the user to enter a radius for the circle. Right-clicking on the map will then cause the center of the circle to be placed at that location.

If it is to be a polygon then each right-click on the map will locate a point for the polygon (see above image). The user can specify whether the geofence is currently 'Active' or not and whether the restriction on it is to be when a unit enters or exits the geofence.

Selecting OK will add the geofence to the list and also (if it is active) display it on the flight following map. When a resource violates a Geofence, its caption, and also the position information in the FlightBar will be highlighted in a bright yellow.



An audible and visual alarm can also be displayed (if required). These are configured in the Preferences Menu.

3.4.6 Georeferences...

This section allows for the addition of custom reference points onto the map. This can include points that may not be on a standard map such as helipads, oil platforms, hospitals, runways, etc. These points will be shown in the Flight Bar's Position column as a relative position to the aircrafts location (i.e. 4.3nm SE Vancouver Intl).

All reference points that are added will be seen by all accounts created under the company name. The user selects 'Geographic References' from the column on the left side of the Administration page. To add a new point the user must click 'Add a Record'.

| Edit Geo References | | | | | | | Updates |
|---------------------|-------|---------|---------------|-----------------------------|---------|---------------|----------------|
| + Add a record | | Delete | | Double click on row to edit | | | |
| Name | Ident | Region | Latitude | Longitude | Type | Show at Scale | Display on Map |
| STS | | Kelowna | N 49 53 23.96 | W 119 23 16.18 | Default | 1 : 350,000 | True |
| City Park | | Kelowna | N 49 53 2.06 | W 119 30 12.08 | Default | 1 : 700,000 | True |

To remove a reference point, the user must select the entry from the list and click 'Delete'.

To edit an existing reference point, they must double-click on the entry and make the appropriate changes.

Edit Georeference


Name: Display on Map: ☒

Ident: (optional) Show at Scale:

Region: Type:

Right click on the map below to set:

Latitude: Longitude:



Ok Cancel

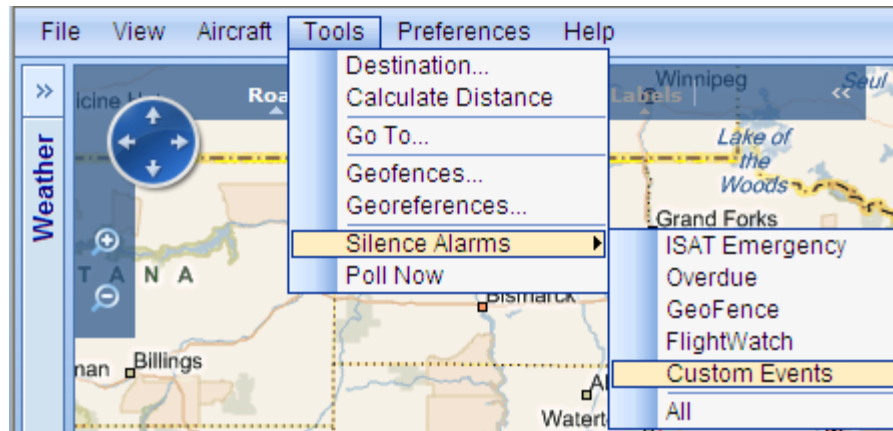
Enter the appropriate information about the reference point:

| Field | Remarks |
|--------------------|---|
| Name | How the reference point is to be labelled |
| Ident | The short name of the reference point (if required) |
| Region | Geographical area (e.g. State, Province or Country) |
| Display on Map | Reference point names will automatically show in the Flight Bar Users have the option to show the created point graphically on the map as well |
| Show at scale | Select the zoom level at which the reference point is to appear on the map |
| Type | Select the icon that will represent the reference point on the map |
| Latitude/Longitude | These values can be typed in directly or users can right-click on the map to add the latitude and longitude values automatically |

Once all of the information has been entered the user must click 'OK' to save the changes.

3.4.7 Silence Alarms

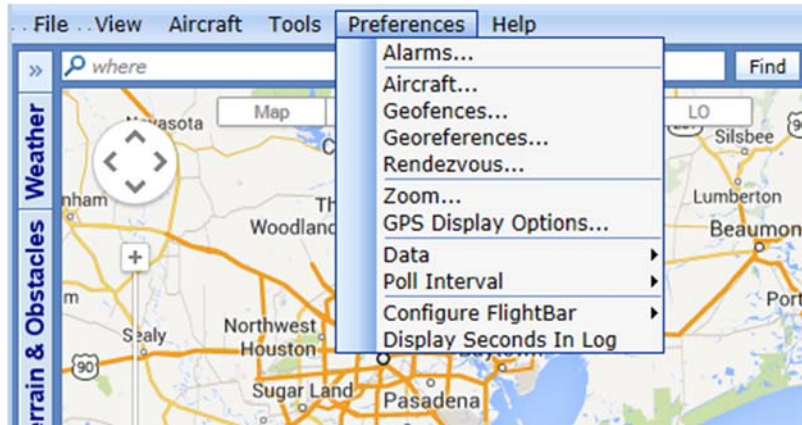
The user has the option to silence the alarms for each of the alarm types or they can choose to silence them all.



3.4.8 Poll Now

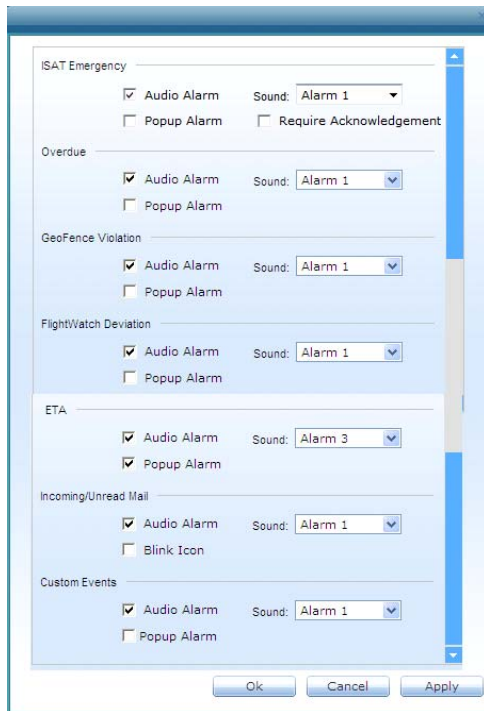
This will force the software to instantly poll the SkyTrac network for any outstanding reports or messages without having to wait for the next poll interval.

3.5 Preferences Menu



3.5.1 Alarms...

The Alarms Menu has the following options



| Options | Remarks |
|-------------|--|
| Audio Alarm | Enables audio notification for relevant event |
| Popup Alarm | Enables a visual notification for relevant event in the form of a window popup |
| Sound | User selected sound for the relevant event |

The alarms can be selected and deselected as required. The alarms can also be managed from the Right-Click menu (Section 0) when the relevant aircraft has been selected.

Important: The user will only receive Overdue alarms for those units that have been configured to receive them (in the Administration Section of SkyWeb)

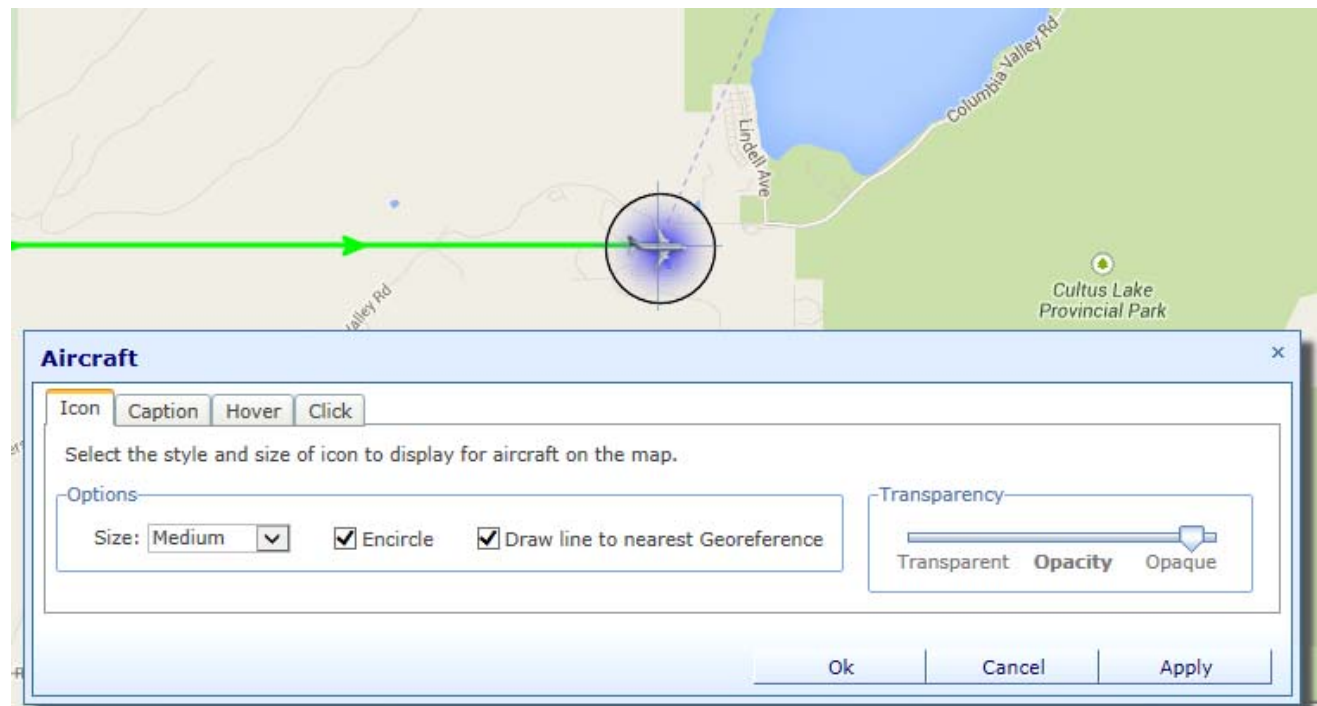
ISAT Emergency has the additional option of 'Require Acknowledgement'. Selecting this will mean that the pop-up message in SkyWeb cannot be closed without a message being sent to the unit first.

3.5.2 Aircraft...

The user can select how they wish to view their aircraft information on the screen. There are options to change the type of aircraft icon and whether captions or status previews are displayed (and if so how much information they should include).

3.5.2.1 Icon Tab

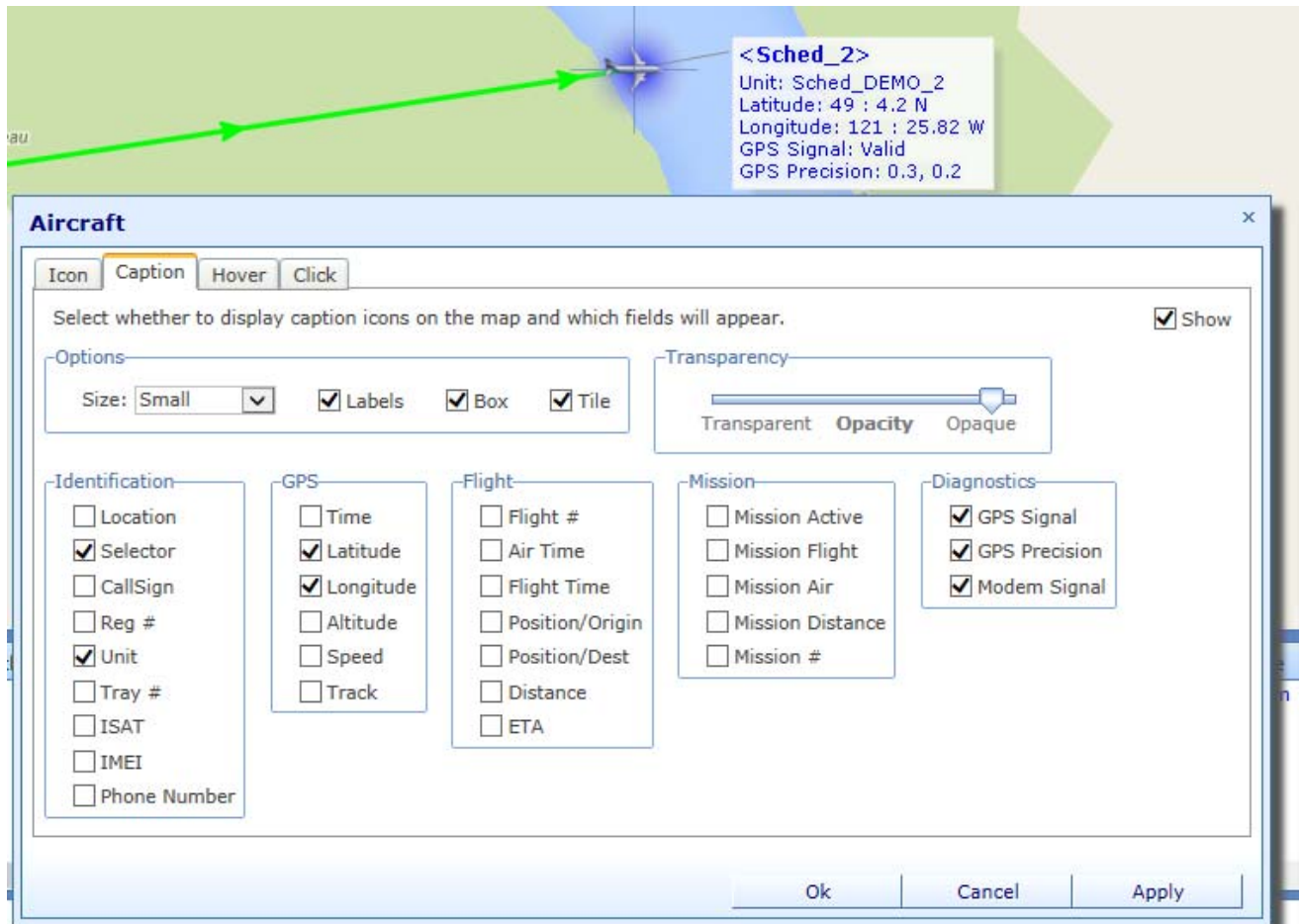
Changes the way the aircraft icon is displayed. The transparency of the icon and the halo can be adjusted.



| Options | Remarks |
|--|---|
| Size: | Varies the size of the icons in SkyWeb |
| Small/Medium/Large/ Very Large/Huge | Relative size of the icon, regardless of zoom level. |
| Automatic | The size will vary as the user changes the zoom level |
| Encircle | The resource icon is surrounded by a circle to increase visibility on the map |
| Draw line to nearest Georeference | Sets the transparency of the icon and the colour halo around it. |

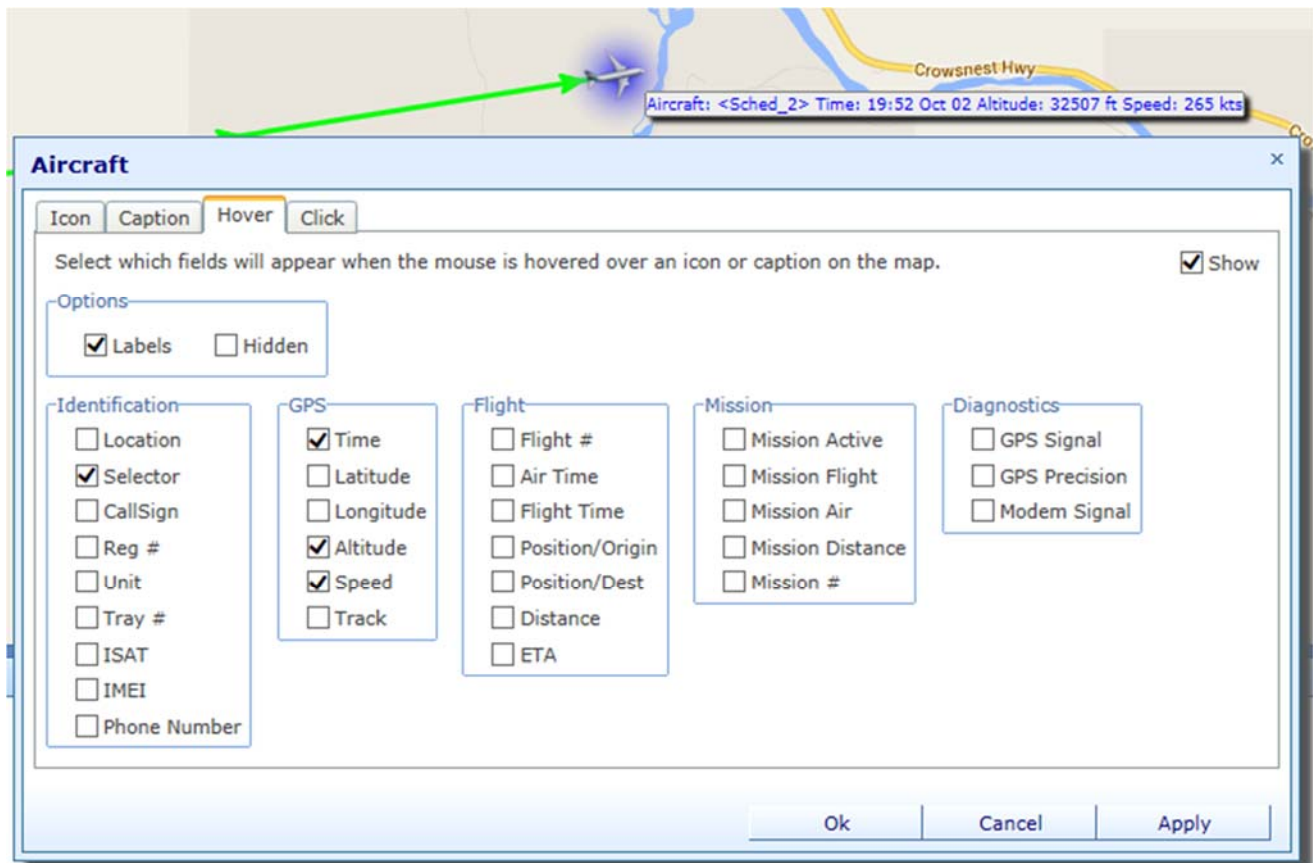
3.5.2.2 Caption Tab

The caption is an information box that follows the aircraft and is visible at all times unless specifically hidden. The transparency of the box can be adjusted. Remove the check mark from the Show box to hide the options and also hide the caption on the map. Click 'Apply' to make the change.



3.5.2.3 Hover Tab

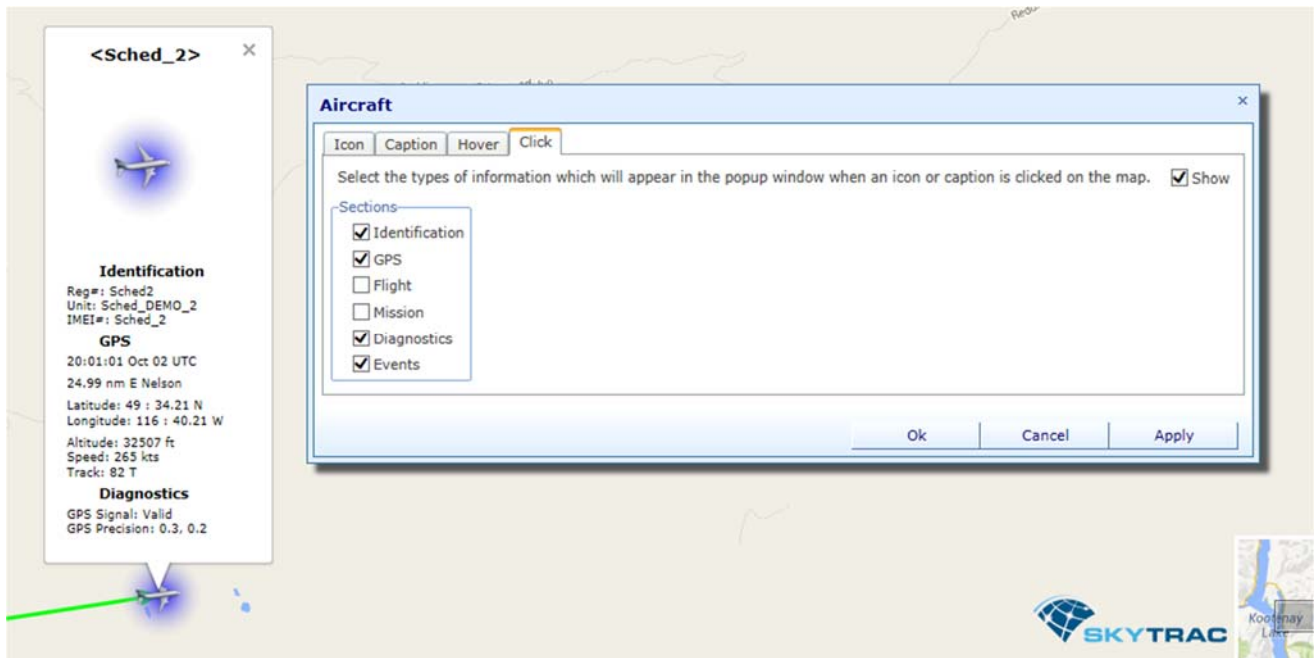
When the mouse is paused over an icon or caption text will be displayed. Remove the check mark from the Show box to hide the hover text on the map. Click 'Apply' to make the change.



3.5.2.4 Click Tab

Displays a popup window with user selectable flight information. Remove the check mark from the Show box to hide the options and also prevent the popup window from appearing on the map. Click 'Apply' to make the change.

The window will automatically close when another position report comes in or the user clicks somewhere else.

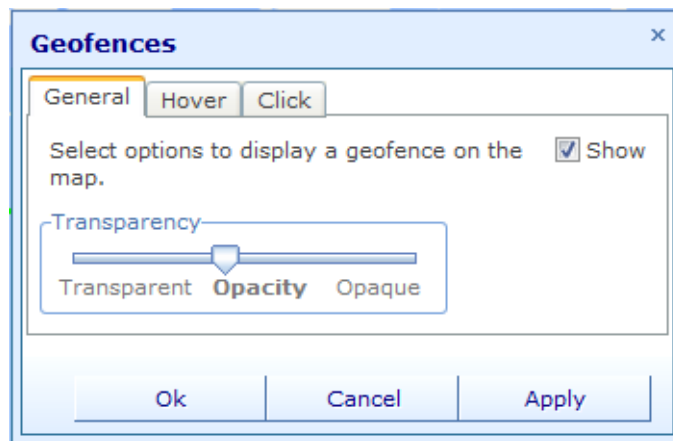


3.5.3 Geofences...

The user can set the preferences they require for the Geofences.

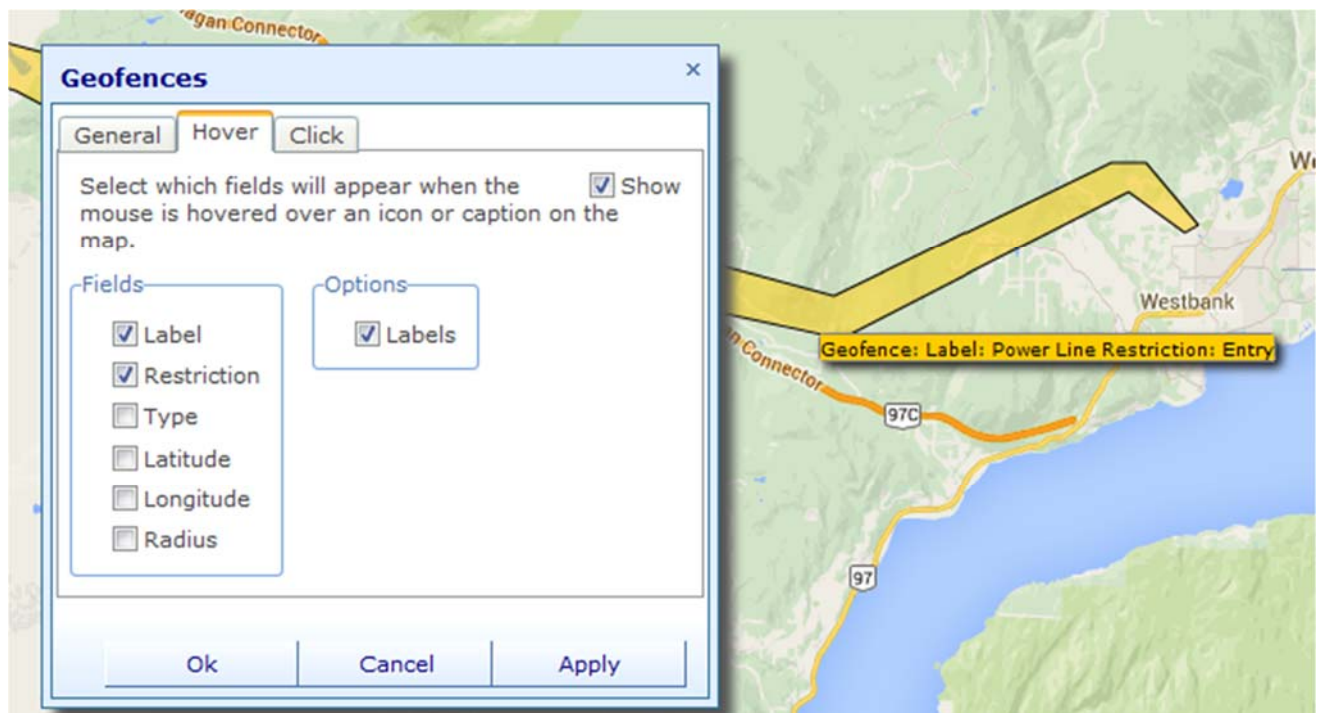
3.5.3.1 General

Set the transparency of the geofences. Remove the check mark from the Show box to hide the options and also hide the geofence on the map. Click 'Apply' to make the change.



3.5.3.2 Hover

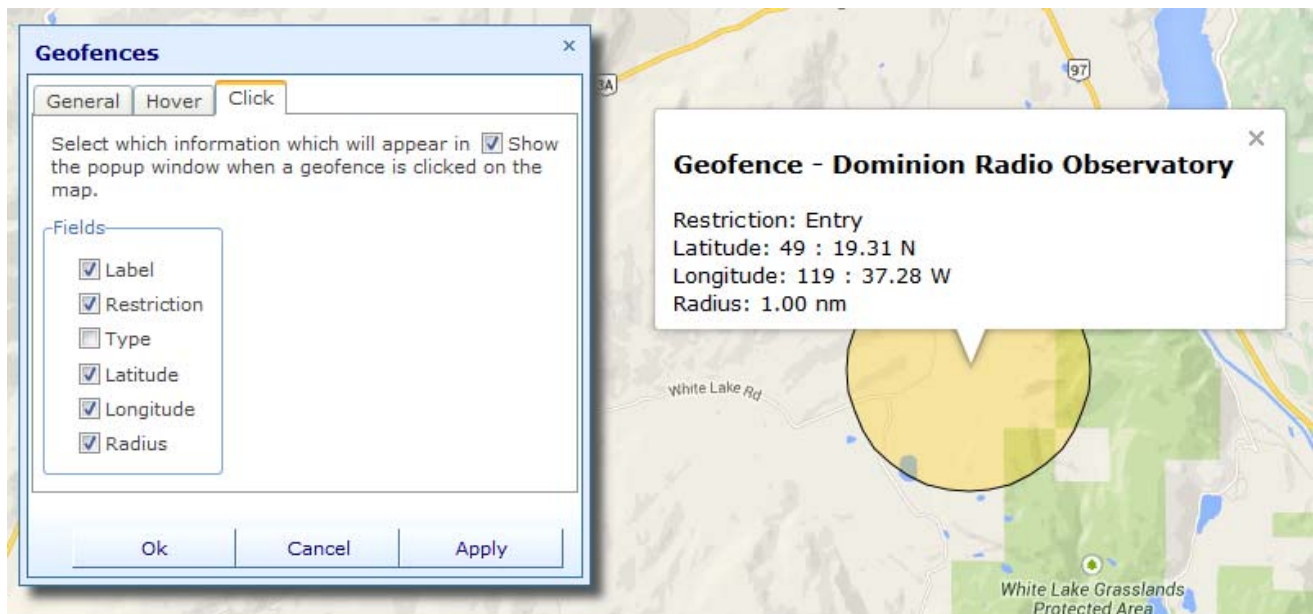
Select the fields to display when the mouse is hovered over any part of the geofences. Remove the check mark from the Show box to hide the options and also hide the text on the map. Click 'Apply' to make the change.



3.5.3.3 Click

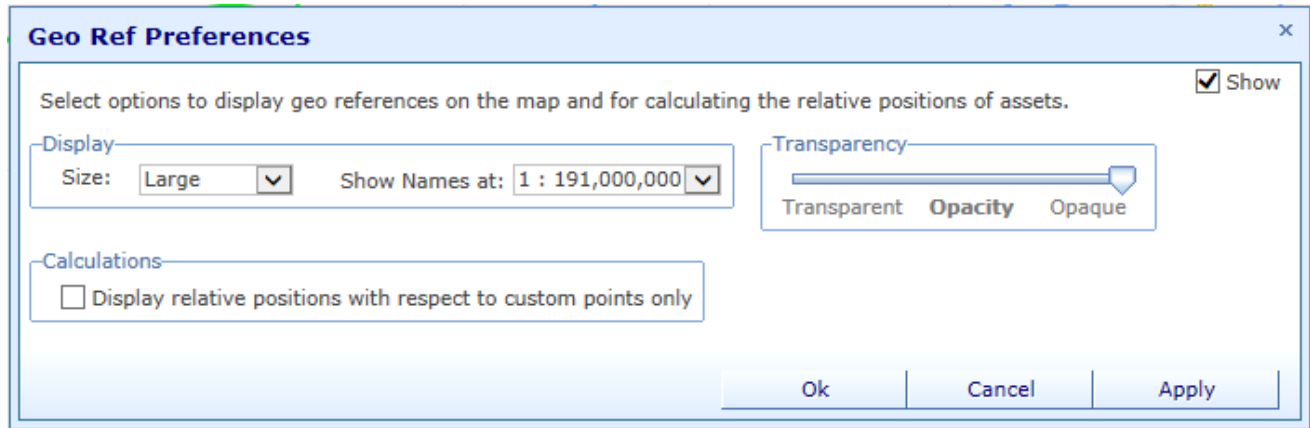
Set the preferences for information displayed in the popup window when the geofence is clicked.

Remove the check mark from the Show box to hide the options and also prevent the popup window from appearing on the map. Click 'Apply' to make the change.



3.5.4 Geo References...

The user can set the preferences they require for the Geo References:



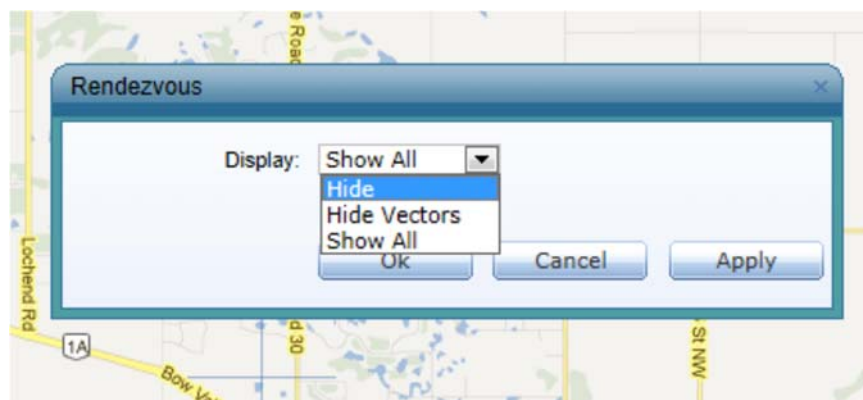
The geo reference points that the user has added (Custom Points) can be displayed on the map if required. The user can also select whether they wish to use those custom points as the points that are referenced in the position logs rather than the predefined points provided by SkyTrac.

The size of the icons can be changed and the zoom level at which the names show. The transparency can be adjusted here as well. Remove the check mark from the Show box to hide the options and also hide the geo references on the map. Click 'Apply' to make the change.

3.5.5 Rendezvous...

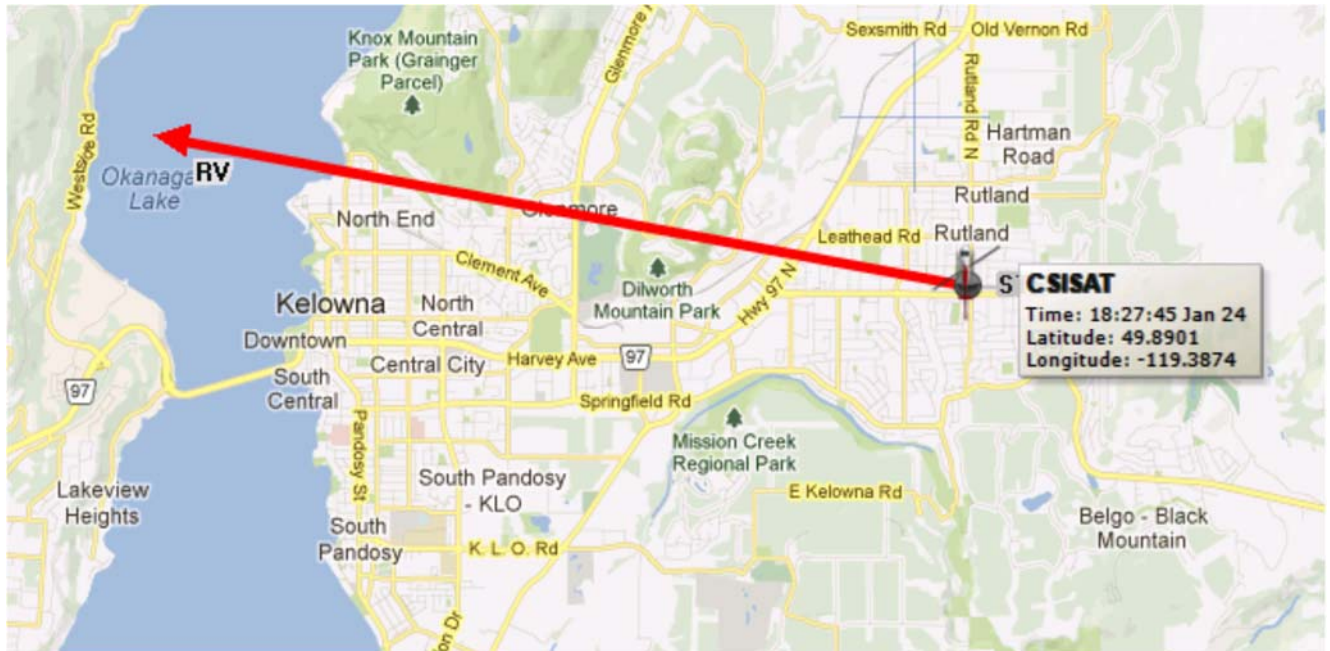
If the user's resource group was designated as a Rendezvous Group by the Program Manager in Account Management, then they will have access to this option.

A popup window appears where the user can select settings for how Rendezvous data are displayed on the map.



If Show All or Hide Vectors are selected a red line will appear on the map indicating the Rendezvous location. If Hide is selected none of this will appear.

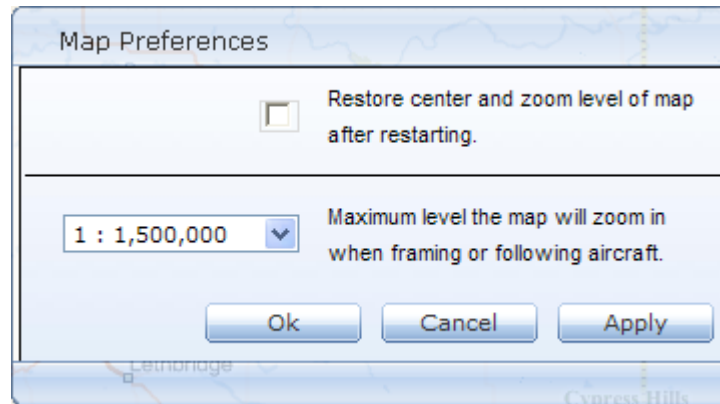
| Display | Remarks |
|--------------|------------------------------------|
| Hide | Hides all data |
| Hide Vectors | Draws vector lines from each point |
| Show All | Displays all vectors and graphics |



Important: Rendezvous is only available on ISAT-200R Cat M units (Mod C) running mainboard firmware 1.x or higher and CDP-300 firmware 5.x.

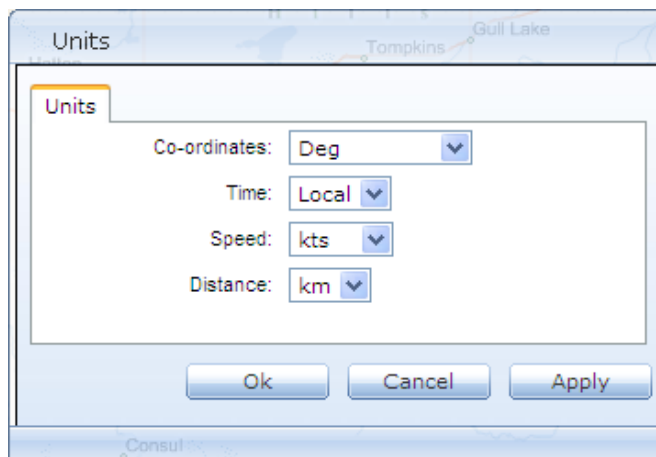
3.5.6 Zoom...

The 'Zoom Limit' option sets the level of zoom that will be applied when the aircraft is selected from the FlightBar. If the user selects the 'Restore' option, the limit will be used whenever the user opens SkyWeb. However they must select the 'Save Settings' option in the file menu when they have checked this box.



3.5.7 GPS Display Options...

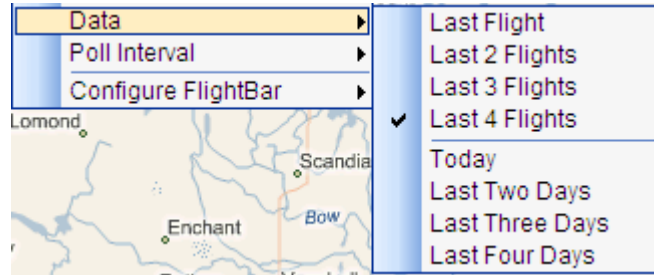
The user can change the Units that are displayed in SkyWeb.



| Unit | Remarks |
|--------------|----------------------------|
| Co-ordinates | |
| Deg | Degrees |
| Deg:Min | Degrees:Minutes |
| Deg:Min:Sec | Degrees:Minutes:Seconds |
| Time | |
| UTC | Coordinated Universal Time |
| Local | Local to the current user |
| Speed | |
| km/h | Kilometres per hour |
| Mph | Miles per Hour |
| Kts | Knots |
| Distance | |
| nm | Nautical miles |
| m | Metres |
| km | Kilometres |
| mi | Miles |

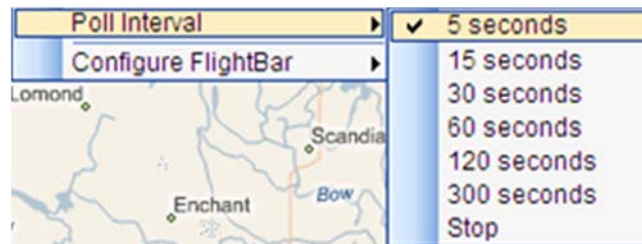
3.5.8 Data

This option is only available to the Full Access User. They can select how much data they wish to see by specifying the number of previous flights or days. Both of these options are limited to a maximum of 4 (either the previous 4 days or 4 flights).



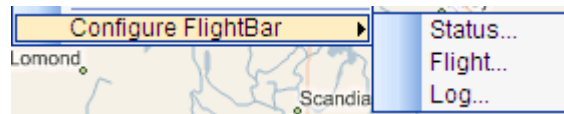
3.5.9 Poll Interval

The interval at which the data is polled from the SkyWeb servers can be selected from the sub-menu. If the 'Stop' option is selected the data will not be polled until it is reselected again.

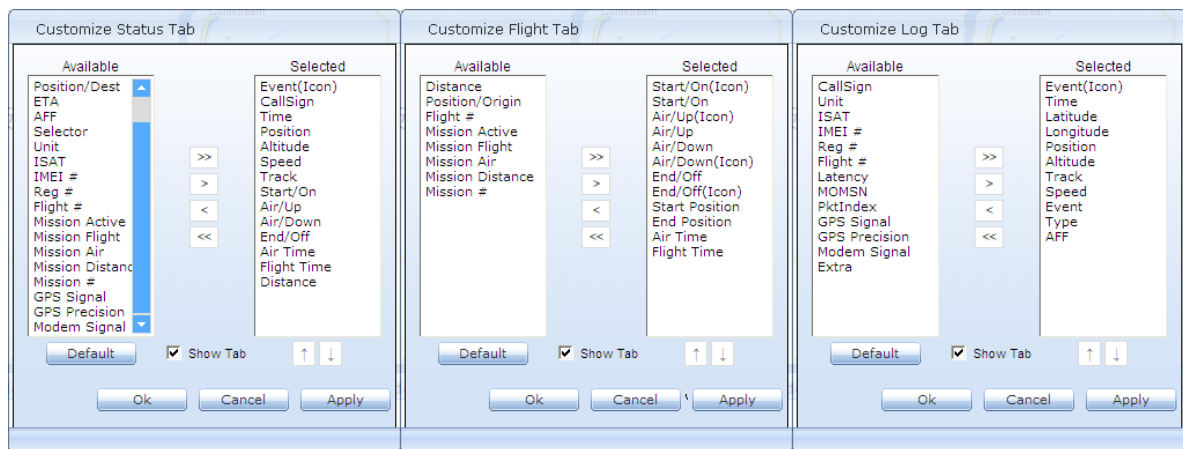






3.5.10 Configure FlightBar

This option is only available to the Full Access User. It gives them the ability to customize the information displayed in the FlightBar tabs at the bottom of the window (Status, Flight, Log and Event). For example, selecting Preferences >Configure FlightBar> Status will cause the Status Log dialog box to be displayed. In this box the user can specify which columns they wish to see in the “Status Tab” of the FlightBar.



3.5.10.1 Add or Remove Columns



To add or remove a column it must be selected in the ‘Available’ area and then click either  (add) or  (remove) to place it in the ‘Selected’ area. Only those columns that are in the ‘Selected’ area will be displayed in the relevant tab of the FlightBar. To add or remove a group of columns use the  (group add) and  (group remove) buttons.

The same procedure can then be used for modifying the other tabs in the FlightBar. See Section 0 for a detailed description of the FlightBar. Some of the available columns will only show data if the aircraft is installed with an ISAT-200. These options are also available by right-clicking on the column headings in the FlightBar.

Below is a table of column headings that may appear in one or more of the Flight Bar tabs.

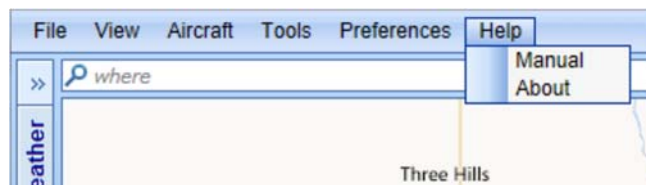
| Title | Remarks | Title | Remarks |
|----------|---------------------|---------------|----------------------------|
| Unit | Unit Serial Number | Path (Colour) | Path Colour as per the map |
| ISAT | | Event (Icon) | Event icon |
| IMEI # | IMEI Number | Time | Time |
| Reg # | Registration Number | Latitude | Lat |
| Flight # | Flight Number | Longitude | Long |

| Type | Event Code Number | Position | Position in relation to georef point |
|------------------|---|-----------------|--------------------------------------|
| Latency | Delay in data reaching Iridium | Altitude | Alt |
| MOMSN | Mobile Originated Message Sequence Number for debugging | Track | Direction of travel in degrees |
| PktIndex | Packet Index number | Speed | Speed |
| AFF | Is the Unit on AFF | Event | Event that occurred |
| FlightWatch | Indicates deviations | Extra | Phone number dialled and duration |
| GPS Signal | Validity of GPS Signal | Geofence | Indicates Geofence violations |
| Sequence | Packet sequence number | Air Up/Down | Time of wheels event |
| HDOP | Horizontal Dilution of Precision | Air Time | Time in the air |
| VDOP | Vertical Dilution of Precision | | |
| GPS Precision | Figures for both HDOP and VDOP. Smaller figure indicates better precision from GPS Sat geometry | Flight Time | Time powered up |
| Modem Signal | Quality of signal indication | Position/Origin | |
| Mission Active | Time mission active | Position Dest | |
| Mission Flight | Time powered up in mission | Selector | |
| Mission Air | Time in air in mission | CallSign | CallSign for unit |
| Mission Distance | Distance travelled in mission | ETA | Estimated Time of Arrival |
| Mission # | Optional number | Destination | |
| Expand/Collapse | Icon | Air Up (Icon) | Icon |
| Show/Hide Path | Check box | Air Up | Date and Time |
| Start On (Icon) | Icon | Air Down (Icon) | Icon |
| Start/On | Date and Time | Air Down | Date and Time |
| End/Off (Icon) | Icon | Start Position | Distance to reference point |
| End/Off | Date and Time | End Position | Distance to reference point |

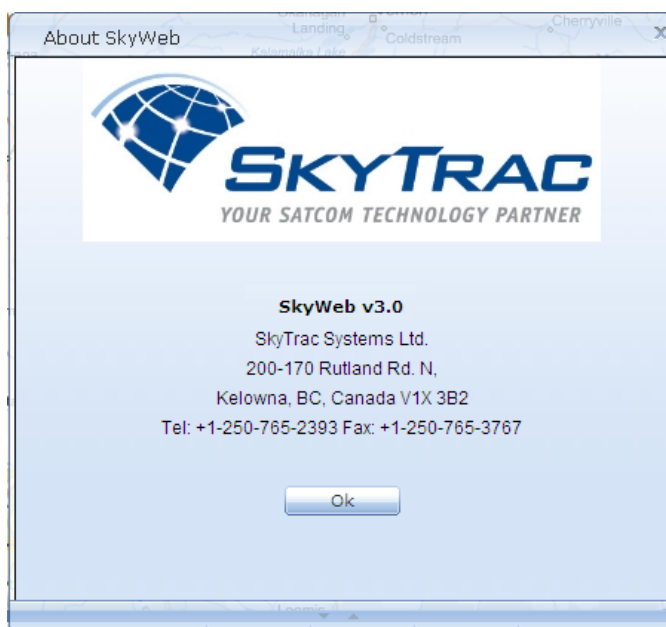
3.5.11 Display Seconds in Log

Shows or hides seconds in the flight log. Some units may be set for seconds resolution and others not, this will allow columns to line up consistently.

3.6 Help Menu



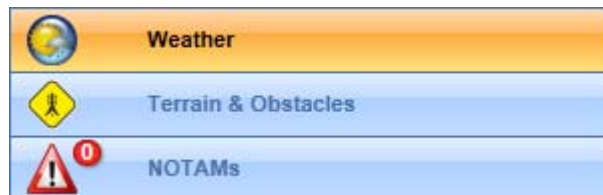
The Help menu provides a link to this SkyWeb user manual from our website and a link to the About SkyWeb dialogue box which contains the SkyWeb version and SkyTrac Systems contact information.



3.7 Sidebar

The Sidebar contains extra map data that can be overlaid on the main Flight Following map.

These options are all value-added services. They are enabled on a per user account basis by your Program Manager in the Account Management section of SkyWeb.



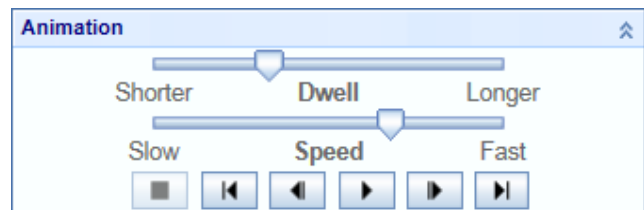
3.7.1 Weather


The Weather overlays provide visual updates to weather conditions in the areas where aircraft may be flying.


3.7.1.1 Animation

At the top of the bar are two sliders. These control either the time between successive animations (Dwell), or the Speed of the weather playback.

The playback controls are directly below the sliders and are used to play through the animation of the weather conditions. The animation can only be used with a single layer. If an animation is being played and the user selects another layer it will stop.



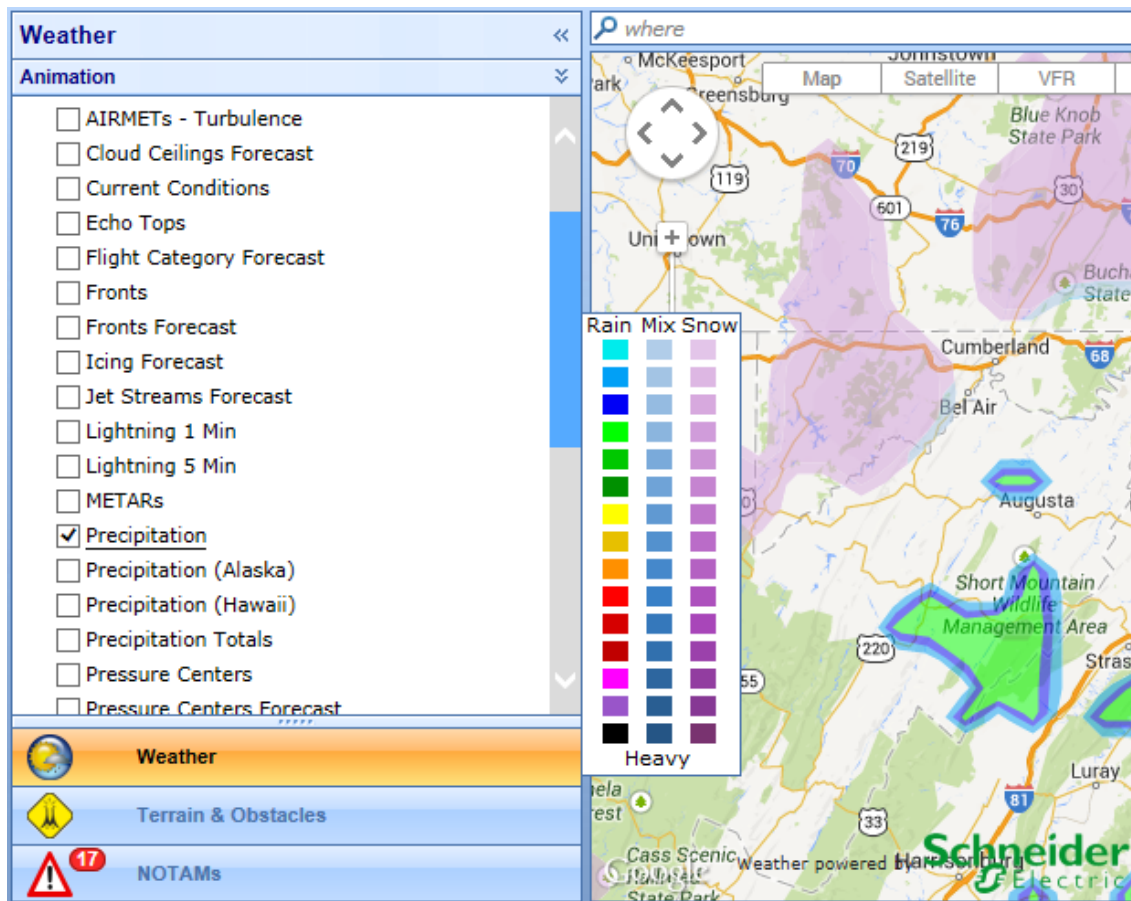
The user may have to wait until the sequence has loaded before it can then be played through. This will be indicated by a buffering number next to the selected  ☒ Current Conditions
Buffering 3 of 24

The available weather layers are on the left. Clicking on the  will open the list of weather layers for that geographic area. Not all of these geographic areas may be available to the user. Contact your Program Manager to add the additional areas as required.

3.7.1.2 Layers

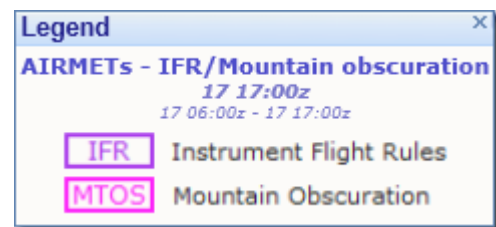
Individual layers can now be selected as required. Each of these layers has slider controls for Opacity and Layering (where in the layers they should sit). These controls are displayed when the user clicks on the text of the layer. Note: Adding too many layers may cause the computer to slow down.

If the user hovers the mouse over the title of a layer it will cause a legend to be displayed (briefly) for that particular layer. If the user wishes to see a Legend permanently then they must select it from the 'View' menu. Then as a layer is selected, the key information reference the icons used will be added to the 'Legend' see below.



3.7.1.3 Legend

If the weather option has been enabled then selection of this option will show the Legend containing details for the currently selected layers:



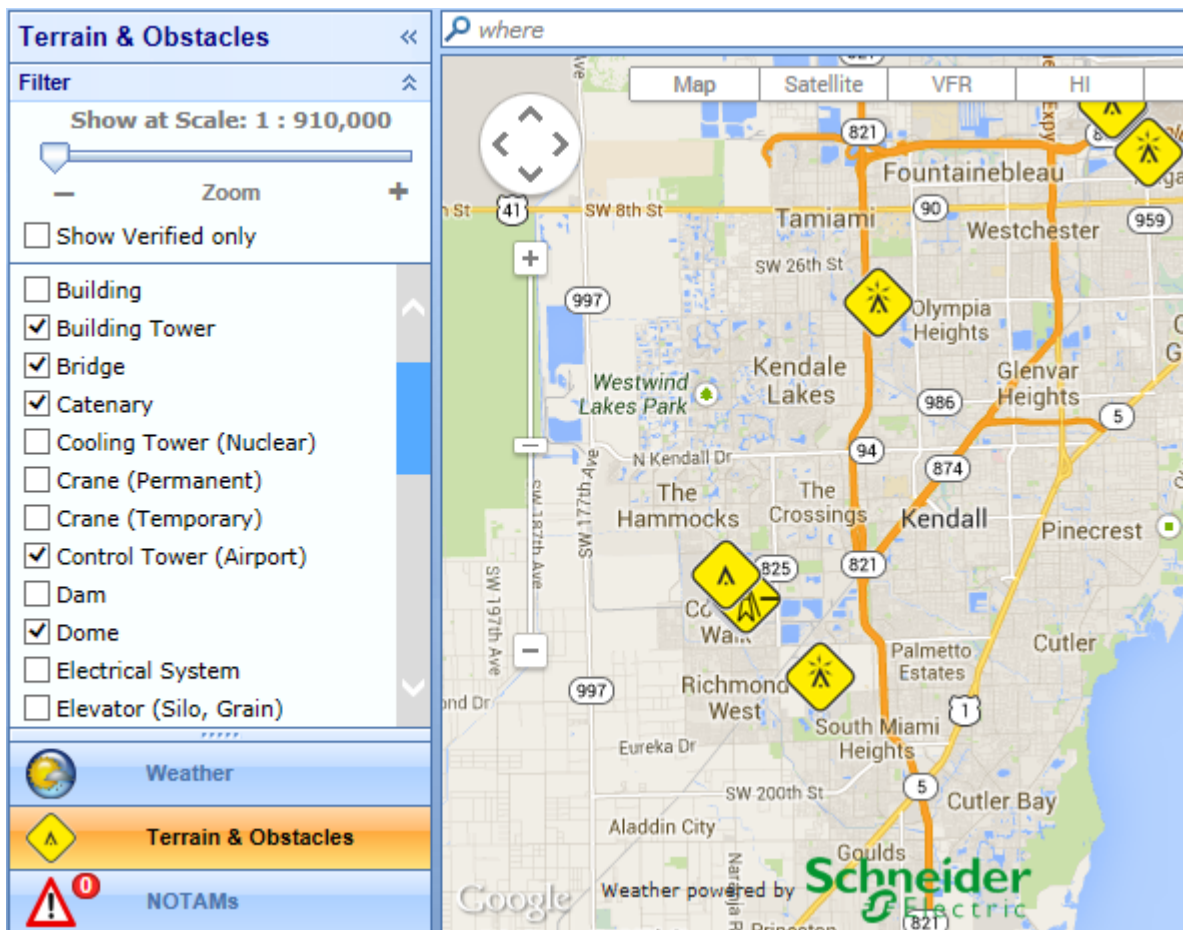
3.7.2 Terrain and Obstacle Data

This is a value-added service. It is enabled on a per user account basis by your Program Manager in the Account Management section of SkyWeb.

Terrain and Obstacle Data (TOD) describes all known obstacles of interest to aviation users in the United States, with limited coverage of the Pacific, the Caribbean, Canada, and Mexico.

3.7.2.1 Obstacles

Select the types of obstacles to be displayed on the map.



Under the Filter header, place a check in the Show Verified Only box to show only verified obstacles on the map, all unverified obstacles will be hidden.

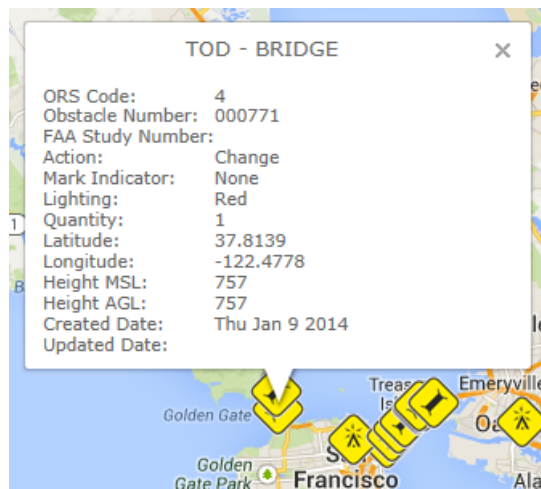
Slide the Zoom bar to set the zoom level at which the icons will appear on the map. If there are too many obstacle types selected and the map is too cluttered with them, either reduce the number of obstacle types selected, move the slider closer to the + symbol and zoom in closer to the ground.

The default max setting is Level 9, approximately 1 : 900,000.

Hover the mouse cursor over any obstacle icon and a message will popup displaying the obstacle type.














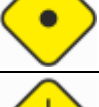





Click the icon and another larger message with more details regarding the obstacle will be displayed.



3.7.2.2 Types of Obstacles

Below is a table describing a few of the type of obstacles that may be displayed on the map.

| Obstacle | Icon | Remarks |
|----------|---|--|
| Bridge |  | Bridge |
| Building |   | Building greater than 1000 feet AGL |
| Building |   | Building less than 1000 feet AGL |
| Catenary |  | Power line or suspension cable bridge |
| Pole |  | Pole (Flag, Light) |
| Stack |  | Stack (Smoke, Industrial) |
| Tower |   | Building with Tower greater than 1000 feet AGL |
| Tower |   | Building with Tower less than 1000 feet AGL |
| Tower |  | Transmission Line Tower, Telephone Pole |
| Tank |  | Tank (Water, Fuel) |
| Windmill |    | Windmill (Wind Turbine) |

3.7.3 NOTAMs

Notice to Airmen (NOTAMs) is a value-added service. It is enabled on a per account basis by your Program Manager in the Account Management section of SkyWeb.

The Filter heading can be used to filter the NOTAMs by radius around all assets, specific assets, or an ICAO designation ID.

Notices may also be filtered by the age of the NOTAM in days.

As new notices arrive in real time a counter icon will increment with the number of un-read notices and the notice will be highlighted in yellow.

NOTAMs

Filter

☒ Assets
 ☐ Asset
 ☐ ICAO IDs

Coordinates
 Current Location

Status
 Loaded

Radius
 10 nm

Maximum age 3 days

04/020

2014-05-03 07:00

HIO

2014-05-03 12:00

HIO 04/020 HIO OBST CRANE
 453153N1225530W (1NM E RWY 31) 300FT
 (120FT AGL) FLAGGED 1405031400-

05/003

2014-05-02 05:00

YUL

2014-05-02 11:00

YUL 05/003 YUL IOA- DME CH42 U/S
 1405021200-1405021800

C04/031

2014-05-01 09:21

OPF

OPF !OPF C04/031 OPF

11/108

2014-05-01 07:00

YUL

YUL 11/108 YUL CYUL LOW VIS PROC NOT
 AUTH. SFC GUIDANCE AND CTL U/S NOV 28
 1230-2000 NOV 29 1300-2000 NOV 30 1400-

05/070

2014-05-01 07:00


1

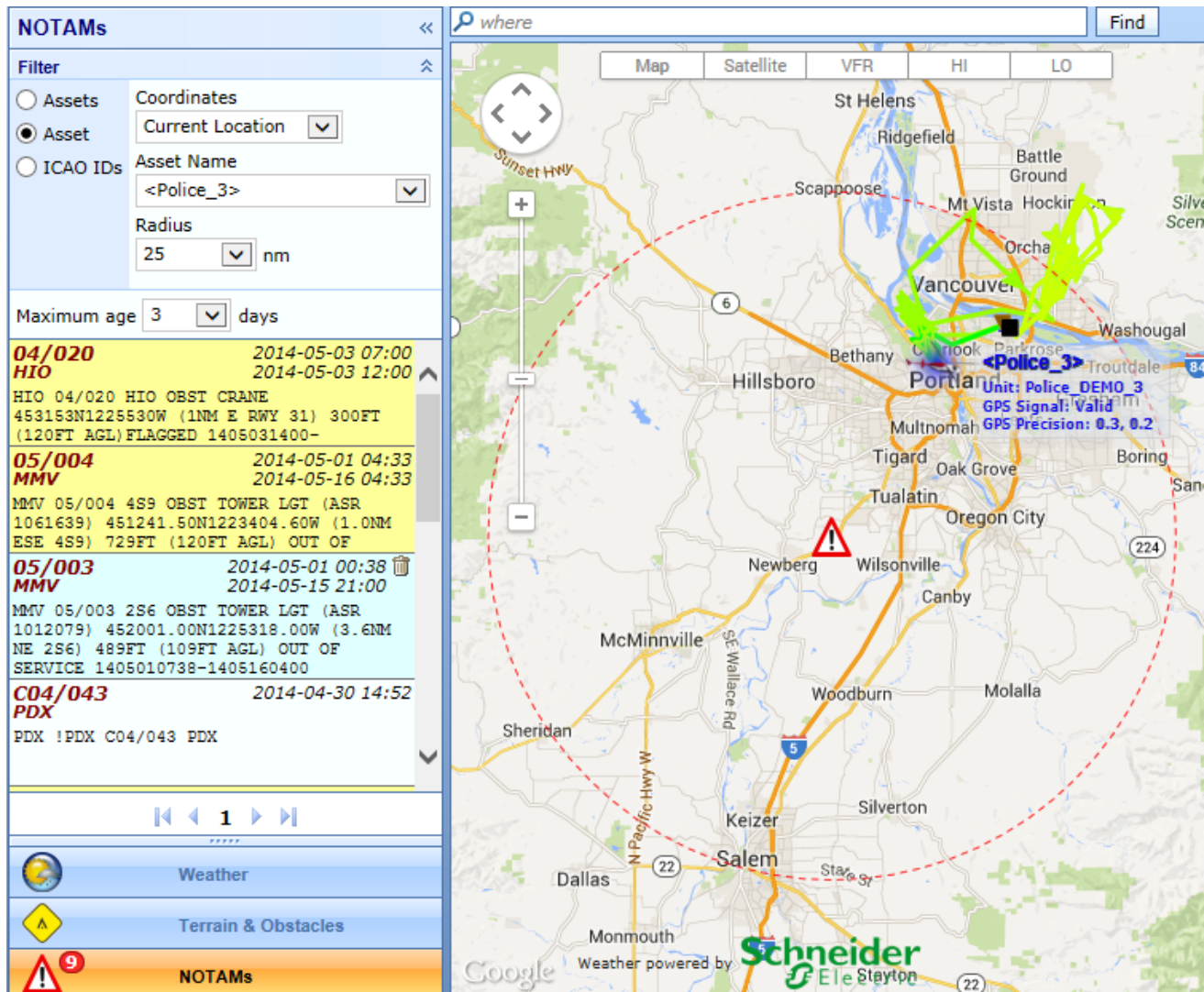
Weather

Terrain & Obstacles

37

NOTAMs

When the mouse is moved over each new NOTAM the Yellow background highlight will turn Light Blue and the  icon will appear at the location of that particular NOTAM, with a dotted line around it at the radius specified..



NOTAMs

Filter

- ☐ Assets
- ☒ Asset
- ☐ ICAO IDs

Coordinates
Current Location

Asset Name
<Police_3>

Radius
25 nm

Maximum age 3 days

04/020 HIO 2014-05-03 07:00
2014-05-03 12:00
HIO 04/020 HIO OBST CRANE
453153N1225530W (1NM E RWY 31) 300FT
(120FT AGL) FLAGGED 1405031400-

05/004 MMV 2014-05-01 04:33
2014-05-16 04:33
MMV 05/004 4S9 OBST TOWER LGT (ASR
1061639) 451241.50N1223404.60W (1.0NM
ESE 4S9) 729FT (120FT AGL) OUT OF

05/003 MMV 2014-05-01 00:38
2014-05-15 21:00
MMV 05/003 2S6 OBST TOWER LGT (ASR
1012079) 452001.00N1225318.00W (3.6NM
NE 2S6) 489FT (109FT AGL) OUT OF
SERVICE 1405010738-1405160400

C04/043 PDX 2014-04-30 14:52
PDX !PDX C04/043 PDX

Weather
Terrain & Obstacles
NOTAMs

Map Satellite VFR HI LO

St Helens Ridgefield Battle Ground
Scappoose Mt Vista Hockinson
Vancouver Washougal
Bethany Troutdale
Hillsboro Multnomah
Tigard Oak Grove Boring
Tualatin Oregon City
Newberg Wilsonville Canby
McMinnville Woodburn Molalla
Sheridan Dallas Keizer Silverton
Salem
Monmouth
Weather powered by Schneider

4 FLIGHTBAR

The FlightBar shows flight information for all of the resources that have been assigned to the user account. It can be resized by holding the mouse over the top line of the FlightBar, clicking once, then holding the mouse button down and dragging the line up or down.

The appearance of the FlightBar will vary depending on the user's designated role. For example; Full Access Users will see the tabs (Status, Flights & Log) along the bottom, Basic Access users will not. They will see the information as it is shown for the Status Tab.

The user can also change which columns appear in each of the tabs (see Section 0)

4.1 Status Tab

The 'Status' tab shows the current status of all resources that have been assigned to the user. The resources that have the most recent events will be at the top of the list. Clicking on an aircraft entry here will cause the map to be centered on that aircraft. Clicking on a column heading will cause the list to be sorted by that heading. The column that is currently being used as the sort column will have a small arrow next to it: **CallSign** clicking it again will reverse the order.

| CallSign | Time [Local] | Position | Altitude | Speed | Track | Start/On | Air/Up | Air/Down | End/Off | Air Time | FlightTime | Distance | AFF |
|--------------|-----------------|--|----------|----------|-------|-----------------|-----------------|-----------------|-----------------|----------|------------|------------|-----|
| <Sched_6> | 12:19:27 Jul 27 | 1801.03 km NNE Lihue | 14329 m | 600 km/h | 186 T | 11:55:18 Jul 27 | 11:59:19 Jul 27 | | | 00:20:08 | 00:24:09 | 2630.66 km | |
| <Medivac_21> | 12:19:02 Jul 27 | 29.43 km E Virginia Highlands - Abingdon | 990 m | 265 km/h | 74 T | 08:46:28 Jul 27 | 08:50:28 Jul 27 | | | 03:29:34 | 03:33:34 | 79.7 km | |
| <Medivac_12> | 12:19:00 Jul 27 | 24.93 km ENE Orangeburg Miami | 426 m | 225 km/h | 136 T | 08:46:28 Jul 27 | 08:50:28 Jul 27 | | | 03:29:32 | 03:33:32 | 202.7 km | |
| <Fire_2> | 12:18:35 Jul 27 | 2.89 km S Melbourne Essendon | 442 m | 165 km/h | 354 T | 11:32:13 Jul 27 | 11:33:13 Jul 27 | | | 00:45:22 | 00:46:22 | 99.92 km | |
| <SAR_15> | 12:16:39 Jul 27 | 260.65 km NW Glasgow | 106 m | 275 km/h | 32 T | 08:46:28 Jul 27 | 08:56:28 Jul 27 | | | 03:20:11 | 03:30:11 | 88.75 km | On |
| <SAR_16> | 11:55:30 Jul 27 | 175.09 km SSW Nanisivik | 2408 m | 325 km/h | 294 T | 11:27:22 Jul 27 | | | | 00:28:08 | 00:28:08 | 339.35 km | |
| <SAR_23> | 11:55:00 Jul 27 | 1.17 km ESE Iqaluit | 0 m | 0 km/h | 0 T | 11:00:43 Jul 27 | 11:02:44 Jul 27 | 11:53:00 Jul 27 | 11:55:00 Jul 27 | 00:50:16 | 00:54:17 | 461.11 km | |
| <Fire_1> | 11:51:22 Jul 27 | 0.54 km NE Kamloops | 350 m | 0 km/h | 0 T | 09:54:49 Jul 27 | 09:56:50 Jul 27 | 11:49:22 Jul 27 | 11:51:22 Jul 27 | 01:53:32 | 01:57:33 | 125.63 km | |
| <Police_1> | 02:08:59 Jul 12 | 12.89 km NNE Opa Locka W - Miami | 60 m | 70 km/h | 330 T | 01:38:04 Jul 12 | 01:56:14 Jul 12 | | | 00:13:45 | 00:31:55 | 29.27 km | |
| <Police_2> | 02:08:16 Jul 12 | 7 km SW Fullerton Miami | 320 m | 150 km/h | 300 T | 01:21:27 Jul 12 | 01:29:51 Jul 12 | | | 00:38:25 | 00:47:49 | 76.14 km | |
| <Police_3> | 02:08:01 Jul 12 | 6.03 km W Cape Canaveral FL - Vancouver | 703 m | 106 km/h | 283 T | 01:21:27 Jul 12 | 01:29:51 Jul 12 | | | 00:42:00 | 00:47:34 | 48.48 km | |

The columns displayed here can be changed by the user if required. This is achieved via the Preferences > Configure FlightBar> Status Log option (see Section 0)

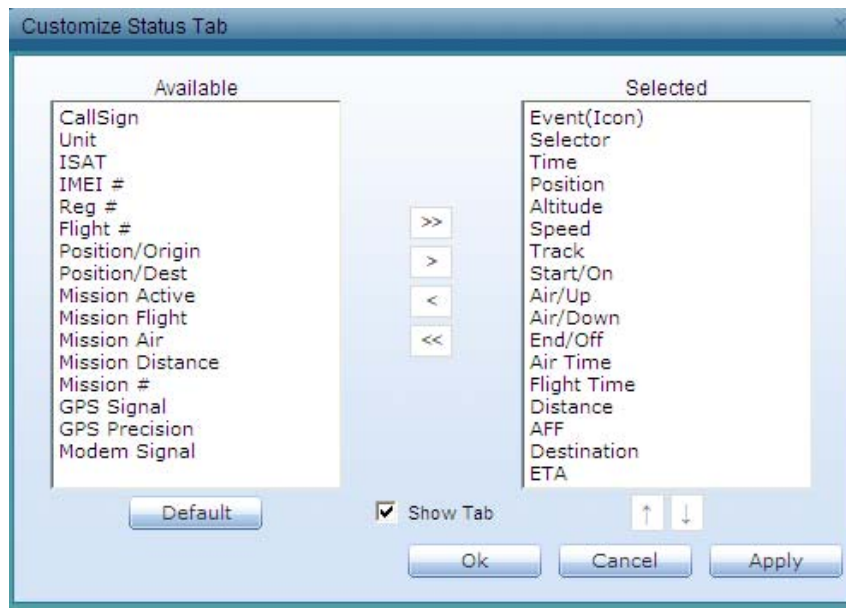
Alternatively the user can right click on a column heading to get the 'Customize Tab' option

| CallSign | Time [Local] | Position | Customize Tab... | Track |
|-------------|-----------------|---------------------------|--------------------|-------|
| <Sched_2> | 13:15:19 Nov 27 | 25.12 nm NNE Ottawa | Remove This Column | 292 T |
| <Fire_1> | 13:15:14 Nov 27 | 78.35 nm NW SkyTrac Syst | | 0 T |
| <HEARTBEAT> | 13:15:07 Nov 27 | 25.93 nm SSW SkyTrac Syst | | 76 T |

Selection of this option will display a list of currently selected column headings (on the right) and a list of those still available to add (on the left).

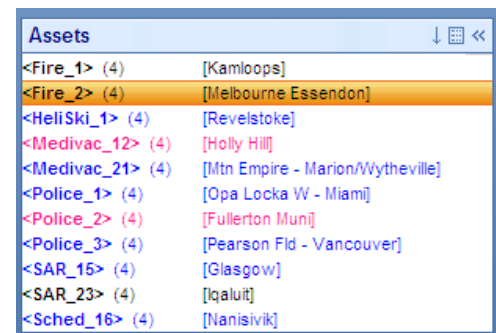
Click 'Remove This Column' to instantly remove the selected column without having to open the Customize Status Tab window.


Addition/removal is achieved by selecting the required column heading in the relevant window and then clicking the relevant centre arrow buttons. The user can then place the column in the correct location using the up or down arrows at the bottom of the right window.



4.2 Flight Tab

This area displays the data for each flight. The user selects the required aircraft on the left of the FlightBar in the Assets section and the flights will be listed on the right.




Clicking the options in the top right corner  will enable the user to either sort the assets (using the arrow), display more or less information (by use of the menu icon) or close the assets box to the left.

The additional information that can be displayed is the number of flights and positions. These will be in parenthesis after the unit.

The actual number of flights displayed will depend on the option that has been selected in the Preferences menu i.e. 'Last 4 Flights', 'Last 2 Days' etc.

| Assets | Start/On | Air/Up | Air/Down | End/Off | Start Position | End Position | Air Time | Flight Time |
|--|-----------------|--------|----------|---------|-------------------------|-------------------------|----------|-------------|
| <Fire_1> (4) [Kamloops] | 11:32:13 Jul 27 | | | | 0.75 km NNW Melbourne E | 0.68 km NNW Melbourne E | 00:47:23 | 00:48:23 |
| <Fire_2> (4) [Melbourne Essendon] | 09:46:40 Jul 27 | | | | 128.14 km NW Sydney Int | 111.45 km WNW Sydney I | 01:04:32 | 01:06:33 |
| <HeliSki_1> (4) [Revelstoke] | 08:46:27 Jul 27 | | | | 84.91 km WNW Sydney Int | 128.17 km NW Sydney Int | 00:18:11 | 00:20:13 |
| <Medivac_12> (4) [Orangeburg Muni] | 05:32:25 Jul 27 | | | | 0.75 km NNW Melbourne E | 0.73 km NW Melbourne Es | 00:51:29 | 00:54:30 |
| <Medivac_21> (4) [Virginia Highlands - Abingdon] | | | | | | | | |
| <Police_1> (4) [Opa Locka W - Miami] | | | | | | | | |
| <Police_2> (4) [Fullerton Muni] | | | | | | | | |
| <Police_3> (4) [Pearson Fld - Vancouver] | | | | | | | | |
| <SAR_15> (4) [Glasgow] | | | | | | | | |
| <SAR_23> (4) [Iqaluit] | | | | | | | | |
| <Sched_16> (4) [Nanisivik] | | | | | | | | |

Additional details for the required flight can be seen by clicking the  next to it. Clicking on an entry here will cause the map to be centered on that location.

- Start/On and End/Off indicate a flight.
- The Air/Up and Air/Down are the flight legs of that flight.
- Pos/Origin is the position or the resource relative to the beginning of the flight leg.

Note:


If Wheels events are not enabled for resources, the flights and flight legs are treated as one unit.


4.3 Log Tab




More detailed information is displayed under the 'Log' tab. Each flight is listed for the selected aircraft. Clicking on the + next to the required flight will cause all of the position reports to be displayed along with any additional information.

Clicking on any of the positions listed will cause the map to be centered on that location.

| Assets | Time [Local] | Latitude | Longitude | Altitude [m] | Track [°] | Speed [km/h] | Event | MOMSN | Type | Latency | IMEI # | Extra |
|--|--|----------|-----------|--------------|-----------|--------------|-------|-------|----------|---------|--------|-------|
| <Fire_1> (1, 59) [Kamloops] | 11:32:13 Jul 27 - 12:17:35 Jul 27 [54] 0.75 km NNW Melbourne Essendon → 5.68 km S Melbourne Essendon | | | | | | | | | | | |
| <Fire_2> (1, 54) [Melbourne Essendon] | 12:17:35 Jul 27 | -37.7794 | 144.9033 | 472 | 350 | 160 | 11984 | 208 | 00:00:00 | Fire_2 | | |
| <Heliski_1> (1, 24) [Revelstoke] | 12:16:34 Jul 27 | -37.8036 | 144.9067 | 472 | 4 | 160 | 11971 | 208 | 00:00:00 | Fire_2 | | |
| <Medivac_12> (1, 53) [Orangeburg Mun] | 12:15:34 Jul 27 | -37.8290 | 144.9043 | 487 | 6 | 175 | 11961 | 208 | 00:00:00 | Fire_2 | | |
| <Medivac_21> (1, 53) [Virginia Highlands - Abingdon] | 12:14:34 Jul 27 | -37.8542 | 144.9009 | 487 | 78 | 175 | 11948 | 208 | 00:00:00 | Fire_2 | | |
| <Police_1> (1, 44) [Opa Locka W - Miami] | 12:13:34 Jul 27 | -37.8609 | 144.8648 | 487 | 102 | 215 | 11939 | 208 | 00:00:00 | Fire_2 | | |
| <Police_2> (1, 48) [Fullerton Mun] | 12:12:34 Jul 27 | -37.8513 | 144.8229 | 503 | 106 | 225 | 11928 | 208 | 00:00:00 | Fire_2 | | |
| <Police_3> (1, 18) [Pearson Fld - Vancouver] | 12:11:33 Jul 27 | -37.8379 | 144.7811 | 518 | 114 | 240 | 11919 | 208 | 00:00:00 | Fire_2 | | |
| <SAR_15> (1, 22) [Glasgow] | 12:10:33 Jul 27 | -37.8206 | 144.7430 | 518 | 114 | 230 | 11907 | 208 | 00:00:00 | Fire_2 | | |
| <SAR_23> (1, 28) [Iqaluit] | 12:09:32 Jul 27 | -37.8022 | 144.7038 | 503 | 116 | 235 | 11898 | 208 | 00:00:00 | Fire_2 | | |
| <Sched_16> (1, 15) [Narsivik] | 12:08:32 Jul 27 | -37.7835 | 144.6661 | 503 | 112 | 225 | 11889 | 208 | 00:00:00 | Fire_2 | | |

The user can sort the list by clicking on the  icon in the column heading

If any assets are using Encryption, then each position will also have a  padlock symbol on each line in the flight log.

| | | | | |
|---|-----------------|---------|-----------|---------------------------|
|  | 11:07:15 Jan 25 | 48.4969 | -123.4938 | 17.4 km SSW Victoria Intl |
|  | 11:06:45 Jan 25 | 48.4947 | -123.4809 | 17.4 km SSW Victoria Intl |
|  | 11:06:15 Jan 25 | 48.4925 | -123.4685 | 17.45 km S Victoria Intl |

4.3.1 High Resolution Data (ISAT 200A only)

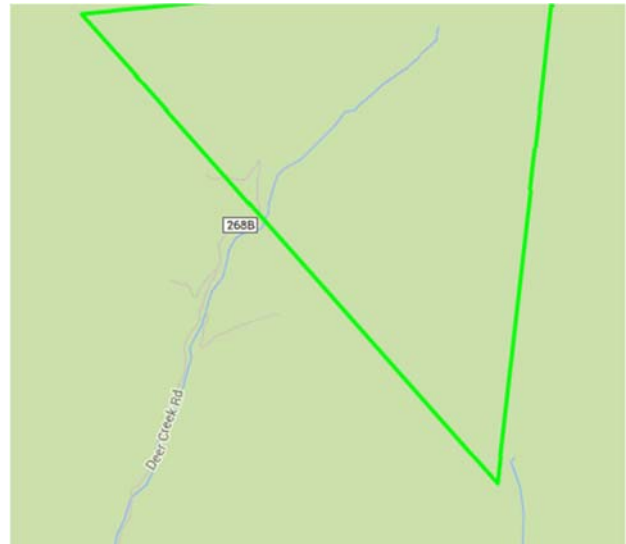
This feature allows ISAT-200A units to display extra position data in between each regular position. E.g. If a unit is currently set for 1 minute reporting, selecting High Resolution Data will cause the ISAT to display additional position data for *every second* in between the regular intervals. This will allow for much greater accuracy in calculating distance travelled.

| Time [Local] | Latitude | Longitude | Position | Altitude |
|-------------------|----------|-----------|--------------------|----------|
| 13:17:06 Oct 18 | 50.2153 | -119.2783 | 2.74 nm SE Vernon | 2657 ft |
| ▼ 13:16:06 Oct 18 | 50.2214 | -119.2523 | 3.37 nm ESE Vernon | 2480 ft |
| ▼ 13:14:06 Oct 18 | 50.2266 | -119.2052 | 4.98 nm ESE Vernon | 2749 ft |
| ▼ 13:13:06 Oct 18 | 50.2305 | -119.1542 | 6.87 nm E Vernon | 2802 ft |
| ▲ 13:12:06 Oct 18 | 50.2421 | -119.1068 | 8.63 nm E Vernon | 3497 ft |

| Time [Local] | Latitude | Longitude |
|-----------------|----------|-----------|
| 13:12:05 Oct 18 | 50.2424 | -119.1063 |
| 13:12:04 Oct 18 | 50.2427 | -119.1056 |
| 13:12:03 Oct 18 | 50.2431 | -119.1050 |
| 13:12:02 Oct 18 | 50.2434 | -119.1044 |
| 13:12:01 Oct 18 | 50.2438 | -119.1037 |
| 13:12:00 Oct 18 | 50.2441 | -119.1031 |
| 13:11:59 Oct 18 | 50.2445 | -119.1025 |
| 13:11:58 Oct 18 | 50.2449 | -119.1019 |

The log will show a ▼ on each line in the log if High Res Data is available for that position, clicking the ▼ will open an extra window with *all* of the extra data between this position and the next. On the map the positions will also display the data with each single point represented.

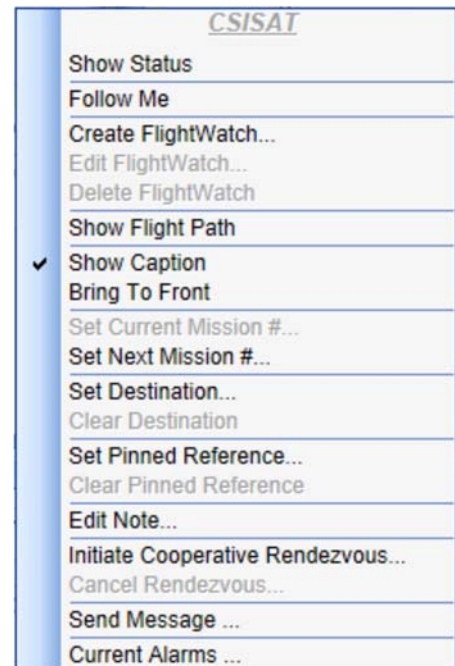
Below are the same two positions, one with the High Res Data displayed, which is a much more accurate display of the flight path the aircraft actually took. The second figure is the flight path with a straight line between the two points generated one minute apart.



4.4 Right-Click Menu

A number of the menu options already discussed are also available via the right-click speed menu. The menu will appear if the user right-clicks on either:

- The aircraft callsign in the Status Tab
- The icon for the aircraft
- The caption alongside the aircraft
- The callsign in the Assets list



| Options | Remarks |
|------------------------|---|
| Show Status | Show / hide the full status information for this resource |
| Follow Me | After each poll where new data is received SkyWeb will center the map on this resource |
| Create FlightWatch | Allows the user to start creating a FlightWatch |
| Edit FlightWatch | Allows the user to make changes to the current FlightWatch |
| Delete FlightWatch | Allows the user to delete the current FlightWatch |
| Show Flight Path | Show / hide the flight path of this resource |
| Show Caption | Enable / disable the mouse over caption information for this resource |
| Bring To Front | Brings this resource to the top of a stack of resources, allowing for easier interaction |
| Set Current Mission # | Allows the entry of information (e.g. contract number or patient number) that will be tagged to this flight |
| Set Next Mission # | Set details for the next Mission |
| Set Destination... | Set the destination and ETA for this resource (see Section 3.4.1) |
| Clear Destination | Removes the destination for this resource |
| Set Pinned Reference | Allows each unit selected to use a single point of reference |
| Clear Pinned Reference | Clears the above reference |
| Edit Note... | Selection of this option allows the user to add a note that will appear in the caption (when displayed) |

| Options | Remarks |
|----------------------------------|---|
| *Initiate Cooperative Rendezvous | Starts the cooperative rendezvous procedure |
| *Cancel Rendezvous | Cancels the coop rendezvous for selected unit |
| Send Message... | Allows a quick message to be sent to this resource (seen by users with full Flight Following Access only) |
| Current Alarms... | Enable / disable alarms for this resource. This only affects audio alarms within SkyWeb (Section 3.5.1) |

* only seen by users that have the Rendezvous enabled (see section 3.5.5).

4.5 Create FlightWatch

Important Note:

The FlightWatch parameters that are entered into SkyWeb are designed to notify the SkyWeb user if the unit deviates from SkyWeb user predetermined values. The FlightWatch will be visible by ALL SkyWeb users in a company.

Selection of this option allows the user to create a FlightWatch. A FlightWatch is a path which will alarm if the aircraft strays out of it. The user sets allowable tolerances for how far the aircraft can stray from the center line and also the designated destination point. They can also set a minimum and maximum GPS altitude, which will also cause an alarm if the unit breaks these tolerances (i.e. by going above the maximum or below the minimum).

STS-CS-CB

Enter tolerances for FlightWatch:

Lateral Path Tolerance: 4.5 nm

Destination Tolerance (radius): 3.5 nm

Altitude Watch: ☐ Min: ft Max: ft

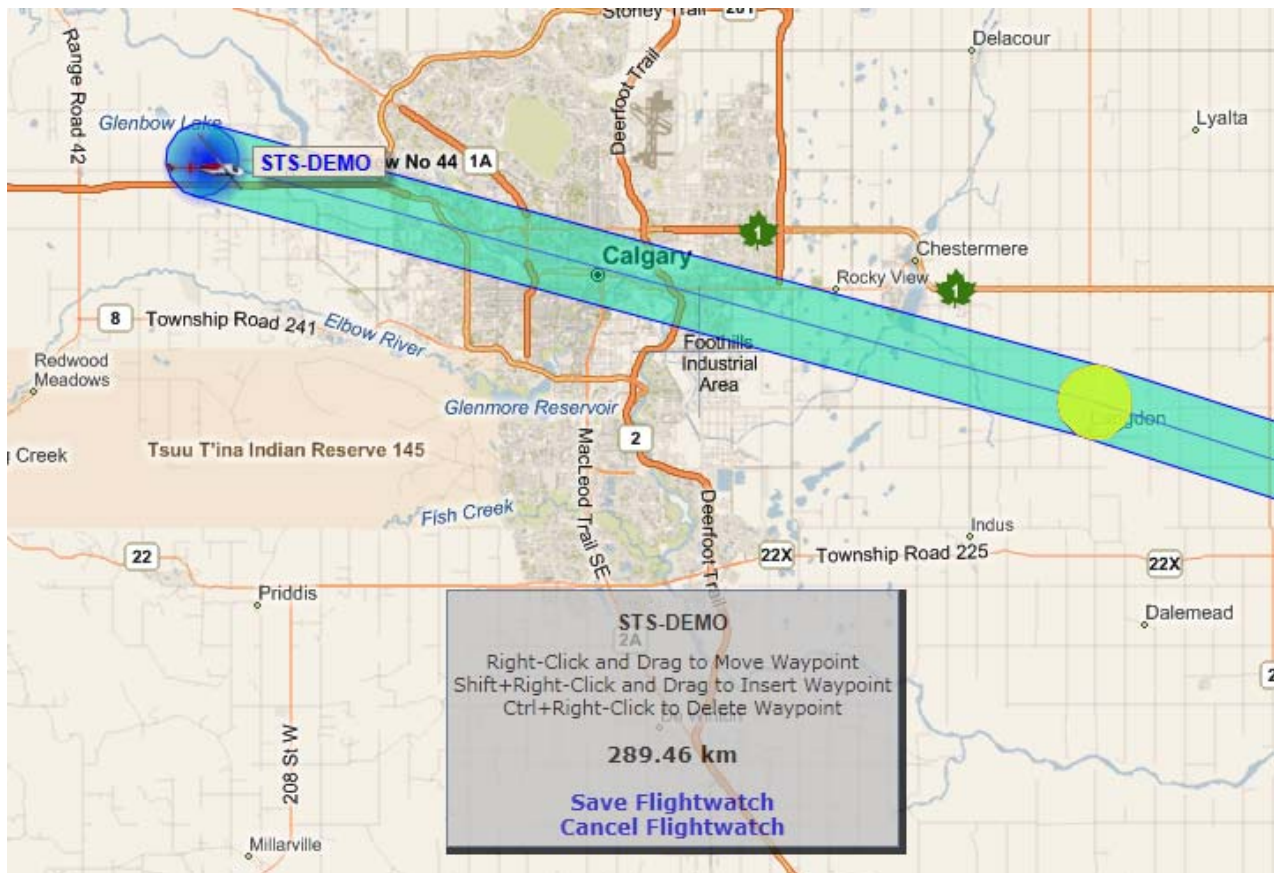
To enter waypoints for FlightWatch, press "Ok" and right click on map to add each waypoint. When finished, click "End FlightWatch".

Ok Cancel

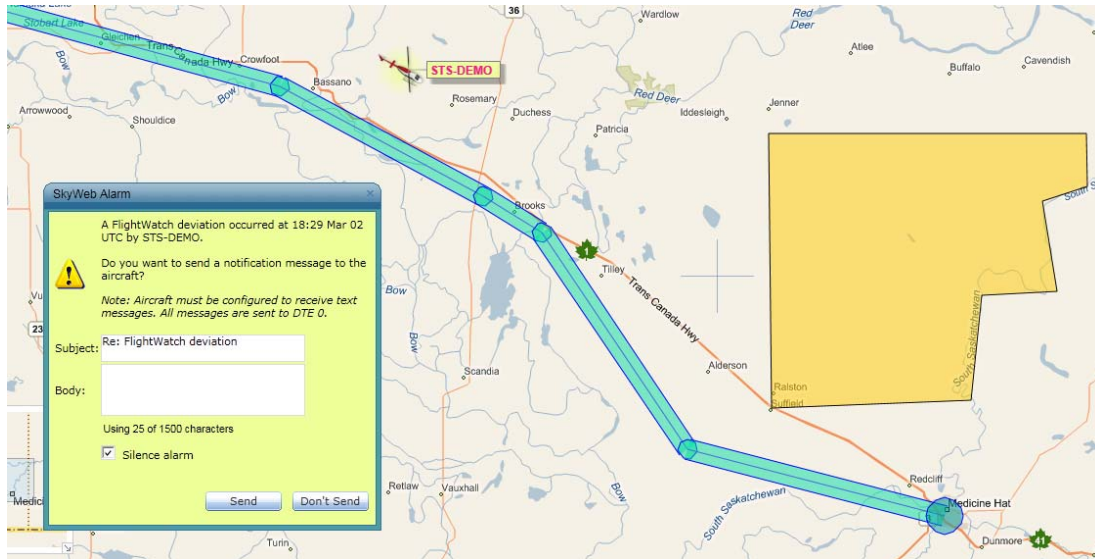
Once the relevant details have been entered, the FlightWatch will start at the current location of the unit. The user can then right-click on the map to place each waypoint that they wish to use for the FlightWatch and it will be drawn on the map between the points.



If the user hovers the mouse over a point, that point will change colour and additional options such as 'Right-Click and Drag to Move Waypoint' will be displayed. In this way the user can edit the location of the waypoints as they are positioning them.



The example below shows a FlightWatch being used to provide a SkyWeb user a warning path for a unit that has to fly around a Geofence. If the unit leaves the FlightWatch, SkyWeb will alarm:



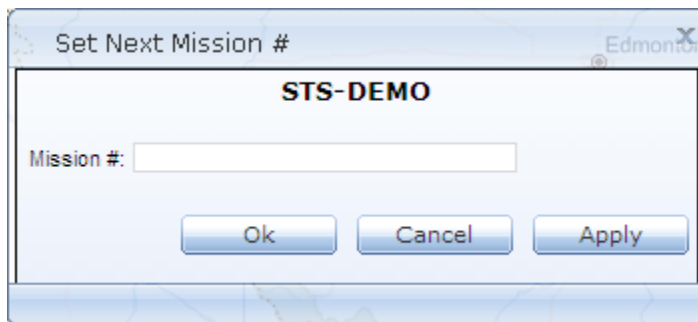
The alarms can be both audible and visual. The visual 'pop-up' allows the user to send a message to the unit and silence the alarm (for this violation) at the same time.

4.6 Edit FlightWatch

If the user has created a FlightWatch, selection of this option will allow them to edit it (as already discussed).

4.7 Set Current/Next Mission

The user can select to set the Mission # and can then be displayed against the data in the logs.



4.8 Edit Notes...

The user can add notes to the caption that accompanies an aircraft. The note can be displayed with the aircraft on all SkyWeb accounts the company has, or only the current account that created the note.



The Edit Notes feature must be enabled for each user in the Administration section of SkyWeb, under the Global Settings: Flight Following Settings.



4.9 Initiate Cooperative Rendezvous...

Rendezvous is new feature designed for assets to be able to rendezvous with each other at some location.

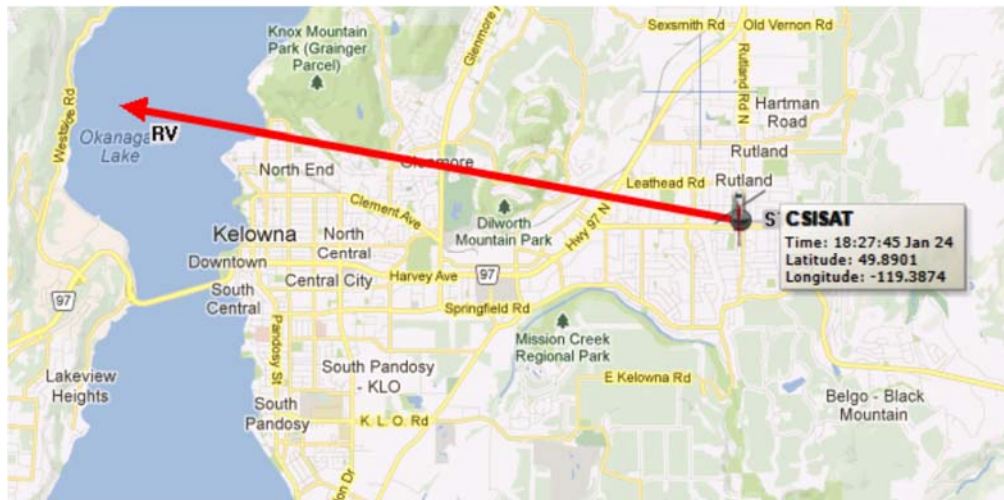
There are two types of rendezvous, Following Rendezvous, where one aircraft or vessel is set to follow another. This feature will allow assets that are in the same Rendezvous group (and have the relevant hardware and specific firmware loaded) to partake in a rendezvous procedure. A point on the map will be selected and the asset(s) will be sent the relevant information to allow them to meet at that location.



The dialog box titled "Initiate Cooperative Rendezvous" contains the following elements:

- Target Name:** A text input field.
- Right click on map to set:** A blue instruction text.
- Latitude:** A text input field containing "49.8994998".
- Longitude:** A text input field containing "-119.5113373".
- Version Note:** A blue text line stating "This feature is only available for ISAT-200 firmware version 0.14.x or greater."
- Participating assets(s) (select one or more assets):** A label above a list box.
- Assets List:** A list box containing the text "CSISAT", "ISAT-C", and "Mooney".
- Buttons:** "Ok" and "Cancel" buttons at the bottom.

On the map a red arrow line will be drawn from each of the asset's initial start point to the selected RV point. This will allow flight followers to see the progress of the rendezvous procedure.



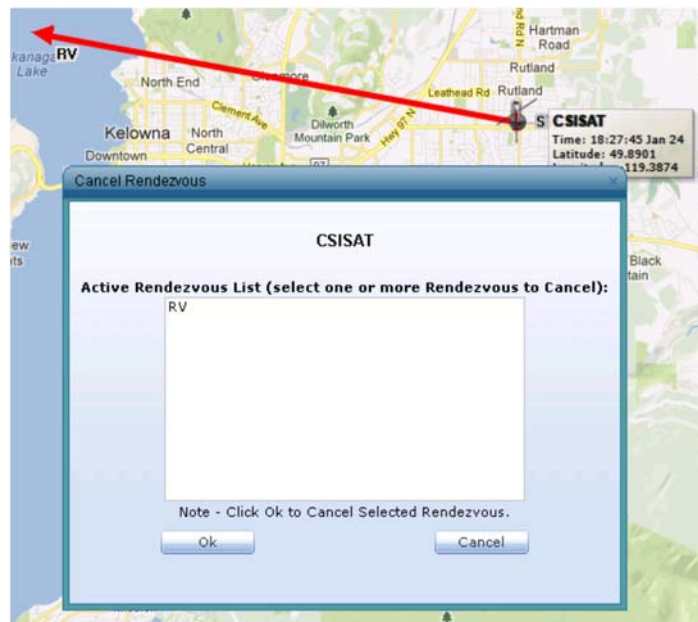
Assets will be put into 'Rendezvous Groups' by the Program Manager in the Account Management section of SkyWeb. These assets (and only these) will then be able to be selected by the user for a cooperative rendezvous

Those clients that have ISAT-200s and CDP/DVI-300s (with the relevant firmware) will also be able to initiate an RV procedure between two assets from the CDP/DVI itself. This would then cause a series of arrows to automatically be displayed in SkyWeb, going from the assets to the RV point and at the same time the initiating asset will be sent the relevant information (in terms of a bearing and distance) to allow them to meet.

Important: Rendezvous is only available on ISAT-200R Cat M units (Mod C) running mainboard firmware 1.x or higher and CDP-300 firmware 5.x.

4.10 Cancel Rendezvous...

Rendezvous can be cancelled at any time. The red line will disappear and the CDP in the cockpit of the asset will no longer show the RV coordinates.



4.11 Send Message...

Users may send an email message to the asset using SkyWeb Mail. Message will arrive on the CDP in the cockpit.



4.12 Custom Events

If an additional input has been wired in the aircraft and configured in the Hardware Manager for a custom event (such as high oil pressure, engine temperature etc), then when this event is triggered it will also cause a pop-up warning and alarm. These work in a similar way to those discussed for geo-fence and flightwatch deviations.

Custom events will also be displayed in the FlightBar (like Mains-On currently is) but will have an exclamation mark next to them (see below). The actual event title that appears will be whatever has been configured for the custom event in the Hardware Manager.

| Event | Time [Local] | Latitude | Longitude | Altitude [ft] | Track [T] | Speed [kts] |
|---------------------------------------|-----------------|----------|-----------|---------------|-----------|-------------|
| 09:45:37 Jul 16 – 09:52:06 Jul 16 [9] | | | | | | |
| ! CustomEvent-On | 09:52:06 Jul 16 | 49.8899 | -119.3874 | 1401 | 0 | 0 |
| | 09:51:43 Jul 16 | 49.8899 | -119.3874 | 1401 | 0 | 0 |
| | 09:50:42 Jul 16 | 49.8899 | -119.3874 | 1404 | 0 | 0 |
| | 09:49:41 Jul 16 | 49.8899 | -119.3874 | 1407 | 0 | 0 |
| ◆ Engines-Start | 09:48:40 Jul 16 | 49.8899 | -119.3874 | 1404 | 0 | 0 |
| | 09:48:40 Jul 16 | 49.8899 | -119.3874 | 1404 | 0 | 0 |
| | 09:47:39 Jul 16 | 49.8899 | -119.3874 | 1404 | 0 | 0 |
| | 09:46:38 Jul 16 | 49.8899 | -119.3874 | 1394 | 0 | 0 |
| ■ Mains-On | 09:45:37 Jul 16 | 49.8900 | -119.3874 | 1387 | 0 | 0 |

4.13 Right-Click Map Menu

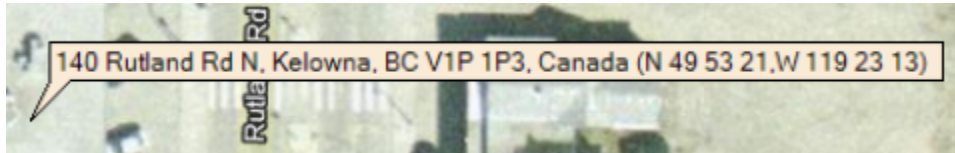
If the user right-clicks on the map they will also get a speed menu:

| |
|------------------------------------|
| Add Address Marker... |
| Add Coordinates Marker... |
| Initiate Cooperative Rendezvous... |
| Delete All Markers |
| Reverse Geocode |

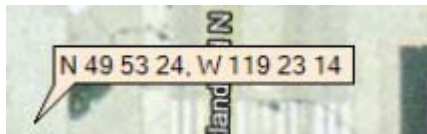
Each of the menu options are explained below:

| Menu Option | Remarks |
|------------------------------------|--|
| Add Address Marker | Adds an Address mark at the point selected |
| Add Coordinates Marker | Adds a Coordinates Marker at the point selected |
| Initiate Cooperative Rendezvous... | Starts the cooperative rendezvous procedure |
| Delete All Markers | Deletes all current markers |
| Reverse Geocode | Converts a point on the map to nearest address information |

4.13.1 Add Address Marker



4.13.2 Add Coordinates Marker

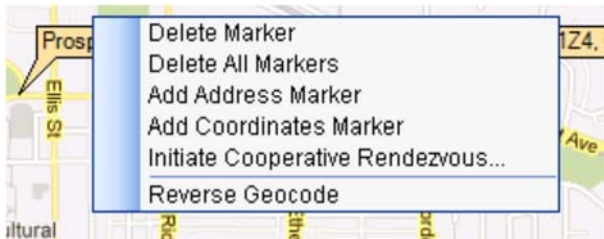


4.13.3 Initiate Cooperative Rendezvous...

Brings up the same dialog box as when right-clicking on an asset, to set Rendezvous.
(See Section 4.9)

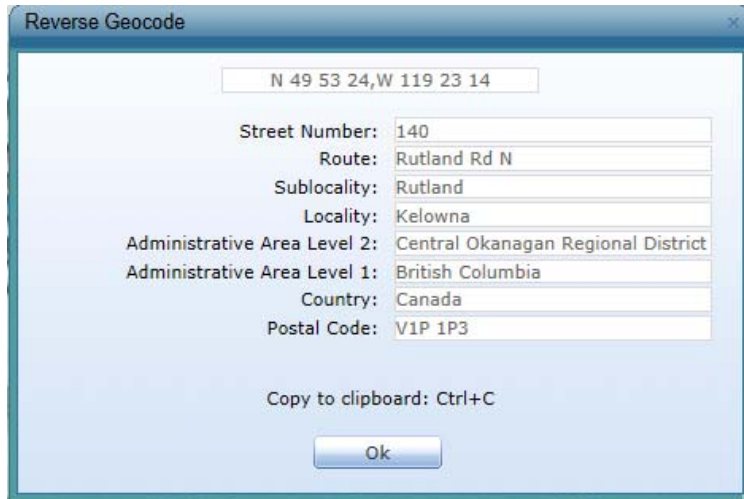
4.13.4 Delete Marker / All Markers

The right-click speed menu changes slightly when the user selects a marker that has already been placed on the map. Now the user has the additional option of deleting the selected marker:



4.13.5 Reverse Geocode

Selecting the 'Reverse Geocode' option will convert a point on the map to the nearest set of address data available. This will then be available to copy using the Ctrl + C option.



The screenshot shows a 'Reverse Geocode' dialog box with a light blue background and a dark blue title bar. At the top, a text box contains the coordinates 'N 49 53 24,W 119 23 14'. Below this, several fields are listed with their corresponding values: 'Street Number: 140', 'Route: Rutland Rd N', 'Sublocality: Rutland', 'Locality: Kelowna', 'Administrative Area Level 2: Central Okanagan Regional District', 'Administrative Area Level 1: British Columbia', 'Country: Canada', and 'Postal Code: V1P 1P3'. At the bottom, there is a text label 'Copy to clipboard: Ctrl+C' and an 'Ok' button.

| Field | Value |
|-----------------------------|------------------------------------|
| Street Number | 140 |
| Route | Rutland Rd N |
| Sublocality | Rutland |
| Locality | Kelowna |
| Administrative Area Level 2 | Central Okanagan Regional District |
| Administrative Area Level 1 | British Columbia |
| Country | Canada |
| Postal Code | V1P 1P3 |

Copy to clipboard: Ctrl+C

Ok

5 SKYMAIL

SkyWeb allows for text messaging to and from aircraft provided the aircraft has a messaging interface installed such as a Dispatch Voice Interface (DVI), Cockpit Display Panel (CDP) or mobile device with RDA software.

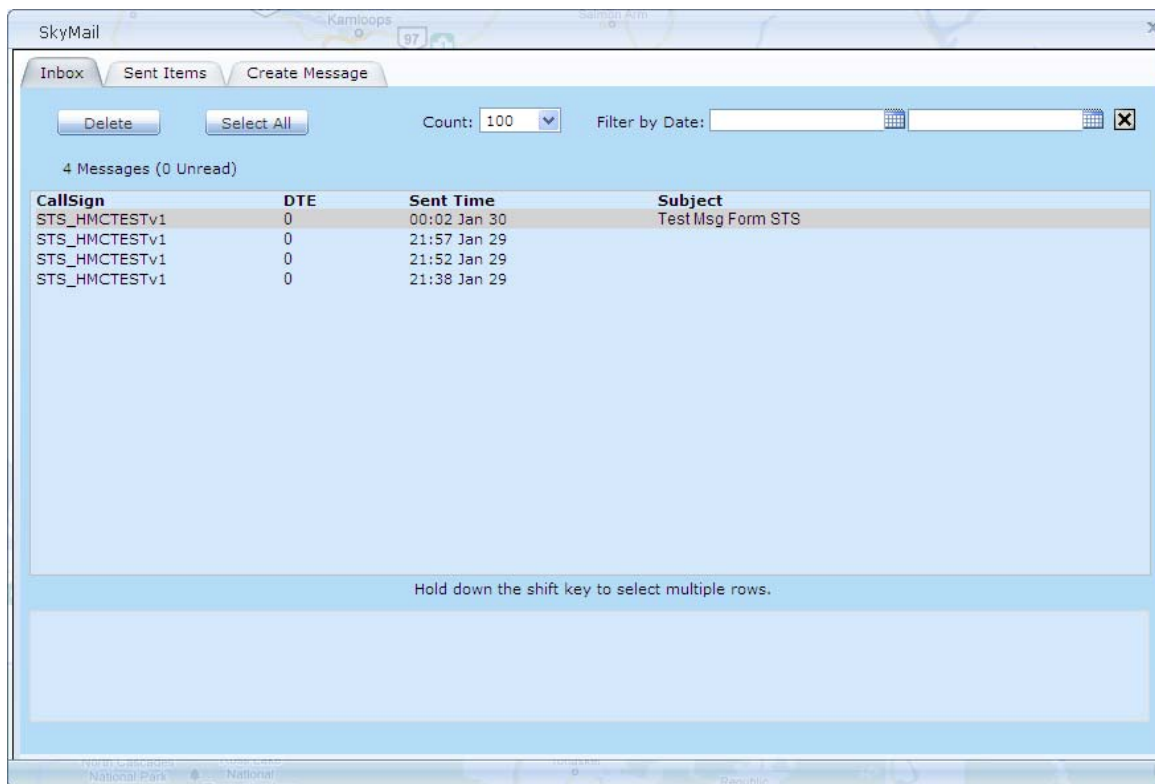
SkyMail can be accessed by clicking File > SkyMail or by clicking the envelope icon in the top right corner of the program. The SkyMail program has three tabs; Inbox, Sent Items and Create Message.



5.1 Inbox

This shows messages that have been sent from the aircraft. Selecting an item in the top half of the Inbox will cause the body of the message to be displayed below.

| Heading | Remarks |
|-----------|---|
| CallSign | Indicates the CallSign that sent the message |
| DTE | Indicates which item of Data Terminal Equipment on the aircraft received the message. Some aircraft may have multiple devices fitted and each device will have a different DTE number |
| Sent Time | Time that the message was sent |
| Subject | The message heading |

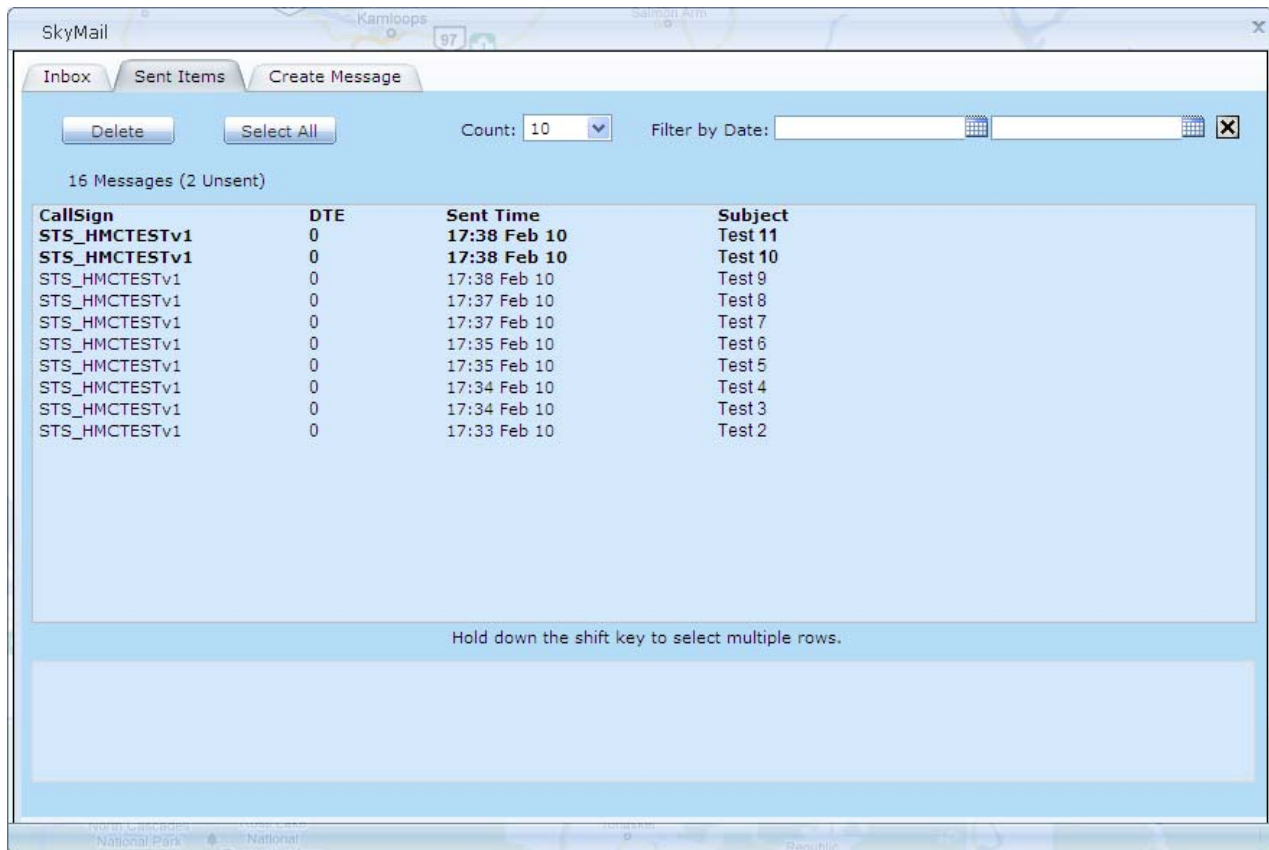


To delete messages from the 'Inbox' the user can click on the 'Delete' button. 'Select All' will select all of the messages currently displayed.

Changing the setting in the 'Count' drop-down menu will change the number of emails displayed. The user can select to view emails between certain dates by entering the relevant dates into the 'Filter by Date' fields using the calendars.

5.2 Sent Items

This shows messages sent to the aircraft. It uses the same headings as the Inbox.



5.3 Create Message

In order to send a message, the user must go to the Create Message tab, select the appropriate aircraft from the column on the left, and type the subject and body of the message to be sent. If the message is to be sent to a specific DTE (such as a terminal in the back of the aircraft), that can be selected. Only one DTE device can be selected, therefore if the user needs to send it to more than one they will have to send each one separately. Click the Send button and the message will be sent to the aircraft.

SkyMail

Inbox Sent Items Create Message

To: STS_HMCTESTv1

Subject:

Body:

Characters: 0 Max Characters: 1880

Your message has been put in the queue for sending.

Use Shift or Ctrl to select multiple units.

DTE Receive: ☒ 0 ☐ 1 ☐ 2 ☐ 3

Clear Send

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