

**PublicVue**  
**Version 3.0**  
**User's Guide**



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## INTRODUCTION

Harris' PublicVue™ (PublicVue) was developed to satisfy the needs of the noise and operations monitoring industry to not only display flight tracks, but to allow for additional capabilities as well. PublicVue supports most Internet-accessible browsers including Internet Explorer, Chrome and Mozilla. Additionally, mobile devices such as tablets and smartphones as well as Mac's and PC's interface with PublicVue.

For security purposes, public viewing of the Internet display will be delayed slightly (a minimum of 10 minutes or more depending upon the airport's requirements) with some aircraft filtered or modified by authorized airport personnel or the FAA. Harris adheres to all federal standards and guidelines as well as industry guidelines on aircraft information security and privacy. Viewers can see what is taking place above a specific geographic area or in relation to a specific physical address, with aircraft models displaying key details such as altitude or groundspeed. Registered/authenticated users may submit reports of noise disturbances via the PublicVue portal.

Note: Depending on the airport's set up, there may be some differences to the look, feel, and functionality.

## Accessing

To log into PublicVue, use your web browser to navigate to your PublicVue URL.

The default PublicVue interface displays.

If the PublicVue interface does not display, select Flight Tracking from the menu.

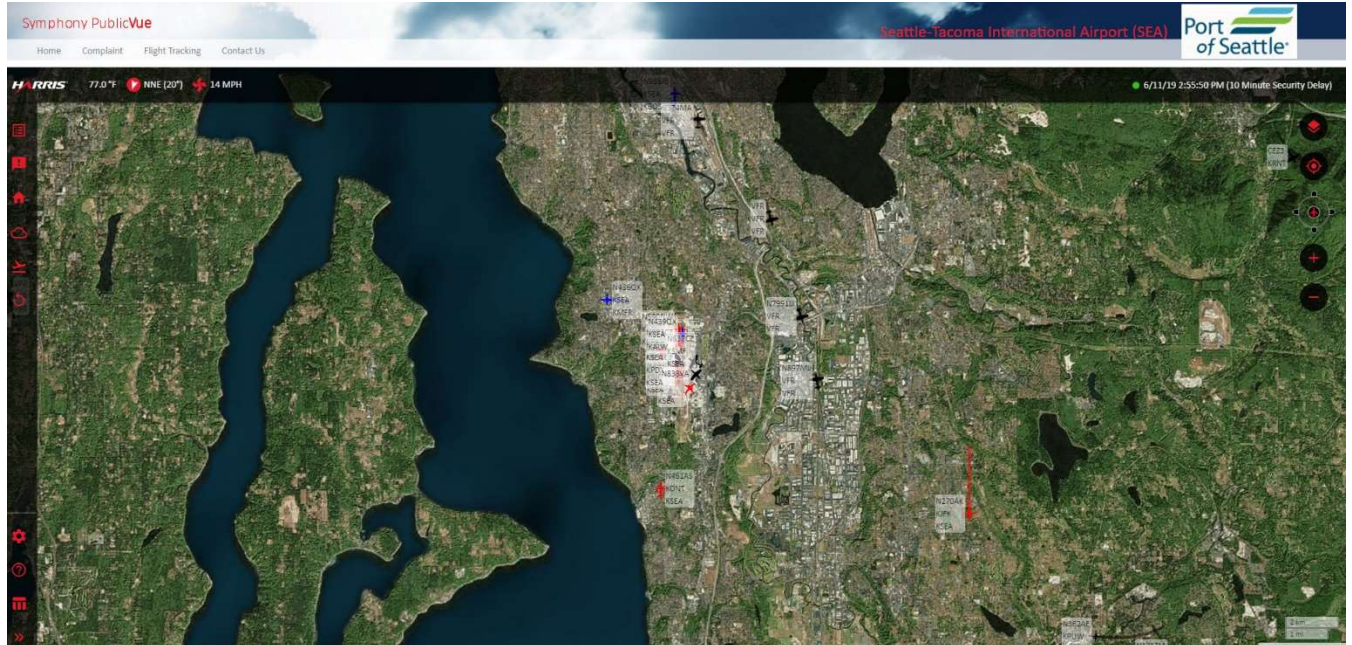



Figure 1: PublicVue





## Displaying the PublicVue Version

To view the version number of MobileVue, click the Help button  located on the left Side Navigation bar and then select Version (Figure 3).

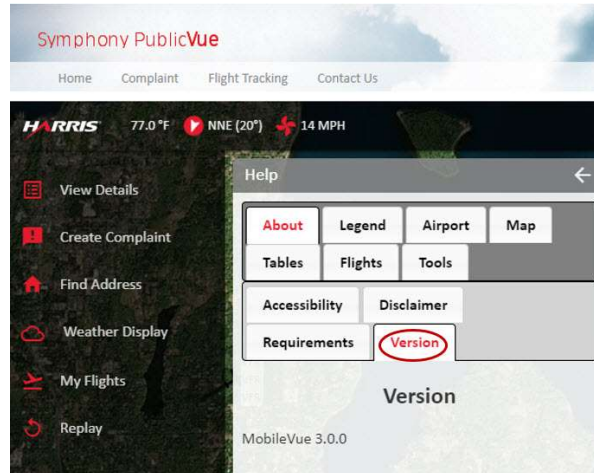


Figure 3: Help Button Version Tab

## Note to Mobile Device Users

PublicVue is fully supported on computers and mobile devices. Mobile device users should note that while this manual often uses terminology that may seem specific to computers (e.g., click), the functionality is available to mobile devices by performing the comparable action (e.g., tap).



# THE MAP

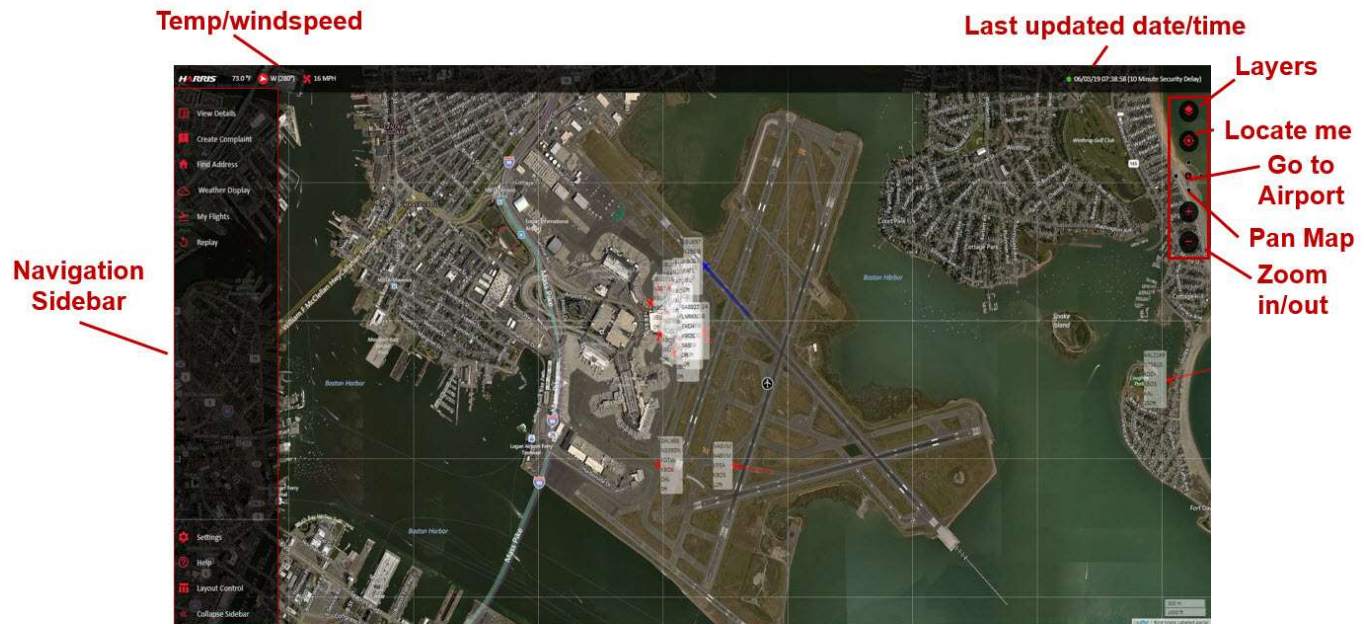
By default, the map displays all flights in the system. Flights are displayed using icons that represent the aircraft type. Surface vehicles are displayed as chevrons (▲). Different colors are used to distinguish between arrivals, departures, and overflights.

**Table 1: Default Icon Colors**

Type	Color
Arrivals	Red
Departures	Blue
Overflights	Green
Unknown	Black

Note that the flight icon colors shown in Table 1 are the defaults. Because these colors are configurable, they may be different for your system.

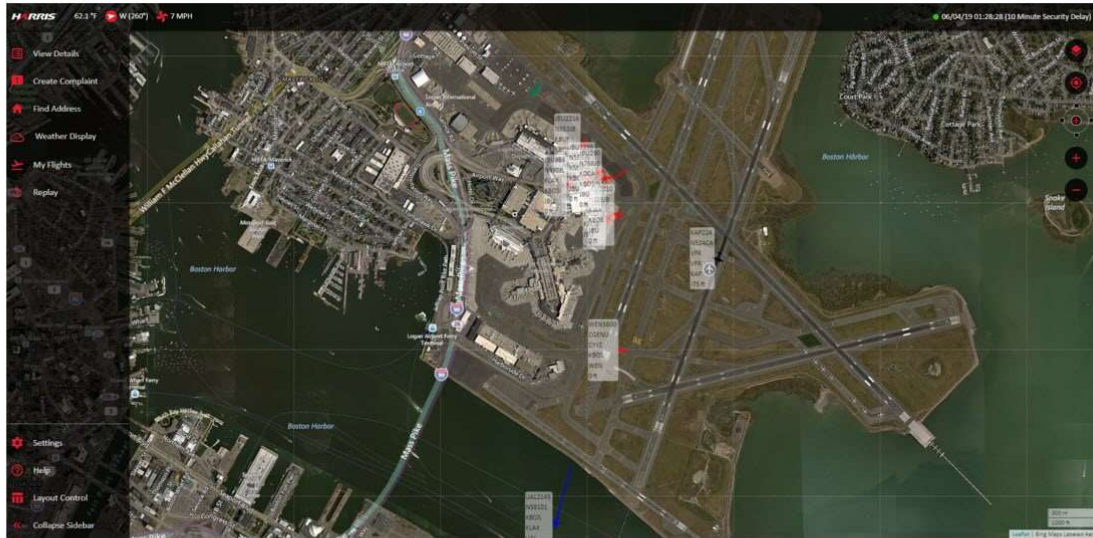
The various controls displayed on the map are discussed in the following sections.



**Figure 4: Map Controls**

## Expanding or Collapsing Sidebar

The map panel is always displayed, but you may Expand or Collapse the Sidebar by selecting the double arrows.



Double arrows to Collapse/Expand Navigation Sidebar

Figure 5: Expand or Collapse Navigation Sidebar

## Panning the Map

There are two options to pan the map. The first is to click on the map and drag. The second option is to use the compass control in the upper, right corner of the map. Click the four points of the compass to pan the map in that direction. For example, click the bottom point to pan down.



Figure 6: Panning with Compass Control

Mobile users may also tap and drag to pan the map.

## Zooming to Airport

To reset the map so that your airport is displayed at the center at the original zoom level, click the center of the compass control.

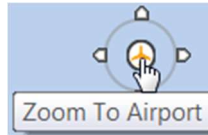


Figure 7: Zoom to Airport

## Zooming In/Out

The zoom control enables you to change the scale of the map. The zoom control is located on the right side of the map, below the compass control. Click the + or - buttons to zoom in or out.

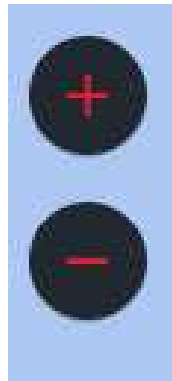


Figure 8: Zoom Controls

Mobile device users may also use pinch and zoom functionality on their device.

# Changing the Map Layer and Icons Displayed

By default, PublicVue displays the Bing Aerial map layer (Figure 9).



Figure 9: Bing Aerial Layer

PublicVue also includes several other layers:

Layer Name	Example
Bing Map Streets	

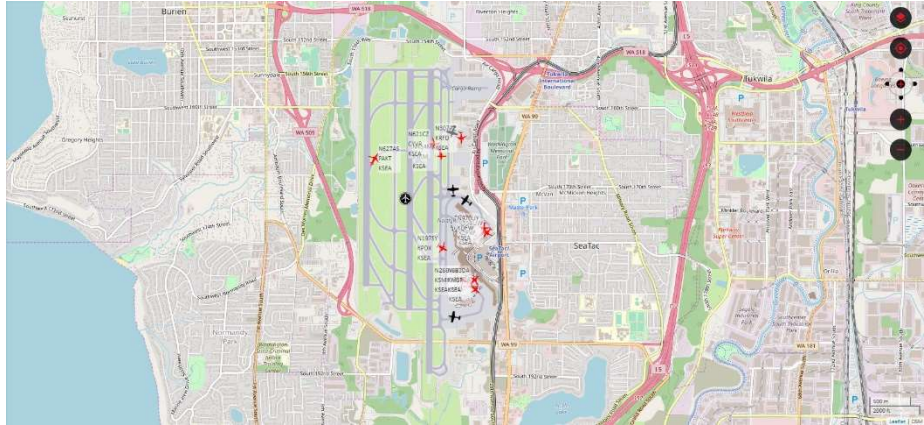


Layer Name	Example
------------	---------

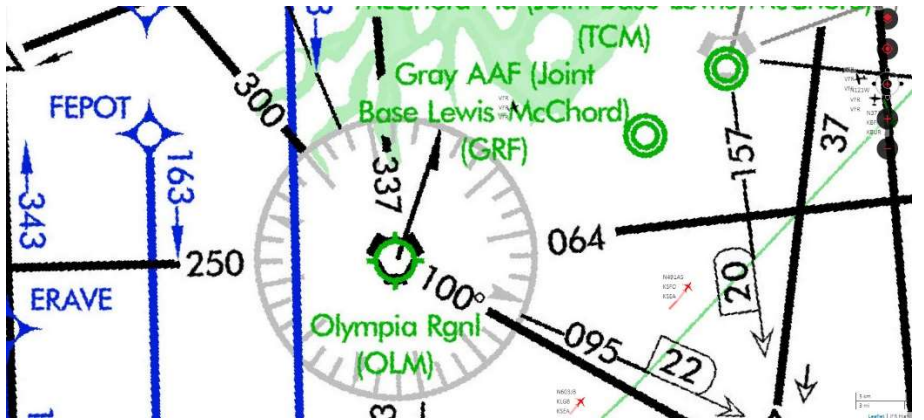
Bing Maps Labeled  
Aerial



Open Street Maps



IFR High (if elected)

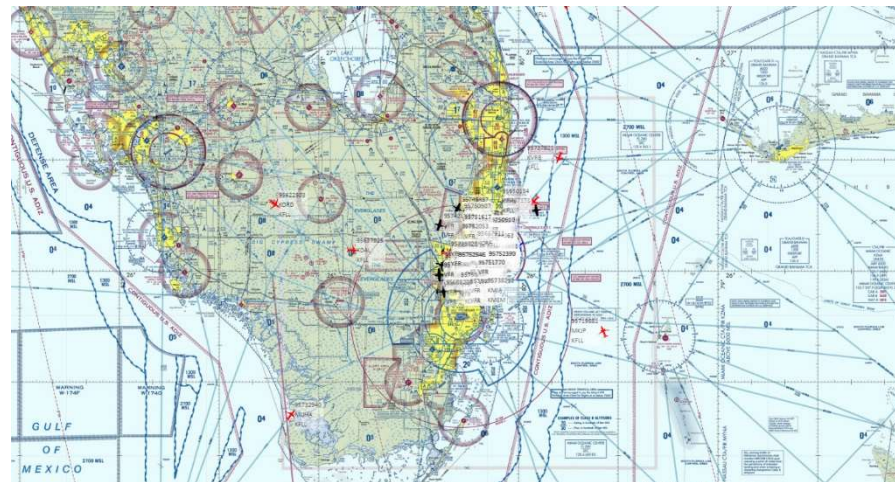


Layer Name	Example
------------	---------

IFR Low (if elected)



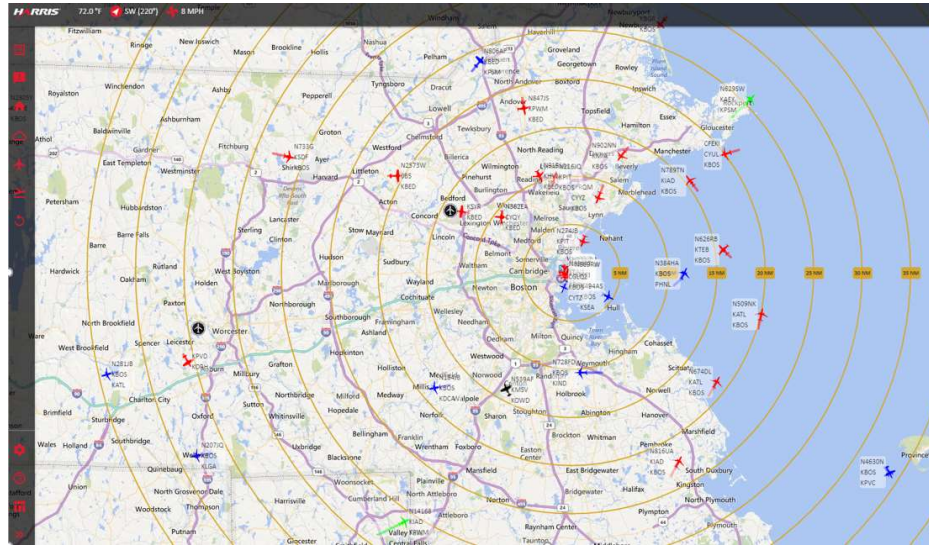
VFR (if elected)



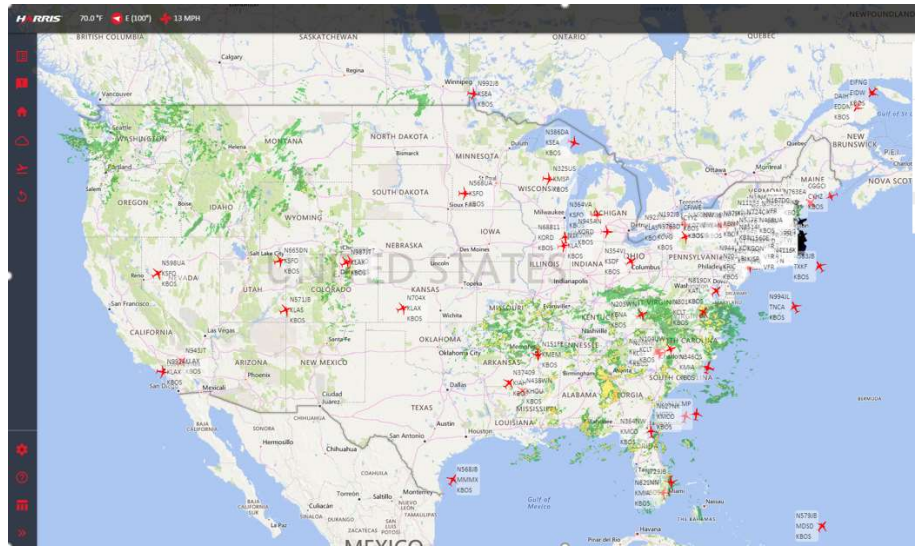


Layer Name	Example
------------	---------

Range Rings



US and Canadian Radar – 5 min update







The map also displays icons for the following object types by default:

- Arrivals
- Departures
- Overflights
- Unknown
- Surface vehicles (optional/if elected)
- Noise monitoring terminals
- Live weather (not available during replay)

## Changing the Map Layer

To change the map layer:

1. Click the layer control located in the upper right of the map.

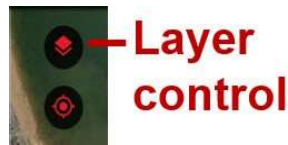


Figure 10: Layer Control

2. Select the layer you would like to display.

Maps listed may not be available for all sites.

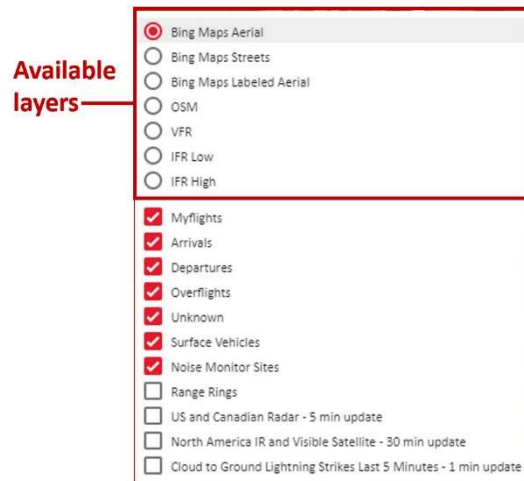


Figure 11: Available Layers

## Changing the Objects Displayed

You may control the objects displayed on the map using the layers control.

To change the objects displayed on the map:

1. Click the layers control.
2. To display an object on the map, ensure the object's checkbox is selected. To hide an object, de-select the object's checkbox.

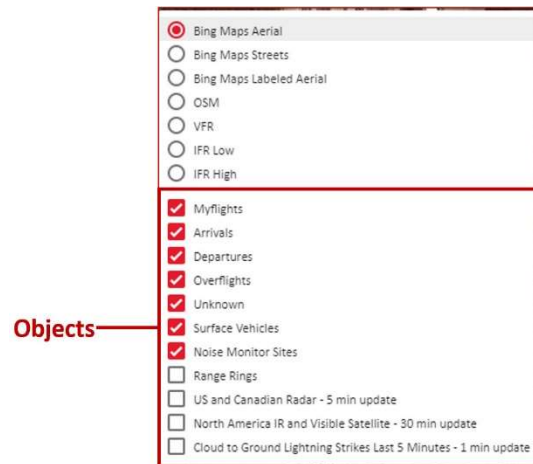


Figure 12: Map Objects

## Finding your Location

If your browser or device supports GPS location tracking, the map will include a Locate Me feature that centers your current location on the map. To find your location on the map, click the Locate Me button that is located below the layers control.



Figure 13: Locate Me Control

Your location is centered on the map and displayed with a blue circle.

## Viewing a Flight's Properties

To view the properties of a flight, click the flight's icon on the map.

A popup displays basic information about the flight. The Details tab in the left panel displays additional information about the flight.

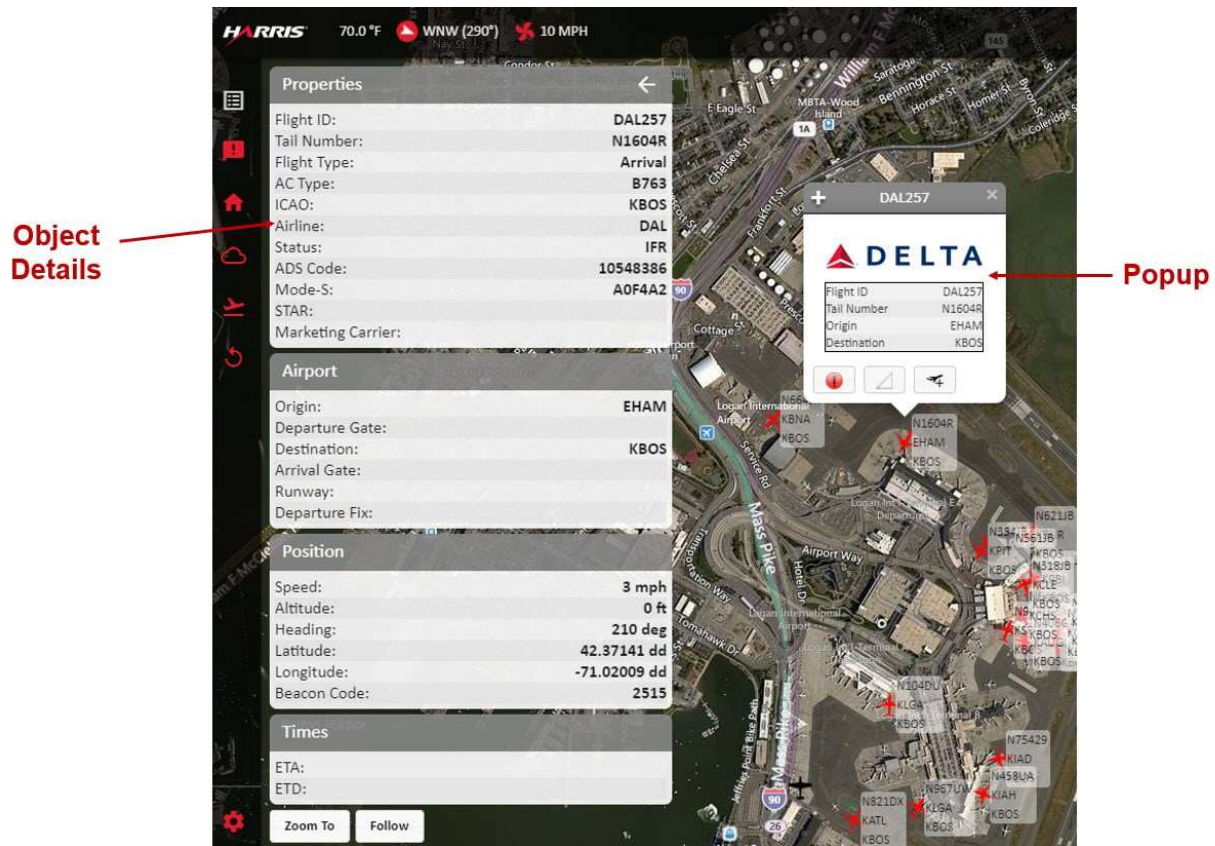


Figure 14: Object Popup and Details

To customize the fields displayed in a flight's popup, refer to page 35 for details.

## Centering the Flight on the Map

To zoom in on and center a flight on the map:

1. Click the flight's icon on the map.
2. Click the **Zoom To** button located at the bottom of the left pane's Details tab.




Figure 15: Zoom To Button

## Following a Flight

Following a flight automatically pans the map so that the flight displays at the center of the panel until you stop following the flight.

To follow a flight:

1. Click the flight's icon on the map. A popup displays information for the flight.
2. Do one of the following:
  - Click the  button that displays in the upper left of the popup.
  - Click the **Follow** button located at the bottom of the left pane's Details tab.

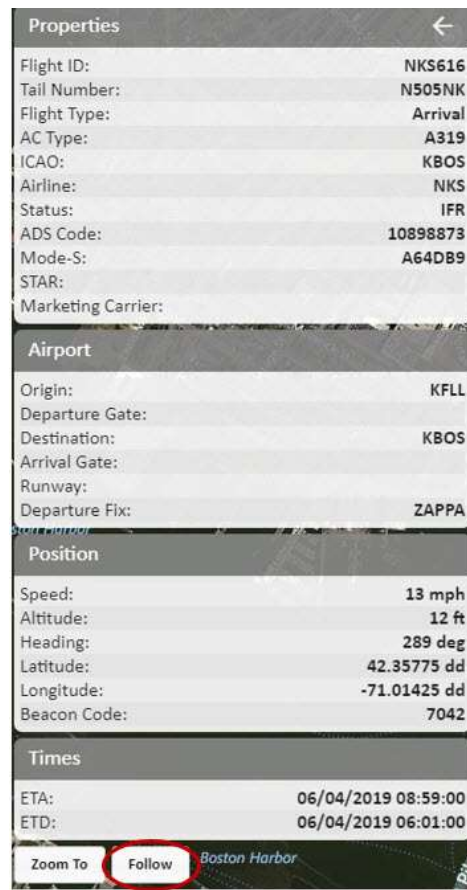
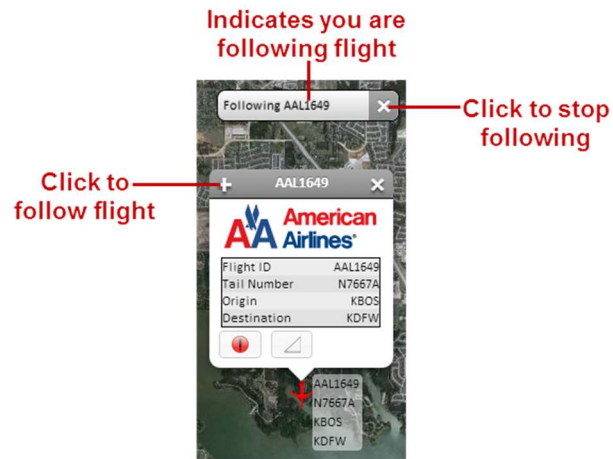


Figure 16: Follow Button

3. An indicator with the flight's ID displays.





**Figure 17: Following a Flight**

To stop following the flight, click the  button that displays in the indicator.



# MY FLIGHTS

The My Flights feature enables you to add flights that you are interested in to a list so that you can quickly find them on the map and view their slant range.

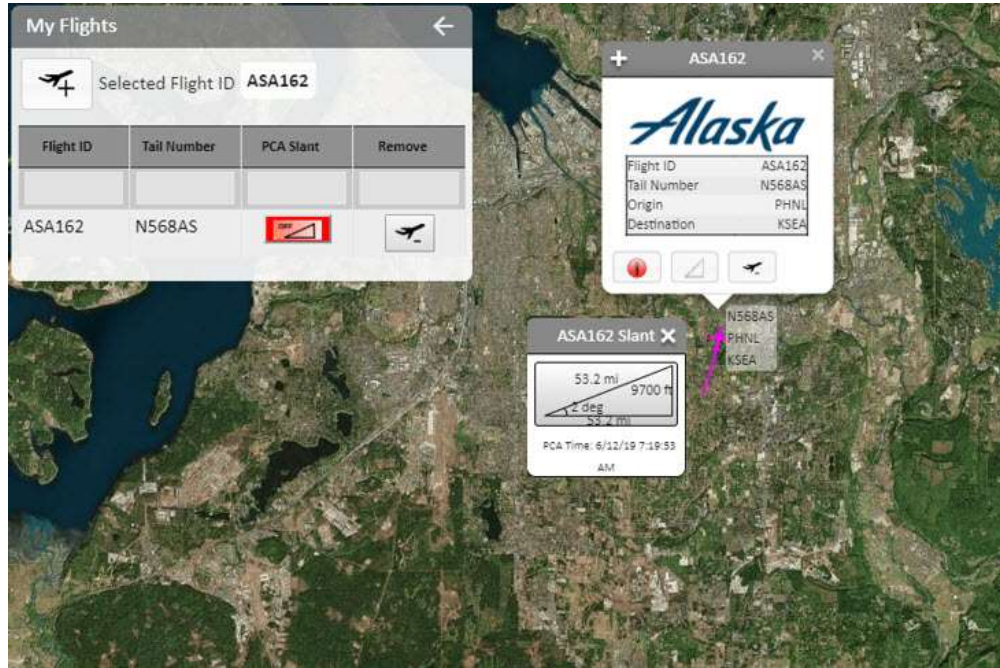
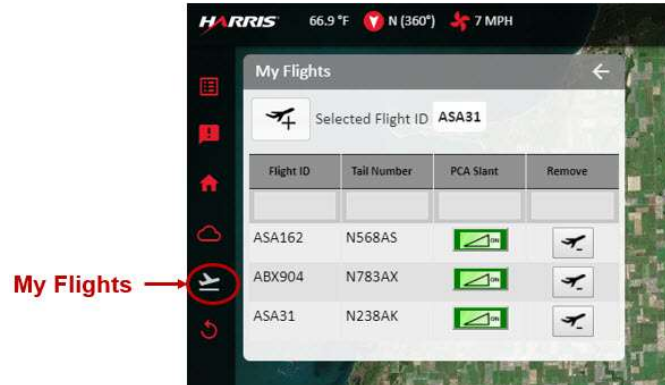


Figure 18: My Flights

## Adding Flights to Your List


To add flights to your My Flights list:

1. Select the **My Flights** tab from the Navigation Sidebar.



**Figure 19: My Flights Tab**


2. Select the flight you would like to add to your list from either the map or the Flights data table.

3. Click the  button. The flight displays in your list.

You may customize the color of flights in your My Flights list. Refer to page 32 for details.

## Displaying a Flight's Properties and Slant Range

After a flight is added to your list, you may display its properties by clicking the flight's row. A pop-up displays the flight's information.

The button in the PCA Slant column controls whether the flight's slant range is displayed. Toggle the button in the PCA Slant column to display or hide the flight's slant range. A red button (  ) in the PCA Slant column indicates that the slant range is hidden.

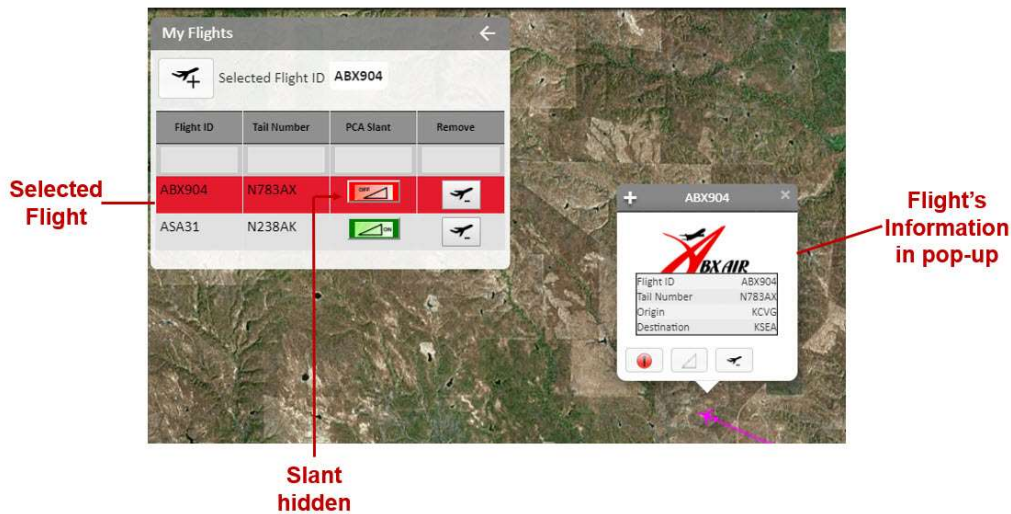


Figure 20: Selected Flight's Slant Hidden

A green button (  ) in the PCA Slant range column indicates that the slant is displayed.

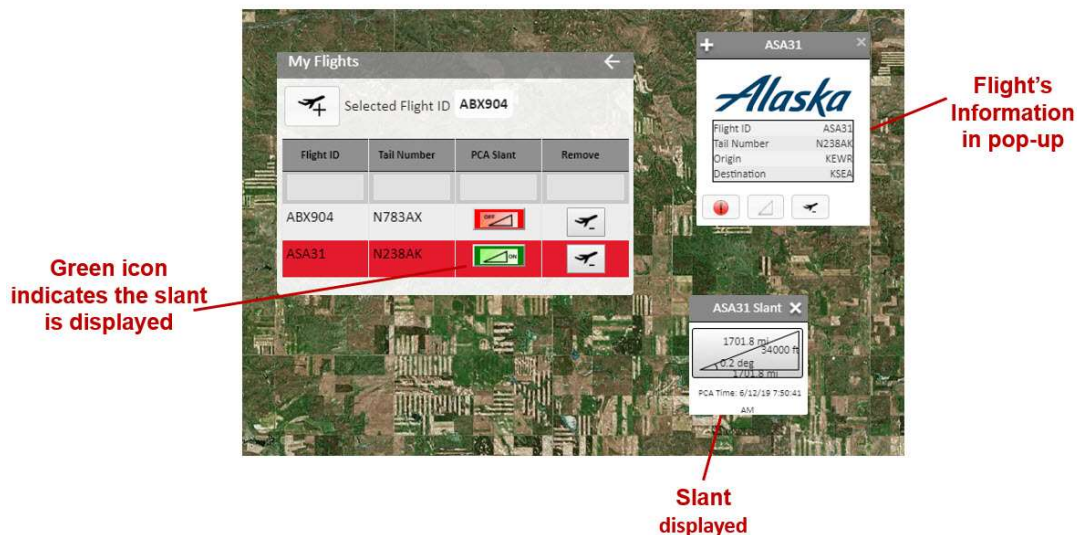


Figure 21: Selected Flight's Slant Displayed

## Removing a Flight from Your List

To remove a flight from your list, click the  button beside the flight.

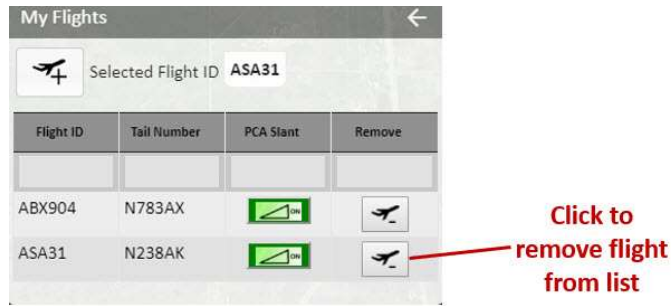


Figure 22: Remove Flight Button

## DATA TABLES

This section is only applicable if data tables have been activated for the airport.

The panel below the map displays tables containing flight and noise data.

To change the columns displayed in the Flights table, refer to page 35. To change the columns displayed in the Noise table, refer to page 35.

### Sorting

To sort the data in the tables by a particular column, click the column header to sort on. An arrow beside the column header indicates the sort column and order.

**Arrow indicates sort column**

Flights	Noise	Flight ID	Tail Number	Destination	AC Type
				▼	
		ABX904	N783AX	KSEA	B762
		FDX1423	N605FE	KSEA	MD11
		FDX1717	N313FE	KSEA	DC10
		ASA31	N238AK	KSEA	B739
		FDX1186	N775FD	KSEA	B752
		DAL1385	N854DN	KSEA	B739
		UAL280	N33132	KSEA	B752

Figure 23: Sort Column

## Filtering Data

Below the column headers are fields or list that enable you to filter the data displayed in the table (Figure 24).

**Filter fields and lists**

Flight ID	Tail Number	Origin	Destination
JBU288	N929JB	KLAX	KBOS
AAL2747	N925UY	KDFW	KBOS
UAL1253	N38473	KIAH	KBOS
UAL2396	N568UA	KSFO	KBOS
JBU11641	N3241R	KBOS	KBOS

**Figure 24: Filter Fields and Lists**

To filter the data displayed in the table:

- Specify the characters that data in the column must contain.
- Select the value that the data should equal from the list.

You may specify more than one filter. Note that if you specify multiple filters the row must meet all filters in order to be included (Figure 25).

**Filter on Flight ID**                      **Filter on Destination**

Flight ID	Tail Number	Origin	Destination	AC Type	Airline	ICAO
AAL			KBOS			
AAL2747	N925UY	KDFW	KBOS	A321	AAL	KBOS
AAL1099	N822NN	KMIA	KBOS	B738	AAL	KMIA
AAL1902	N842NN	KCLT	KBOS	B738	AAL	KCLT
AAL1423	N103NN	KLAX	KBOS	A321	AAL	KLAX
AAL2129	N767UW	KDCA	KBOS	A319	AAL	KDCA
AAL1497	N183AN	KDFW	KBOS	B752	AAL	KDFW
AAL2136	N953UW	KLGA	KBOS	E190	AAL	KLGA
AAI1151	N915UY	KPHI	KBOS	A321	AAI	KPVD

**Figure 25: Multiple Flight Filters**

## Removing Filters

There are several ways to remove filters from the data tables:

- To remove a filter on a text entry field, click the X in the field.
- To remove a filter from a list, select the blank entry that is located at the top of the list's values.

Removes value from filter field

Removes filter from list

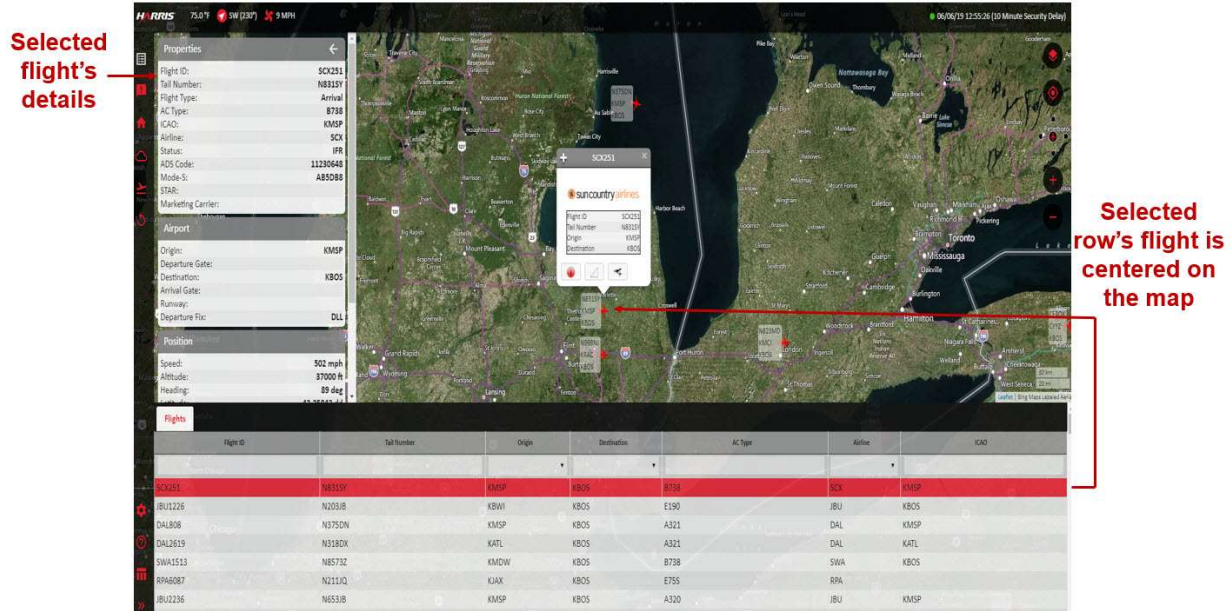
Flight ID	Tail Number	Origin	Destination	Ac Type
DAL			KSEA	
DAL2193	N690DL	KMSP	KSEA	B752
DAL2886	N3768	KBNA	KMSP	B738
DAL1768	N541US	PHOG	KOAK	B752
DAL2991	N3747D	KBOS	KONT	B738
DAL2885	N368NW	KAUS	KSEA	A320
DAL1253	N3740C	KRDU	KSEA	B738
DAL1385	N854DN	KCVG	KSEA	B739
DAL581	N595NW	KDTW	KSEA	B753

Figure 26: Removing Filters



## Centering Object on Map

To center the map on a particular flight or noise monitoring terminal, click the flight's row in the Flights table. The selected flight's details also display in the Navigation Sidebar View Details tab.



**Figure 27: Centering Flight on Map**

Clicking the row a second time displays the flight's details in a popup.

# TOOLS

## Viewing Weather

If you are in live mode, the weather displays the current weather. If you are in replay mode, the weather displayed is the weather at the replay time.

To view the current weather:

Select the **Weather Display** tab from the Navigation Sidebar panel

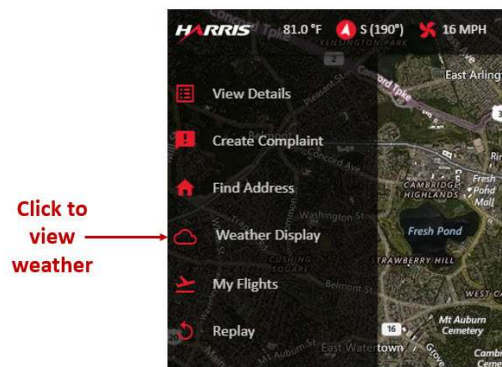


Figure 28: Weather Display

The Weather window displays the current weather.




Figure 29: Weather

# HISTORICAL REPLAY

Historical flight mode enables you to replay data from previous dates in one hour increments. After specifying the start time, PublicVue replays the events occurring one hour after the specified time.

## Replaying Events

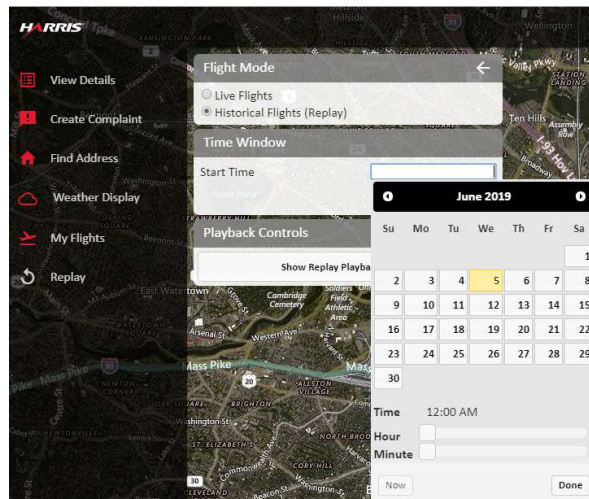
To replay events from a previous date:

1. Select the Replay icon  from the Navigation Sidebar
2. From the Flight Mode section, select **Historical Flights (Replay)**. The Time Window and Playback Controls sections display.



**Figure 30: Replay Tab and Historical Mode**

3. Click the **Start Time** field. A calendar displays.

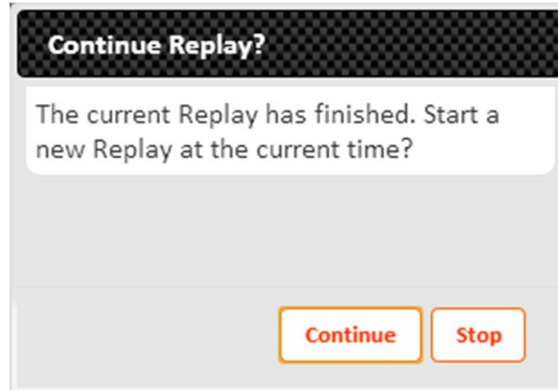


**Figure 31: Calendar**

4. From the calendar:
  - a. Select the date for which you would like to replay events.
  - b. Use the **Hour** and **Minute** sliders to specify the time at which to start the replay.
  - c. Click **Done**.
5. Click **Go**. The replay data is cached and replayed on the map.

Refer to page 30 for details on displaying and using the playback controls.

6. When the end of the one-hour increment is reached, you will be asked if you want to start a new replay starting with the current time. To continue the replay, click **Continue**.



**Figure 32: Continue Replay**

## Playback Controls

To display the playback controls, click the **Show Replay Playback Controls** button on the Replay tab.



**Figure 33: Show Replay Playback Controls Button**

The Current Time displays the playback time currently being shown on the map and data tables.

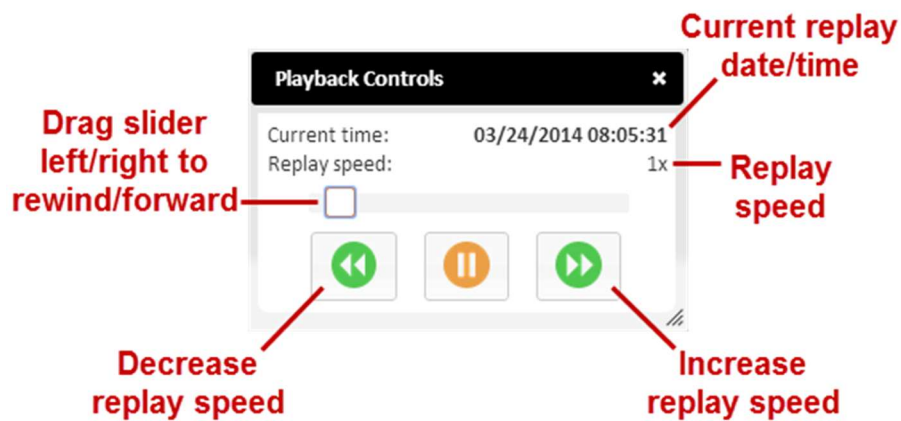
The Replay Speed indicates how fast the playback is occurring. To decrease the playback speed, click the



button. To increase the playback speed, click the



button. Each subsequent click of these buttons decreases or increases the playback speed.



**Figure 34: Replay Controls**


You may drag the slider control left to rewind the playback, or right to forward the replay.



## Viewing a Flight's Track

This feature is only available in historical replay mode. To enable historical replay, refer to page 28 for details.

To view a flight's track:

1. Ensure you are in historical replay mode.
2. Click the flight on the map. A popup displays information for the flight.
3. Click the  button in the popup.



**Figure 35: Flight Track Button**

The flight's trail displays in the same color as the flight. For example, if the flight is colored blue, its track also displays in blue.

# CUSTOMIZING PUBLICVUE

PublicVue enables you to customize icons, the map display, and the data fields displayed. These options are saved with your user profile so that your configuration settings are used each time you log into PublicVue.

## Customizing Flight Icons

To customize the flight icons:

1. From the left panel, click **Settings**. The Settings window displays.
2. Ensure that the **Flight** tab is selected.
3. To change the size of the icons, drag the **Icon Size** slider. To make the icons smaller, drag the slider to the left. To make the icons larger, drag the slider to the right.
4. To change the colors used for the icons, select the color beside the flight type category.
5. To display flight track trails, check the **Show Flight Track Trails** checkbox. If you enable flight track trails, you will also need to specify length of the trails in the **Flight Track Trail Length** field.

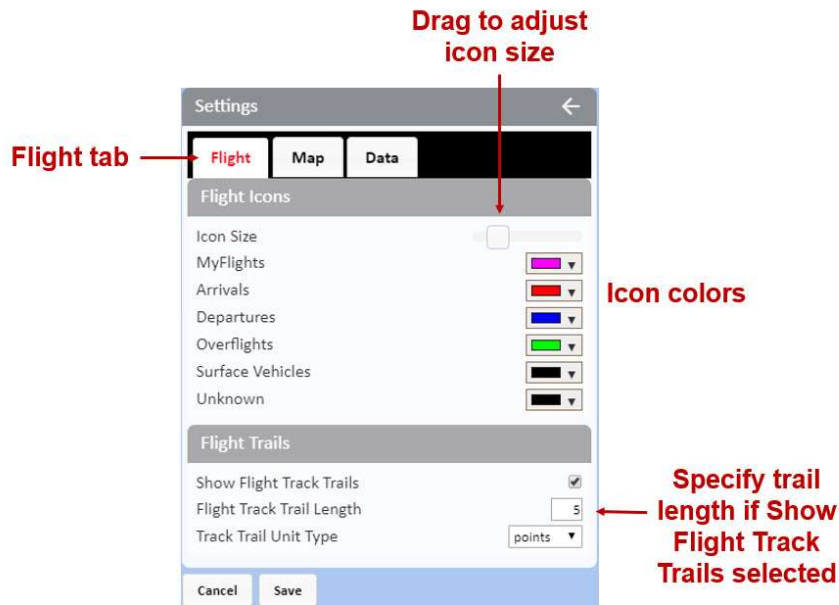


Figure 36: Flight Options

## Customizing the Map Display

Various aspects of the map may be customized.

To customize the map display:

1. From the left panel, click **Options**. The Options window displays.
2. Select the **Map** tab (Figure 37).

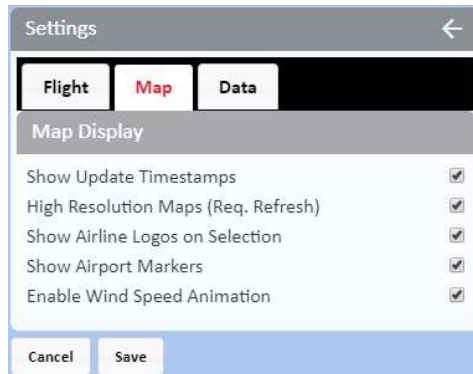


Figure 37: Map Tab

3. To display the update timestamp in the lower, left of the map (Figure 38), check the **Show Update Timestamps** checkbox.



Figure 38: Update Status

4. To display a high-resolution map, check the **High Resolution Maps** checkbox. If your device supports higher resolution maps (e.g., the Apple iPad's Retina display), you will want to select this option so that maps are displayed at a higher quality.
5. To display the airline logo in flights' popups (Figure 39), check the **Show Airline Logos on Selection** checkbox.



Figure 39: Airline Logo in Popup

- To display the airport marker at the airport, check the **Show Airport Markers** checkbox.

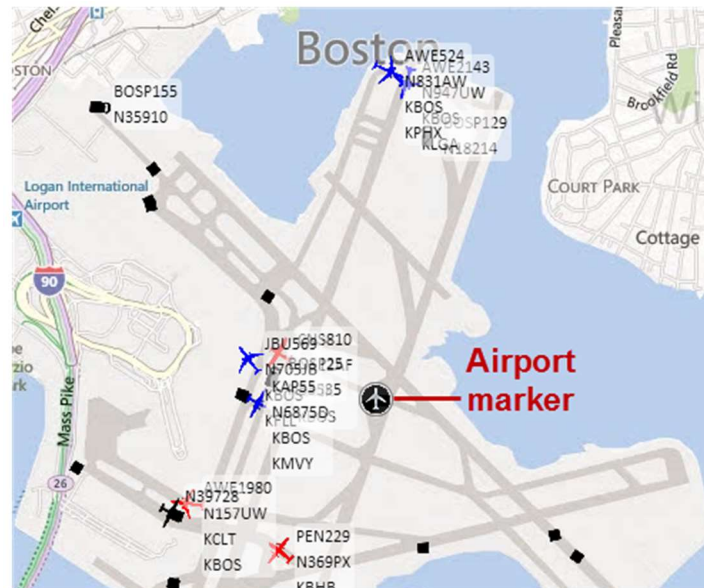


Figure 40: Airport Marker

- Click **Close**. The Options window closes.

## Customizing Data Table Display Fields

The fields displayed in the data tables may be customized.

To customize the fields displayed in a data table:

1. From the left panel, click **Options**. The Options window displays.
2. Select the **Data** tab.

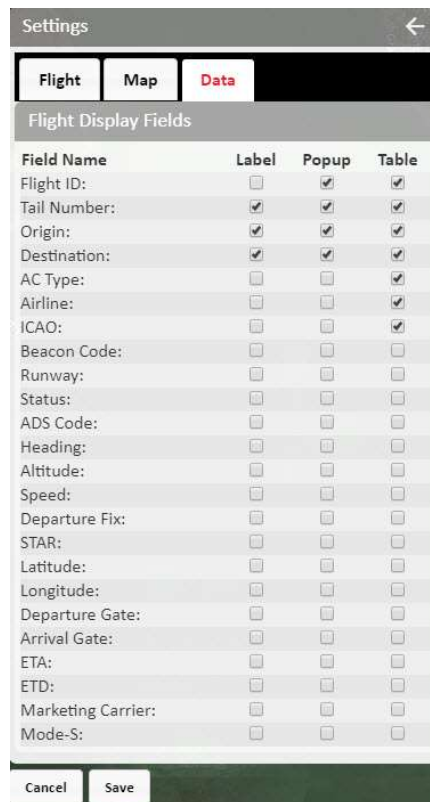


Figure 41: Data Tab

If your system includes multiple data tables, you may need to scroll down to the list to view the fields for the data table you would like to modify.

3. To include a field in the flight labels (Figure 42), check the field name in the **Label** column. The label is the text displayed beside the flight icon on the map.

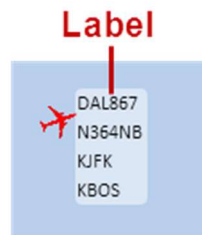
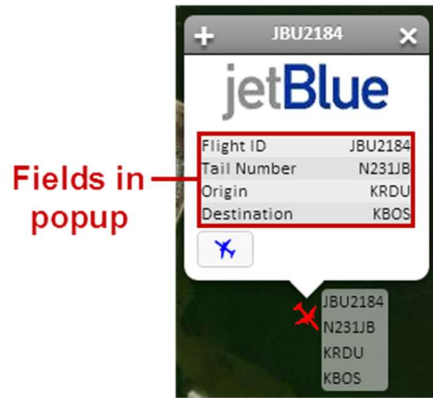


Figure 42: Flight Label



- To include a field in the flight popups (Figure 43), check the field name in the **Popup** column.



**Figure 43: Flight Popup Fields**

- To include a field in the Flights data table, check the field name in the **Table** column.

**Fields in Flights table**

The image shows a data table with a header row and several data rows. The header row has columns: 'Flight ID', 'Tail Number', 'Origin', and 'Destination'. A red rectangular box highlights the header row. A red arrow points from the text 'Fields in Flights table' to this box. The data rows contain flight information:

Flight ID	Tail Number	Origin	Destination
JBU288	N929JB	KLAX	KBOS
AAL2747	N925UY	KDFW	KBOS
UAL1253	N38473	KIAH	KBOS
UAL2396	N568UA	KSFO	KBOS
JBU2184	N231JB	KRDU	KBOS

**Figure 44: Flights Table Fields**

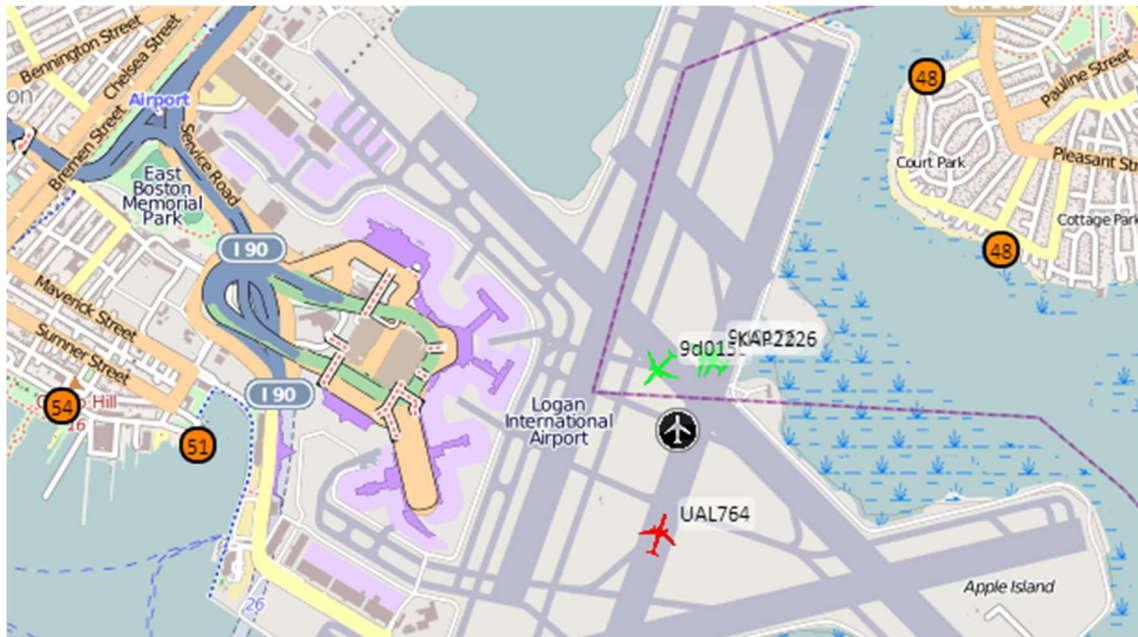
- Click **Close**. The Options window closes.

# NOISE MODULE

Note that the Noise Module is an optional module.

The Noise module enables you to view data from noise monitoring sites and perform functions such as viewing a flight's slant range in relation to your home address and creating a complaint.

Noise monitoring terminals (NMTs) are displayed as circles on the map. The current noise level detected by the NMT is displayed at the center of the circle.



**Figure 45: Map with Noise Monitoring Terminals**

NMTs are also colored so that you can distinguish the noise level at the NMT.

**Table 2: Default NMT Colors**

Noise Level	Color
Low	Yellow
Medium	Orange
High	Red

Note that the NMT icon colors shown in Table 2 are the defaults. Because these colors are configurable, they may be different for your system.

## Viewing a Noise Monitoring Terminal's Properties

To view the properties of a noise monitoring terminal (NMT), click the icon of the NMT.

A popup displays a graph of the event time histories.

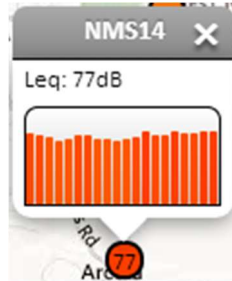


Figure 46: NMT Graph

You may mouse over any bar on the graph to view the noise level.

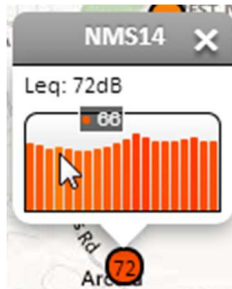


Figure 47: NMT Graph with Mouseover

## Centering the Map on an Address

To center the map on a specific address:

1. From the Navigation Sidebar, select the Find Address icon.
2. In the Find Address section, enter the address that you would like to center the map on.

Enter  
address to  
locate it on  
map

Figure 48: Find Address

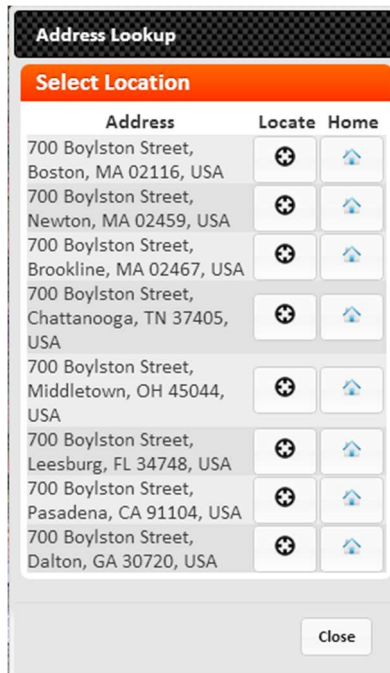
The Address Lookup popup displays.

3. From the Address Lookup window, click the  button beside the address to center the map on the address.



## Specifying a Home Address

Your home location is used to calculate a flight's slant range from the home location's address.

1. From the Navigation Sidebar, select the Find Address icon.
2. In the Find Address section, enter the address that you would like to use as your home location. The Address Lookup popup displays.



**Figure 49: Address Lookup**


3. From the Address Lookup window, click the  button beside the address specify it as your home location. The  icon displays on the map at the specified address.

## Viewing a Flight's Slant Range

PublicVue enables you to view a flight's slant range from the home location.

You must have your home location specified in order to view the slant range. For details on specifying your home location, refer to page 40.

To view a flight's slant range:

1. Click the flight's icon on the map. A popup displays information for the flight.
2. Click the  button in the popup. A popup displays the flight's slant range relative to your home location.

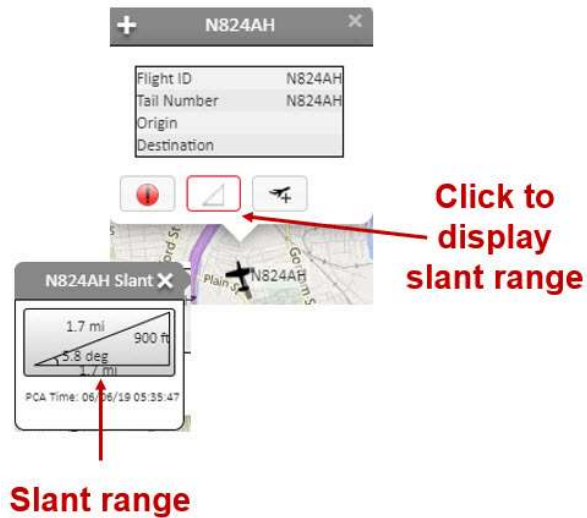


Figure 50: Slant Range



## Entering Complaints

There are two methods that can be used to create a complaint. In either method, complainants must be registered/authenticated prior to submitting complaint(s). Complainants may register by either selecting the Complaints menu option, or by selecting a flight (for either near real-time or historical replay).

### Creating a Complaint Manually

To create a complaint:

1. Select the **Complaint** menu.

Home **Complaint** Flight Tracking Contact Us

Symphony PublicVue

Seattle-Tacoma International Airport (SEA) Port of Seattle

Login

Please enter your **Login Name** and **Password** to get access to the complaint section. If you don't have a login account please use the registration link below to create a new one. If you already have a login account and don't remember your password please follow the directions in the link below for password recovery and assistance.

Username:

Password:

First time visitor? [Click here to register](#)

Can't remember your password? [Click here](#)

Figure 51: Complaint Menu

If you are a first-time visitor, you will need to register with PublicVue. Refer to page 44.

2. Enter your PublicVue username and password and click **Login**.
3. Click the **Submit New** menu option on the left. The Complaint Entry page displays.

Symphony PublicVue

Home Complaint Flight Tracking Contact Us

Seattle-Tacoma International Airport (SEA) Port of Seattle

COMPLAINT MENU

Submit New

Review

Profile

Password

Logout

Date and time of disturbance:

Start: mm/dd/yyyy hh:mm:ss 06/12/2019 08:02:17

End:

Complaint Airport: \*

Primary Disturbance: \*

Secondary disturbance: \*

Tertiary disturbance: \*

Comments: \*

Response Requested:

Figure 52: Complaint Entry Page

4. Complete the Complaint Entry form.
5. Click **Submit Complaint**.

You may view all complaints that you have submitted by selecting the **Review** menu option from the left.

Symphony PublicVue

Home Complaint Flight Tracking Contact Us

Seattle-Tacoma International Airport (SEA) Port of Seattle

COMPLAINT MENU

- Submit New
- Review**
- Profile
- Password
- Logout

### Complaints List

Start Date/Time	End Date/Time	Primary Disturbance	Secondary Disturbance	Tertiary Disturbance	Complaint Comment	Complaint Status	Airport
No complaints were found for your login name							

**Figure 53: Complaint List**

## Registering a PublicVue Account

To register with PublicVue:

1. Click the **Click here to register link** located on the Login page of the Complaint menu.

The screenshot shows the top navigation bar with 'Symphony PublicVue' on the left and 'Seattle-Tacoma International Airport (SEA)' and 'Port of Seattle' on the right. Below the navigation bar is a 'Login' section. It contains a message: 'Please enter your Login Name and Password to get access to the complaint section. If you don't have a login account please use the registration link below to create a new one. If you already have a login account and don't remember your password please follow the directions in the link below for password recovery and assistance.' There are two input fields for 'Username' and 'Password', and two buttons: 'Login' and 'Reset'. Below the input fields, there are two links: 'First time visitor? [Click here to register](#)' and 'Can't remember your password? [Click here](#)'. The 'Click here to register' link is circled in red.

**Figure 54: Click Here To Register Link**

The Registration page displays.

The screenshot shows the 'Registration' page. It has the same top navigation bar as Figure 54. Below the navigation bar is a 'Registration' section. It contains a form with the following fields: 'First Name: \*', 'Middle Initial:', 'Last Name: \*', 'Address Line 1: \*', 'Address Line 2:', 'City: \*', 'State: \*' (a dropdown menu), 'Zip Code: \*', 'Phone: \*', 'Cell Phone:', 'Email: \*', 'Choose a Login Name: \*', 'Choose a Password: \*', and 'Confirm Password: \*'. There is a 'Submit Registration' button at the bottom of the form.

**Figure 55: Registration Page**

2. Complete all fields on the page.
3. Click **Submit Registration**.

## Creating a Complaint While Tracking Flights

To create a complaint while you are tracking flights:

1. Do one of the following:
  - From the Navigation Sidebar, click **Create Complaint**.

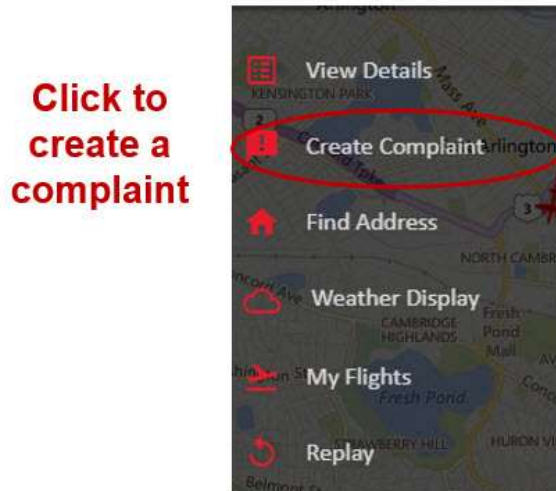


Figure 56: Create Complaint from Navigation Sidebar

- Display a flight's popup and click the  button. Creating the complaint from the popup automatically populates the complaint window with the flight's ID and tail number.



Figure 57: Create Complaint from Flight Popup

The Create Complaint window displays.

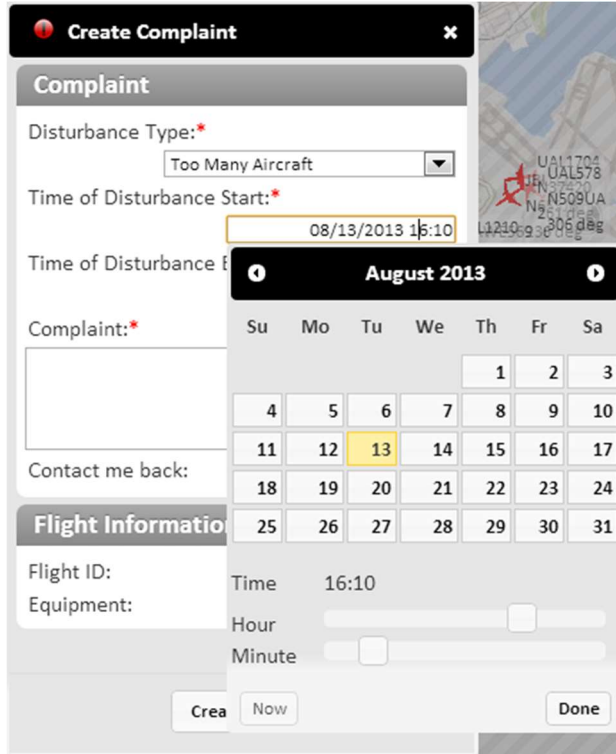
**Figure 58: Create Complaint Login**

2. Enter your PublicVue username and password and click **Log In**.

If you do not have a PublicVue Complaint user account, refer to page 48.

The Create Complaint window displays.

**Figure 59: Create Complaint Window**



**Figure 60: Create Complaint Calendar**

3. Select the type of disturbance from the **Disturbance Type** list.
4. Click the **Start Time** field. A calendar displays.
5. From the calendar:
  - a. Select the date for which you would like to replay events.
  - b. Use the **Hour** and **Minute** sliders to specify the time at which to start the replay.
  - c. Click **Done**.
6. Click the **End Time** field and specify the end time.
7. Enter any text you want to include with the complaint in the **Complaint** field.
8. If you know the flight information associated with the complaint, enter the flight ID and tail number.
9. Click **Create**.



## Creating a PublicVue Complaint Login

To create an account:

1. From the Create Complaint Login window, click **Register New Account**. The Create User window displays.

**Create User** [X]

**Account Information**

Username\*

Password\*

First Name

Last Name\*

Home Phone #

Cell Phone #

E-mail

Street\*

City\*

State\*

Zip Code\*

**Validation**

Please enter the verification phrase below:\*

**Figure 61: Create User**

2. Complete the Account Information section of the form with your information.
3. In the Validation section, enter the characters that you see in the field.
4. Click **Create User**.