

Mission Tools Suite (MTS)

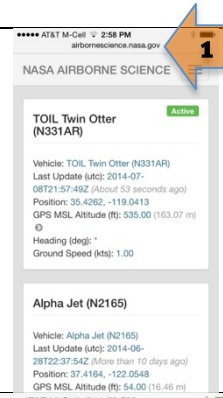
HS3 Step-by-Step Instruction Guide – Year 2014 <http://mts.nasa.gov/group/hs3/>

Note: This document provides a step-by-step guide for you to follow along and learn MTS. The screen shots in this guide may look different to what you see online if there have been updates to the application and/or configuration changes to the HS3 workspace.

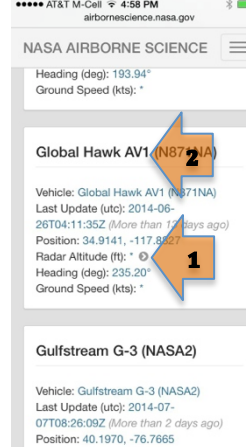
MTS Mobile for smart phones or tablets

Access using your smart phone browser

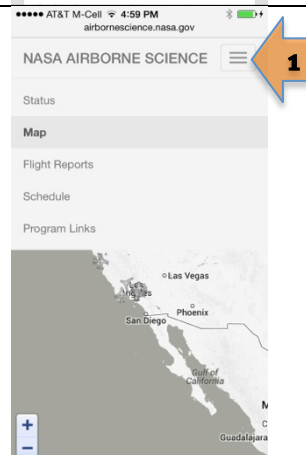
1. For example, with an iphone, launch Safari and type in the link for MTS mobile <http://airbornescience.nasa.gov/tracker/m/>
➤ A list appears of vehicles tracked with MTS will appear

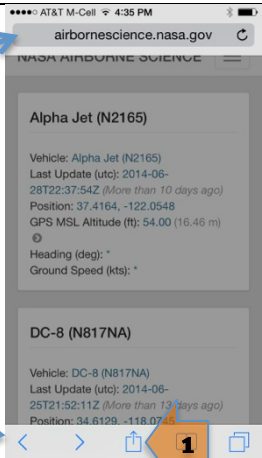
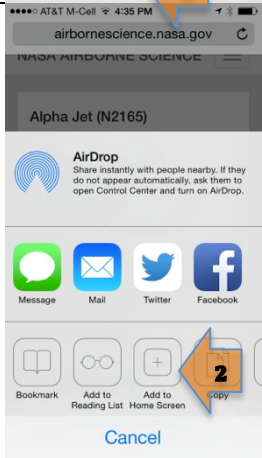
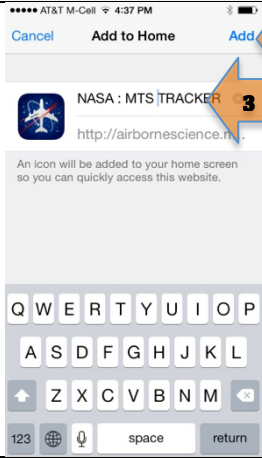
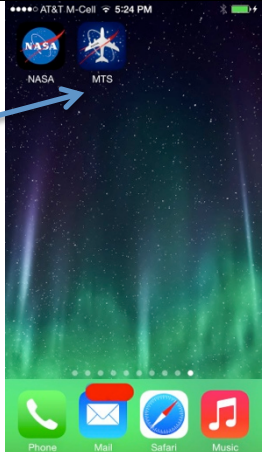


1. Scroll down the list to Global Hawk and touch the arrow for the Altitude to cycle through which altitude to display.
2. Touch the Global Hawk name to launch the map view



1. Click on the index icon to see available information that can be shown like Status, Map, a link to Flight Reports, etc...



➤ Depending on your smart phone, you may have the ability to create an icon for easy launching of this mobile website 1. For example with an iphone, click on the Action icon ➤ This command bar shows up at the bottom of a webpage. You may have to tap at the <i>address bar</i> area for the <i>command bar</i> to appear.	
2. Click on Add to Home Screen	
3. Name the icon, i.e., MTS 4. Click Add	
➤ The MTS Tracker icon will show up. By clicking on this icon, it will launch your browser and take you right to the mobile webpage.	

How to Sign On

New Users: Request an Account

- From your browser, link to MTS <http://mts.nasa.gov>
- Scroll down and click on Request an Account
- Inside the email, mention you are part of the HS3 Mission

MTS Guide

The MTS home page has a helpful Getting Started section with details on how to use the Aircraft Monitor, different commands available in the Chat Client and how to use the Instrument Display.

MTS Welcome

1. Click on the Welcome Tab.

The MTS Welcome page lists various projects using MTS.

2. Click on the HS3 logo.

HS3 Page

1. Click on My Sites to go back and forth between the MTS Home page with the Guide and the HS3 Page

The screenshot shows the Mission Tools Suite (MTS) website. At the top, there is a navigation bar with 'Mission Tools Suite', 'Welcome', and 'Guide'. The 'Welcome' tab is highlighted with a blue circle and a blue arrow labeled '1'. Below the navigation bar, there is a section titled 'About this Guide' followed by a paragraph of text. Below that is a section titled 'About the Mission Tools Suite (MTS)' followed by a quote and a paragraph of text. Below the text, there is a large section titled 'Mission Tools Suite' with a sub-header 'The NASA Airborne Science Mission Tools Suite (MTS) is a collection of web-based tools to assist with the planning, operations, and overall management of airborne missions. MTS is a product of the NASA Airborne Science Program. Please visit the Program's web site for additional information.' and a 'Learn more »' button. Below this, there is a section titled 'You are signed in as Susan McFadden. You have access to the following projects:' followed by a row of project logos: ATTREX, CARVE, COMEX, HS3, HypsIRI, and IPHEX. The HS3 logo is highlighted with a blue arrow labeled '2'. Below the project logos, there is a 'My Sites' dropdown menu with a blue arrow labeled '1' pointing to it. The dropdown menu lists the following sites: ATTREX, CARVE, COMEX, Mission Tools Suite (highlighted with a blue arrow labeled '2'), HS3, HypsIRI, IPHEX, MIZOPEX, MTSE, NOAA, Operation Ice Bridge, SABOR, and SEAC4RS. Below the dropdown menu, there is another 'Mission Tools Suite' section with a sub-header 'The NASA Airborne Science Mission Tools Suite (MTS) is a collection of planning, operations, and overall management of airborne missions. MT Science Program. Please visit the Program's web site for additional information.' and a 'Learn more »' button.

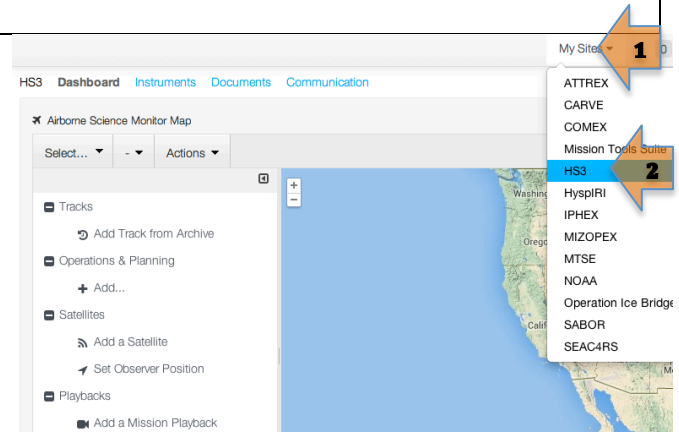
Link directly to the HS3 Workspace

- The HS3 Workspace includes various tools for communication such as message board, bookmarks, and documents for the HS3 site members to share information
 1. From your browser, link to the HS3 Configuration at
<http://mts.nasa.gov/group/hs3/>
 2. Type in your Username (email address) and Password
 3. Click **Sign In**



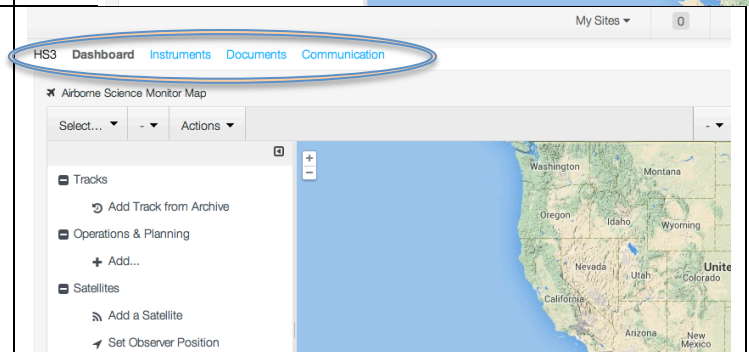
- Confirm the HS3 Workspace is loaded

1. Click on **My Sites** in the upper right corner
 2. **HS3** should be highlighted. If not, select it.
- HS3 Products should appear in the Bundles section of the Index



HS3 Workspace

- The Tabs in the HS3 Workspace include:
 - Dashboard
 - Monitor Map
 - Chat
 - Camera
 - Instruments
 - Documents
 - Communication
 - Wiki (Frontpage)
 - Bookmarks

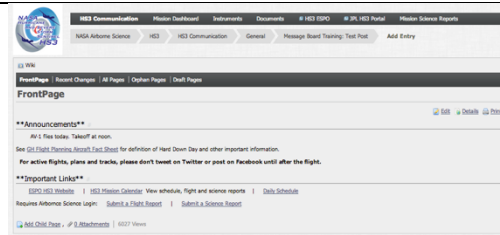


Dashboard Tab

Map

1. Click on the **Dashboard Tab**

- All tabs are at the top of the page so you may have to scroll to the top
- If you get a message “A configuration has not yet been applied. Would you like to apply one now?” do apply the HS3 configuration.



Confirm using HS3 Workspace

- At anytime, you can click on the gear icon in the upper right to access Settings and apply a configuration

Settings

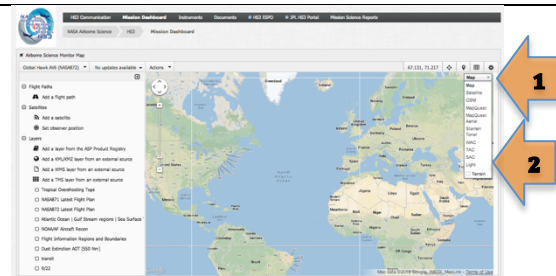
Apply an Existing Settings Configuration

Select a configuration from the list and then click apply. This will :

HS3 Default Configuration Apply Reload

Change the Base Layer

1. Click on the pulldown for **Map**
 2. Select Light (useful when viewing a lot of overlays)
- Try the others to see what they look like

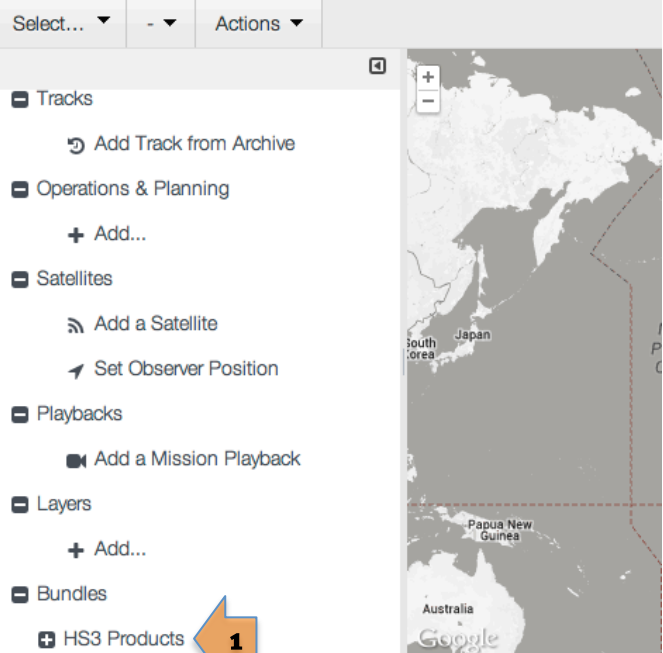


Expand the HS3 Product Bundle

1. Scroll down the index and click on the Plus sign (+) for **HS3 Products**

HS3 Dashboard Instruments Documents Communication

Airborne Science Monitor Map



This is where you will find products helpful for the HS3 Mission.

1. Click on the plus sign for **Planned Flight Tracks**
 - When the Mission is active, you can Click on the check box for the **Global Hawk AV1 (NASA871)** to display the latest flight plan
 - Flight plans will always be loaded to the same file location in MTS Documents to make it easy to view here in the map

Airborne Science Monitor Map

Select...

-

Actions

HS3 Products

- ☒ Aircraft Operations & Planning
- ☒ Radar Products
- ☒ Lightning Products
- ☒ Satellite Products
- ☒ Aircraft Payload
- ☒ Forecast & Model Products
- ☒ Tropical Cyclone Tracking
- ☒ JPL HS3 Products
- ☒ Planned Flight Tracks
 - ☐ Global Hawk AV1 (NASA871)
 - ☐ Global Hawk AV6 (NASA872)
 - ☐ ER-2 (NASA809)



View an Overlay

- Layers considered useful for HS3 are pre-loaded in the configuration so you only have to click on the checkbox to view.
 1. Scroll down to view items under Bundles
 2. Click on the plus sign by **HS3 Products** to expand the list

Airborne Science Monitor Map

Select an aircraft ...

Actions

Flight Paths

☐ Add a flight path

Satellites

☐ Add a satellite

☐ Set observer position

Layers

☐ Add a layer from the ASP Product Registry

☐ Add a KML/KMZ layer from an external source

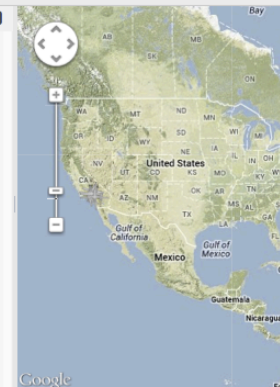
☐ Add a WMS layer from an external source

☐ Add a TMS layer from an external source

Bundles

☐ Add a bundle from the ASP Product Registry

☒ HS3 Products



3. Click on the plus sign by **Satellite Products** to expand the list
4. Click on the plus sign for **GOES Standard Products**
5. Click on the check box for the **GOES Water Vapor**

Airborne Science Monitor Map

Select an aircraft ...

Actions

☐ Add a TMS layer from an external source

Bundles

☐ Add a bundle from the ASP Product Registry

HS3 Products

☒ Aircraft Operations & Planning

☒ Radar Products

☒ Lightning Products

☒ Satellite Products

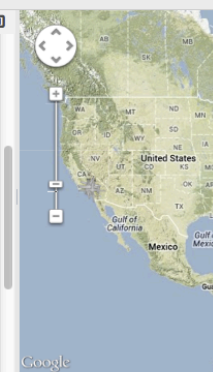
☒ GOES Standard Products

☐ GOES Water Vapor

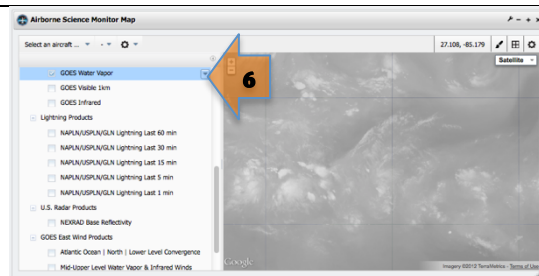
☐ GOES Visible 1km

☐ GOES Infrared

☒ NRL Satellite Products



6. Hover your cursor over **GOES Water Vapor** until a down arrow icon appears which will provide actions we can apply
7. Click on the down arrow
8. Select **Configure**



9. Adjust the Opacity level lower to 50%
10. Scroll down and click **Save**

- This will change the translucency to show the map below for perspective.
- If you do not see the down arrow, you may need to adjust the width of the windows. Put your cursor on the line between the windows until the resize icon appears and drag to make the index area larger.
- Note that you can also change the refresh rate on the overlay. FYI: The information refreshed is only as current as what is available to pull into MTS. If a satellite has already passed, the information displayed could be hours old. Some overlays have a date stamp visible if zoomed in enough.

General

Label

Opacity

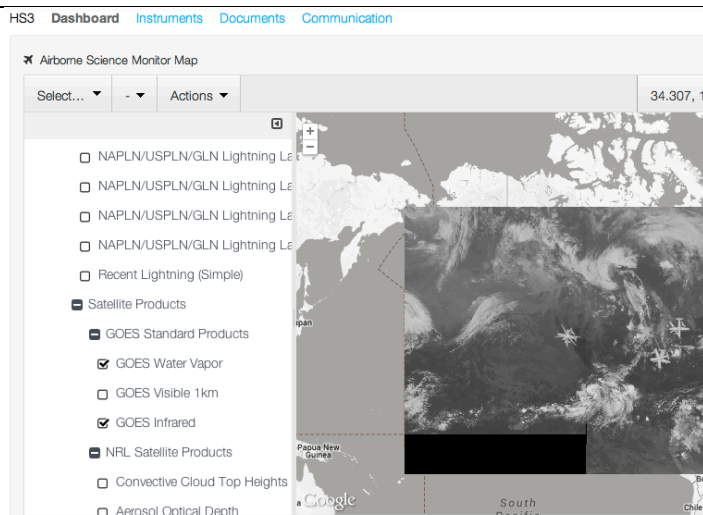
0 100% (63%)
 Setting this value will not alter the transparency of some layers.

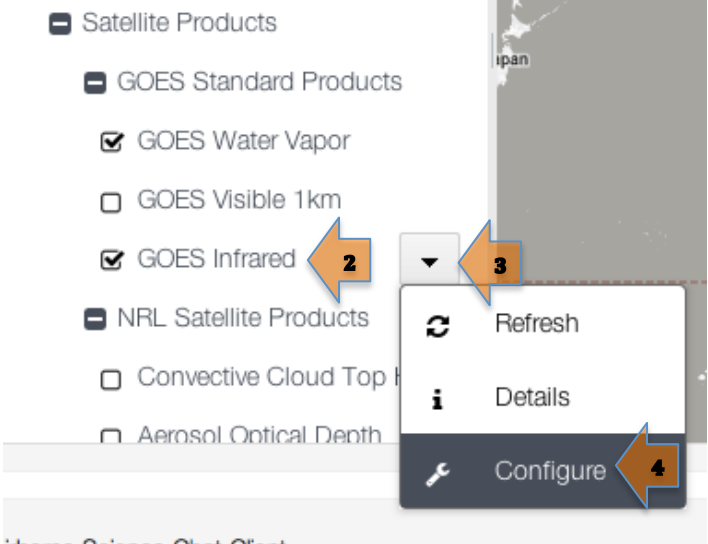
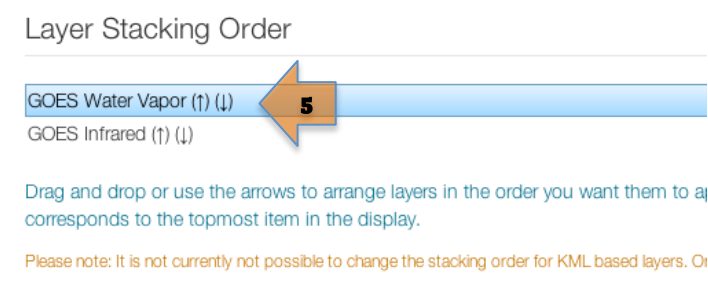
☒ Enable auto-refresh

Refresh Latency

1 60 Minutes
 Layer will refresh every 5 Minute(s)

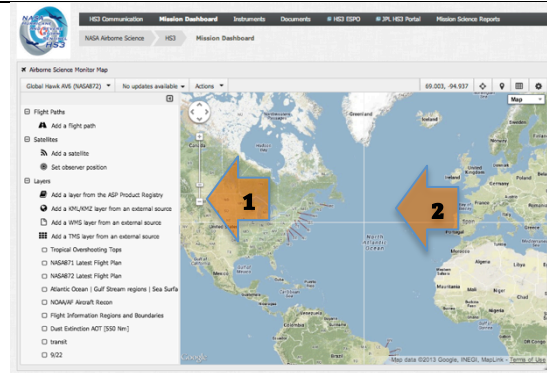
1. Click on the checkbox to add the overlay for **GOES Infrared**



2. Hover your cursor over GOES Infrared until a down arrow icon appears which will provide actions we can apply 3. Click on the down arrow 4. Select Configure	 Satellite Products - GOES Standard Products ☒ GOES Water Vapor ☐ GOES Visible 1km ☒ GOES Infrared - NRL Satellite Products ☐ Convective Cloud Top ☐ Aerosol Optical Depth Dropdown menu options: - Refresh - Details - Configure
5. The stacking layer can be adjusted by dragging the highlighted names. 6. Click Save to return to the Dashboard.	 Layer Stacking Order - GOES Water Vapor (T) (I) - GOES Infrared (T) (I) Drag and drop or use the arrows to arrange layers in the order you want them to appear. The order corresponds to the topmost item in the display. Please note: It is not currently possible to change the stacking order for KML based layers. Or

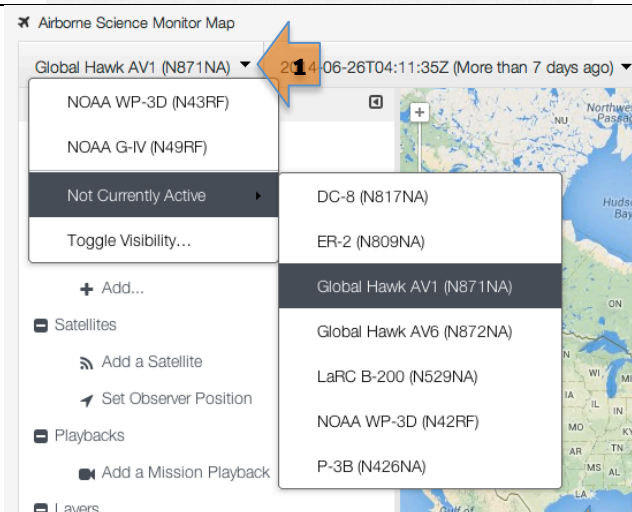
Map Adjustments

1. Click on the **negative sign** – to zoom out or drag the slider bar
 2. Click on the map, hold your cursor down and drag the map to move it
- If only a + and – sign show, click on the Settings gear icon ⚙ in the upper right and check the box for **Show the extended zoom controls on the map**

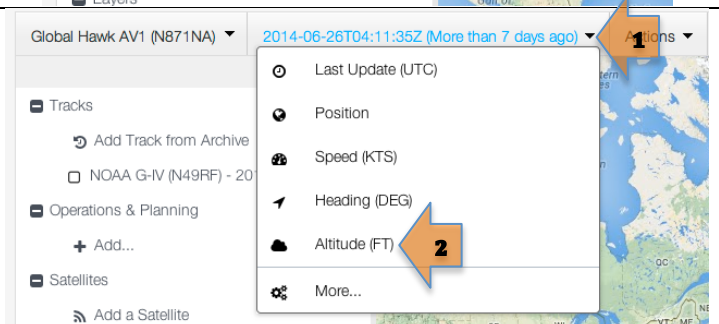


Re-center map on an aircraft

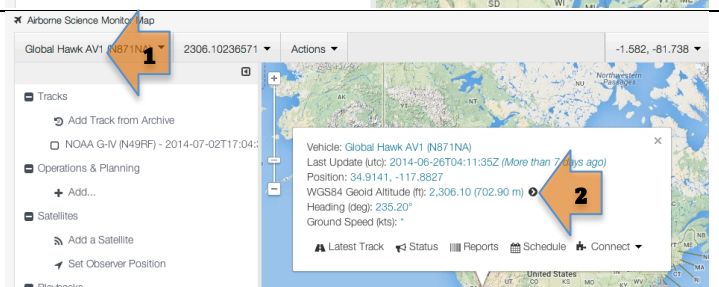
1. Click on the **aircraft name** in the status area (upper left of the map)
- Selecting an aircraft here will show various status information.
- If the plane is not flying, it will show in **Not Currently Active**



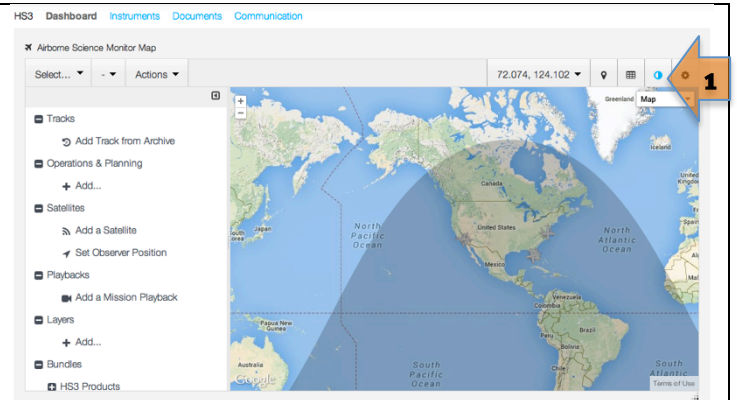
- Displayed is the date and time of the information
1. Click on the **arrow** to change to other information to display in the status area
 2. Select **Altitude**



1. Click on the **aircraft name** in the status area to display more details (or click on **More** on the previous screen)
2. Click on the arrow at the end of the Altitude to adjust the type to display between Pressure Altitude, Radar Altitude, GPS MSL Altitude, and WGS84 Geoid Altitude

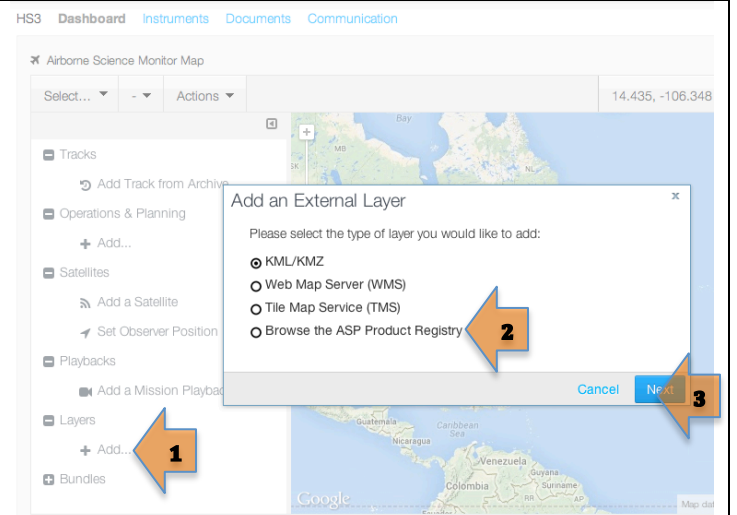


1. Toggle the Night/Day Icon to display which parts of the world are under cover of night



Add an Overlay

1. Click on the +Add in the Layers section of the index
2. Select **Browse the ASP Product Registry**
3. Click Next



4. Click **Browse by Region**

Product Registry

Use the Registry to locate and browse data products that can be added to

Search

Search

Browse

Browse by Organization

Browse by Product Category

Browse by Tag

Browse by Region

Browse by Satellite

Browse by Instrument

5. Check **West Atlantic Ocean**
6. Click the **Next** button

Product Registry

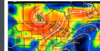
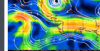
Please select from the following list:

☐ Alaska	☐ Caribbean
☐ Hawaii	☐ Puerto Rico
☐ Northern Atlantic Ocean	☒ West Atlantic Ocean
☐ Eastern Pacific Ocean	☐ Western Pacific Ocean
☐ Australia	☐ Atlantic Ocean
☐ Gulf of Mexico	☐ Caribbean Sea
☐ Southcentral United States	☐ Mid Atlantic United States
☐ Bermuda	☐ Azores

7. Click the **Add** button
8. Click **Back** to return to the Product Registry
9. Click **Close** to return back to the Map

Product Registry

The search returned 6 results.

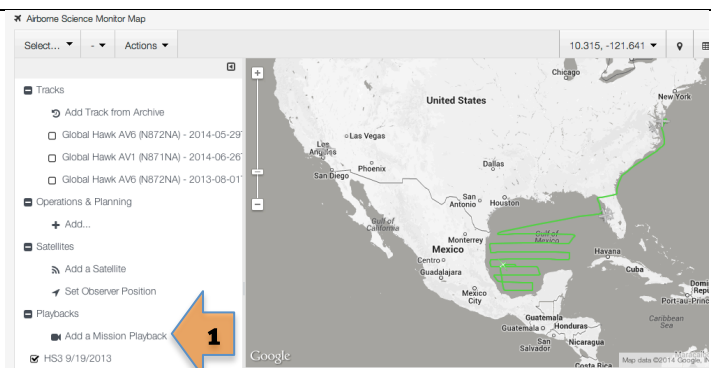
Result	Preview
African Atlantic Ocean West Steering Layer Mean Wind Analysis 700-850mb Description: Steering Layer 700-850mb - West Atlantic Data Product from CIMSS Tropical Cyclone Team. Organizations: Cooperative Institute for Meteorological Satellite Studies, CIMSS, University of Wisconsin-Madison Tags: Winds, Deep Layer Mean Analysis, DLM Regions: Northern Atlantic Ocean, West Atlantic Ocean Categories: Winds Latency (min):	 Add
African Atlantic Ocean West Steering Layer Mean Wind Analysis 500-850mb Description: Steering Layer 500-850mb - West Atlantic Data Product from CIMSS Tropical Cyclone Team. Organizations: Cooperative Institute for Meteorological Satellite Studies, CIMSS, University of Wisconsin-Madison Tags: Winds, Deep Layer Mean Analysis, DLM Regions: Northern Atlantic Ocean, West Atlantic Ocean Categories: Winds Latency (min):	 Add

- 10. Check or Uncheck to control if you want the layer to show on the map
 - To remove the image from the index, hover over text in the index until arrow pull-down appears and select delete if you find it is not useful
- Contact ESPO if there are layers helpful to include as part of the HS3 Configuration for all HS3 team members to see.

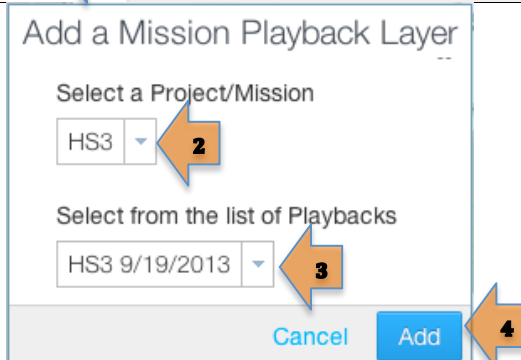
The screenshot shows the ArcGIS Desktop interface with the 'Add to Map' dialog box open. The 'Layers' tab is selected, and the 'Add a layer from the ArcGIS Product Registry' option is highlighted. A red box with the number '10' is overlaid on the dialog box. The background map shows a satellite view of a coastal area with a red outline indicating the study area.

1. Click on any plane icon to view latest info
2. Click on **Latest Track**
 - Planes are grey when not active and green when active

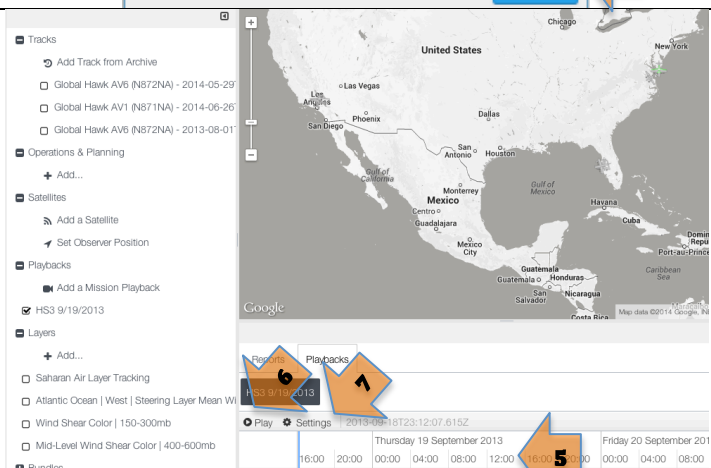
- You can play looping layers with controls to Play and Stop an animated layer.
1. Click on **Add a Mission Playback**



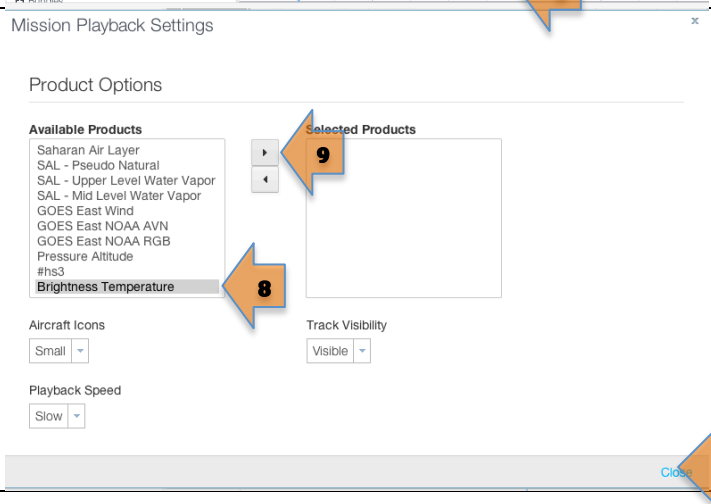
2. Select **HS3** in the Project/Mission pulldown
3. Select **HS3 9/19/2013** from the list of playbacks available
4. Click on the **Add** button



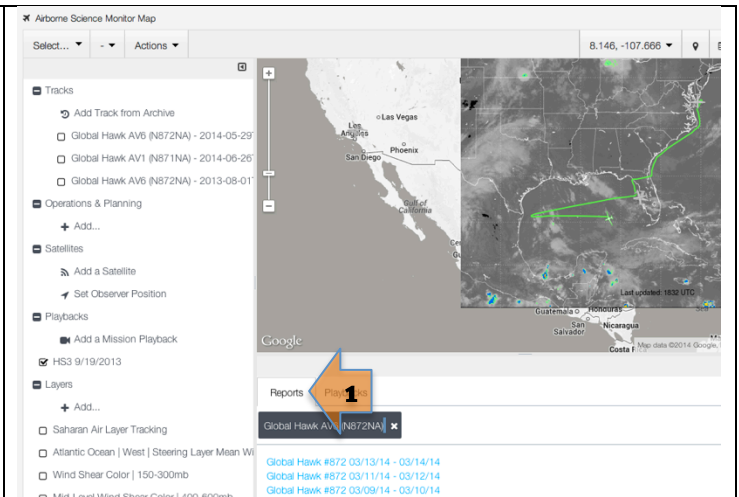
5. Click on 12:00 in the Thursday 19 September 2013 time ticker to go directly to a specific time
6. Click Play to watch the animation
7. Select Settings to add overlays available



8. Click on **Brightness Temperature** to highlight it
9. Click on the **right arrow** to select the overlay
10. Click on **Close** to return to the Map and see the overlay shown

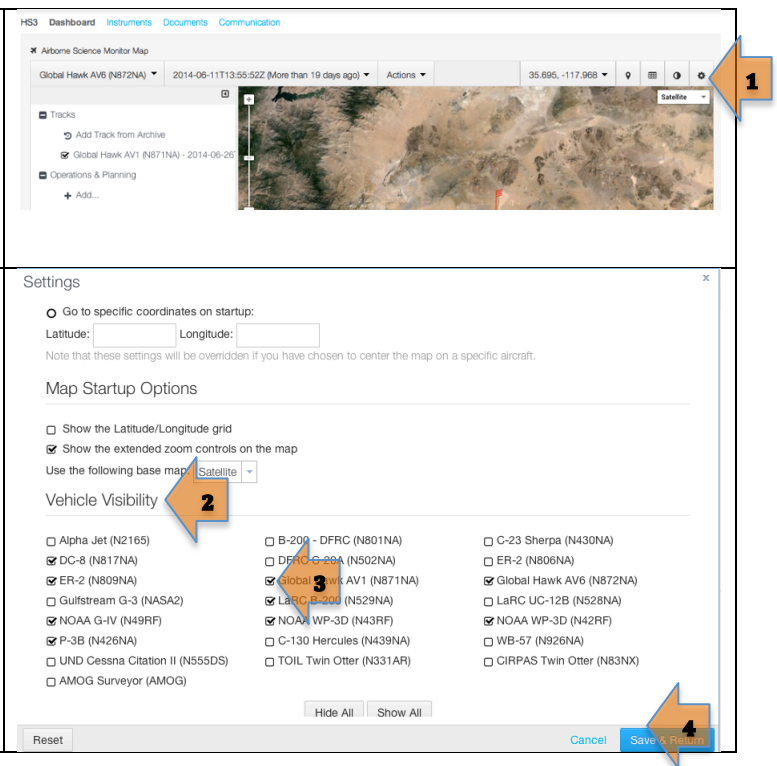


1. Click on the **Reports** tab
- Clicking on any of the missions highlighted in blue will launch a browser window right to the Flight Report



Add an Aircraft

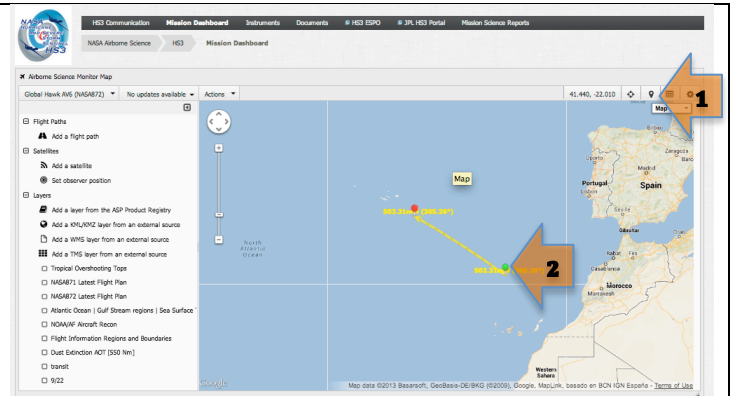
- This is useful to watch participating aircraft such as the DC8 and ER2 if they are participating for instrument comparisons.
1. Click on gear icon ⚙ in the upper right to access Settings



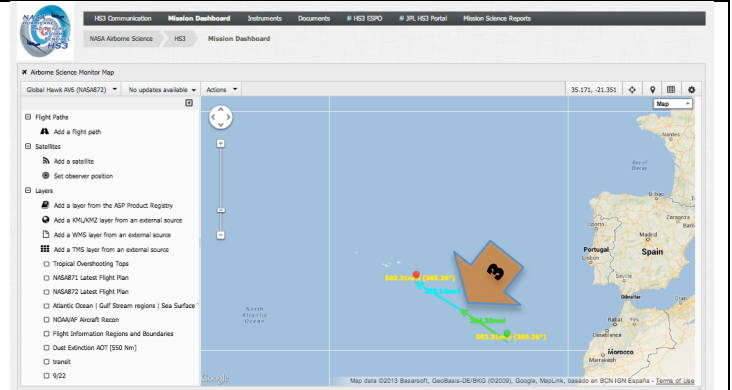
2. Scroll down to Vehicle Visibility
3. Check all applicable boxes
4. Click **Save & Return**

Measure a Distance

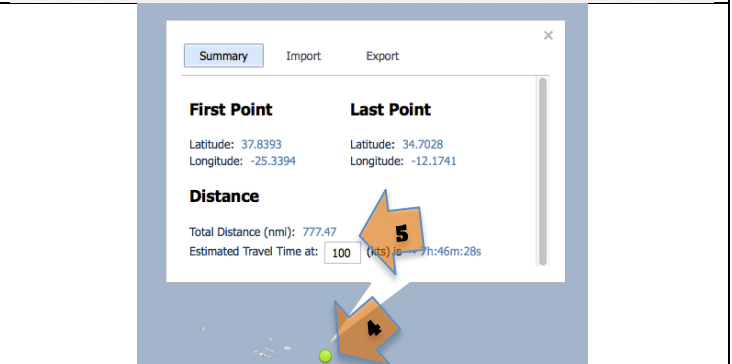
1. Click on the Bubble Icon and a green dot for the start and a red dot for the end will appear on the map along with the distance in nautical miles and the current heading.
2. Click and drag a dot till the X is on the point you want



3. Click on a position between the dots and the distances to that point are displayed



4. Click on a dot to view more detail information on Latitude and Longitude
 5. Enter speed in knots to get an estimate of the time needed to travel that segment
- There is a feature to import and export waypoints. Documentation on this feature will be posted on the MTS website soon.



Add a Segment to the Middle

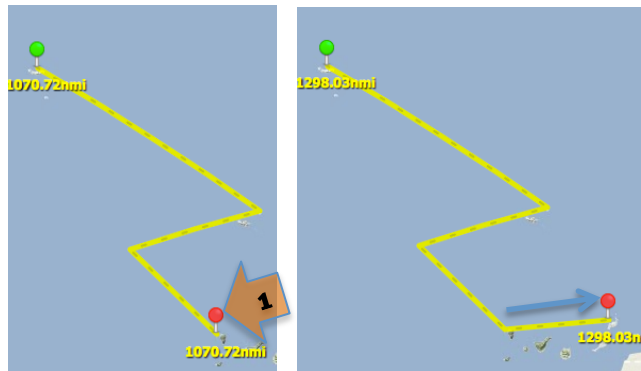
- Works with Safari and Firefox browsers but not Chrome)

 1. Hover on the line to see white control circles appear
 2. Drag one of the white circles to a new area to get additional segments to the line



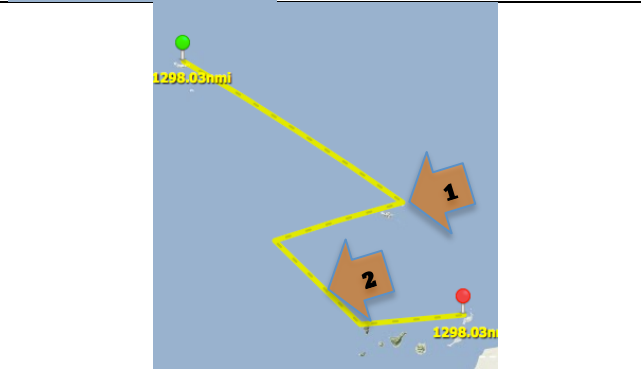
Add a Segment to the End

1. Hold the Shift key and drag an end point to get a new segment to appear



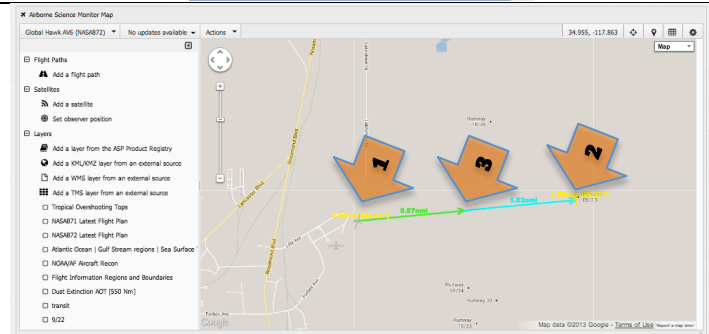
Remove a point or the whole line

1. Right-click on an point to remove the junction
2. Double-click on the line to remove the whole line



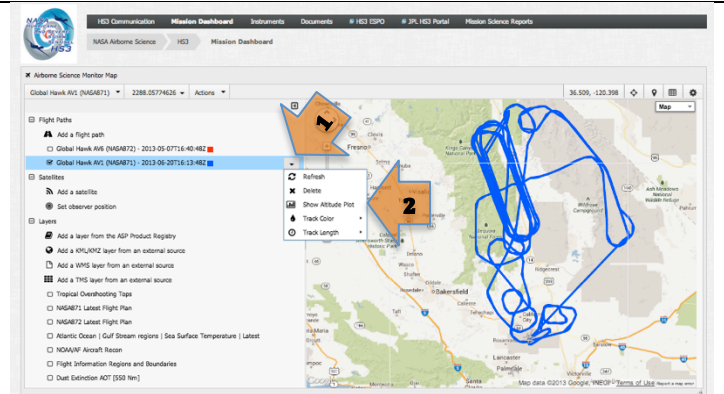
Measure Plane Movement

1. Click on a plane
 2. Drag to the position you want to measure and a line will appear with start and end points
- If there is a ground speed available, the estimated time to the destination end point will be calculated. May be helpful to know when Global Hawk will get to the end of the lawnmower pattern for example.

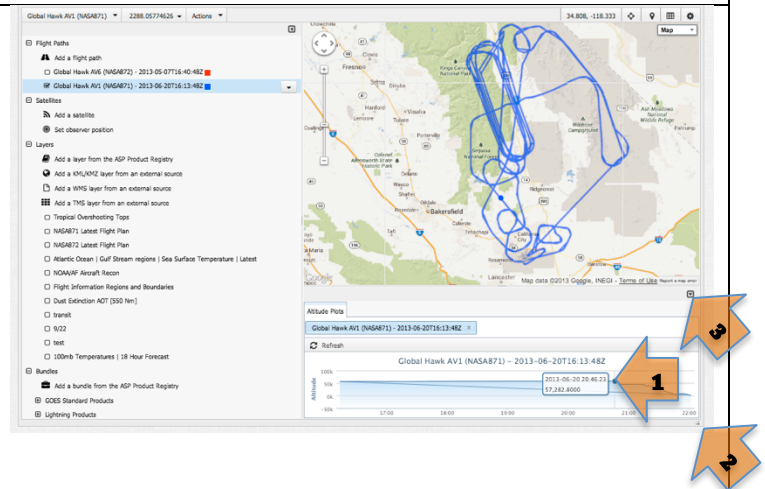


Show Altitude Plot

- Current Flight paths will appear in the Map for the planes of interest to HS3 (i.e. Global Hawk, ER2, DC8). In order to perform this step-by-step, you may need to Add an Aircraft (see above) and then Add Track from Archive
1. Click or hover on a flight path to view the pull down
 2. Click on **Show Altitude Plot**

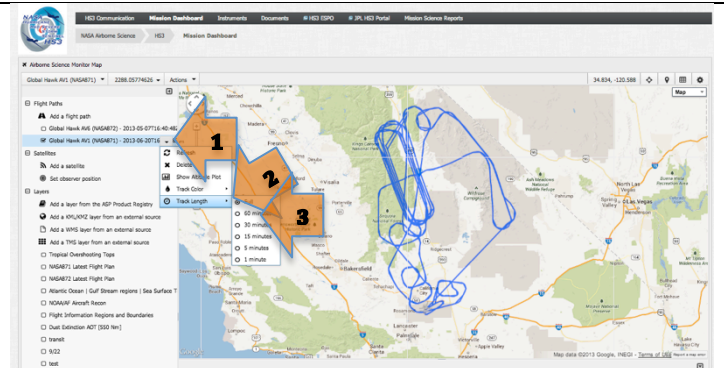


- The Altitude Plot will appear below the map
1. Click at a point in the Altitude Plot for detailed position and altitude information and you will also see a blue dot appear on the map that corresponds to where the plane was on the map
 2. You may have to drag the window open by clicking and holding the lower right corner of the map window to view more detail info in the Altitude Plot
 3. Or you may have to toggle the Altitude Plot expand icon
- Move your cursor along the Altitude Plot and watch the blue dot move along the flight path

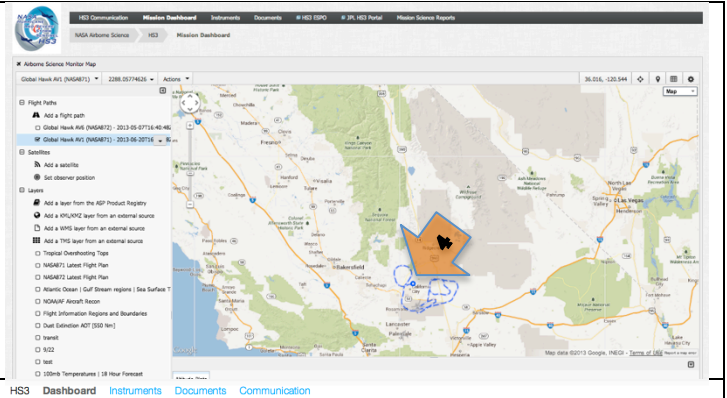


Show Track Length

- In order to isolate the most recent flight path from a lot of repeat tracks, you can limit the view to the last 60, 30, 15, 5 or 1 minute.
1. Click or hover on a flight path to view the pull down
 2. Click on **Track Length**
 3. Click on **60 minutes** and the displayed flight path will be reduced



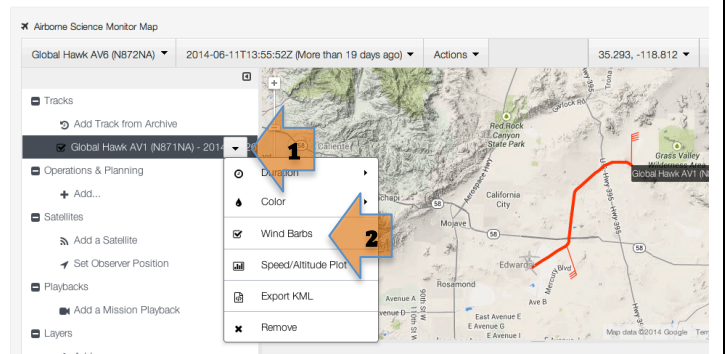
- Click on the blue dot to get perspective on the whole flight path.



Show Wind Barbs

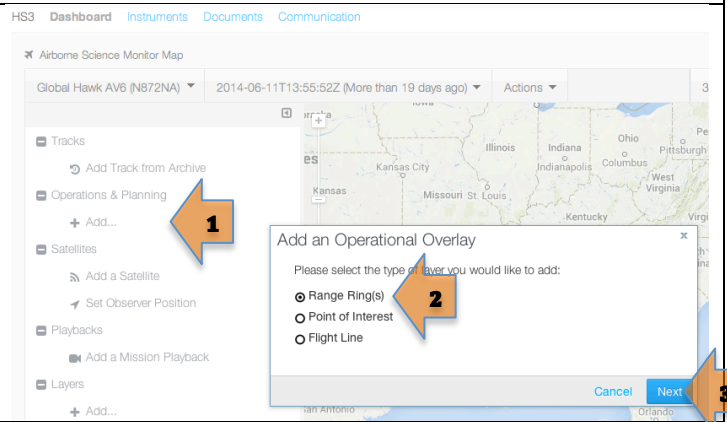
- Click or hover on a flight path to view the pull down
- Click on **Show Wind Barbs**
 - The longest line, the shaft, indicates wind direction. At the end of the shaft, are barbs and pennants. A small barb represents 5 kts, a long barb represents 10 kts, and flags (or pennants) represent 50 kts. You sum them up to get the wind speed. Here is a great table with images and better descriptions.

http://www.srh.weather.gov/jetstream/synoptic/sfc_plot_symbols.htm#ddff



Add an Operational Overlay

- Click on **+Add** in the Operations & Planning section of the index
- Click on the **Range Ring(s)** radio button
- Click on **Next**



4. Click on **Aircraft** radio button
5. Select the **Global Hawk AV1**
6. Enter **10,20,30** as the rings to show
7. Click on the **Add** button

Add Range Ring(s)

Target

☐ Lookup ☐ Enter Coordinates ☒ Aircraft

Global Hawk AV1 (N871NA)

Define Ring(s)

☒ Nautical Miles (nmi) ☐ Kilometers (km)

10,20,30

Create multiple rings by separating values with a comma (e.g., 50, 100)

Label (optional)

Cancel

Add

➤ The rings appear on the map

1. Hover in the index on the Rings that were just added till the pulldown arrow appears
- This is where line color and filling in of the rings can be customized as well as showing radials.
- If a range ring is put on a moving aircraft, it will move with it.

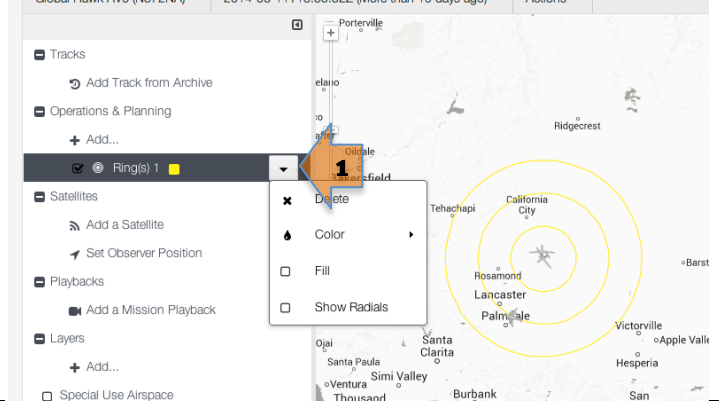
HS3 Dashboard Instruments Documents Communication

Airborne Science Monitor Map

Global Hawk AV6 (N872NA)

2014-06-11T13:55:52Z (More than 19 days ago)

Actions



- Additional Operations & Planning options include Points of Interest like Airports or any coordinates and label you want to enter or features to add a flight line

Add an Operational Overlay

Please select the type of layer you would like to add:

- ☐ Range Ring(s)
☒ Point of Interest
☐ Flight Line

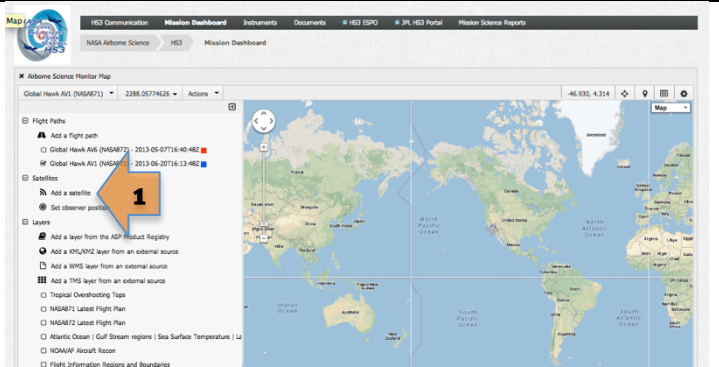
Cancel

Next

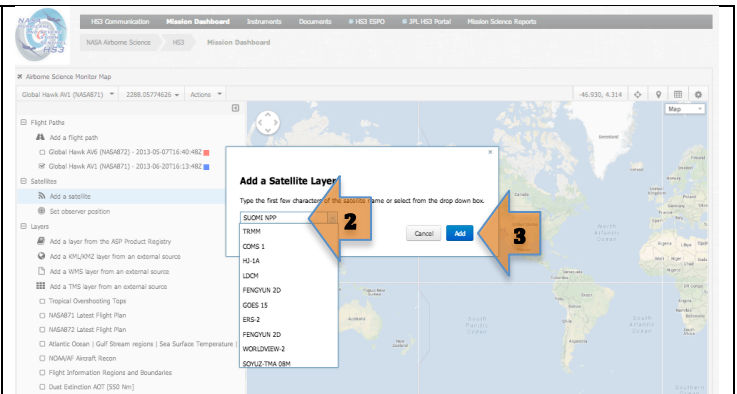
Add a Satellite

- On some missions there is a need to monitor the position of an aircraft with a passing satellite. Additional documentation on this feature will soon be posted on the MTS website.

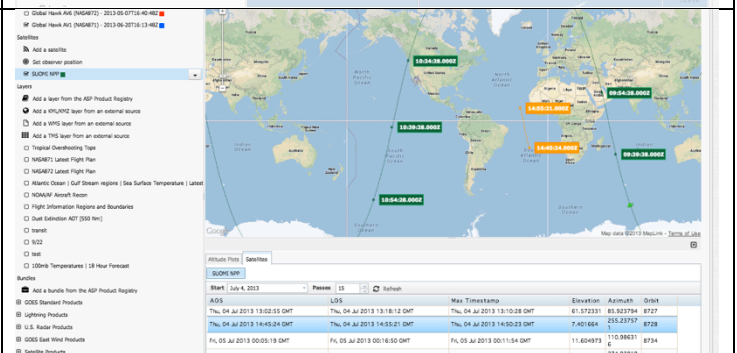
1. Click on **Add a satellite**



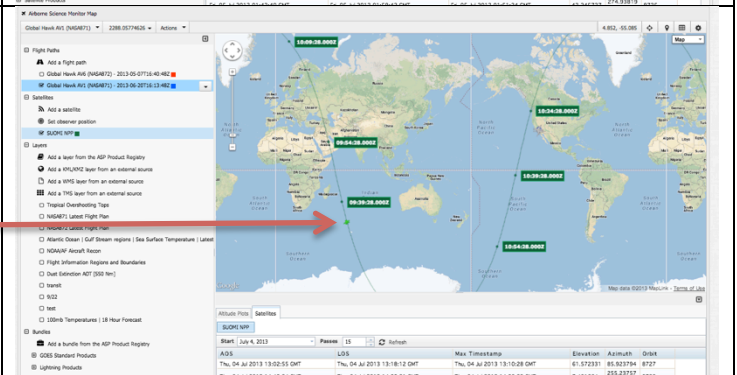
2. Scroll to select a satellite or for example, type in **SUOMI NPP**
3. Click **Add**



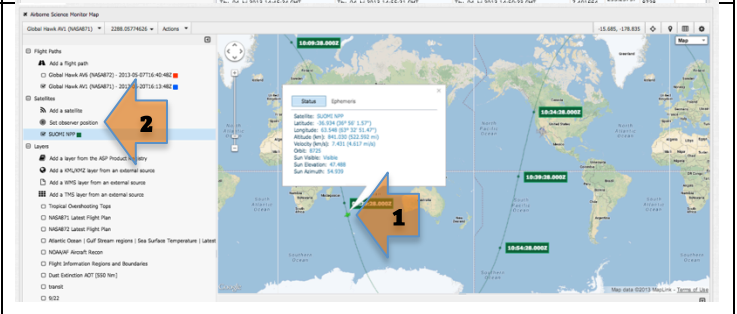
- The orbital path will appear on the map and below is a table with Acquisition Of Signal, Loss Of Signal, time stamp, elevation, Azimuth and Orbit
- Hover in the table to display the location in the map



- If you zoom out enough or move the map around, you will be able to see the green satellite icon to show where it currently is located.

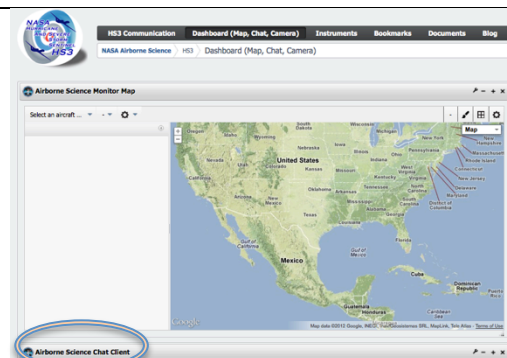


1. You can click on the green satellite icon for more information updated every second such as latitude, longitude, velocity, and TLE ephemeris data.
2. In order to compare the satellite to where an aircraft is or where you may be, you can Set the Observer Position

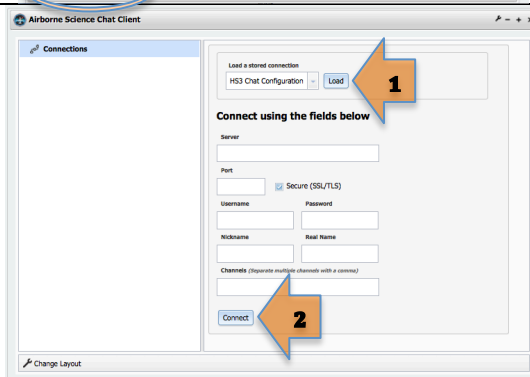


Chat

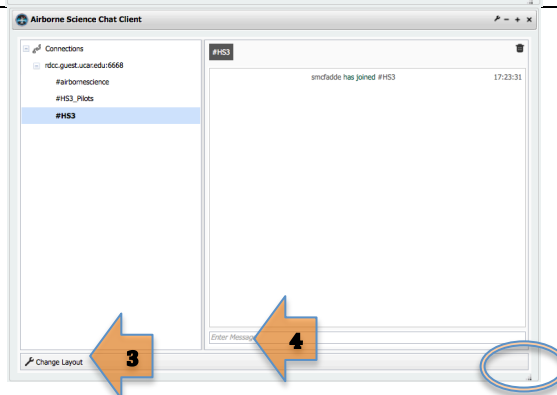
- Below the Map is the Chat Client for group and private chats
- When you log into MTS, you will be able to see chat history (24-36 hours) and catch up on what has been happening.



1. Click on **Load** to prepopulate the fields with your default info
2. Click on **Connect** to join the HS3 chat channel

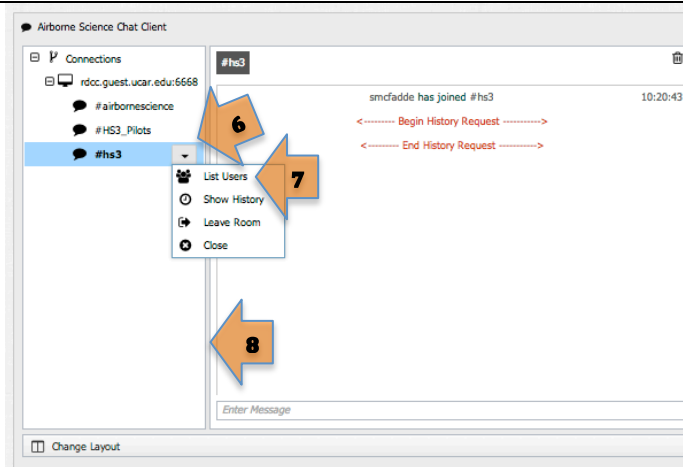


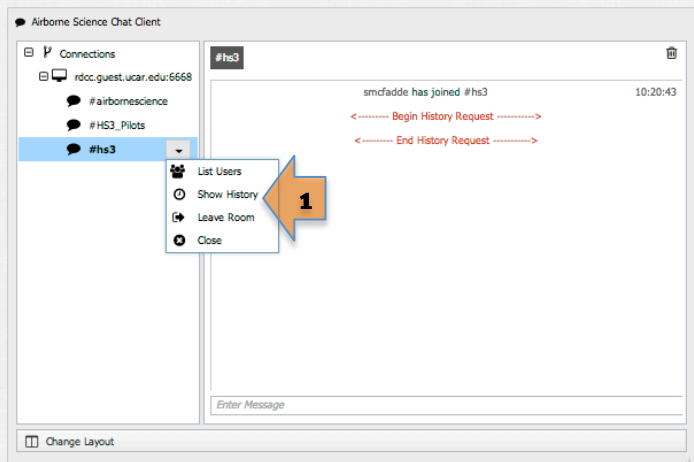
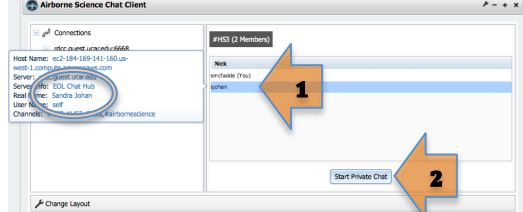
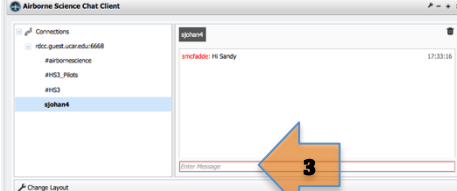
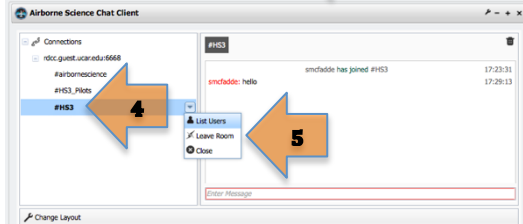
3. Click on **Change Layout** to cycle between the different views
4. Type **hello** and hit enter
5. Change the size of the Chat Window by clicking on the bottom right corner till the dragging icon appears and click and hold until to the size you want.



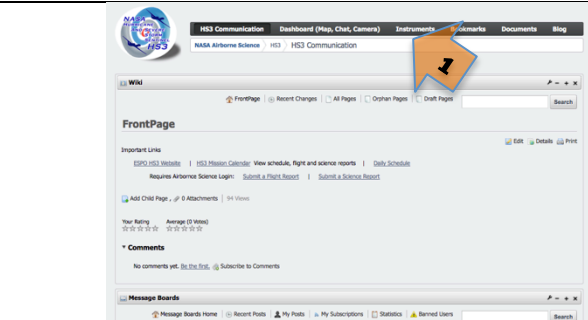
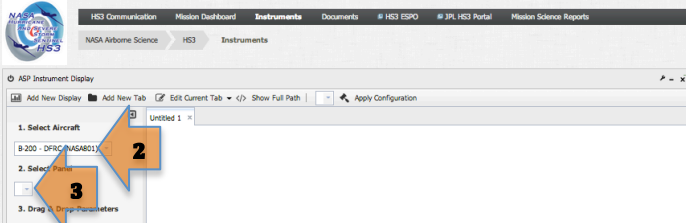
- You can resize many of the other tools like the Monitor by dragging the bottom right corner or by putting your cursor on the line between windows.

6. Hover on the name of the chat channel
7. Click on **List Users**
8. If you do not see the down arrow, you may need to adjust the width of the windows. Put your cursor on the line between the windows until the resize icon appears and drag to make the index area larger.

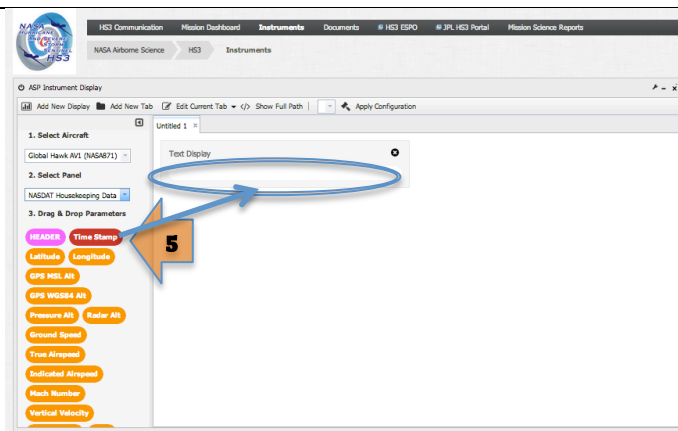


Click on Show History to see 24-36 hours of chat before you logged back in ➤ The chat client is on the same tab as the Mission Dashboard Map so when you are looking at the map any new chats will pop up for a few seconds in the lower right so you won't miss any chats.	
- Double-Click on a userid and their real name will be displayed - Click on Start Private Chat	
Type hello and hit enter	
- Hover on the name of the chat channel or private chat - Click on Leave Room	

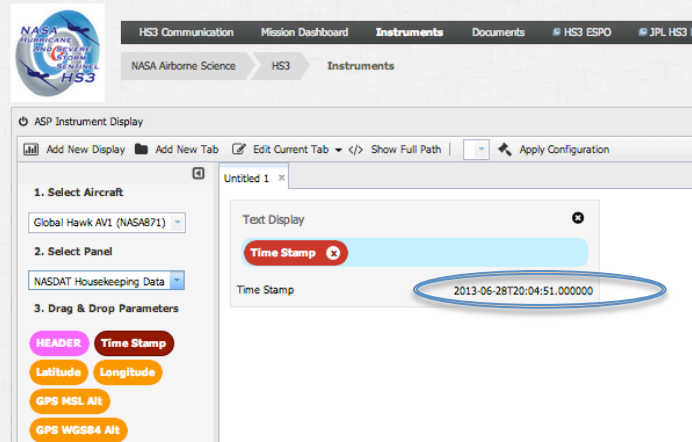
Instruments Tab

Instruments Click on the tab for Instrument	
- Click pull down for Select Aircraft and choose Global Hawk AV1 - Click pull down for Select Panel and choose NASDAT Housekeeping Data	

4. Drag Time Stamp to area circled. This area will highlight in blue when your cursor hovers over it.

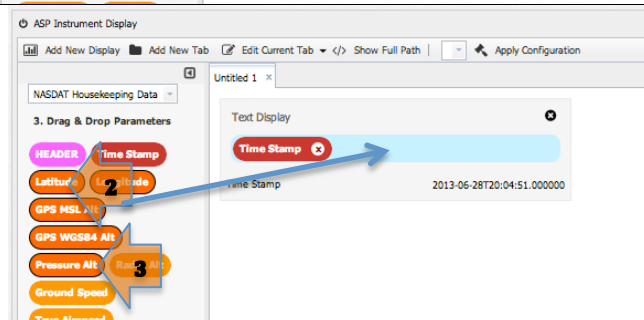


- You will see the value of the parameter displayed in the text display.



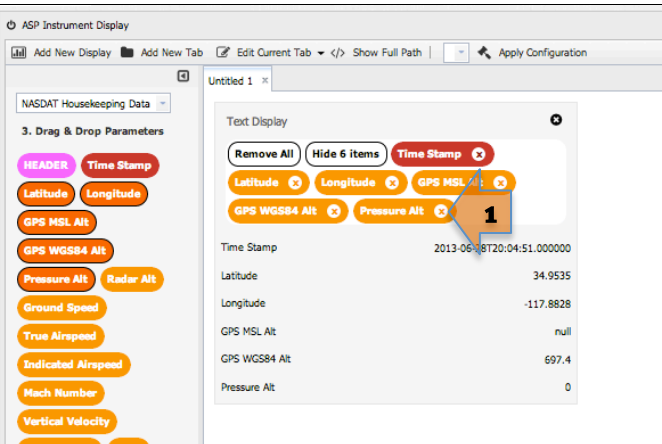
To add a group of parameters:

1. Click on Latitude
 2. Hold down your **shift** key
 3. Click on Pressure Alt to select all parameters in between
 4. Drag all 5 to blue plot area
- To add selected parameters: Click on a parameter, hold down your **command** key, click on additional parameters and they will highlight. You can then drag the selected items to the blue plot area.



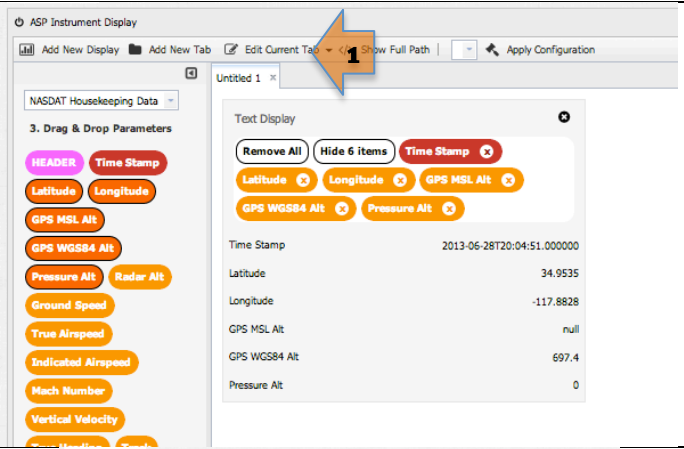
To remove a parameter

1. Click on the x by the parameter name
- If the parameter names do not show up, click on **Show Items**

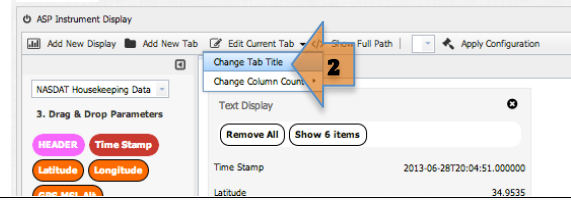


To change the title for the display

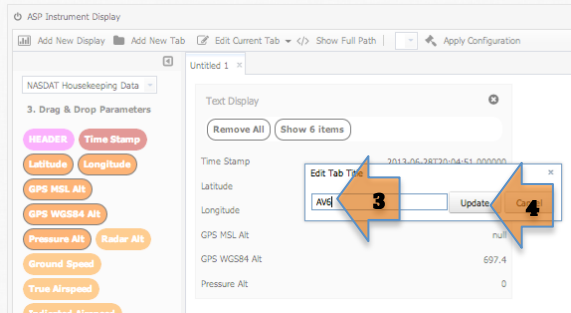
1. Click on **Edit Current Tab**



2. Select **Change Tab Title**

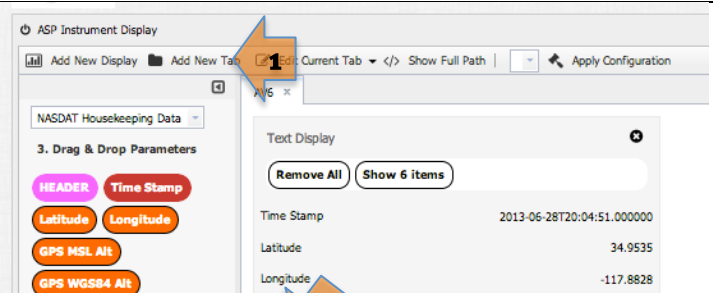


3. Type in **AV6**
4. Click on **Update**

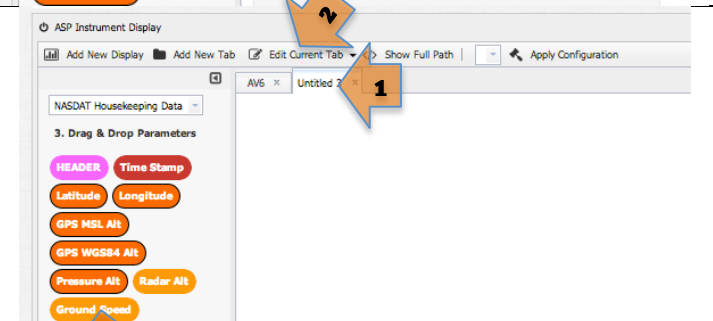


Add a new tab

1. Click **Add New Tab**

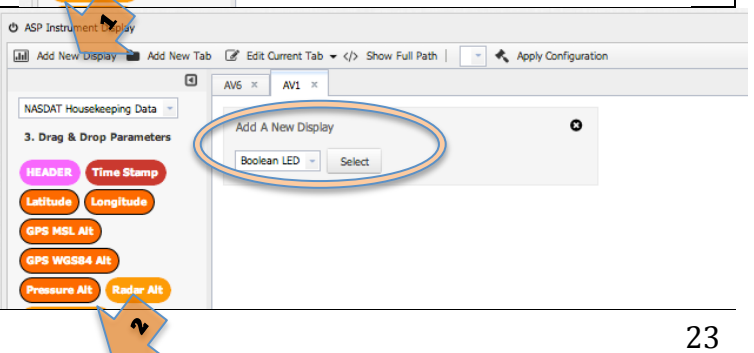


1. Click on the new tab
2. Edit Current tab and rename to AV1

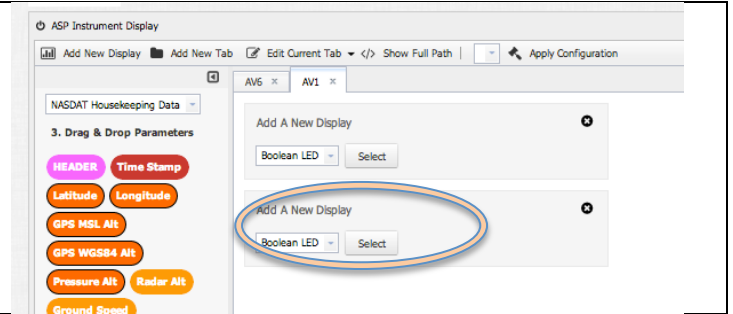


Formating the display

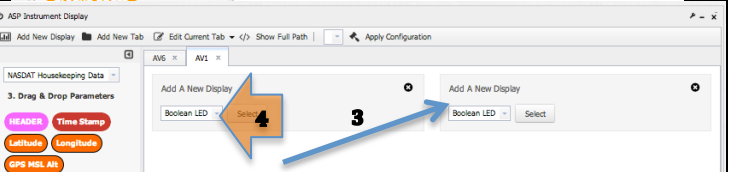
1. Click **Add New Display**



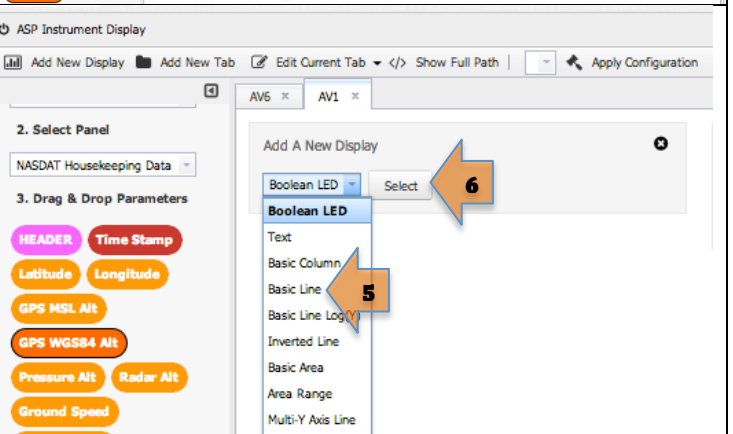
2. Click Add New Display again and a second display will appear



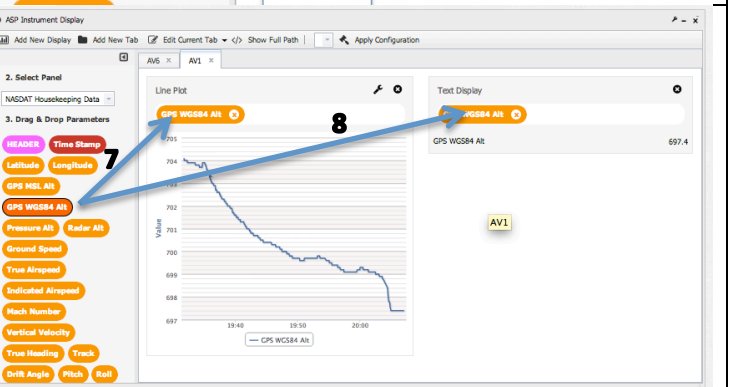
3. Drag the new display window from below to the side
4. Select the pulldown for the type of display



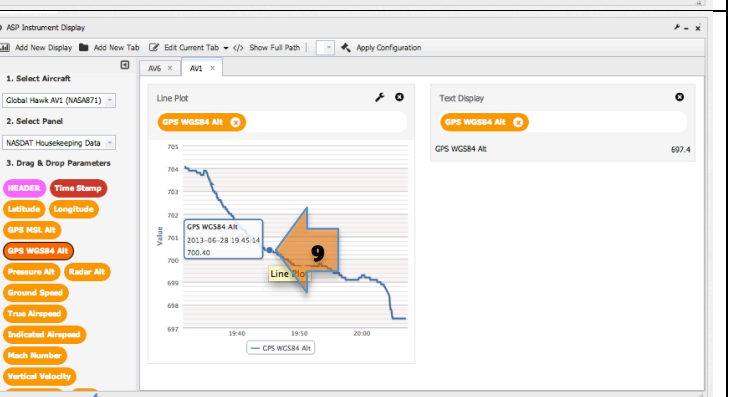
5. Select **Basic Line**
6. Click on **Select**



7. Drag **GPS WGS84 Alt** to the Line Plot blue plot area for a line chart
8. Drag **GPS WGS84 Alt** to the Text Display blue plot area which will show the current Altitude

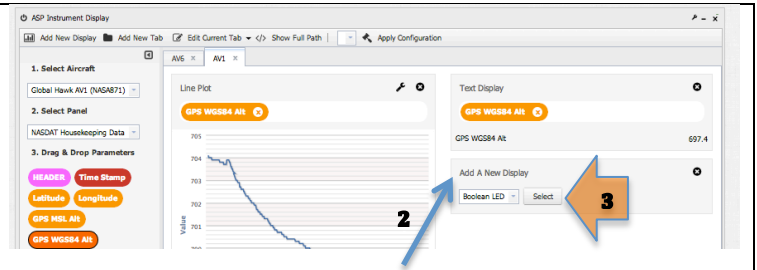


9. Position your cursor anywhere on the line graph to display the pop up with more details

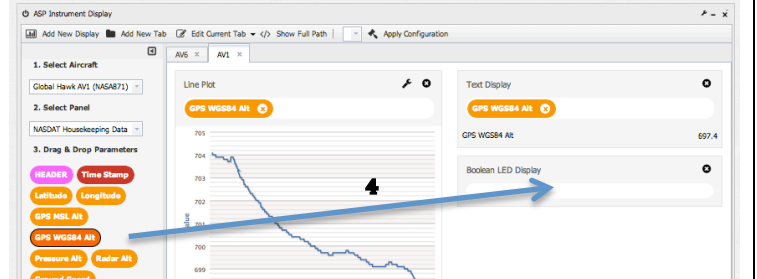


Adding an indicator

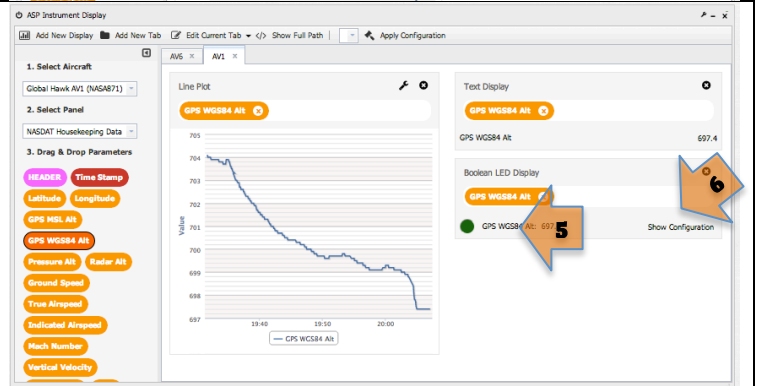
1. Click on **Add New Display** (it will show up under the Line Plot in the first column)
2. Drag to under the Text Display in the second column
3. Click **Select** for Boolean LED as the type of display



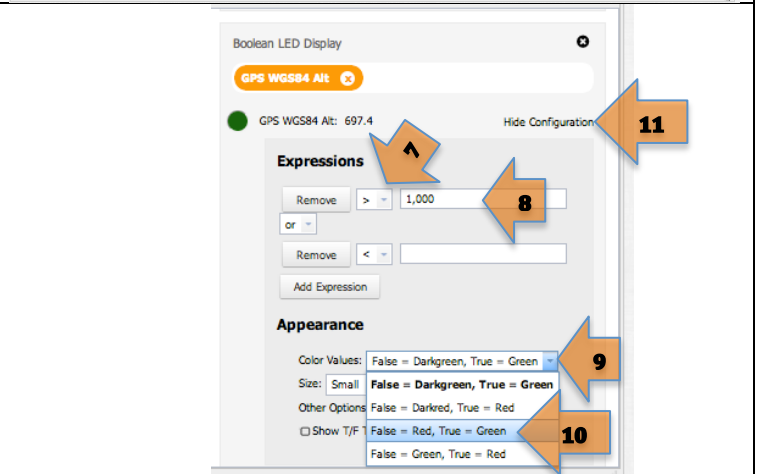
4. Drag **GPS WGS84 Alt** to the Boolean LED Display blue plot area



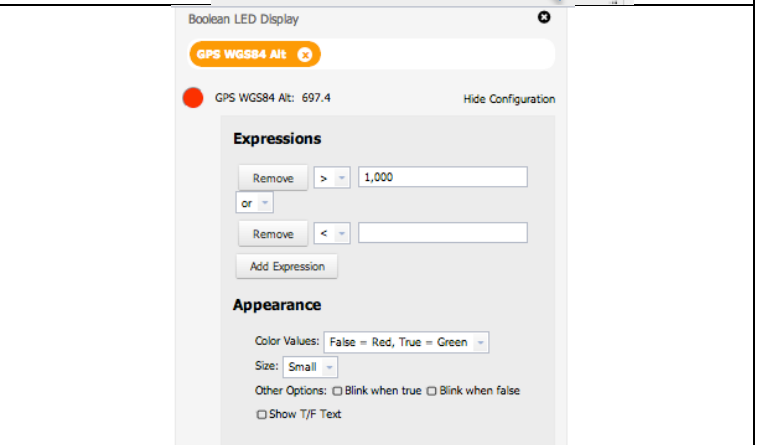
5. Click on the **parameter** in the Boolean LED Display and Show Configuration will appear
6. Click on **Show Configuration**



7. Select the pulldown for the sign and choose greater than >
8. Type in **1000**
9. Select the pulldown for color values
10. Select **False=Red, True=Green**
11. Click on **Hide Configuration**



- Add as many parameters and expressions as you like for your dashboard view
 - For example greater than 1000 but less than 20000
- Select Size of **Medium** or Large for critical parameters
- Select **Blink when True** for critical parameters
- Select checkbox for **T/F Text** if colors are not easily discernable

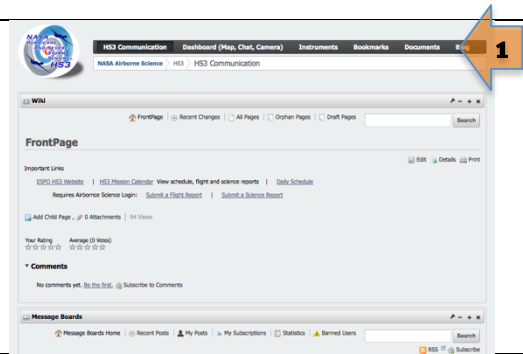


➤ Experiment with the different display types. For example, Circular Gauge provides a nice graphic or Multi-Axis Line Plot to plot more than one parameter. ➤ If there are layouts, parameters, expressions that would be useful to all, let ESPO know and we can define an HS3 configuration to share with all.	
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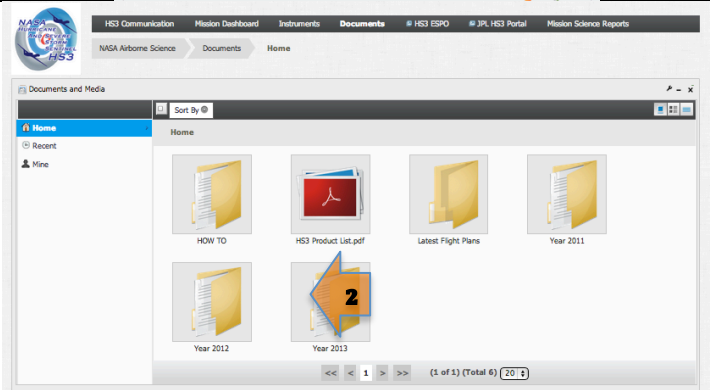
Documents Tab

Mission Files are stored in Documents

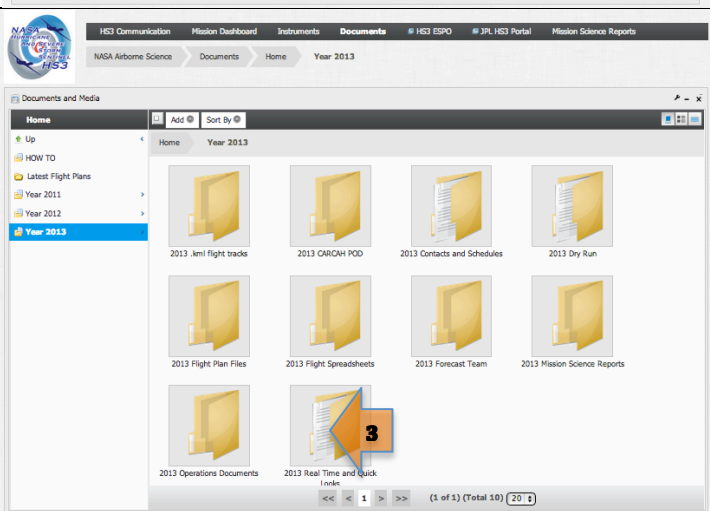
1. Click on the tab for **Documents**



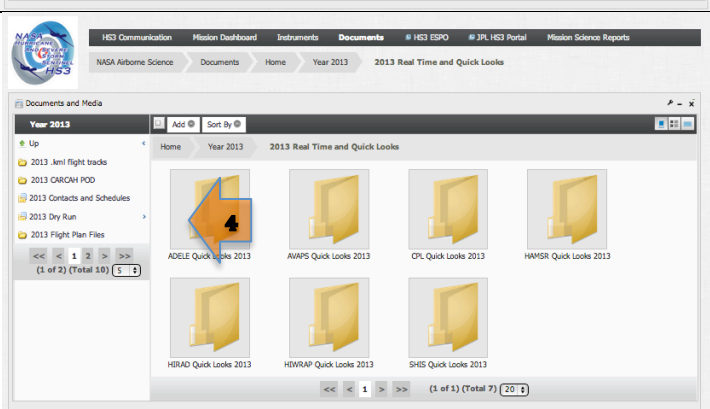
2. Click on **Year 2014**



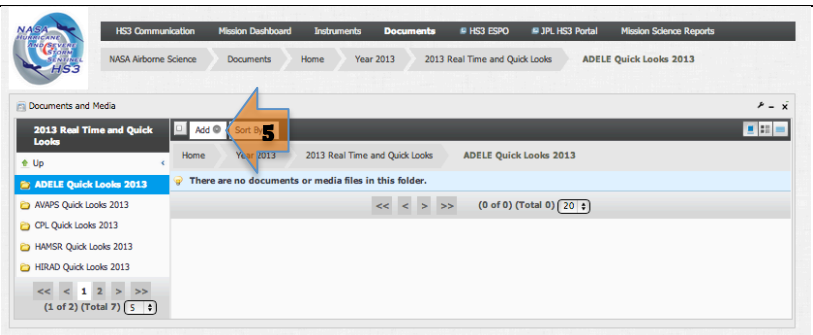
3. Click on the **2014 Real Time and Quick Links**. (You may have to click to the 2nd page or Next). This is where you can store screen shots from the MTS Instrument tab.



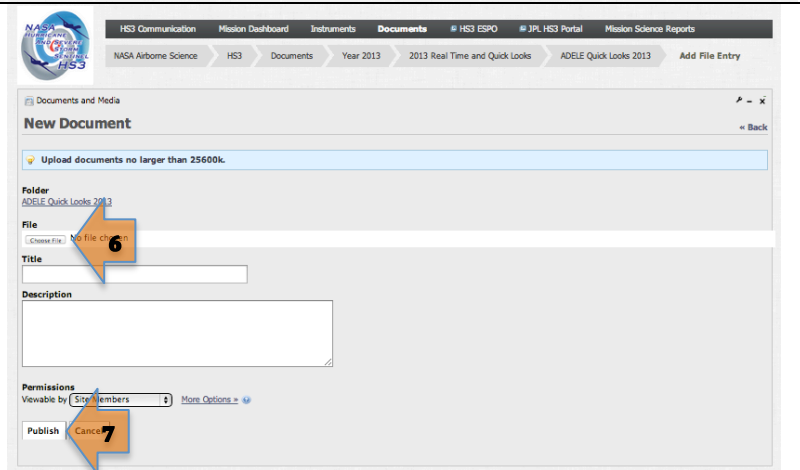
4. Click on **ADELE Quick Looks 2013**



5. Click the **Add** button and select **Basic Document** to add a file



6. Click **Choose File** and navigate to the file on your computer and select it.
7. Click Publish to upload the file to MTS



HS3 Communications Tab - Wiki

Find Important Info on Wiki

- The Communication Tab, is for sharing information like announcements and important links. When you launch the HS3 Workspace in MTS, you'll be able to read about the current status and get to important links such as the ESPO website, daily schedule and calendar.

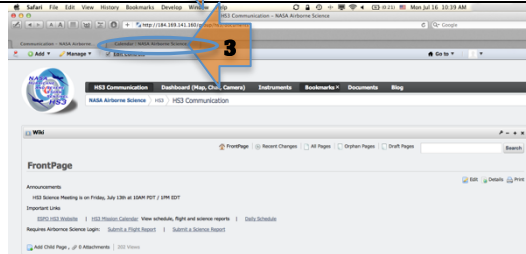
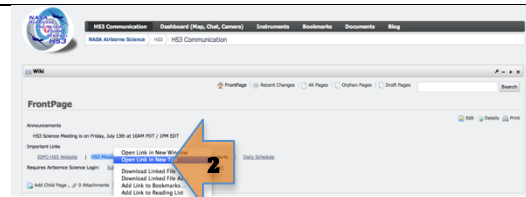
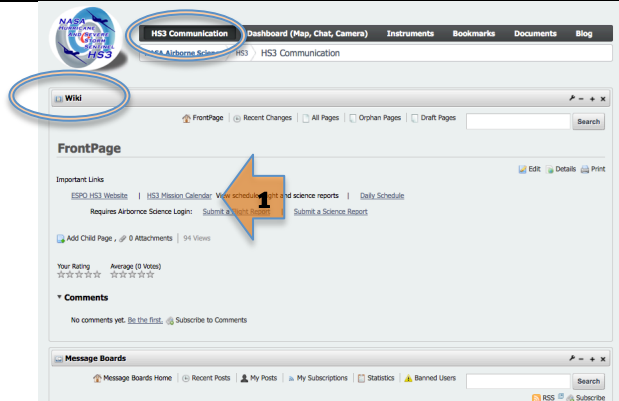
1. Right-click **ESPO HS3 Mission Calendar** (or Control-click for Mac)

- If you don't right-click, the default is to replace your MTS browser session.

2. Select **Open Link in New Tab** (or open in New Window or whatever choice your browser provides)

3. Click on the new Tab

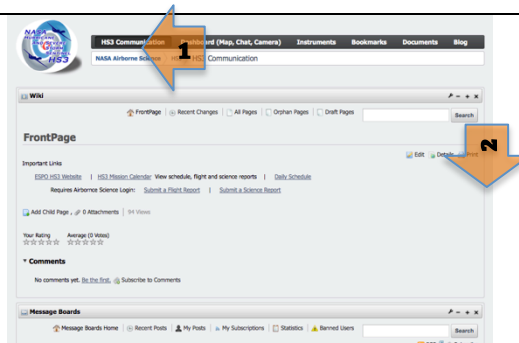
- It is recommended to keep these two tabs/windows open so you can easily switch between MTS and the ESPO Calendar (for updated schedules and links to filed flight and science reports)



HS3 Communications Tab - Bookmarks

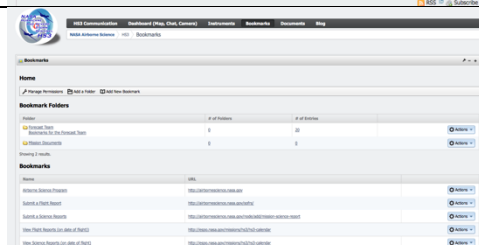
Bookmarks

1. Click on the tab for **Communications**
2. Scroll down past the Wiki and Blog section until you see the Bookmark section



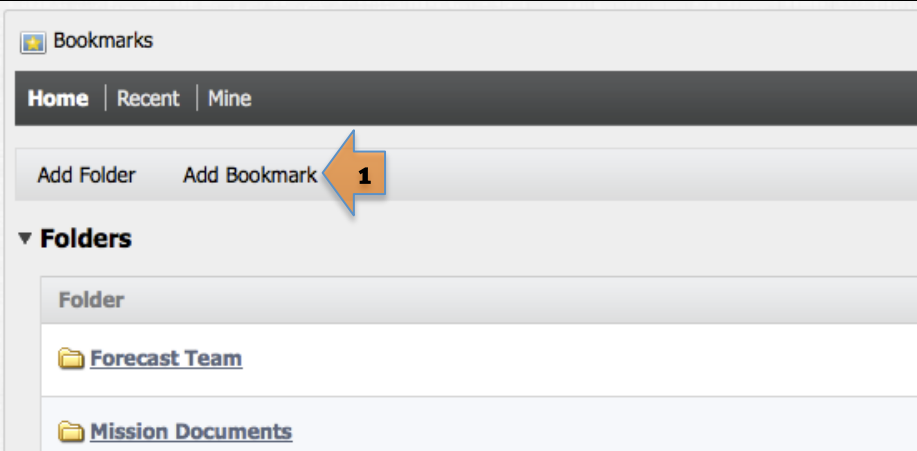
1. Right-click (or Control-click for Mac) on a link to open in another browser tab or window and keep Mission Tools Suite open.

➤ Or click on a link (which will replace your current browser)

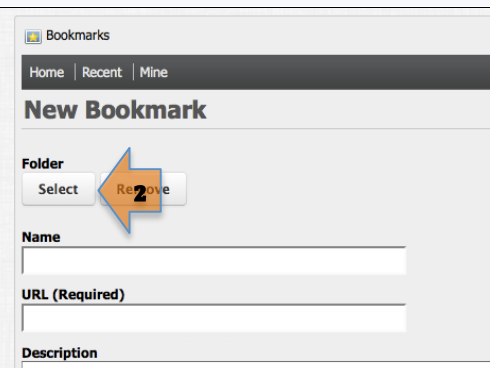


Add a Link for a Quick-Look Image

1. Share a link by clicking on **Add Bookmark**
 - You may have to scroll down to the bookmark section whenever the screen refreshes



2. Click on **Select** to select which folder to put the bookmark



3. Click Real-time and Quick-looks Links	Home Add Folder Choose This Folder <table> <thead> <tr> <th>Folder</th><th># of Folders</th></tr> </thead> <tbody> <tr> <td>Forecast Team</td><td>6</td></tr> <tr> <td>Mission Documents</td><td>0</td></tr> <tr> <td>Real-time and Quick-look Links</td><td>0</td></tr> <tr> <td>WFF</td><td>0</td></tr> </tbody> </table>	Folder	# of Folders	Forecast Team	6	Mission Documents	0	Real-time and Quick-look Links	0	WFF	0
Folder	# of Folders										
Forecast Team	6										
Mission Documents	0										
Real-time and Quick-look Links	0										
WFF	0										
4. Click on Choose This Folder on the pop-up	Home Home Real-time and Quick-look Links Add Subfolder Choose This Folder										
5. Enter a name for the bookmark such as HAMSR Quick-looks 6. Enter the url for the location you will be storing your Real-time or Quick-look data (NOTE: If you do not have a place to store these, you can put them in a MTS folder and MTS provides a Get URL feature to copy the url that you can paste here.) 7. Click Save ➤ The default is viewable by HS3 members ➤ Add a description if needed	Bookmarks Home Recent Mine New Bookmark Folder Real-time and Quick-look Links Select Remove Name URL (Required) Description Permissions Viewable by Site Members More Options Save Cancel										