



# WildFireSA Advanced User Guide

November 12, 2025





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# Preface

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The *WildFireSA Advanced User Guide* provides instructions for using WildFireSA, a web-based application designed to support situational awareness and decision-making for wildland fire incidents. The guide includes step-by-step procedures, feature overviews, and guidelines to ensure consistent and effective application of the software's capabilities.

## Audience

This manual is intended for wildland fire agencies and other stakeholders involved in wildfire risk assessment, planning, and response. Users are expected to have a basic understanding of wildland fire reporting tools and decision-making frameworks to effectively utilize WildFireSA.

## Accessibility

The *WildFireSA Advanced User Guide* is developed in alignment with government accessibility standards, including Section 508 of the Rehabilitation Act and the Web Content Accessibility Guidelines (WCAG) 2.1.

## Additional Resources

For FAQs, videos, and training on WildFireSA, see: <https://egp.wildfire.gov/egp/help>



# Introduction

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WildFireSA Advanced is an integrated tactical and operational decision support tool used for wildland fires. WildFireSA Advanced combines a traditional "common operational picture" with collaborative mapping, geospatial and imagery analysis, and analytical reporting.

## Prerequisites

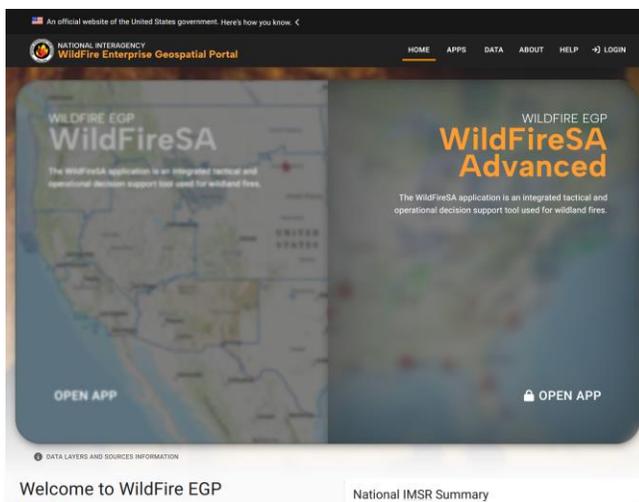
The following prerequisites are necessary to use WildFireSA Advanced:

1. **WildFire Enterprise Geospatial Portal (EGP) account.** Access to WildFireSA Advanced requires an active EGP account. If you do not have an EGP account, you can request one by following the steps outlined in the [EGP-FAMAuth User Guide](#):
2. **Web browser.** WildFireSA Advanced supports most modern browsers. Ensure your browser is up to date for optimal performance.
3. **Internet connection.** An internet connection is needed to access WildFireSA Advanced as well as update near real-time data.

## Accessing WildFireSA Advanced

To access WildFireSA Advanced:

1. Go to the EGP home page: <https://egp.wildfire.gov/egp/>
2. Select **WildFireSA Advanced** by clicking on the right side of the image.

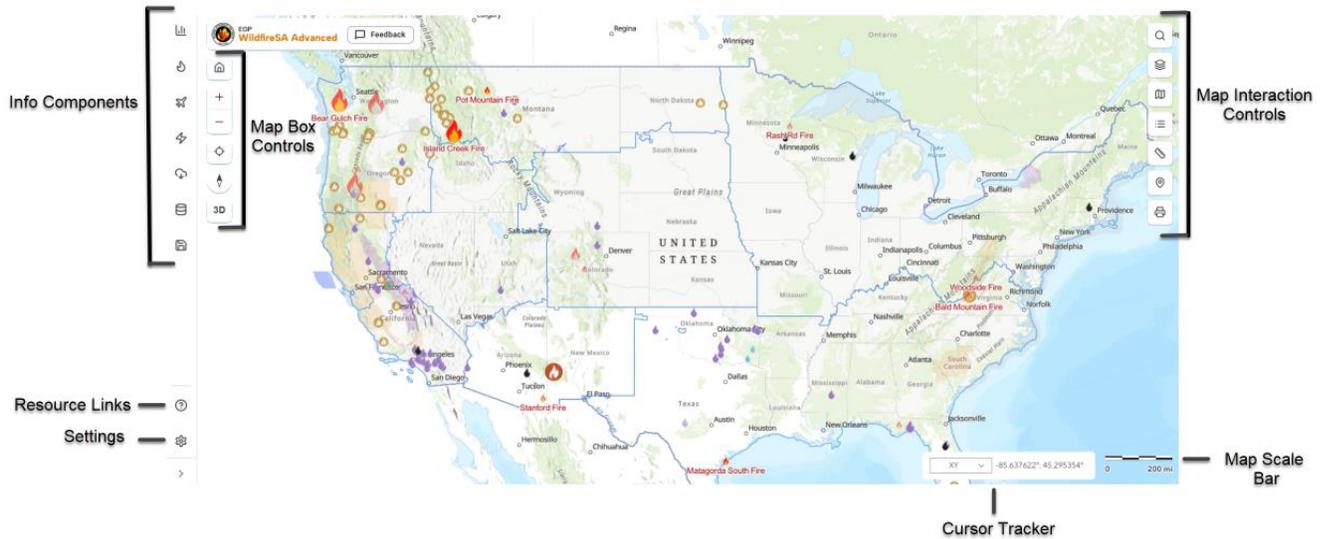




# WildFireSA Advanced User Interface

The WildFireSA Advanced user interface consists of seven main sections to help navigate the map and analyze incidents.

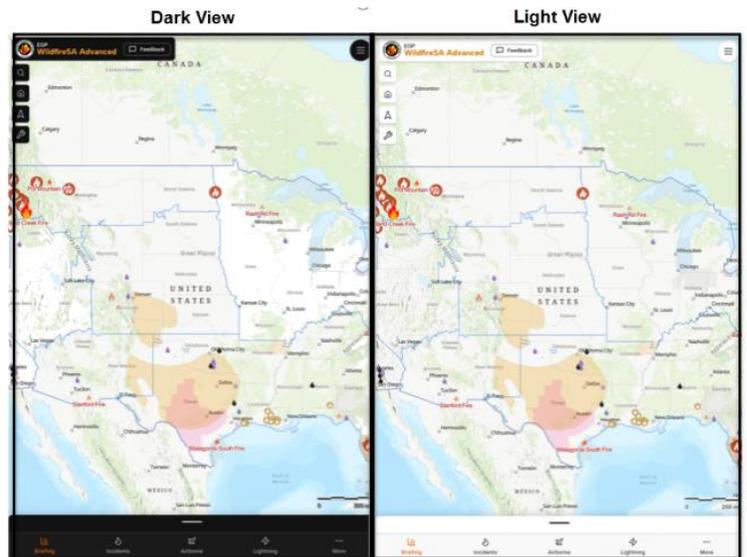
## Computer Interface View:



## Mobile Interface View



## Tablet Interface View





## User Interface sections:

- [Info Components](#)
- [Resource Links](#)
- [Settings](#)
- [Map Box Controls](#)
- [Map Interaction Tools](#)
- [Cursor Tracker](#)
- [Map Scale Bar](#)

## Info Components

The Info Components provide access to widgets as well as complementary resources to WildFireSA.

Icon	Description
 Briefing Metrics	The <b>Briefing Metrics</b> section displays active incident data from a national view and can be adjusted to view individual Geographic Area Coordination Center (GACC) boundaries. The section also allows you to view the Incident Management Situation Report (IMSR).
 Active Incidents	The <b>Active Incidents</b> section shows a list of all active incidents within the current map view. Selecting an active incident from the list shows the incident details and Airborne Intel.
 Airborne Missions	The <b>Airborne Missions</b> section displays all Airborne Missions, including missions that are not tied to incidents (new detections). Selecting a mission shows the mission's airborne intelligence, including videos  , images  , features  , and missions  .



Icon	Description
 Lightning Strikes	The <b>Lightning Strikes</b> Widget displays and exports strike counts for cloud-to-ground lightning strikes. The strike counts are shown in a histogram grouped by current strength (kA).
 ATU Download	The <b>ATU Download</b> feature allows you to choose an ATU Feature Layer for the current or previous year and export retardant drop features as a zip file.
 Add Data	The <b>Data Catalog</b> allows you to add layers into the <b>Layers</b> menu from EGP's data catalog, URLs, zipped shapefiles, or an ArcGIS Online account. To open the Data Widget, select the <b>Data Catalog</b> button from the left side bar.
 Map Presets	The <b>Map Presets</b> feature allows you to save up to five map presets.
 Resource Links	<ol style="list-style-type: none"><li><b>1. Help:</b><ul style="list-style-type: none"><li>• EGP Help Page — opens the EGP Help page in a new tab. The help page contains FAQs, training videos, and user guides.</li><li>• Release Notes — opens the WildFireSA release notes page.</li></ul></li><li><b>2. Additional Resources:</b><ul style="list-style-type: none"><li>• EGP Homepage</li><li>• Six Minutes for Safety — opens the National Wildfire Coordinating Group's (NWCG) Six Minute for Safety program webpage.</li><li>• SitReport — opens the Incident Management Situation Report.</li><li>• Weather — contains National weather and Fire weather links.</li><li>• Predictive Services — opens NIFC's predictive services webpage.</li><li>• WildWeb Resource Tracking — opens the WildCAD-E WildWeb Dispatch Center list.</li><li>• GACC Homepage — opens the GACC National Website Portal.</li></ul></li></ol>



 Settings	The Settings button allows you to switch from Dark, Light, and System Mode.
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## Map Box Controls and Interaction Tools

The Map Box Controls and Interaction Tools provide easy access to the most commonly used map features, such as adding layers and resetting the map view.

They consist of the following buttons:

-  **Home**—resets the map view to Default

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-  **Zoom in**—zooms in to the center of the map

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-  **Zoom out**—zooms out from the center of the map

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-  **Locate Me**—goes to your current location

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-  **Reset map orientation**—resets view North

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-  **Switch to 3D view** —switches the map between 3D and 2D

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-  **Search** - used to search for active fires or geographic locations. You can filter the search results by source using the **Search in** dropdown  .

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-  **Layers**—displays the Layers menu



-  **Select Basemap**—changes the basemap

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-  **Legend**—displays the Legend

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-  **Measure Tool**—measures a distance or area

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-  **Toggle Pin Drop Mode**—drops a shareable pin onto the map

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-  **Print** — Exports PDF

## Search Box

The map's Search Box is used to search for active fires or geographic locations. You can filter the search results by source using the **Search in** dropdown  .



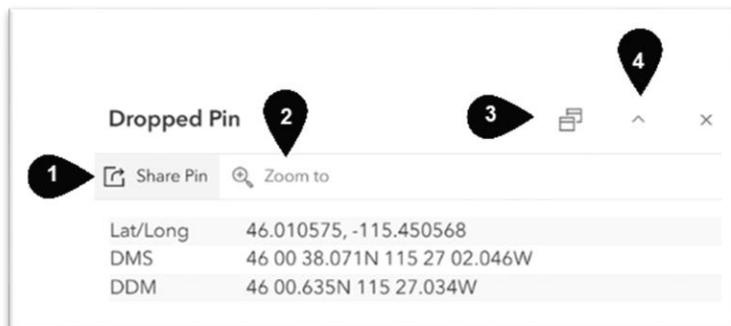


To search for a fire:

1. Enter the name of the fire.  
**Note:** Do not include the word “Fire” after the name of the fire.
2. Select the fire from the search results dropdown ▾.

## Pop-up

A Pop-up appears when a pin is dropped or a feature is selected. The Pop-up shows additional information for the selected feature or pin.



1. **Share Pin** — copies your current URL to the clipboard.
2. **Zoom to** — zooms to the Dropped Pin or the selected feature on the map.
3. **Dock** — moves the Pop-up box to the upper right corner.
4. **Collapse** — collapses the pop-up.

## Cursor Tracker

The cursor tracker is used to get the coordinates of the mouse position.





## Map Scale Bar

The scale of a map is the ratio of a distance on the map to the corresponding distance on the ground. The scale dynamically changes depending on your current zoom level.



## Navigation

You can navigate the map using the toolbar, mouse, keyboard, and touch gestures. To use keyboard inputs, the map must first be selected.

Navigation	Method
<p><b>Pan</b></p>	<p>To pan the map:</p> <ul style="list-style-type: none"> <li>• Click and drag the map</li> <li>• Tap and drag the map with one finger</li> <li>• Use the arrow keys</li> </ul>
<p><b>Zoom</b></p>	<p>To zoom in:</p> <ul style="list-style-type: none"> <li>• Use the <b>Zoom in</b> button </li> <li>• Double-click the map</li> <li>• Double-tap the map</li> <li>• Scroll the mouse wheel upward</li> <li>• Select the plus sign (+) on your keyboard</li> <li>• <b>Shift</b>+click and drag to draw a square over the area you want to zoom in on</li> <li>• Pinch outwards</li> </ul> <p>To zoom out:</p>



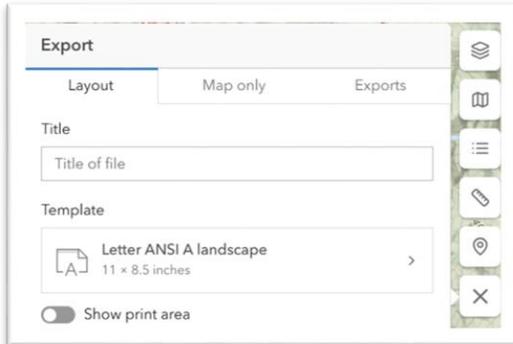
	<ul style="list-style-type: none"><li>• Use the <b>Zoom out</b> button </li><li>• Scroll the mouse wheel downward</li><li>• Select the minus sign (-) on your keyboard</li><li>• <b>Ctrl+Shift</b>+click and drag to draw a square over the area you want to zoom out of</li><li>• Pinch inwards</li></ul>
<b>Rotate</b>	<p>To rotate the map:</p> <ul style="list-style-type: none"><li>• Right-click on the map and drag</li><li>• Place two fingers on the map and rotate</li><li>• Select the <b>A</b> or <b>D</b> key on your keyboard</li></ul> <p><b>Note:</b> Click <b>Reset map orientation</b>  to return the map view to North.</p>
 <b>Home</b>	<p>The Home button  resets the map's pan, zoom, and rotation back to the default map view.</p>

For additional 3D navigation controls, see ["3D Navigation"](#)



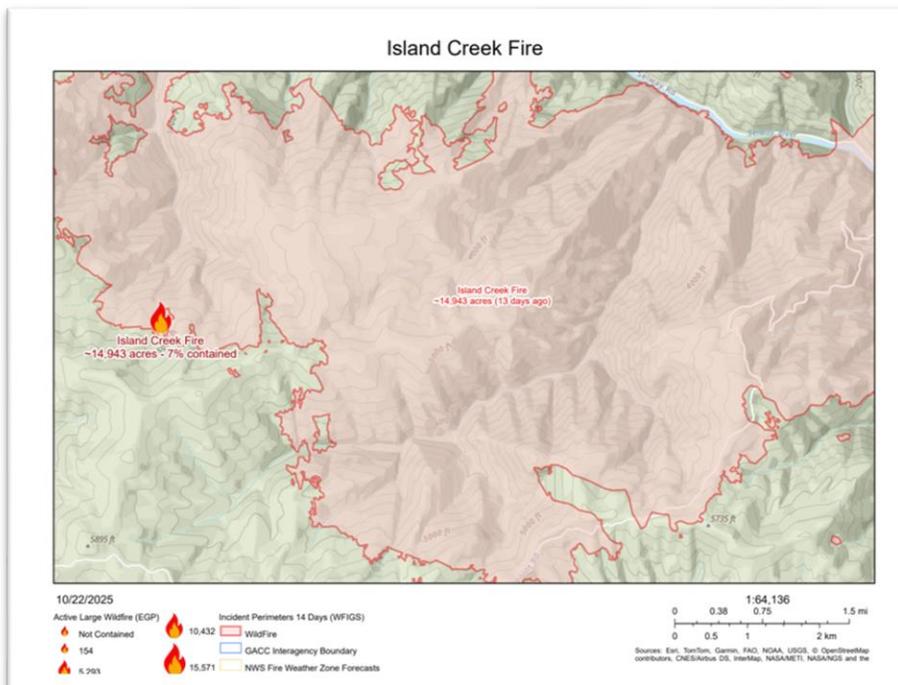
## Print

The Print menu allows you to export PDFs. The Print menu consists of 3 tabs: Layout, Map Only, and Exports.



## Layout

The **Layout** tab is used to customize map layout options such as including a legend or map title.





The following table describes the **Layout** tab's configuration options:

Field	Description
<b>Title</b>	Specifies the title that appears above the map on the printout. When this field is blank, the title will display the name of the layout template.
<b>Template</b>	Determines the page size.
<b>Show print area</b>	Shows the area that will be exported.
<b>File format</b>	Determines the file format that the map will be exported in.
<b>Set scale</b>	Sets the print area based on the map scale. The <b>Reset</b> button  sets the print area to your current map view. <b>Set scale</b> impacts the behavior of the <b>Template</b> and <b>DPI</b> fields.
<b>Author</b>	Displays the author in the lower right of the printout.
<b>Copyright</b>	Displays the copyright in the lower right of the printout.
<b>DPI</b>	Sets the DPI (dots per inch) of the printout. A higher number will create a better-quality image with a larger file size.
<b>Output spatial reference</b>	Sets the WKID (Well-Known ID).
<b>Include legend</b>	Adds a legend in the bottom of the printout with all layers that are viewable in the print area.
<b>Include north arrow</b>	Adds an arrow pointing north in the bottom of the printout.
<b>Include scale bar</b>	Adds a map scale bar in the bottom of the printout.
<b>Export</b>	Exports the map. The file can be downloaded from the <b>Exports</b> tab.



## Map only

The **Map only** tab exports a map without a surrounding layout.



The following table describes the **Map only** tab's configuration options:

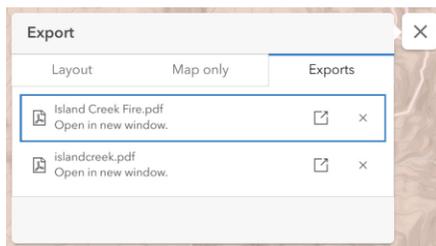
Field	Description
<b>File name</b>	Sets the name of the file in the <b>Exports</b> tab.
<b>File format</b>	Determines the file format that the map will be exported in.
<b>WidthxHeight</b>	Sets the print area based on the current map view.
<b>Show print area</b>	Shows the area that will be exported.
<b>Set scale</b>	Sets the print area based on the map scale. The <b>Reset</b> button  sets the print area to your current map view. <b>Set scale</b> impacts the behavior of the <b>Template</b> and <b>DPI</b> fields.
<b>DPI</b>	Sets the DPI (dots per inch) of the printout. A higher number will create a better-quality image with a larger file size.



<b>Output spatial reference</b>	Sets the WKID (Well-Known ID).
<b>Include attribution</b>	Displays attribution text at the bottom of the printout. The attribution text will automatically update based on the current map view.
<b>Export</b>	Exports the map. The file can be downloaded from the <b>Exports</b> tab.

## Exports

The **Exports** tab is where exported maps are listed. The file links expire after a period of time and are lost upon browser refresh.



The following table describes the **Exports** tab's icons:

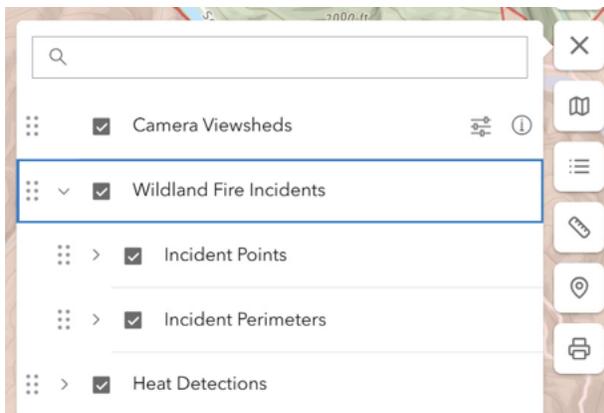
Icon	Description
	Opens the file in a new window.
	Removes the file from the list of exports.



# Layers

Layers are a visual representation of incident data. Layers place symbols onto the map to provide critical incident information at a glance. Some layer symbols provide in-depth incident details in a Pop-up when selected. Different layers are visible at different zoom levels. Layers that are enabled at your existing zoom level are highlighted in the **Layers** menu, while layers that are disabled at your current zoom level are greyed out.

## Layers Menu



To view the Layers menu, select the **Layers** button  from the toolbar. The Layers menu opens to show layer groups. Expand each layer group to select the layers that you want to display on the basemap. Clear the checkboxes for the layers that you do not want to display. The software will remember your layer configuration when you enable or disable layer groups.

**Note:** The Save Map feature allows you to save your selected layers by account. You can also reset to the default view.

The Layers menu offers the following functionality:

- A blue dot beside a layer indicates that the layer data is updating.
- To adjust a layer's opacity, select the layer's **Opacity** button  and adjust the slider.
- To search for layers and layer groups, use the search box located at the top of the Layers menu.  
**Note:** Do not include a space after the search term.
- To view the layer's source, select the **Layer information** button .
- To rearrange layers, click and drag the **Reposition** button .
- To expand and collapse the layers select the **Expand**  or **Collapse**  buttons.



## Legend

The legend provides information about layer symbols.

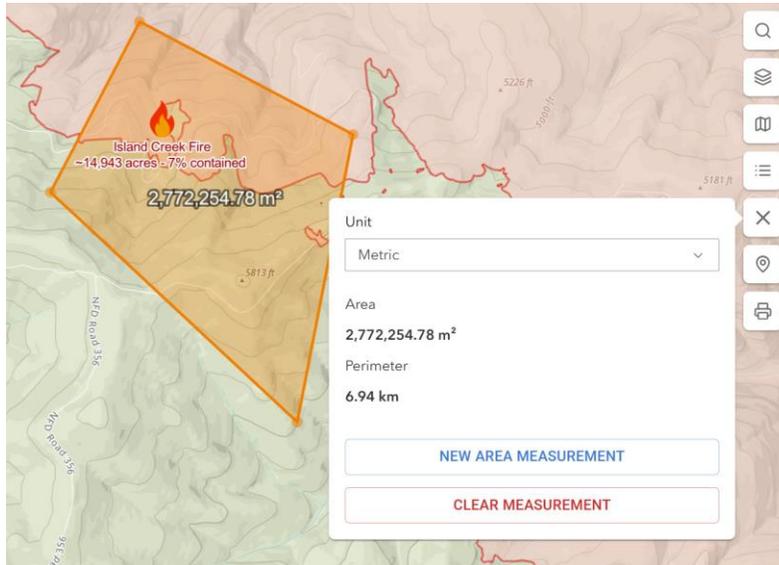


To view the Legend, select the **Legend** button . The legend dynamically changes depending on which layer symbols are visible in your current map view. The layer group and layer name are shown above the layer symbols.



## Measure Tool

The Measure Tool allows you to measure distance, area, and perimeter on the map with multiple units of length.



To use the Measure Tool:

1. Select the **Measure Tool** button .
2. Select **NEW AREA MEASUREMENT** or **NEW DISTANCE MEASUREMENT**.
3. Click on the map where you want to start the measurement. To add additional measurement points, click on the map again.
4. Double-click to complete the measurement.
5. Click and drag the measurement points to adjust the measurement.

Optionally, do any of the following:

- From the **Unit** dropdown list, select a different unit of measure. The measurement results are converted to the newly selected unit.
- Select **NEW AREA MEASUREMENT** to clear the current measurement and start a new one.
- While measuring, select the **Esc** key on your keyboard to clear the current measurement.
- To close the **Measure Tool**, select the  beside the **Measure Tool** button .



# 3D/2D Switch

The 3D/2D Switch provides powerful visualization and analysis capabilities for geographic data, allowing users to seamlessly transition between 2D and 3D map views. To toggle between the

2D and 3D view, select the **3D/2D Switch** <sup>3D</sup>. When you switch to the 3D view, the **Pan/Rotate Toggle** is added to the top of the toolbar.



## 3D Navigation

The standard map controls, as described in “[Navigation](#),” are consistent with the 3D map view. Below is a list of controls unique to the 3D view.

Navigation	Method
<b>Zoom</b>	<p>To zoom the map:</p> <ul style="list-style-type: none"> <li>• Select the <b>J</b> or <b>U</b> key on your keyboard</li> <li>• Hold the wheel button and drag up or down</li> </ul>
<b>Tilt</b>	<p>To tilt the map:</p> <ul style="list-style-type: none"> <li>• Select the <b>W</b> or <b>S</b> key on your keyboard</li> <li>• Hold right-click and drag up or down</li> <li>• Drag two fingers up or down on the map</li> <li>• To reset to the default tilt level, select the <b>P</b> key on your keyboard</li> </ul>



<p><b>Camera Focal Length (FOV)</b></p>	<p>To change the camera focal length (Field of View):</p> <ul style="list-style-type: none"><li>• Hold <b>Shift</b> and scroll up or down</li><li>• Hold <b>Shift</b>+wheel button and drag up or down</li></ul>
<p>  <b>Pan/Rotate Toggle</b></p>	<p>Toggle between pan  and rotate  mode to swap the left and right mouse button functionality for pan and rotate.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"><li>• The 3D view starts in pan  mode by default.</li><li>• The Pan/Rotate toggle does not affect touch controls.</li></ul>



# National Briefing Metrics Section

The National Briefing Metrics section displays active incident data from a national view and can be adjusted to view individual Geographic Area Coordination Center (GACC) boundaries. The section also allows you to view the Incident Management Situation Report (IMSR).

The screenshot shows the 'Briefing Metrics' dashboard. At the top, it indicates the last update time as 11/23/2025, 8:32 PM and includes a 'Refresh' button. Below this is a 'GACC' dropdown menu with the text 'Select a GACC'. The main section is titled 'Fire Incident Metrics' and includes a 'NICC Sitrep' link. A 'Preparedness Level' is shown as '4', accompanied by four fire icons and a 'Fire Information' link. Below this are four summary cards: 'INITIAL ATTACK' (25), 'NEW LARGE' (4), 'UNCONTAINED' (20), and 'CONTAINED' (5). The 'Current Resources' section shows 'CIMTs' (0) and 'NIMOs' (0). At the bottom, there are six resource cards: 'TYPE 1 CREWS' (0), 'TYPE 2 CREWS' (0), 'ENGINES' (3), 'DOZERS' (0), 'HELICOPTERS' (0), and 'FIXED WING' (0). A large orange button at the bottom right says 'EXPLORE ACTIVE INCIDENTS'.

Metric	Value
Preparedness Level	4
Initial Attack	25
New Large	4
Uncontained	20
Contained	5
CIMTs	0
NIMOs	0
Type 1 Crews	0
Type 2 Crews	0
Engines	3
Dozers	0
Helicopters	0
Fixed Wing	0



The National Briefing Metrics section displays the following metrics:

- Preparedness Level
- Initial Attack
- New Large Incidents
- Large Fires Contained
- Uncontained Large Fires
- CIMTS Committed
- NIMOs Committed
- Crews Deployed
- Engines Deployed
- Dozers Deployed
- Helicopters Deployed
- Fixed Wing Deployed

To filter the data by a specific GACC region:

1. Open the **GACC Regions** dropdown.
2. Select a GACC region from the list. The map zooms into the selected region, and the data is adjusted to reflect that specific region.
3. To return to the national view, select **BACK TO NATIONAL**.

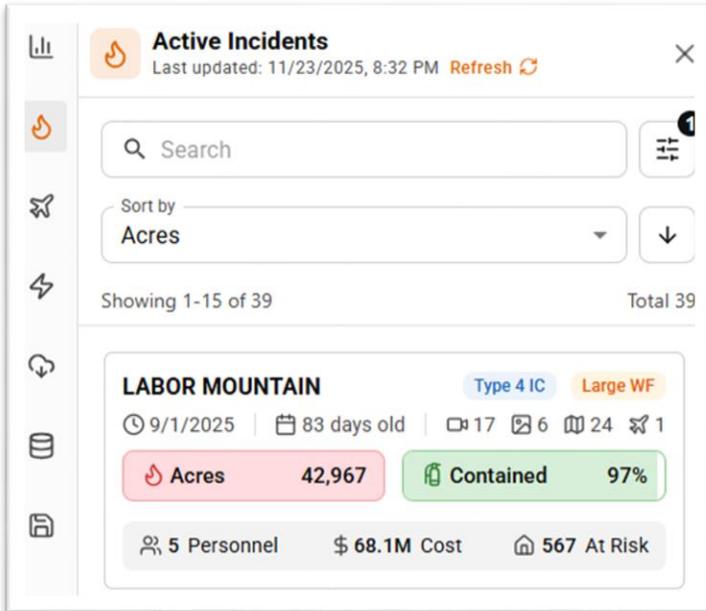
To view the Incident Management Situation Report:

- Select the **NICC Sitrep** button [NICC Sitrep](#) .



## Active Incidents Section

The Active Incidents section shows a list of all active incidents within the current map view. Selecting an active incident from the list zooms to the location and shows the incident details and Airborne Intel.



The INCIDENT Overview displays the following metrics:

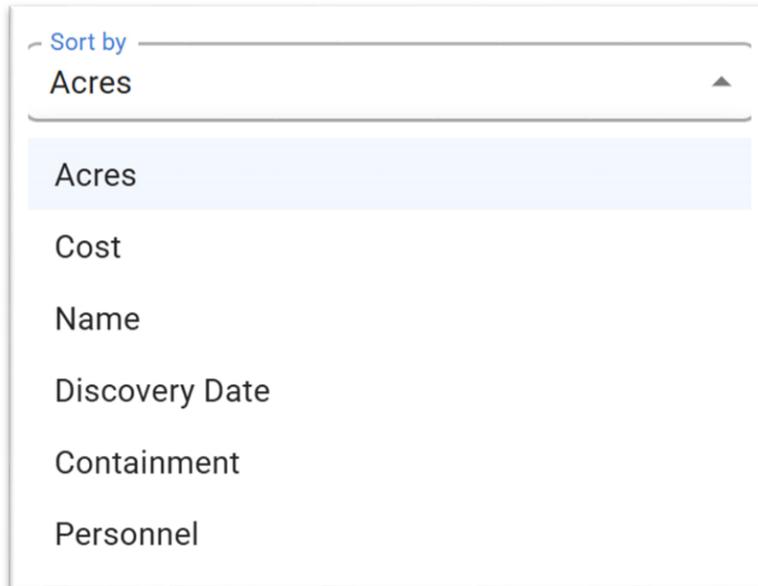
- Acres Burned
- Percent Contained
- Personnel Assigned
- Cost
- Structures Threatened



## Sorting Incidents

To sort the active incidents:

1. Select the sorting criteria from the **Sort By** list.



2. To display the incidents by descending or ascending order, select the **Sort Direction**

button  .

## Filtering Incidents

To search for an incident by name, enter the full or partial name of an incident into the search box.

### Note:

- Only active incidents that are within the current map view will be shown.
- Do not include a space after the incident name.

Select the **Open Filters**  button to Filter Incidents by GACC, State, Layer, Team Type, Acres, or Discovery Date Range.

To search for an incident by discovery date, select the **Discovery Date Range** Filter and enter a timeframe into the calendar field. Alternatively, choose a preset timeframe from the blue **Discovery Date** buttons. To clear the calendar fields, select the **RESET FILTERS** button.



## Incident Details

Selecting an incident from the Active Incidents list zooms to the incident on the map and populates the incident and airborne intel details. Closing the incident details returns you to your previous map view.

The incident details include:

- Containment
- Acres Burned
- Cost
- Discovery Date
- Resources Assigned
- Structures Threatened
- Dispatch Center
- Airborne Intel
- Committed Resources (SitRep)
- Assessment Information
- Incident Information
- Sit-209 Detailed Resources
- IROC Detailed Resources
- Detailed Information

## Sharing Incident URLs

WildFireSA allows sharing incident URLs to easily zoom to and view details of specific incidents. The Share button copies your current URL, which contains zoom and location data, to accurately share incidents.

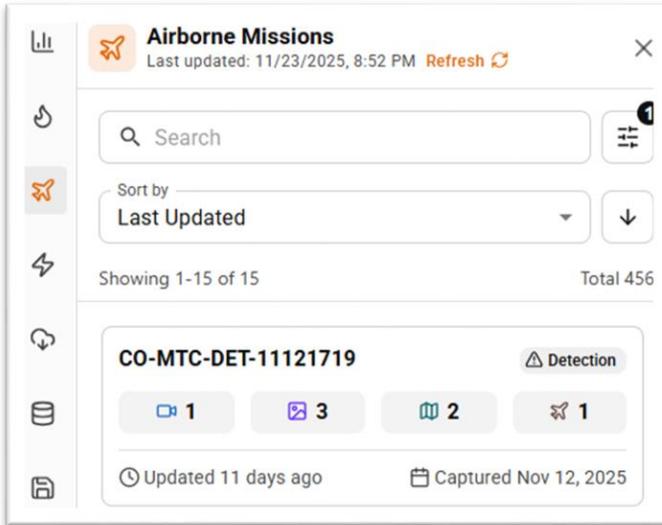
To share an incident URL:

1. Select an incident from the Active Incidents list.
2. Select the **Copy Incident IRL** button from the upper right corner of the Incidents Panel. The incident URL is copied to the clipboard.
3. Paste the URL to share it.



# Airborne Missions

The Airborne Missions section shows airborne intelligence, including missions that are not tied to incidents. You can view the intel, download it, or zoom to it on the map. Selecting a mission shows the mission's airborne intelligence, including videos , images , features , and missions .



To Search for a Mission:

1. Type the mission's name into the search box.
2. If the mission is tied to an incident, open the filters and select the **Incident Only** toggle to filter the results.
3. Select the mission.

To View Airborne Intel:

1. Open the **Airborne Missions** widget on the left side bar.
2. Select a mission from the **Airborne Missions** listed or search for a specific mission.
3. Select the **Videos**, **Images**, or **Features** tab.
4. Scroll through the list and click on the piece of intel you are interested in viewing.

To Download multiple videos, images, or features:

1. Select the **SELECT MULTIPLE** button .
2. Select the entries you want to download. The blue outline shows which entries are selected. Select the entries again to deselect them.
3. Scroll to the top of the list, and select the **Download Selected** button .



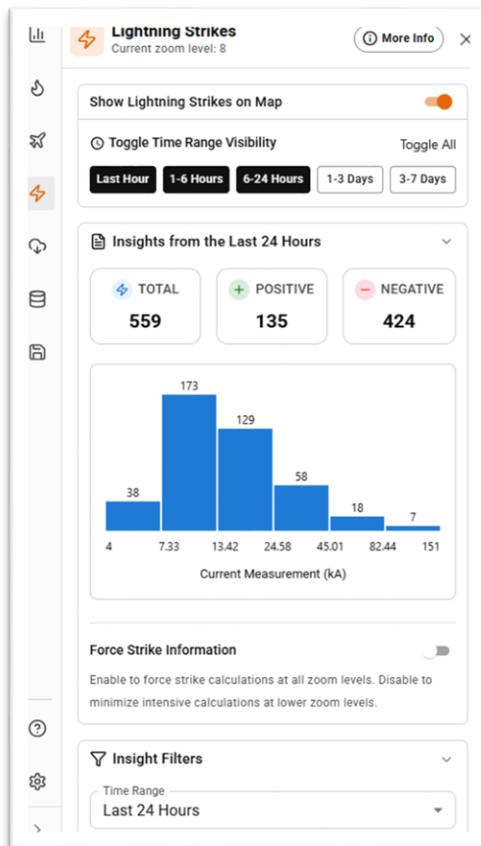
The following table describes the Airborne Intel icons:

Icon	Description
 Zoom to	The <b>Zoom to</b> button zooms to the incident on the map.
 Download	The <b>Download</b> button downloads the image, video, or feature.
 Toggle Visibility	The <b>Toggle Visibility</b> button hides the entry from being shown on the map.



## Lightning Strikes Widget

The Lightning Strikes Widget displays and exports strike counts for cloud-to-ground lightning strikes. The strike counts are shown in a histogram grouped by current strength (kA).



To export lightning data:

1. Zoom to the desired region. The exact coordinates of the data being exported are shown under **Location Details**.  
**Note:** Lightning data will not display until the map at zoom 8+. To tally data for two or more states, select **Force Strike Information**.
2. Use the Toggle Time Range buttons or the Insight Filters to select the time frame to be exported. The maximum timeframe is seven days.
3. Select **DOWNLOAD DATA** or **GEOPDF**.



# ATU Download

The **ATU Download** feature allows you choose an ATU Feature Layer for the current or previous year and export retardant drop features as a zip file.

The screenshot shows a web interface for downloading ATU features. On the left is a sidebar with icons for home, ATU Download, layers, and search. The main content area is titled 'ATU Download' and contains the following elements:

- Download ATU Retardant Drops Features**
- Choose an ATU Feature Layer and click download to export retardant drop features as a zip file.
- A dropdown menu labeled 'ATU Feature Layer'.
- A 'DOWNLOAD' button with a download icon.

## ATU Download

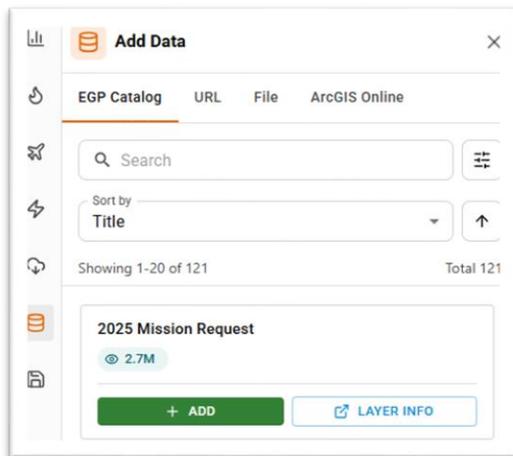
To download ATU Retardant Drops, select an ATU Feature Layer from the drop-down list, then click the download button  to export as a zip file.

**NOTE:** This will download the entire Feature Layer you select, regardless of map extent.



# Data Catalog

The Data Catalog Widget allows you to add layers into the **Layers** menu from EGP's data catalog, URLs, zipped shapefiles, or an ArcGIS Online account. To open the Data Widget, select the **Data Catalog** button from the left side bar.



## EGP Catalog

To add a layer from EGP's data catalog, select the **+ ADD** button next to a layer name. You can filter down the catalog by selecting tags or searching layer names. To view the layer's source, select the **LAYER INFO** button [LAYER INFO](#).

## URL

To add a layer from a URL, enter the **Layer URL**. Optionally, enter a **Layer Title**.

**Note:** Supported layer types: Map Service, Feature Service, WMS, KML/KMZ. Private non-MFA ArcGIS layers are supported, but WMS/KMZ/KML layers must be public.

## File

To add a new layer from a shapefile, select a .zip file using the **Choose File** button and select **ADD TO MAP**. **Note:** Limited to a maximum of 4,000 records. The maximum upload size is 2MB for a shapefile.

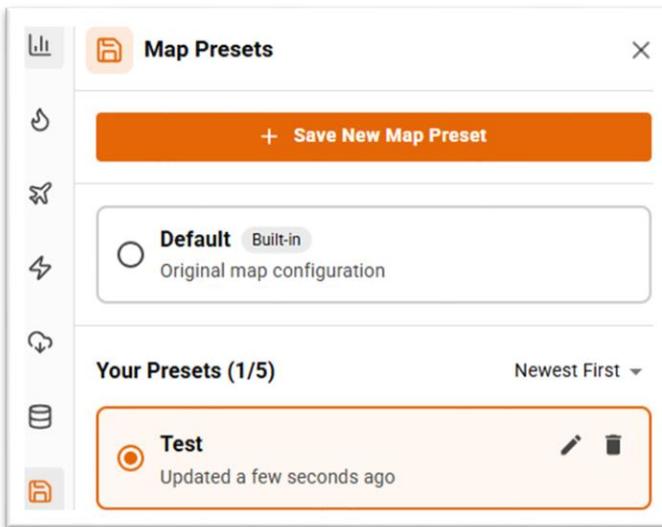


## AGOL

To add a layer from ArcGIS Online, sign into your ArcGIS Online account using your **Username** and **Password**. **Note:** ArcGIS Online currently supports non-MFA accounts only. You will be unable to add internal NIFC ArcGIS Online content.

# Map Presets

The Map Presets feature allows users to save up to five maps by account.



## Map Presets

To save a new map preset, ensure you have the settings you would like saved selected, and then select the **Save New Map Preset** button **+ Save New Map Preset**. Enter a preset name and select **SAVE**.

### NOTE:

- To go back to the Default view, select the **Default** button 
- You can save up to five map presets.



## Version Control Table

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<b>Document Name:</b>	WildFireSA User Guide
<b>File Location/Path:</b>	<a href="https://portal.wildfire.gov/egp/app/sa-advanced">https://portal.wildfire.gov/egp/app/sa-advanced</a>

Version Number	Effective Date	Author	Purpose/Change	Reviewed By
1.00	4/28/2025	Taylor Diaz	Publish	Taylor Diaz
1.01	5/06/2025	Taylor Diaz	SME Review	Michael Cibicki
1.02	5/20/2025	Taylor Diaz	Image updates	Taylor Diaz
1.03	8/14/2025	Taylor Diaz	Added Lightning Widget and Airborne Missions	Taylor Diaz
1.04	11/6/2025	Chelsea McKemy	UI/UX Changes	Sam Markson
1.04	11/11/2025	Chelsea McKemy	Review	David McAdoo