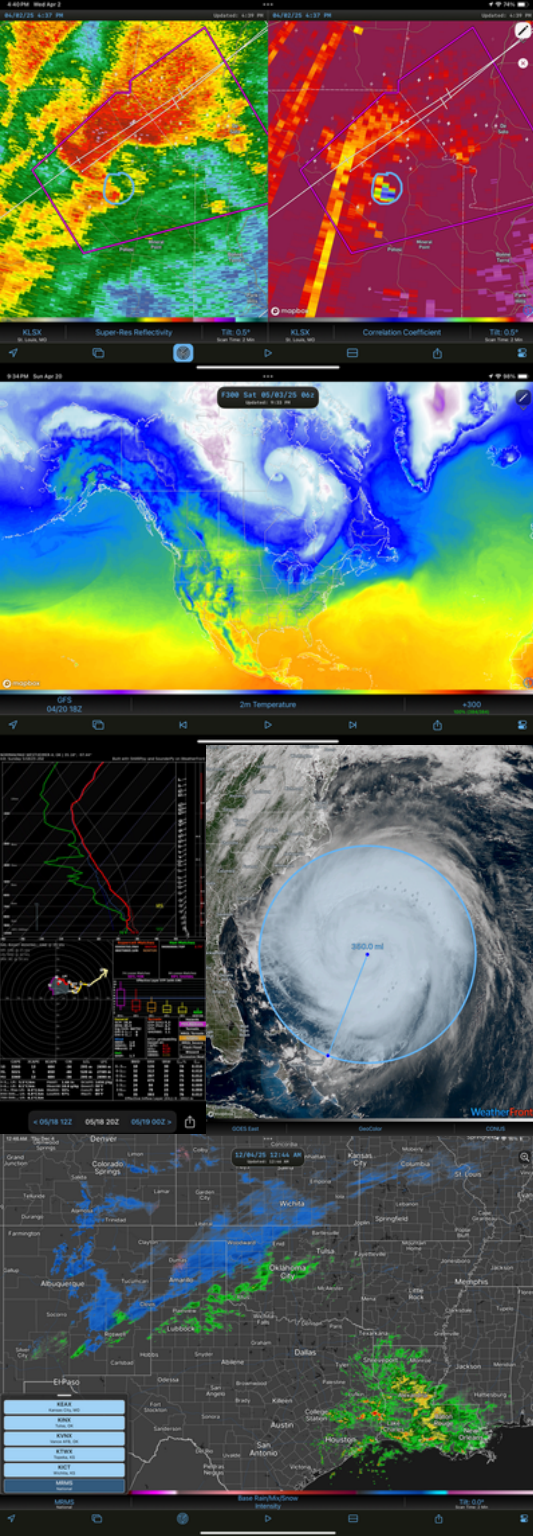




WeatherFront

User Guide

*Your one-stop shop for weather data
on a mobile and desktop device.*

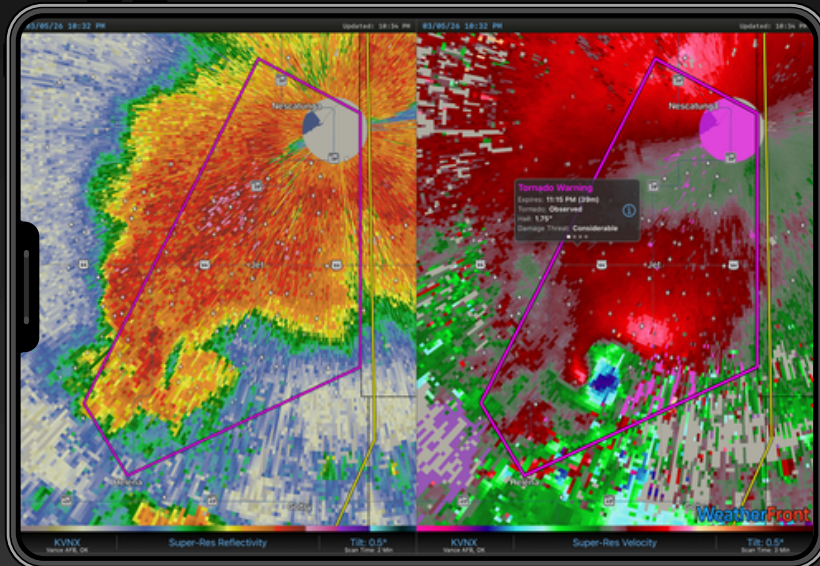
Quick Links

WeatherFront

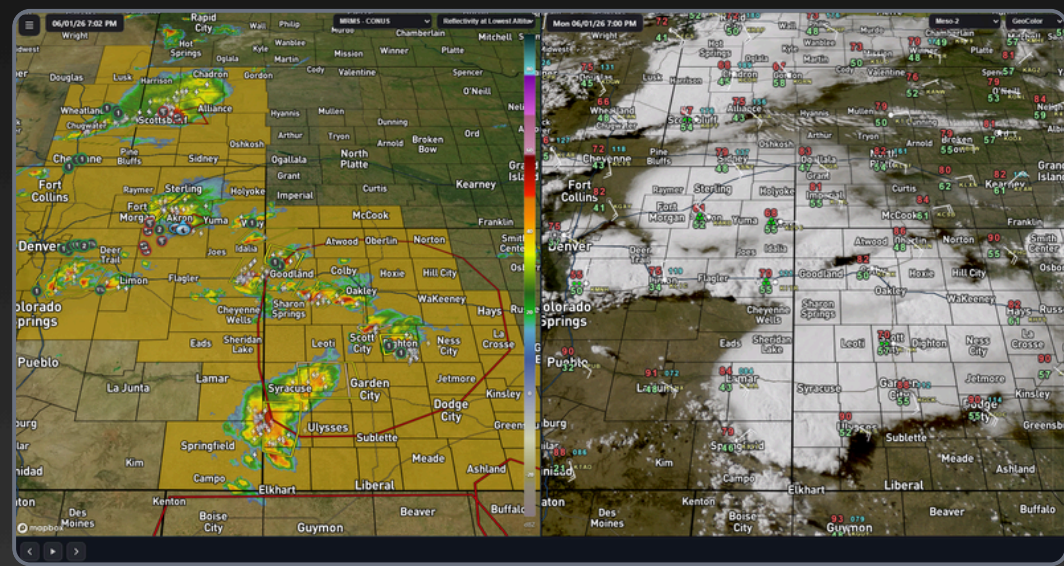
[App Overview](#)

[Account Setup](#)

Tutorials (Click to Access)

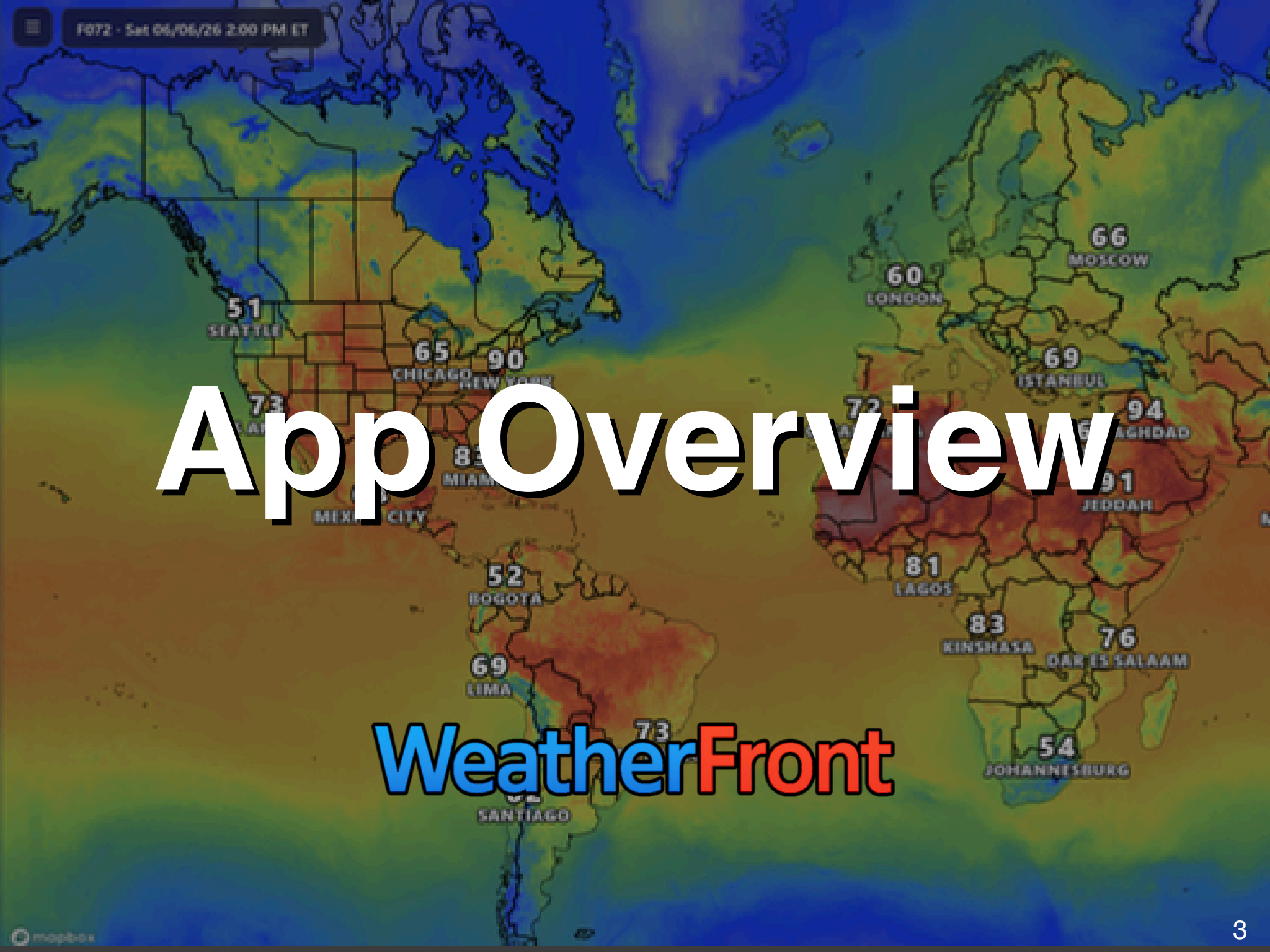


iOS/Android



Web

MacOS/PC/Linux: Coming soon!

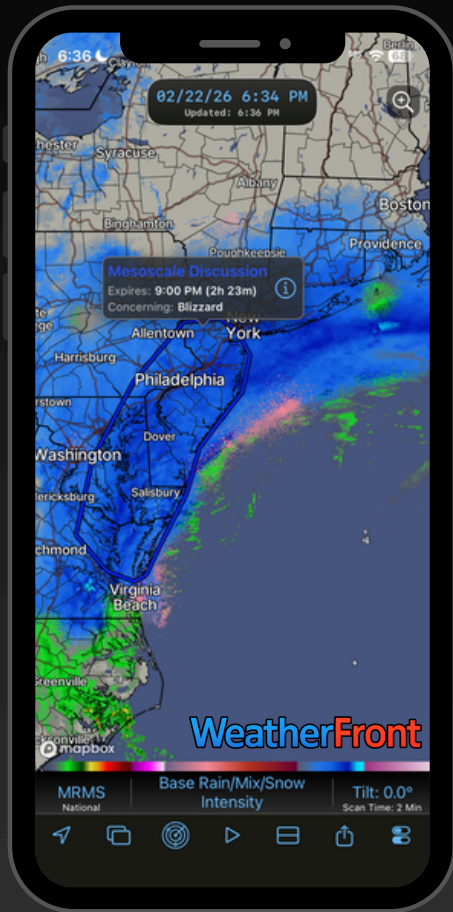
A weather map of the world showing temperature gradients. The map uses a color scale from blue (cooler) to red (warmer). Major cities are labeled with their current temperatures in white text. In the top left corner, there is a small menu icon and a text box indicating the time and date: 'F072 - Sat 06/06/26 2:00 PM ET'.

F072 - Sat 06/06/26 2:00 PM ET

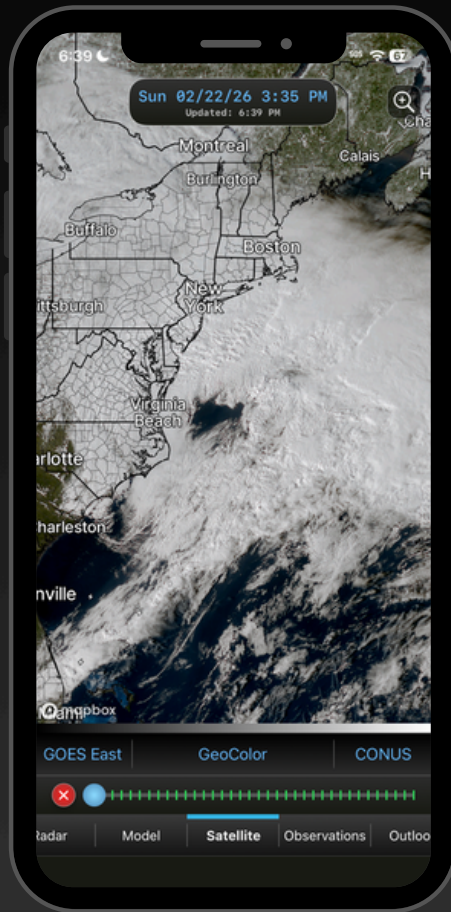
App Overview

WeatherFront

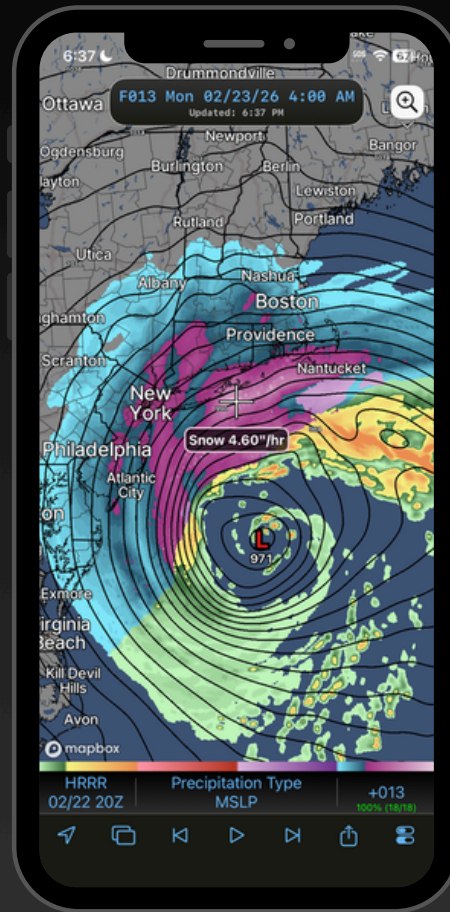
A FREE Professional Weather App



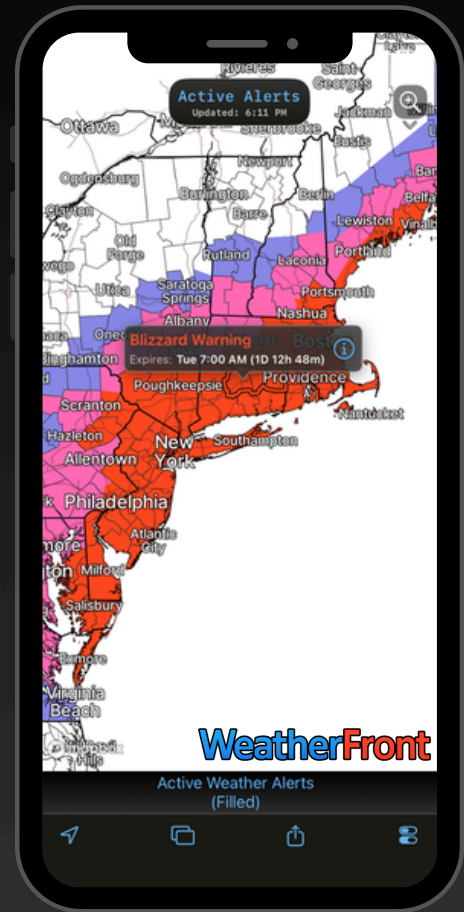
Radar



Satellite



Models



NWS Alerts



WeatherFront

Your one-stop shop for weather data on a mobile device

and more...

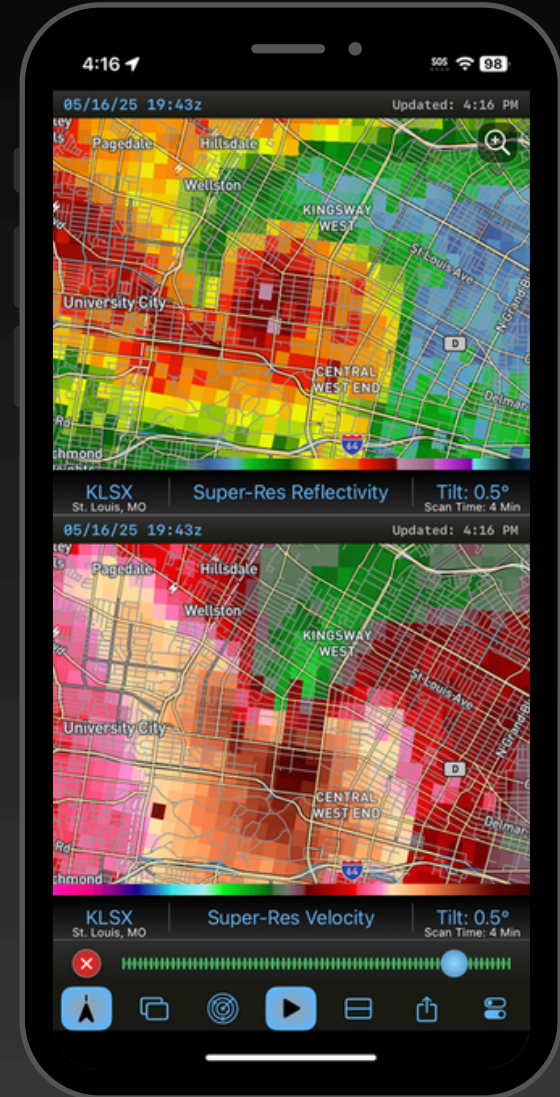
FREE Radar Features **WF**

- National Radar Mosaic (MRMS)
- US & Canadian Radars
- Rain/Mix/Snow Intensity Algorithm
- Dual-Pane
- **Press and hold to switch to the nearest radar**
- 24-hour loops
- Draw, Measure, Sample Tools

Plus...

Access 80+ MRMS algorithms with a subscription to WF Advanced!

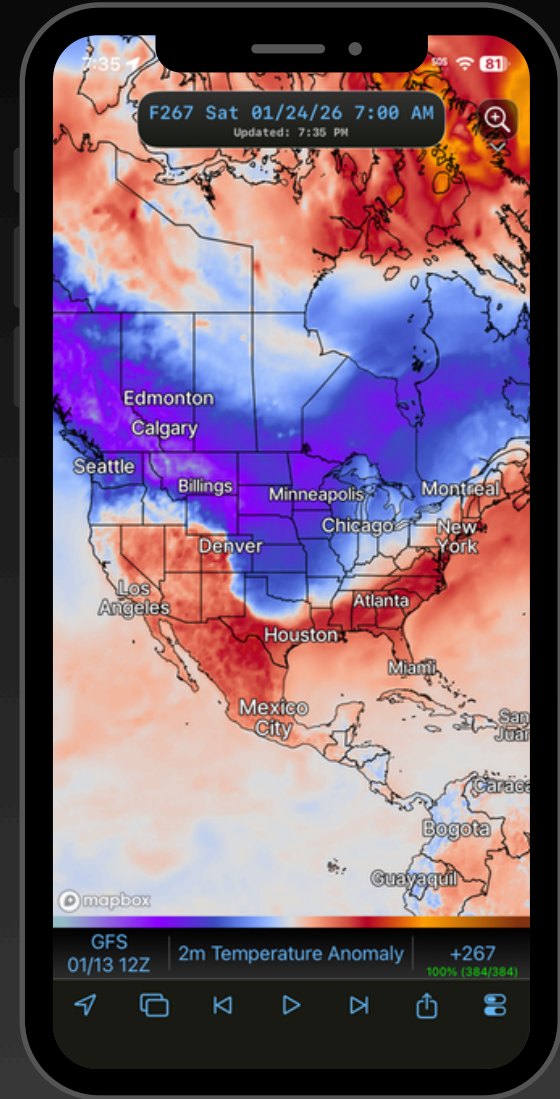
WeatherFront



Model Features

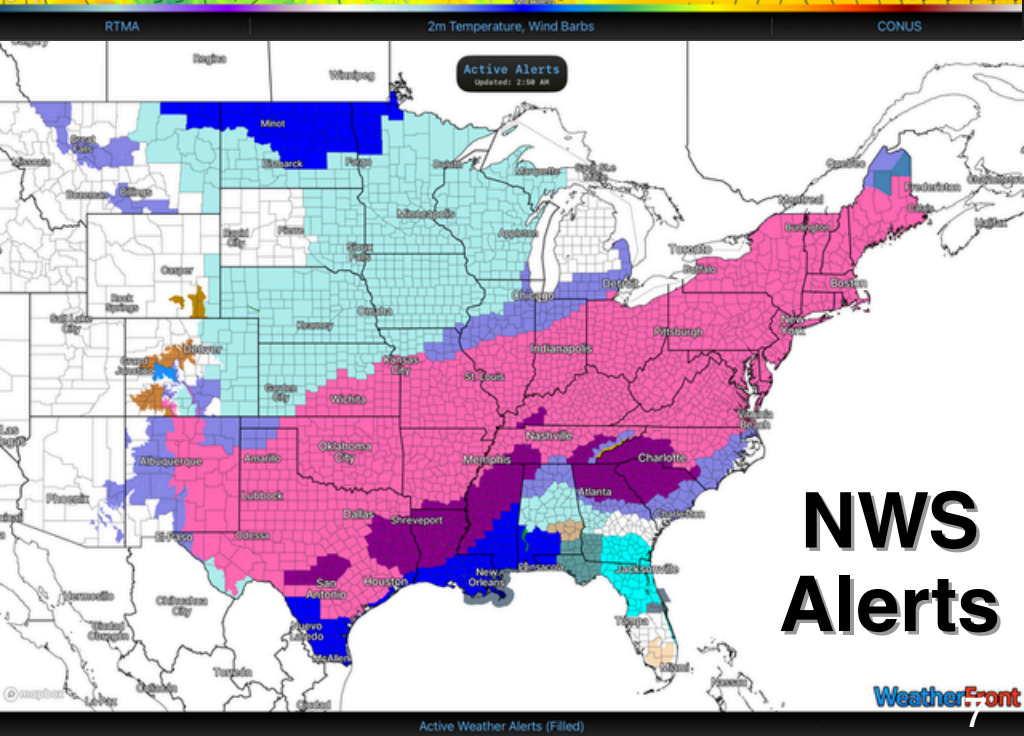
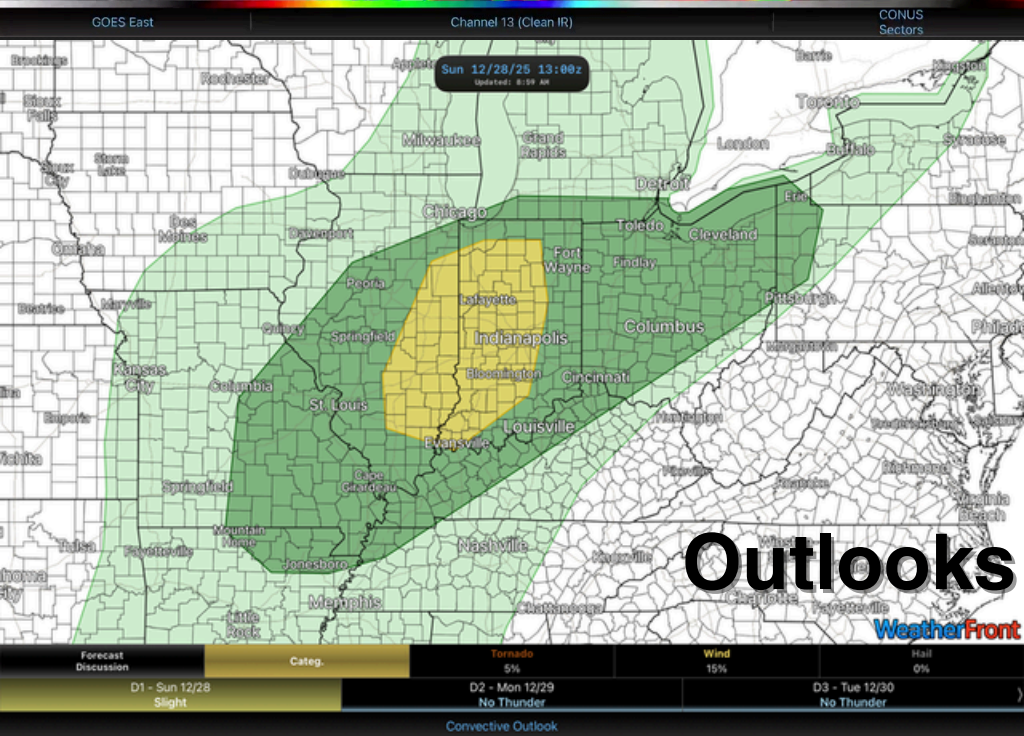
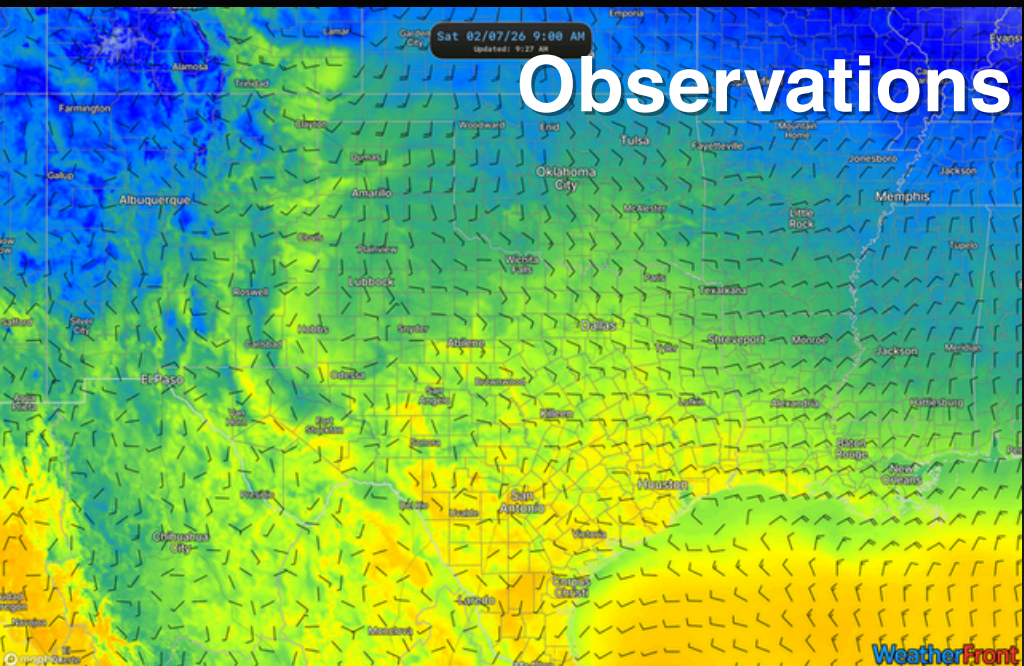
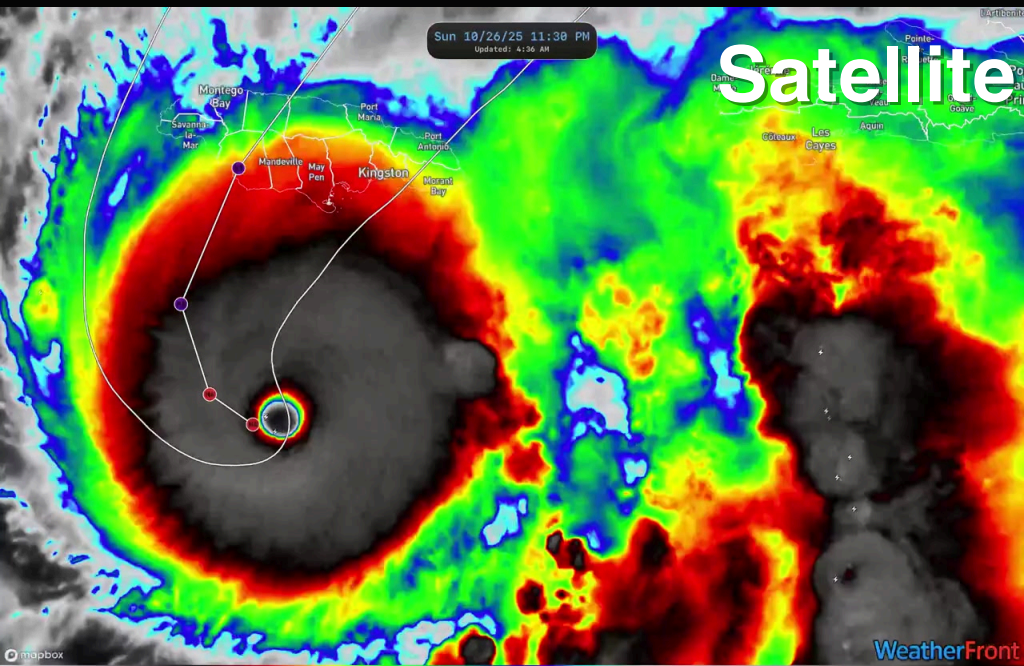


- Model viewing optimized for a mobile device
- Dynamic zooming and scrolling
- 25+ models & ensembles
- Model- and model-run comparison
- **Press and hold to generate a model sounding**
- Mesoanalysis Sounding Tool on Radar and Satellite Tabs

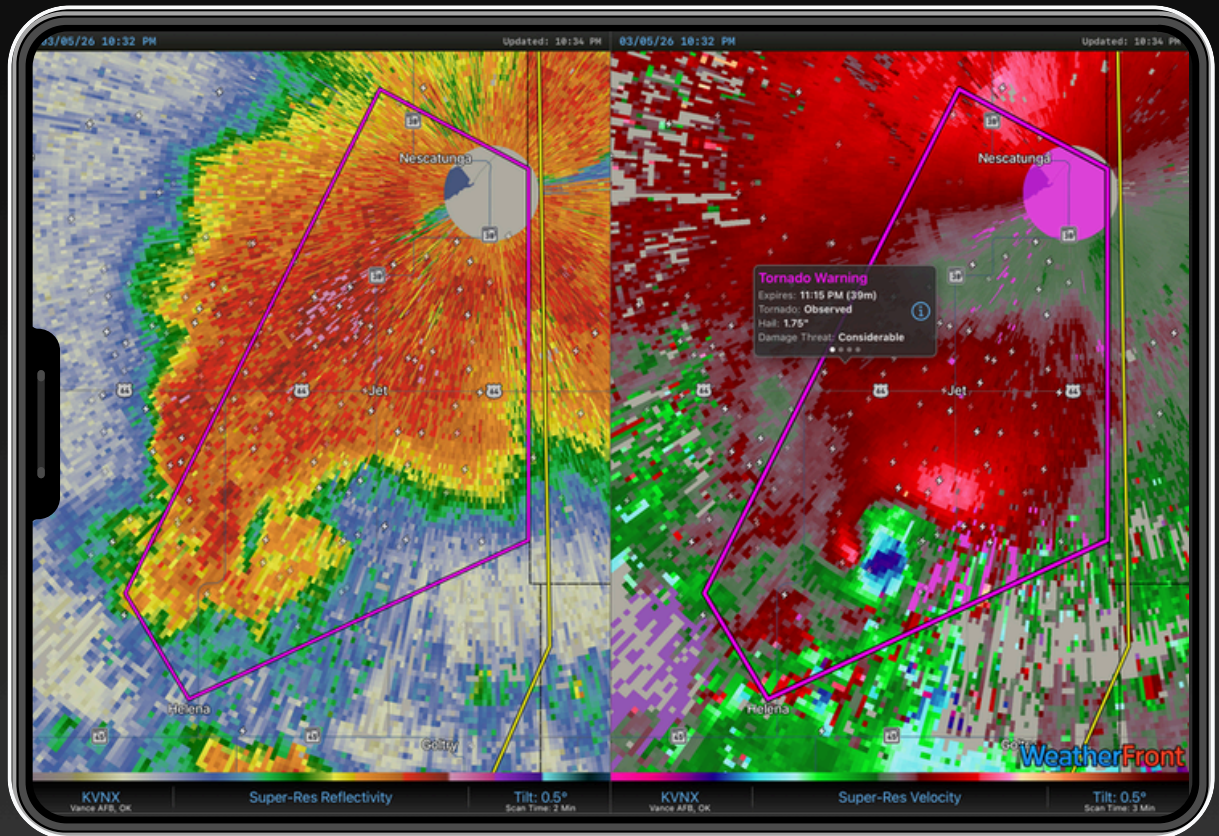
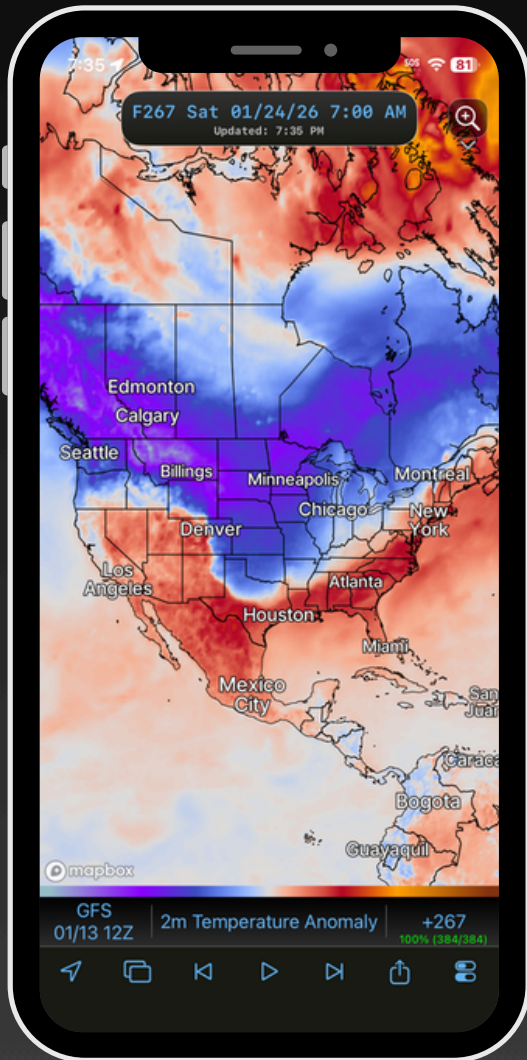


WeatherFront

Other Products



iOS/Android App Tutorial



WeatherFront

Program Layout



1. Navigation Menu

- A - Display GPS Location
- B - Data Tab Selector
- C - Radar Selector
- D - Play/Loop
- E - Dual Pane
- F - Export
- G - Settings

2. Product Menu

- H - Source Selector
- I - Product Selector
- J - Tilt/Hour/Domain



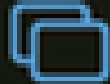
3. App Tools Menu

- Measure
- Draw
- Sample
- Mesoanalysis
- Sounding Tool
- Toggle
- Route Planning

Navigation Menu



A



B



C



D



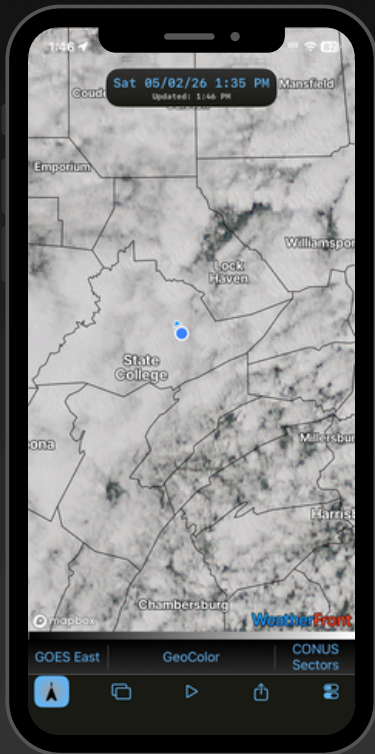
E



F

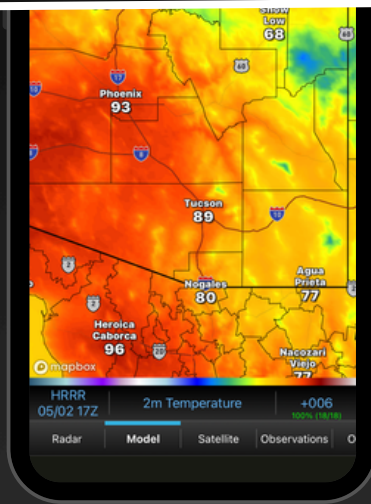


G



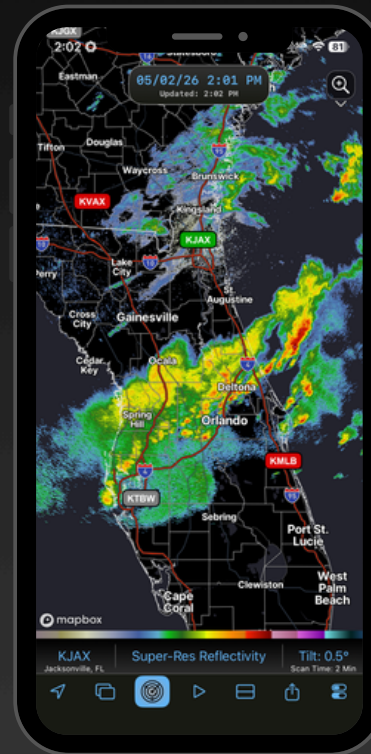
A - GPS Arrow

1 click for GPS dot
2 clicks for arrow



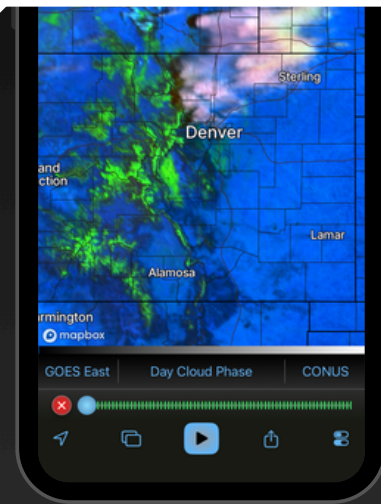
B - Overlapping Rectangles

Switch between the
Radar, Models,
Observations,
Outlooks, and
Mapping tabs



C - Radar Selector

Activate to view
radar locations



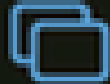
D - Play/Loop

Loop through data
automatically or
manually scroll
back and forth

Navigation Menu



A



B



C



D



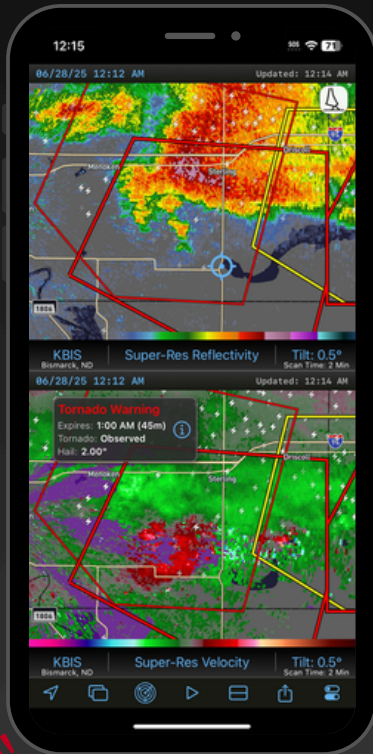
E



F

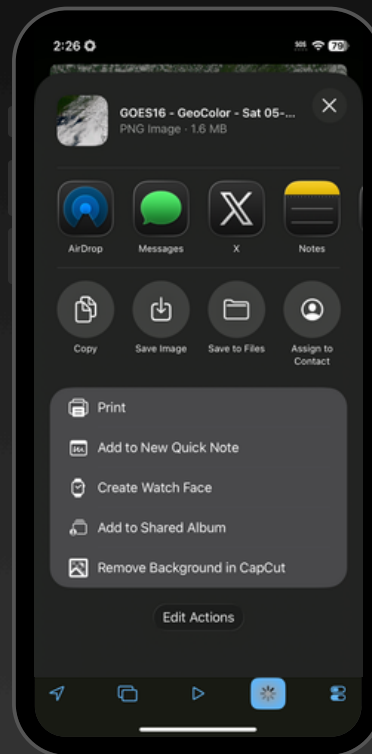


G



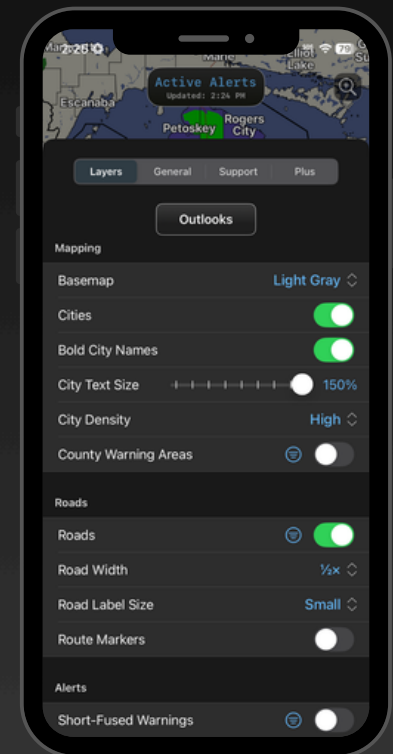
E - Dual Pane

View multiple radar variables
in portrait or landscape mode



F - Export

Save an image or loop to your
phone & export to any app



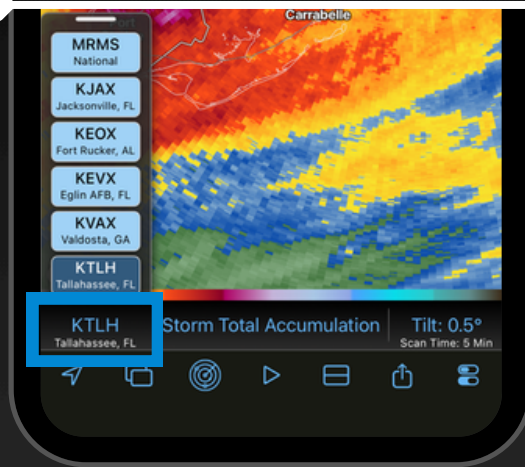
G - Settings Menu

Customize settings &
subscribe to WF

Product Menu



Source Selector



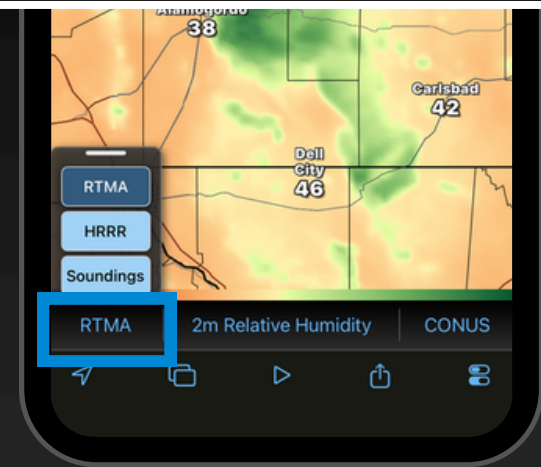
Radar Tab:

- Select MRMS or a local radar
- List includes radars closest to the map center
- MRMS will always be available at the top
- Alternatively, long press anywhere on the map to switch to the closest radar



Model Tab:

- Select a model (1 click) or model run (2 clicks)
- Activate Model Comparison or Model Run Comparison by clicking the buttons at the top of each list



Observations Tab:

- **HRRR Analysis:** Includes the first hour of the last 48 runs of the HRRR model.
- **RTMA:** Real-time mesoanalysis data
- **Observed Soundings:** View data from NWS upper-air launches

Product Menu



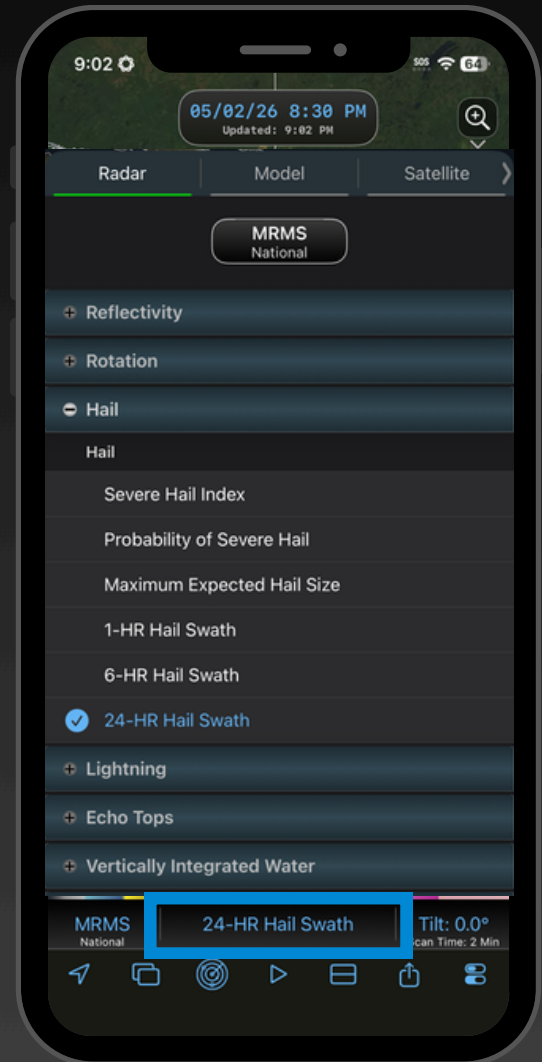
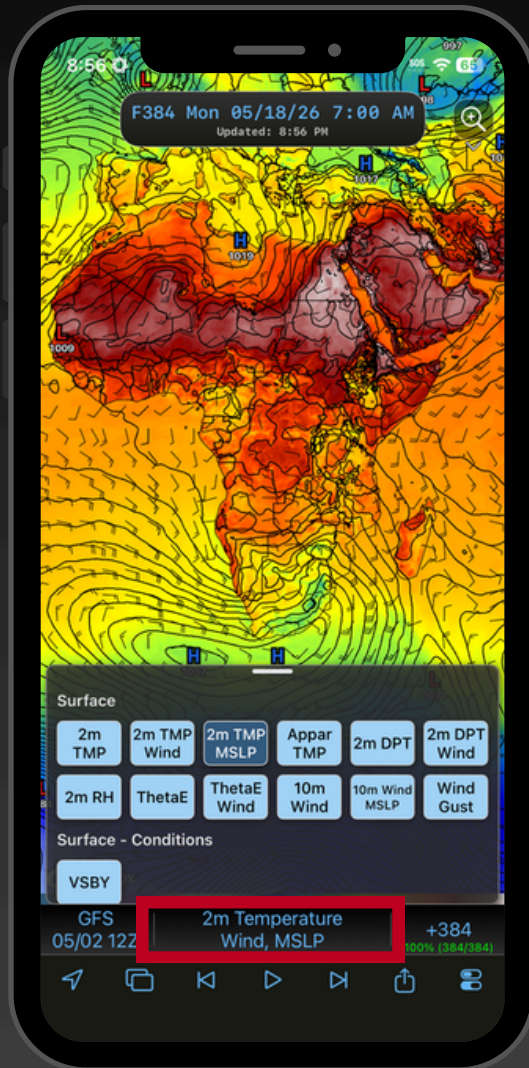
Product Selector

Full Product Menu

- Single Click on the current product to display a full product menu
- Navigate all the products in WeatherFront with ease

Product Selection Quick Menu

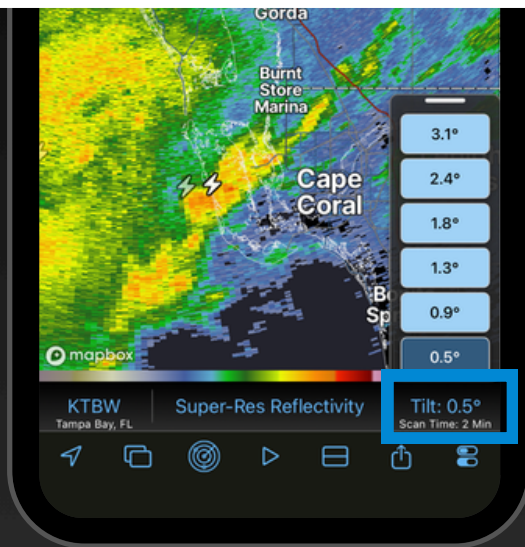
- Long press on the current product to display a quick menu
- Easily swap between radar products, model variables, or satellite channels



Product Menu



Tilt / Hour / Domain



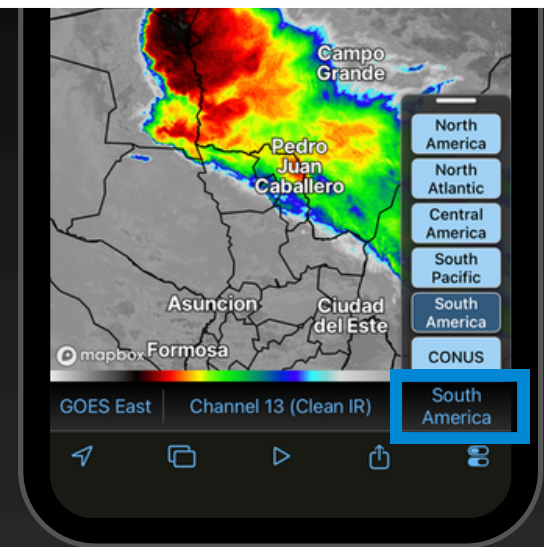
Radar Tab:

- Choose a radar elevation angle/tilt for any local NWS, Canadian, or international radar site.
 - All elevation angles up to 3.1° are available!



Model Tab:

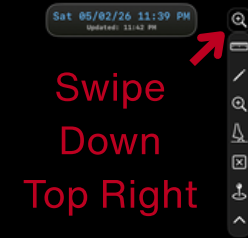
- Manually select a model output hour:
 - Sorted by day/date
 - Shows the model run hour (+003 = 3rd hour)
 - Lists the valid time in UTC/Zulu



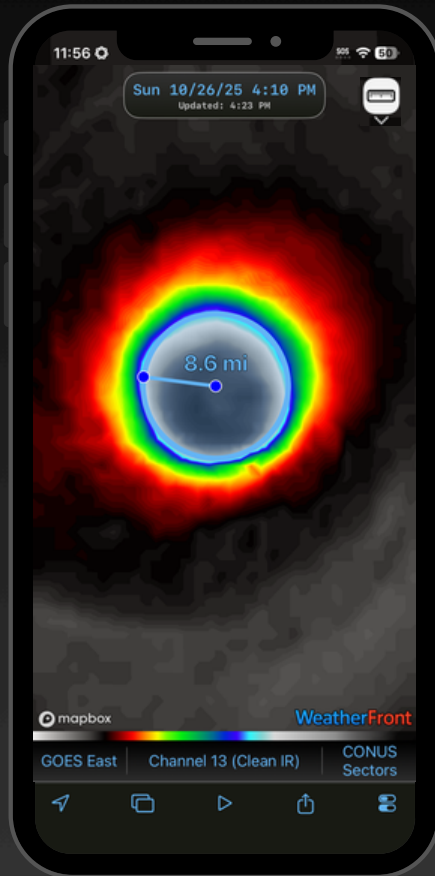
Satellite Tab:

- Select the satellite domain:
 - North, Central, & South America
 - North Atlantic & South Pacific
 - CONUS & CONUS Sectors
 - Meso-1 & Meso-2

App Tools Menu



Measure



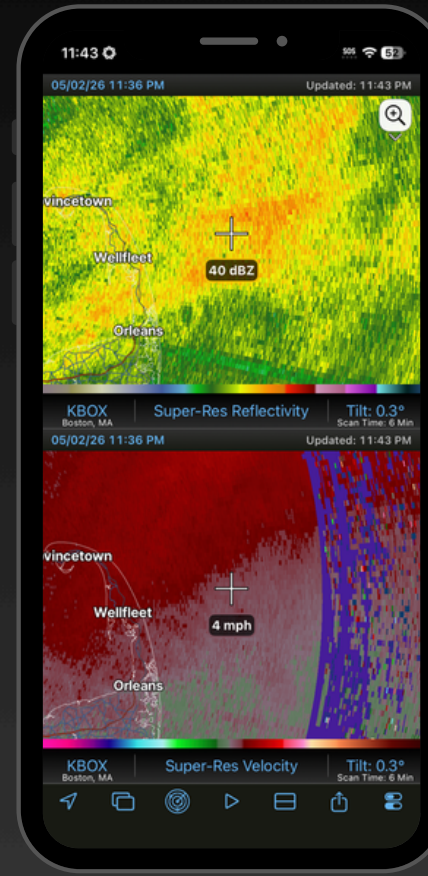
Measure distance between two objects by dragging your finger along the screen.

Draw



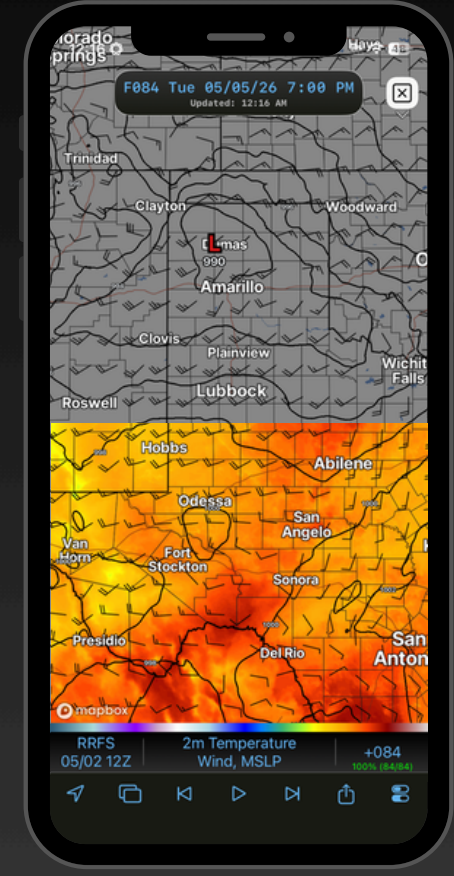
Choose from a full palette of colors as you annotate storm motion or highlight important features

Sample



Turn on the magnifying glass to sample data values on radar, satellite, and model data

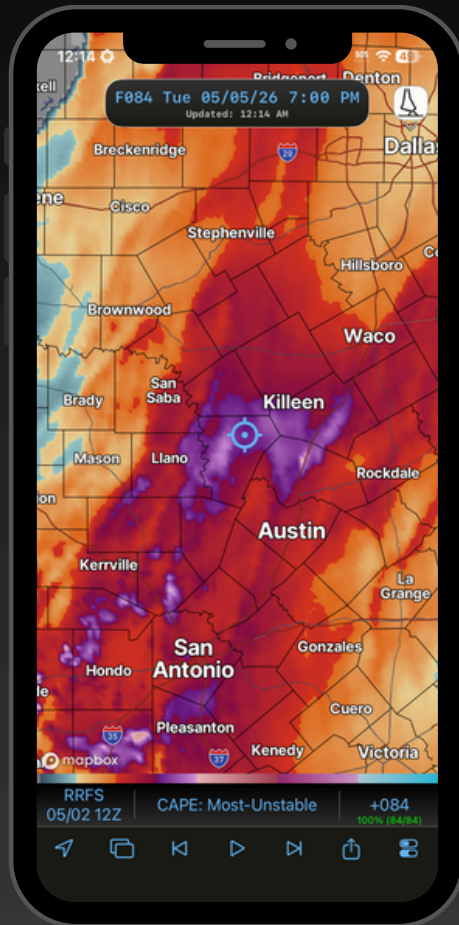
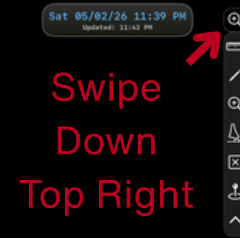
Toggle



Toggle off the plotted data to make your basemap easier to see or to assist with navigation

App Tools Menu

Mesoanalysis Sounding Tool



1. Activate by selecting the icon that looks like a sounding
2. Long press on the map while viewing radar, satellite, observations, or outlooks
3. Sample the near-storm environment & view a sounding in portrait or landscape mode

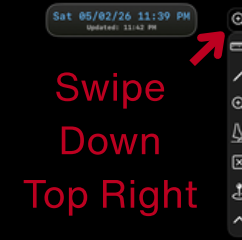


4. Investigate the sounding profile by pinching to zoom in
5. Use the arrow keys at the bottom to click backward and forward in time to watch the cap break or low-level jet get stronger.
6. Export the sounding loop and share it with your friends

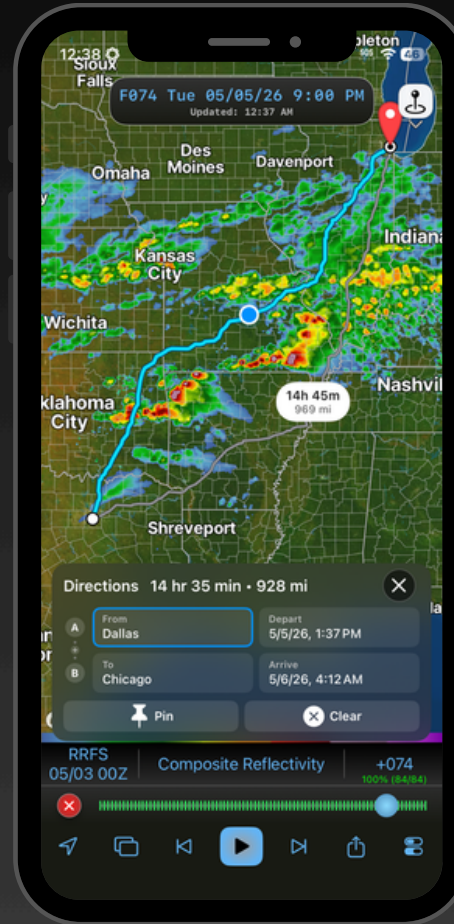
WeatherFront

App Tools Menu

Location Search / Route Planning



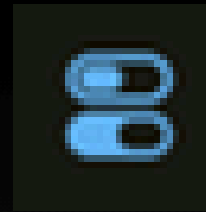
1. Click on the location pin icon in the App Tools Menu to begin
2. Select a location by (1) using the search bar or (2) long pressing anywhere on the map
3. Pin the location on the map or calculate a route from your current location by clicking Routes



4. Optionally edit your departure time, arrival time, or starting location
5. Add a waypoint by clicking the plus sign between A and B and repeating step 2
6. On the Models tab, press play and scroll through your route to determine what conditions to expect

WeatherFront

Settings Menu



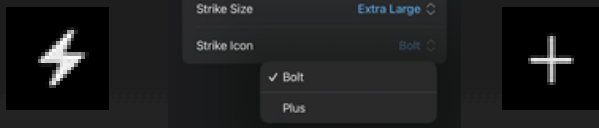
Bottom
Right
Icon



Layers Tab - Data Section

GOES-East GLM Strikes (Lightning)

- Adjust Strike Size & Strike Icon by clicking the blue circle



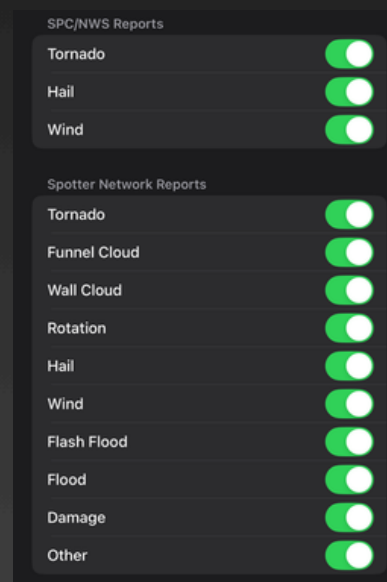
Spotters

- View spotter locations via Spotter Network



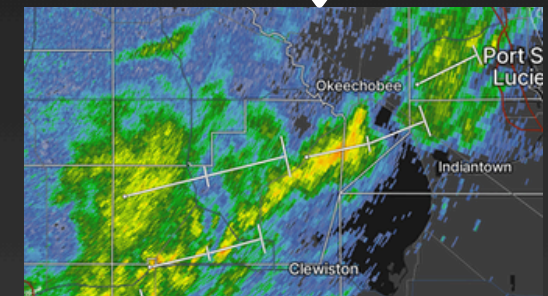
Storm Reports

- Filter by source (SPC/NWS or Spotter Network) & type



Storm Tracks

- Visualize storm motion and speed



METARs

- Click the blue text to configure which values display on the map



Loop Data

- GOES-East GLM Strikes
- METARs
- Storm Reports

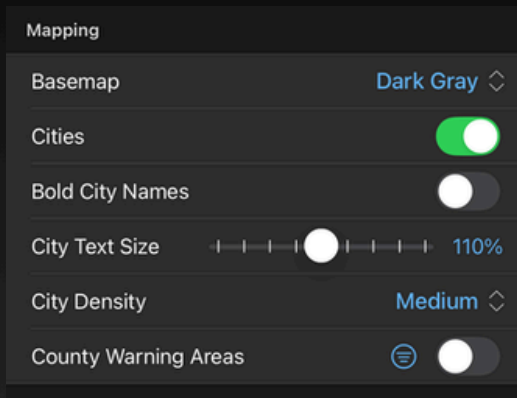
Settings Menu



Bottom
Right
Icon



Layers Tab - Mapping Section

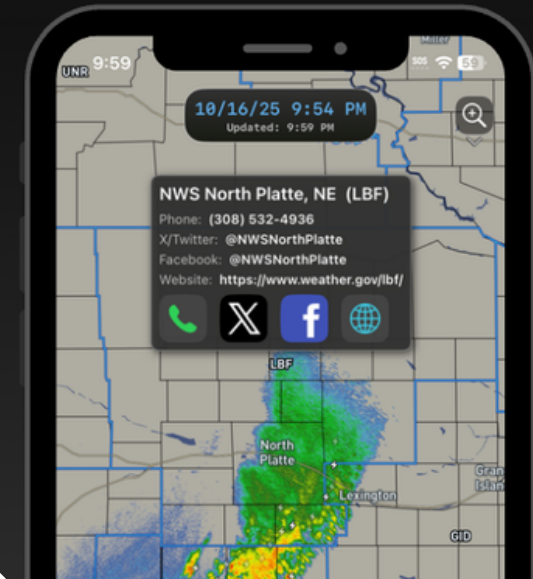
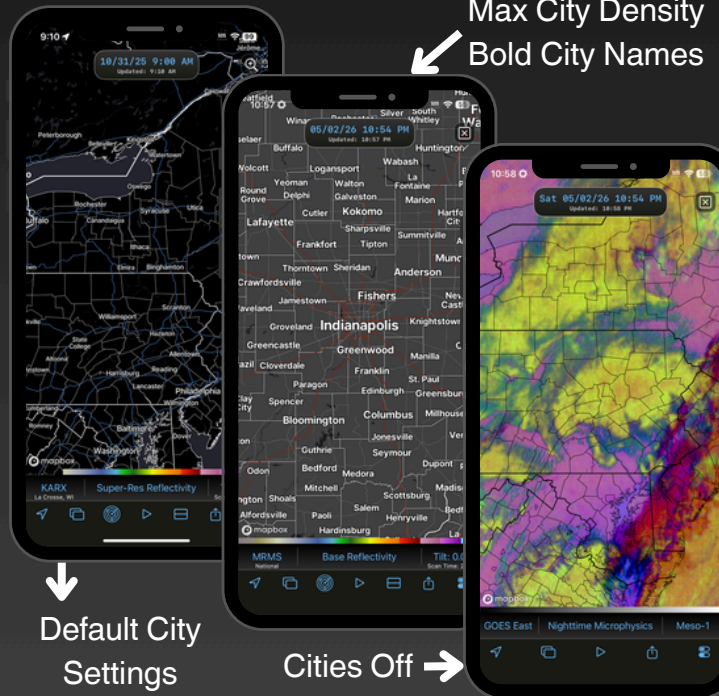


City Settings

- Toggle city names on/off
- Make city names bold so they stand out more
- Adjust text size and density

Basemaps

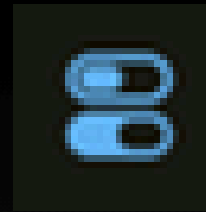
- Choose from the following:
 - Satellite
 - Satellite 2
 - Black
 - Dark Gray
 - Medium Gray
 - Medium Gray 2
 - Light Gray
 - White



County Warning Areas

- Toggle on to view NWS office boundaries
- Click blue circle to toggle on WFO labels
- On map, click WFO labels to display contact info & send reports to an office

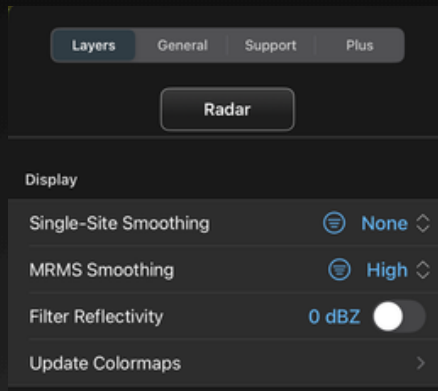
Settings Menu



Bottom
Right
Icon



Layers Tab - Display (Radar)

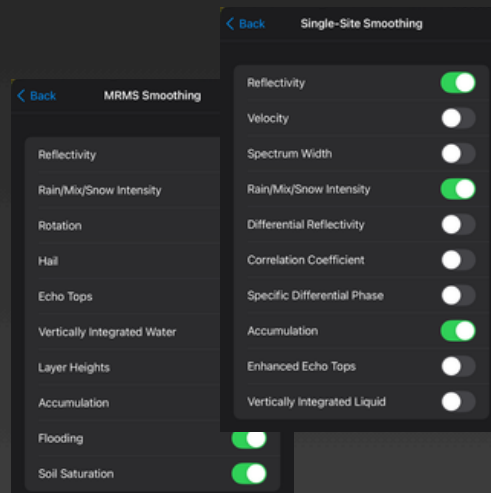


Smoothing

- Set level of smoothing for Single-Site radars and MRMS (national mosaic)
- Select which variables will be smoothed by clicking the adjacent blue circle

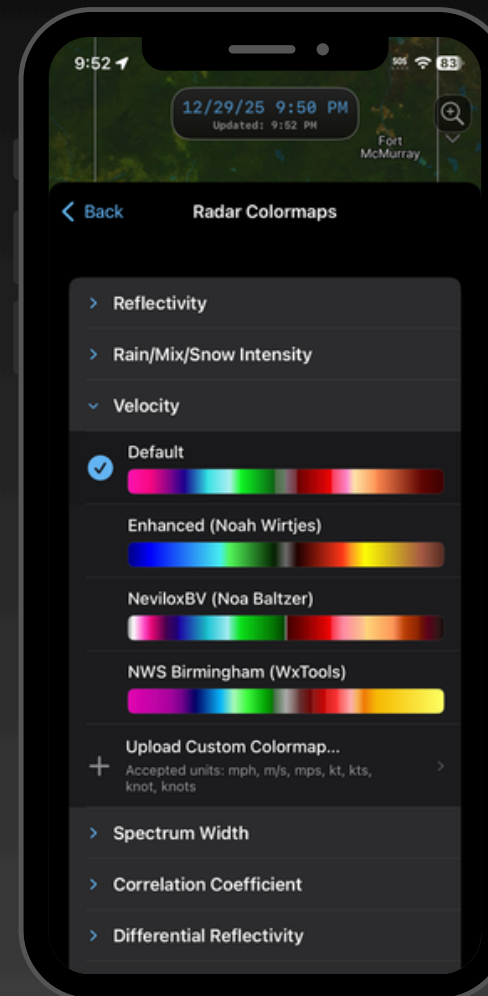
Filter Reflectivity

- Set minimum radar value to display in increments of 10 dBZ from -10 to +40



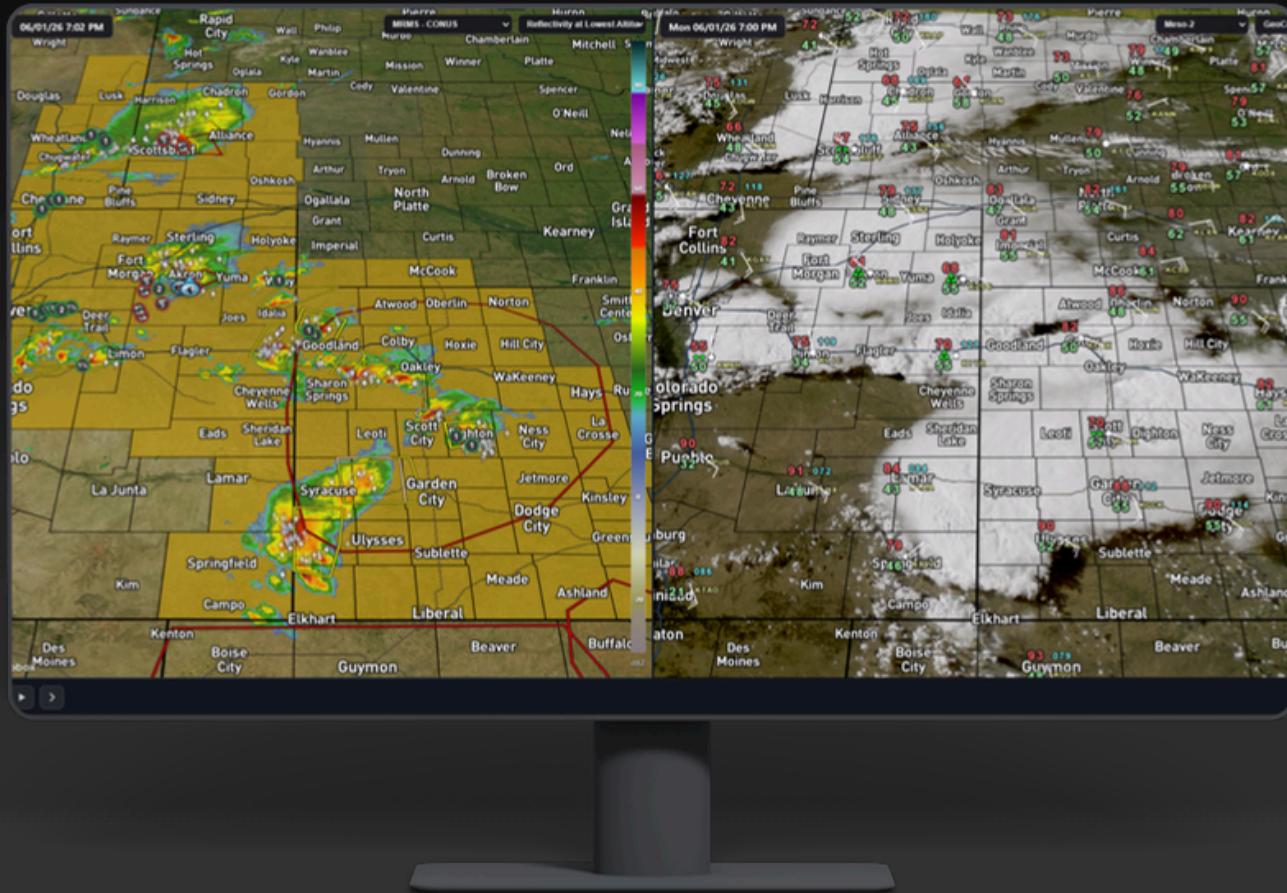
Update Colormaps

- Choose from defaults
- Download new colormaps from links at the bottom of the list
- Upload new colormaps in a .pal format by clicking the plus sign under each variable
- Delete colormaps by swiping left



[Custom Colormap Tutorial Video](#)

Web App Tutorial



WeatherFront

Main User Interface



1. Tools Menu

- A - Display GPS Location
- B - Timing Tool
- C - Draw Tool
- D - Sample Tool
- E - Measure Tool
- F - Radar Selector
- G - Export Tool
- H - Multi-Pane

Login

Sync subscriptions
& save settings

Settings

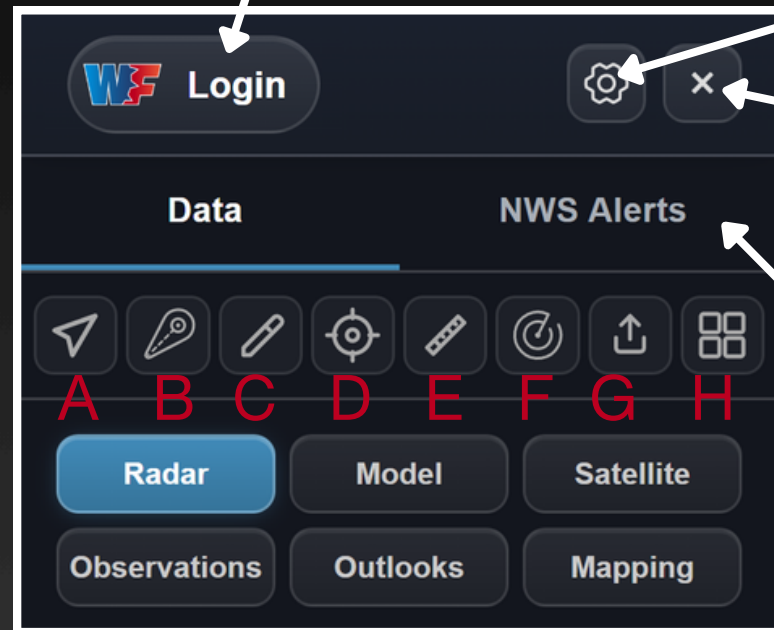
Adjust a variety of
display settings

Exit

Hide User Interface

NWS Alerts

Control settings for
Watches, Warnings,
and Advisories



2. Data Tabs

Choose between: Radar, Model, Satellite, Observations, Outlooks, and Mapping

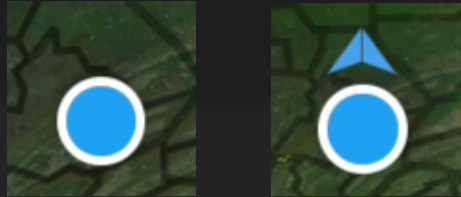
Note: Drag the right side of the menu to widen or narrow the view

Data Tab Overview



A - GPS Locator

1 click = dot
2 clicks = bearing



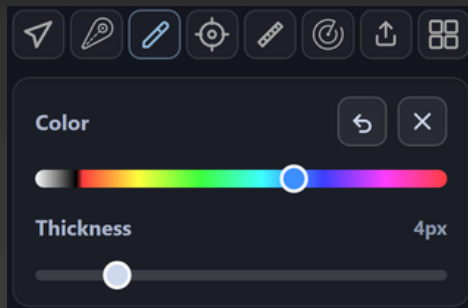
D - Sample Tool

Hover over any data to determine its value



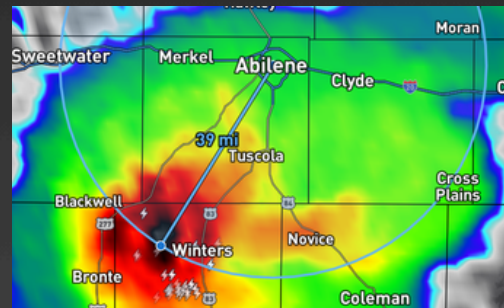
C - Draw Tool

Choose any color and thickness

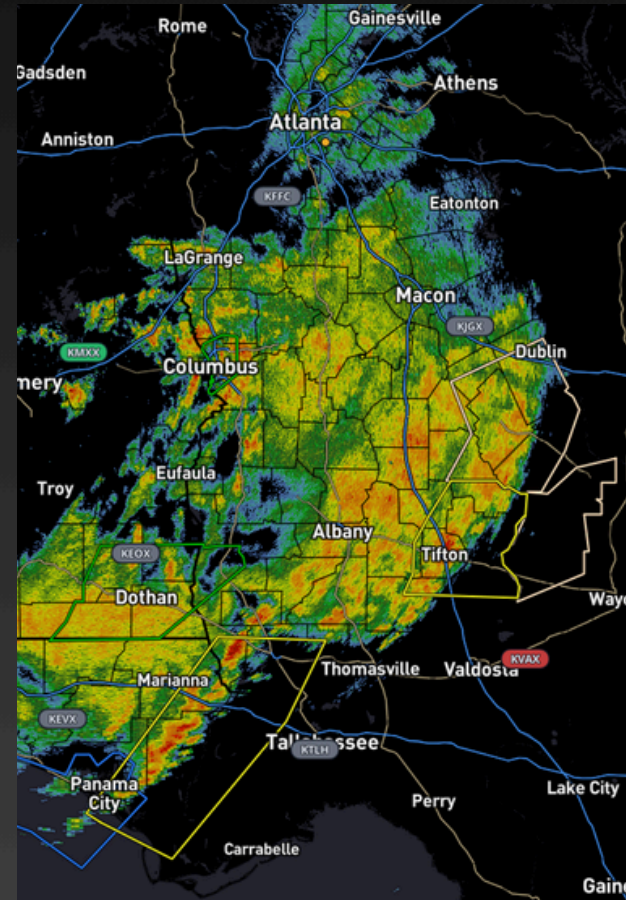


E - Measure Tool

Click & drag to calculate distance



F - Radar Selector



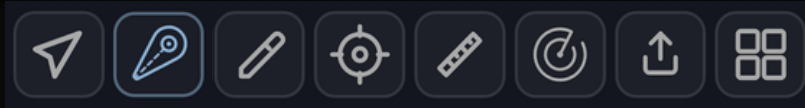
Active Radar

Normal Operation

Radar Outage

Terminal Doppler

Data Tab Overview



Tracking / Time of Arrival Tool

STORM TRACKER

INPUT

Point

Line

Free Draw

MOTION

Drag

Two-Point

Manual

DURATION

30m

1h

2h

3h

4h

6h

CONE SPREAD

24

CITIES

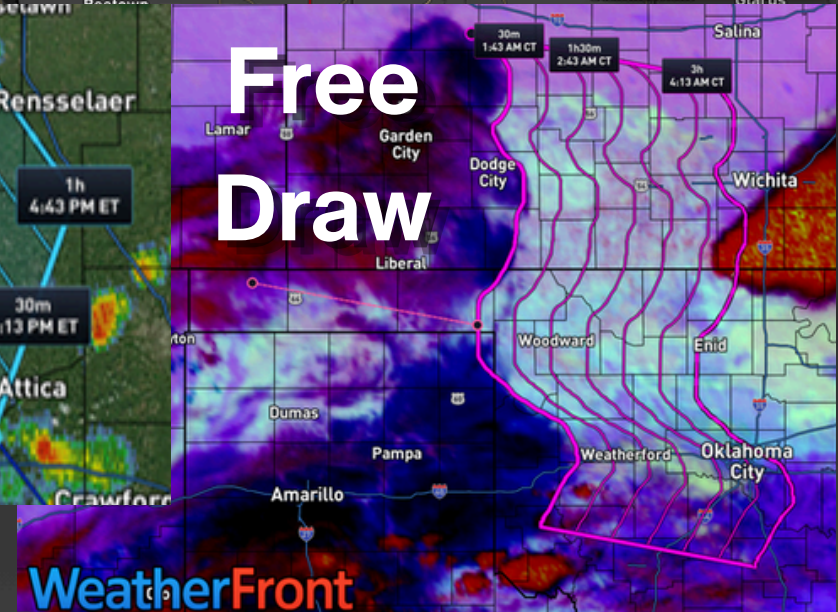
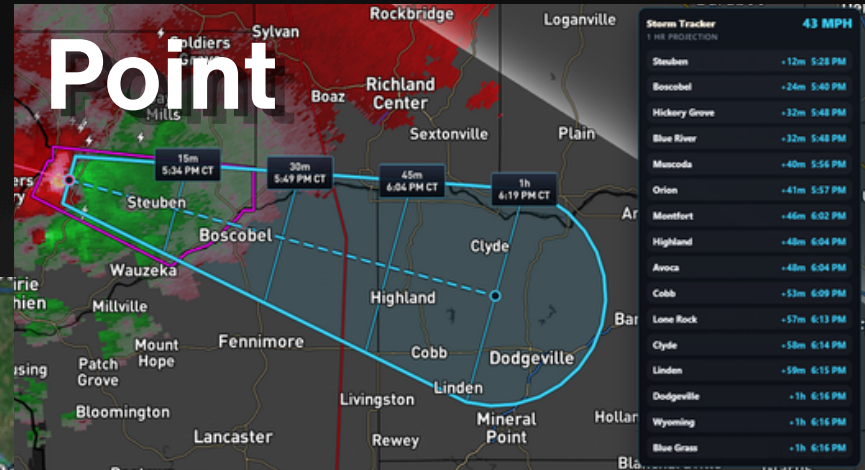
6

COLOR

FILL OPACITY

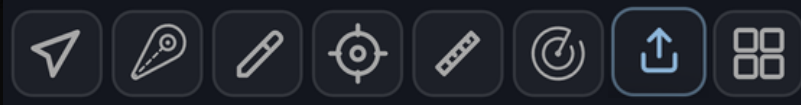
12%

Part of the Advanced subscription package for \$9.99/month or \$99.99/year



WeatherFront

Data Tab Overview



Export Tool

Screenshot

Export Full Loop

Export Clipped Loop

Step 1: Select what you want to export

Must hit play button to enable Loop options

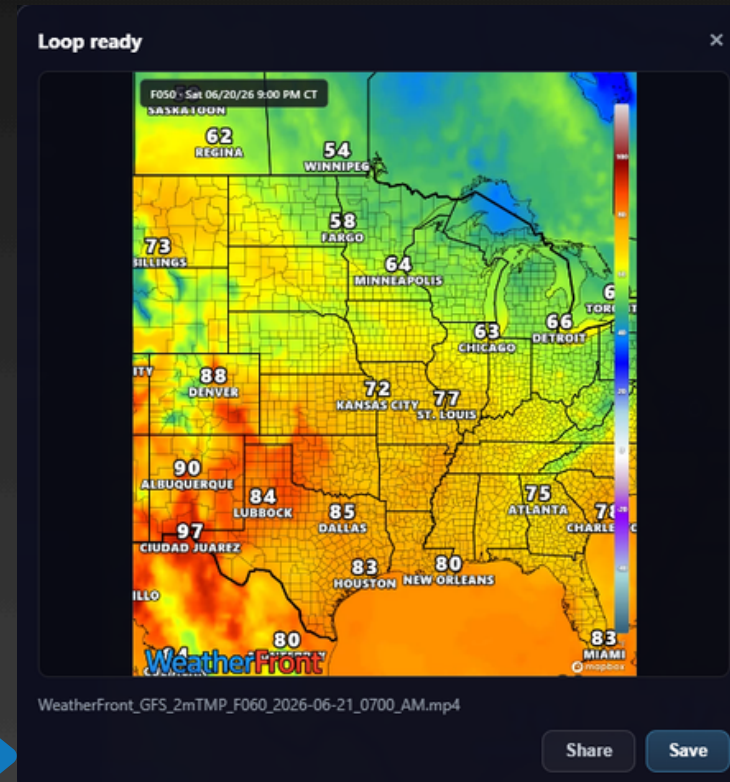
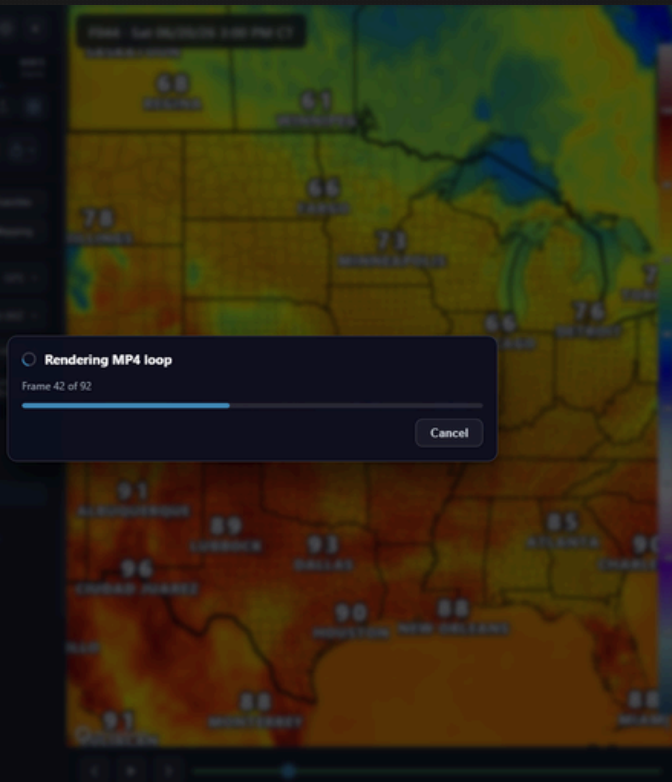
Step 2: Set Loop Start/End Times

If Exporting Clipped Loop

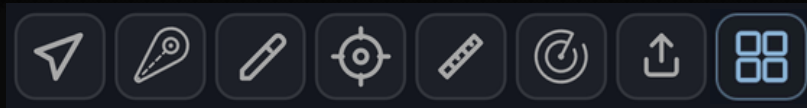


Step 3: Wait for screenshot or loop to export

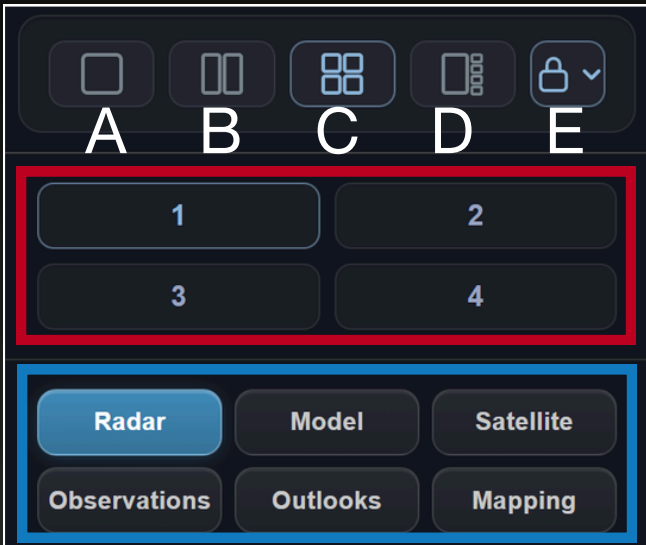
Step 4: Save or Share to any platform



Data Tab Overview



Multi-Pane View

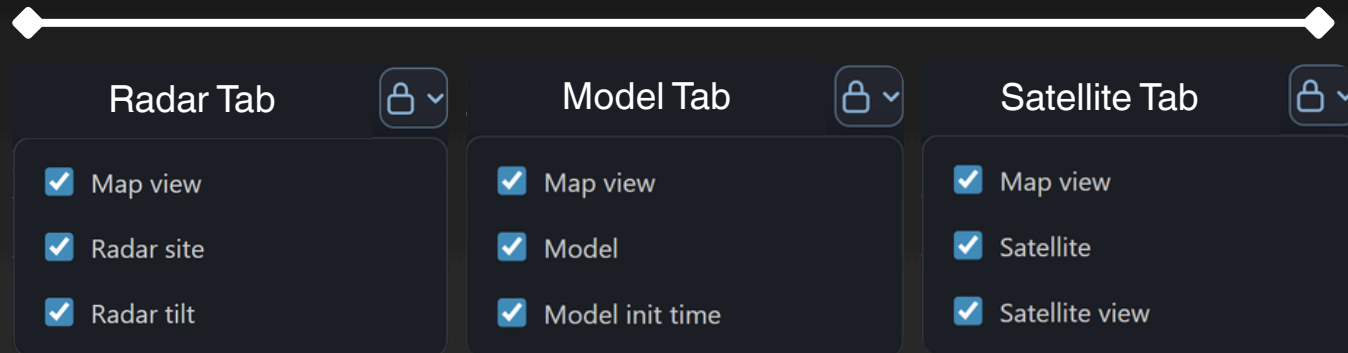


1. Click on each **panel number**
2. Then pick which **data** to display
 - a. You can plot any data on any pane in the WF web app!
3. Toggle locks to optimize your view!

Multi-Panel Options

- A: Single Pane
- B: Dual-Pane
- C: Four-Pane*
- D: AWIPS-style 5 Pane*
- E: Lock View

*Advanced Subscription Required;
Examples on next two slides



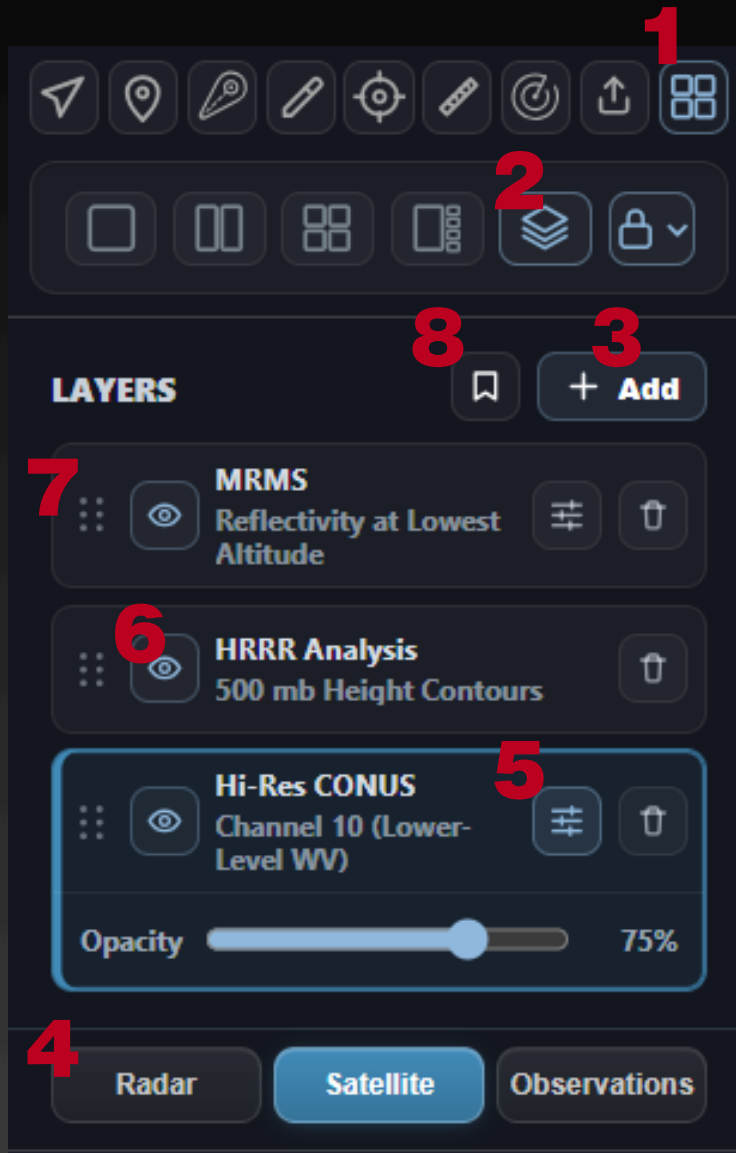
Map view: Move all panes together (☒) or separately (☐)

View the **same radar & tilt** across all panes (☒)
compare multiple radars (☐ Radar site), and/or **sample multiple tilts** at once (☐ Radar tilt)

View the **same model & run** across all panes (☒)
or **compare models** (☐ Model) and/or **compare model runs** (☐ Model init time)

View the **same satellite & domain** across all panes (☒)
or **compare satellites** (☐ Satellite) and/or **compare domains** (☐ Satellite view)

Overlay Mode

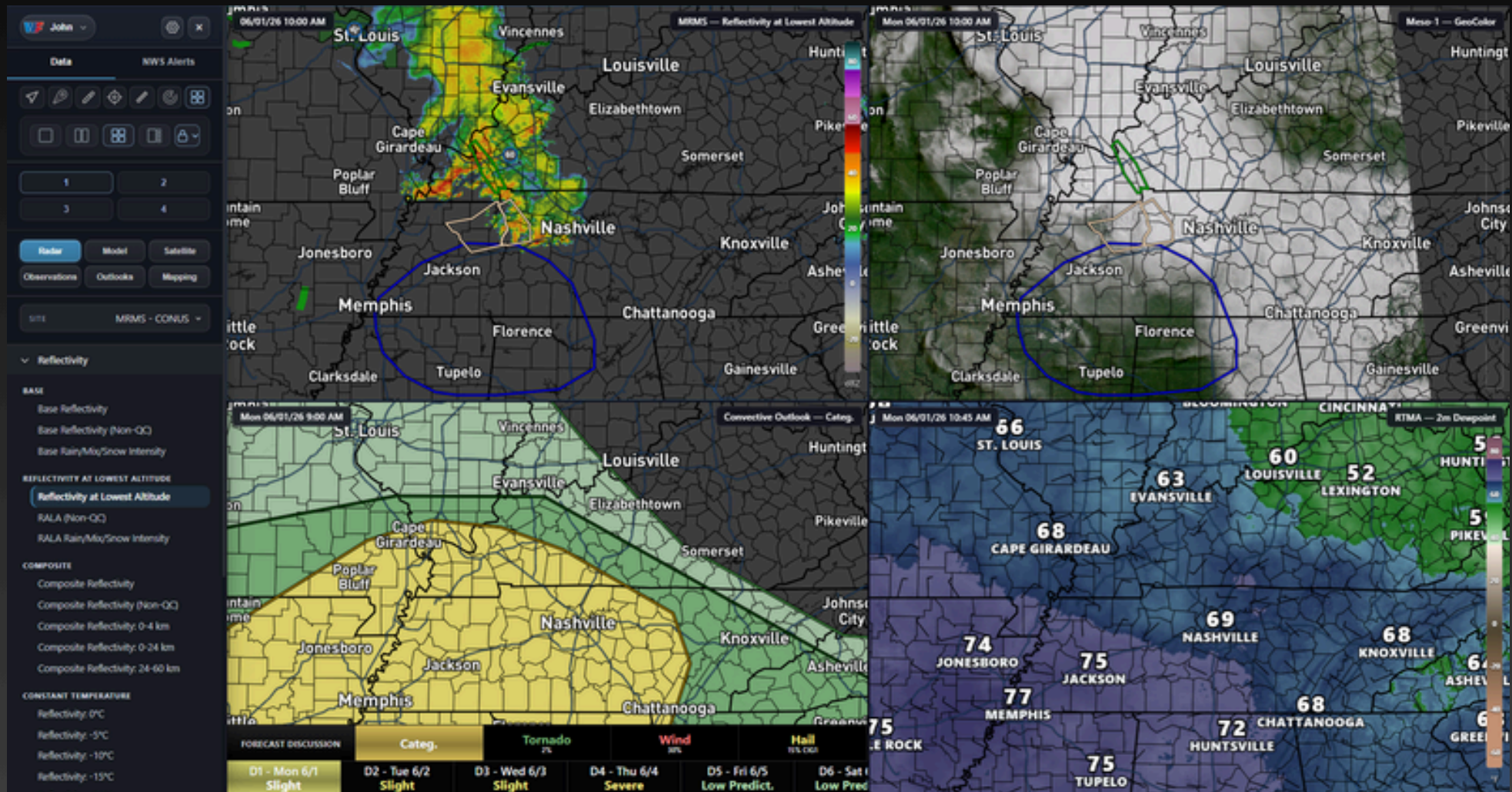


1. Navigate to the Multi-Pane Viewer
2. Turn on Overlay Mode
3. + Add a new layer
4. Choose from any Radar, Satellite, or Observations product
5. Adjust the Opacity of the layer
6. Toggle the layer on or off.
7. Click and drag to change the order of the layers
8. Save any combination of layers for future use on your device.

Main User Interface

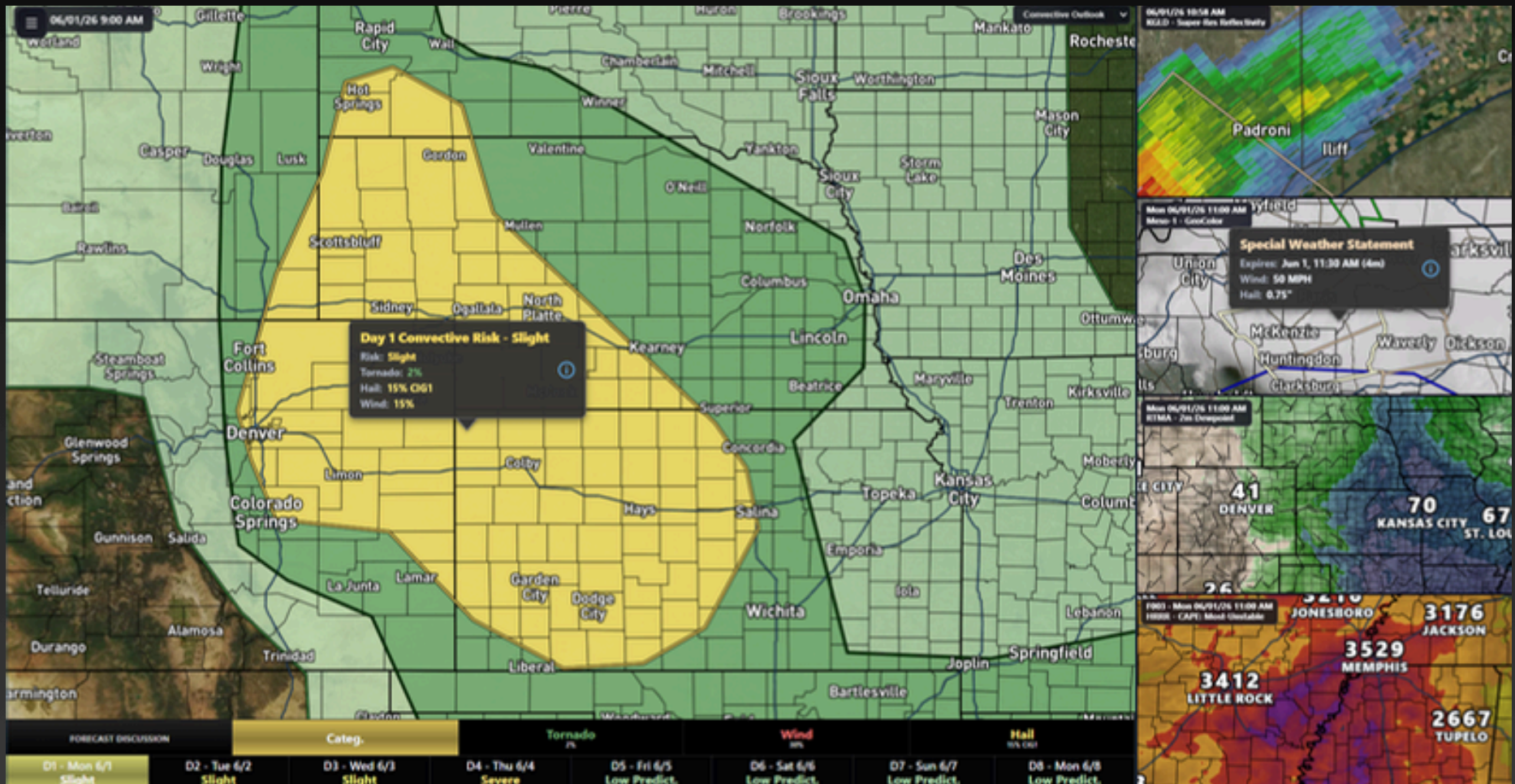


Four-Pane Example



Main User Interface

AWIPS 5-Pane Example



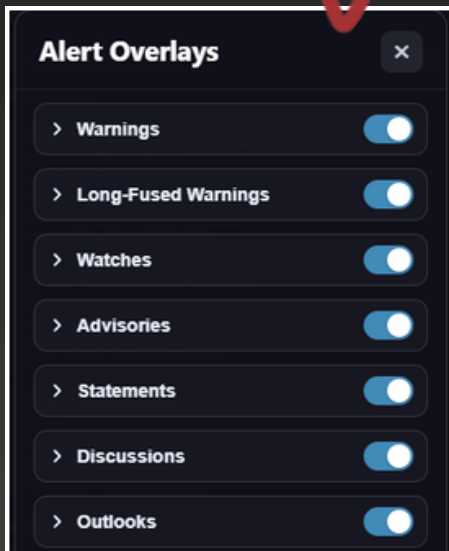
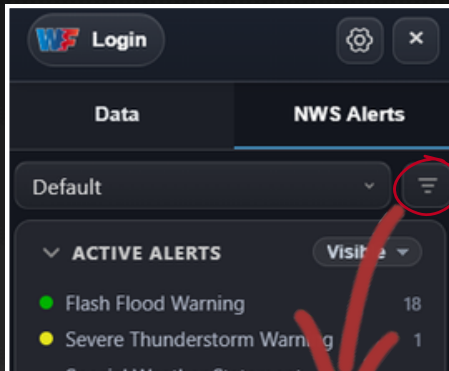
Left click on any of the **right panels** to swap with the **main panel**.

NWS Alert Tab

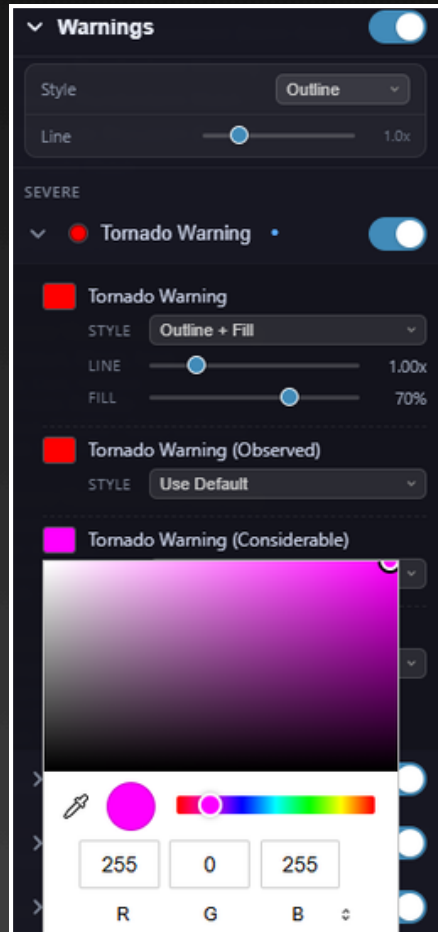


Alert Display Controls

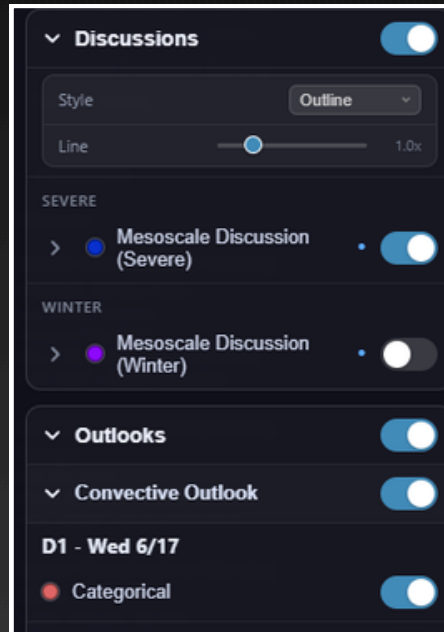
1. Open the NWS Alerts tab & **click** to open Alert Overlays



2. Open each alert type to **customize polygons**



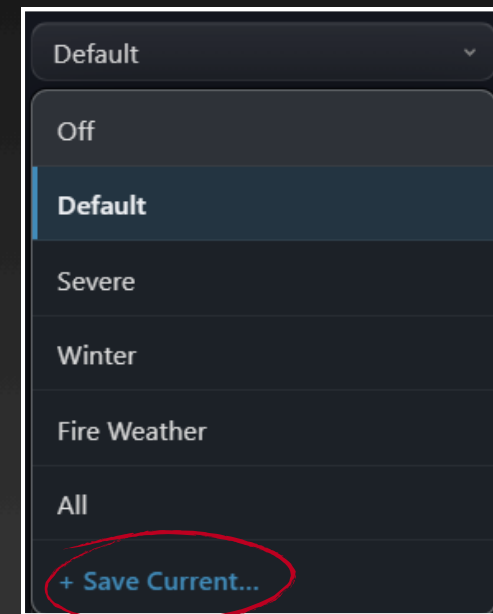
3. Toggle alerts on and off to control what gets overlaid



4. Exit out of the Alert Overlays menu.



5. Click the Default dropdown menu, scroll to the bottom, click **+ Save Current**, and give it a name.



Note that alert settings apply to ALL tabs on the web app.

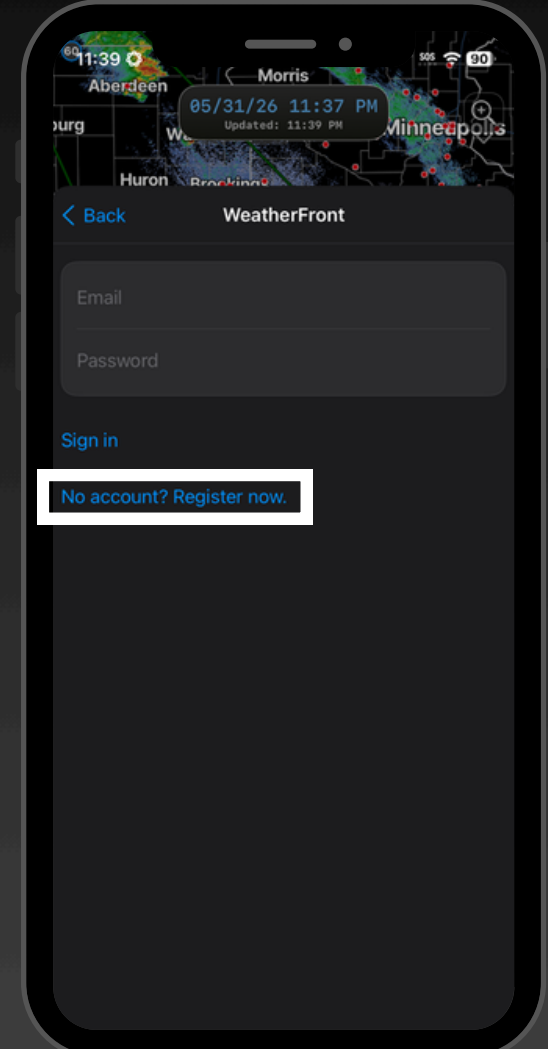
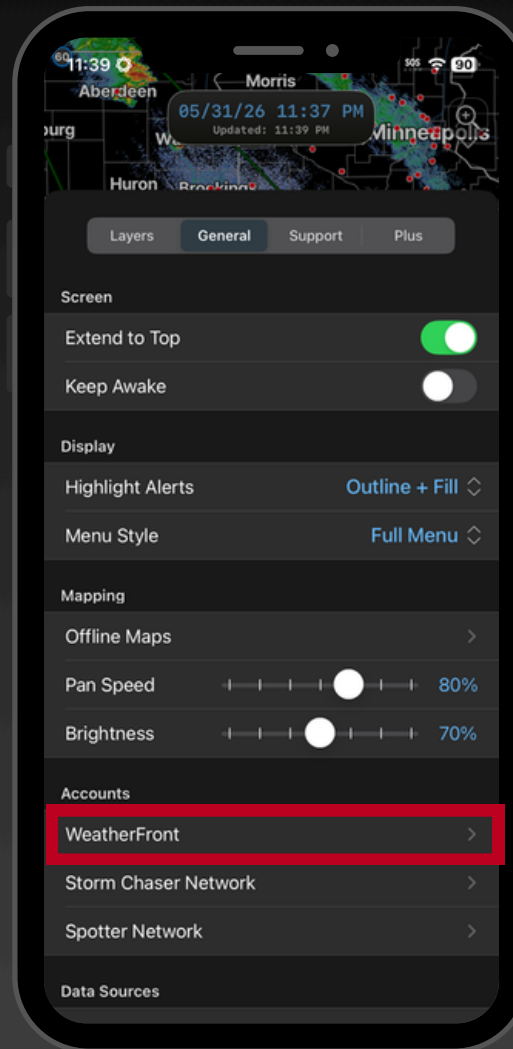
Account Setup & Syncing Across Devices

WeatherFront

WeatherFront Accounts

Creating an Account: iOS/Android

1. Download or Update WF:
 - a. Ensure you've installed *WeatherFront* [v1.22](#) or later
2. Navigate to the **General** tab
 - a. Access the menu using the slider bar icon at the lower right
3. Under the **Accounts** section, select **WeatherFront**
4. Click:
[No account? Register now.](#)
5. Skip to **step 3** on the next page.

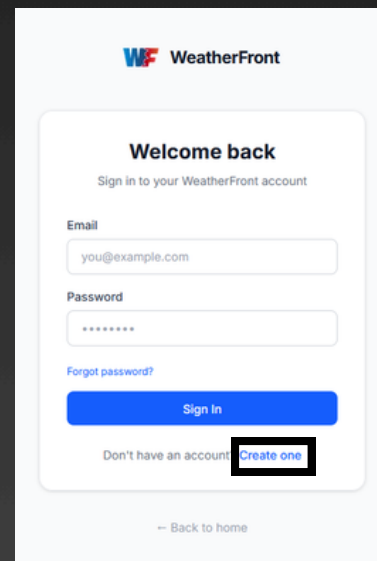
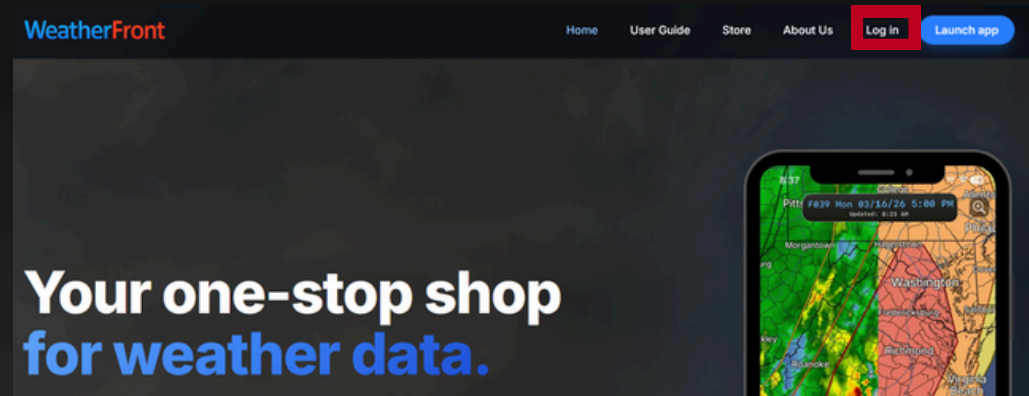
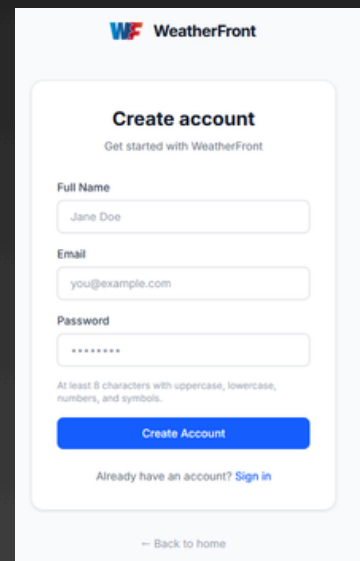


WeatherFront Accounts

Creating an Account: Web

1. Go to www.weatherfront.com
2. Click on **Log In** at the top right
3. Below the Sign In button, next to Don't have an account?
Click: **Create one**
4. Enter your Full Name, Email, and create a Password.
5. Click **Create Account**
6. Check your email for a Verification Code & type it in

CONGRATS! You created an account!

The image shows the WeatherFront Sign In form. It has a header with the WeatherFront logo and the text "Welcome back". Below this, it says "Sign in to your WeatherFront account". There are input fields for Email (with the placeholder "you@example.com") and Password (with a masked password "*****"). A link for "Forgot password?" is located below the password field. A blue "Sign In" button is at the bottom. Below the button, there is a link "Don't have an account? Create one" where "Create one" is highlighted with a black box. At the very bottom, there is a link "Back to home".The image shows the WeatherFront Create Account form. It has a header with the WeatherFront logo and the text "Create account". Below this, it says "Get started with WeatherFront". There are input fields for Full Name (with the placeholder "Jane Doe"), Email (with the placeholder "you@example.com"), and Password (with a masked password "*****"). A note below the password field states "At least 8 characters with uppercase, lowercase, numbers, and symbols." A blue "Create Account" button is at the bottom. Below the button, there is a link "Already have an account? Sign in". At the very bottom, there is a link "Back to home".

WeatherFront Accounts

Cross-Platform Compatibility

Subscription Details:

- A WeatherFront Advanced subscription is \$9.99/month or \$99.99/year
- In order to access all of WF Advanced features on the web app, you'll need to be subscribed either through iOS (App Store) or Android (Play Store).



- An Advanced subscription will NOT port between iOS and Android.



WeatherFront Accounts

Subscription Syncing

1. Once you've signed into your account at www.weatherfront.com/login, navigate to the SUBSCRIPTION section (bottom left)
2. Click on [See how →](#)
3. Choose the platform you'd like to use (Apple or Android)!

SUBSCRIPTION

WeatherFront Free

Subscriptions available on the WeatherFront mobile apps

Subscribe on your mobile device and link to this account to access your Advanced subscription on weatherfront.com.

[See how →](#)

Subscribe on mobile



Apple

iPhone or iPad. Available now.

[Link to Apple →](#)



Android

Phone or tablet. Coming soon.

[Link to Android →](#)

WeatherFront Accounts

Subscription Syncing: iOS/Android

-
1. Get the WeatherFront app on iPhone, iPad, or Android
 2. Choose a subscription plan (annual or monthly)
 - a. In the WeatherFront mobile app, navigate to: Settings > Plus
 - b. If you've already subscribed, you can skip ahead to step 3 to link your subscription.
 3. Link your subscription
 - a. In the WeatherFront mobile app, navigate to: Settings > General > Accounts (WeatherFront)
 - b. Sign in with the email you used to create your account
 - c. Tap Link Subscription.

After linking, WeatherFront Advanced will be active on www.weatherfront.com within a few seconds.

We're working on more content!

In the meantime, check out these resources:



[WF Tutorial Playlist](#)



[Search #WFFeatureFriday on X](#)

Still have questions?

Send an email to support@wxfront.com!

WeatherFront