



AGUACEROWX USER GUIDE

Tropics

The Tropical Cyclones hub puts active storms, official forecasts, ensemble tracks, intensity guidance and aircraft recon in one window. The hurricane models, with their storm-following nests, are in the model picker.

01 Open the tropical cyclone hub

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BEFORE YOU START

- Single-click **Tropical cyclones** on the toolbar to open the hub. Double-click it to turn on the current storms on the map and open the hub.
- The hub has five tabs: **Layers**, **Storms**, **Ensembles**, **Recon** and **Custom**.
- Click a storm on the **Storms** tab for its details and shortcuts to its ensembles, intensity plots, recon and official forecast.
- The hub is not available in radar archive mode.

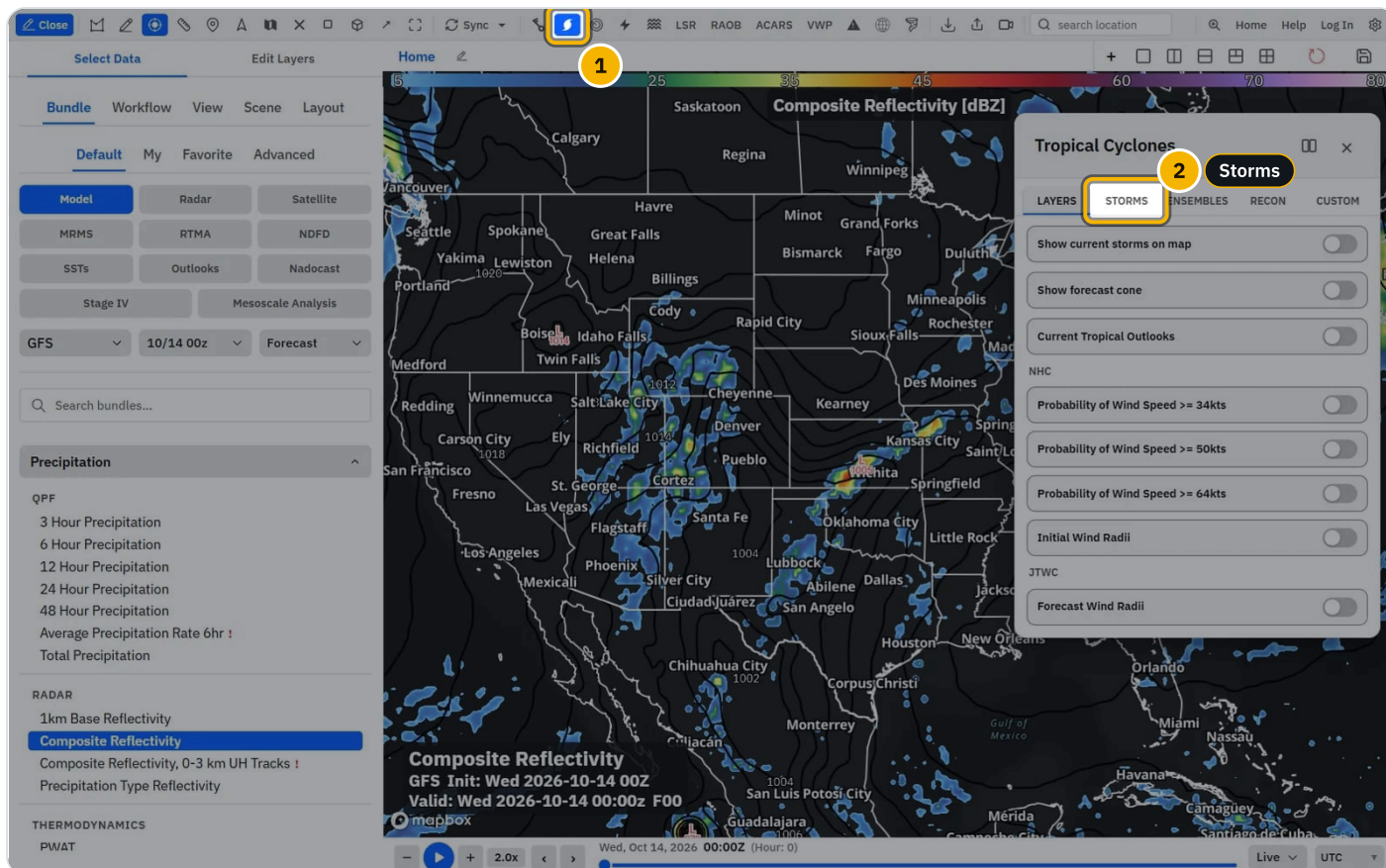
01 Open the tropical cyclone hub

See every active storm worldwide, jump to one on the map, and open its forecasts, models, ensembles and recon from one place.

- 1 Click **Tropical cyclones** on the toolbar.
- 2 Click the **Storms** tab.
- 3 Click a storm card. The map flies to the storm and the hub shows its position, motion, pressure and last update.
- 4 Click **Ensembles**, **Intensity plots**, **Aircraft recon** or **Official forecasts** to open that product for the storm.
- 5 Click the back arrow to return to the list of storms.

TIPS

- Click **Satellite** in a storm's details to add clean longwave infrared from the nearest satellite sector.
- Turn on **Show current storms on map** on the **Layers** tab to plot every active storm.



The Tropical cyclones button and the Storms tab of the hub.

02 NHC and JTWC forecasts

Official forecast cones and tracks, wind speed probabilities and wind radii, with styles you can change and labels you can drag. JTWC covers the Pacific.

- 1 Click **Tropical cyclones** on the toolbar.
- 2 On the **Layers** tab, turn on **Show forecast cone**.
- 3 Under **NHC**, turn on a wind speed probability or **Initial Wind Radii** if you want them. Under **JTWC**, turn on **Forecast Wind Radii**.
- 4 To restyle the cone, open the **Custom** tab and click **Current Cone**.
- 5 Change the **Forecast cone**, **Tracks** and **Position markers** settings.
- 6 Drag a forecast point label on the map to move it. Double-click it to put it back.

TIPS

- Choose the rows the storm popup shows in Settings, under **Appearance, Feature popups, Tropical popup fields**.
- **Official forecasts** in a storm's details turns on the cone for that storm.

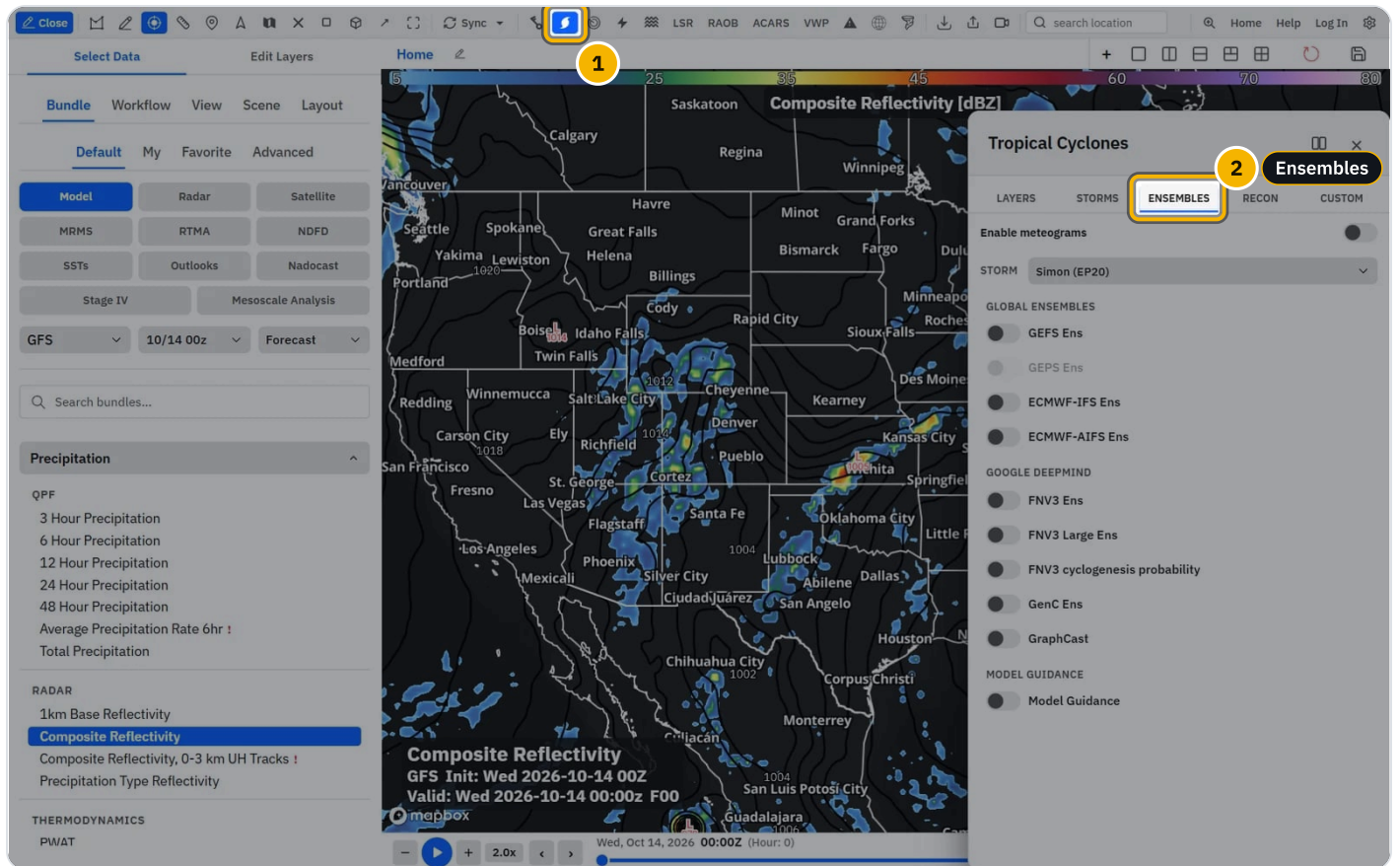
03 Ensemble tracks

Spaghetti plots from GEFS, GEPS, ECMWF and Google DeepMind ensembles, with a name and color for each model.

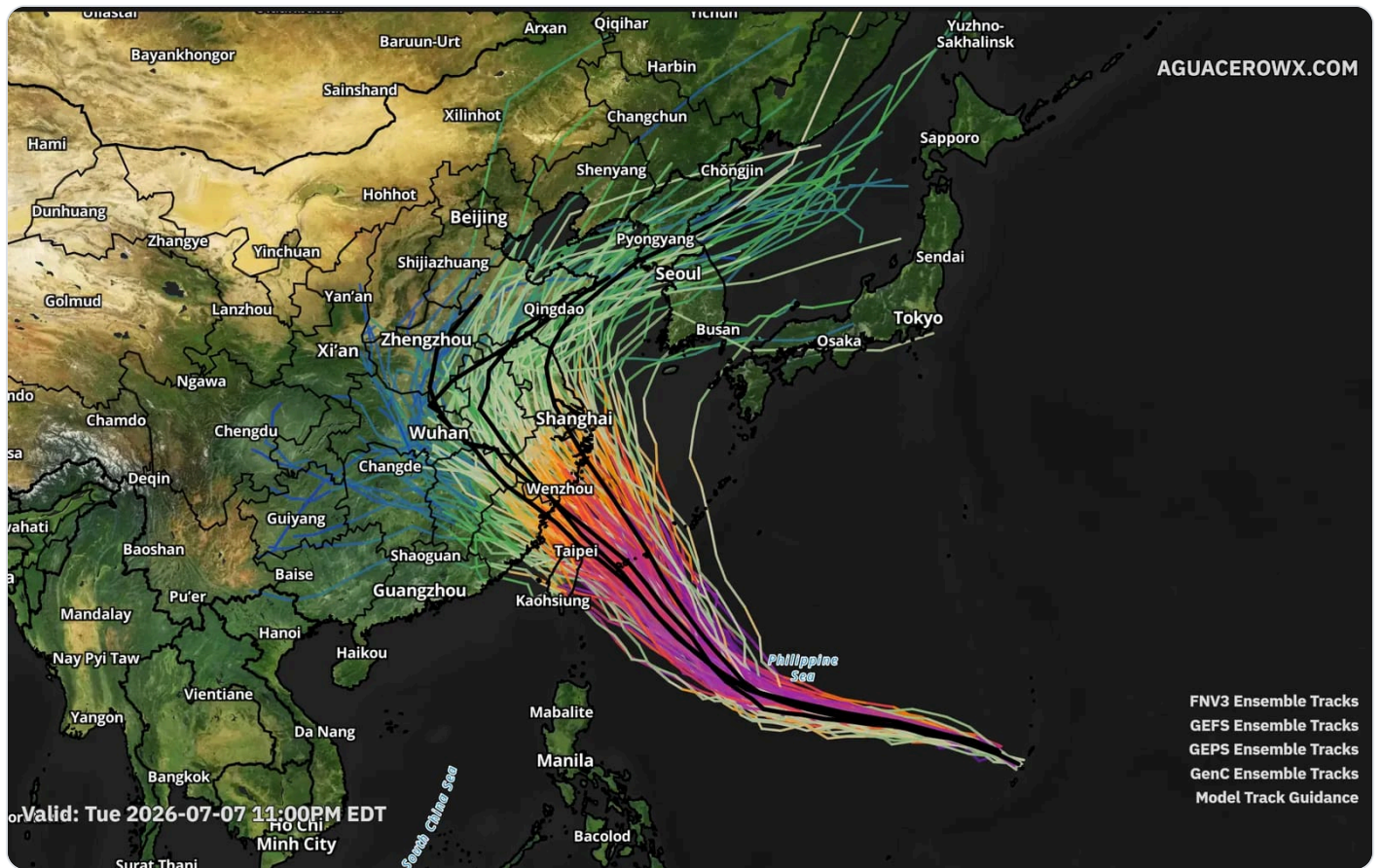
- 1 Click **Tropical cyclones** on the toolbar.
- 2 Click the **Ensembles** tab.
- 3 Pick the storm under **Storm**.
- 4 Turn on one or more products, such as **GEFS Ens**, **GEPS Ens**, **ECMWF-IFS Ens** or **FNV3 Ens**.
- 5 Pick a run from the menu next to a product if you want an earlier one.
- 6 Under **Track Type**, color the tracks by wind, pressure, lead time or model, or switch to a probability view.

TIPS

- **Model names** labels each track with its model. **Ensemble mean** and **Mean only** add or keep the mean track.
- **Clip to slider time** draws each track only up to the time on the slider.



The Ensembles tab of the Tropical Cyclones hub.



Ensemble track guidance for a typhoon approaching eastern China.

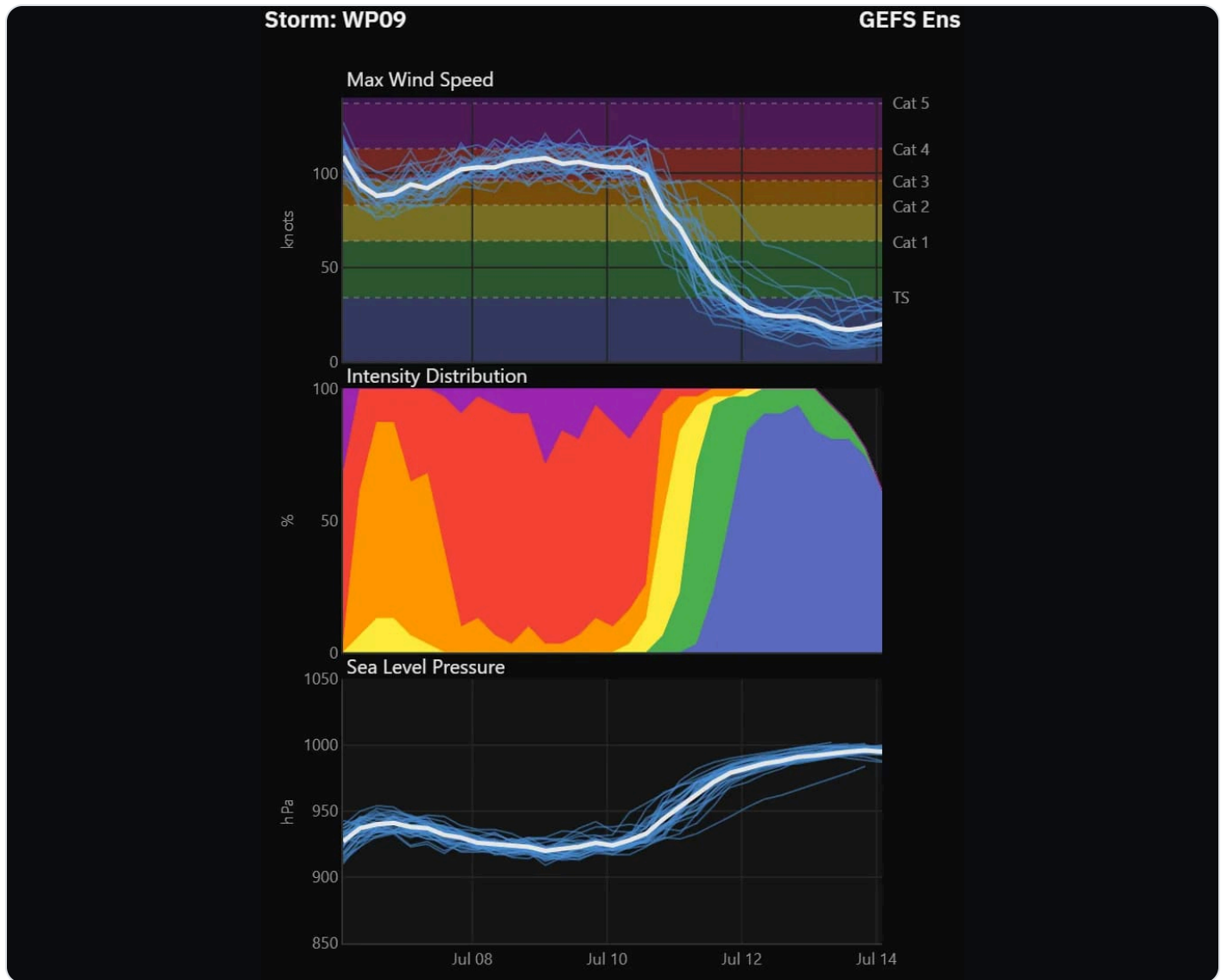
04 Intensity graphs

Ensemble maximum wind, sea level pressure, intensity distribution and 24-hour wind change for each storm.

- 1 Click **Tropical cyclones** on the toolbar.
- 2 On the **Storms** tab, click a storm.
- 3 Click **Intensity plots**. The charts open docked under the map.
- 4 Use the menus at the top of the charts to switch the storm, product or run.

TIPS

- You can also turn on **Enable meteograms** on the **Ensembles** tab.
- Right-click a chart to copy or download it, or all of them at once.



A GEFS intensity graph with maximum wind, intensity distribution and pressure.

05 Recon and dropsondes

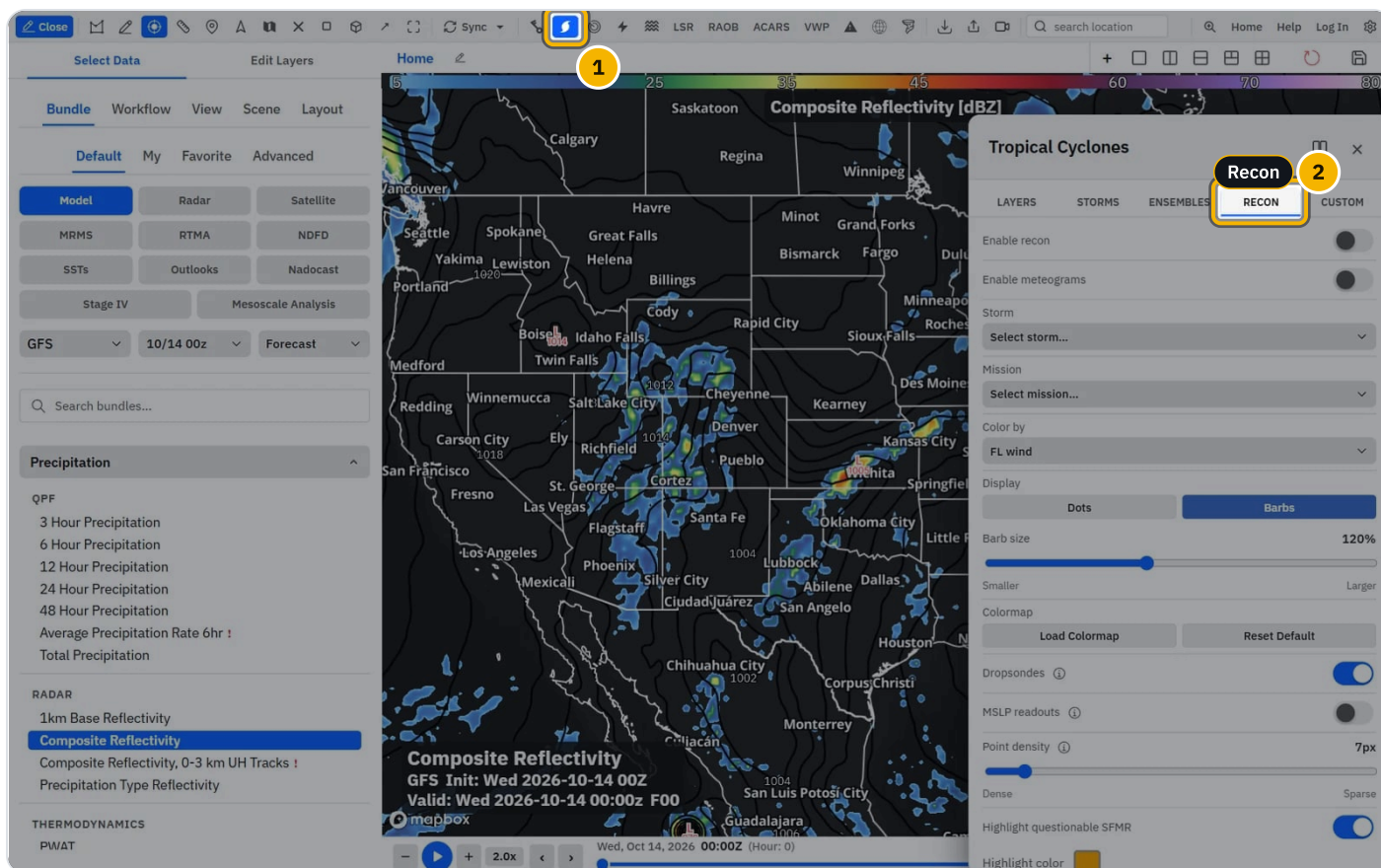
Hurricane Hunter flight data and dropsonde observations on the map, colored by the field you pick.

- 1 Click **Tropical cyclones** on the toolbar.
- 2 Click the **Recon** tab.
- 3 Turn on **Enable recon**.
- 4 Pick a **Storm**, then a **Mission**.
- 5 Choose a field under **Color by**, and **Dots** or **Barbs** under **Display**.

- 6 Click a dropsonde marker on the map to open it in the sounding viewer.

TIPS

- Turn on **Enable meteograms** for charts of flight-level wind, pressure and temperature along the flight.
- **Remove recon** takes the flight off the map. **Reset all** also restores the default settings.



The Recon tab of the Tropical Cyclones hub.

Barbs work only when you color by **FL wind** or **SFMR wind**.

06 Hurricane models ENTHUSIAST

HAFS-A, HAFS-B, HWRF and HMON for each active storm, with hurricane diagnostics such as maximum potential intensity and shear.

- 1 Open the sidebar and click the model menu, which shows the current model's name, to open the model picker.

- 2 Type the model name in **Search models...**, or open the **Hurricane** category.
- 3 Under **HAFS-A**, **HAFS-B**, **HMON** or **HWRF**, click the storm, for example **09L**.
- 4 Add hurricane fields such as **Maximum Potential Intensity** or **200-850mb Bulk Shear** with **Add Layer**.
- 5 To keep the map on the storm, turn on **Hurricane storm following** in Settings under **Data, Model**.

Needs Enthusiast or higher. Each model is listed only while it runs for an active storm. Storm following needs you to be signed in.