AGUACEROWX USER GUIDE

Drawing and analysis tools

These tools let you read values straight off the map, measure distances, sketch on the map, draw full forecast maps and mark the places you care about. They work on every plan.

01 Mouse readouts

02 Ruler

03 Drawing

04 PGEN forecast maps

05 Name markers

06 My location

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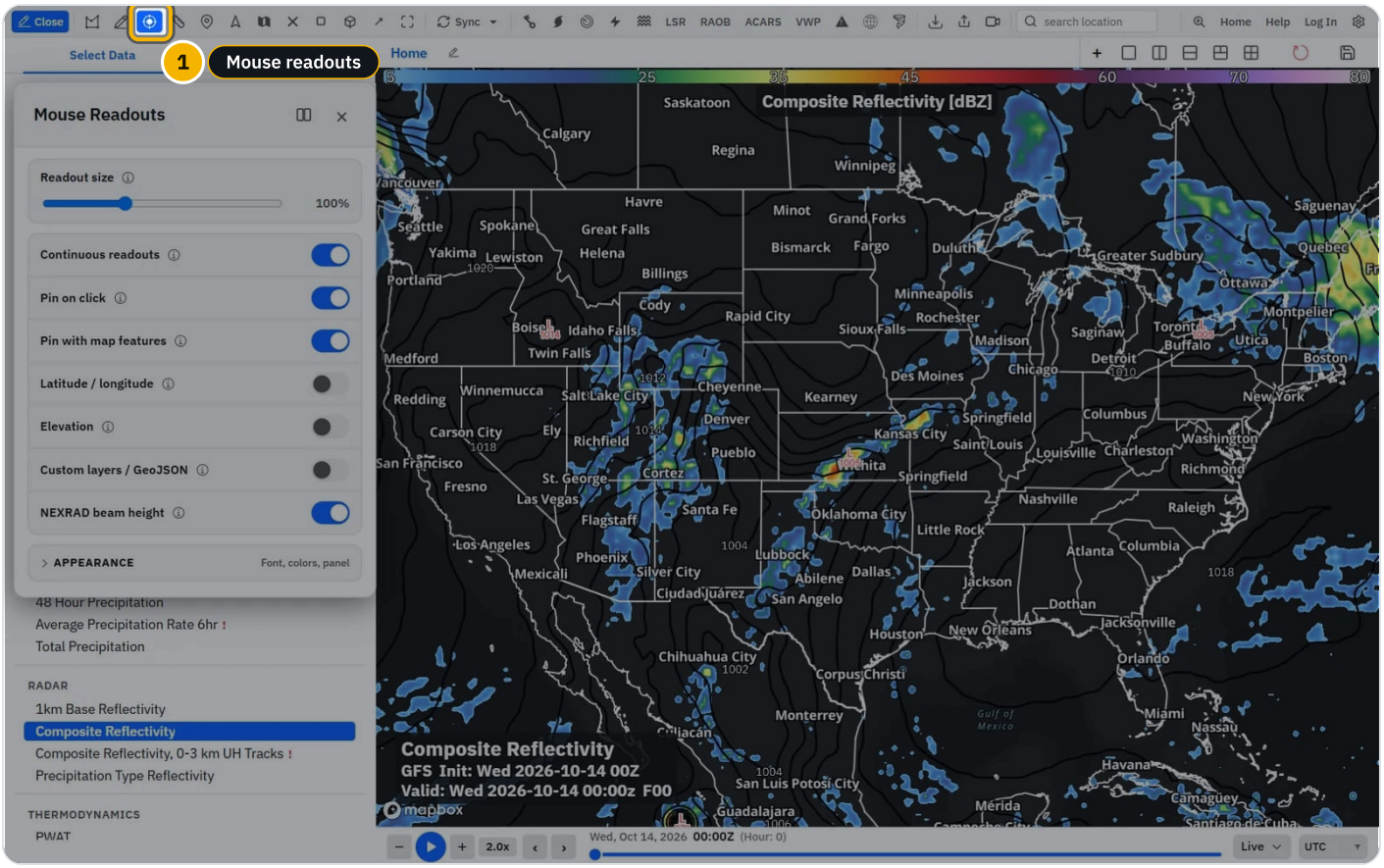
BEFORE YOU START

- The tools sit together on the toolbar, right after the **Edit:** button (it shows the bundle's name): **PGEN**, **Drawing**, **Mouse readouts**, **Ruler**, **Name markers** and **My location**.
- Several of these buttons do two things. A single click opens the tool's settings, and a double-click turns the tool on or off.
- You can bind a key to most tools in **Settings** → **Keyboard shortcuts** → **Map & tools**.

01 Mouse readouts

See the value of every layer under the cursor as you move the mouse, with coordinates and elevation if you want them. Pin a readout to keep it on the map.

1. Single-click **Mouse readouts** on the toolbar to open its settings.
2. Make sure **Continuous readouts** is on. Double-clicking the toolbar button also turns it on or off.
3. Turn on any extras you want: **Latitude / longitude**, **Elevation**, **NEXRAD beam height** or **Custom layers / GeoJSON**.
4. Move the cursor over the map. The readout lists each layer's value at that point.
5. Click the map to pin the readout there as a popup.



The Mouse readouts button opens its settings with a single click.

TIPS

- To pin only when you mean to, turn **Pin on click** off and use `Alt` + `Shift` + click instead. That combo pins even on warnings and other map features.
- Open **Appearance** in the same settings to change the readout font, colors and panel, and use **Readout size** to scale it.

SHORTCUTS

`Alt` + `Shift` + click	Pin a mouse readout
`Backspace`	Remove the most recent pinned readout on the active panel
`Shift` + `Backspace`	Clear every pinned readout on the active panel

02 Ruler

Measure the distance and bearing between two points on the map, with a range circle around the start point.

1. Double-click **Ruler** on the toolbar. The cursor turns into a crosshair.
2. Press on the map at the start point and drag to the end point.
3. Release. The line stays on the map with its distance and bearing, and a range circle shows that distance around the start point.
4. Drag again to measure something else. The previous line clears.
5. Double-click **Ruler** again to stop measuring.

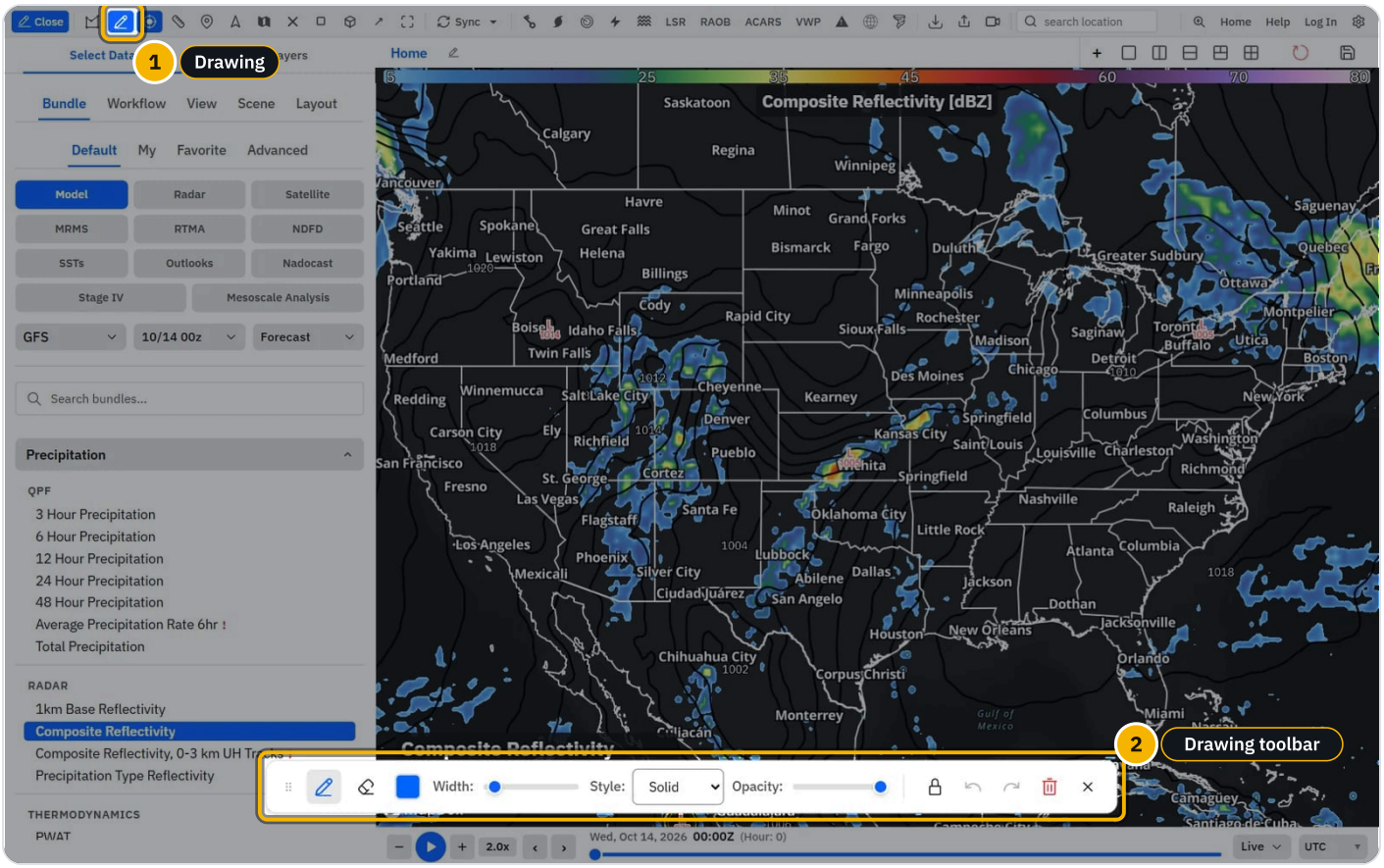
TIPS

- Single-click **Ruler** to open its settings. **Units** offers **Match app units**, **Miles**, **Kilometers** and **Nautical miles**.
- In the same settings you can change the **Line style**, **Line color** and **Line width**, and turn **Range circle**, **Endpoint dots** and **Show bearing** on or off.

03 Drawing

Draw freehand on the map to circle a storm, sketch an arrow or mark a path, then erase or undo as you go.

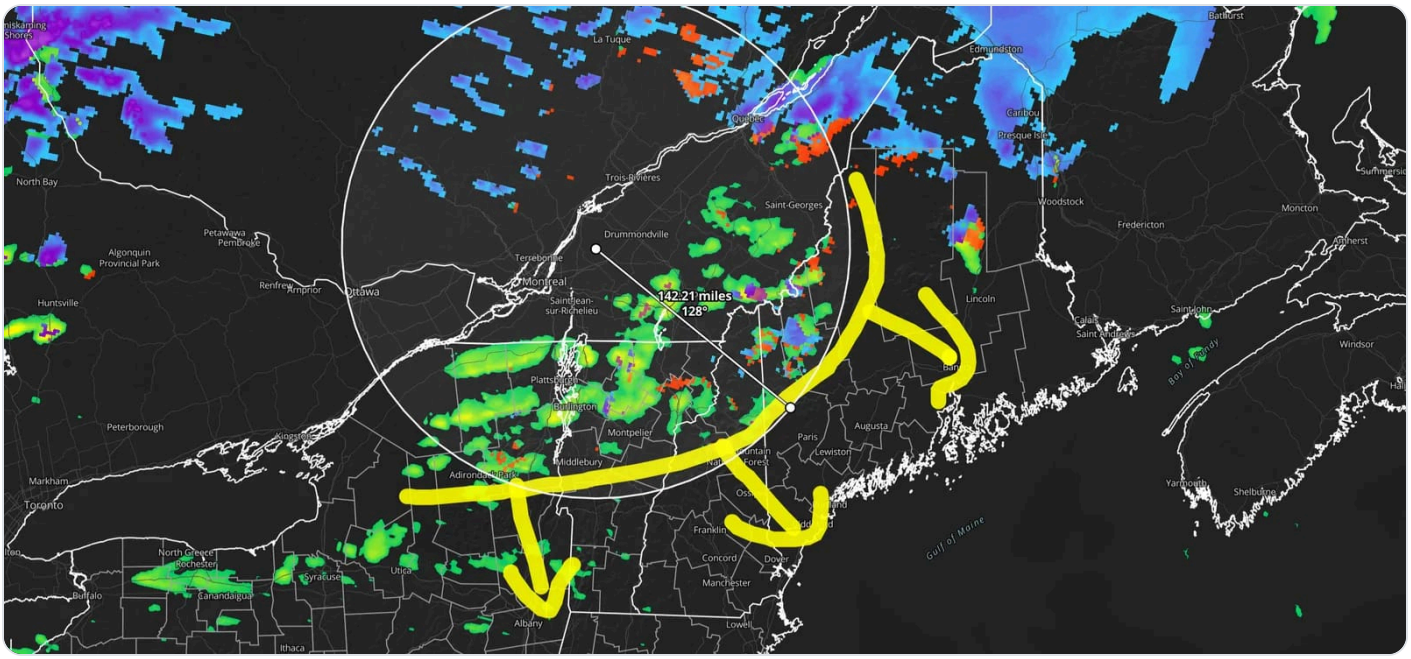
1. Click **Drawing** on the toolbar. The drawing toolbar appears over the map.
2. Choose **Pen**, pick a color, then set **Width**, **Style** (**Solid**, **Dashed** or **Dotted**) and **Opacity**.
3. Press and drag on the map to draw.
4. To fix a mistake, choose **Eraser** and drag over the line, or click **Undo** and **Redo**.
5. Click the lock button to switch between drawing (**Lock to Draw**) and moving the map (**Unlock to Pan Map**).
6. Click **Clear All** to remove every drawing, or **Close Drawing** to put the tool away.



The Drawing button and the drawing toolbar it opens over the map.

TIPS

- Drag the grip on the left edge of the drawing toolbar to move it out of the way.

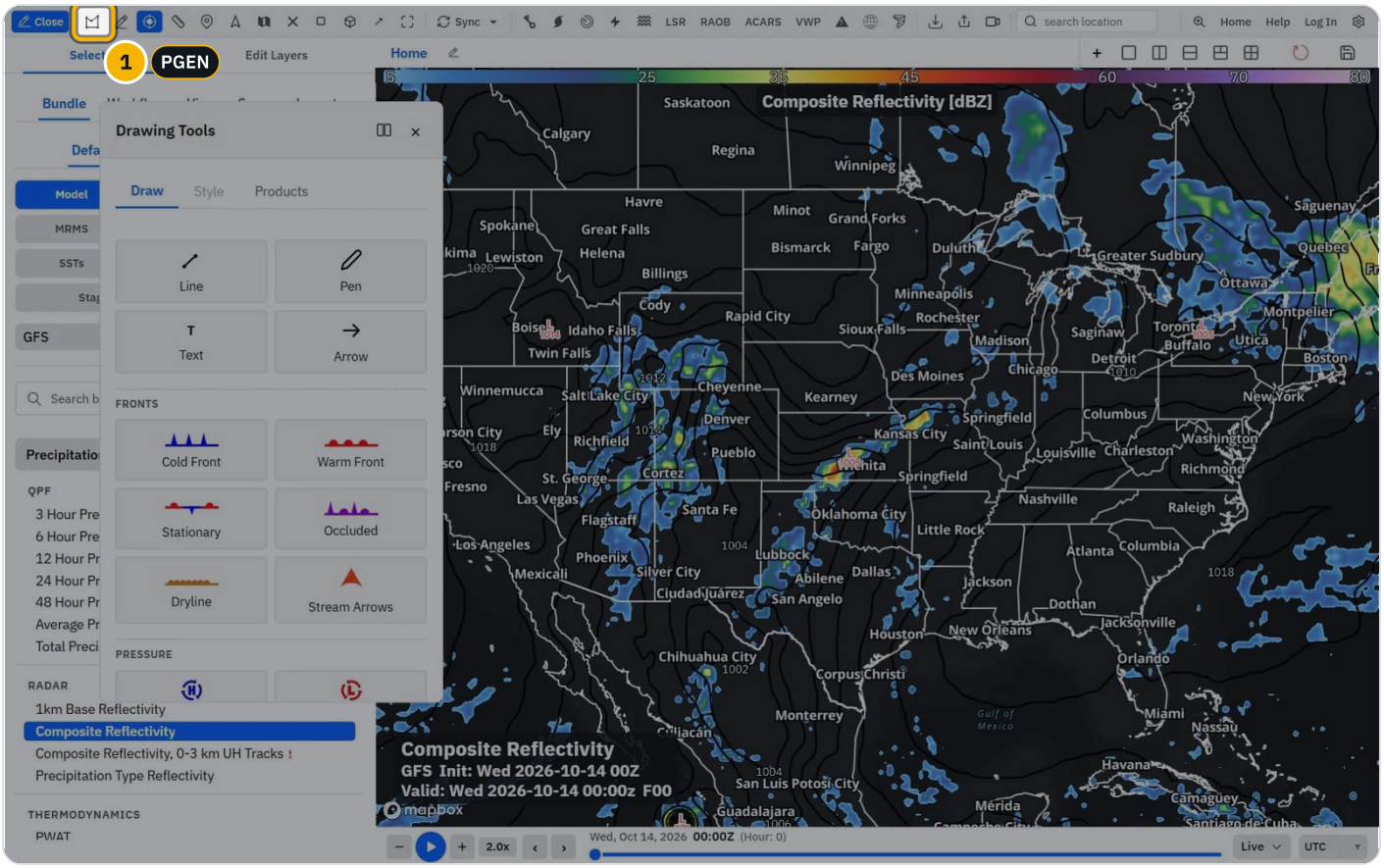


Freehand arrows and a ruler range ring drawn over radar.

04 PGEN forecast maps

PGEN (Product Generation) draws formal forecast graphics: fronts, highs and lows, hatched areas, storm icons, shapes and text. Save each map as a product and load it again later.

1. Click **PGEN** on the toolbar. The **Drawing Tools** window opens on the **Draw** tab.
2. Pick a tool. **Line**, **Polygon**, **Arrow** and the **Fronts** tools draw paths. **Text**, **High (H)**, **Low (L)**, **Hurricane**, **Fire** and **Rotating Storm** place a symbol. **Shapes** draw a rectangle, circle, ellipse or triangle.
3. For a path, click points along it on the map, then double-click or press `Enter` to finish. With **Polygon**, click the first point again to close the area.
4. For a symbol or text, click the map where it goes. For a shape, drag on the map.
5. Click a feature on the map or in the **Layers** list, then use the **Style** tab to change its colors, line, fill, **Hatch Pattern** and shadow.
6. Type a **Product Name** and click **Save New**. After later changes, click **Update**.
7. Open the **Products** tab to load or delete a saved product.



The PGEN button opens the Drawing Tools window.

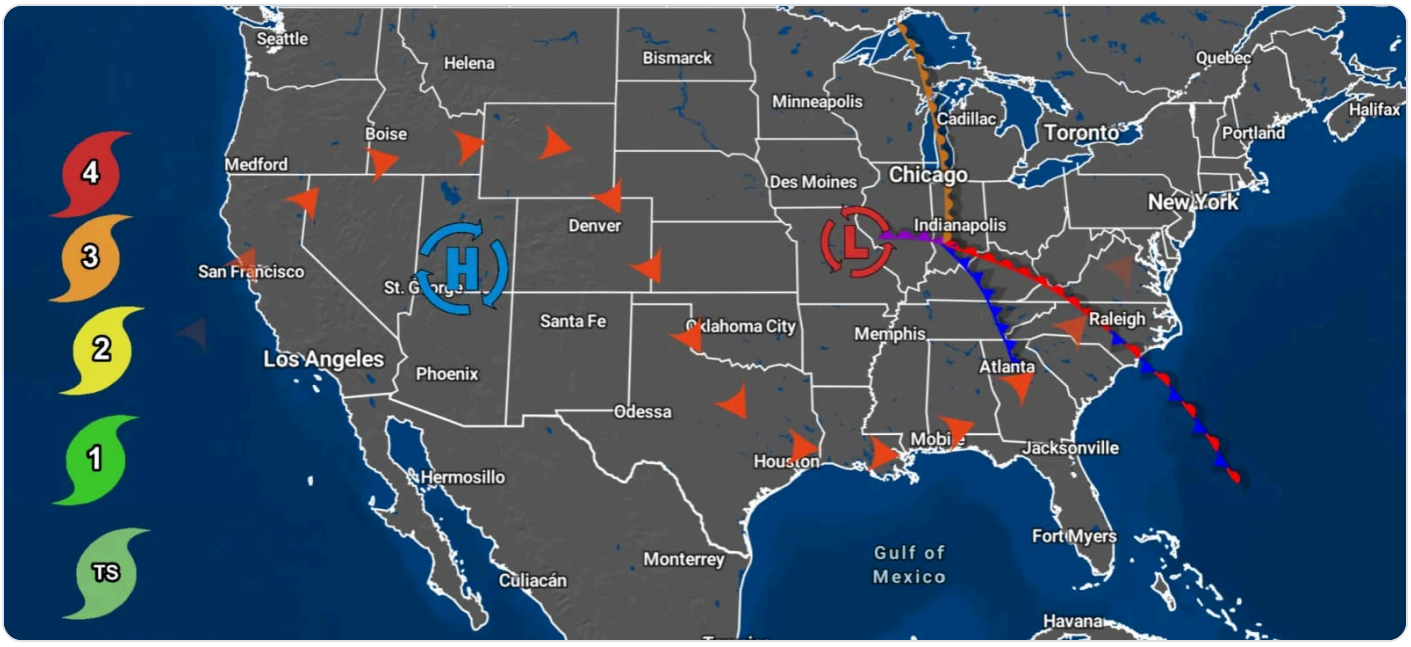
TIPS

- Double-click text on the map to edit it. Drag a corner to resize it.
- Under **Layer Position**, turn on **Fills above other layers** or **Fills behind water** to change where filled areas draw.
- Use the arrows in the **Layers** list to change the drawing order. **Clear All** removes everything on the map.

SHORTCUTS

`Enter`	Finish the line, front or area you are drawing
`Backspace`	Remove the last point while drawing
`Esc`	Cancel the line or shape you are drawing
`Delete`	Delete the selected feature

Saving products needs a signed-in account. Uploading your own images under **Images** needs Professional or above.

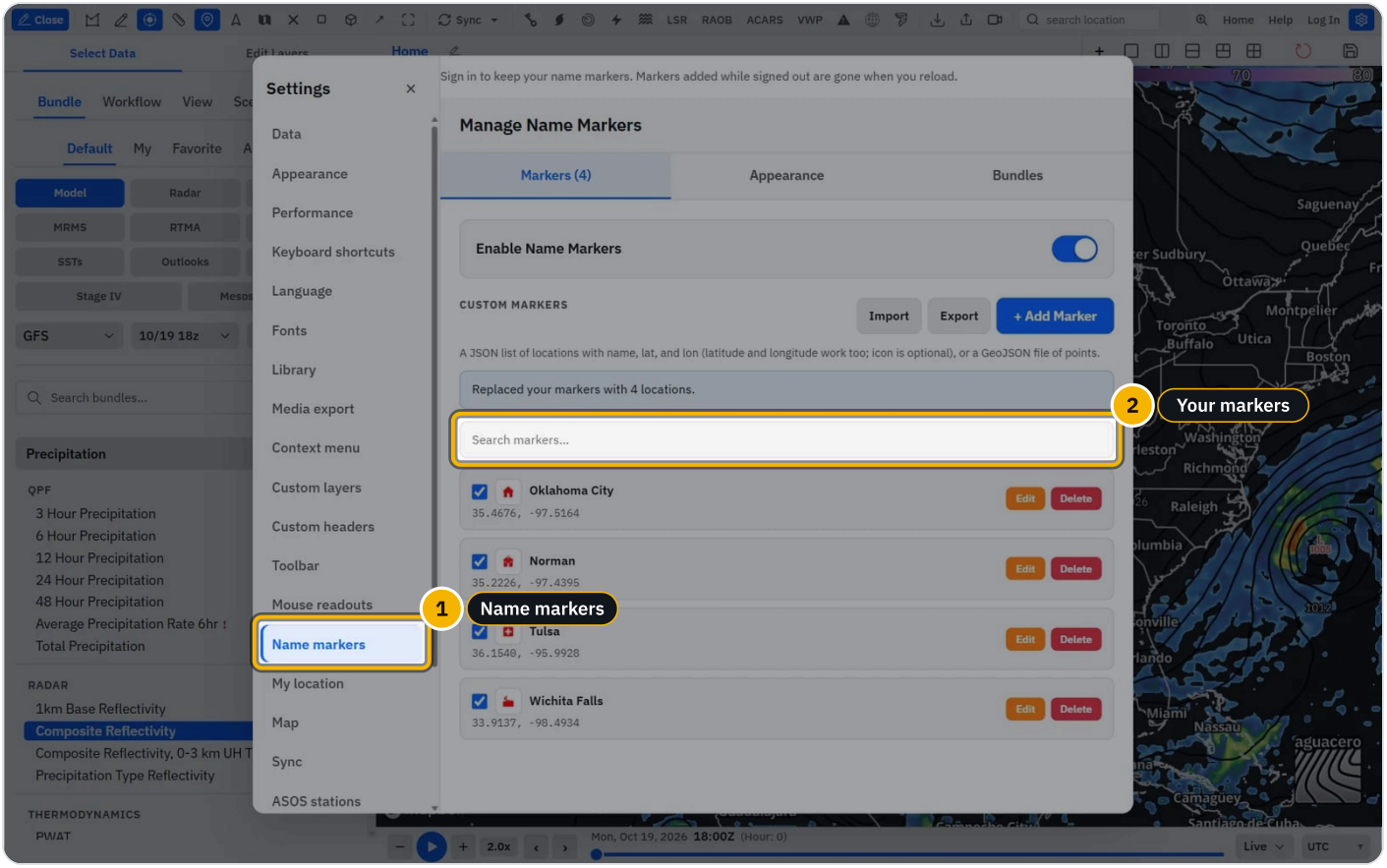


A PGEN map with fronts, high and low centers and hurricane category icons.

05 Name markers

Add your own labeled places to the map, such as your town, a chase target or client sites, with icons and live data readouts.

1. Single-click **Name markers** on the toolbar to open **Manage Name Markers**.
2. Turn on **Enable Name Markers**.
3. Click **+ Add Marker** and type a name.
4. Under **Location**, search for an address or enter coordinates such as 40.7128, -74.0060.
5. Pick an icon, then click **Add Marker**.
6. Open the **Appearance** tab to set the font, colors and icon size. **Show data readouts at markers** (on by default) puts values at your markers when a layer's point readouts are set to **City**.



Manage Name Markers, opened here from Settings → Name markers. A single click on the toolbar button opens the same panel.

To add many places at once, click **Import** and choose a JSON file. Each entry needs a name, lat and lon (latitude and longitude also work), and icon is optional. A GeoJSON file of points works too. Then choose **Add to list** or **Replace all**. **Export** saves your list as a JSON file.

TIPS

- Double-click **Name markers** on the toolbar to show or hide all your markers.
- On the **Bundles** tab, name a preset and click **Save current** to keep this marker list and its look. Click a preset's name to switch back to it.
- When you save a bundle or workflow, turn on **Save name markers to bundle** (or **Save name markers to this workflow**) to keep markers with it.

06 My location

Show your position and the direction you are facing on the map, and keep the map centered on you while you move.

1. Double-click **My location** on the toolbar to turn your location on.
2. Allow location access when your browser or computer asks.
3. Single-click **My location** to open its settings.
4. Turn on **Follow location** to keep the active map centered on you, or click **Recenter map** to jump back once.
5. On a phone or tablet, click **Enable compass** so the marker shows which way you face.
6. Change the marker under **Marker style**, **Facing direction** and **Accuracy ring**.

In the desktop app, **GPS source** can read a USB or Bluetooth GPS receiver. **Auto (GPS puck, then system)** uses the receiver when one is connected. To share one receiver with other programs, run a GPS splitter and choose its virtual serial port (**Other serial port…**) or its network feed (**Network: TCP…** or **Network: UDP…**).

> Laptops usually have no GPS of their own, so without a receiver your position comes from Wi-Fi or the system. **High-accuracy GPS** asks for a more precise fix but does not add a receiver.