CoCoRaHS Interactive Map Features

This application is intended to provide the interactivity missing in the static mapping system and has the capability to map over ten thousand data points at time.

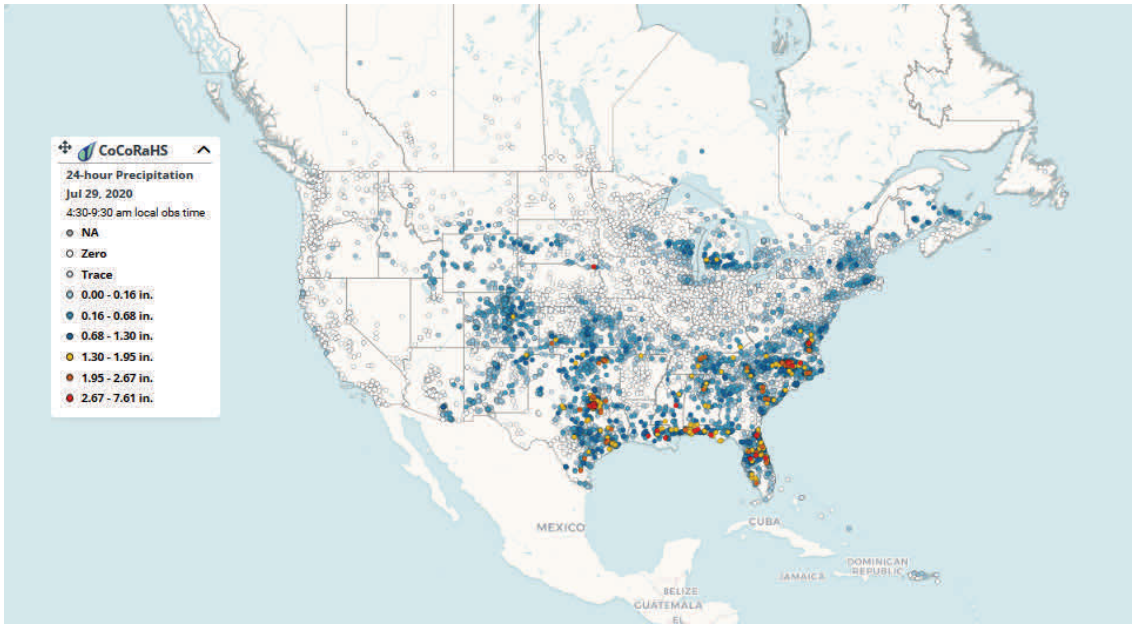
Among the features available with this mapping system are:

- Ability to produce accumulation maps for periods from two to 45 days
- Display maps for Hail and Significant Weather Reports
- Map all stations (active and inactive), or just active stations
- Select map scale colors
- Quickly go to a particular location on the map
- Access the individual observations by clicking on the dot on the map
- Copy and/or bookmark a particular map, set a default map view
- Select either dynamic or static scaling for a map
- Map options such as Units, Color, Key, and Overlays are saved so you don't have to change them each time you open a map.

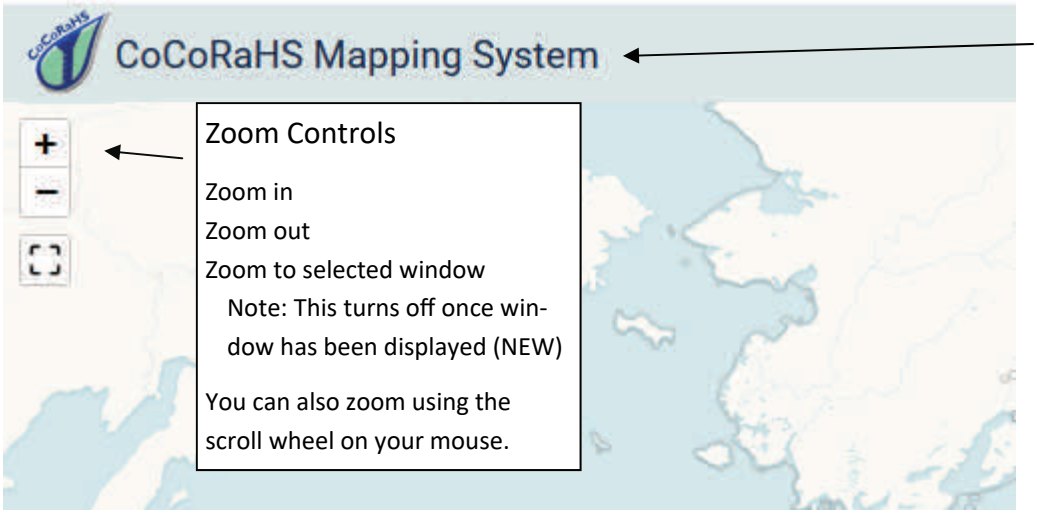
A description of these features and additional help on using the map are included in the following pages.

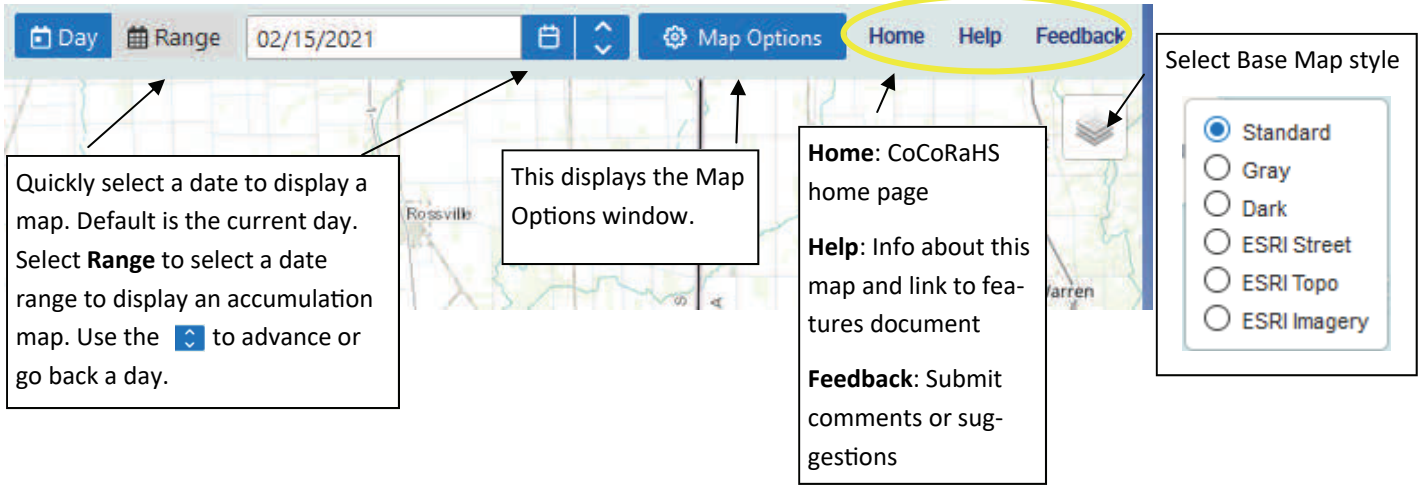
Additional features are being planned for future implementation. Please use the "**Feedback**" button at the top right hand corner of the map screen to submit any comments you may have about the map.

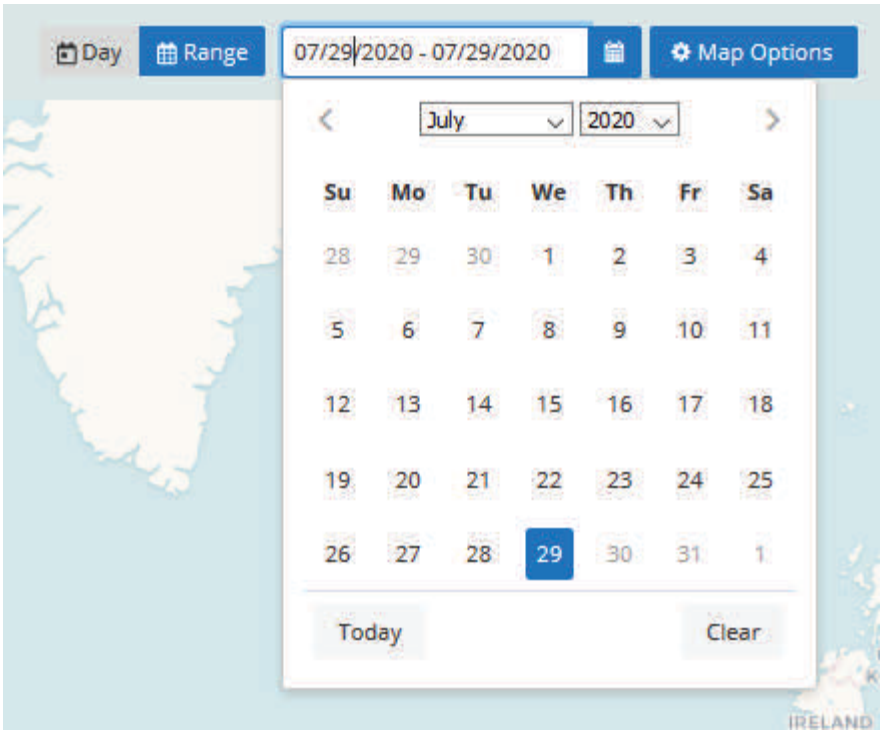
NOTE: The mapping system synchronizes with the CoCoRaHS database every two minutes during peak time in the morning, and every five minutes the rest of the day. Therefore, you may not see your observation immediately after you enter it depending where in the update cycle you submitted your data. You may use the Static map to see your data more quickly.



Map Overview

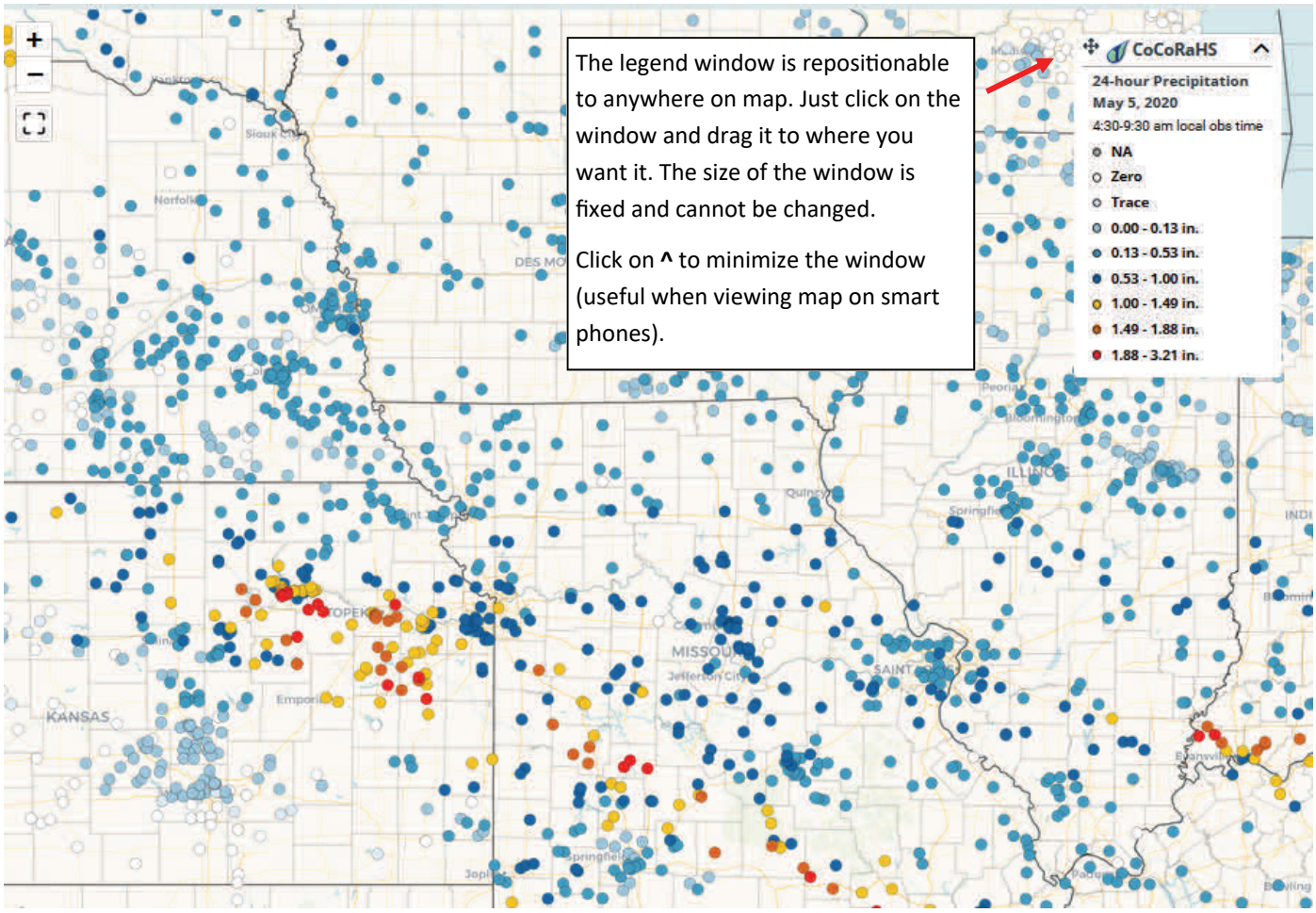




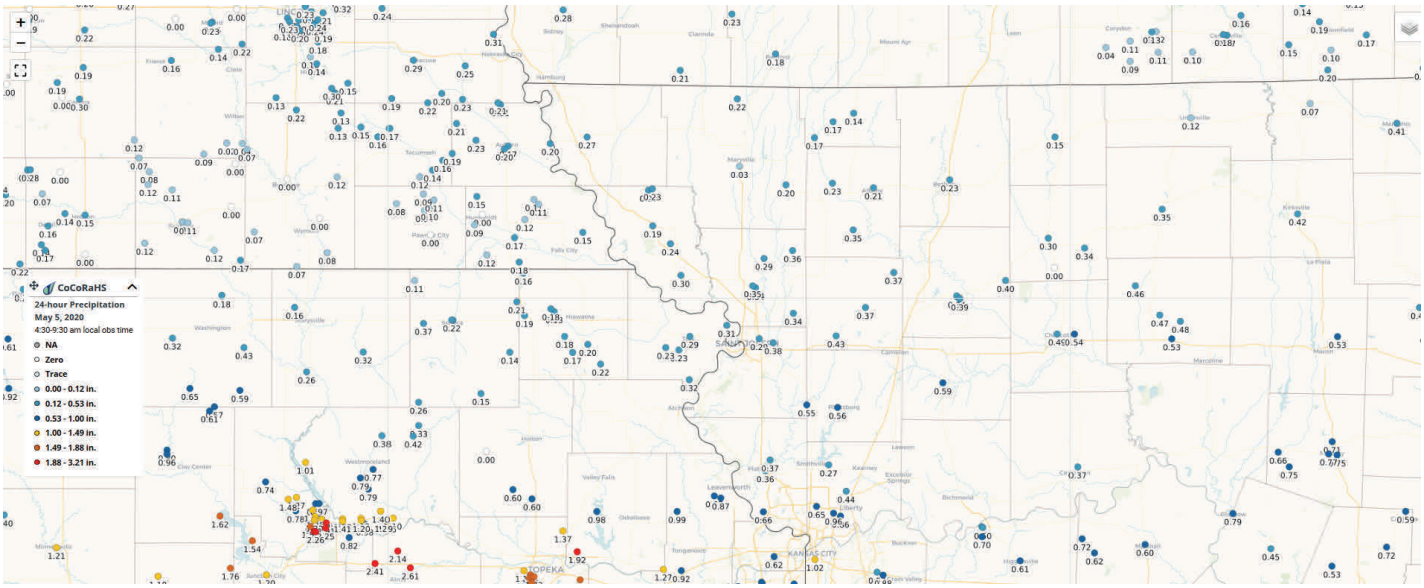


When you select **Range**, a calendar will appear with today's date highlighted. Select your start date and end date. Use the navigation buttons on the calendar to select a different month or year

Map Overview

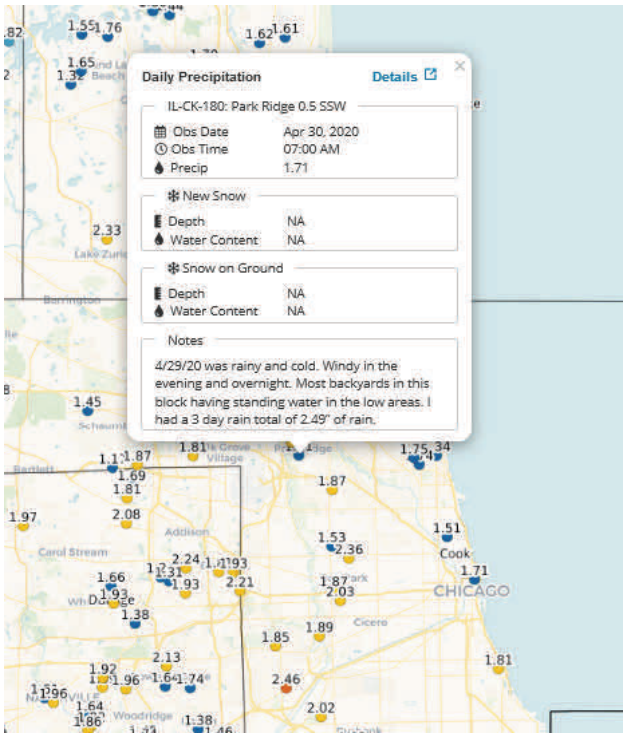


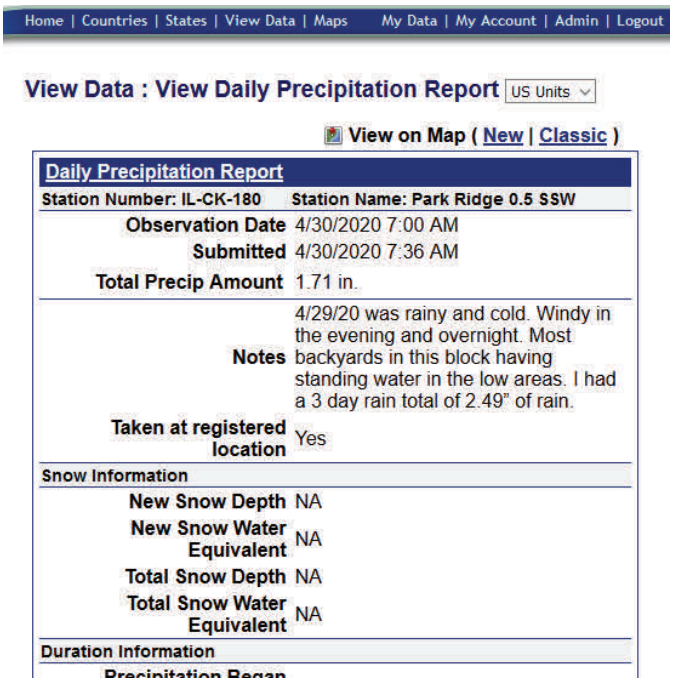
When the zoom level is high enough values will appear on the map. A portion of a zoomed in map is shown below.



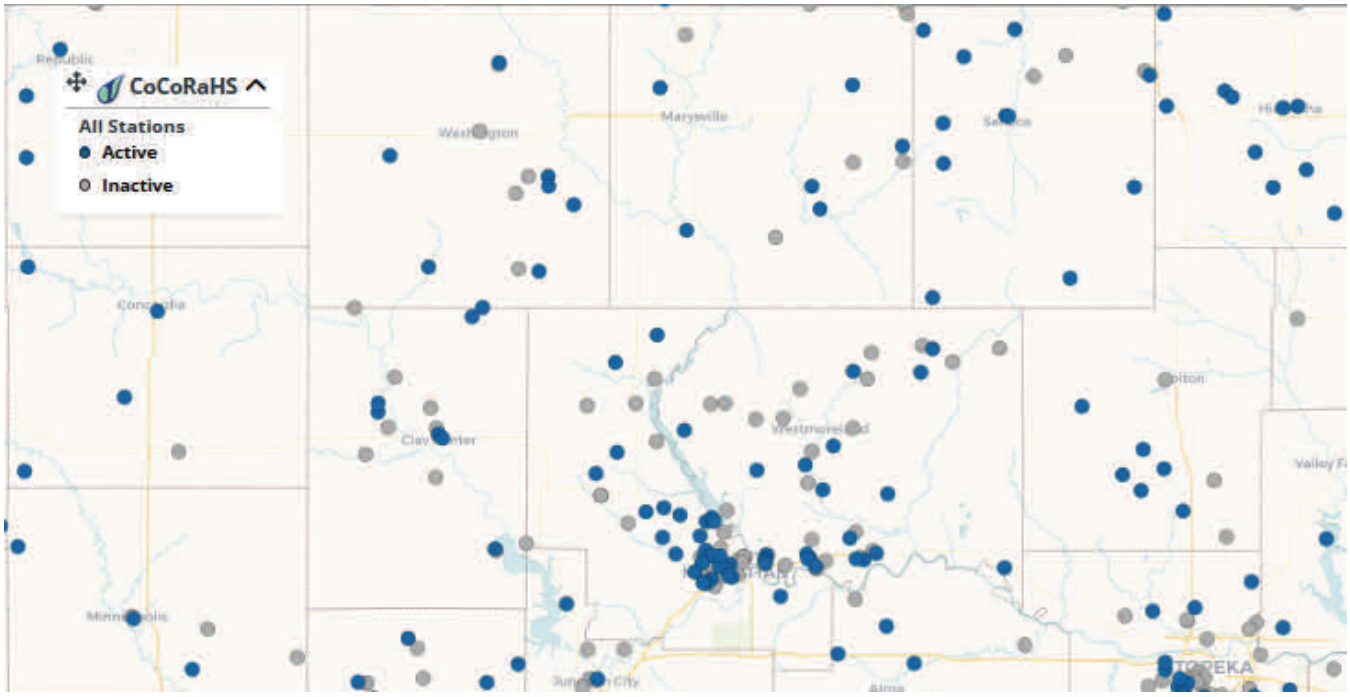
Map Overview

Selecting a dot on the map will display the observation for that location, including comments, if any. Selecting the Details option will pull up the observation on the CoCoRaHS web site (same as using View Data).



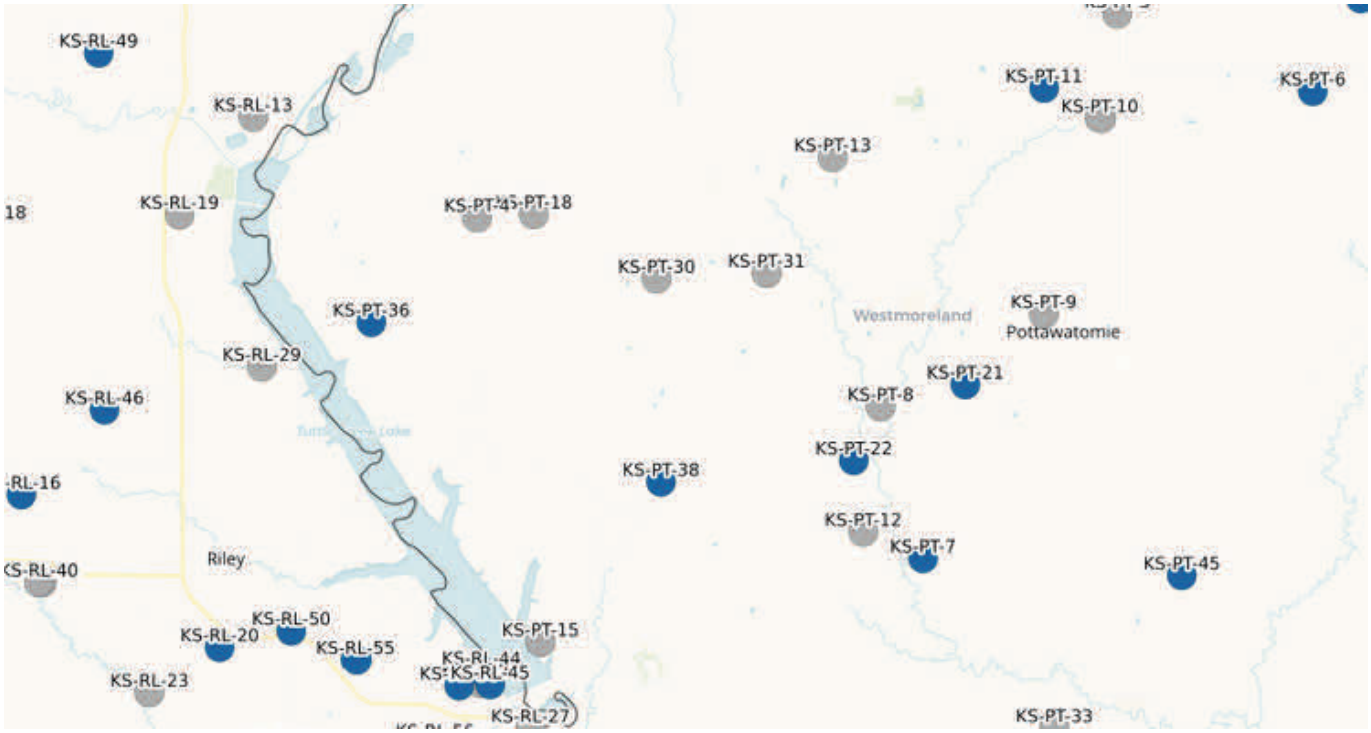


When you select Stations as the parameter to display in the Map Options menu All Stations will display the stations as shown below. You can choose to display only active stations.

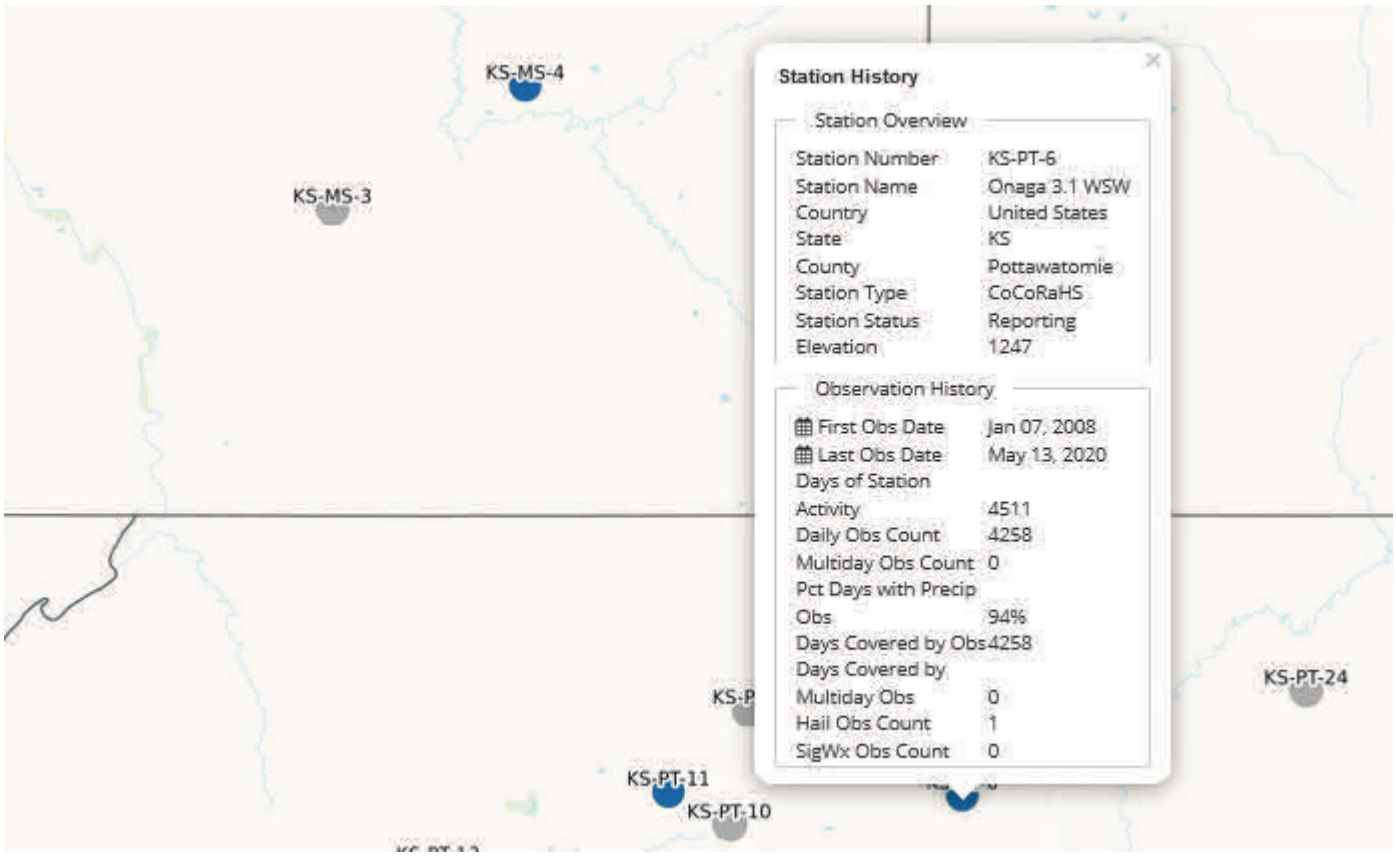


Map Overview

When Stations is selected in Map Options, station numbers will be displayed when you zoom in on the map.

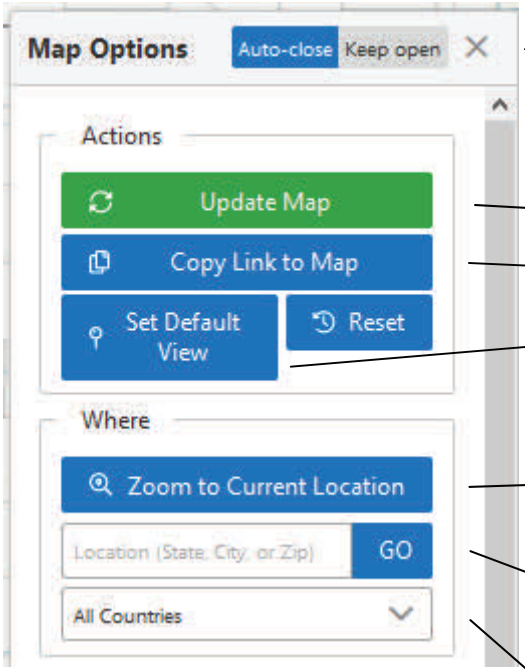


When you select a station by clicking on the dot, a Station Overview and Precipitation Observation History will be displayed



The Map Options Window

There have been major updates to the Map Options window with the February 2021 update. The Map Options window is accessed by clicking on the button at the top right hand corner of the screen



If **Auto-close** is selected, the Map Options window will close when the Update Map button is clicked. If **Keep open** is selected, the Map Options window will remain open on the screen until you close it.

This updates the map after options have been selected

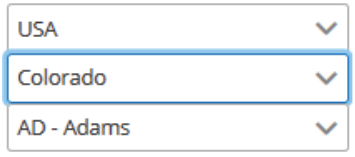
Copies a link of the currently displayed map window to the clipboard

Select this to set the current map view as the default. The next time you open the map it will open to this view. Click **Reset** to reset the default to the standard view.

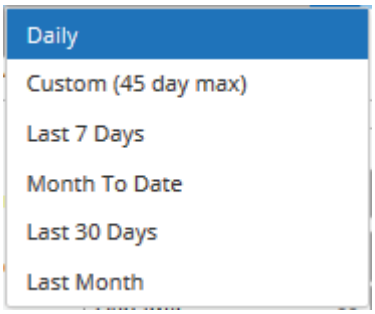
This will zoom the map to your current location. This is based on the location of the IP address detected. If you are using a dynamic IP address generated by your ISP then this may not work as intended.

Type a location in this box (e.g. “Denver, CO”) and map will zoom to that location when you click on GO. Zip code works best.

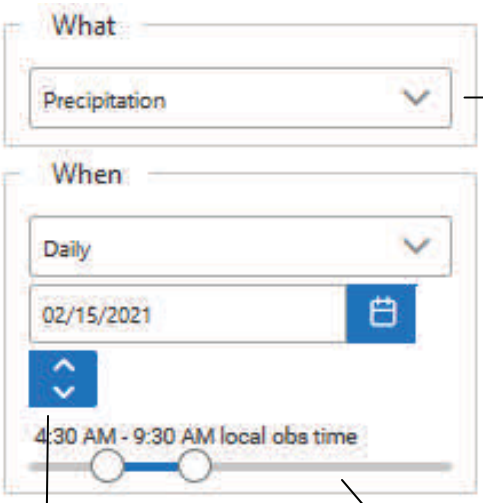
Select your country, then state/province/district, and if desired, county. Map will zoom after each selection.



The Map Options Window



Select the time period over which you want precipitation. Daily is the default. If you select **Custom**, you will able to enter the start date and end date of the period over which the precipitation will be accumulated.

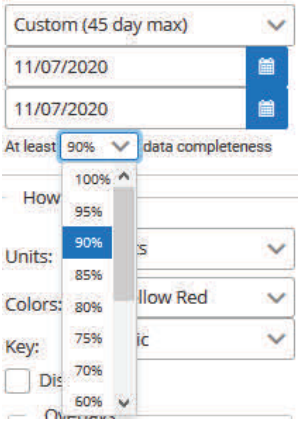


Select what parameter you want displayed. Options include:

- Precipitation
- New Snow Depth
- New Snow Water Content
- Snow on Ground Depth
- Snow on Ground Water Content
- Significant Weather
- Hail
- All Stations
- Active Stations

Move backward and forward through dates by using this navigation button

The time window can be adjusted by dragging either side of the slider. This is valid until changed and only for the current session. It is not saved.



The accumulation query will only include multi-day observations whose start and end dates are completely contained within the request date range.

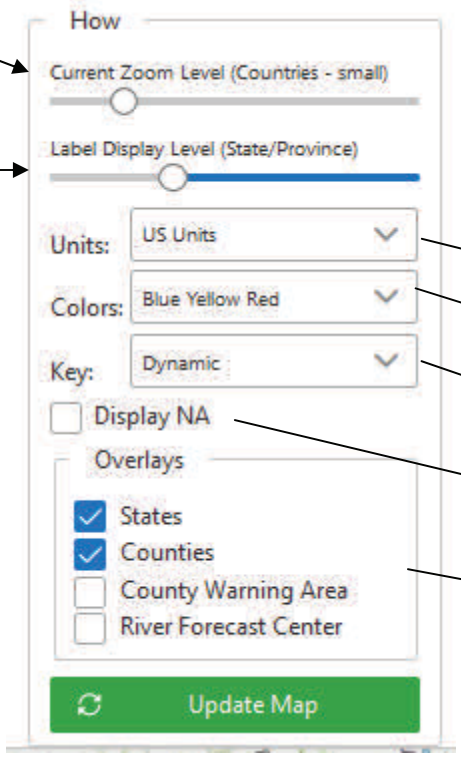
For periods of longer than one day, only stations with the selected percentage of data completeness will be displayed. 90 percent is the default.

NOTE: The "percent complete" filter rounds to the nearest whole day. For example, 0.90 x 7 days = 6.3 days, which is rounded to 6 days.

The Map Options Window

The 'Current Zoom' level is now interactive and dynamic throughout all zoom options (mouse, +/- buttons, or the slider bar in the Map Options.

The "Label Display Level" allows users to dynamically set the zoom level at which the data labels will be displayed.



Select either U.S. or metric units

Select a color scale for the map

Select type of map key to display in the legend window. See explanation below.

By default NA values are NOT displayed. Check this box to display them

Select the overlays you want to see on the map

Map Scale Colors

You have a choice of nine color palettes for the map scale, including the palette that is used for the original dot maps (CoCoClassic).

For multi-day accumulation maps, we recommend the Yellow Green Blue palette.

Dynamic or Static Key?

A dynamic key is one that scales to the data on the map. For example, if the range of precipitation is from zero to 7.25 inches, the intervals in the map key will scale between those two values. This options is what was used for the original CoCoRaHS "dot" maps. This option provides more resolution between amounts on the map.

The choice of a static key fixes the range of the map legend to nine intervals from NA to 40 inches. This is useful if you wish to visually compare maps keeping the color scale the same on all maps. The disadvantage is that the scale is fixed no matter the range of precipitation on the map, and in the highest category (4.00-40.00 inches) all values will be the same color on the map.