

The Big Ultra Map User Guide

Introduction

The Trail Nomadic Big Ultra Map is a "one stop shop" for finding trail and ultramarathon events throughout the United States. The current map application was constructed for use with large screen devices - so it is highly recommended to use a desktop or notebook computer for searching. When using the map, the general premise for discovery is powered by the combination of map extent and user-selected filters and ecoregion layers for identifying events then clicking through the web URL links to the event webpage for further exploration or registration details. Let's start exploring!

The Big Ultra Map User Interface



Map Search

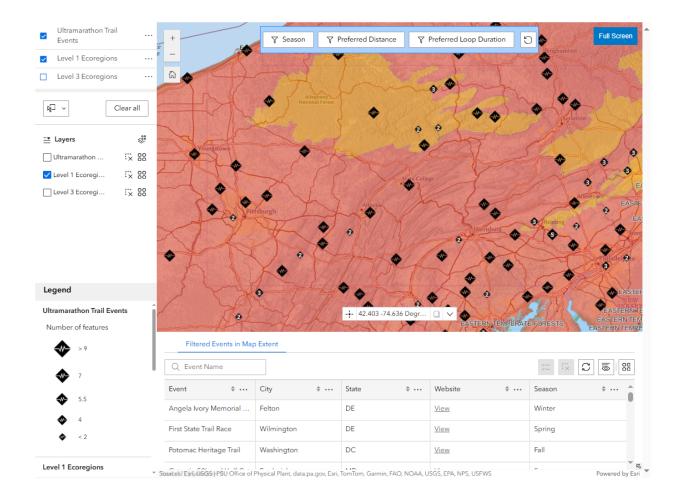
Simple Search

The primary means of discovery is that map itself. As users zoom or pan within the map, the table at the bottom filters showing only events that are currently visible within the map extent. As the map extent changes the layer list dynamically updates to the current view. Selecting the Reset Extent button at any time will restore the default view of the continental United States.

Using Map Extent

Use Case: A user wants to quickly evaluate all events in Pennsylvania.

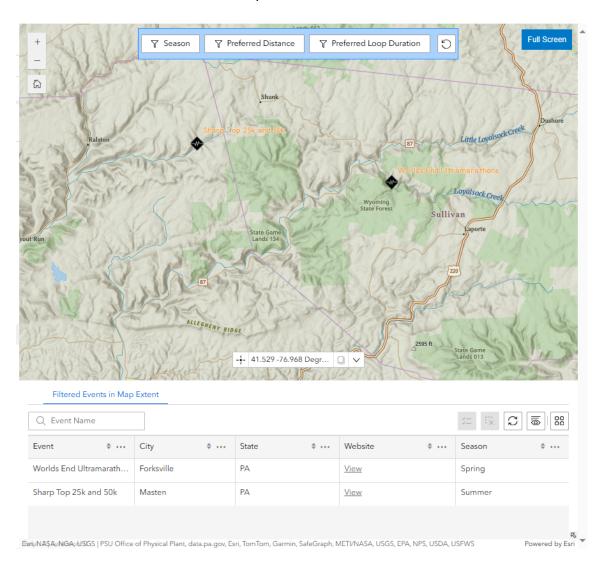
Drag the map so that Pennsylvania is at center, then use Zoom Controls or the mouse wheel to zoom so that the entire state of Pennsylvania can be seen within the map extent.



Things to notice:

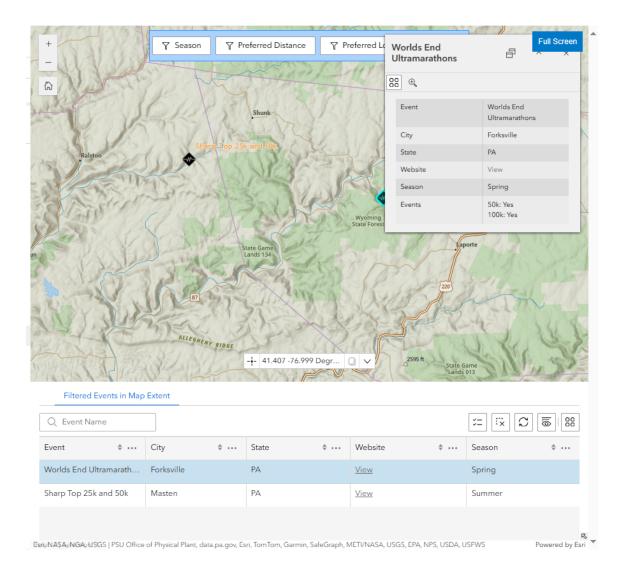
- The trail events point layer has changed with single events rendering out and clusters reduced to smaller numbers (2 to 5)
- Zooming in further eventually reveals labels showing the event name.
 - Users may prefer to turn off ecoregions layers by unchecking them in the Layer
 Display List (upper left) until wanting to explore that layer further.
 - The table now only shows the points visible within the map extent
 - Table Properties include:
 - Event: The name of the event
 - City: Nearest populated place or post-office
 - State: State of event
 - Website: Link to the event website or Facebook page
 - Season (determined by typical month of event):
 - o Winter: December, January, February
 - Spring: March, April, May
 - o Summer: June, July, August

o Fall: September, October, November





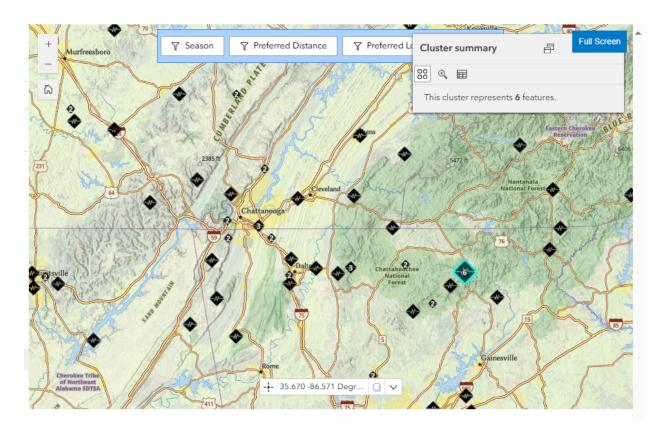
- To see more information about a point, first make sure that it is set as selectable in the Selection Controls panel at left. The Ultramarathon Trail Events should be checked.
- Click on the point of interest and a popup will appear with all event information including distances/loop duration. Notice that selected events are also highlighted on the map and in the table.



 Clicking away from the selected event on the map or selecting the Clear All button from Selection Controls will unselect the event and make the popup panel disappear.

Selecting clustered events

Events that are in close proximity at a current zoom level will be clustered with larger icons and a numeric representation of the amount of events that have been consolidated. Users can zoom in further to see the points rendered individually or select the respective cluster by clicking on it.



- A Cluster Summary popup will appear showing the high level representation of the events.
- Click on the Table icon to explore further.
- This action will show a list of event names that have been clustered together. Users may select an event of interest from the popup to see details.

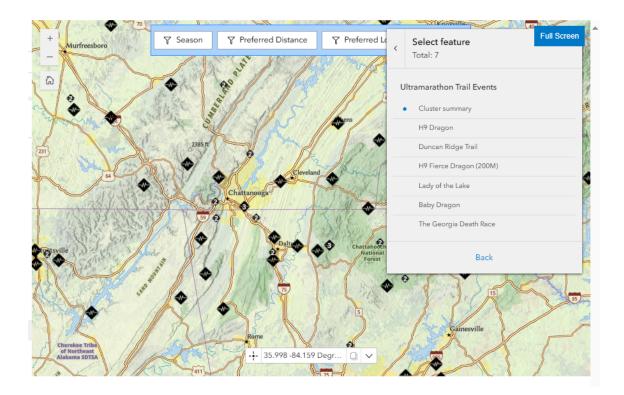


Table Operations

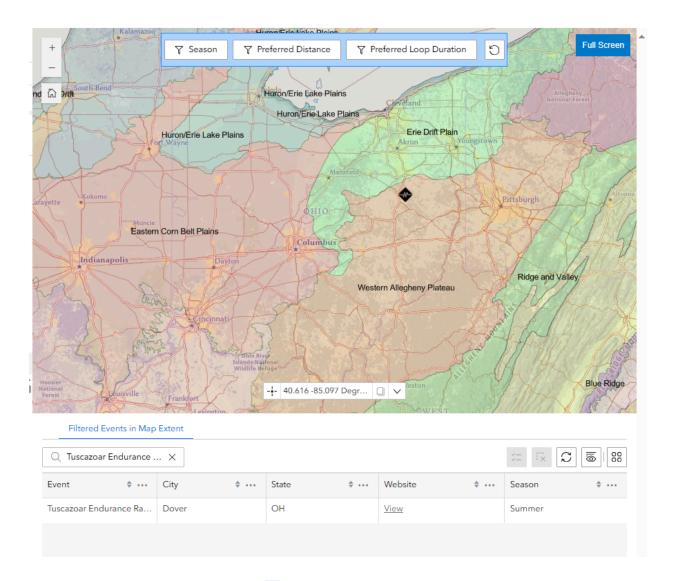
The table can be used for added functionality.

Use Case: A user wants to find an event they heard about called Tuscazoar in Ohio and learn more about what Level 3 Ecoregion it falls within.

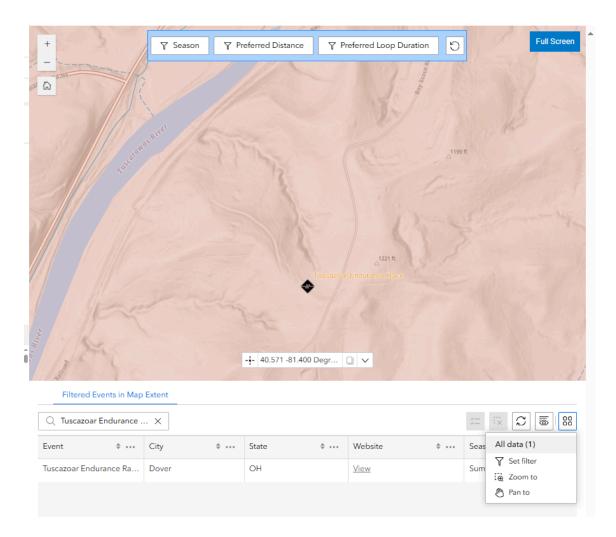
- Drag the map so that Ohio is at center, then use Zoom Controls or the mouse wheel to zoom so that the entire state of Ohio can be seen within the map extent.
- Turn on the Level 3 Ecoregions layer in the Layer Display List (upper left)
- In the Event Name box at the top of the table begin typing the event name, Tuscazoar. This will auto-complete based on available events in the map extent and table.



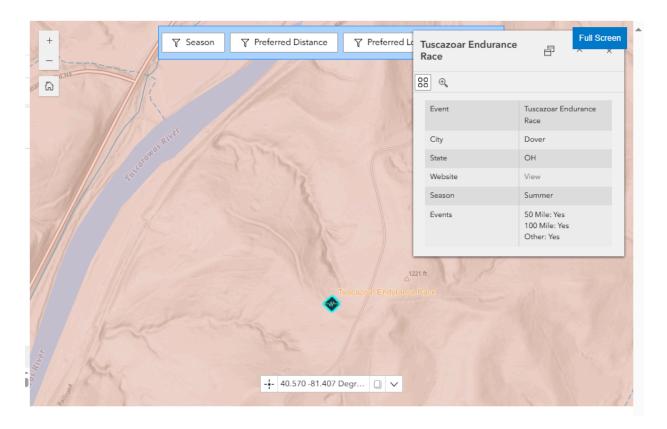
• Selecting the prompted event name will filter the table and map view to just that event where we can see that it is contained in the Western Allegheny Plateau ecoregion.



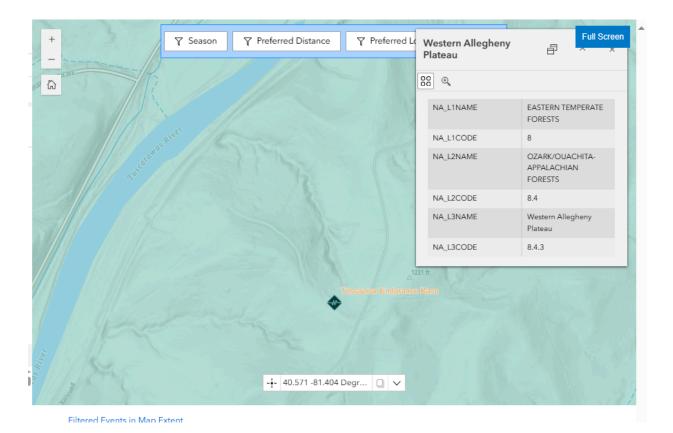
Selecting the Actions button at the top-right corner of the table offers additional functions like zooming or panning to the specific event. In this example - choosing Zoom To provides a closer look.



• Selecting the Event point on the map provides additional details about the Tuscazoar Endurance Race, including a link to the website, season and available distances.



• From here, users can select the associated L3 Ecoregion by clicking near the point on the map and viewing the popup showing the detailed hierarchy of the ecoregion.



Scrolling down on the Find Events page, below the map, provides users access to more
details about the Ecoregions and links to additional information including details about
the Western Allegheny Plateau (8.4.3) or other Level III regions here.

Ecoregion Levels

Level I Ecoregions

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North America has been divided into 15 broad, level I ecological regions. These highlight major ecological areas and provide the broad backdrop to the ecological mosaic of the continent, putting it in context at global or intercontinental scales. Source: Ecoregions | US EPA

Level III Ecoregions



Level III mapping describes smaller ecological areas nested within level II regions. At level III, the continent currently contains 182 ecological regions.

These smaller divisions enhance regional environmental monitoring, assessment and reporting, as well as decision-making. Because level III regions are smaller, they allow locally defining characteristics to be identified, and more specifically oriented management strategies to be formulated (CEC 1997).

Source: Ecoregions | US EPA

LEARN MORE

LEARN MORE

Western Allegheny Plateau.

Additionally the Video Gallery links on the home page are great for exploring a particular ecoregion. In this example the Region 8 Gallery features an example event from 8.4.3 -

Explore events and regional scenery in the video gallery!

A rotating cast of events by ecoregion.



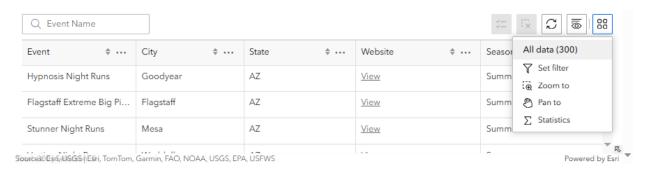
 Be sure to remove the filtered Event name from the Event Name Search box before continued exploration - by clicking the X next to the name.



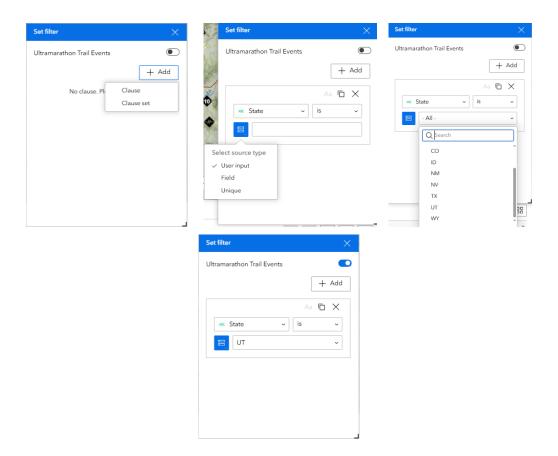
• If at any point the table remains filtered to single events, simply selecting the Clear Selection button at top right will restore all events within the map extent to the list.

Use Case: A user wants to find all events within the map extent that are located in Utah.

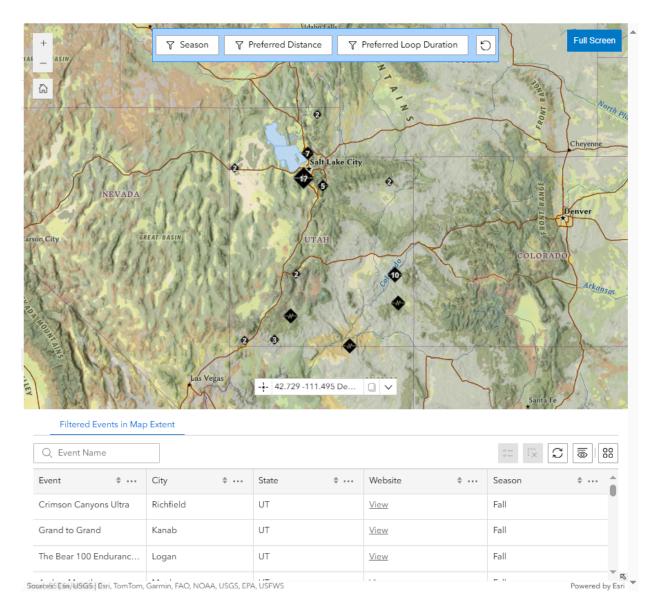
- Drag the map so that Utah is at center then use Zoom Controls or the mouse wheel to zoom so that the entire state of Utah can be seen within the map extent.
- Select the Actions button at the top-right corner then choose Set Filter



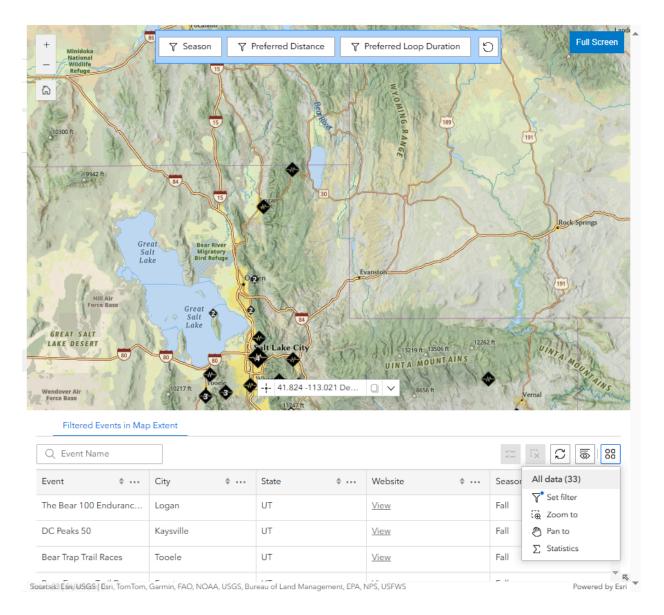
- From the popup select + Add → Clause (left graphic below)
- Then switch the dropdown field list to State
- Change the source type to Unique (left-middle graphic below)
- From the selection list choose the state abbreviation, in this case UT (right-middle graphic below)
- Then slide the filter toggle at top right to activate the filter, then close the dialog box (right graphic below)



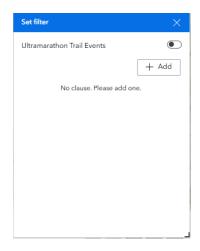
• The map results and associated table now only show the events filtered for Utah



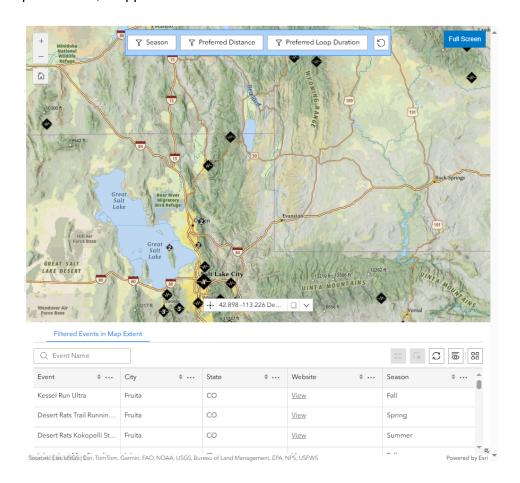
• It's important to note that this filter will remain until cleared which means that when the map is moved to other locations completely outside of the extent of the filter - no results will return. The filter must be reset. A blue dot prompt next to the Set Filter selection, as seen in the graphic below, indicates an active filter.



- In this case the filter is limiting the display to only the 33 features in the map extent that fall within the Utah state boundary. To remove the filter:
 - Select Set filter
 - Delete the previously entered clause (by clicking the X) and/or slide the filter toggle to off. Both options were performed in the example graphic below.



 Now all of the events in adjacent states, outside of the old filter parameters, reappear

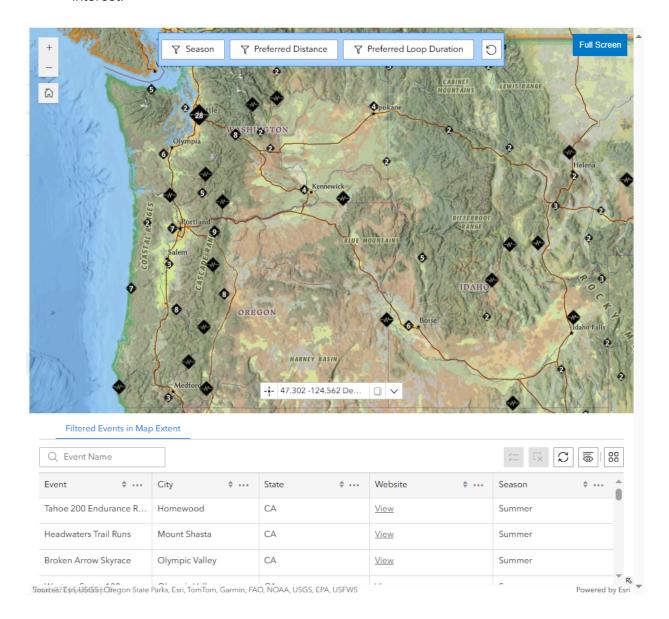


Set Event Filters

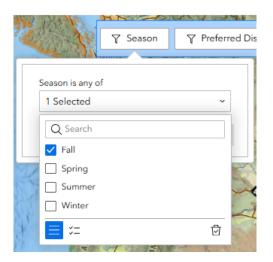
The Set Event Filters can be used to thoroughly target events of specific characteristics such as season, distance and loop duration within the map extent. These filters are used in combination so that only events that meet all of the user-entered conditions will show on the map.

Use Case: A user wants to find events in the Pacific Northwest that are 50 miles or 100k in distance and occur during the Fall season.

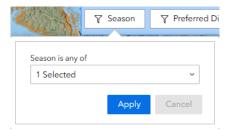
 Drag the map so that an area approximating the Pacific Northwest region is at center then use Zoom Controls or the mouse wheel to target the desired extent of the area of interest.



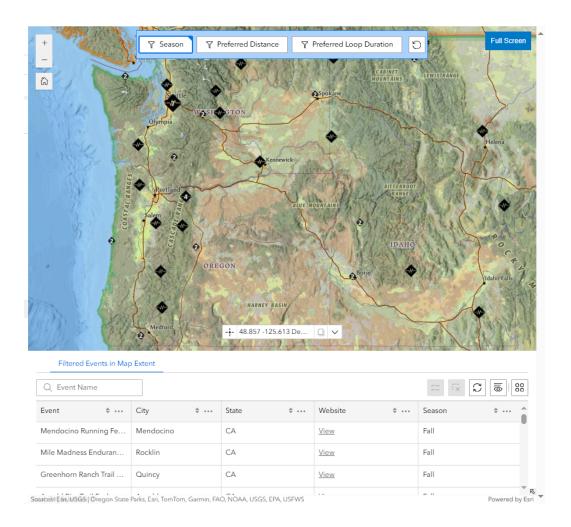
Select the Season filter at the top of the screen and check the box next to Fall.



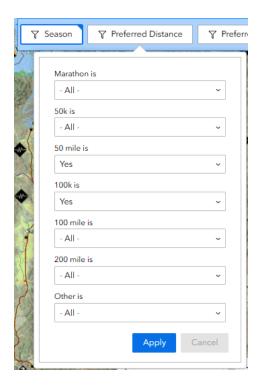
• Click on the original prompt "Season is any of" and then click the Apply button.



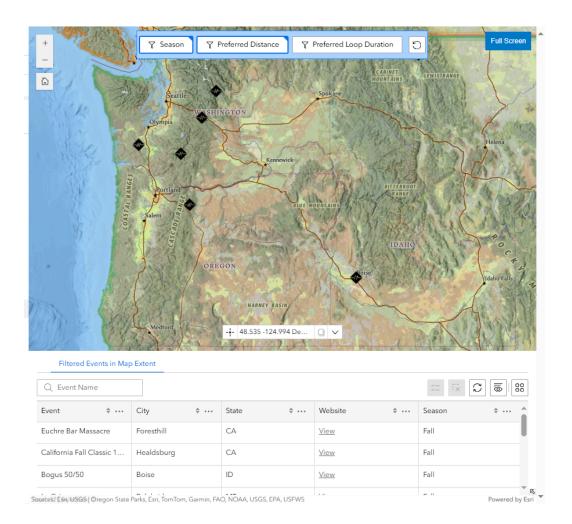
Click the Season button again to retract the filter dialog box. Notice that the
events on the map and in the table are now reduced to only the events occurring
in the Fall. The Season filter box now has a blue outline showing that it is active
too.



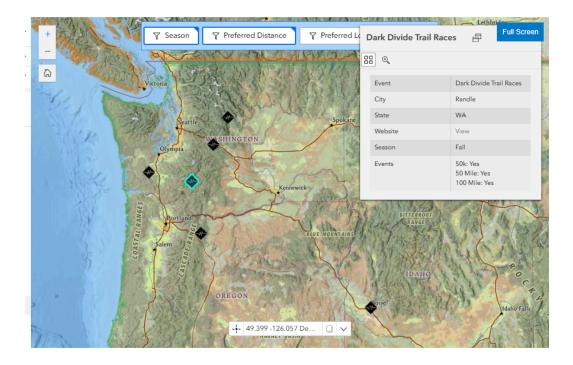
• Select the Preferred Distance filter at the top of the screen and change the parameters so that the boxes indicate 50 Miles is Yes and 100k is Yes.



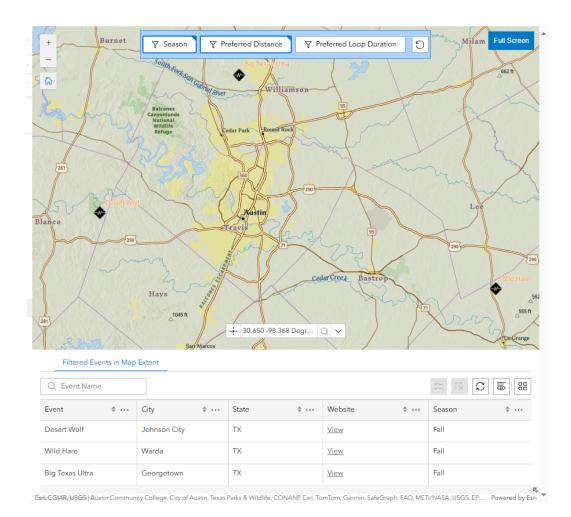
- Click Apply.
- Click the Preferred Distance button again to retract the filter dialog box. Notice
 that the events on the map and in the table are now reduced to only the events
 occurring in the Fall and offering 50 mile and/or 100k events. The Preferred
 Distance filter box now has a blue outline showing that it is active too. In this case
 only 12 events in the example extent qualify.



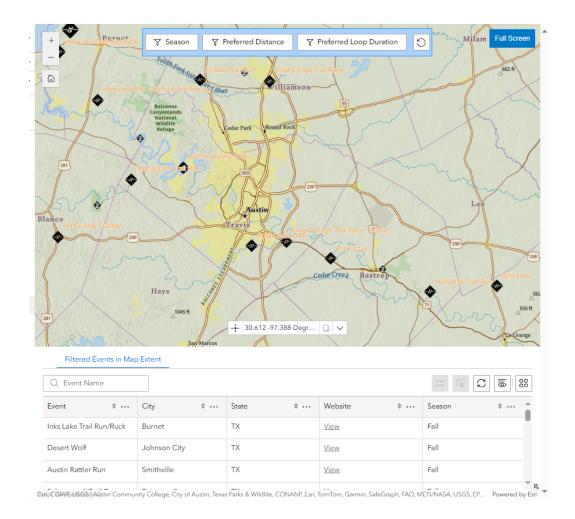
• The remaining events can be explored by clicking on them to see the popup details (like shown below) or by selecting rows of interest from the table.



- Some important notes about distance and loop parameters
 - Events that meet these parameters may also host other distances outside
 of the provided parameters. In this example, these events may also offer
 100 mile or marathon or 50k options. The filter only means that they
 explicitly offer that distance/duration.
 - The Other option under Distance is set as Yes for events that offer shorter, longer or non-standard distances outside of the base parameters (ex. Half marathon or 70 miles)
- The associated filter(s) will remain locked with the map and table only showing qualifying events as a user pans and zooms to different areas. In this example, if a user pans the map to Austin,TX, only Fall events that are 50 miles or 100k in distance will display (as seen below).



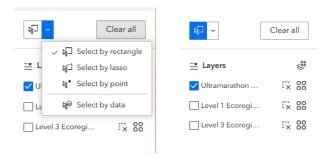
- To reset event filters so that all events are displayed, simply select the Reset Filters button at the right of the event filters pane.
- From the last example in Austin, notice the difference when the reset button is applied. The blue filter indicators disappear and all events reappear in the map extent and table.



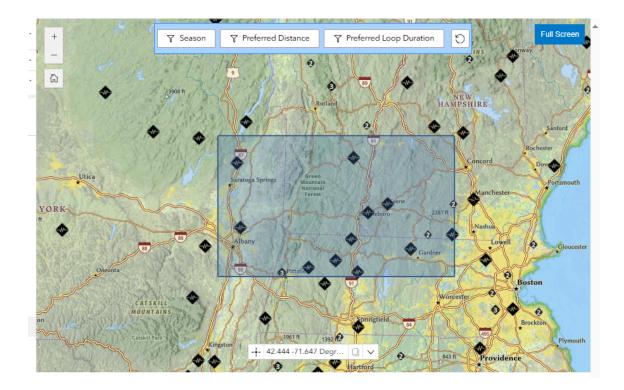
Bulk Selection

The Selection Controls panel allows users to bulk select multiple unfiltered events or events that have been prefiltered using previously described processes.

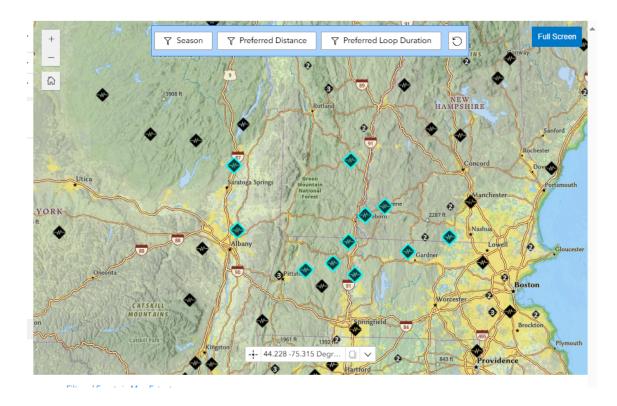
 Make sure that the appropriate layer is set to select then choose the selection method from the dropdown list. Once the method has been selected click the select box to activate so that it is blue (right graphic)



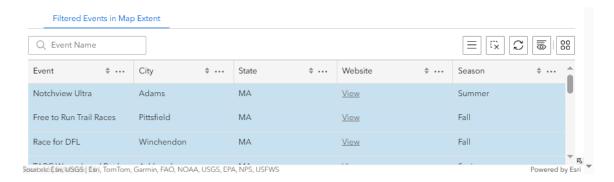
 The cursor changes shape and now allows for drawing of a selection - like the rectangle below



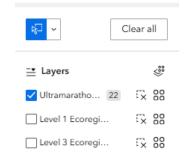
• Selected events will be highlighted



To switch the table to only showing selected events choose the Show selection icon at top right. The table only shows selected items at this point with rows darkened - indicating selection



The Selection Controls panel also shows a count of selected features by layer



- Note that as the map extent changes the selected features list in the table will change as features are no longer contained within the map view
- The Action button on the table and Selection Controls dialog offers several actions to use with selected data

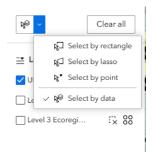


- Now the Show selection button has switched to Show all which, when clicked, returns
 the table to showing all events within the map extent.
- Clear selection or the Clear all button on the Selection Controls panel will cancel the selection. Drawing a new selection will cancel the previous selection.
- Clicking the Blue Selection box deactivates selection and allows regular map controls.

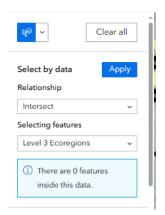
Select by data allows users to use features from other layers to make selections. This makes the Ecoregions layers usable as a selector for ultramarathon events.

Use Case: A user has identified the Idaho Batholith as an area of interest and wants to select all 50k events in Level 3 Ecoregion 6.2.15 - Idaho Batholith

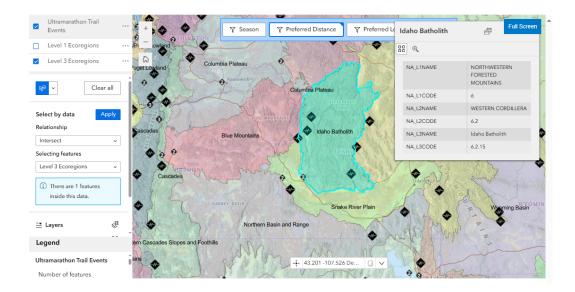
- Navigate to the area of the Idaho Batholith
- Select 50k is Yes under the Preferred Distance filter.
 - Change the selection type in the Selection Controls dropdown to Select by data and click the selection box so that it is blue (active)



• The Selection Controls dialog box changes



Switch the Selecting features to Level 3 Ecoregions then click on the Idaho
Batholith polygon on the map. In this step, multiple polygons / regions could be
selected if desired.



Click the Apply button and now four 50k events are selected in the map

