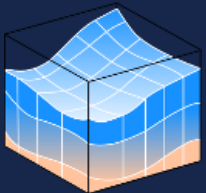


Agricultural Integrated Management System (AIMS)

A web-based decision support tool for watershed management

Quick Start Guide

(Beta Version)



NCCHE, The University of Mississippi | USDA-ARS, National Sedimentation Laboratory
October 4, 2023

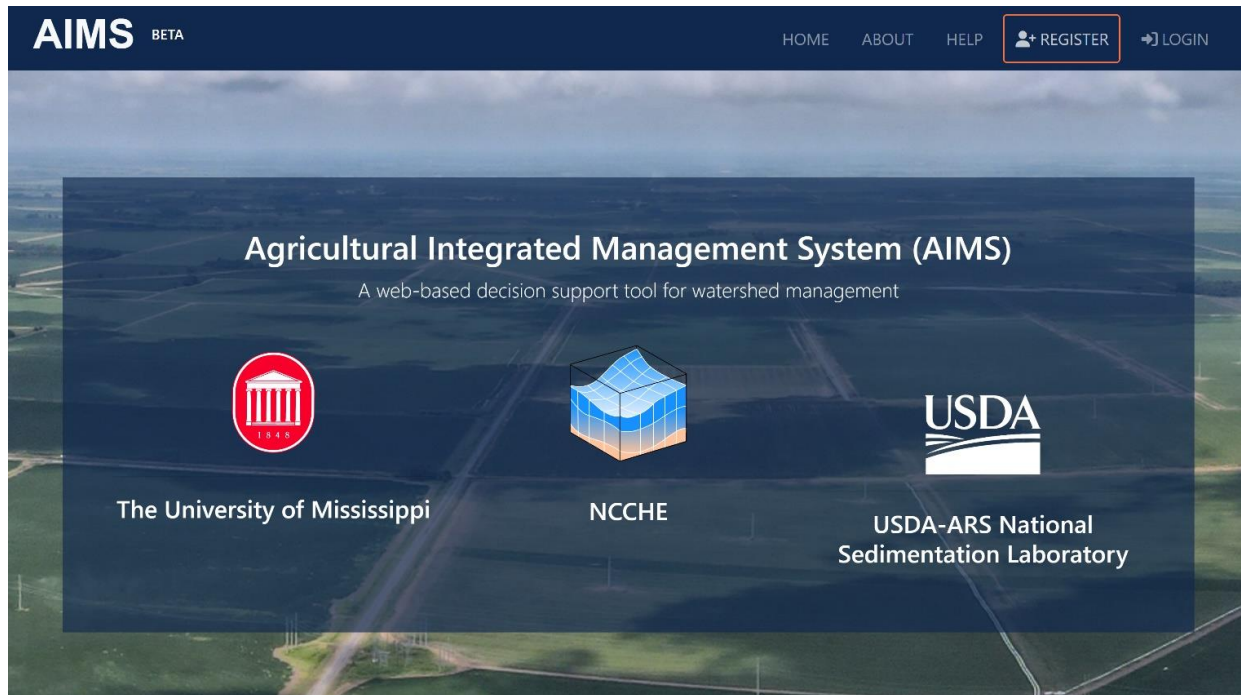


Connecting to AIMS

Create an account

To create an account:

1. Go to <https://aims.ncche.olemiss.edu/> and click “**REGISTER**” located in the blue bar at the top right of the screen.



2. Complete all the required fields and submit the form.
3. Check your inbox for an activation email. Look for an email with the subject “**Confirm your email for the AIMS website**”. You must click the link in the activation email to complete the registration process. *Check your spam/trash folders if you don't see it in your inbox.*

You are almost there, xxxxxxxx@olemiss.edu!

Please click [here](#) to confirm your account

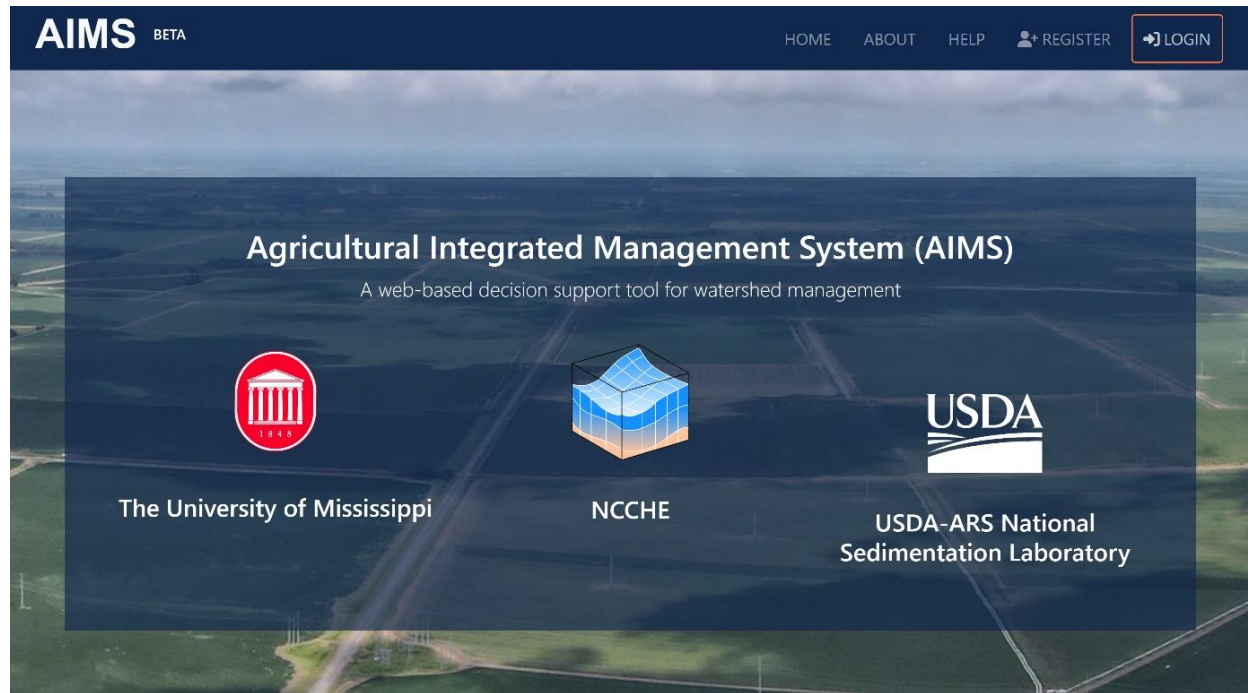
The token expires at 1:11 p.m.

4. You can now log in following the steps below.

Login

To log in to an existing account:

1. Go to <https://aims.ncche.olemiss.edu/> and click “**LOGIN**” located in the blue navigation bar at the top right of the screen.



2. Enter your email address (used as your username) and your password.

A screenshot of the login form. It has a dark blue header with a "Login" button. Below the header, there are two input fields: "Email" with the placeholder text "Enter email or username" and "Password" with the placeholder text "Enter password". Below the password field is a green "Login" button. At the bottom of the form, there are two links: "Forgot password?" and "Don't have an account? Register".

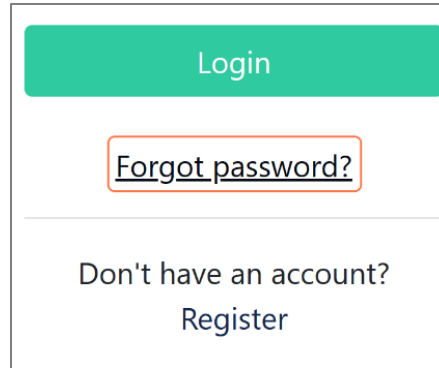
If you have forgotten your password, click on "**Forgot password**" at the bottom of the login form. Follow the provided steps to reset your password.

If you do not have an account yet, you can also choose to click on "**Register**" at the bottom of the login form. Follow the instructions above to create your account.

Reset password

To reset your password:

1. Go to <https://aims.ncche.olemiss.edu/> and click **“LOGIN”** in the blue bar at the top right of the screen.
2. On the login form, click **“Forgot password”**.
3. Enter your email address and then click the **“Reset my password”** button.



Login

[Forgot password?](#)

Don't have an account?
Register

4. Check your inbox for an email with subject line, **“Password reset on aims.ncche.olemiss.edu”**. It might take a few minutes to arrive. If you do not see it, check your spam folder.
5. Open the email and click the password reset link.
6. Follow the instructions on the screen to reset your password.

You're receiving this email because you requested a password reset for your user account at aims.ncche.olemiss.edu.

Please go to the following page and choose a new password:

<https://aims.ncche.olemiss.edu/accounts/reset/MTE/bvg1yt-cdea174864f6efa226d31be2d89f2205/>

Your username, in case you've forgotten: myusername@ncche.olemiss.edu

Thanks for using our site!

The AIMS team

Reset Password

Forgotten your password? Enter your email address below, and we'll email instructions for setting a new one.

Email:

[Reset my password](#)

Managing Projects and Scenarios

Create projects and scenarios

After logging in, you will be directed to the map page.

To create a new project:

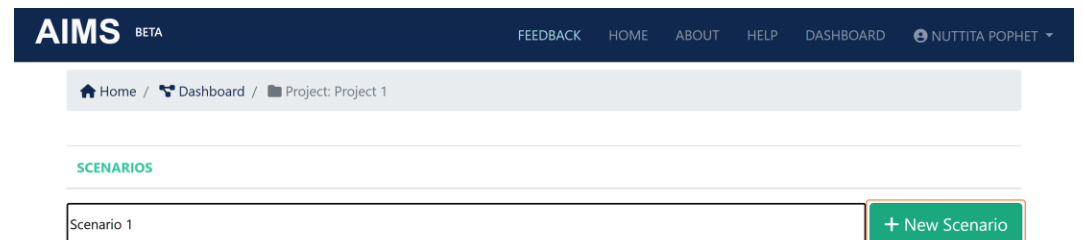
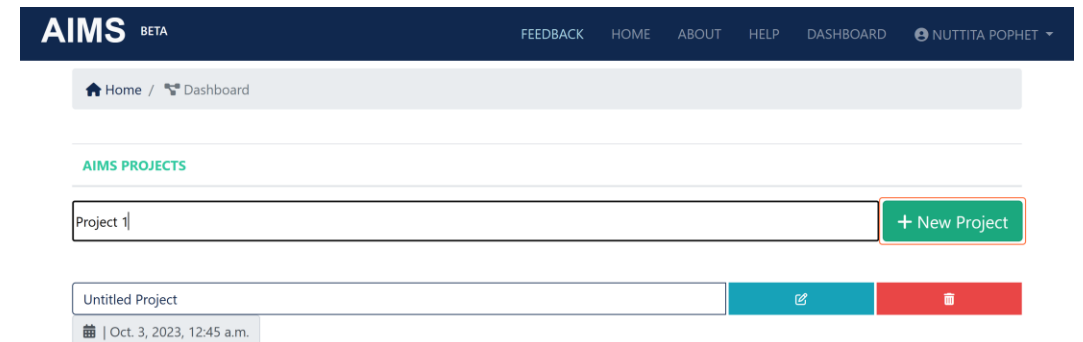
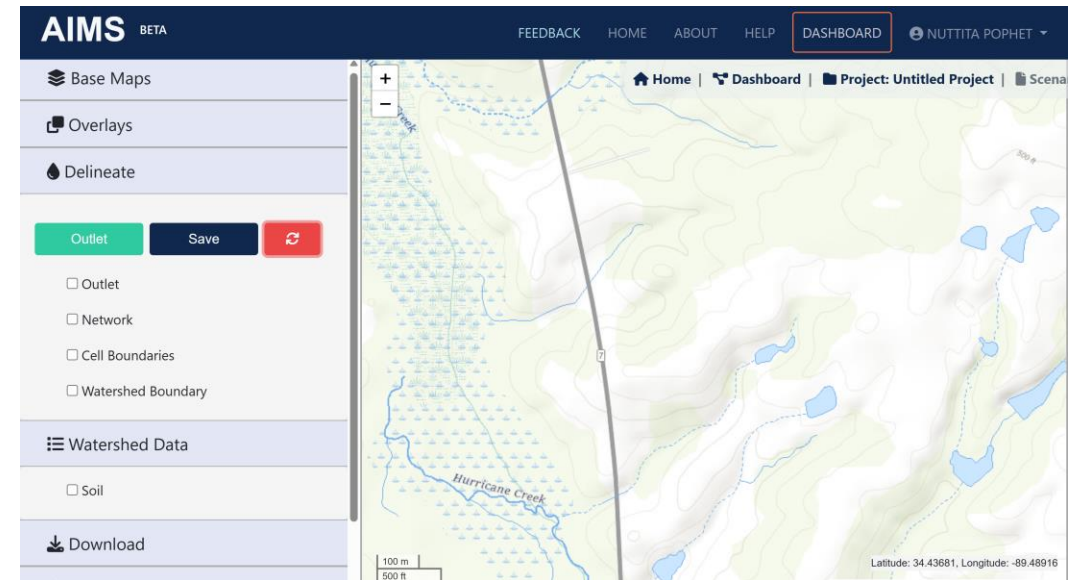
1. Click "**Dashboard**" in the top-right blue bar.
2. Enter your project name.
3. Click the "**New Project**" button.

You'll then be guided to the scenario creation section where you can set up various scenarios.

To create a new scenario,

1. Enter your scenario name.
2. Click the "**New Scenario**" button.

You can delete or edit project and scenario names following the steps below.



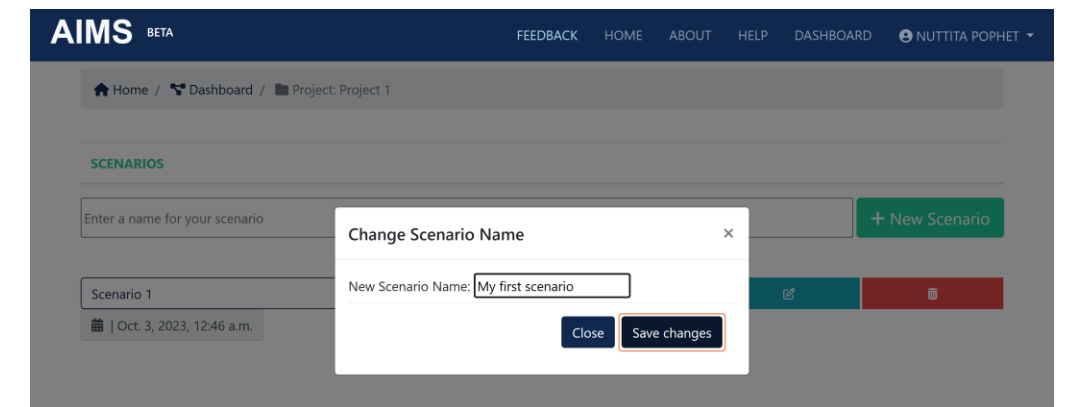
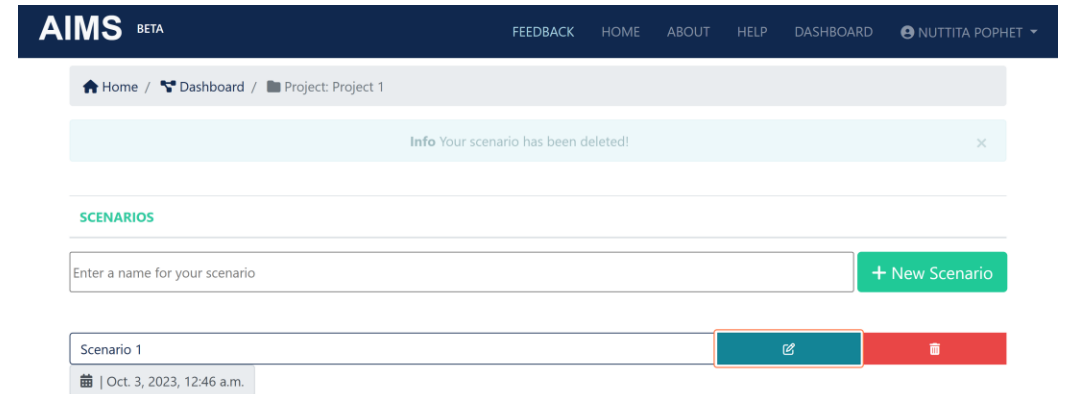
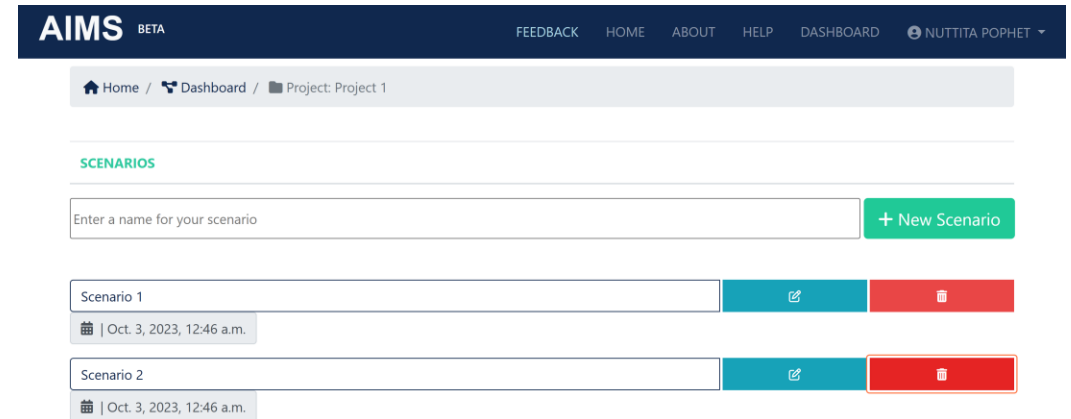
Delete/edit projects and scenarios

Deleting a Project/Scenario:

1. Locate the "**Delete**" button, which is highlighted in red.
2. Click the "**Delete**" button to remove the project/scenario.

Editing a Project/Scenario Name:

1. Click the "**Edit**" button, marked in blue.
2. This action will open a "**Change Scenario Name**" window.
3. Enter the new scenario name in the provided field.
4. To save your changes, click the "**Save Changes**" button.



Navigating the Map Page

Base maps

Once you log in, you will be directed to the map page. From here, you have the option to choose a base map, including:

1. Topographic
2. Dark
3. Gray
4. Imagery
5. Open Street

Select the base map option that suits your needs.

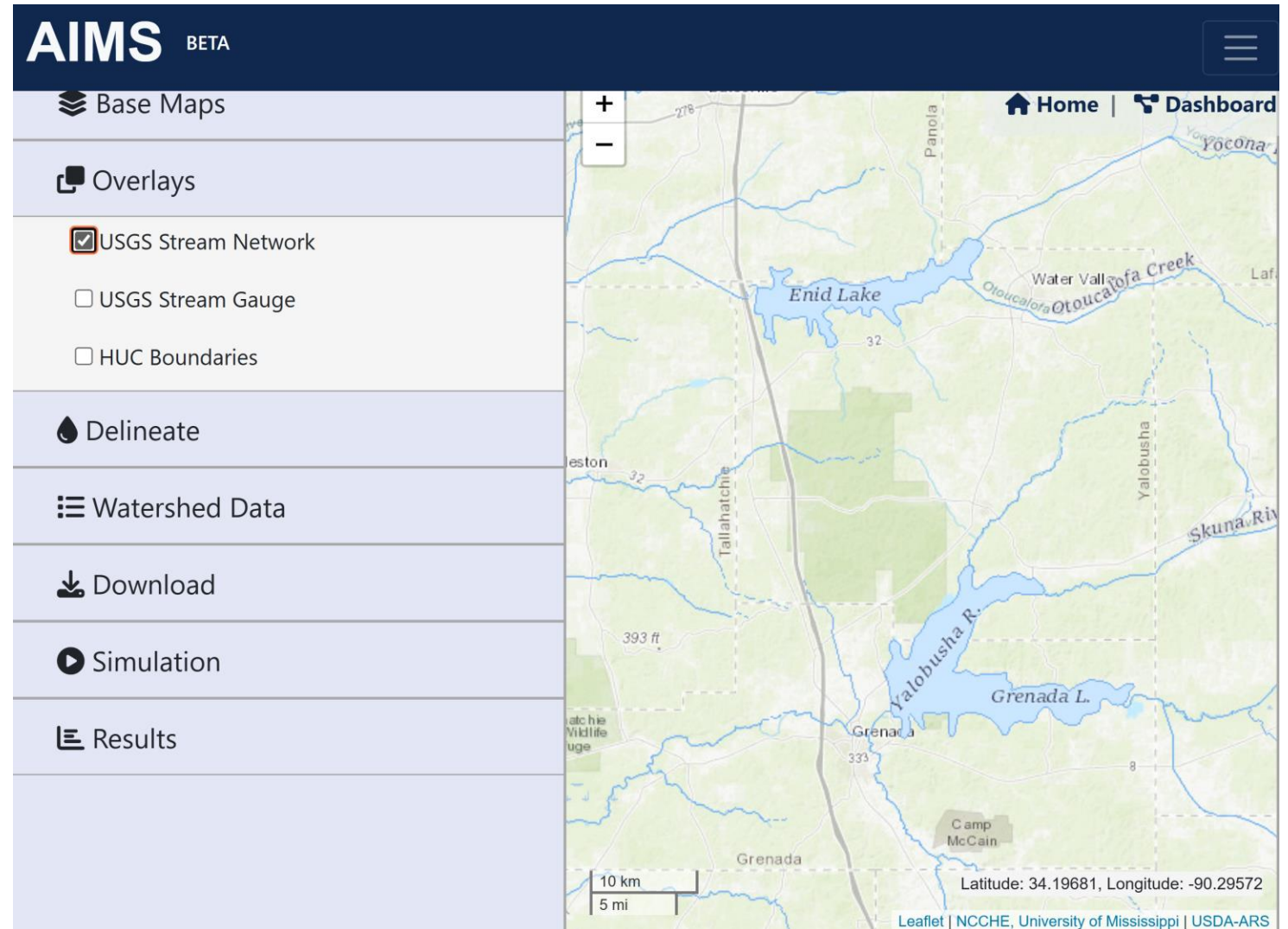
The screenshot displays the AIMS BETA web application interface. The top navigation bar includes the AIMS BETA logo and a Home | Dashboard link. A sidebar menu on the left lists several toolbars: Base Maps (selected), Topographic, Dark, Gray, Imagery, Open Street, Overlays, Delineate, Watershed Data, Download, Simulation, and Results. The main map area shows a topographic view of the Grenada region, featuring Enid Lake, Yalobusha R., and Grenada L. The map includes a scale bar (10 km / 5 mi), a coordinate display (Latitude: 34.19681, Longitude: -90.29572), and a Leaflet | NCCHE, University of Mississippi | USDA-ARS footer.

Overlays: USGS Stream Network

In the “**Overlays**” tab, the “**USGS Stream Network**” is automatically enabled as the default option.

You can toggle this layer on or off to either display or hide it.

This stream network is useful for assisting in the selection of an outlet for watershed delineation.



Overlays: USGS Stream Gauge

You can turn on the "USGS Stream Gauge" layer to see stream gauge locations (indicated by orange dots) on the map.

To view detailed information about a specific gauge station, click on the station (orange dots). This will display a description that includes the Site Number and Station name.

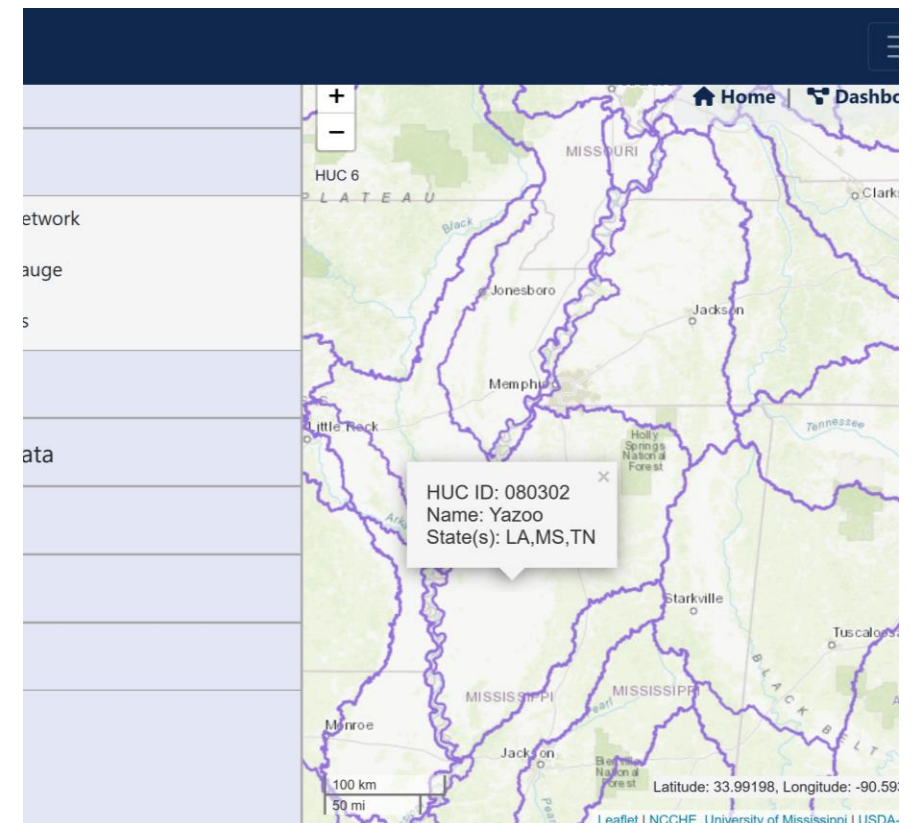
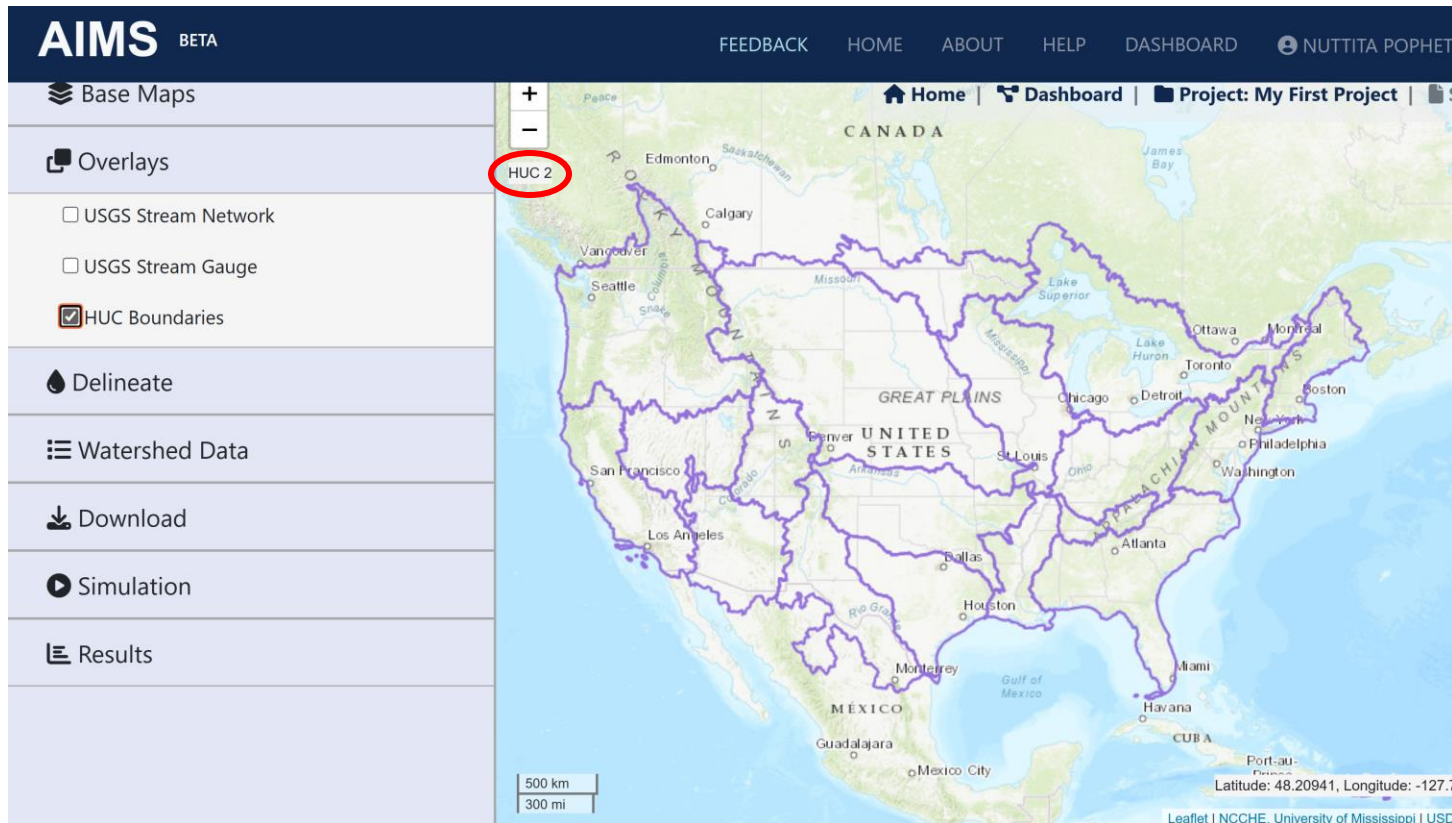
Additionally, you can click on a provided link to visit the gauge station's page on the USGS website.

The screenshot displays the AIMS BETA web application interface. On the left is a sidebar menu with the following options: Base Maps, Overlays, Delineate, Watershed Data, Download, Simulation, and Results. The 'Overlays' section is expanded, showing three checked items: 'USGS Stream Network', 'USGS Stream Gauge', and 'HUC Boundaries'. The main map area shows a satellite-style map of the Yalobusha River watershed in Mississippi. Several orange dots represent stream gauge locations. A pop-up window is open over one of these dots, displaying the following information: Site No: 7280270, Station: TILLATOBA CREEK BL, OAKLAND, MS, and a link: http://waterdata.usgs.gov/nwis/nwisman/?site_no=07280270. The map also shows geographical features like the Tallahatchie National Wildlife Refuge, Grenada Lake, and the Yalobusha River. A scale bar at the bottom indicates 10 km and 5 miles. The bottom right corner shows the coordinates: Latitude: 34.17951, Longitude: -89.73495. The footer text reads: Leaflet | NCCHE, University of Mississippi | USDA-ARS.

Overlays: HUC Boundaries

To display HUC (Hydrologic Unit Code) boundaries on the map, you can turn on the “**HUC Boundaries**” layer. The HUC boundary level displayed depends on the current zoom level.

To access additional information about a specific HUC boundary, simply click on it. The popup window will display details such as the HUC ID, Name, and the State(s) associated with it.

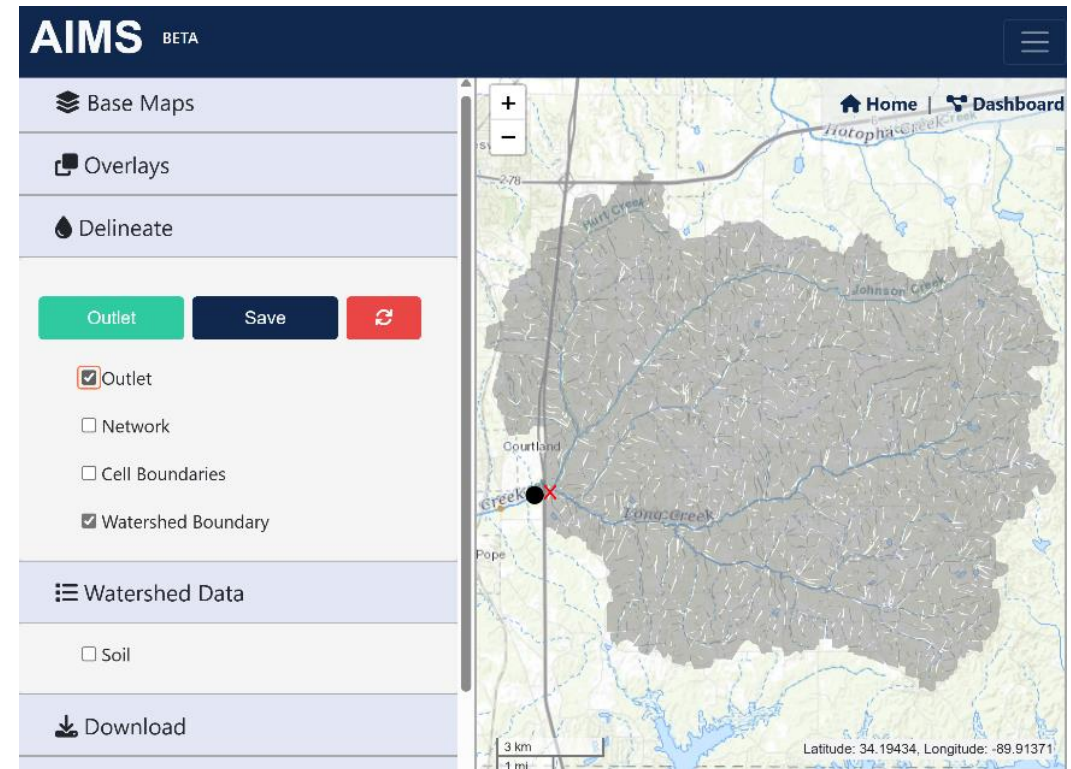
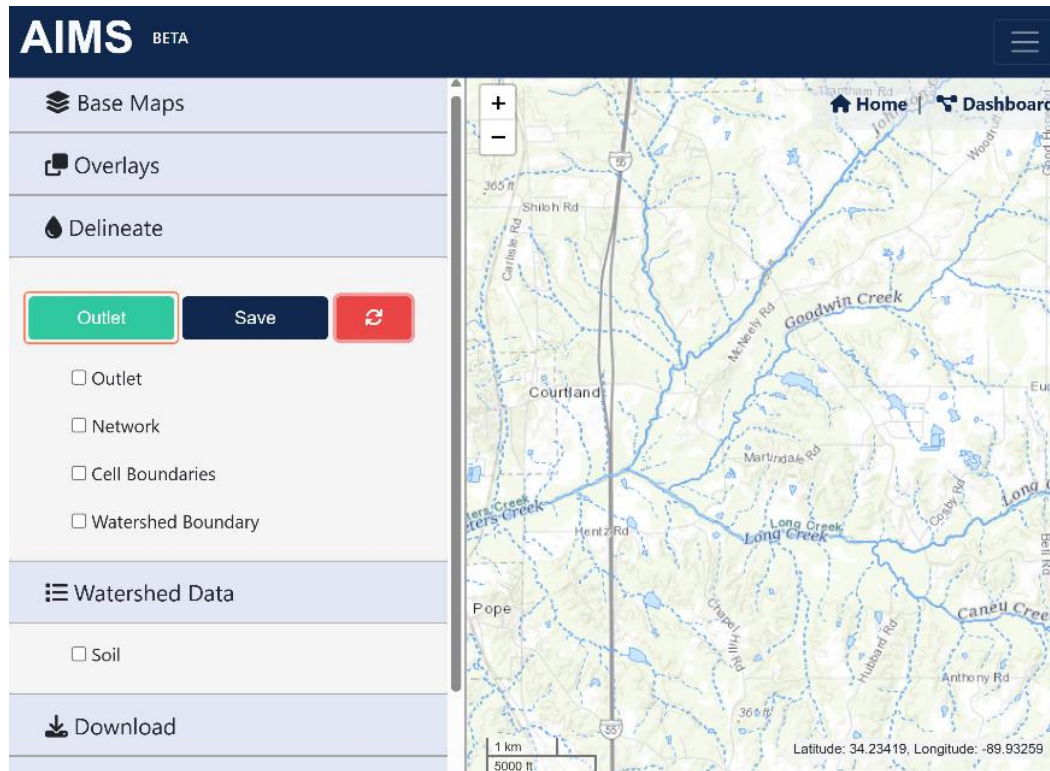


Watershed Delineation

Watershed Delineation

Once the system has completed the watershed delineation, you will see the outlet marked as a black dot and the watershed boundary displayed on the map.

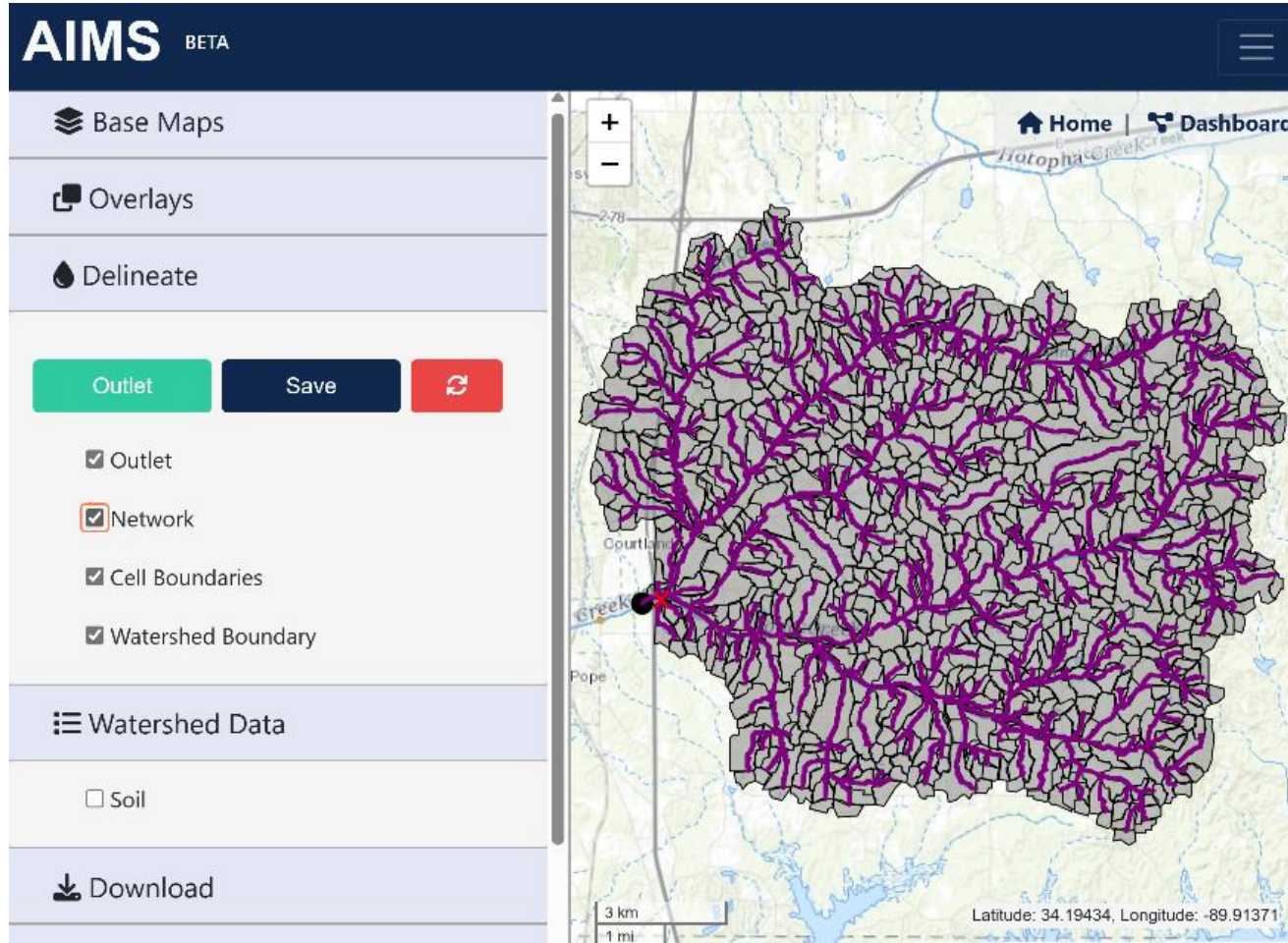
Note that the red cross indicates your clicked location. The system finds the nearest reach to the clicked point and the watershed draining to that reach.



To delineate a watershed, follow these steps::


1. Click on the "**Outlet**" button.
2. Use the map to navigate to your chosen outlet location. You can use the USGS Stream Network as a guide to help you locate the outlet.
3. Once you're at the desired spot, click on that point on the map.

Watershed Delineation



To view the network and cell boundaries, turn on the “**Network**” and “**Cell Boundaries**” options.

Click on the “**Save**” button to save the project and scenario. You can view and edit your projects and scenarios in “**Dashboard**”

To clear all the delineation data, click the refresh () button.

Watershed Data

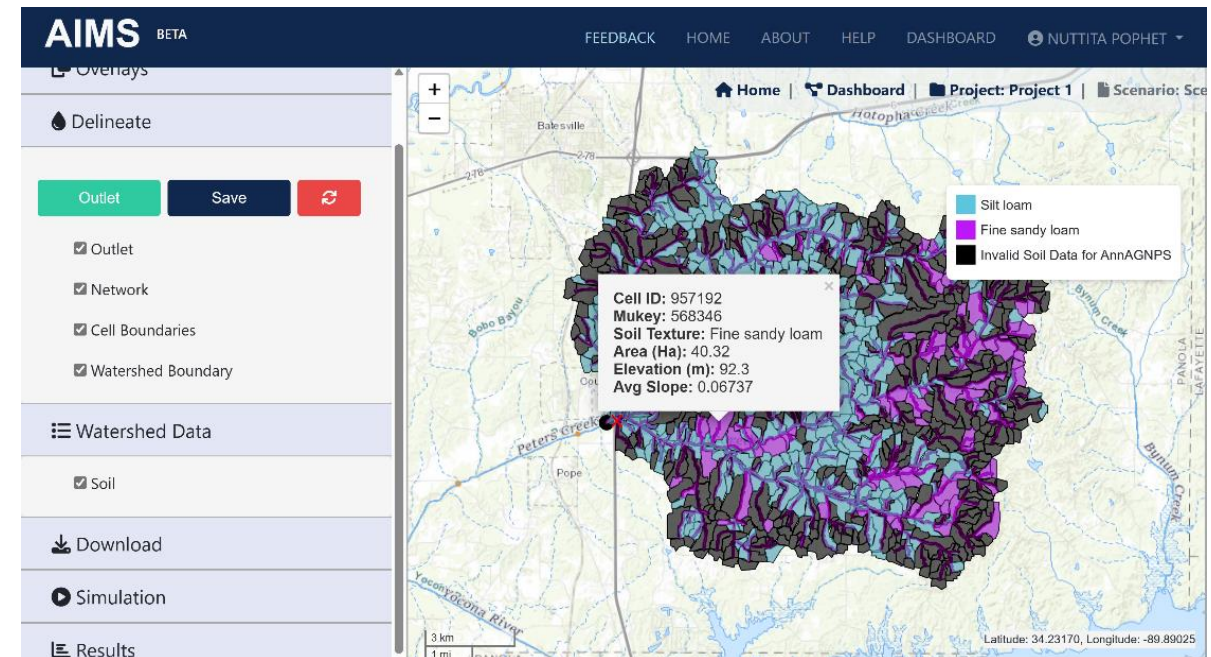
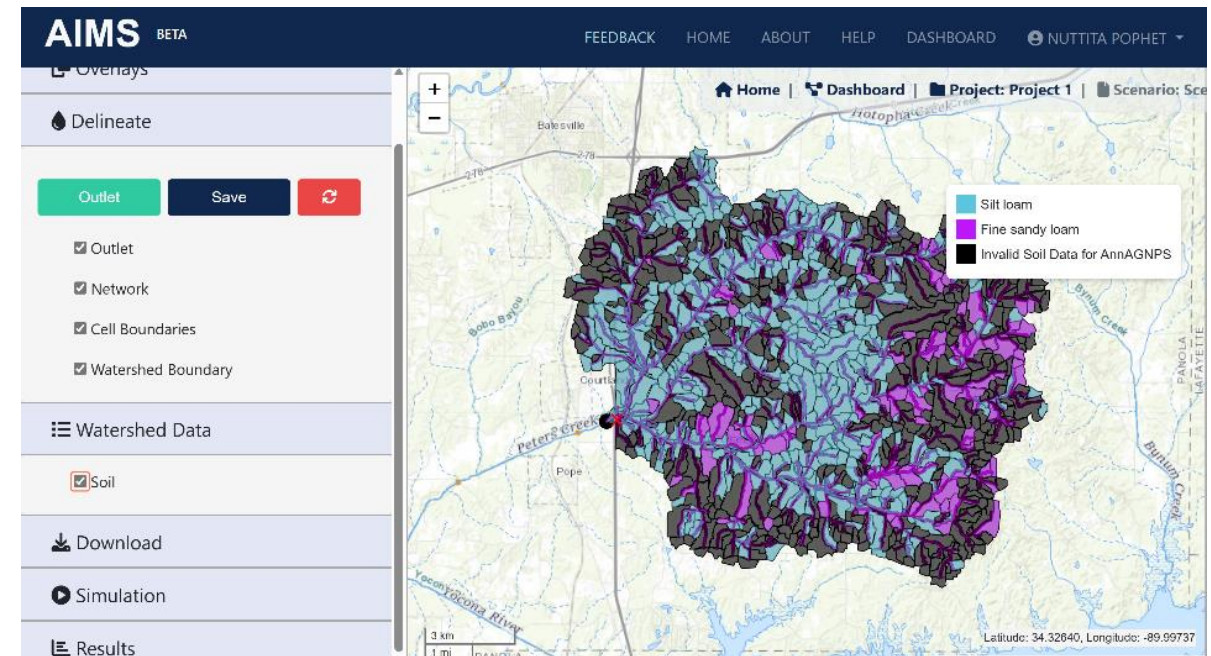
Watershed Data

You can visualize soil data by following these steps:

1. After you have delineated the watershed, navigate to the "**Watershed Data**" tab.
2. Click on the "**soil**" option.

This action will display the soil map for your watershed, including information about the soil texture.

To see specific attributes (Cell ID, Mukey, Soil Texture, Area, Elevation, and Avg Slope) for individual cells within the delineated watershed, hover your mouse over those cells.



Downloading the Data

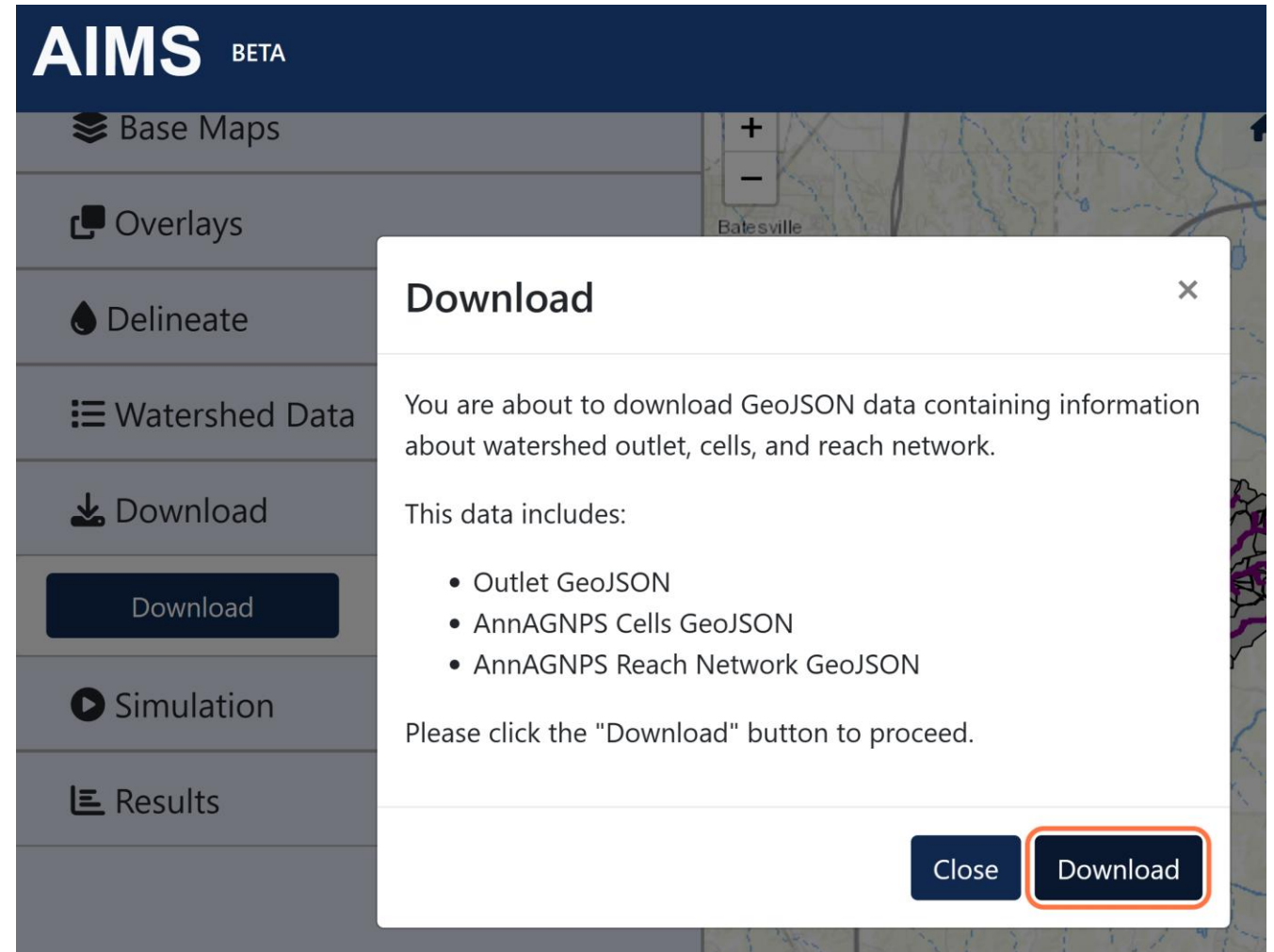
Download

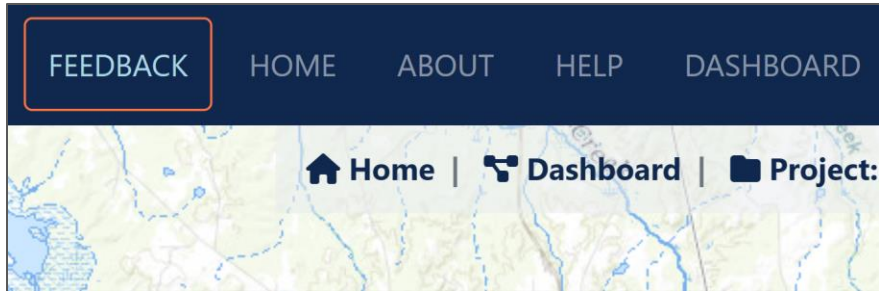
To get started with downloading, follow these steps:

1. Go to the "**Download**" tab.
2. Find the "**Download**" button and click on it.

A download window will appear. In this window, you will see options for downloading data in GeoJSON format. You can currently download data for "**Outlet,**" "**AnnAGNPS Cells,**" and "**AnnAGNPS Reach.**"

To complete the download, simply click the "**Download**" button within this window.





To provide us with feedback on using AIMS, please click on “**FEEDBACK**” in the top-right blue bar.



If you have any questions about AIMS,
please contact us at
aims@ncche.olemiss.edu