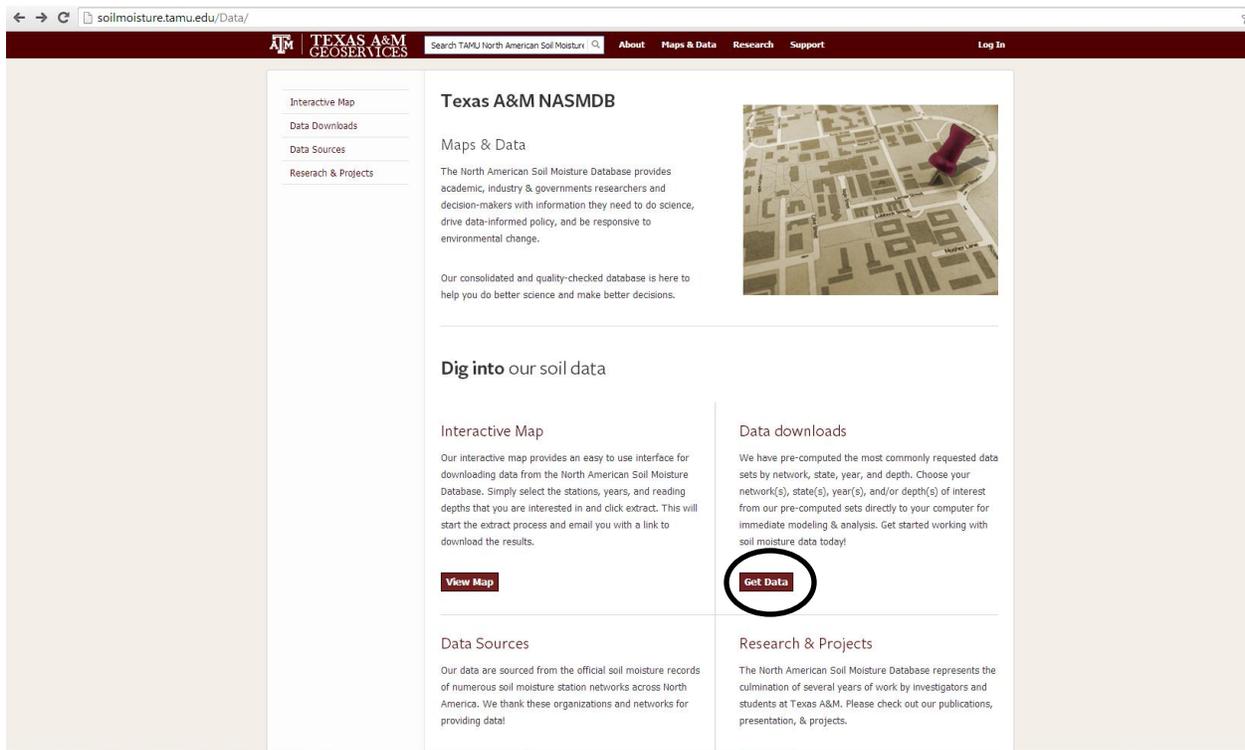


North American Soil Moisture Database Download Tutorial

The North American Soil Moisture Database (NASMD) contains the world's largest collection of *in situ* soil moisture observations in the United States, Canada and Mexico. All data is freely available online, and there are several options for downloading data. Below we provide a tutorial for selecting and extracting our soil moisture data.

Downloading all data, data by state/year/depth/network

We provide pre-selected files for download which include all of the data in the database, as well as all data separated by network, state, year, etc. This data is freely available at the website URL soilmoisture.tamu.edu/Data/. Once at the site, click on “**Get Data**” underneath the title “**Data downloads**” as shown:

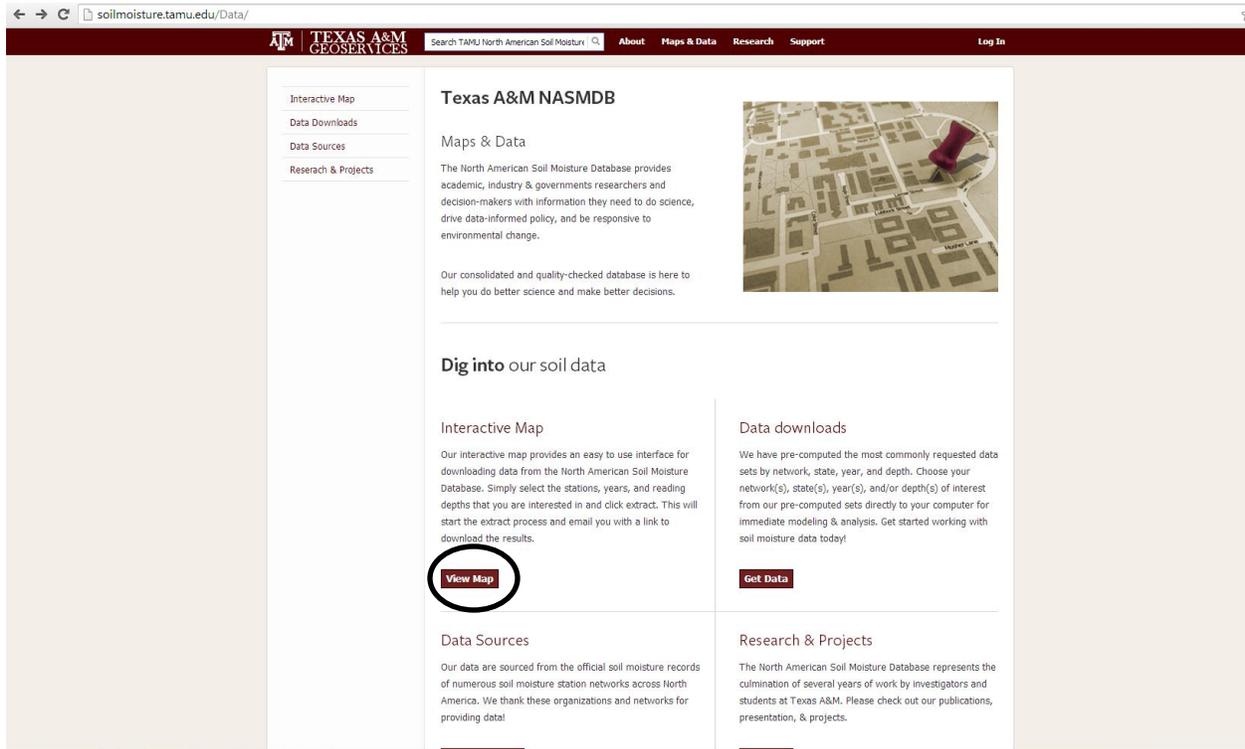


The screenshot shows the Texas A&M NASMDB website. The browser address bar displays soilmoisture.tamu.edu/Data/. The website header includes the Texas A&M Geoservices logo and navigation links: Search TAMU North American Soil Moisture, About, Maps & Data, Research, Support, and Log In. The main content area is titled "Texas A&M NASMDB" and features a "Maps & Data" section with a description of the database and a "Dig into our soil data" section. The "Dig into our soil data" section is divided into two columns: "Interactive Map" and "Data downloads". The "Data downloads" column contains a "Get Data" button, which is circled in red. Other sections include "Data Sources" and "Research & Projects".

This link will take you to a page where these pre-selected data are available. To download any of the datasets, simply click on the hyperlinked name and the download will begin. **Please note:** downloading all data in the database or all data by state/network may require significant time to fully download.

Downloading data by site or selection

If you would like to make your own custom selection of sites, or look at where stations are located in North America, you can use the Interactive Map. Navigate to the URL soilmoisture.tamu.edu/Data/. Once at the site, click on the “**View Map**” link underneath the “**Interactive Map**” heading as shown:



The screenshot shows the Texas A&M NASMDB website. The browser address bar displays soilmoisture.tamu.edu/Data/. The website header includes the Texas A&M Geoservices logo, a search bar, and navigation links for About, Maps & Data, Research, Support, and Log In. A left sidebar contains a menu with links for Interactive Map, Data Downloads, Data Sources, and Research & Projects. The main content area is titled "Texas A&M NASMDB" and features a "Maps & Data" section with a descriptive paragraph and an image of a map with a red pushpin. Below this is a "Dig into our soil data" section with two columns: "Interactive Map" and "Data downloads". In the "Interactive Map" column, the "View Map" link is circled in black. The "Data downloads" column has a "Get Data" button. At the bottom, there are sections for "Data Sources" and "Research & Projects".

This link will take you to our fully interactive map. The map will initially show up blank. You can look at where stations are located by clicking on the “**Choose Network**” drop down menu in the top left corner, as shown:

soilmoisture.tamu.edu/Data/Map/

TEXAS A&M GEOSERVICES Search TAMU North American Soil Moisture About Maps & Data Research Support Log In

North American Soil Moisture Database Interactive Map

This interactive map allows you to view & download station data from the North American Soil Moisture Database.

Choose one or more networks from the dropdown list to see station data. Use the depth & year sliders to filter. Click the extract buttons to download station data.

Choose Network Zoom to State select measurement depth range: -

Slide to select data year range: -

This will bring up a menu of all observing networks contributing data to the database. You can choose to select all networks, or select networks one at a time. Selecting a network will display the stations on the map. Once stations are displayed on the map, the names and brief information about the stations will appear below the map in a table list. You can download data from all of these stations, or a subset of these stations by selecting the checkbox next to “all” or selecting the checkboxes of individual stations as shown:

soilmoisture.tamu.edu/Data/Map/

TEXAS A&M GEOSERVICES Search TAMU North American Soil Moisture About Maps & Data Research Support **Log In**

Slide to select data year range: 1991 - 2013

17 Stations have been selected

No.	<input type="checkbox"/> All	Station	Network	Location	State
1	<input type="checkbox"/>	Larned (E1)	Atmospheric Radiation Measurement	Larned	Kansas
2	<input type="checkbox"/>	Hillsboro (E2)	Atmospheric Radiation Measurement	Hillsboro	Kansas
3	<input type="checkbox"/>	LeRoy (E3)	Atmospheric Radiation Measurement	LeRoy	Kansas
4	<input type="checkbox"/>	Halstead (E5)	Atmospheric Radiation Measurement	Halstead	Kansas
5	<input type="checkbox"/>	Towanda (E6)	Atmospheric Radiation Measurement	Towanda	Kansas
6	<input type="checkbox"/>	Elk Falls (E7)	Atmospheric Radiation Measurement	Elk Falls	Kansas
7	<input type="checkbox"/>	Coldwater (E8)	Atmospheric Radiation Measurement	Coldwater	Kansas
8	<input type="checkbox"/>	Ashton (E9)	Atmospheric Radiation Measurement	Ashton	Kansas
9	<input type="checkbox"/>	Tyro (E10)	Atmospheric Radiation Measurement	Tyro	Kansas
10	<input type="checkbox"/>	Byron (E11)	Atmospheric Radiation Measurement	Byron	Oklahoma
11	<input type="checkbox"/>	Pawhuska (E12)	Atmospheric Radiation Measurement	Pawhuska	Oklahoma
12	<input type="checkbox"/>	Lamont (E13)	Atmospheric Radiation Measurement	Lamont	Oklahoma
13	<input type="checkbox"/>	Vici (E16)	Atmospheric Radiation Measurement	Vici	Oklahoma
14	<input type="checkbox"/>	Morris (E18)	Atmospheric Radiation Measurement	Morris	Oklahoma

Please Note: before you can download any station data from our interactive map, you must log in by clicking on the “**log in**” link in the top right corner of the page, shown above. Once you create log in as an existing user, or create a new login username, you will be able to download all data from the interactive map.

Once logged in and having stations selected, you can click the “**Extract Checked Stations**” link at the bottom of the page as shown:

soilmoisture.tamu.edu/Data/Map/

TEXAS A&M GEOSERVICES Search TAMU North American Soil Moisture About Maps & Data Research Support Trent Ford

Slide to select data year range: 1991 - 2013

58 Stations have been selected

No.	All	Station	Network	Location	State
1	<input type="checkbox"/>	Anaktuvuk River Severe Burn	AmeriFlux	Anaktuvuk Pass	Alaska
2	<input type="checkbox"/>	Anaktuvuk River Unburned	AmeriFlux	Anaktuvuk Pass	Alaska
3	<input type="checkbox"/>	Delta Junction 1920 Control	AmeriFlux	Fort Greely	Alaska
4	<input type="checkbox"/>	Delta Junction 1987 Burn	AmeriFlux	Delta Junction	Alaska
5	<input type="checkbox"/>	Delta Junction 1999 Burn	AmeriFlux	Fort Greely	Alaska
6	<input type="checkbox"/>	Innavait Creek Watershed Heath Tundra	AmeriFlux	Anaktuvuk Pass	Alaska
7	<input type="checkbox"/>	Innavait Creek Watershed Wet Sedge Tundra	AmeriFlux	Anaktuvuk Pass	Alaska
8	<input type="checkbox"/>	Flagstaff Managed Forest	AmeriFlux	Flagstaff	Arizona
9	<input type="checkbox"/>	Flagstaff Unmanaged Forest	AmeriFlux	Flagstaff	Arizona
10	<input type="checkbox"/>	Flagstaff Wildfire	AmeriFlux	Flagstaff	Arizona
11	<input type="checkbox"/>	Santa Rita Creosote	AmeriFlux	Sahuarita	Arizona
12	<input type="checkbox"/>	Santa Rita Mesquite Savanna	AmeriFlux	Sahuarita	Arizona
13	<input type="checkbox"/>	Blodgett Forest	AmeriFlux	Georgetown	California
14	<input type="checkbox"/>	Sherman Island	AmeriFlux	Rio Vista	California
15	<input type="checkbox"/>	Tonzi Ranch	AmeriFlux	Ione	California
16	<input type="checkbox"/>	Twitchell Island	AmeriFlux	Isleton	California
17	<input type="checkbox"/>	Vaira Ranch	AmeriFlux	Ione	California
18	<input type="checkbox"/>	Great Mountain Forest	AmeriFlux	Norfolk	Connecticut
19	<input type="checkbox"/>	Florida Everglades Shark River Slough Mangrove Forest	AmeriFlux	Homestead	Florida
20	<input type="checkbox"/>	Florida Everglades Taylor Slough Short Hydroperiod Marsh	AmeriFlux	Homestead	Florida

Extract Checked Stations

Extract All Selected Stations

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Please Note: only click this link once, as multiple clicks will extract data multiple times. Once you click the link, a notice will pop up saying your data request has been queued. At that time, you will receive an email notifying you of your data request. After some time, dependent on the size of your request, you will receive a second email notifying you that your request has been completed. In this email, a link to a zip file will be provided; clicking on this link will begin your data download.

We are always looking for feedback and recommendations for the North American Soil Moisture Database and website. If you have any further questions or issues, please feel free to contact us by using our contact system under the “**Support**” heading at the top of the page.