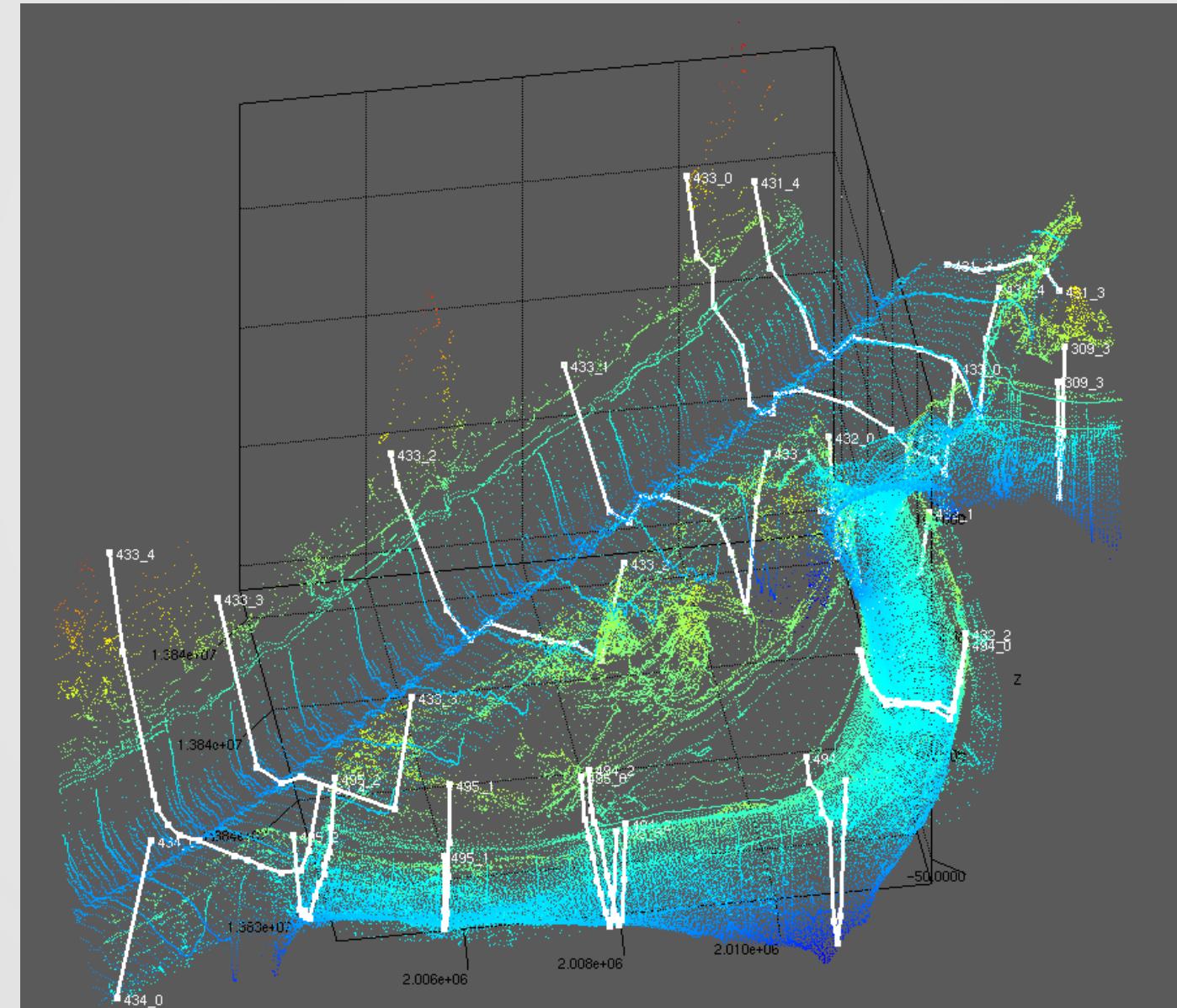


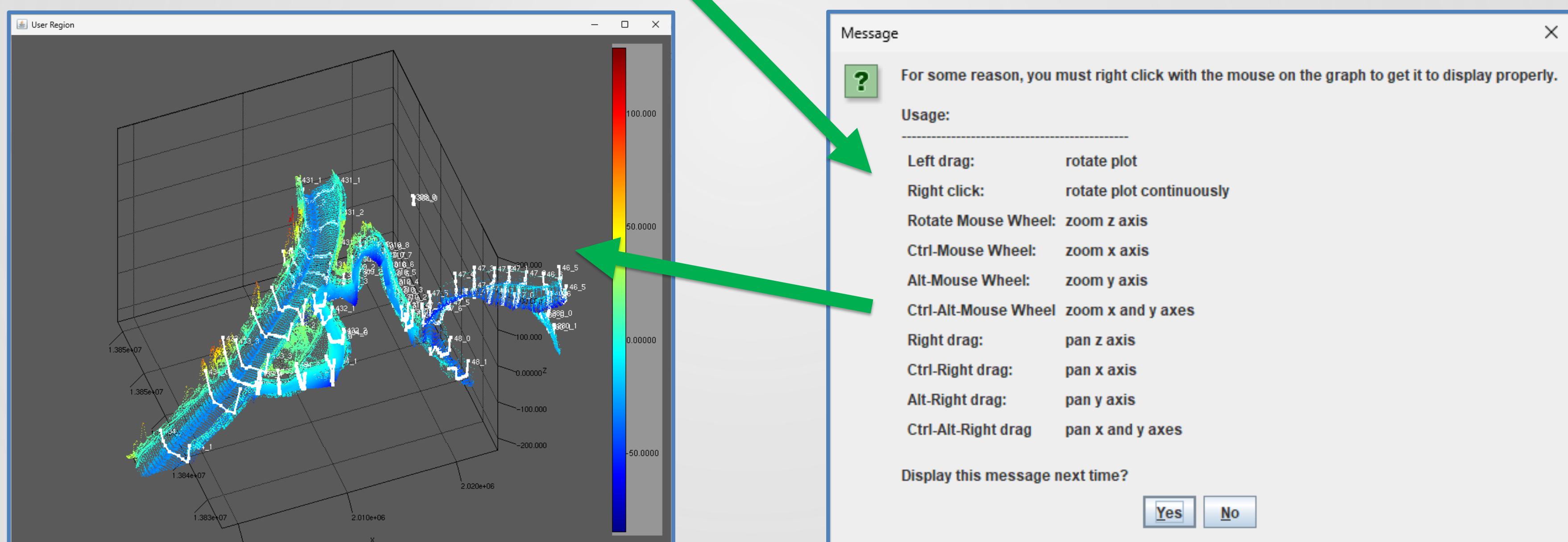
# DSM2 CSDP Quick Start: Technical Setup

November 19, 2025



# Prerequisites

- Recommended: experience modifying DSM2 input files and running DSM2, and/or “DSM2 Quick Start Training, Technical Setup, Introduction, and Sessions 1-3: <https://www.youtube.com/playlist?list=PL33EJkVWqEIXUihYnGzA9E5BocWu-Deij>
- Laptop with Windows
- Mouse with a wheel recommended



# Software download links

## Data and software for the workshop

- CSDP:
  - <https://data.cnra.ca.gov/dataset/dsm2-cross-section-development-program-csdp>
- DSM2 Input 2025-07-03 historical update
  - <https://data.cnra.ca.gov/dataset/dsm2-input-2025-07-03-historical-update>
- DSM2 v8.4.1
  - <https://data.cnra.ca.gov/dataset/dsm2-input-2025-07-03-historical-update>
- CSDP data files
  - [https://github.com/CADWRDeltaModeling/DSM2LearningSeries/tree/main/csdp\\_quick\\_start](https://github.com/CADWRDeltaModeling/DSM2LearningSeries/tree/main/csdp_quick_start)
- Text editor, such as Visual Studio Code, Notepad, Notepad++



Older versions  
of DSM2 will  
work

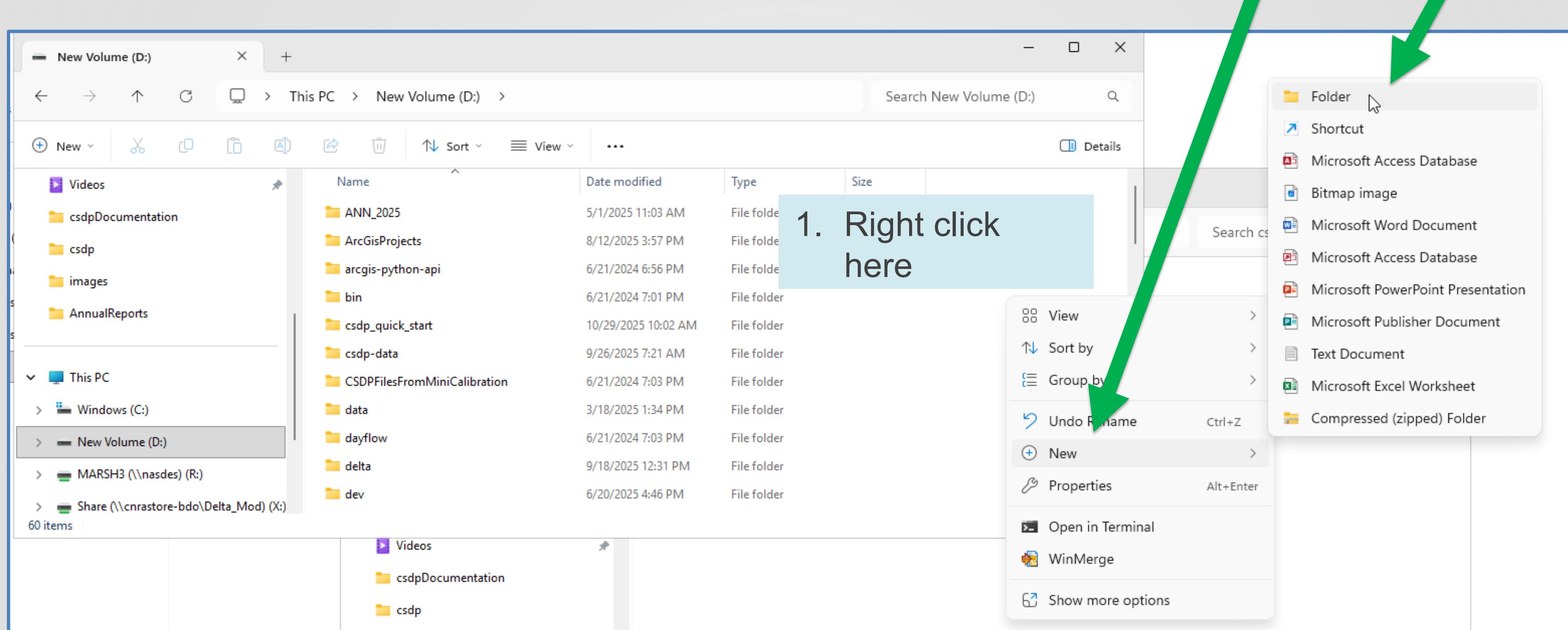
## Optional data/software

- CSDP bathymetry files for DSM2 input 2025-07-03 historical update:
  - <https://data.cnra.ca.gov/dataset/dsm2-input-2025-07-03-historical-update>
- File/Folder comparison tool: WinMerge or a similar tool
  - <https://winmerge.org/>
- HEC DSSVue
  - <https://www.hec.usace.army.mil/software/hec-dssvue/downloads.aspx>

# Create a folder for workshop files

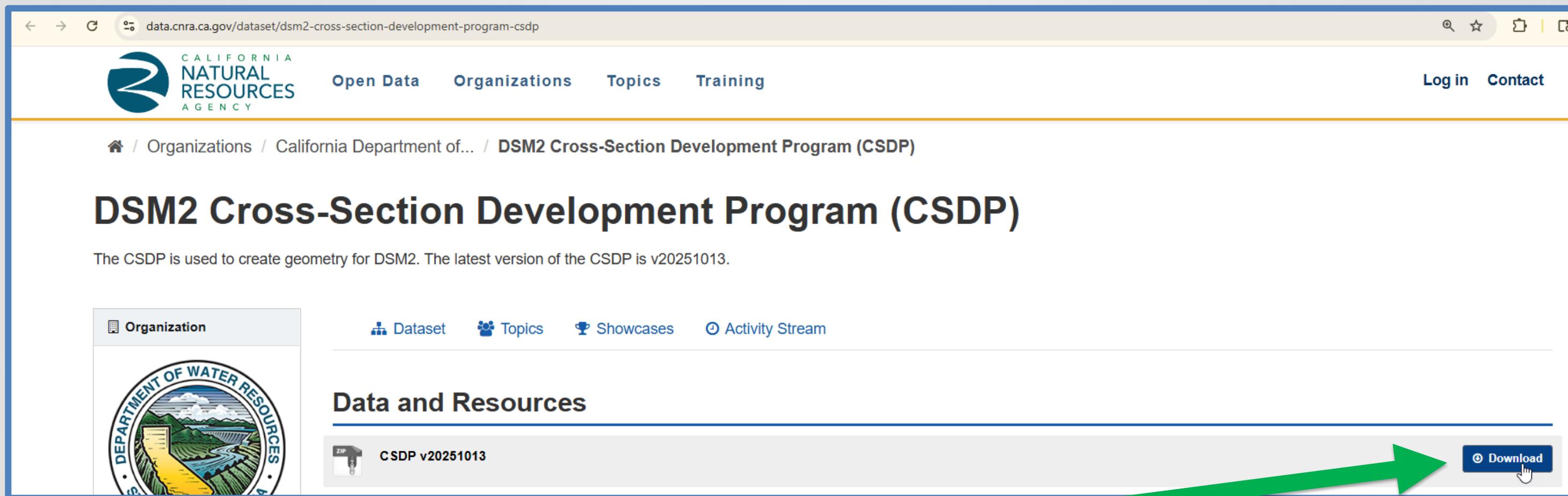
1. In Windows Explorer, create a new folder (right click on window, enter a name)

2. Select New-Folder



# Download CSDP

1. Go to: <https://data.cnra.ca.gov/dataset/dsm2-cross-section-development-program-csdp>



2. Click the “Download” button

# Download DSM2

1. Go to: <https://data.cnra.ca.gov/dataset/dsm2-input-2025-07-03-historical-update>

The screenshot shows the California Department of Water Resources Data and Resources page. On the left is the department's logo featuring a circular emblem with "DEPARTMENT OF WATER RESOURCES" at the top and "STATE OF CALIFORNIA" at the bottom, depicting a landscape with mountains, water, and a bridge. To the right of the logo are navigation links: "Organization" (highlighted in grey), "Dataset" (with a grid icon), "Topics" (with a people icon), "Showcases" (with a trophy icon), and "Activity Stream" (with a circular arrow icon). Below these is a section titled "Data and Resources". Under this section, there are two items: "DSM2 Input 2025-07-03 historical update" (with a ZIP file icon) and "DSM2 v8.4.1" (with a ZIP file icon). Each item has a "Download" button (blue rectangle with white text) and a "Go to resource" button (blue rectangle with white text and a small checkmark icon). Two large green arrows originate from the bottom left of the image and point diagonally upwards towards the "Download" buttons for each item.

Organization

Dataset Topics Showcases Activity Stream

## Data and Resources

 **DSM2 Input 2025-07-03 historical update** 🔥  
DSM2 Version "DSM2 Input 2025-07-03 historical update" is based on "DSM2..."

 **DSM2 v8.4.1** 🔥

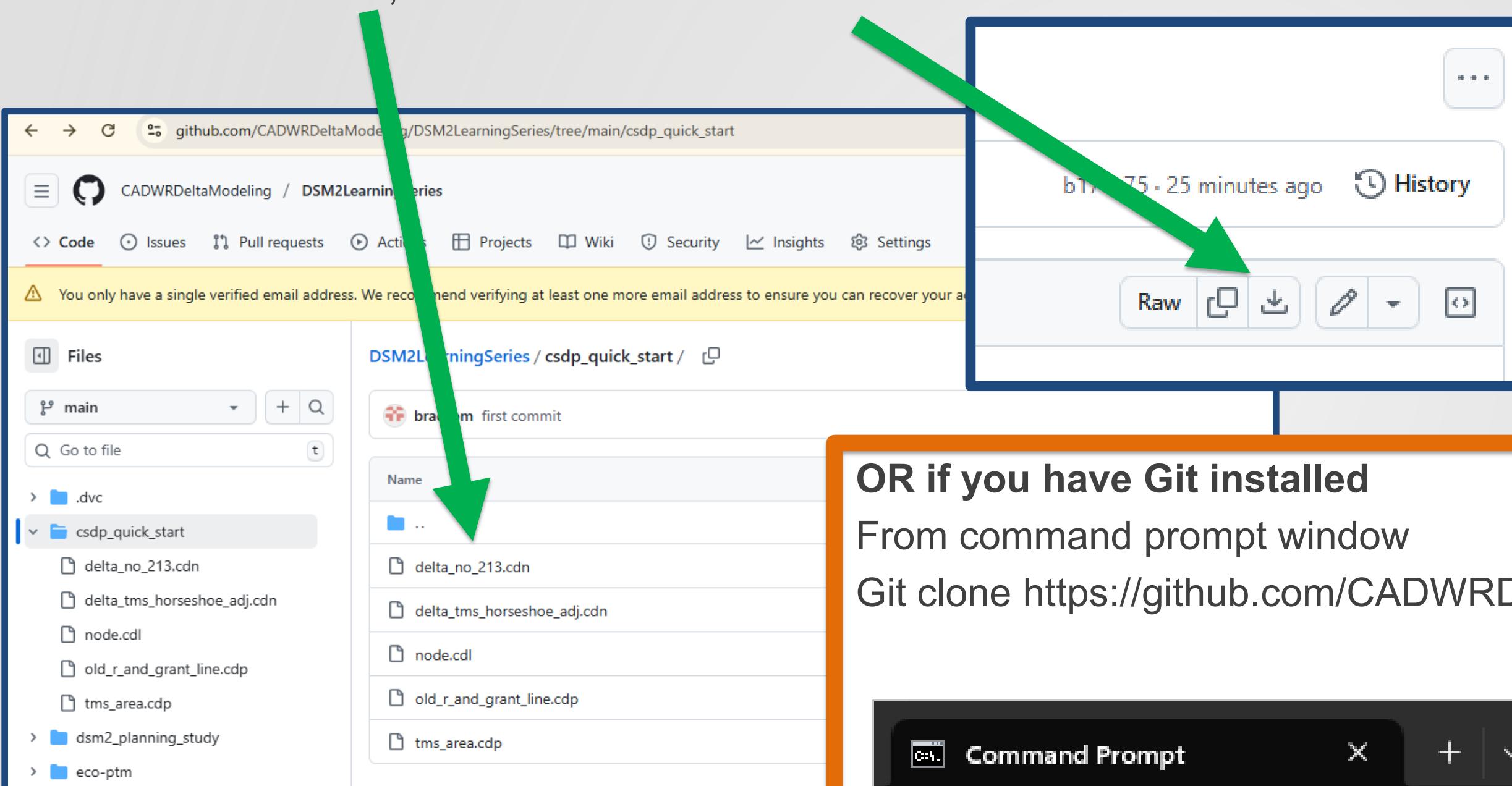
 Download

 Go to resource

1. Click the “Download” buttons to download DSM2 input and executables

# Download CSDP data files

1. Go to: <https://github.com/CADWRDeltaModeling/DSM2LearningSeries/tree/main>
2. Click on the **csdp\_quick\_start** folder
3. Click on each file, then click the **download icon** to download



**OR if you have Git installed**  
From command prompt window  
Git clone <https://github.com/CADWRDeltaModeling/DSM2LearningSeries>

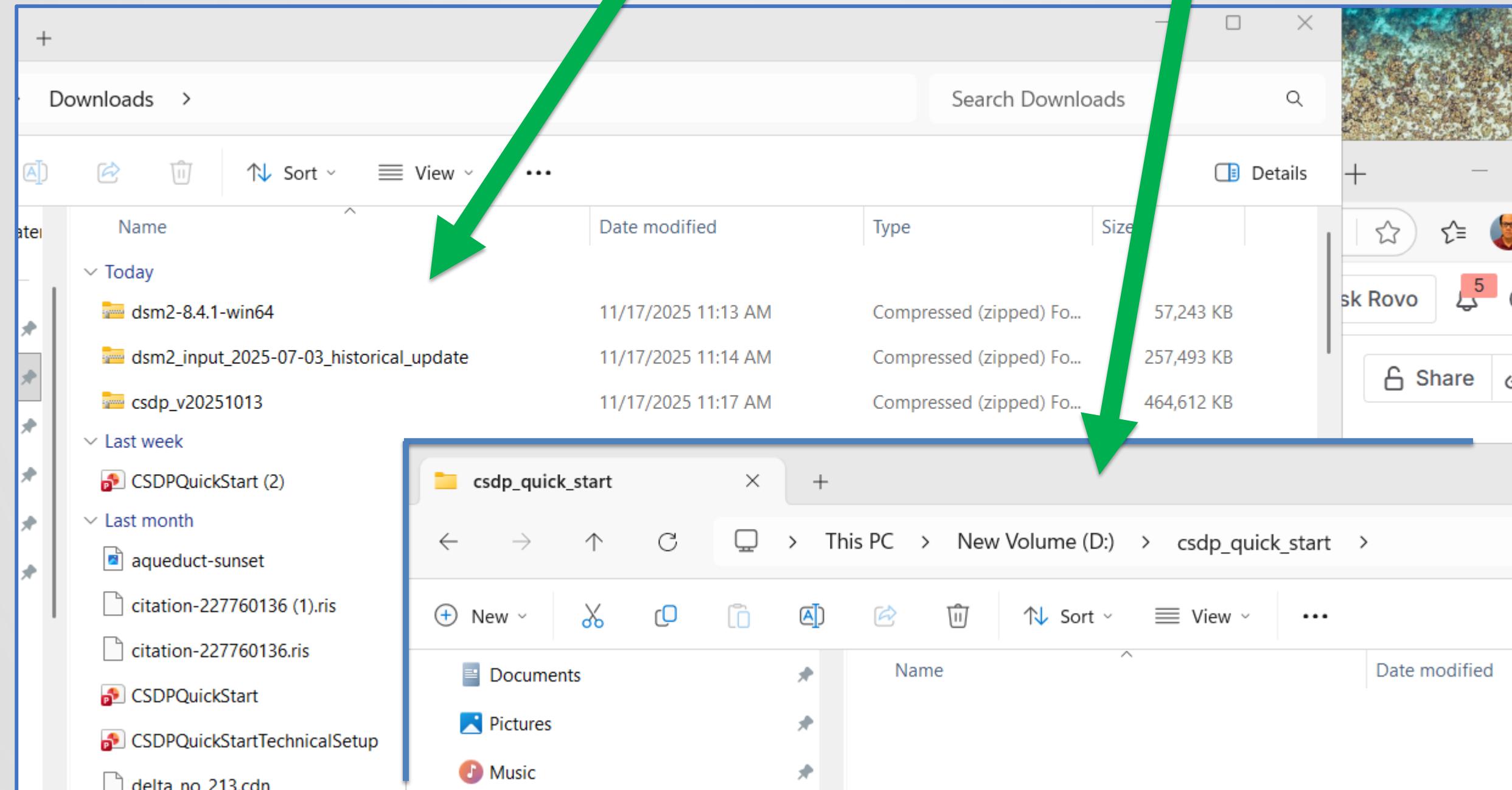
```
D:\temp>
D:\temp>
D:\temp>git clone https://github.com/CADWRDeltaModeling/DSM2LearningSeries
Cloning into 'DSM2LearningSeries'...
remote: Enumerating objects: 52781, done.
```

# Unzip files – open windows explorers

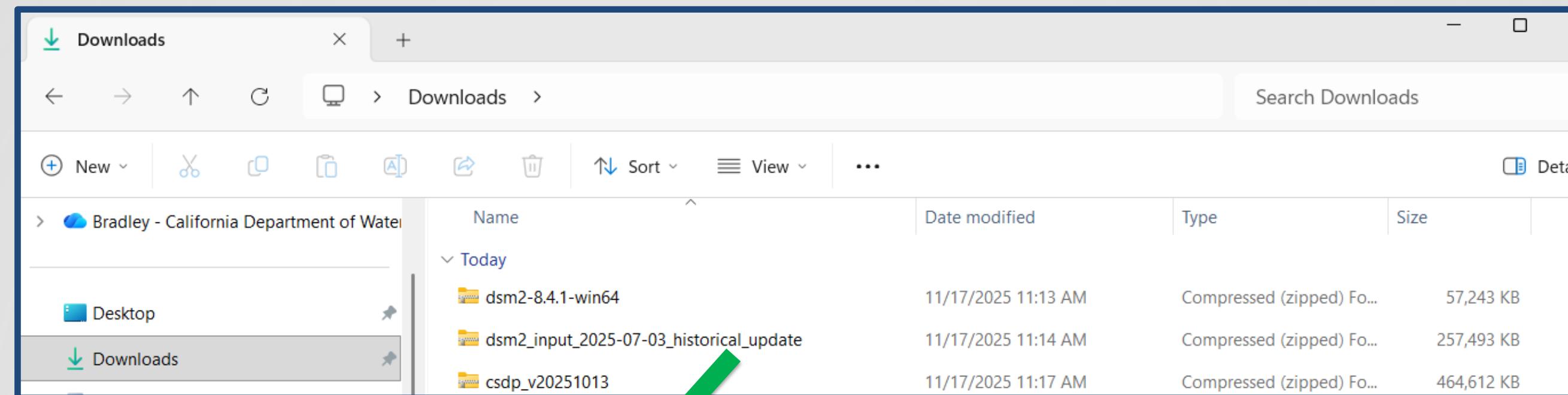
## 1. Open two Windows Explorers

1. In the first, navigate to your “Downloads Folder”

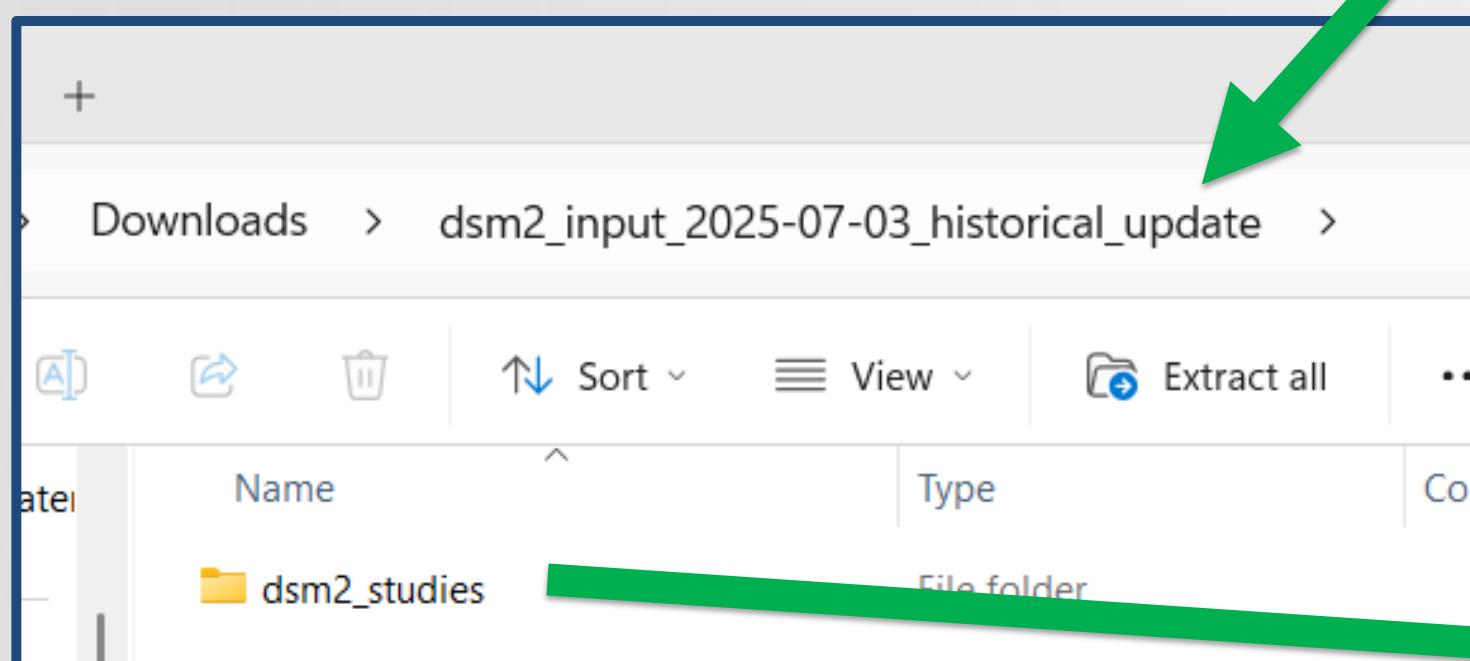
2. In the second, navigate your new folder



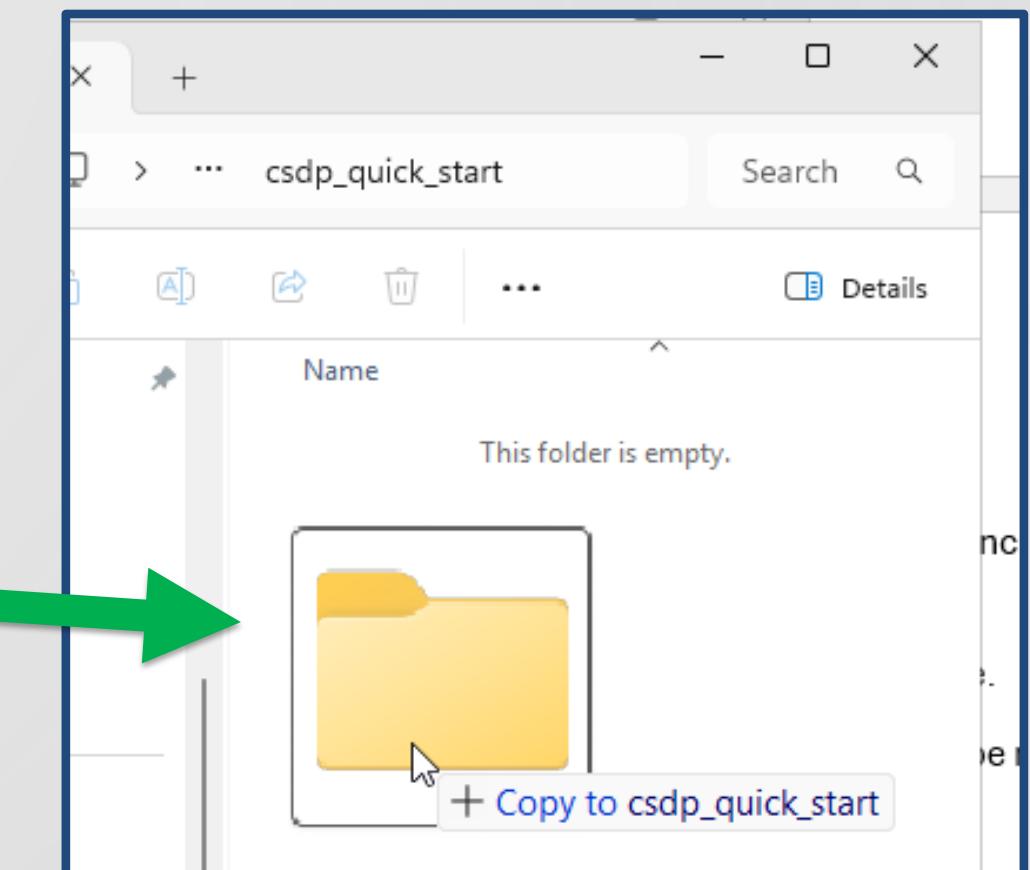
# Unzip files



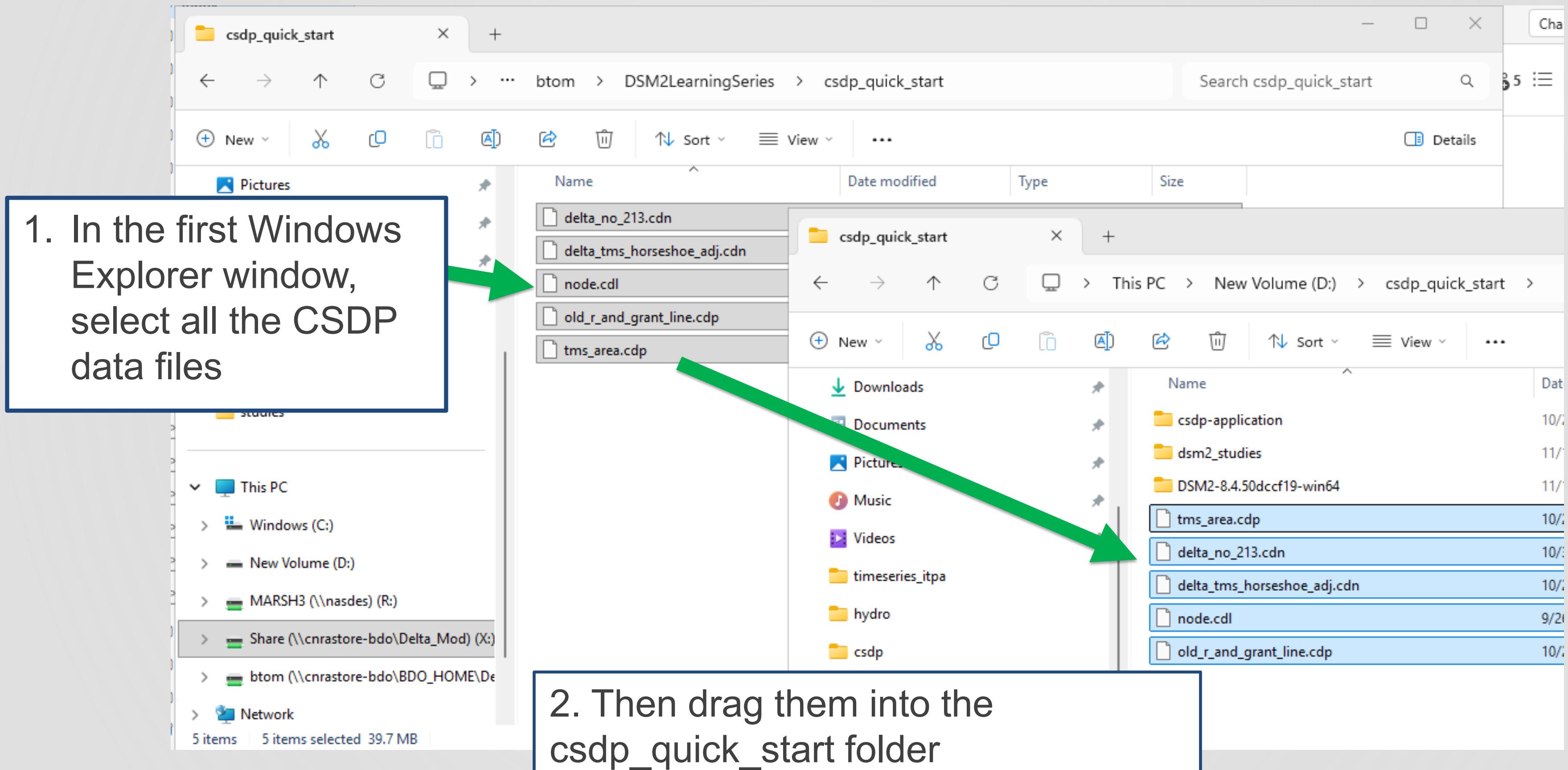
1. In the first Windows Explorer window,  
double click on each zip file,



2. Then drag the contents into the  
second Windows Explorer window

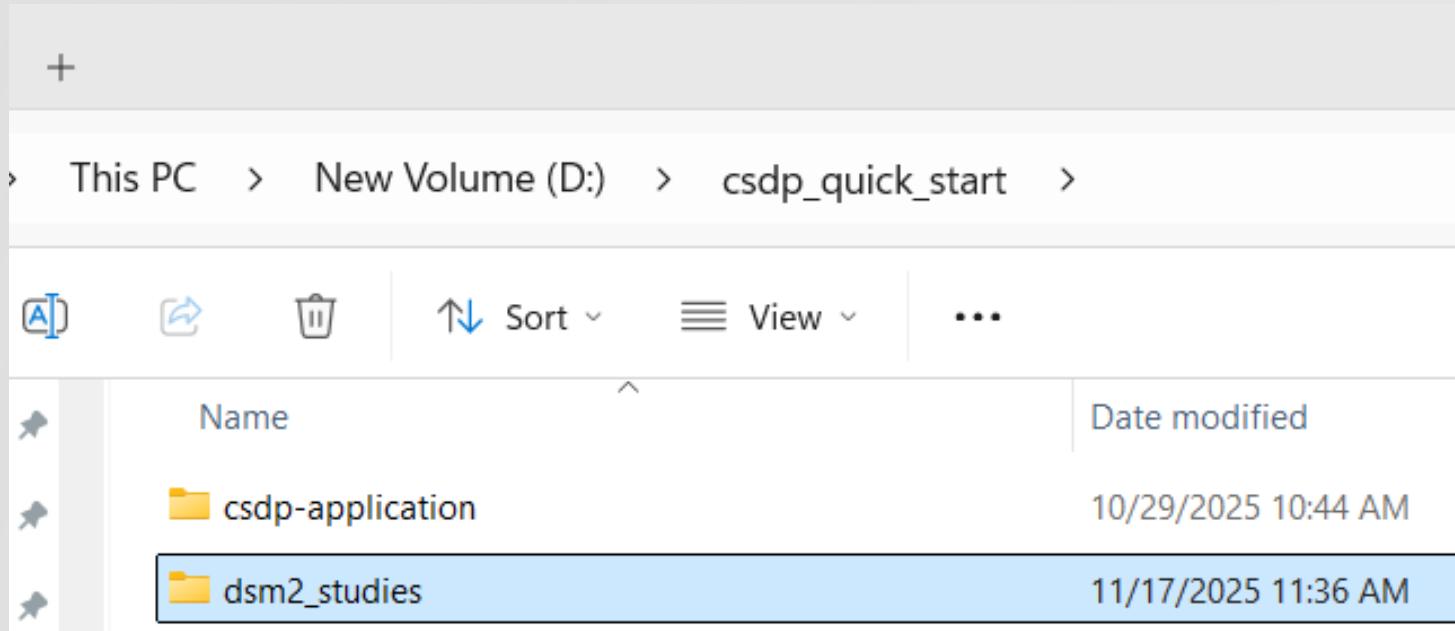


# Move CSDP data files into new folder

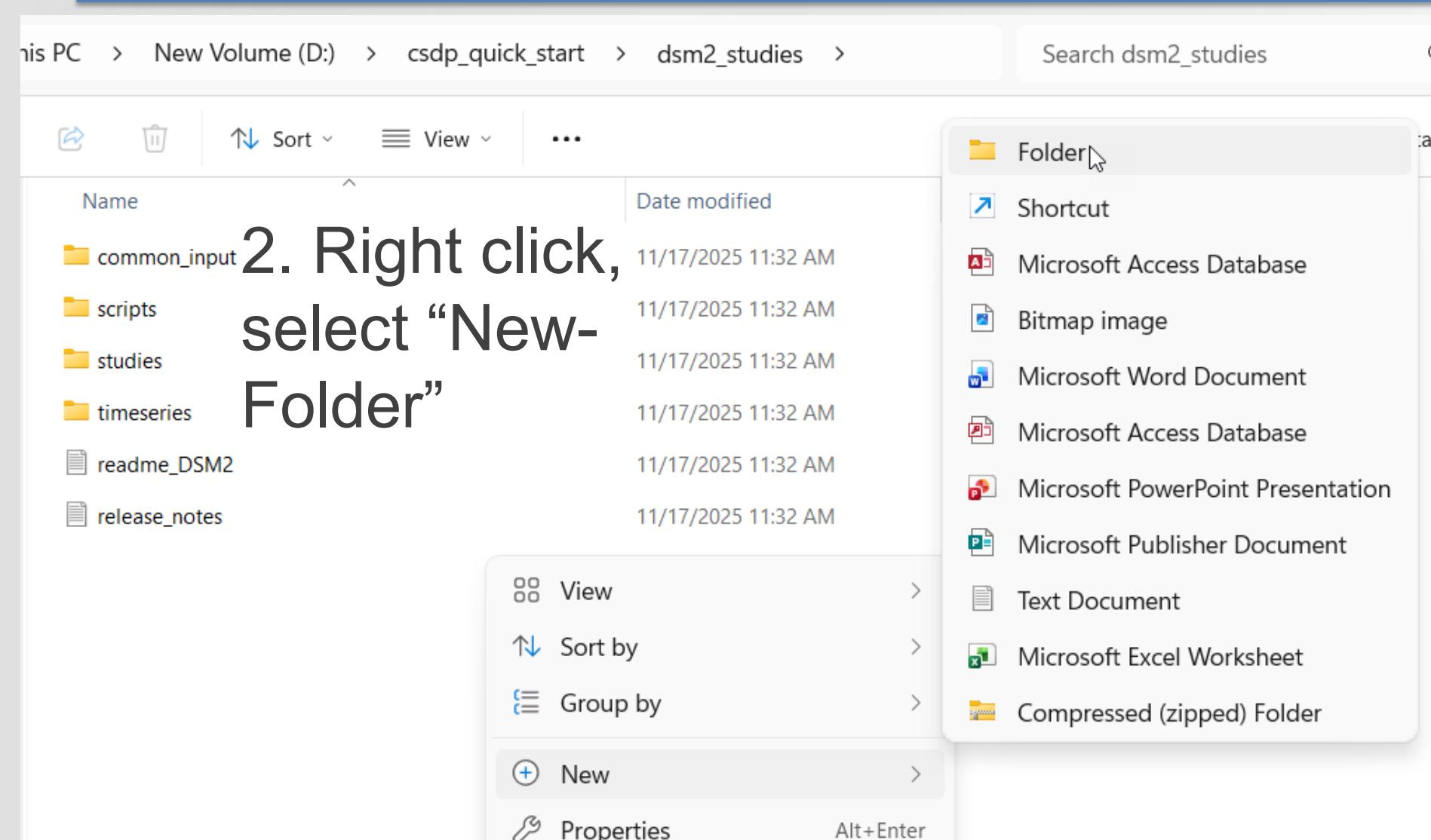


# Set up DSM2 folder

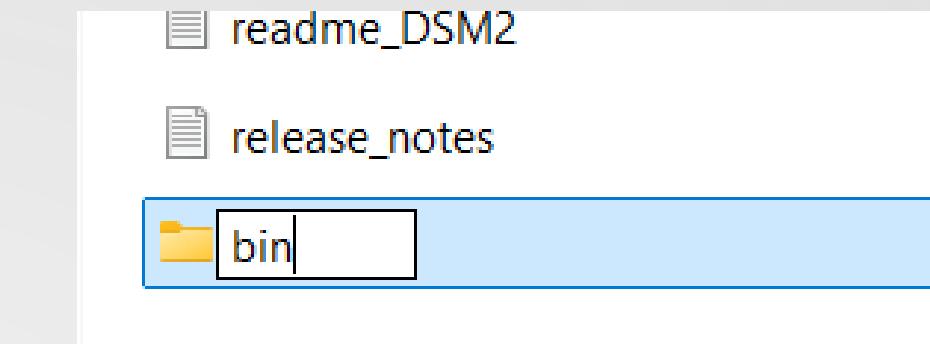
1. Double click on the **dsm2\_studies** folder



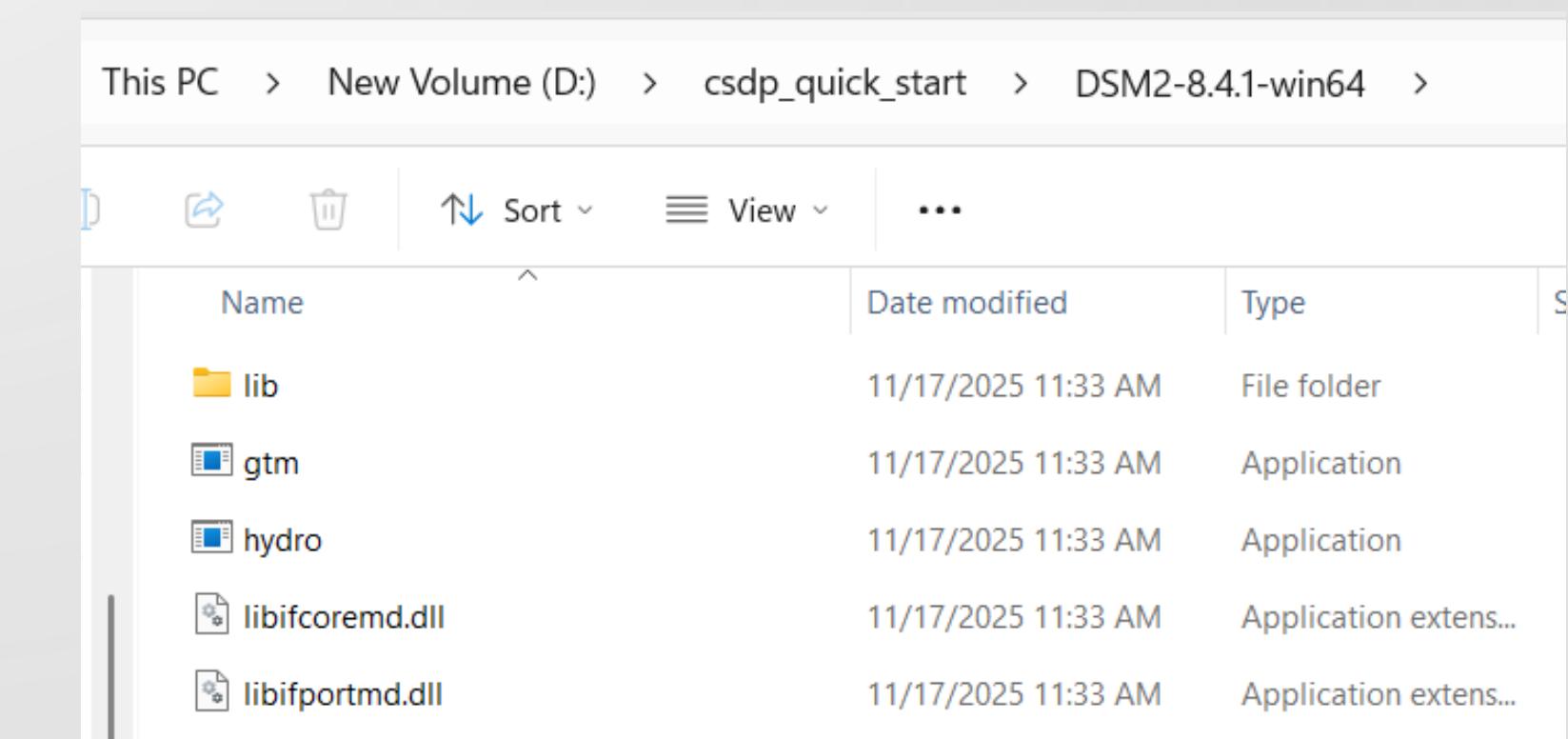
2. Right click,  
select “New-  
Folder”



3. Name the folder “bin”

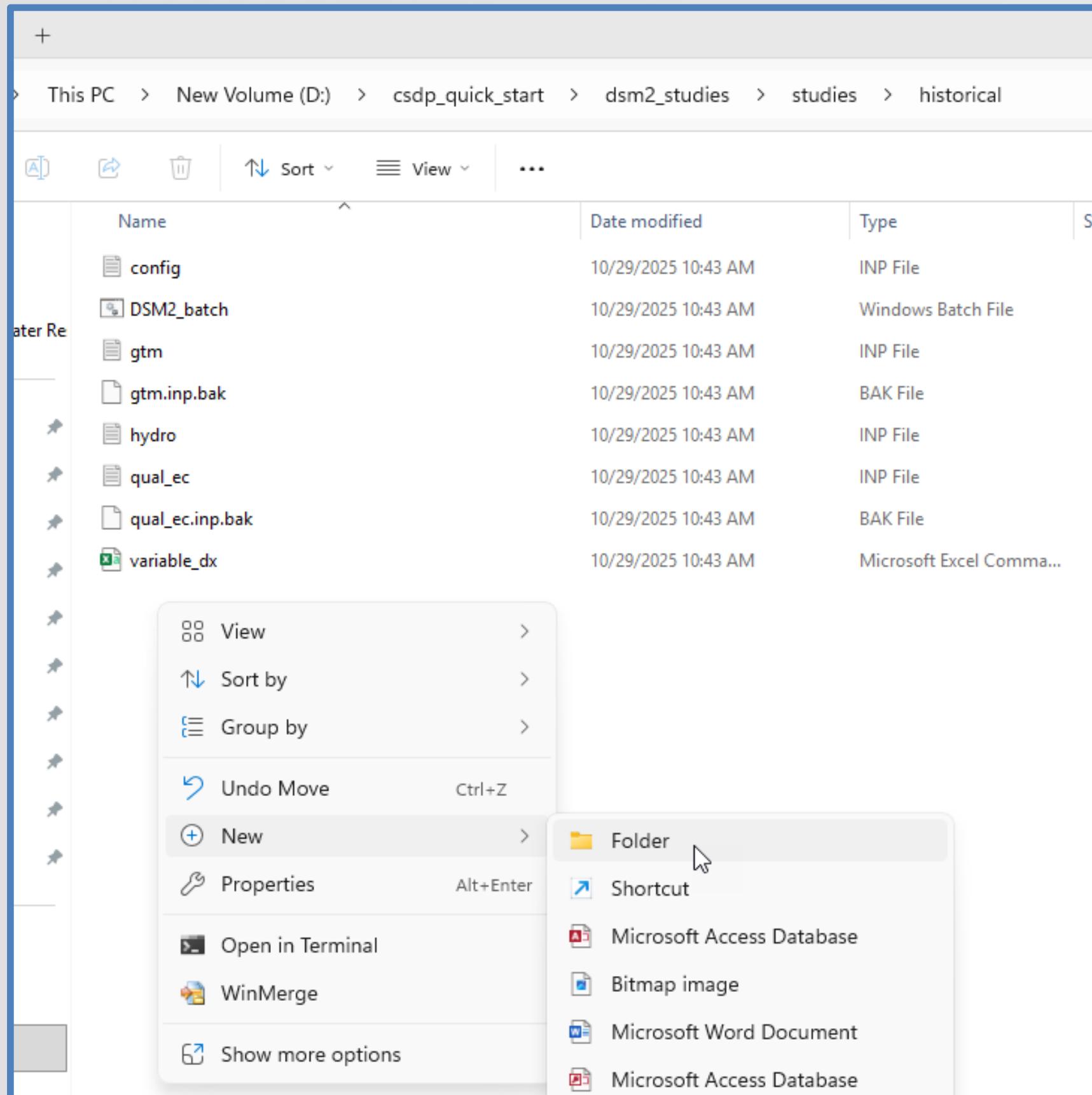


4. Copy the contents of DSM2-8.4.1-win64  
into the bin folder

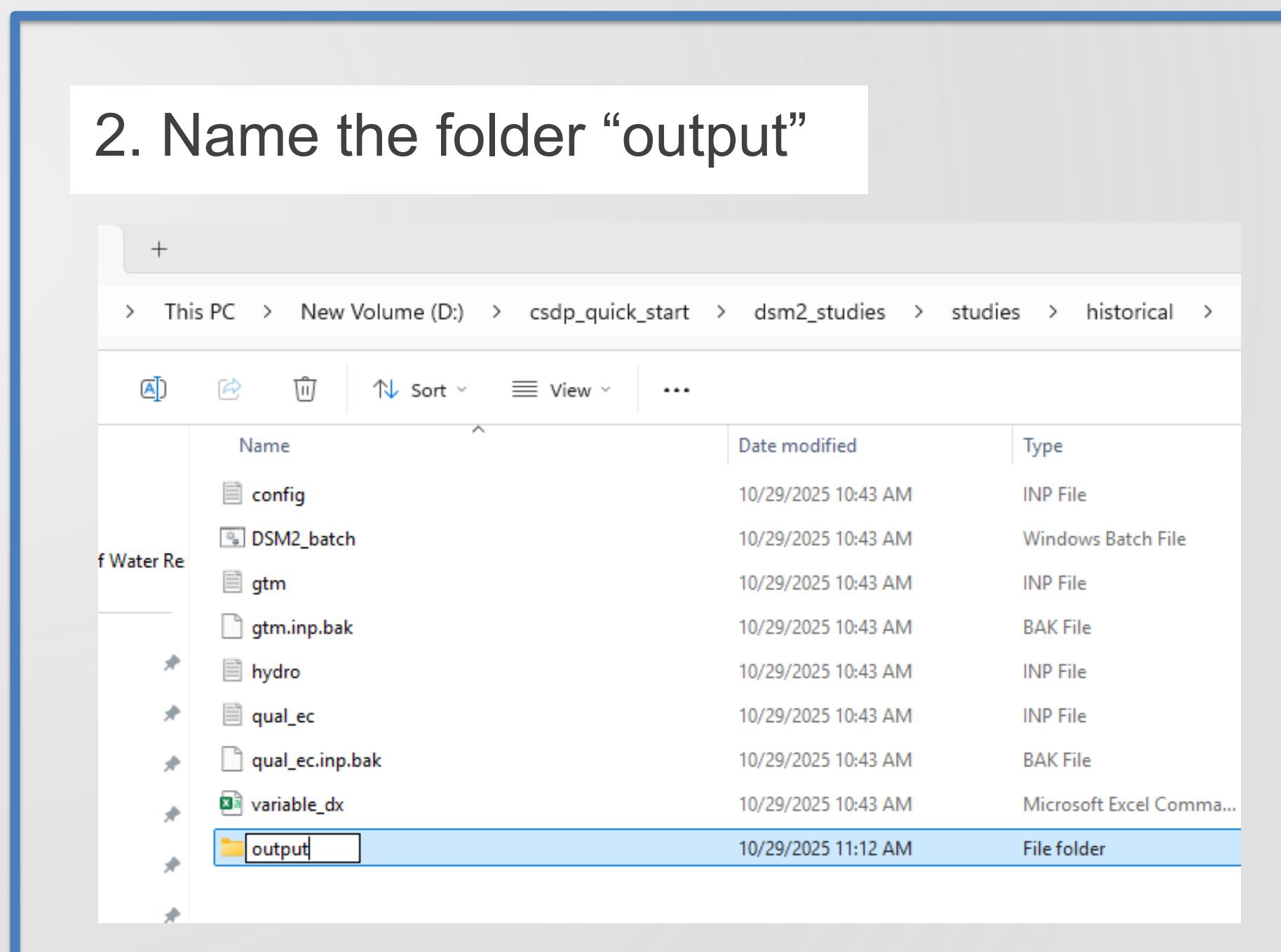


# Set up DSM2 historical study folder

## 1. Navigate to dsm2\_studies\studies\historical folder



## 2. Name the folder “output”



# Verify that DSM2 runs

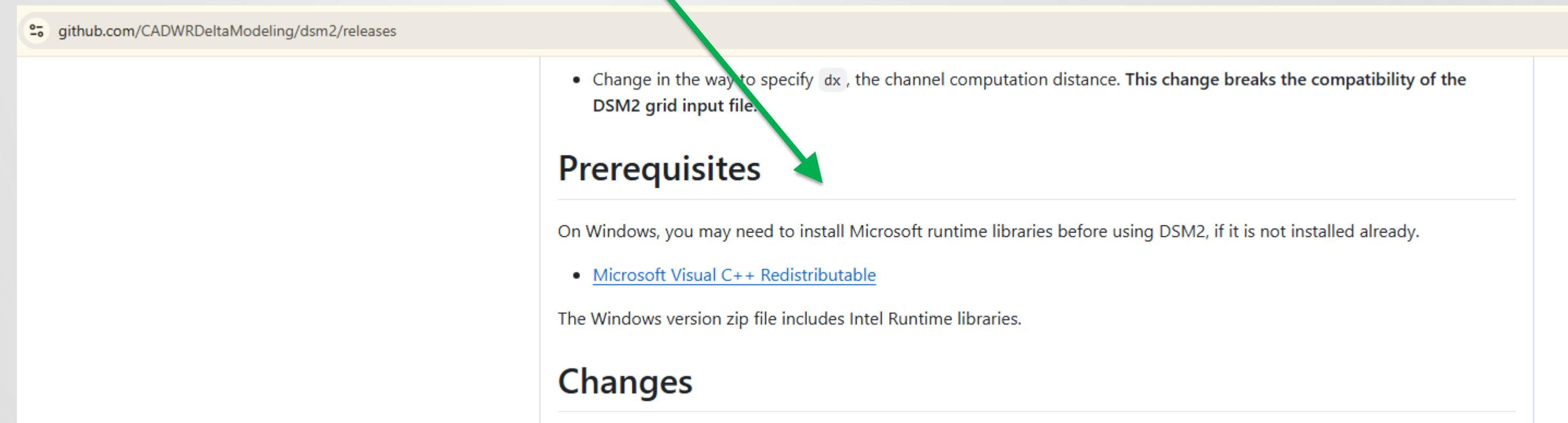
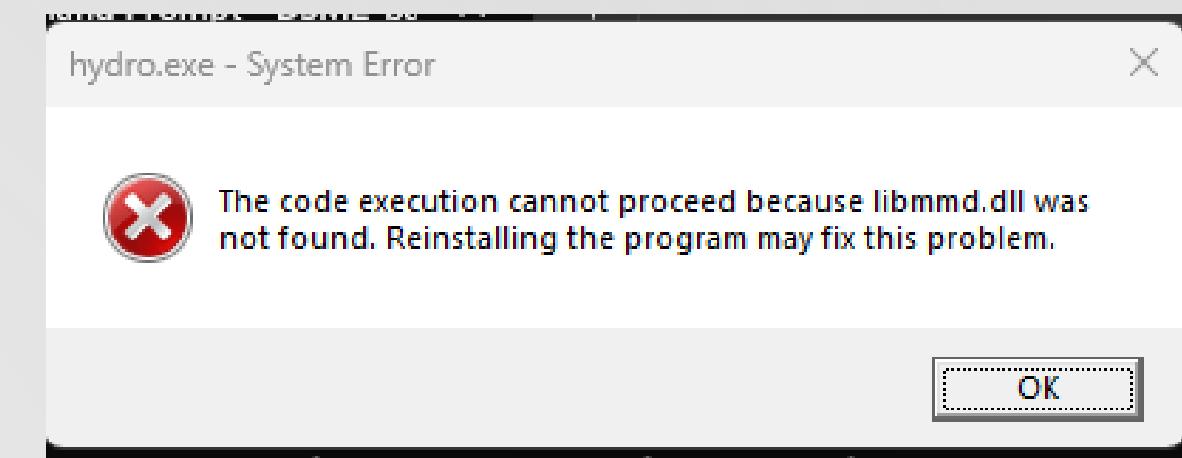
1. Open a command prompt window
2. cd to your dsm2\_studies\studies\historical\ folder
3. Execute **DSM2\_batch.bat**
4. Ctrl-C ctrl-c if you want to stop the run

```
Delta Simulation Model 2: A river and estuary simulation model
Copyright (C) 1996-2009 State of California,
Department of Water Resources.
Licensed under the GNU Public License.

DSM2-Hydro Version v8.4.2
Number of operating rule expressions processed: 5
Number of operating rules processed: 87
Starting DSM2-Hydro at time: 31AUG2014 2400
Note: at 01SEP2014 0215 network iterations at maximum ( 20).
Starting Hydro computations for time: 01SEP2014 2400
Starting Hydro computations for time: 02SEP2014 2400
Starting Hydro computations for time: 03SEP2014 2400
Starting Hydro computations for time: 04SEP2014 2400
Starting Hydro computations for time: 05SEP2014 2400
Starting Hydro computations for time: 06SEP2014 2400
Starting Hydro computations for time: 07SEP2014 2400
Starting Hydro computations for time: 08SEP2014 2400
Starting Hydro computations for time: 09SEP2014 2400
Starting Hydro computations for time: 10SEP2014 2400
forrtl: error (200): program aborting due to control-C event
Image          PC            Routine         Line      Source
KERNELBASE.dll    00007FFDE930C1BD Unknown           Unknown  Unknown
KERNEL32.DLL      00007FFDEB08E8D7 Unknown           Unknown  Unknown
ntdll.dll        00007FFDEBEAC53C Unknown           Unknown  Unknown
Terminate batch job (Y/N)? y
(base) PS D:\csdp_quick_start\dsm2_studies\studies\historical> |
```

# Verify that DSM2 runs

1. If you get dll not found error messages, go to <https://github.com/CADWRDeltaModeling/dsm2/releases> and download and install the **Microsoft Visual C++ Redistributable**.
2. You may also need the **Intel Fortran Compiler Runtime for Windows**.



github.com/CADWRDeltaModeling/dsm2/releases

• Change in the way to specify `dx`, the channel computation distance. This change breaks the compatibility of the DSM2 grid input file.

## Prerequisites

On Windows, you may need to install Microsoft runtime libraries before using DSM2, if it is not installed already.

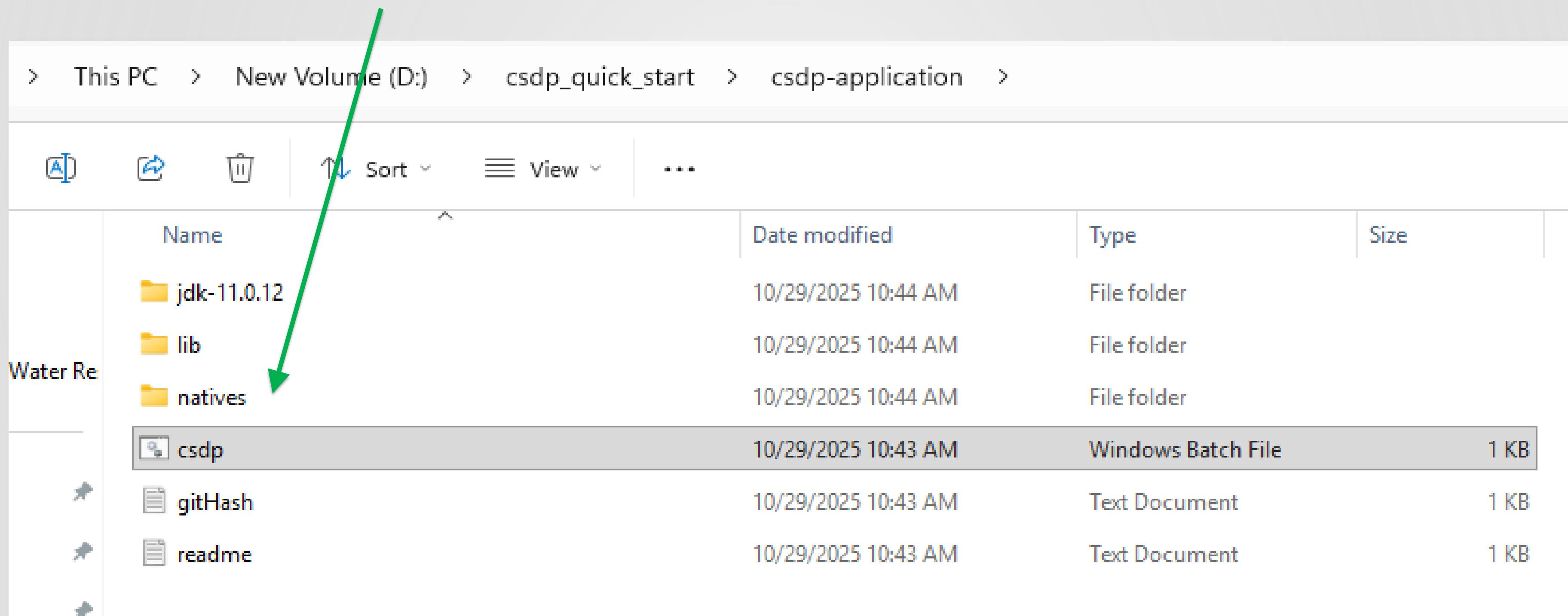
- [Microsoft Visual C++ Redistributable](#)

The Windows version zip file includes Intel Runtime libraries.

## Changes

# Start CSDP

Double click on “csdp” file



# Test CSDP loading data files

The screenshot illustrates the process of loading data files into the CSDP software. It is divided into two main sections:

**Top Section (Version 2025-06-11):**

- 1. Load bathymetry file**  
tms\_area.cdp
- 2. Load landmark file**  
node.cdl
- 3. Load network file**  
delta\_tms\_horseshoe\_adj.cdn

Each step has a green arrow pointing from it to a corresponding button or menu item in the software interface. The "bath" button is highlighted in yellow.

**Bottom Section (Version 2025-10-13):**

- 1. Load bathymetry file**  
tms\_area.cdp
- 2. Load landmark file**  
node.cdl
- 3. Load network file**  
delta\_tms\_horseshoe\_adj.cdn

A large green arrow points from the bottom section towards a file selector dialog window.

**File Selector Dialog (Right):**

Select bathymetry(.prn, .cdp, .cdp.gz) file

Look In: csdp\_quick\_start

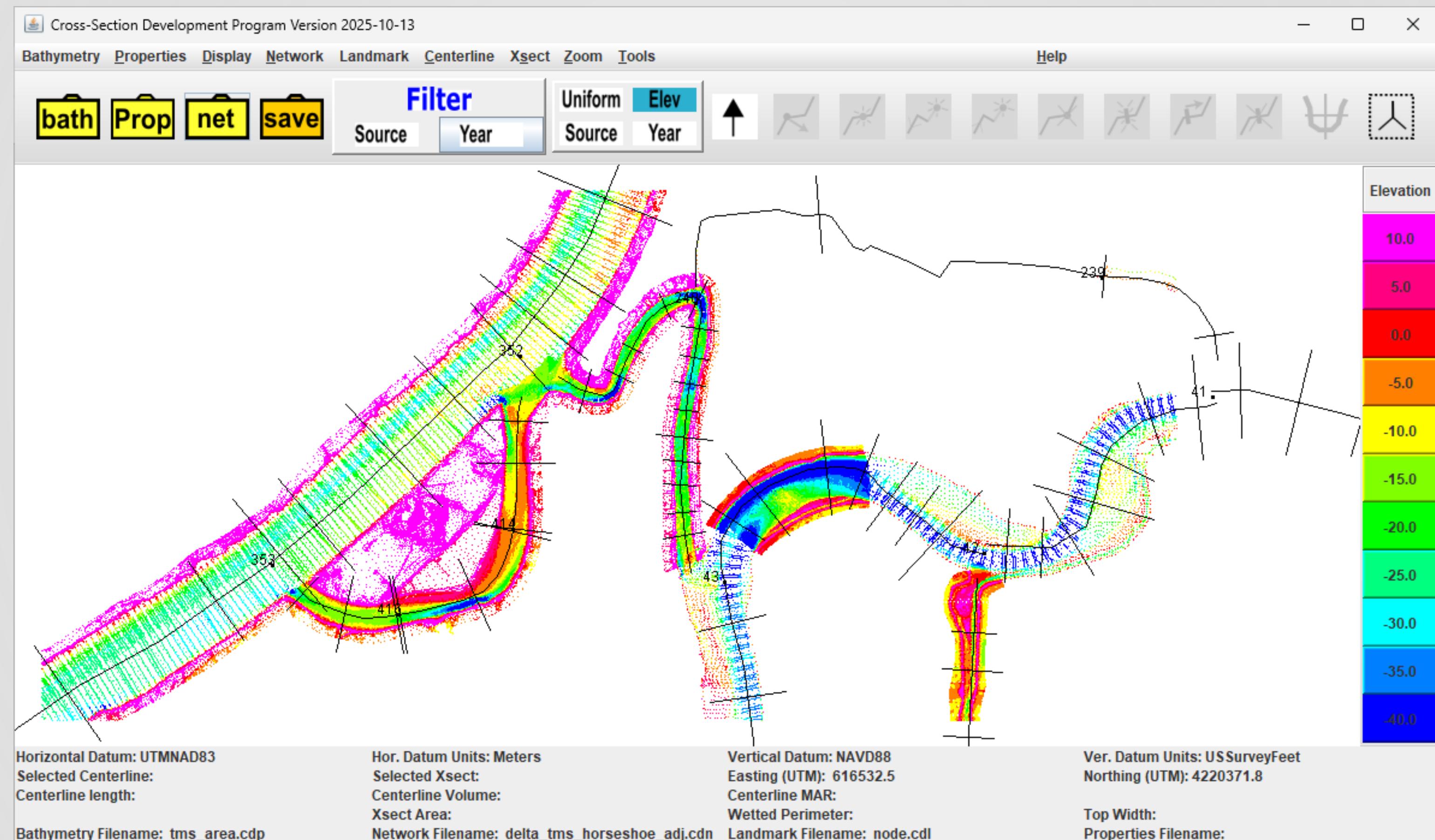
File Name: tms\_area.cdp

Files of Type: Filetypes: \*.prn, \*.cdp, \*.cdp.gz

Open Cancel

A callout box with a green border contains the text: "Choose each file using the file selector dialog".

# Test CSDP loading data files



# Questions?



Bradley.Tom@water.ca.gov