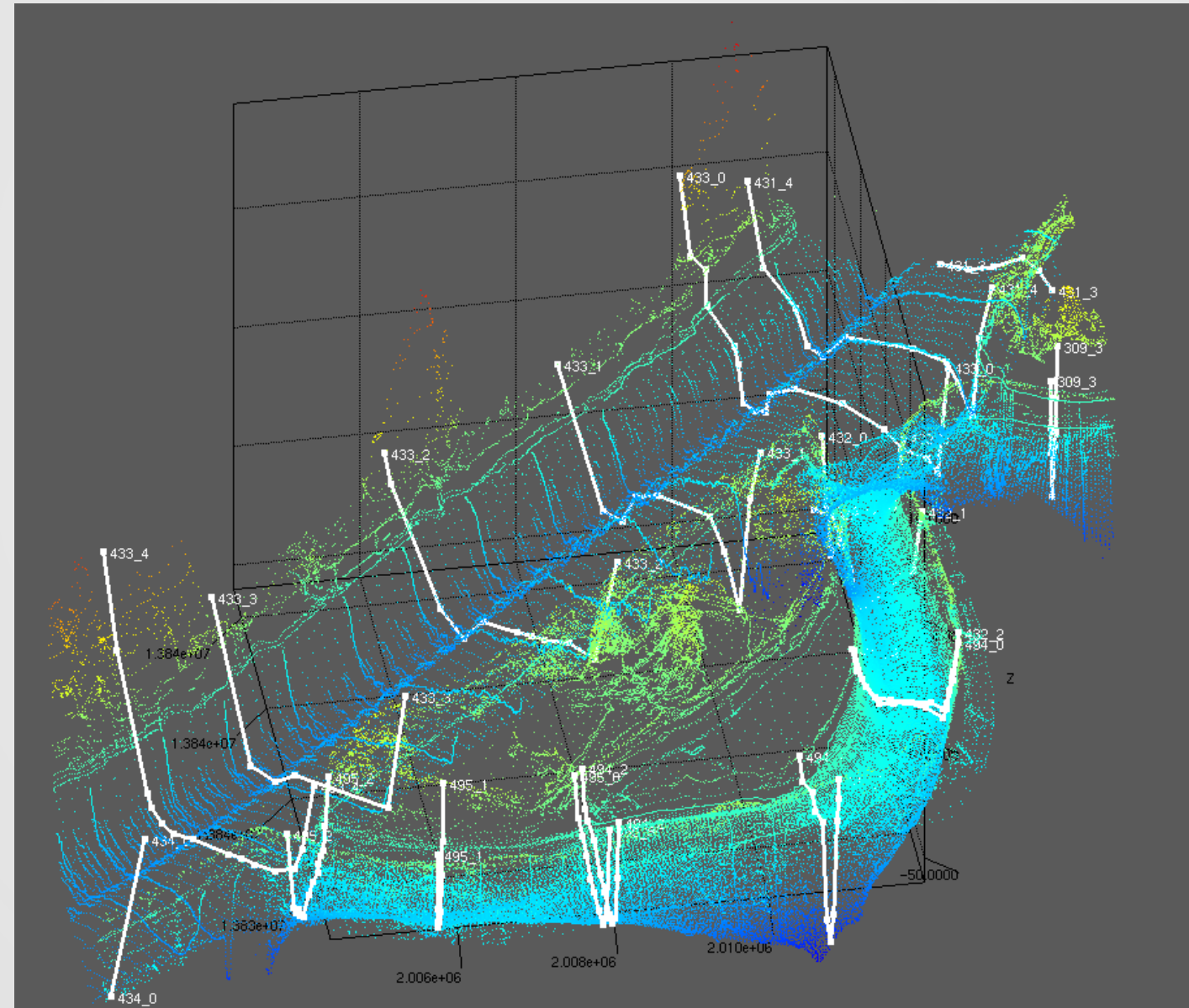


DSM2 CSDP Quick Start: Technical Setup

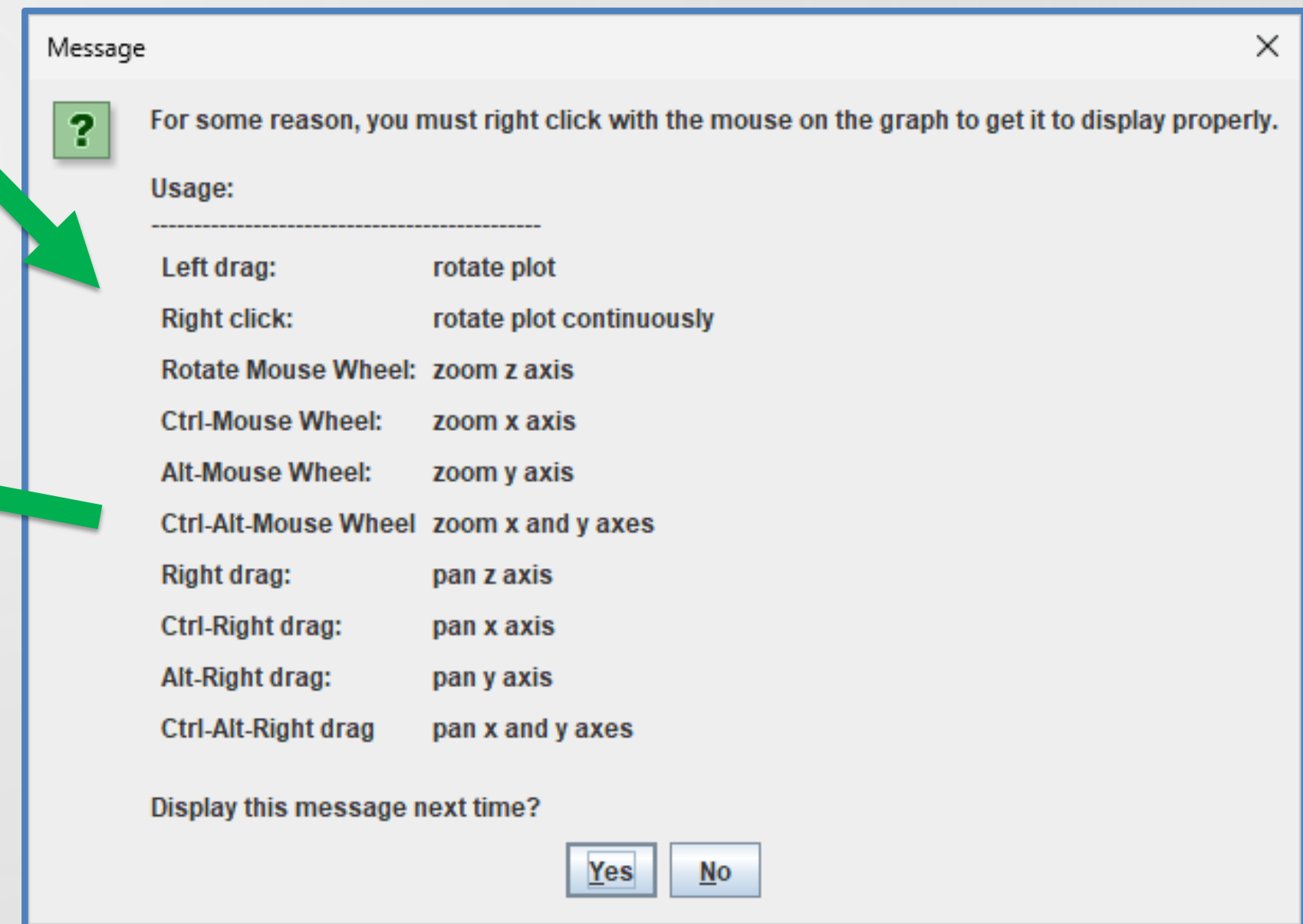
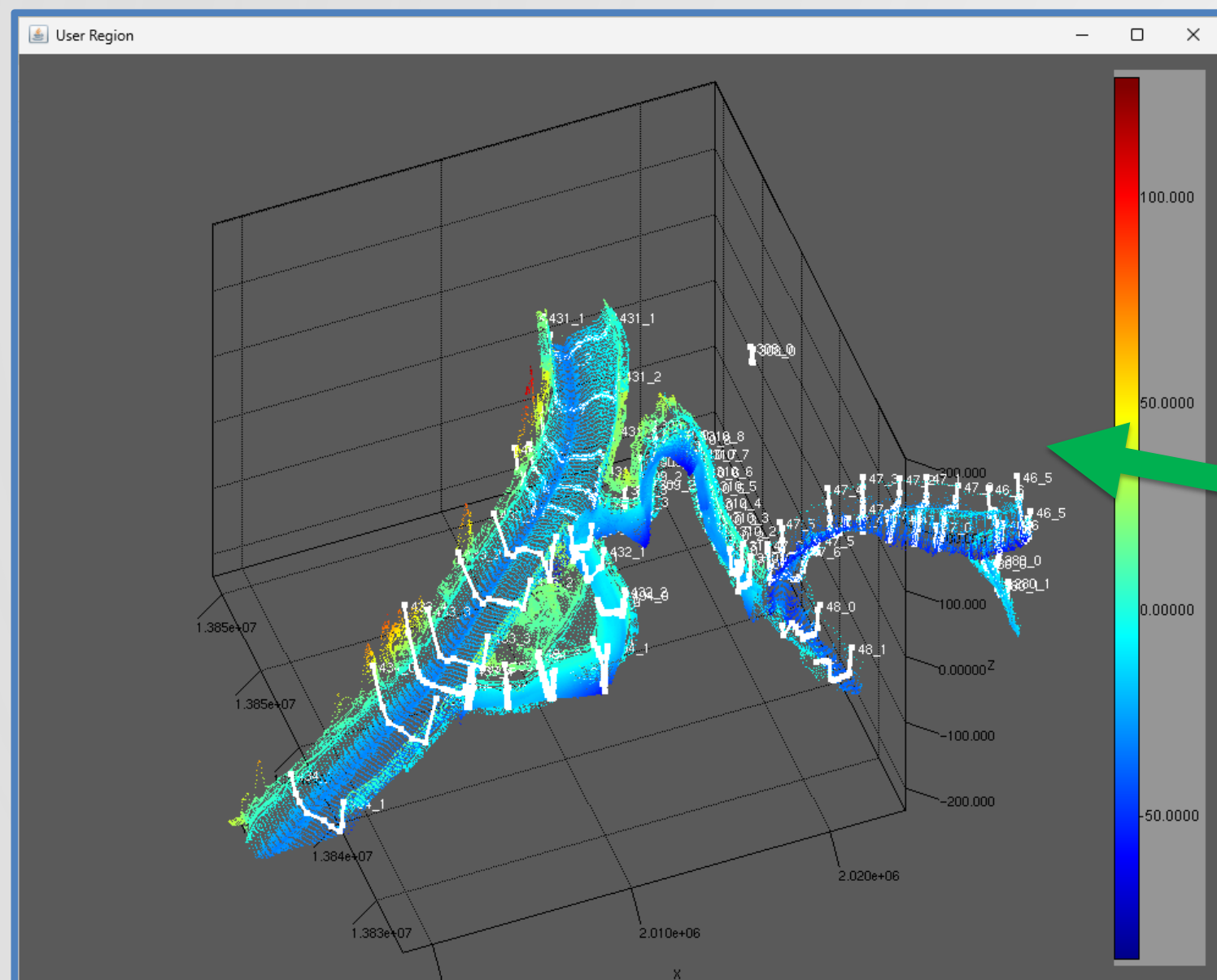
November 19, 2025



Brad Tom, DWR Modeling Support Office


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
 - Text editor, such as Visual Studio Code, Notepad, Notepad++
- 
- Older versions of DSM2 will work

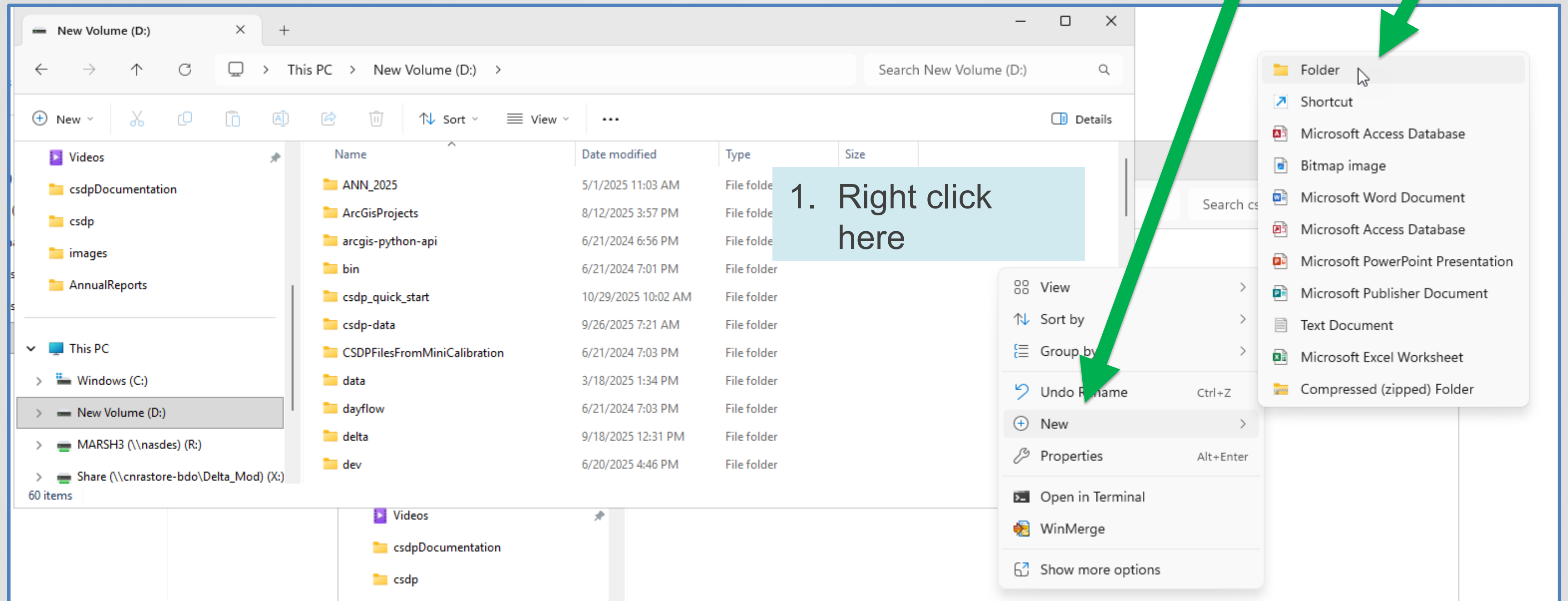
Optional data/software

- 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

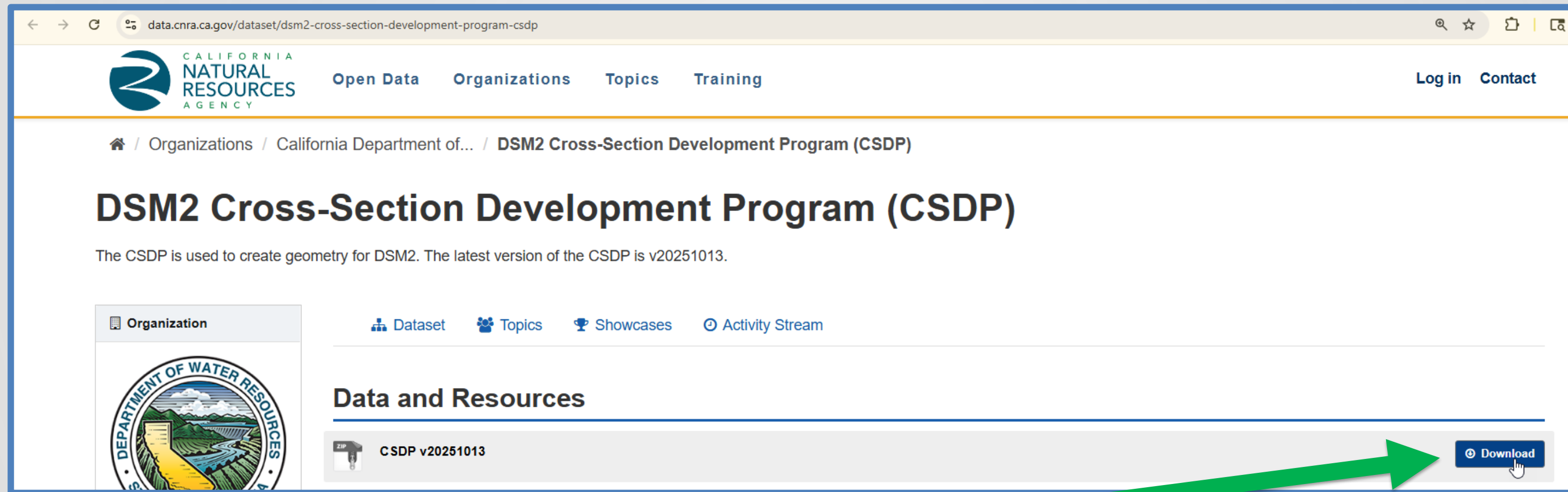
1. In Windows Explorer, create a new folder (right click on window, enter a name)

2. Select New-Folder



Download CSDP

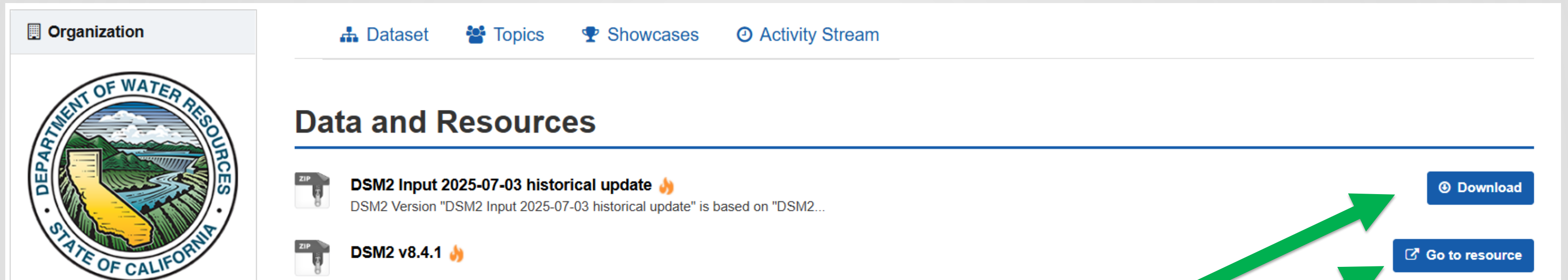
1. Go to: <https://data.cnra.ca.gov/dataset/dsm2-cross-section-development-program-csdp>



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 'Data and Resources' section of a dataset page. On the left is the 'Organization' sidebar with the 'DEPARTMENT OF WATER RESOURCES STATE OF CALIFORNIA' logo. The main content area has a header with navigation links: 'Dataset', 'Topics', 'Showcases', and 'Activity Stream'. Below the header, the title 'Data and Resources' is followed by a list of two datasets. The first dataset is 'DSM2 Input 2025-07-03 historical update' with a fire icon and a description: 'DSM2 Version "DSM2 Input 2025-07-03 historical update" is based on "DSM2...'. The second dataset is 'DSM2 v8.4.1' with a fire icon. To the right of the first dataset is a blue 'Download' button, and to the right of the second dataset is a blue 'Go to resource' button. Two large green arrows point from the bottom left towards these two buttons.

Organization

Dataset Topics Showcases Activity Stream

Data and Resources

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

ZIP **DSM2 v8.4.1** 🔥

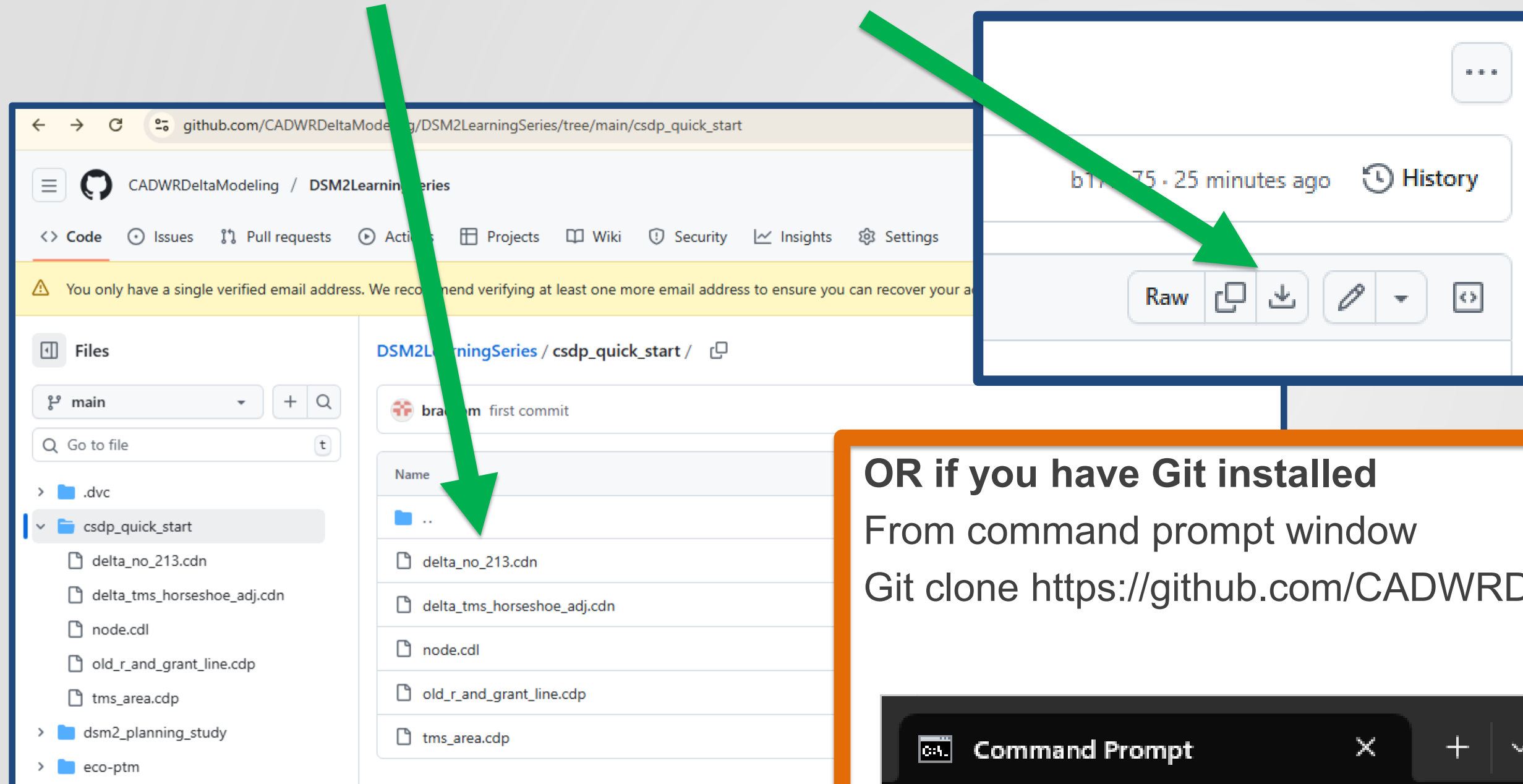
Download

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>

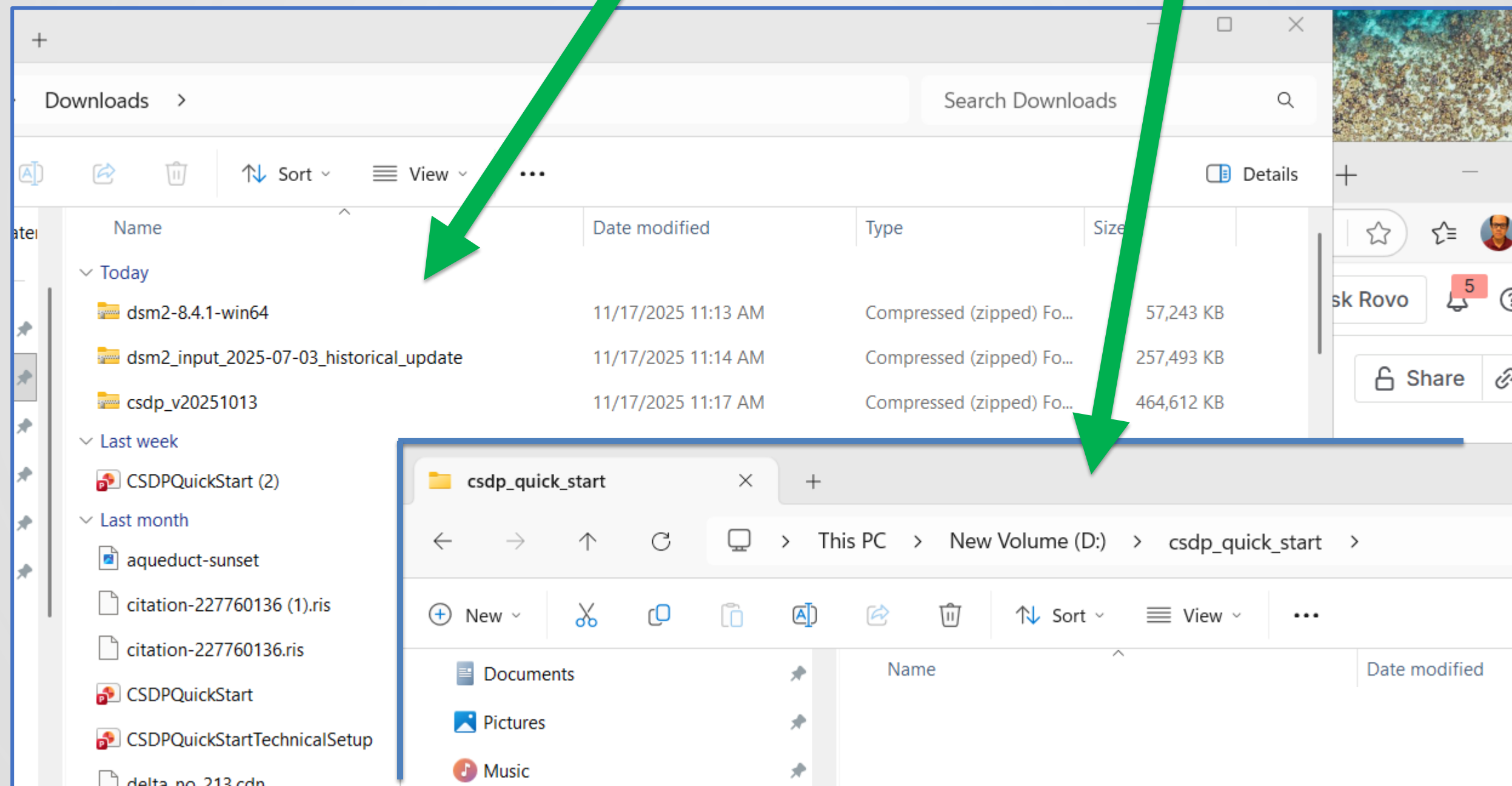
```
Command Prompt
D:\temp>
D:\temp>
D:\temp>git clone https://github.com/CADWRDeltaModeling/DSM2LearningSeries
Cloning into 'DSM2LearningSeries'...
remote: Enumerating objects: 52781, done
```


Unzip files – open windows explorers

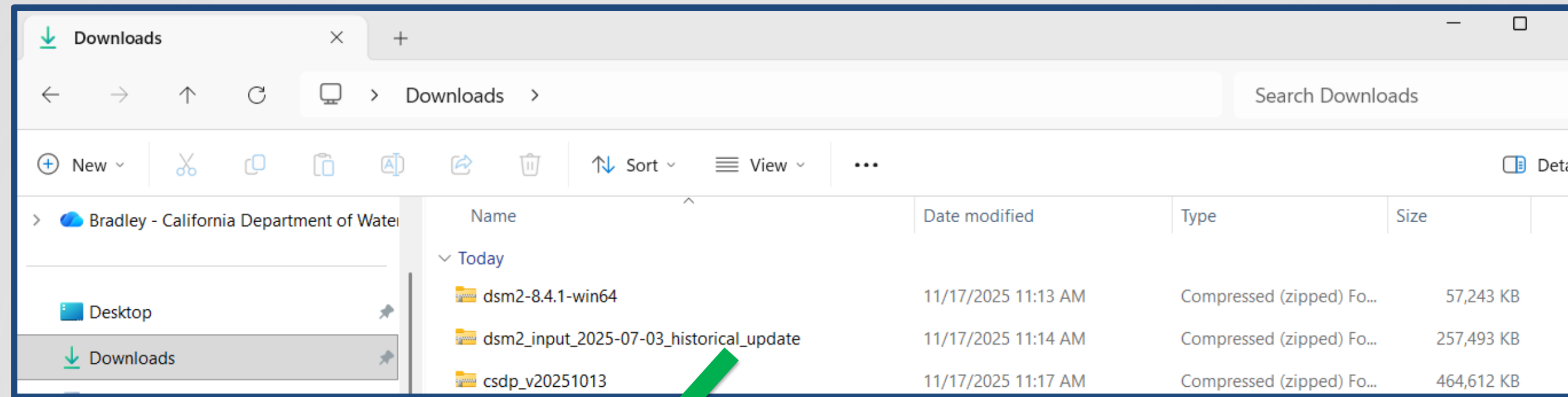
1. Open two Windows Explorers

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

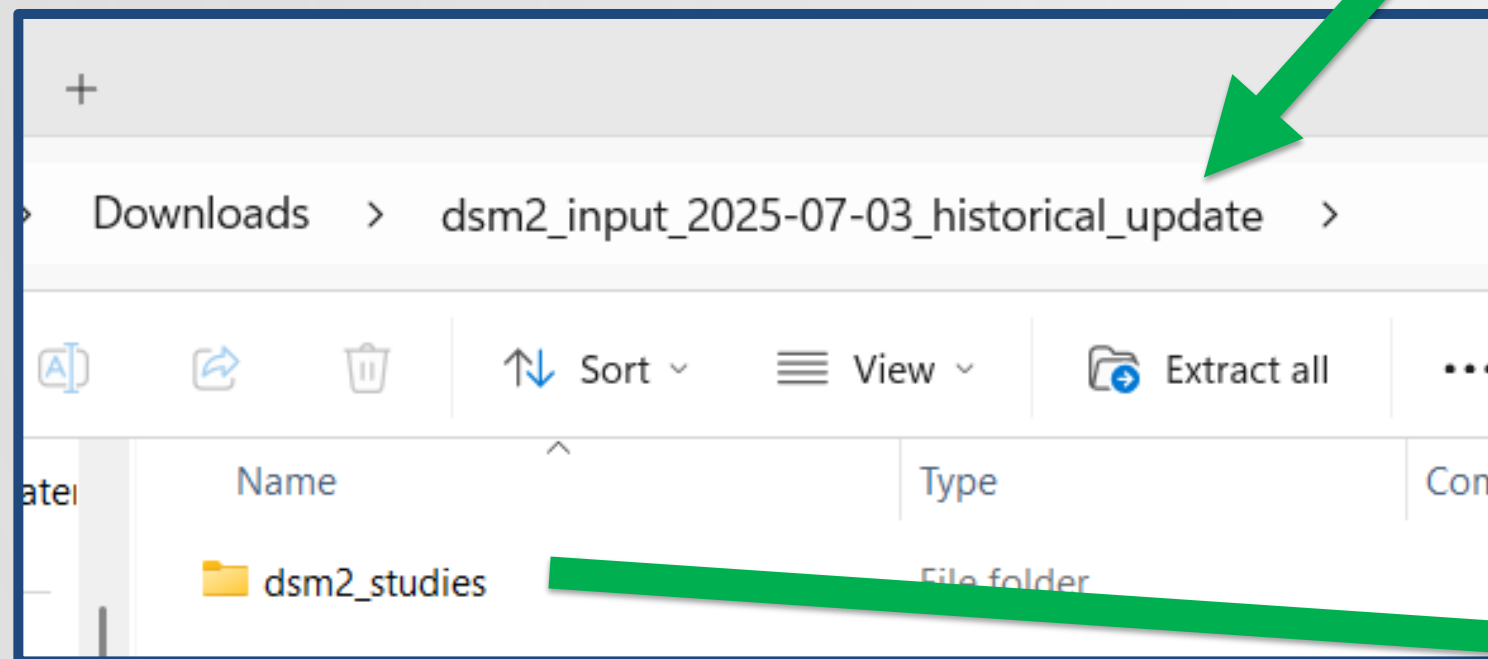
2. In the second, navigate your new folder



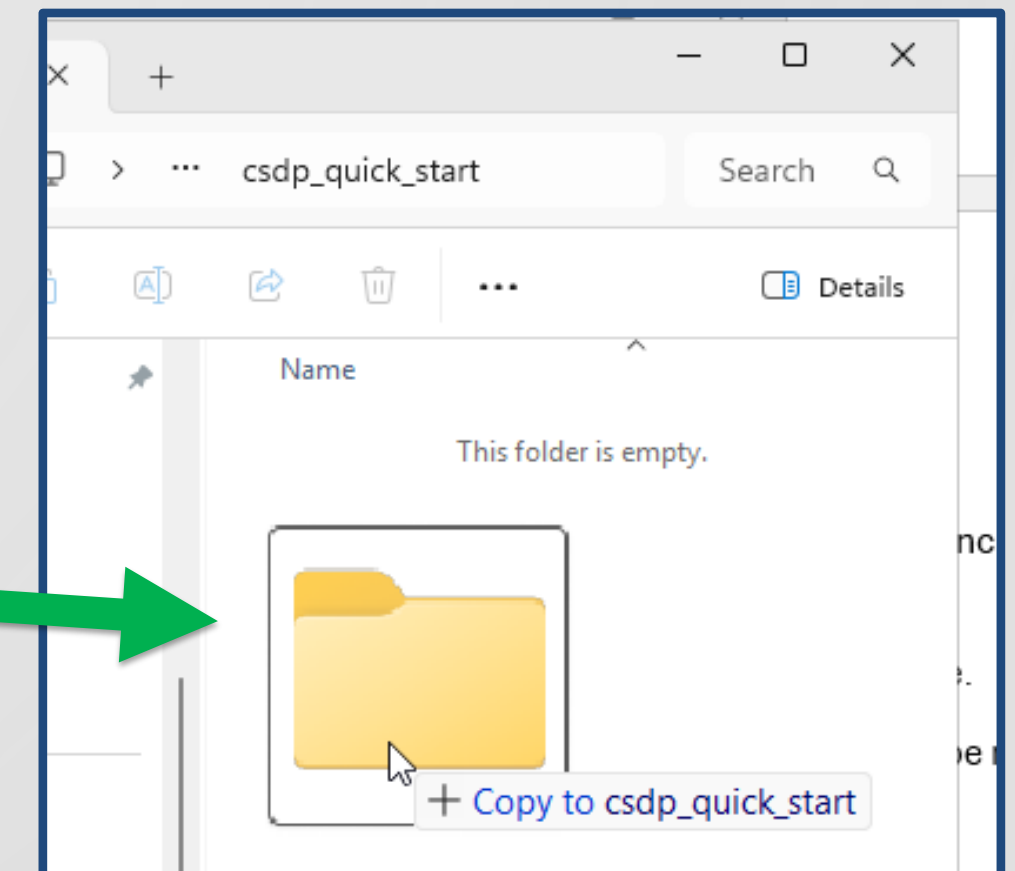
Unzip files



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

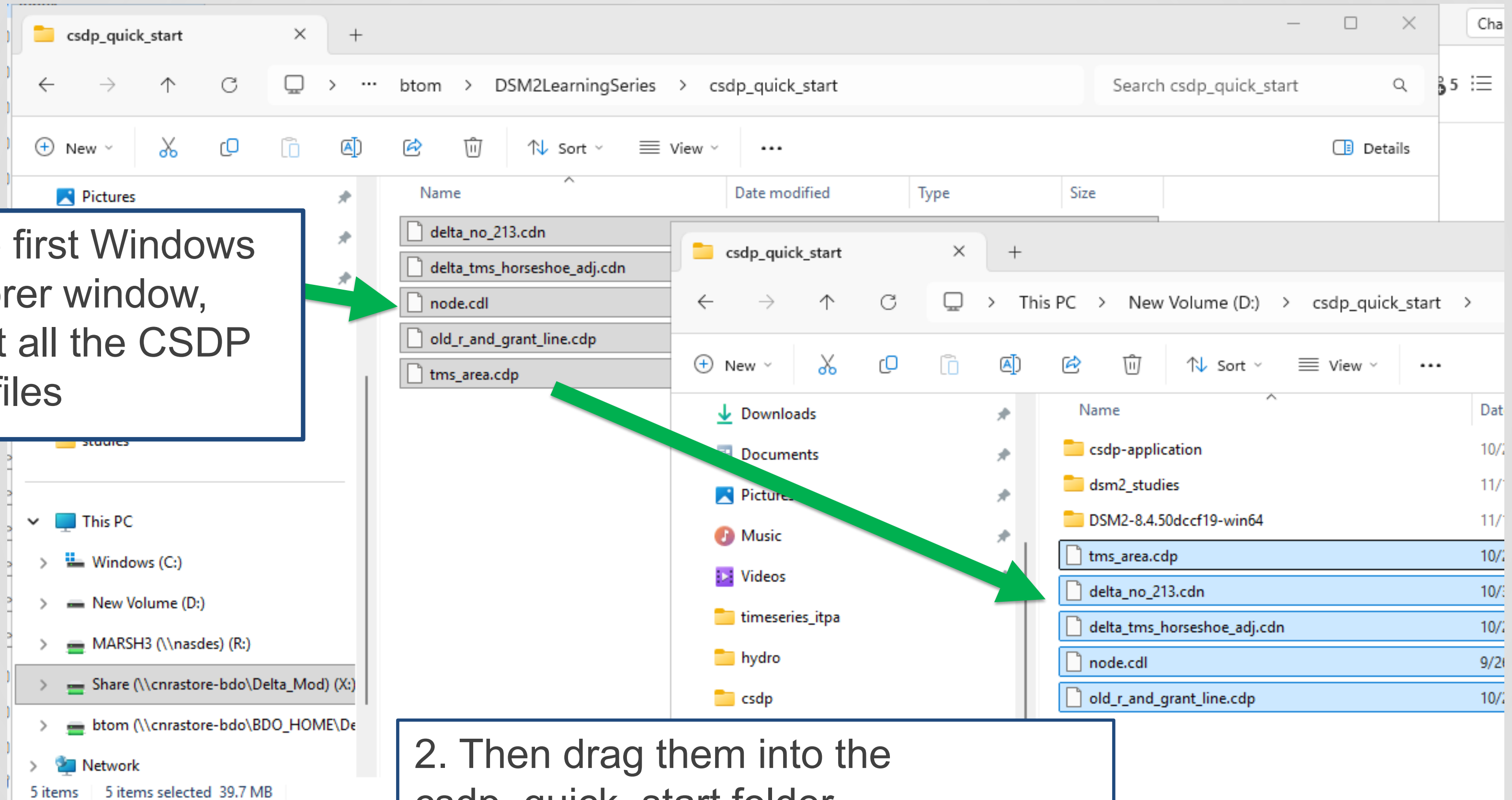


2. Then drag the contents into the second Windows Explorer window



Move CSDP data files into new folder

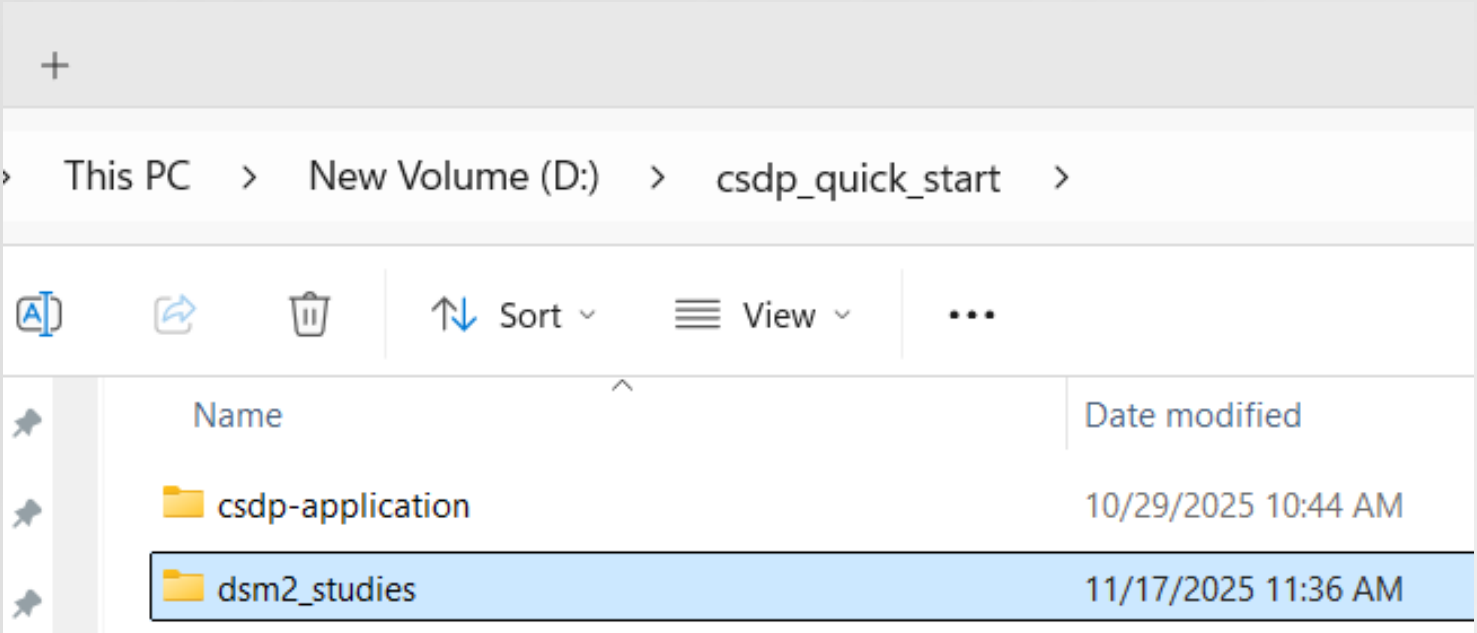
1. In the first Windows Explorer window, select all the CSDP data files



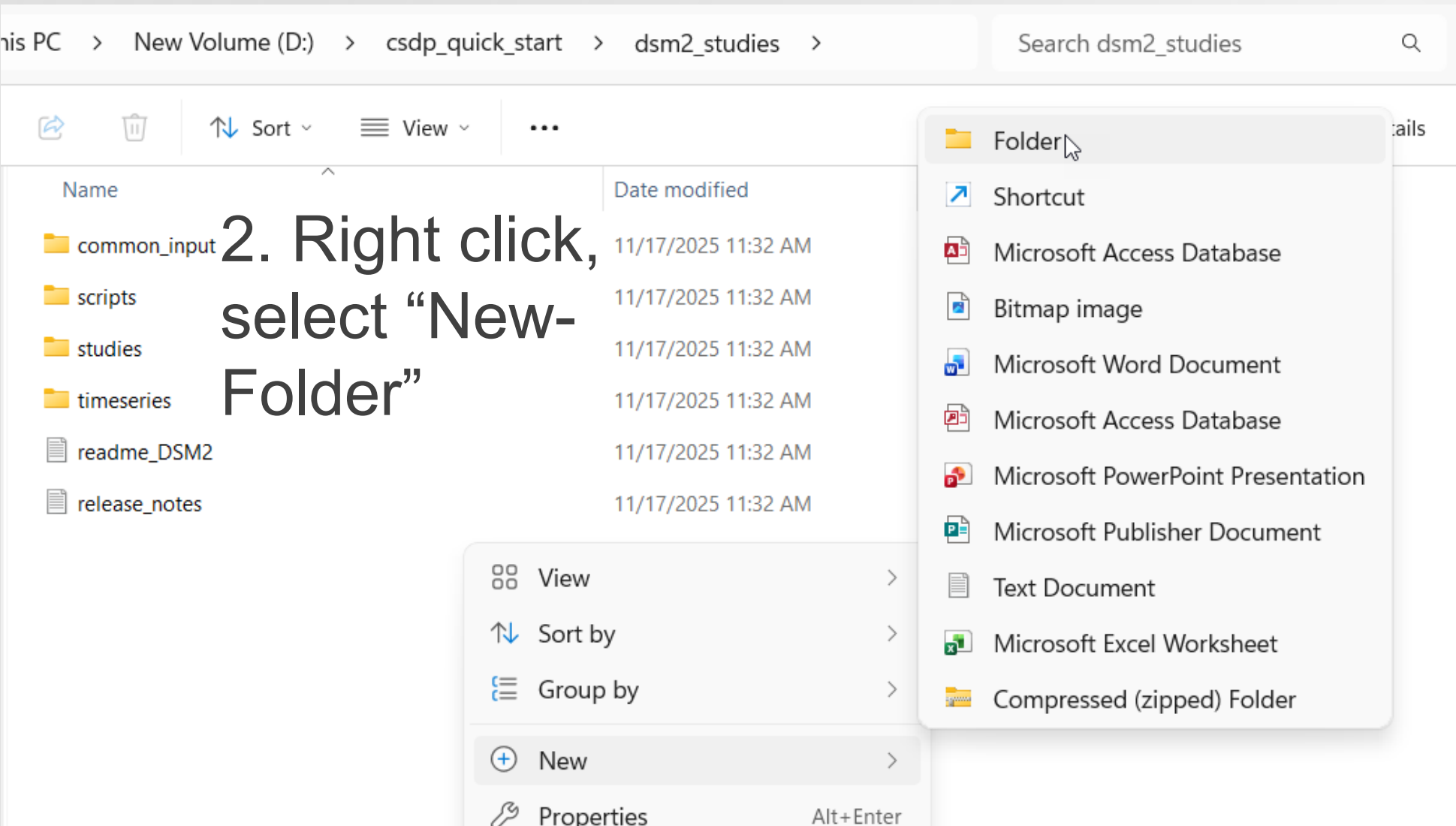
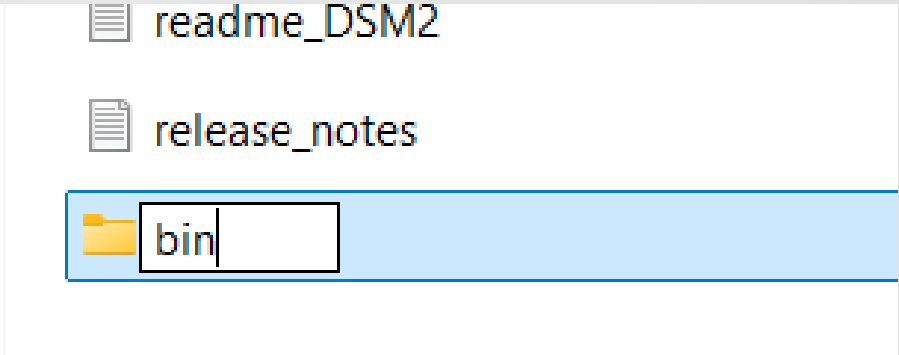
2. Then drag them into the csdp_quick_start folder

Set up DSM2 folder

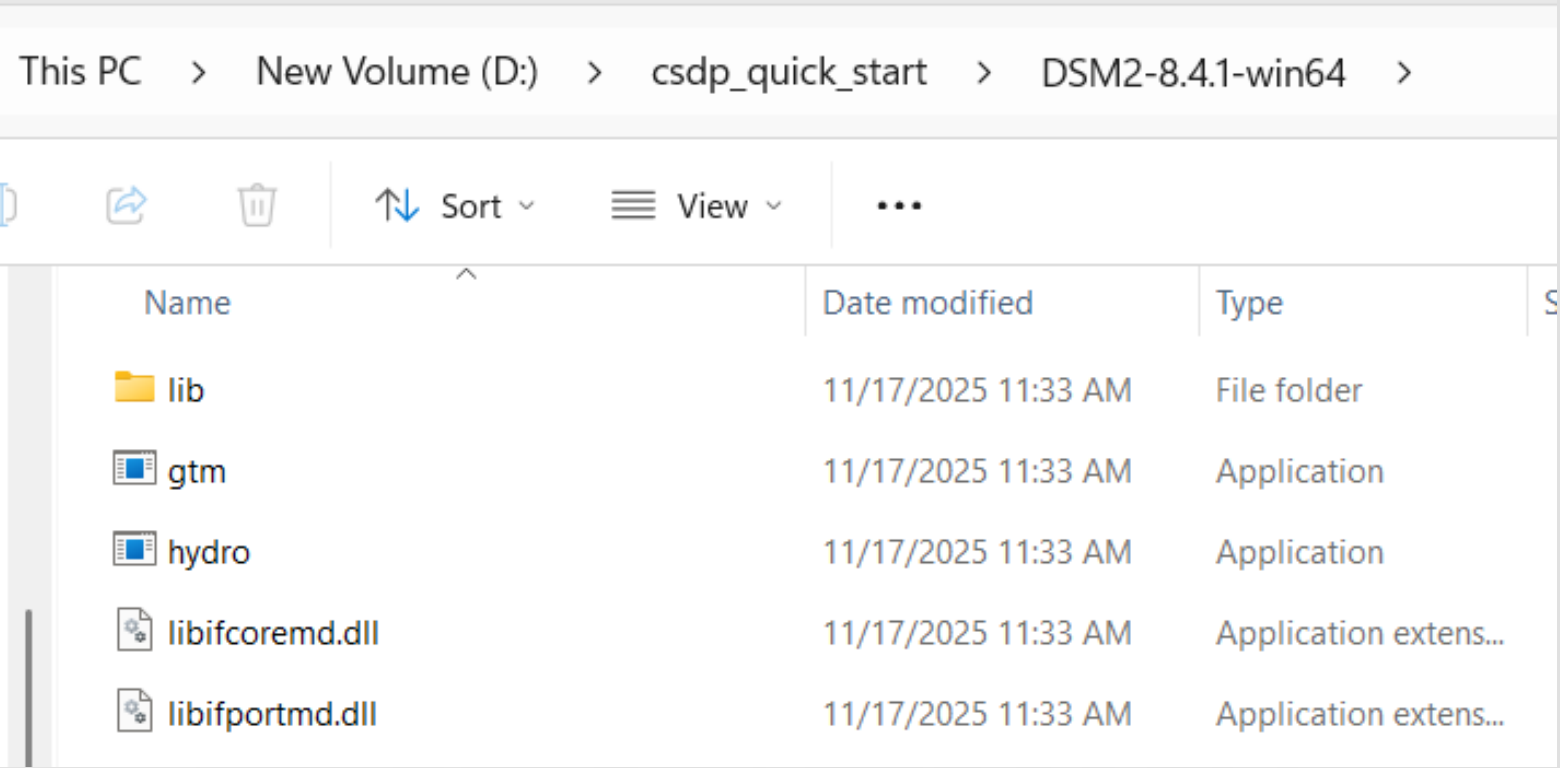
1. Double click on the **dsm2_studies** folder



3. Name the folder “bin”

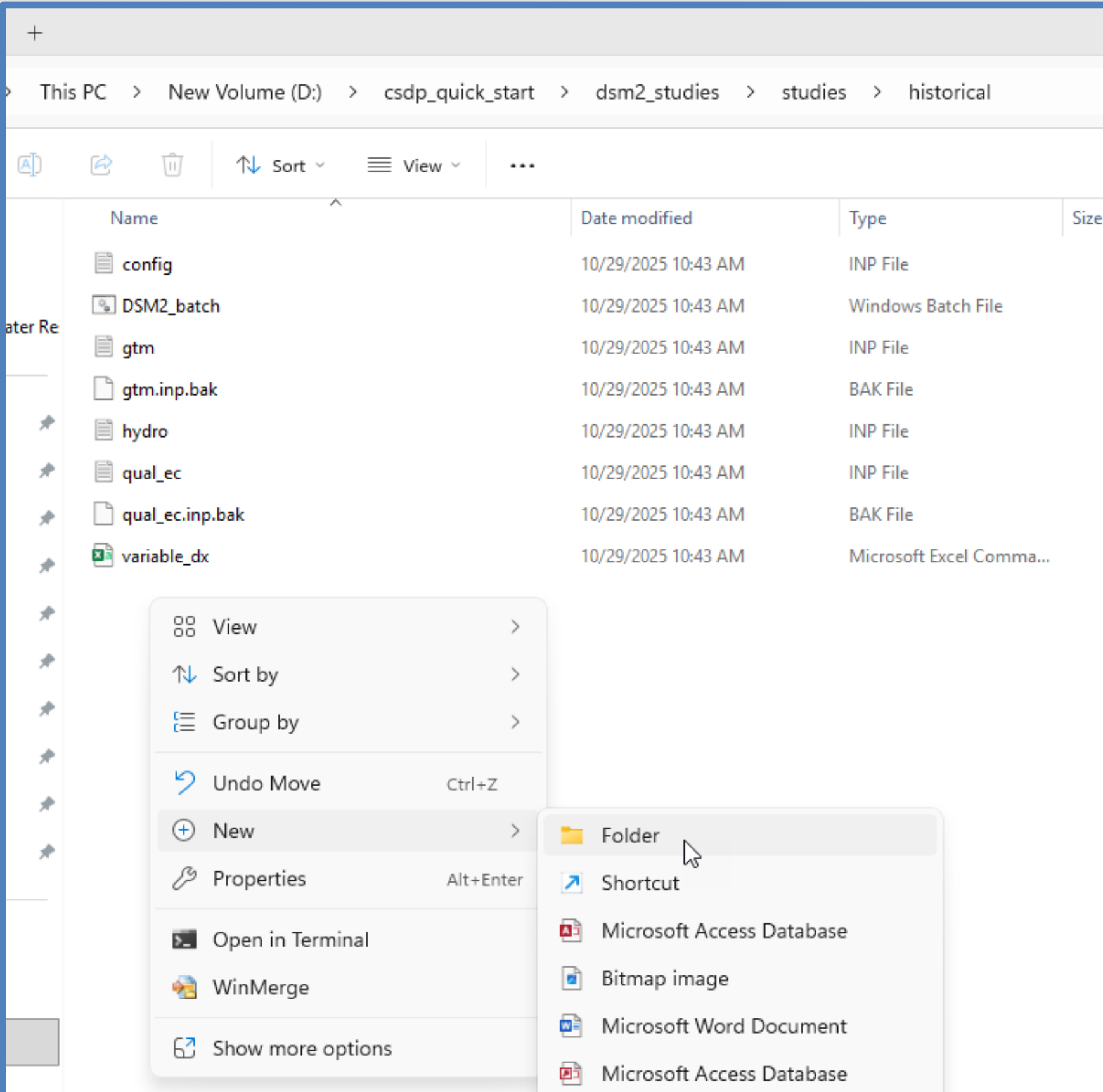


4. Copy the contents of DSM2-8.4.1-win64 into the bin folder

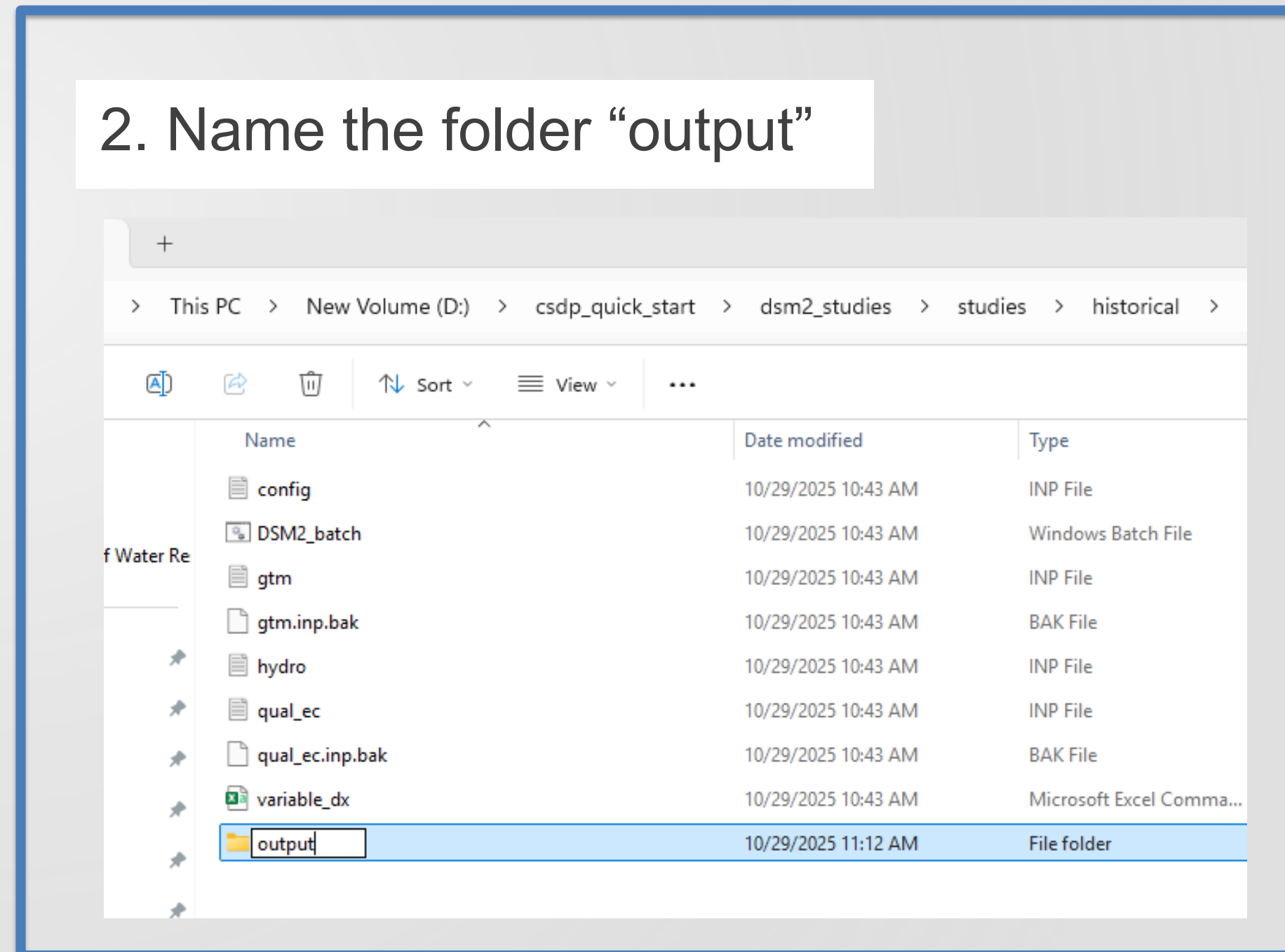


Set up DSM2 historical study folder

1. Navigate to dsm2_studies\studies\historical folder



2. Name the folder "output"



Verify that DSM2 runs

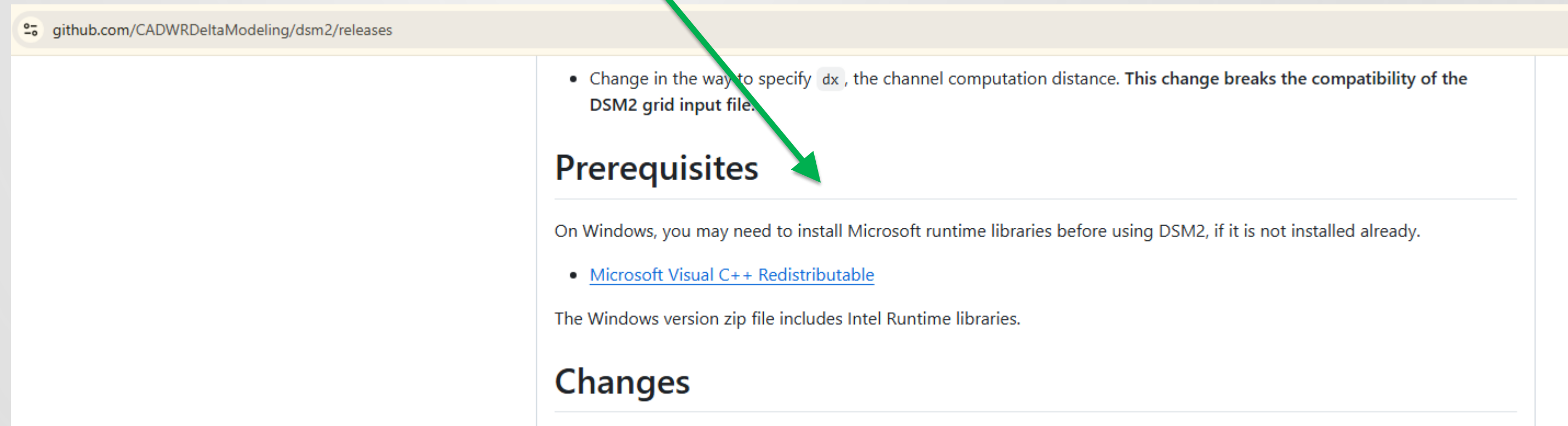
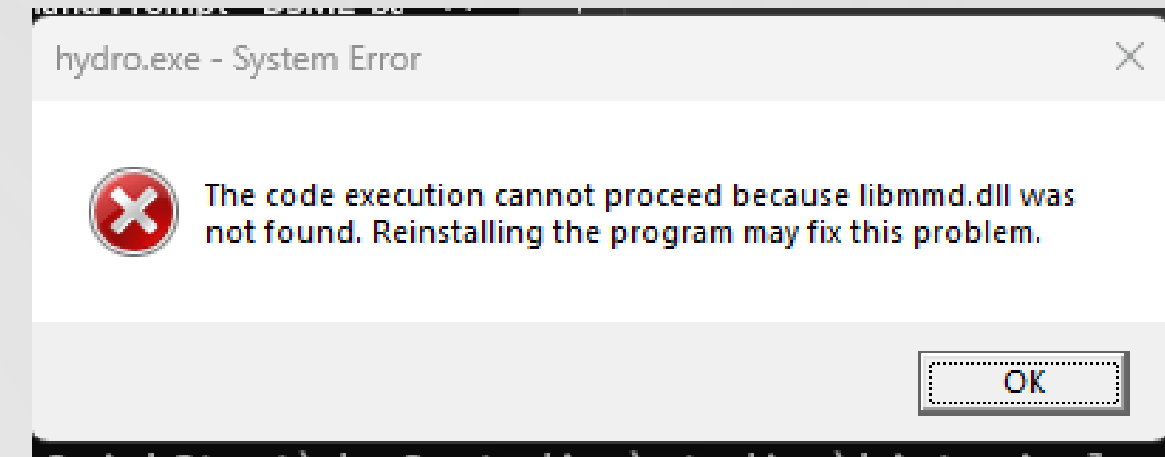
1. Open a command prompt window
2. cd to your dsm2_studies\studies\historical\ folder
3. Execute **DSM2_batch.bat**
4. Ctrl-C ctrl-c if you want to stop the run

```
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> |
```

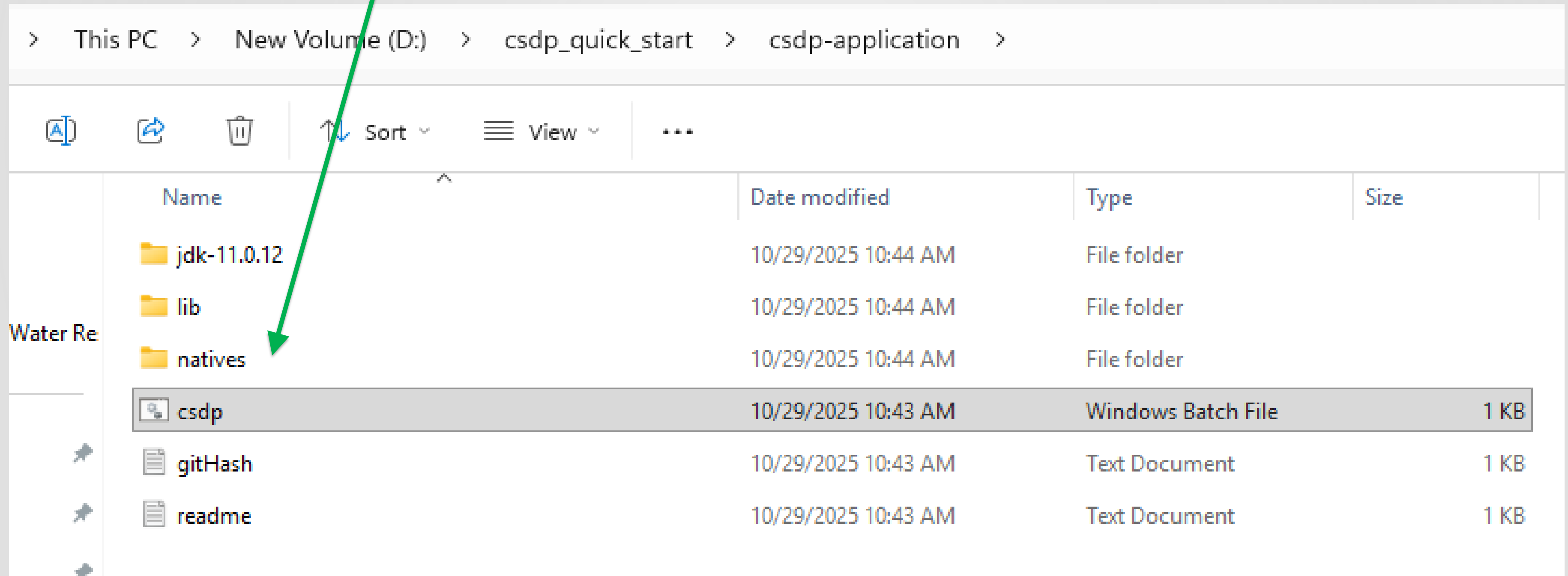
Verify that DSM2 runs

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**.






Start CSDP

Double click on “**csdp**” file

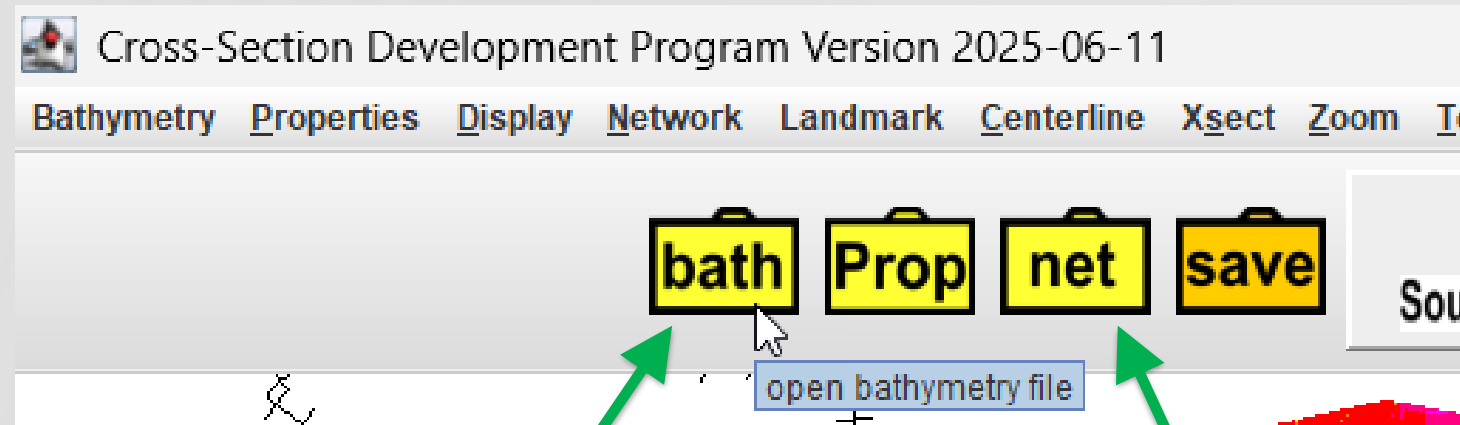


The screenshot shows a Windows File Explorer window with the address bar path: > This PC > New Volume (D:) > csdp_quick_start > csdp-application >. The left sidebar shows a tree view with 'Water Re' visible. The main pane displays a table of files and folders.

Name	Date modified	Type	Size
jdk-11.0.12	10/29/2025 10:44 AM	File folder	
lib	10/29/2025 10:44 AM	File folder	
natives	10/29/2025 10:44 AM	File folder	
 csdp	10/29/2025 10:43 AM	Windows Batch File	1 KB
 gitHash	10/29/2025 10:43 AM	Text Document	1 KB
 readme	10/29/2025 10:43 AM	Text Document	1 KB

A green arrow points from the text 'Double click on “csdp” file’ to the 'csdp' file in the table.

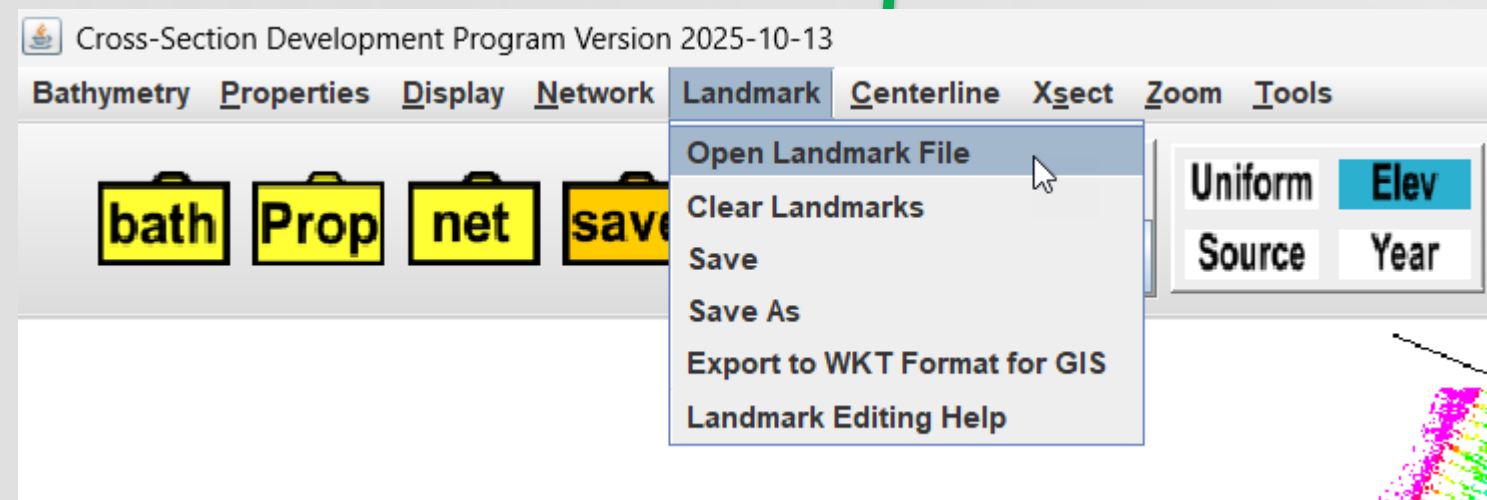
Test CSDP loading data files



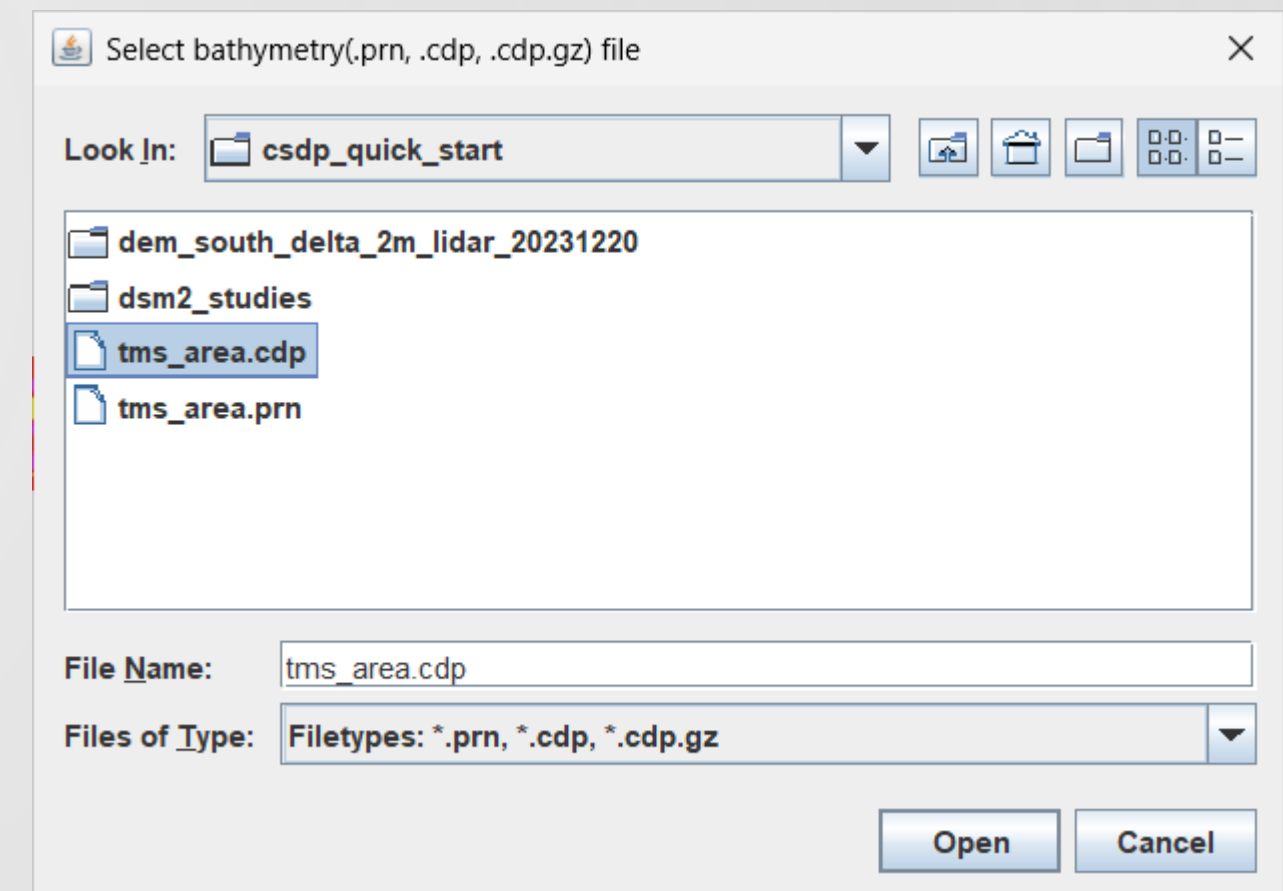
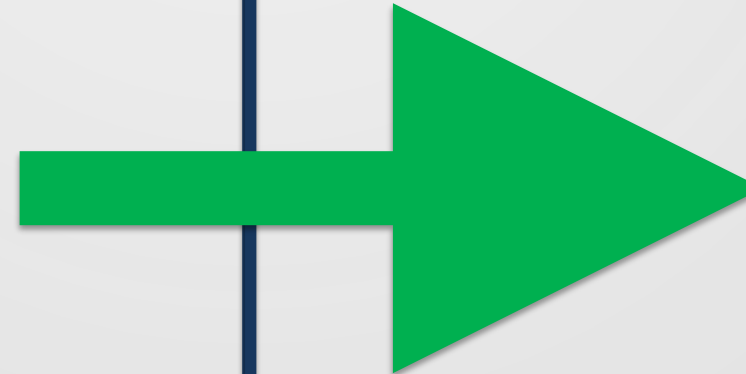
1. Load bathymetry file
tms_area.cdp

3. Load network file
delta_tms_horseshoe_adj.cdn

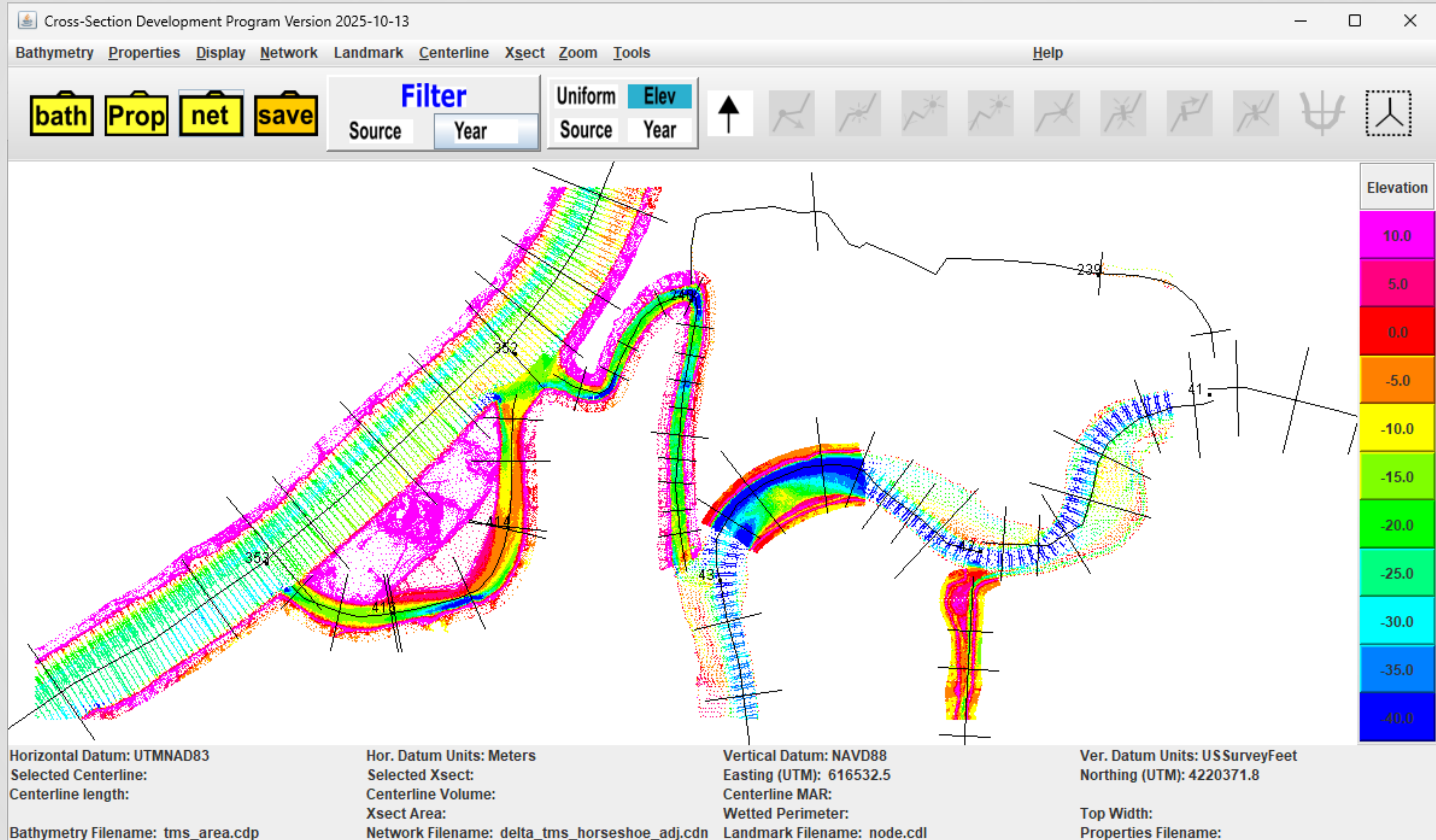
2. Load landmark file
node.cdl



Choose each file using
the file selector dialog



Test CSDP loading data files



Questions?



Bradley.Tom@water.ca.gov