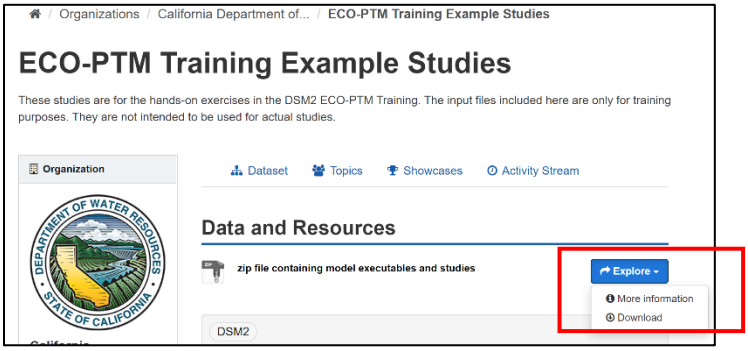
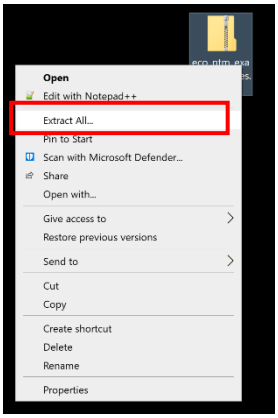
ECO-PTM Quick Start Guide

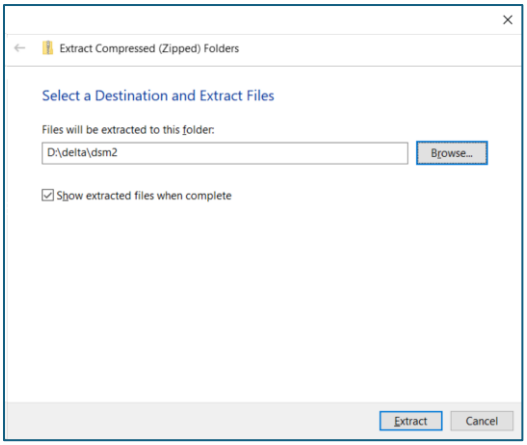
1. Download ECO-PTM package from California Natural Resource Agency website: https://data.cnra.ca.gov/dataset/eco-ptm-training-example-studies



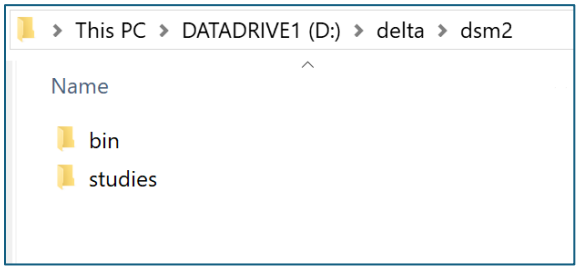
2. Extract the zip file into a destination of your choice. You must extract all (Not doing so will cause issues in later steps!).



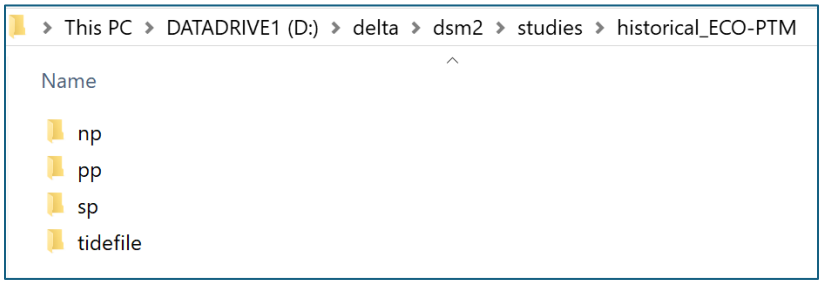
We will extract the files to '**D:\delta\dsm2**' directory.



3. Navigate to the directory containing the extracted files (in our case, '**D:\delta\dsm2**'). You should see subdirectories '**bin**' and '**studies**'.

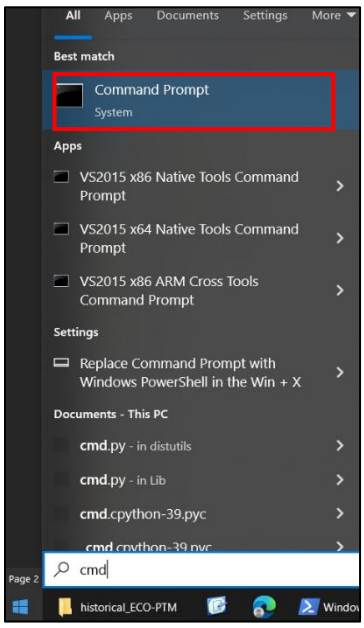


4. Navigate into '**studies'**, then '**historical_ECO-PTM**'.



The subdirectories '**np**', '**pp**', and '**sp**' respectively contain input files for neutrally-buoyant particle studies, position-oriented particle studies, and salmon particle studies. The subdirectory '**tidefile**' contains the hydrodynamics model output, which is required to run ECO-PTM.

5. ECO-PTM must be run on a Command Prompt window. Open Windows Command Prompt (Go to Windows start menu, then type "**cmd**" to locate Command Prompt).



Inside Command Prompt window, navigate to the directory containing '**np**', '**pp**', and '**sp**'. In our case, simply enter in the following command:

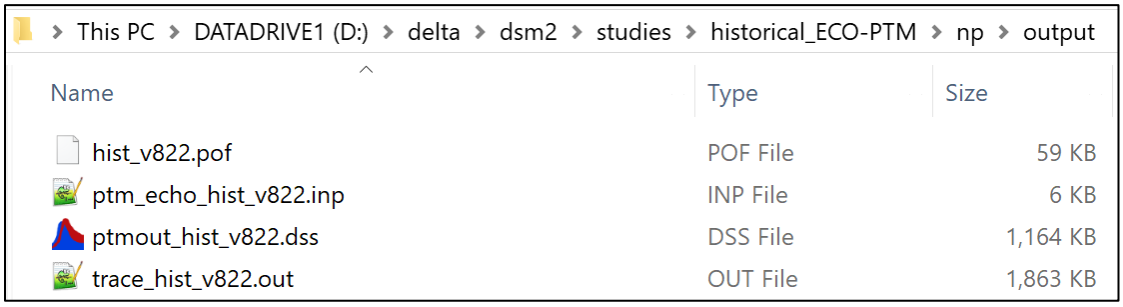
```
cd D:\delta\dsm2\studies\historical_ECO-PTM
```

```
D:\>cd D:\delta\dsm2\studies\historical_ECO-PTM

D:\delta\dsm2\studies\historical_ECO-PTM>
```

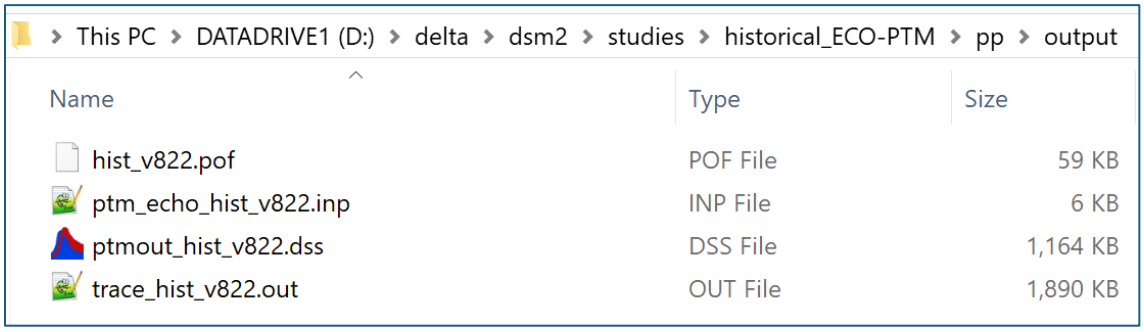
6. User needs to specify correct input file (text file with '**.inp**' extension) for ECO-PTM, as described below. The instruction assumes that the *commands are entered into Command Prompt inside '**historical_ECO-PTM**' directory*.
    a. To run a simulation with neutrally buoyant particles:
    ```
    cd np
    ..\..\..\bin\ptm.bat ptm.inp
    ```
    b. To run a simulation with position oriented particles:
    ```
    cd pp
    ..\..\..\bin\ptm.bat ptm.inp
    ```
    c. To run a simulation with salmon particles:
    ```
    cd sp
    ..\..\..\bin\ptm.bat ptm.inp
    ```

```
D:\delta\dsm2\studies\historical_ECO-PTM>cd np

D:\delta\dsm2\studies\historical_ECO-PTM\np>..\..\..\bin\ptm.bat ptm.inp
```

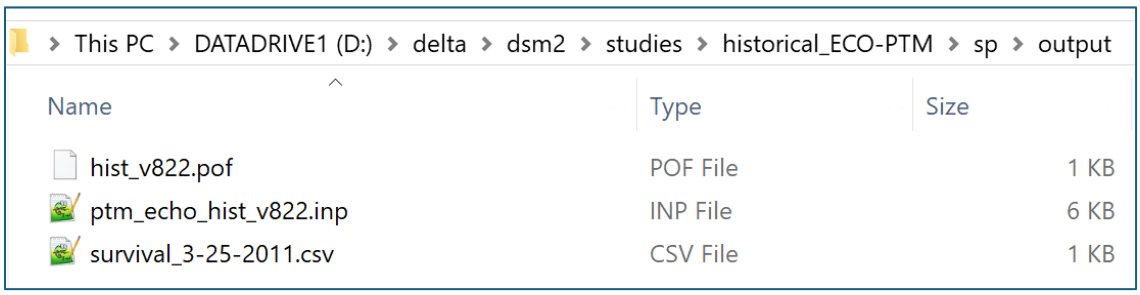
7. The simulation output is saved into the respective '**output**' directory.
    a. np:



b. pp:


This PC › DATADRIVE1 (D:) › delta › dsm2 › studies › historical_ECO-PTM › pp › output
Name
Type
Size
hist_v822.pof
POF File
59 KB
ptm_echo_hist_v822.inp
INP File
6 KB
ptmout_hist_v822.dss
DSS File
1,164 KB
trace_hist_v822.out
OUT File
1,890 KB

c. sp:


This PC › DATADRIVE1 (D:) › delta › dsm2 › studies › historical_ECO-PTM › sp › output
Name
Type
Size
hist_v822.pof
POF File
1 KB
ptm_echo_hist_v822.inp
INP File
6 KB
survival_3-25-2011.csv
CSV File
1 KB