# DSM2 Learning Series: DSM2 Planning Studies

## Session 2: Output Post-processing

The goals for this session include

1. Post-processing DSM2 results, creating new DSS files used for plotting
2. Using Jupyter notebooks to plots results of studies
3. Learning to work with Jupyter notebook plots

Run the post-processor for the baseline and alternative studies.

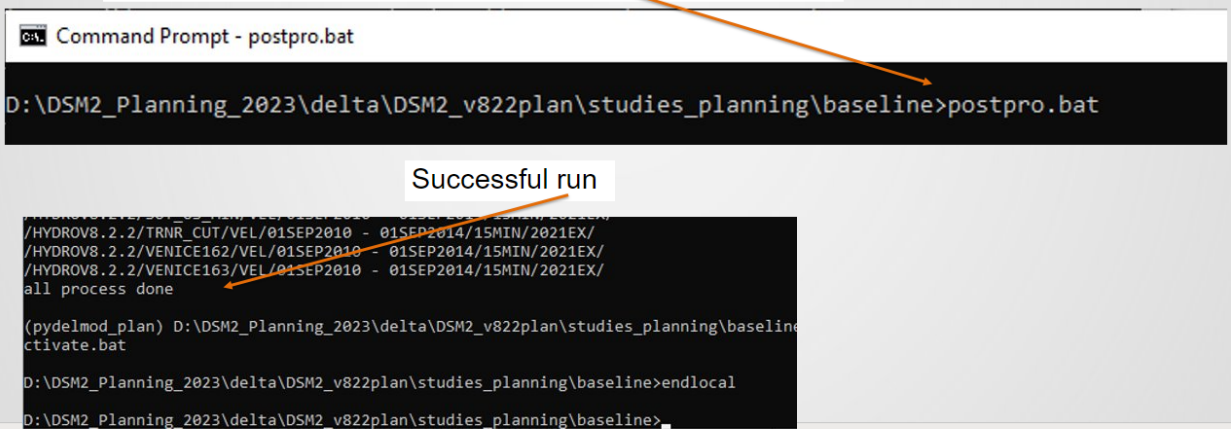
# Post-processing model output

## baseline study: running the post-processor

Run post-processor

Creates new flow, stage, and velocity DSS files, containing

- daily max & min
- daily & monthly mean



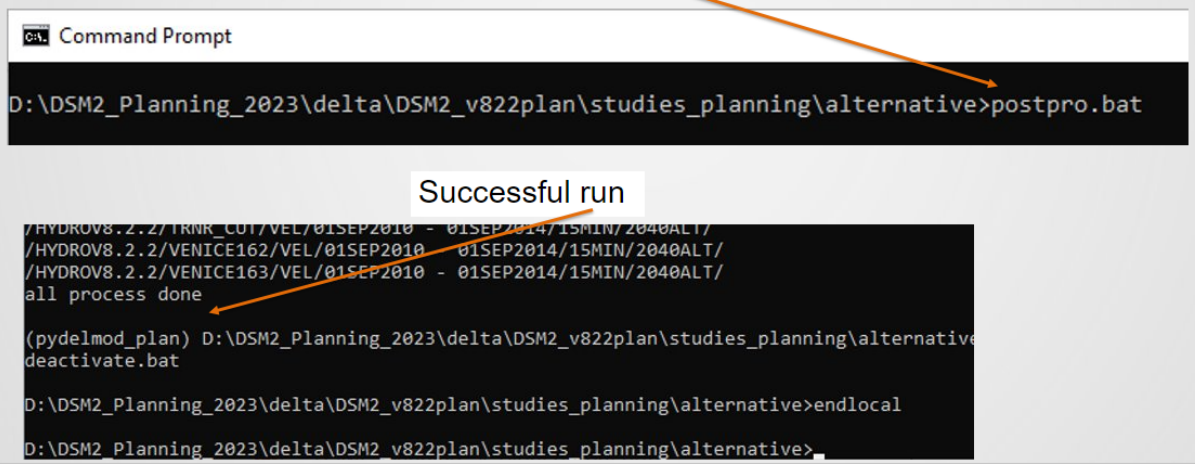

# Post-processing model output

## alternative study: running the post-processor

Run post-processor

Creates new flow, stage, and velocity DSS files, containing

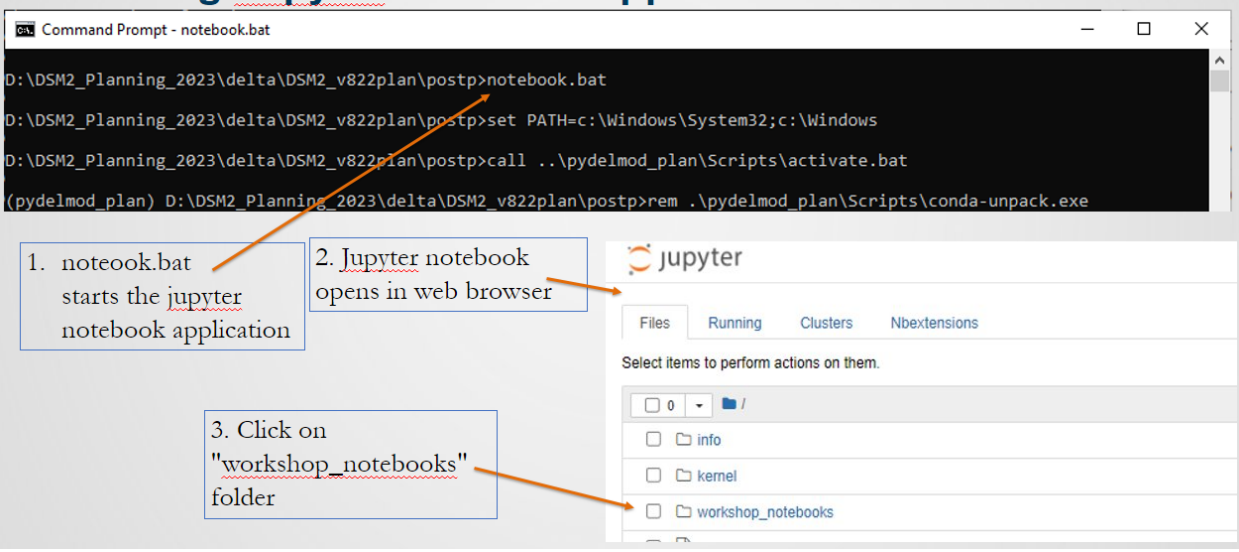
- daily max & min
- daily & monthly mean



Plot model output with Jupyter notebooks

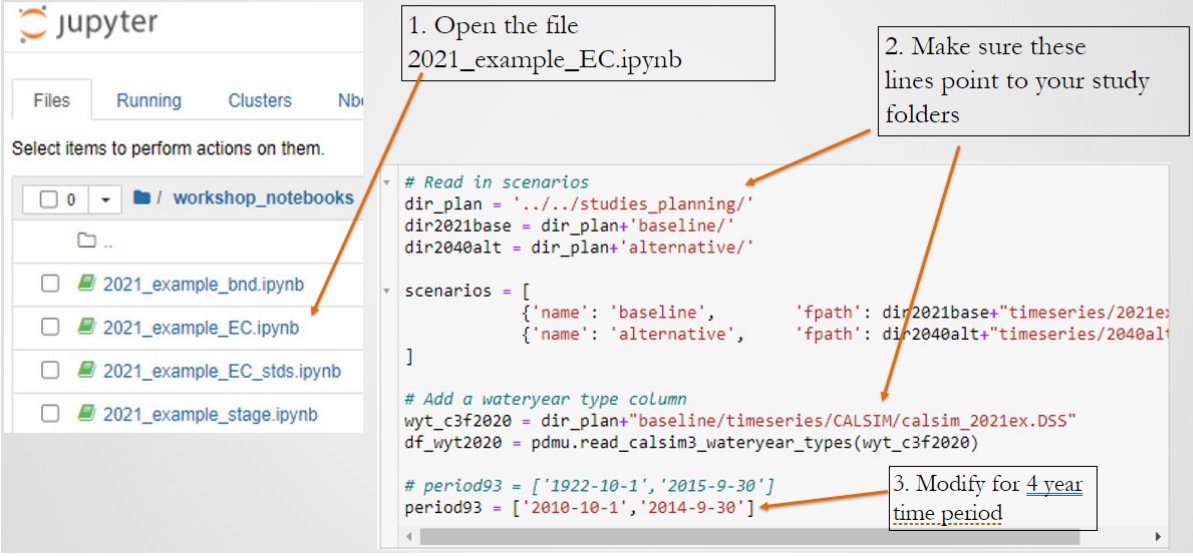
# Post-processing model output

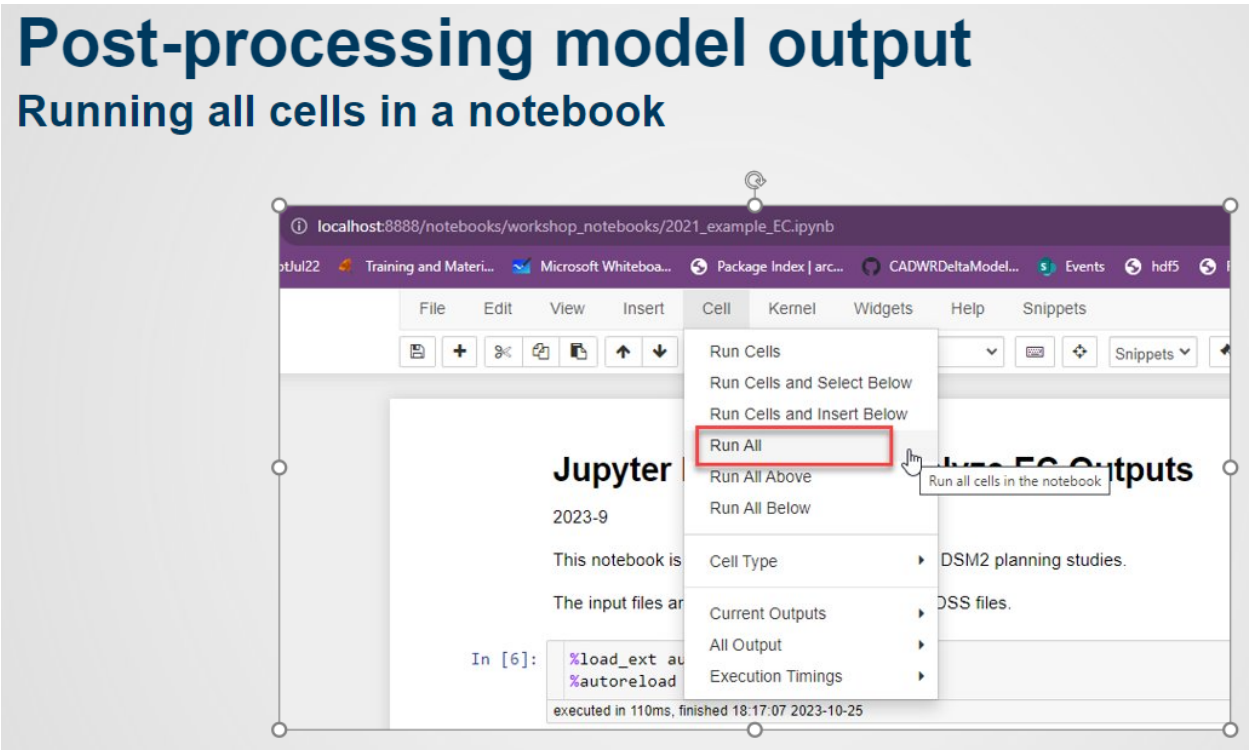
## starting Jupyter notebook application




# Post-processing model output

## Opening and configuring a notebook






Jupyter notebooks for plotting model output

| Notebook filename | Purpose |
|---|---|
| 2021_example_EC.ipynb | Compare EC outputs from multiple scenarios, many stations throughout the system<br>• Bar charts aggregated by month<br>• Exceedance probability<br>• Box & Whisker |
| 2021_example_EC_stds.ipynb | Compare EC outputs from multiple scenarios to D1641 stds<br>• Time series<br>• Exceedance probability |
| 2021_example_stage.ipynb | Compare Stage outputs from multiple scenarios<br>• All four plot types |

Try the various plot features shown in the figure below.