

DSM2 Learning Series: Planning Studies

Session 1: DSM2 Input

October 27, 2023



DISCLAIMER

All DSM2 and CalSim simulations
in this training are

**EXAMPLES AND SHOULD ONLY BE
USED FOR TRAINING**

DSM2 Learning Series: **Planning**

Skills Learned

- **Session 1: DSM2 Planning study setup**
- Session 1 Hands-On Exercises:
 - Plotting DSM2 input with Jupyter notebooks
 - Running DSM2 planning studies
- Session 2: Plotting DSM2 output with Jupyter notebooks

Topics Not Covered

How to

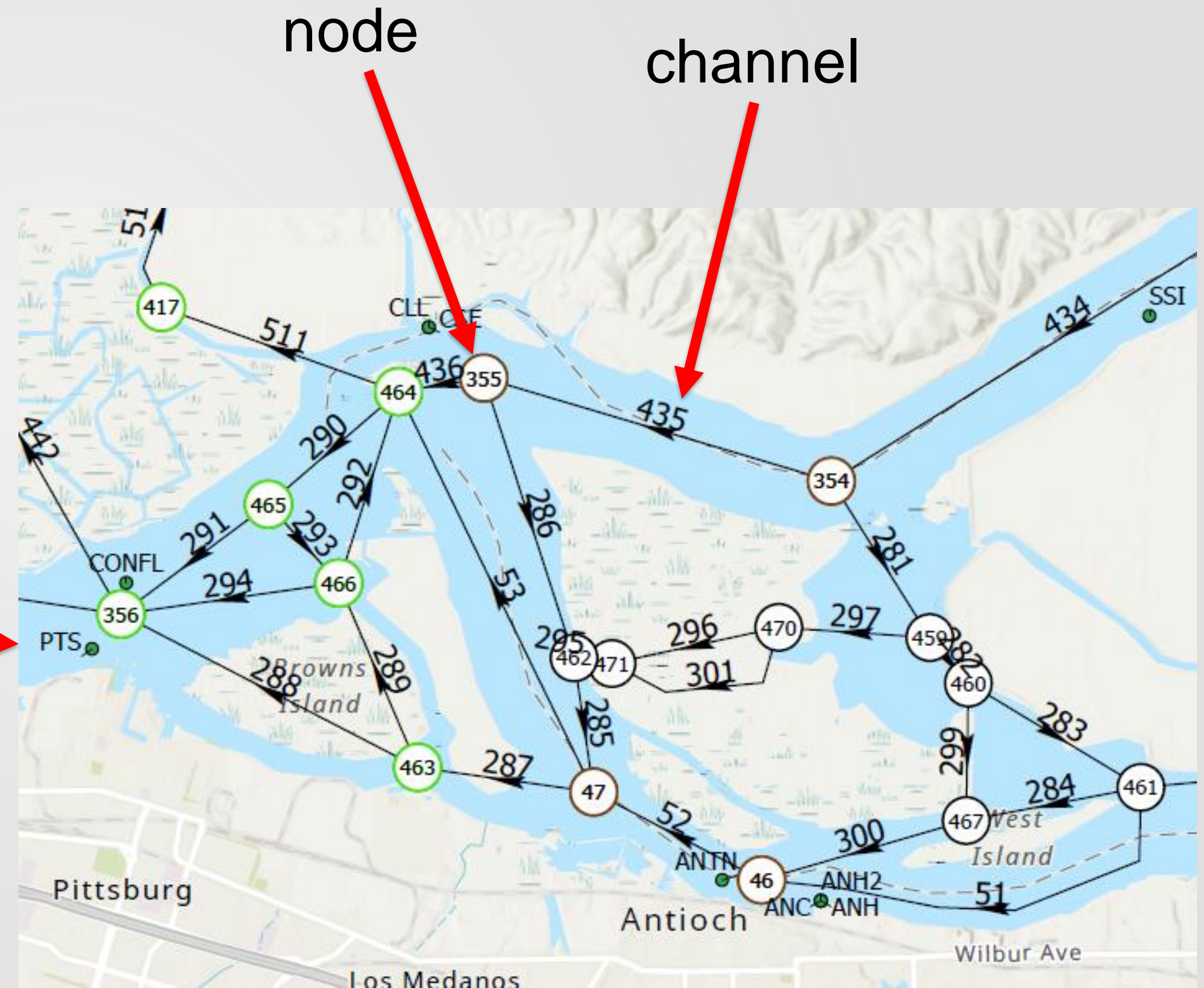
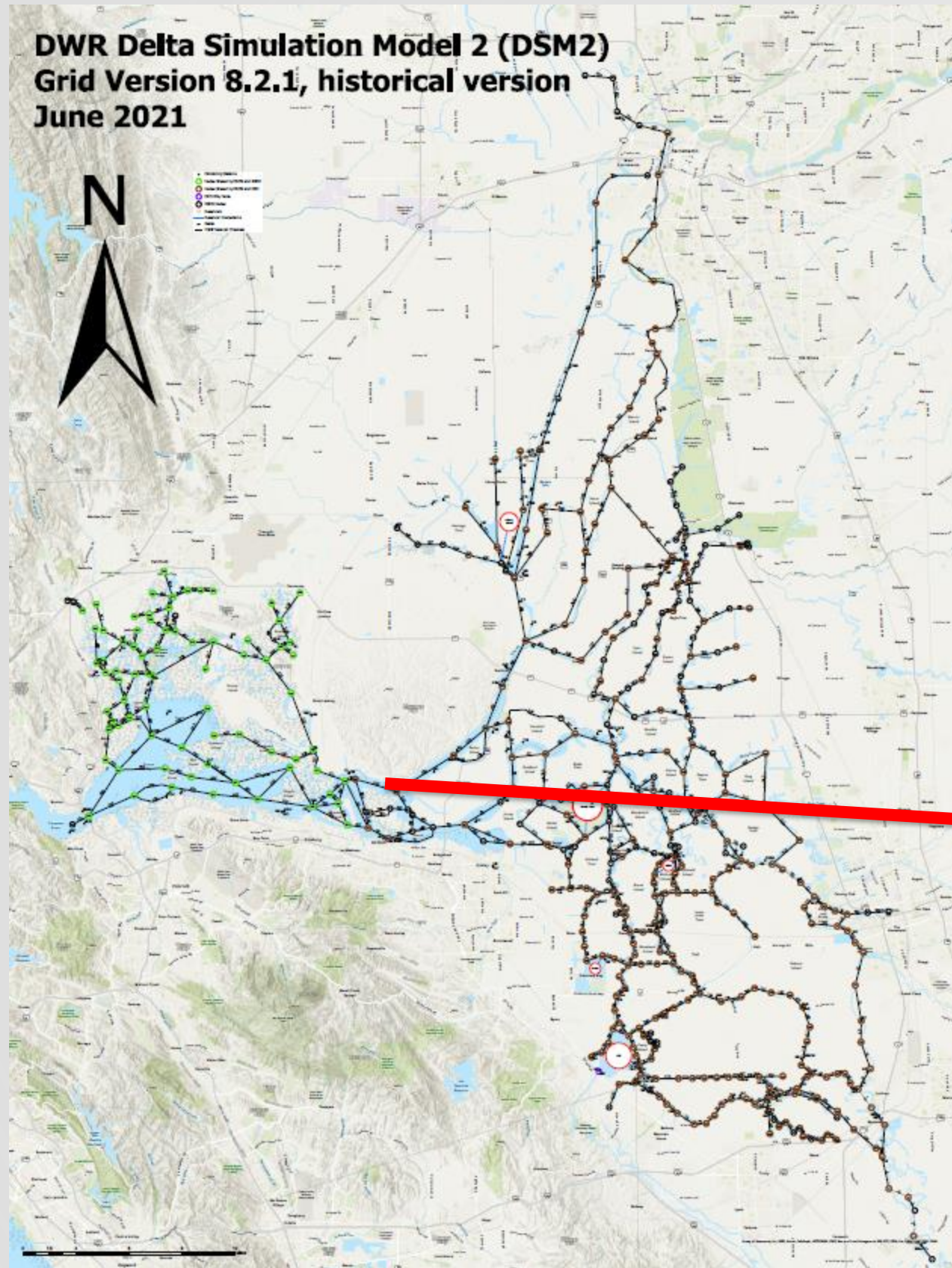
- Run CalSim
- Change channel geometry
- Add/remove/change structures



DSM2 Learning Series

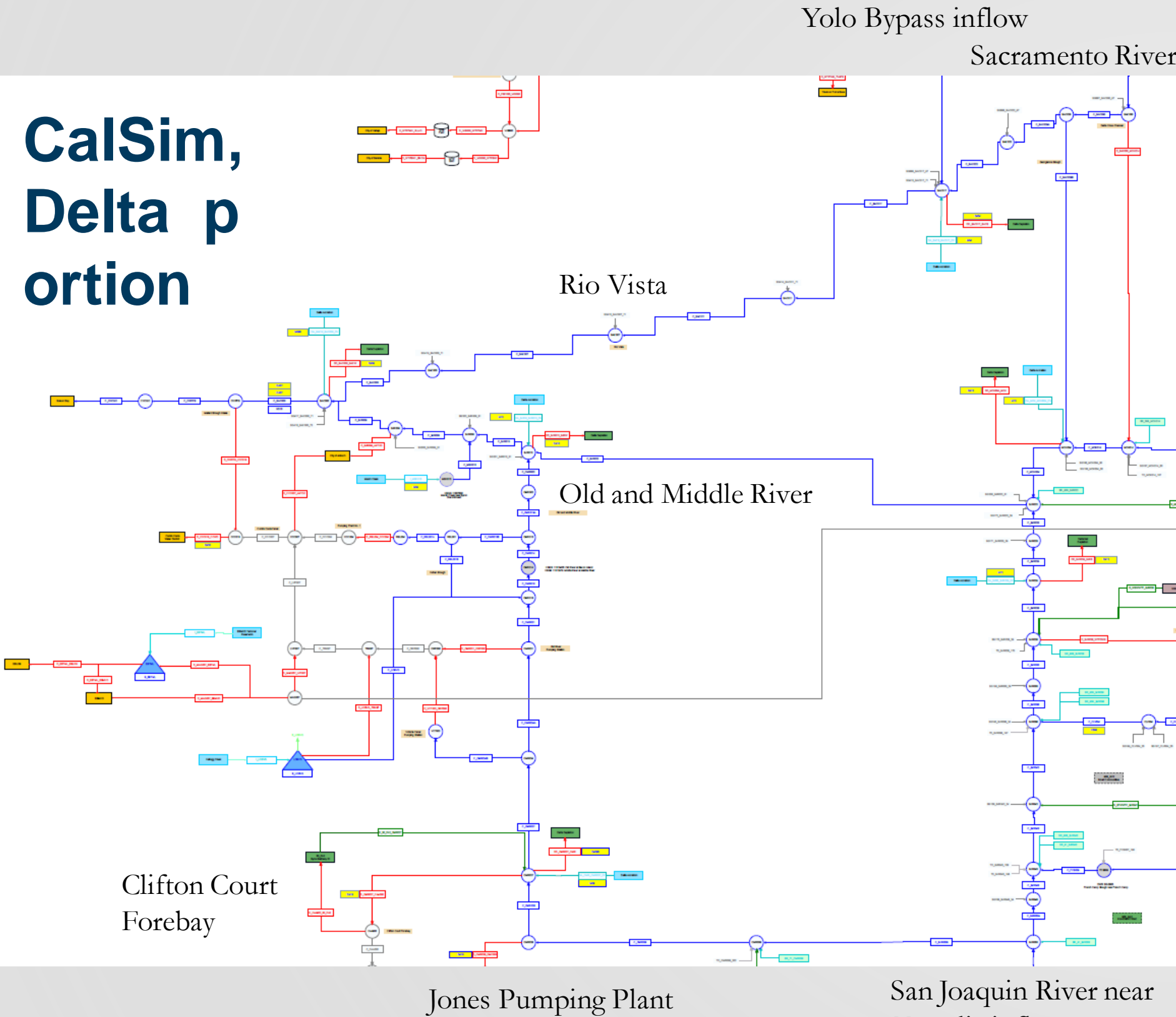
DSM2 grid map

<https://data.cnra.ca.gov/dataset/dsm2-georeferenced-model-grid/>



CalSim -> DSM2

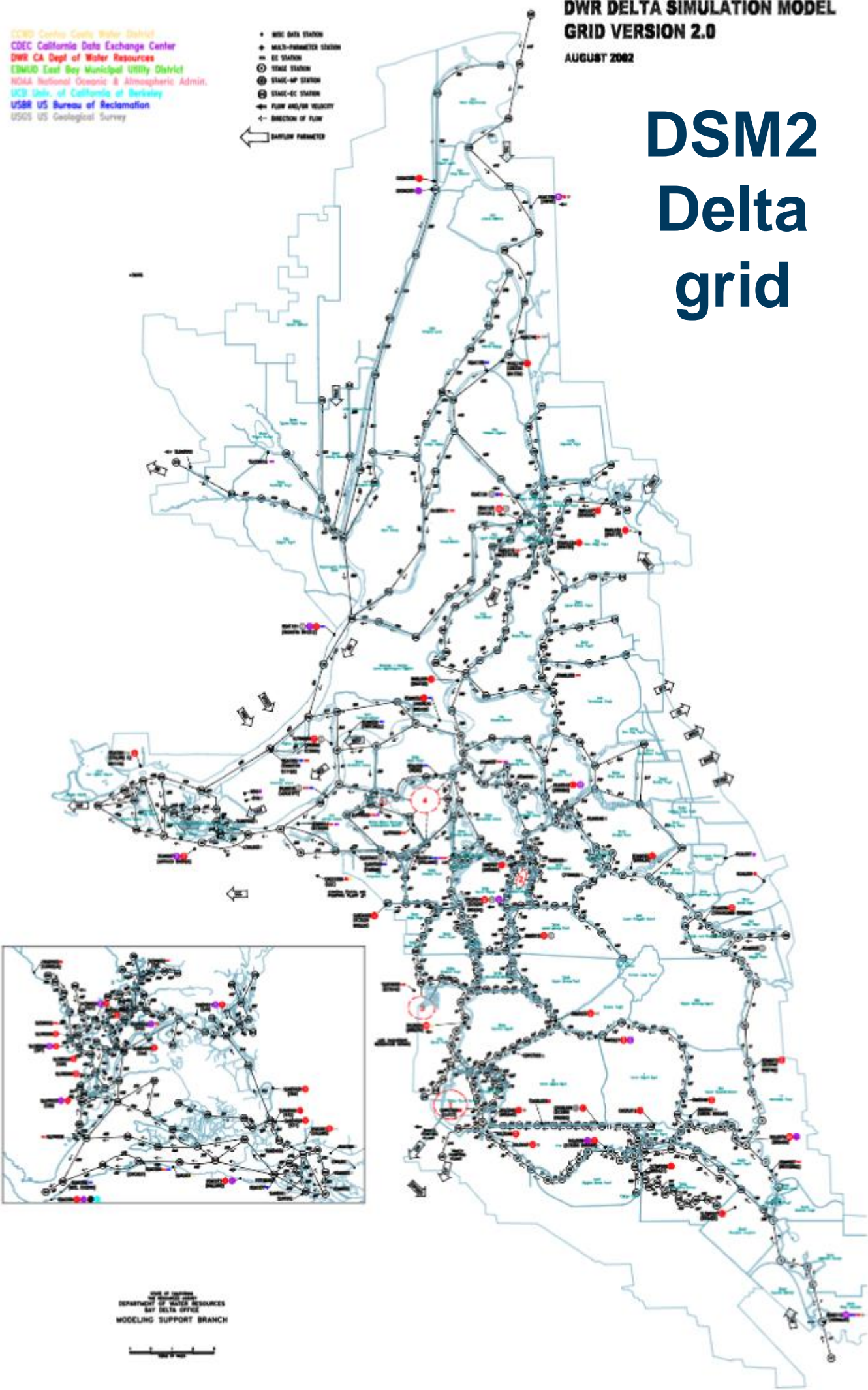
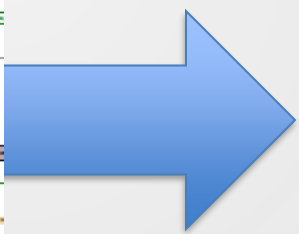
CalSim,
Delta p
ortion



Delta Cross
Channel

Mokelumne River
inflow

Calaveras River
inflow



Folders* in the CalSim/DSM2 Planning setup

Folder	Description
calsim_output	CalSim output
delta	DSM2 planning studies

***Red** means we will not change anything in the folder

***Green** means we will change something in the folder

Folders* in the CalSim/DSM2 Planning setup

The *Delta* folder

Folder	Description
calsim_output	CalSim output
Delta/DSM2_v822plan/	DSM2 planning studies
bin/	DSM2 executables
common_input/	Shared DSM2 inputs
postp/	Jupyter notebooks for plotting input/output
pydelmod_plan/	conda environment for jupyter notebooks
scripts/	Post-processing scripts
studies_planning	DSM2 example planning studies
timeseries_plan/	DSS inputs shared by all studies
vista/	Vscript/Vista application

***Red** means we will not change anything in the folder

***Green** means we will change something in the folder

Folders* in the example baseline study

Folder	Description
calsim_output	CalSim output
Delta/DSM2_v822plan/	DSM2 planning studies
studies_planning/baseline/	Existing conditions study
input	Study specific fixed input
output	Study output
scripts	For creating DSM2 input from CalSim output
timeseries	Study specific time series output

***Red** means we will not change anything in the folder

***Green** means we will change something in the folder

Planning Studies

Baseline vs Alternative

Baseline Study

Existing
conditions

Alternative Study

Climate change
hydrology
(CalSim)

Sea level rise 55
cm (1.8 feet)

Questions?

Please enter questions into the chat



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