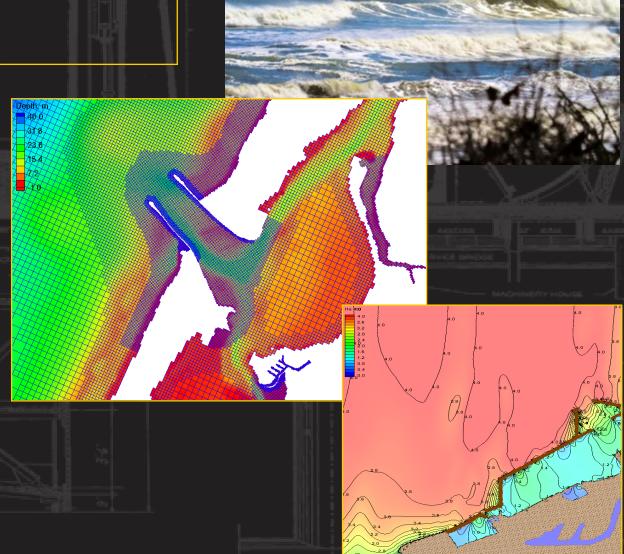
VIEWING AND POST-PROCESSING RESULTS

Mitchell Brown Liz Holzenthal Honghai Li

Coastal & Hydraulics Laboratory
US Army Engineer Research and Development
Center (ERDC)











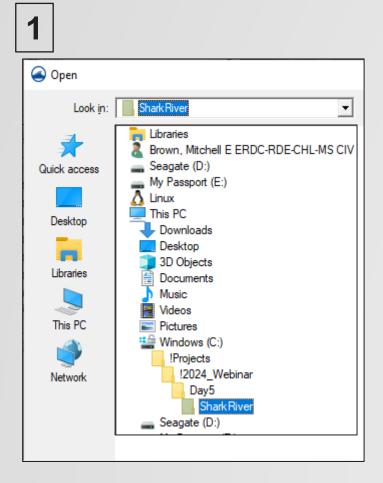


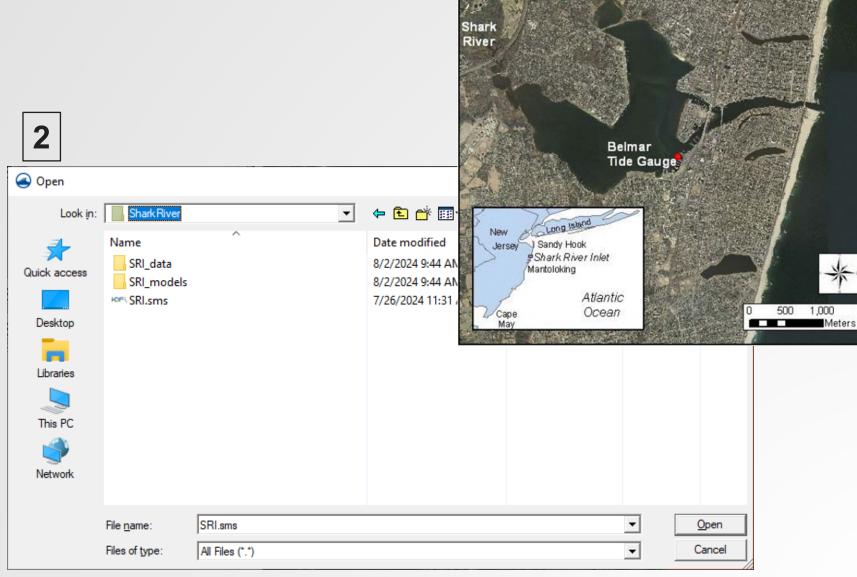
Load Project



Model Solution

– Import Project (*.sms)







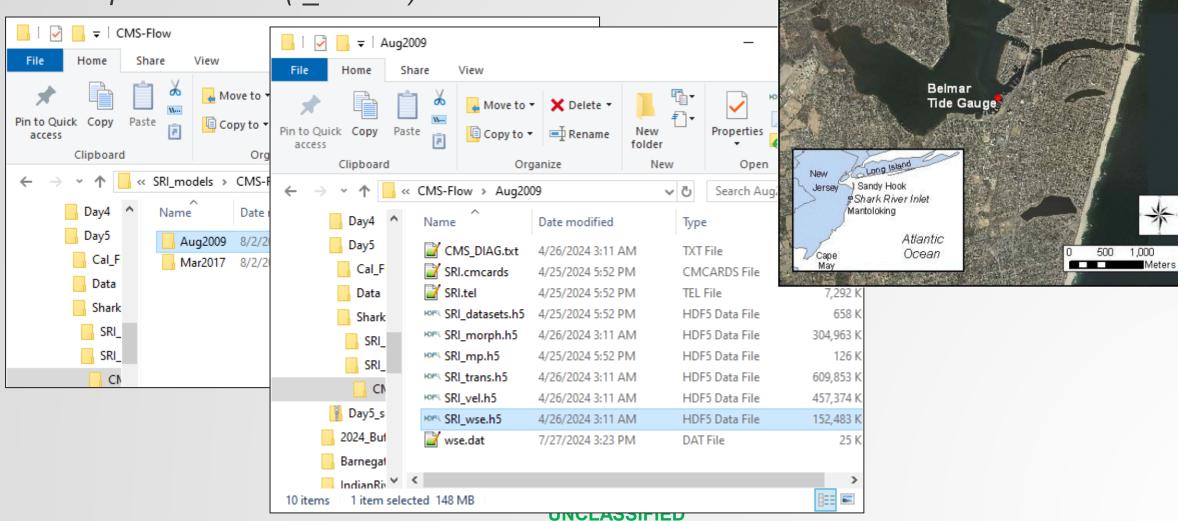
Time Series – Water Surface Elevation Solution

River



Model Solution

– Import Datasets (*_wse.h5)



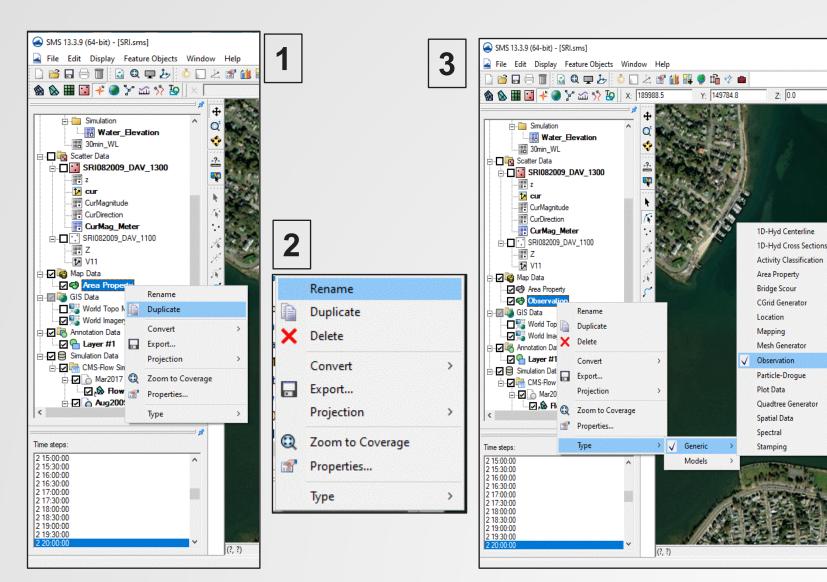




Z: 0.0

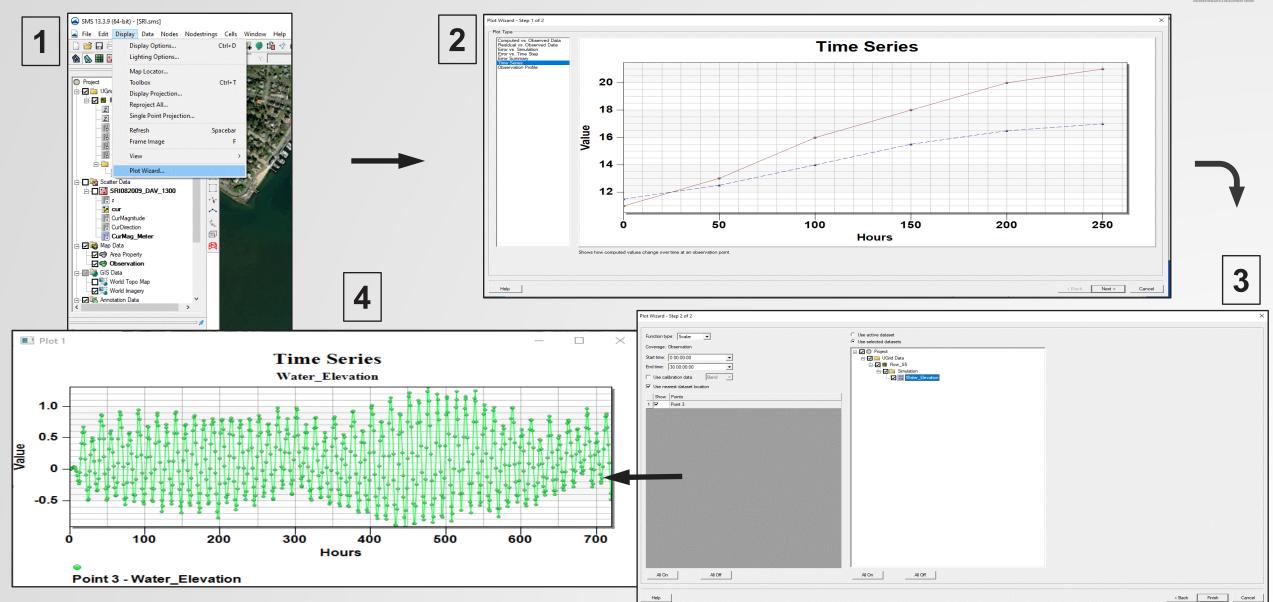
Model Solution

- Generate an observation feature point at the location of tide gauge
- Assign the point attribute as "observation"







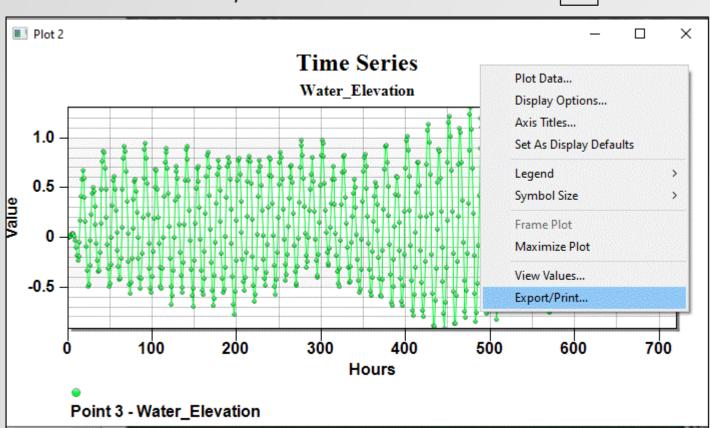


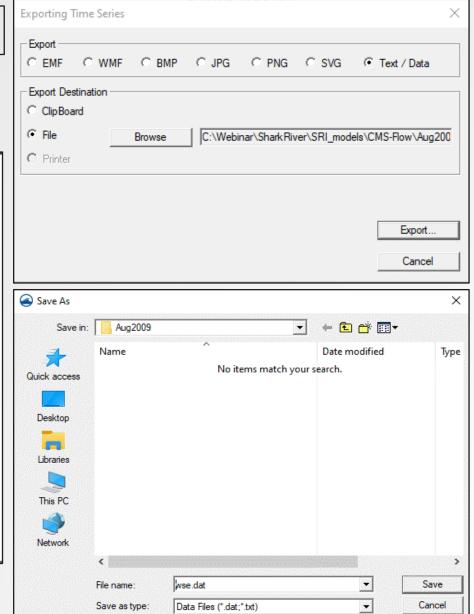




Model Solution

Extract the raw data
 values from the plot





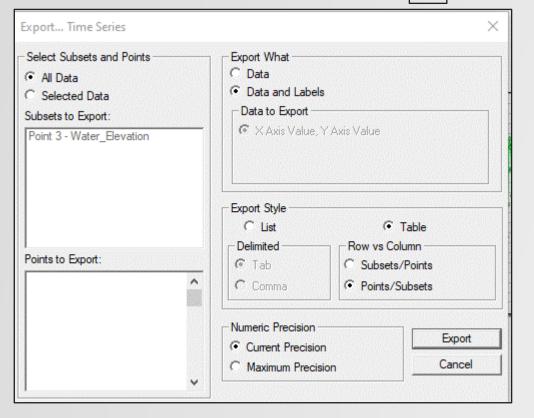


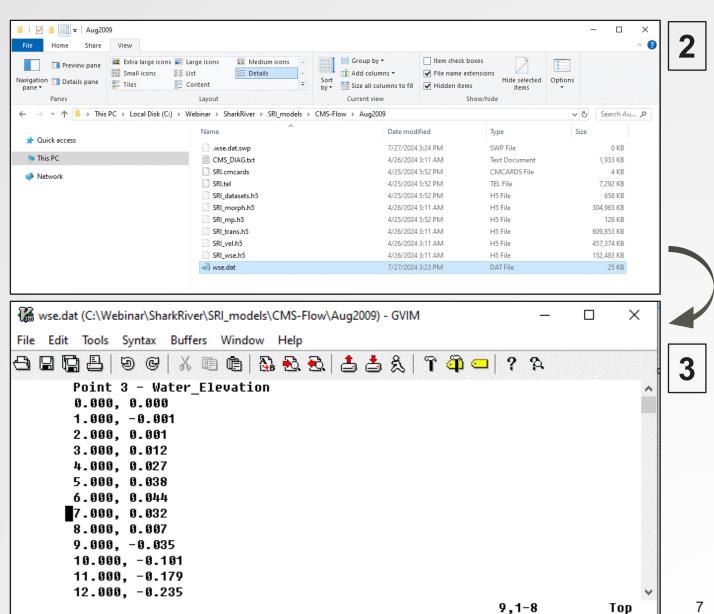


Model Solution

Extract the raw data
 values from the plot









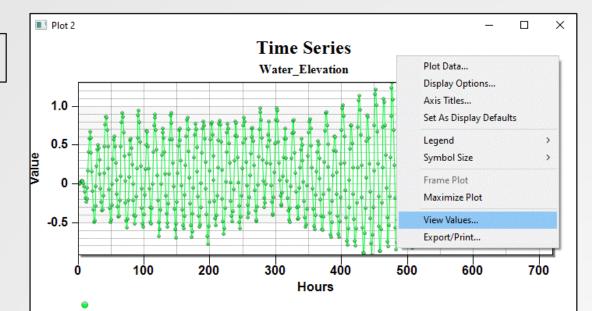
2

UNCLASSIFIED



Model Solution

- Extract the raw data values from the plot
- View the calculated data values
- The data are presented in a table that can be highlighted and copied to another program.



Point 3 - Water_Elevation



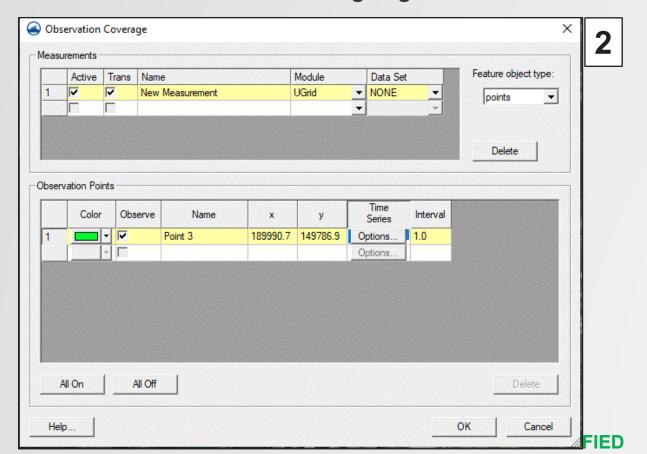


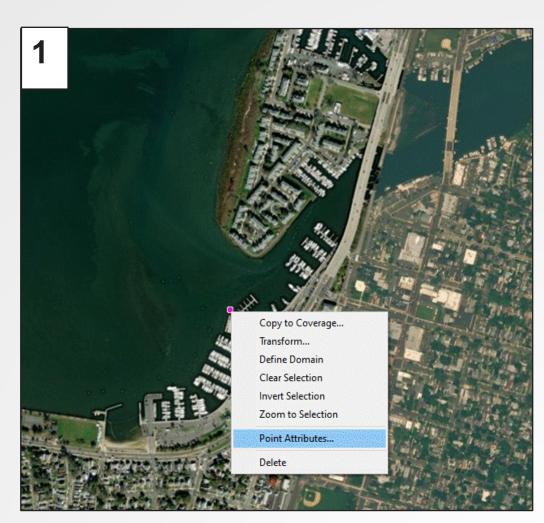




Measurements

- Import water surface elevation measurements
- Compared the calculated water surface elevation with the measured data at the tide gauge



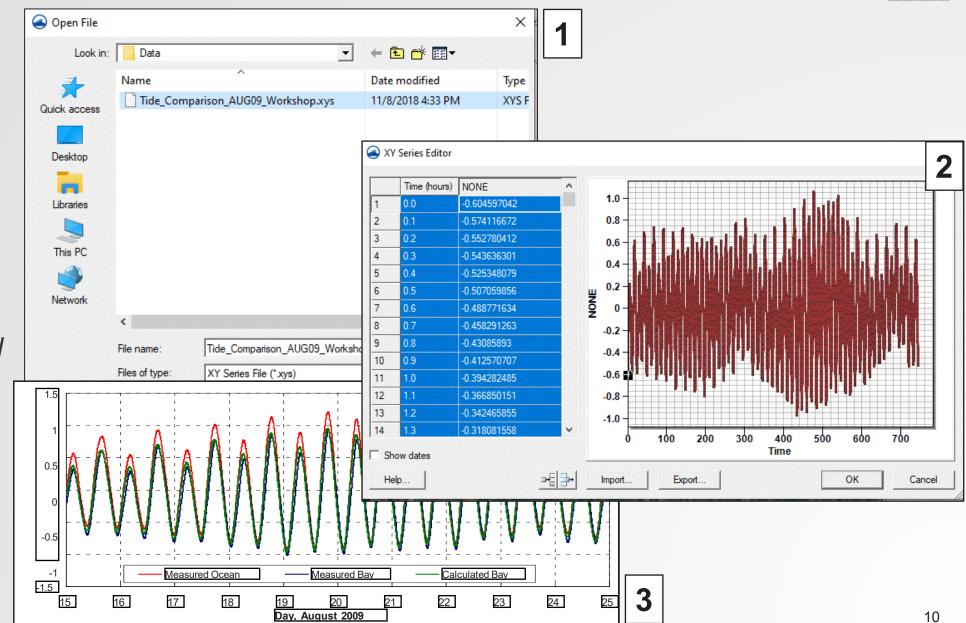






Measurements

- Import water surface elevation measurements
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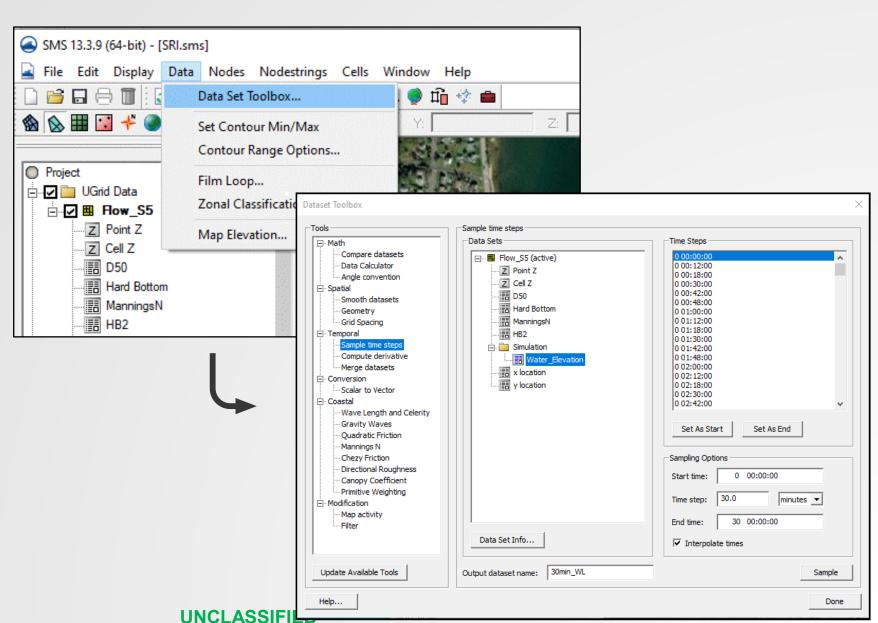






Model-Data Comparison

- Time series calculated and measured data do not have the same time interval for statistical analysis
- Use "Sampling" feature
 within the data
 calculator to retrieve
 the output from the
 solution with desired
 time interval

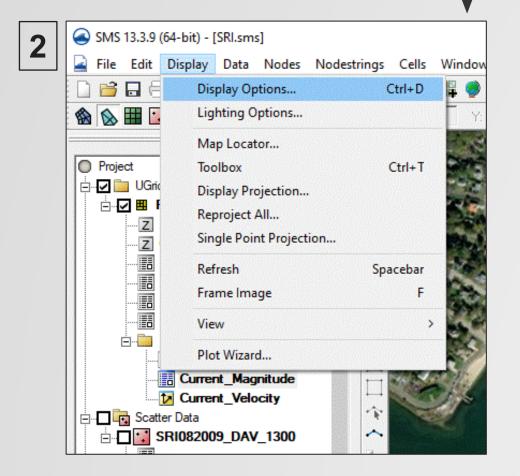


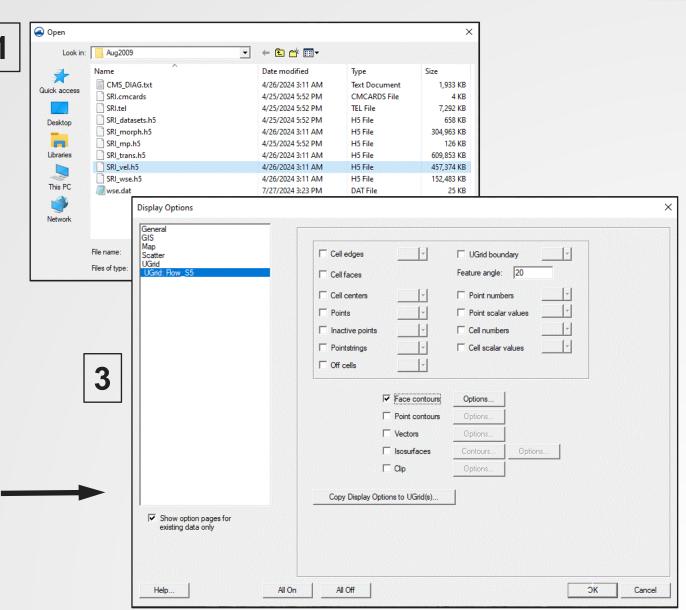






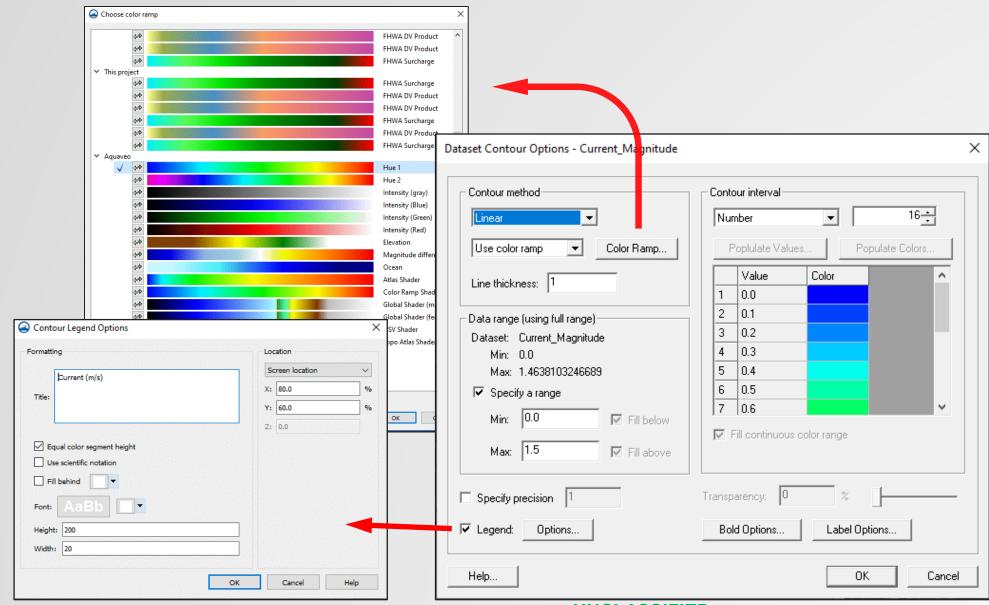
– Import Datasets (*_vel.h5)











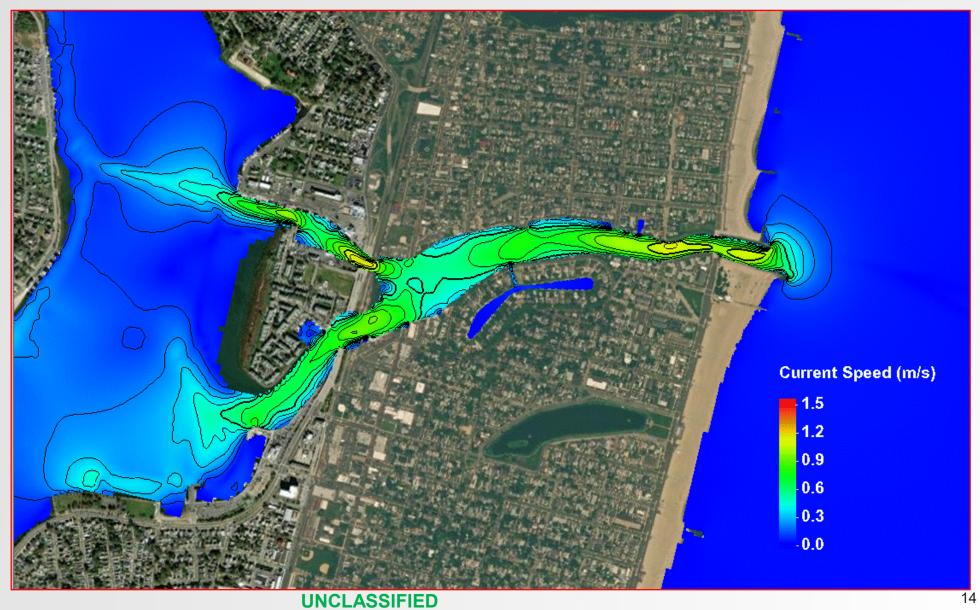
Contour Options

- Method
- Color map
- Line thickness
- Data range
- Data precision
- Legend
- Interval
- Transparency
- Bold options
- Label options



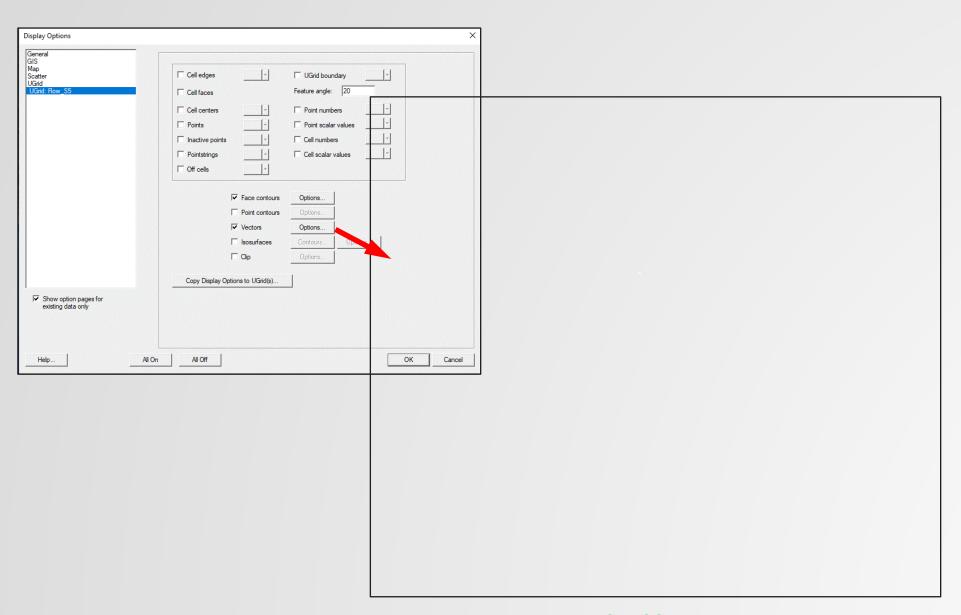


August 9, 2009 08:00 AM GMT









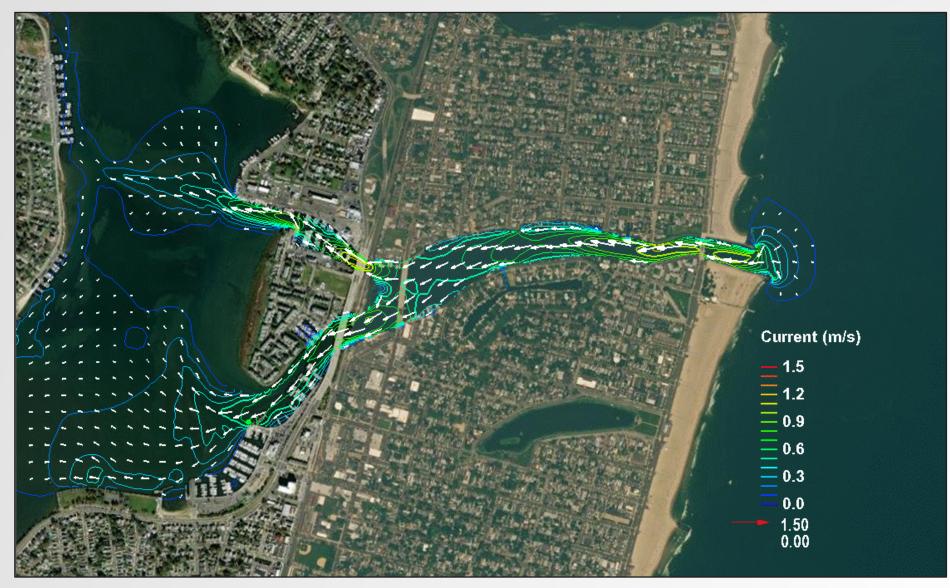
Vector Display

- Display
- Spacing
- Offset
- Data range
- Legend
- Length
- Scale
- Color range
- Vector size





August 9, 2009 08:00 AM GMT

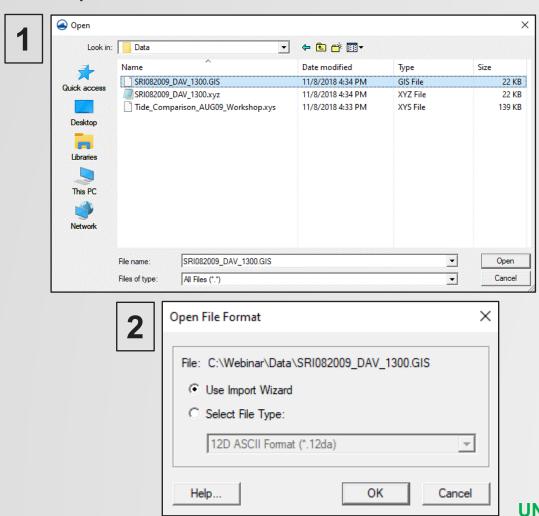


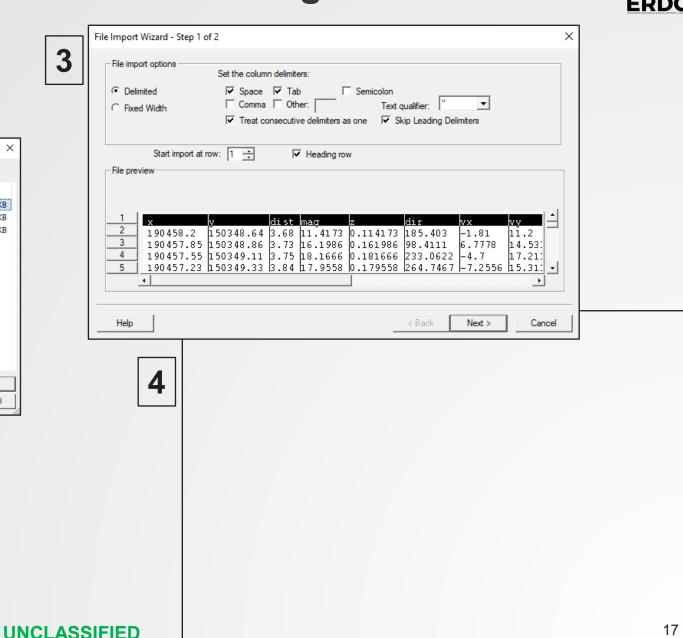




Current across Transects

Import ADCP current measurements





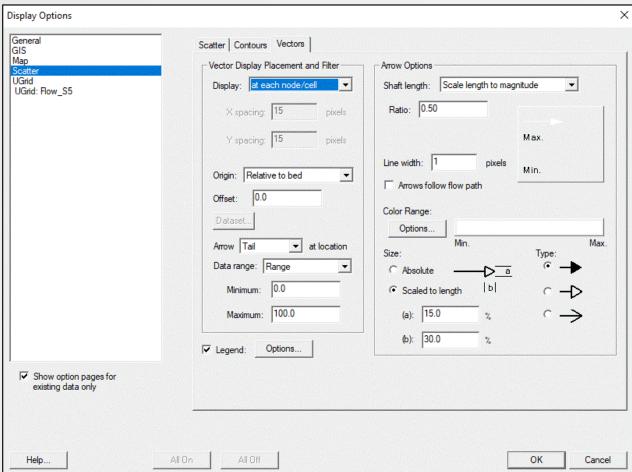




Current across Transects

Import ADCP current measurements









Current across Transects

Import ADCP current measurements

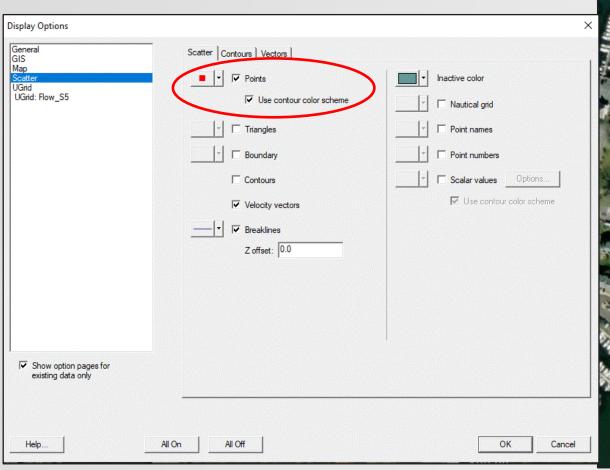






Current across Transects

Use contour color scheme



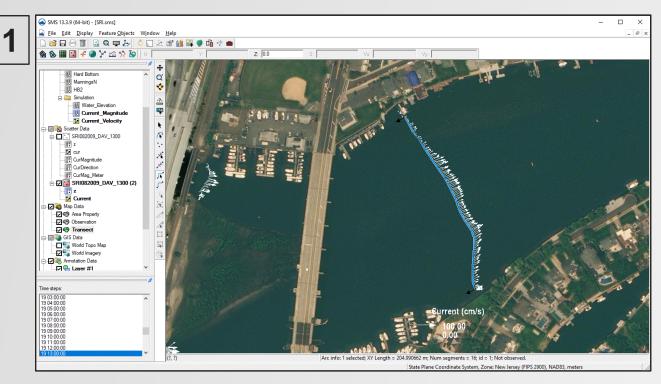


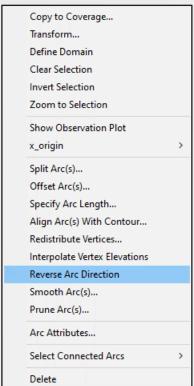




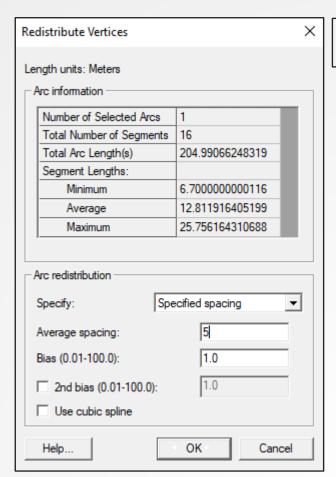
Measured and Calculated Current Speed

Generate an arc through the measured points





2



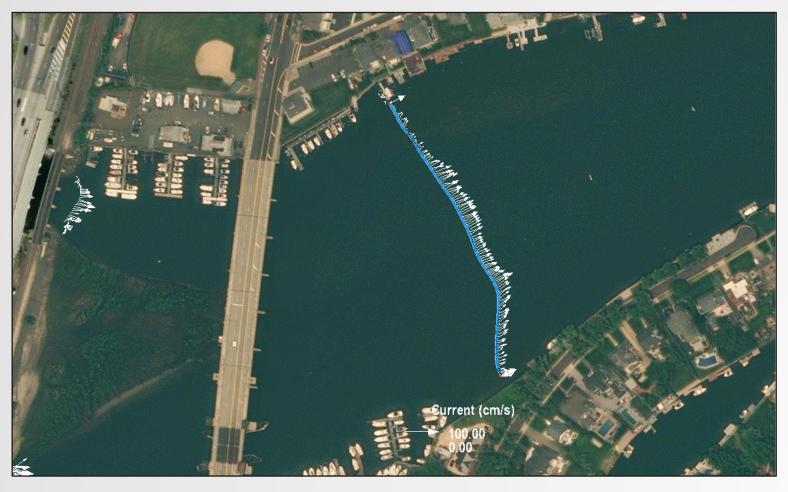




Measured and Calculated Current Speed

- Generate an arc through the measured

points

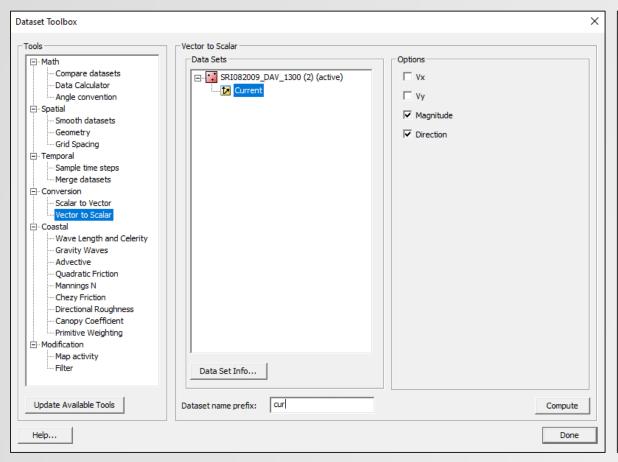


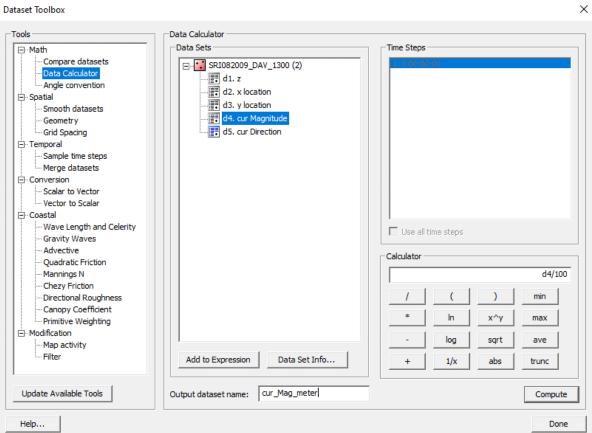




Measured and Calculated Current Speed

Create a new dataset in meters



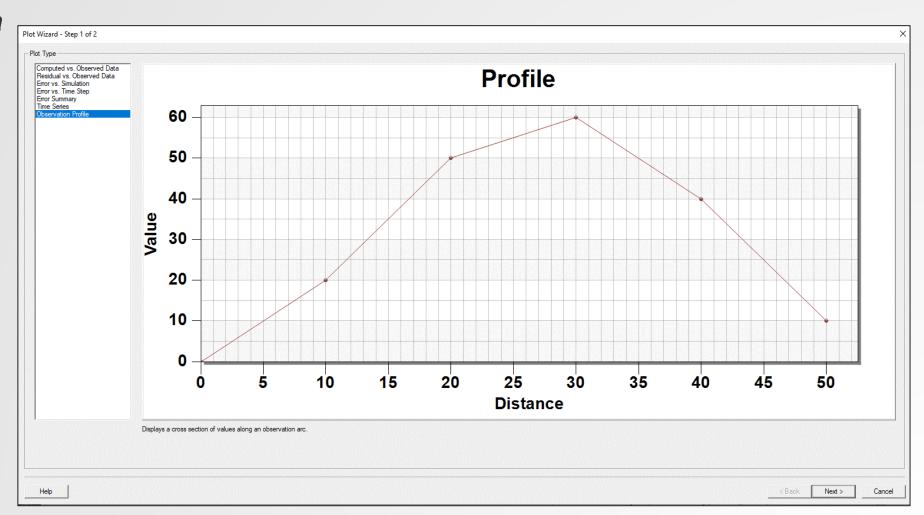






Measured and Calculated Current Speed

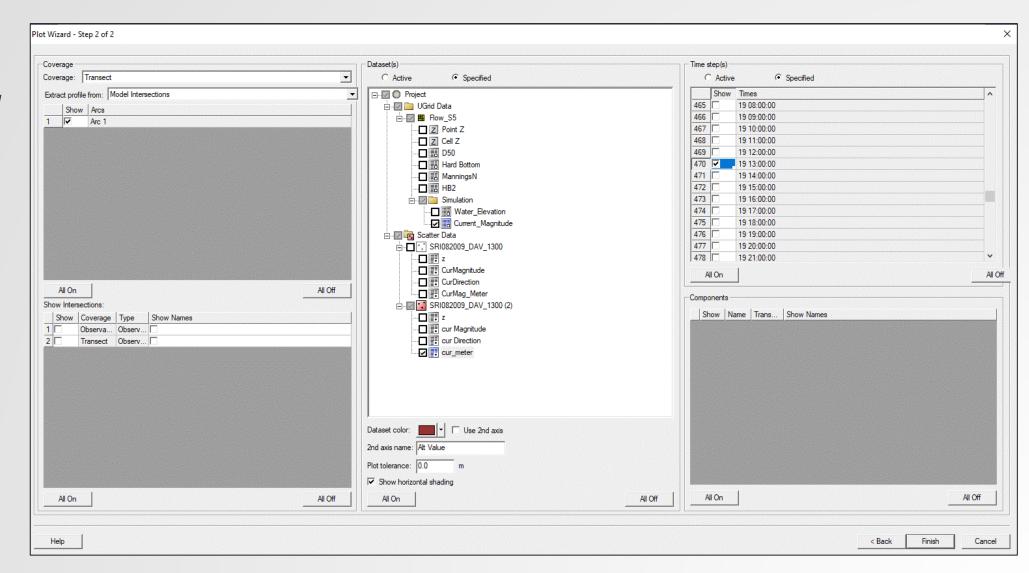
Display current data







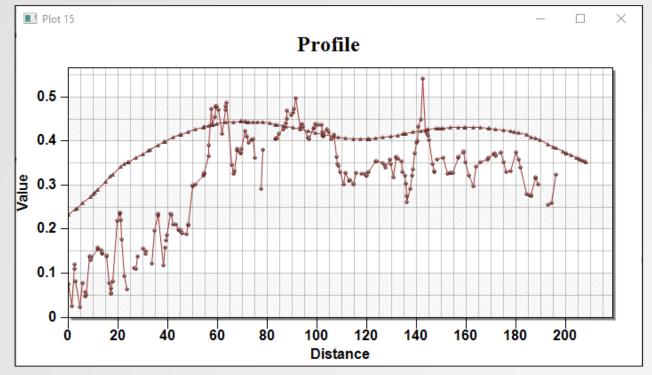
Extract profile
 from model
 calculation and
 measured data







 Extract profile from model calculation and measured data









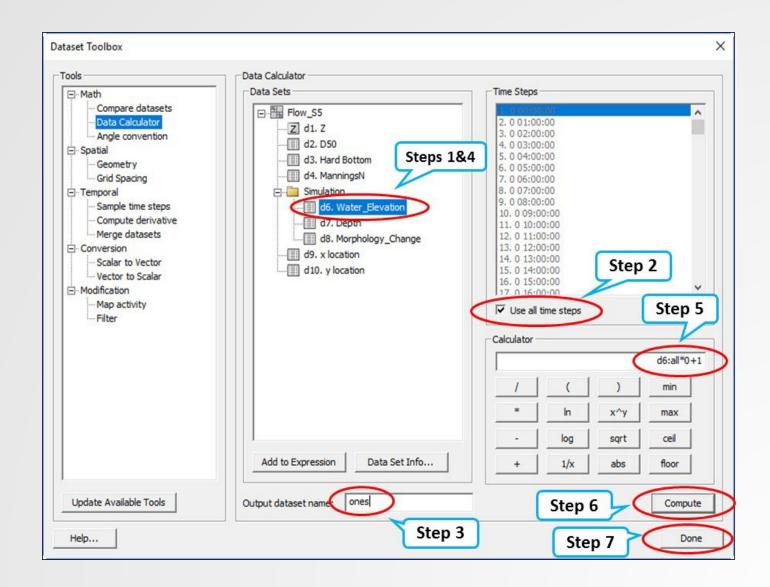
- Calculate sediment fluxes across observational arcs
- Import Datasets (*_trans.h5)







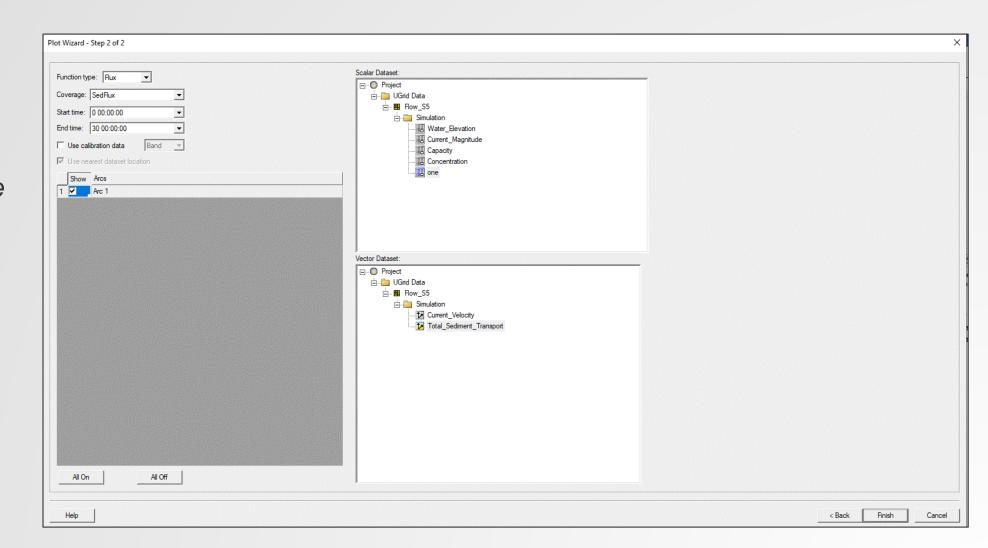
- Calculate sediment fluxes across observational arcs
- Import Datasets (*_trans.h5)
- Generate a dataset with the constant value, 1.0.







- Calculatesediment fluxesacrossobservational arcs
- Use an executable code to obtain total sediment flux across the transect

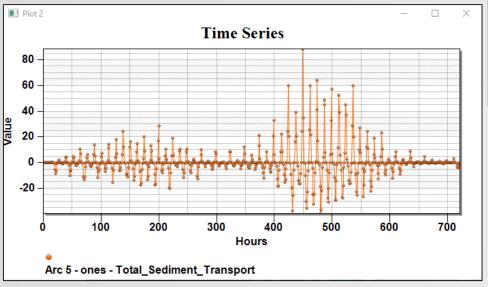


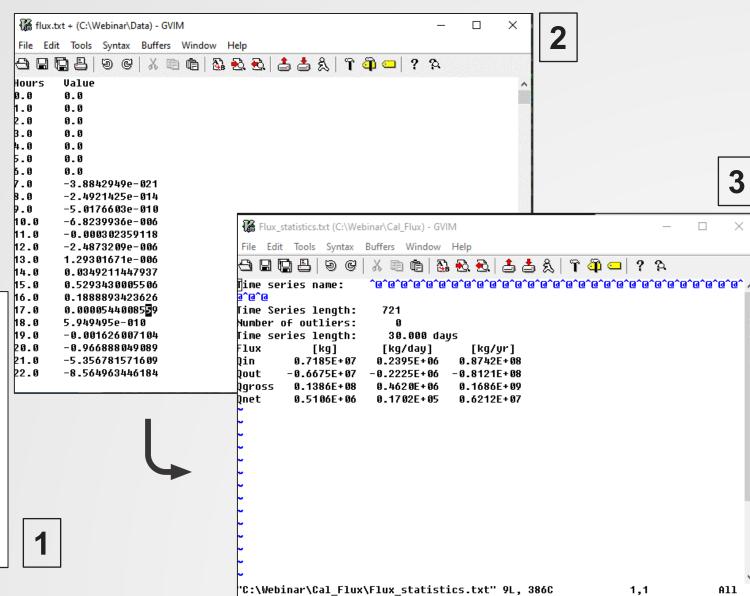




- Calculate sediment fluxes across observational arcs
- Use an executable code to obtain total sediment flux across the transect











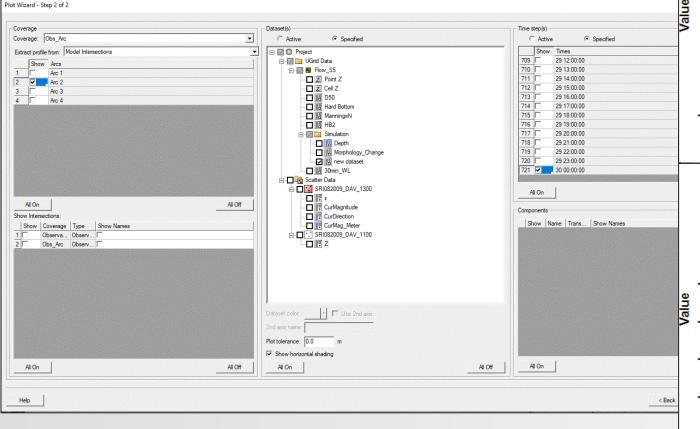
Channel depth change

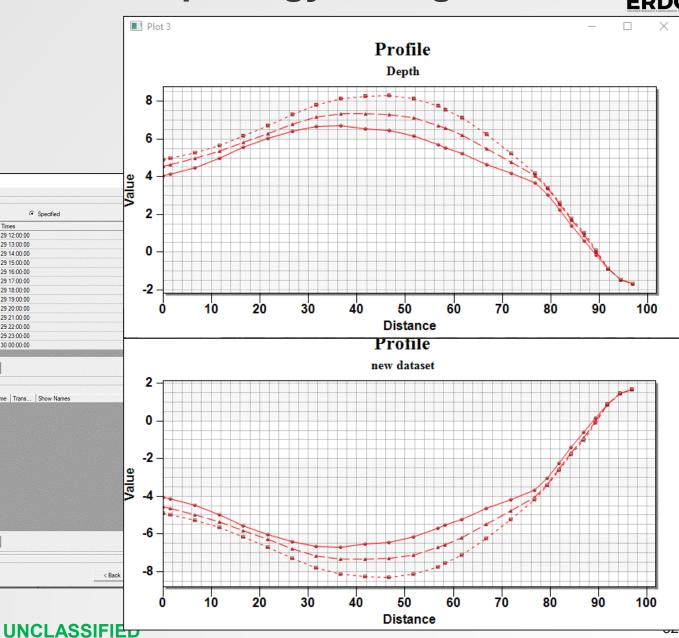






- Channel depth change
- Use Data Set Toolbox to switch the sign of the depth dataset





QUESTIONS?

CMS Team

Honghai Li

- Honghai.Li@usace.army.mil

Lihwa Lin

- Lihwa.Lin@usace.army.mil

Mitchell Brown

– Mitchell.E.Brown@usace.army.mil

Liz Holzenthal

- Elizabeth.R.Holzenthal@usace.army.mil

Dylan Robinson - Dylan.M.Robinson@usace.army.mil









