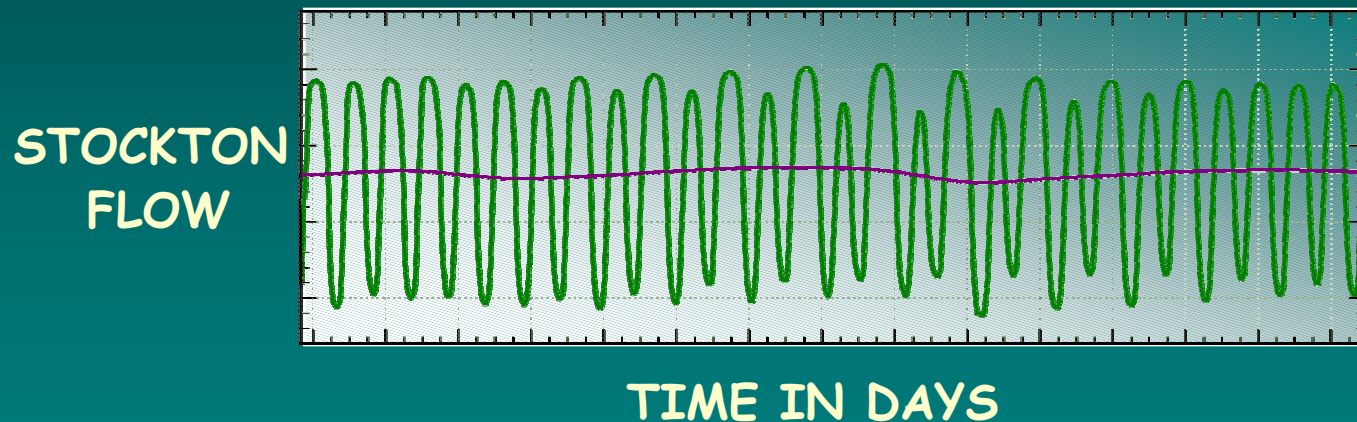


# 3D Hydrodynamic Modeling of the Stockton DWSC

Stanford University  
Univ. of California, Davis  
U.S. Geological Survey



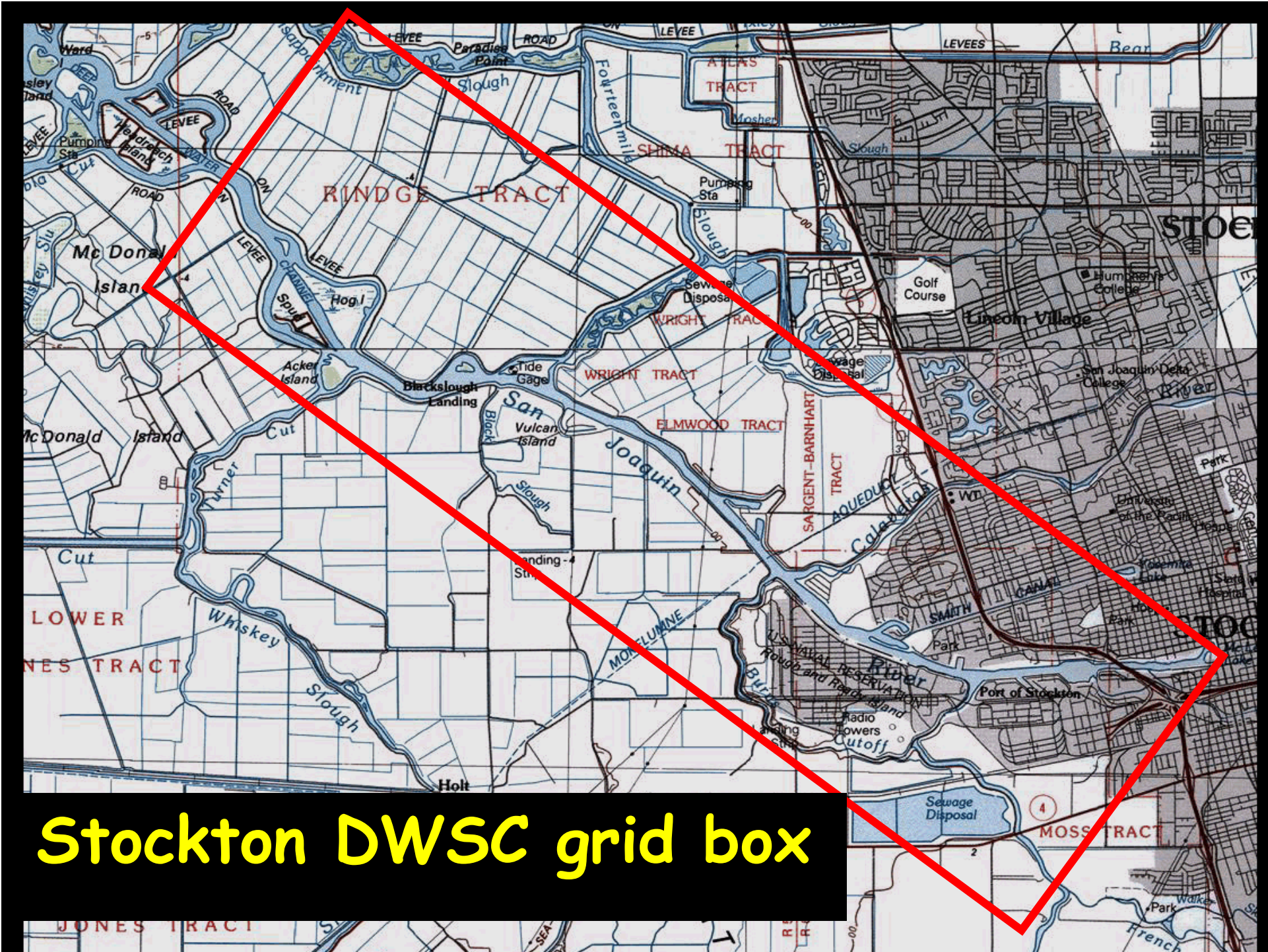
Meeting of the San Joaquin River  
DO TMDL Technical Working Group  
Wednesday, July 21, 2004

# Semi-implicit 3D (Si3D) Model

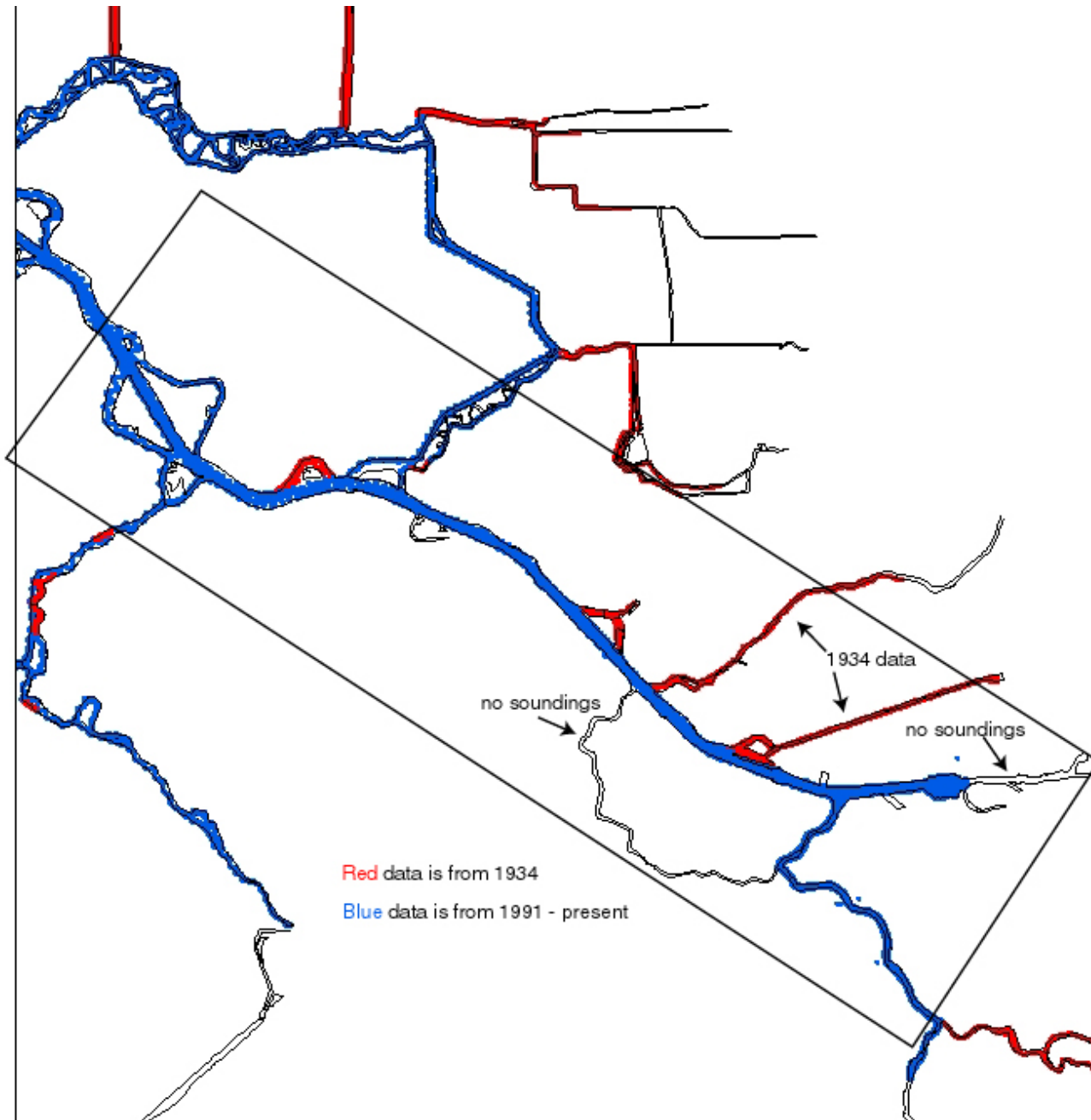
Developed by the USGS as part of the Interagency Ecological Program for the San Francisco Bay/Delta

Support provided by:

- U.S. Geological Survey
- CA Dept. of Water Resources
- U.S. Bureau of Reclamation

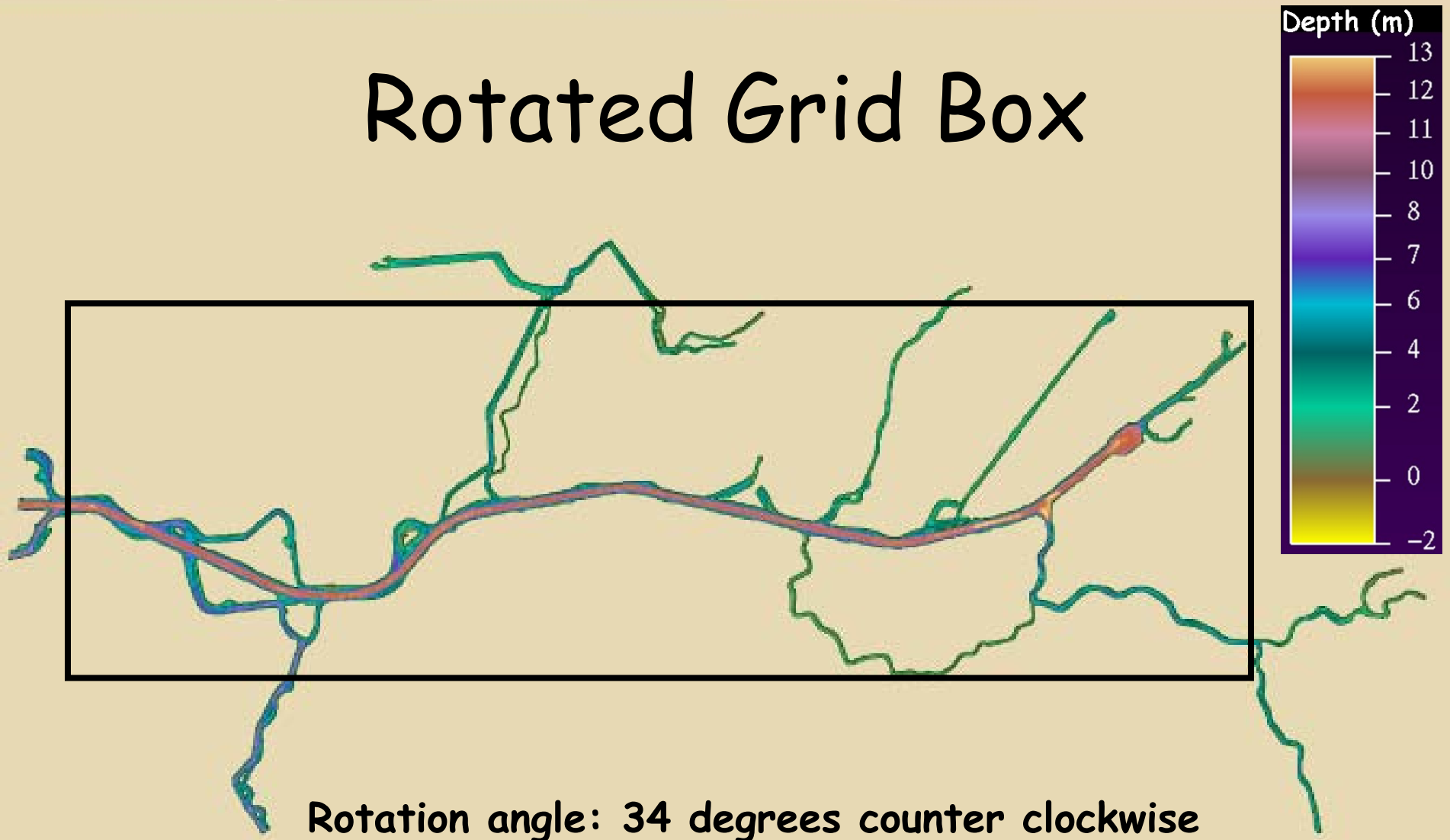


**Stockton DWSC grid box**

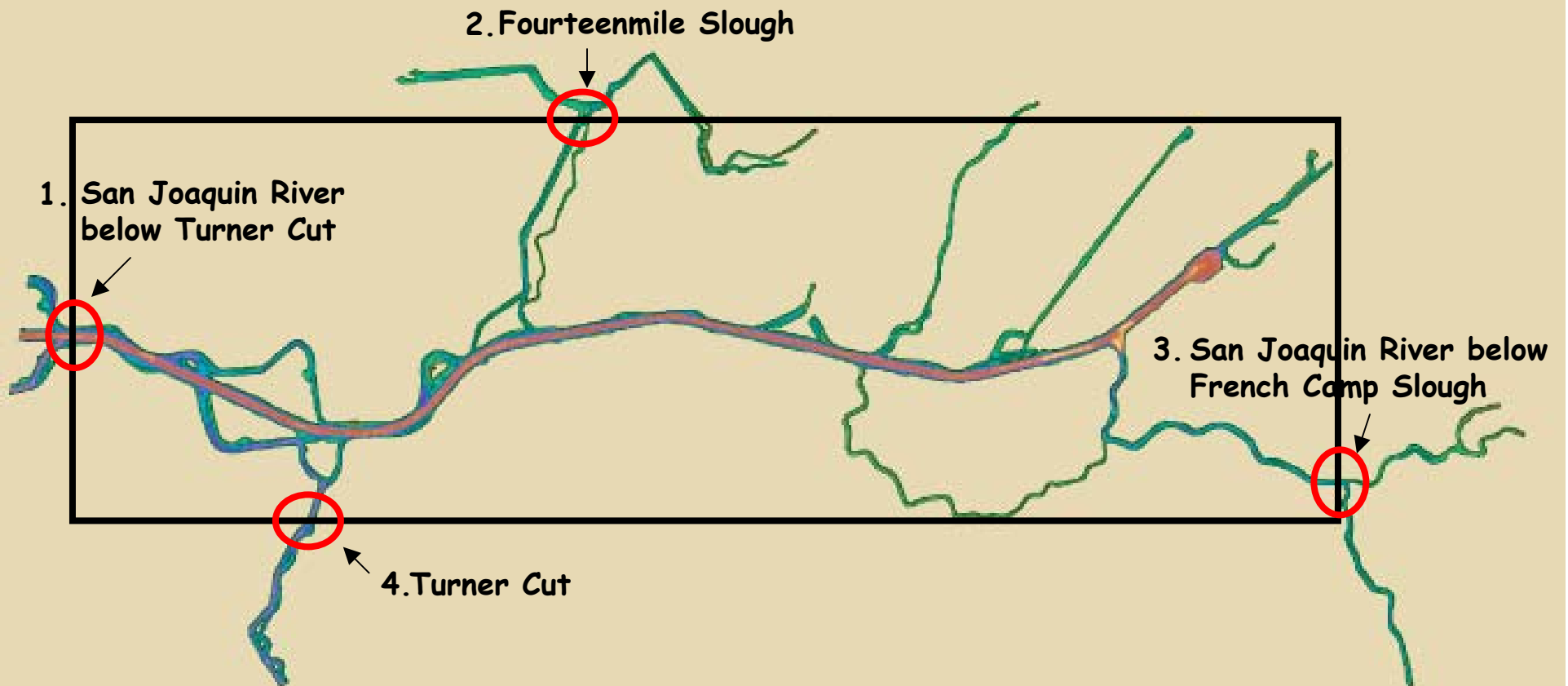


**Source of bathymetry data**

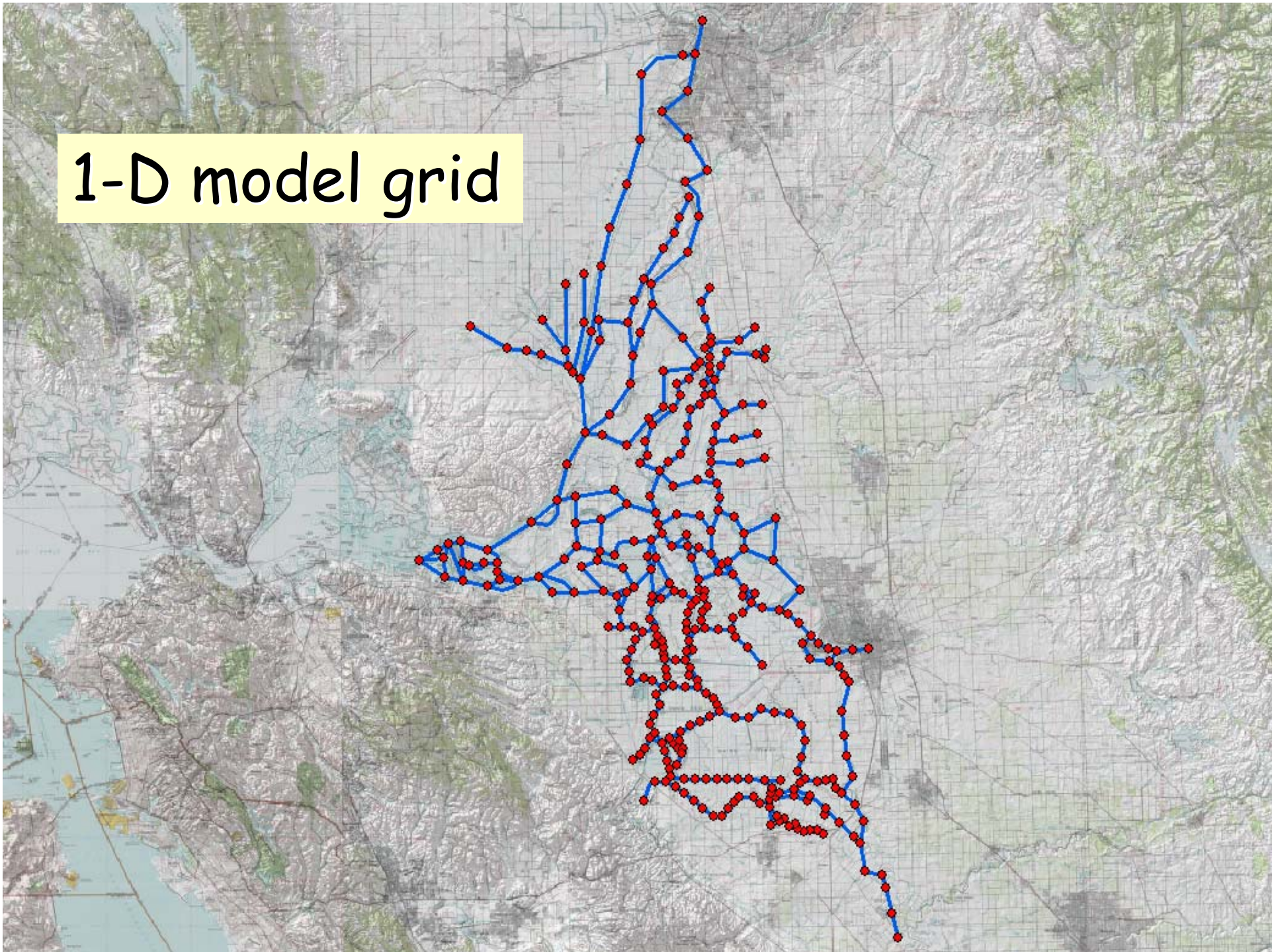
# Rotated Grid Box



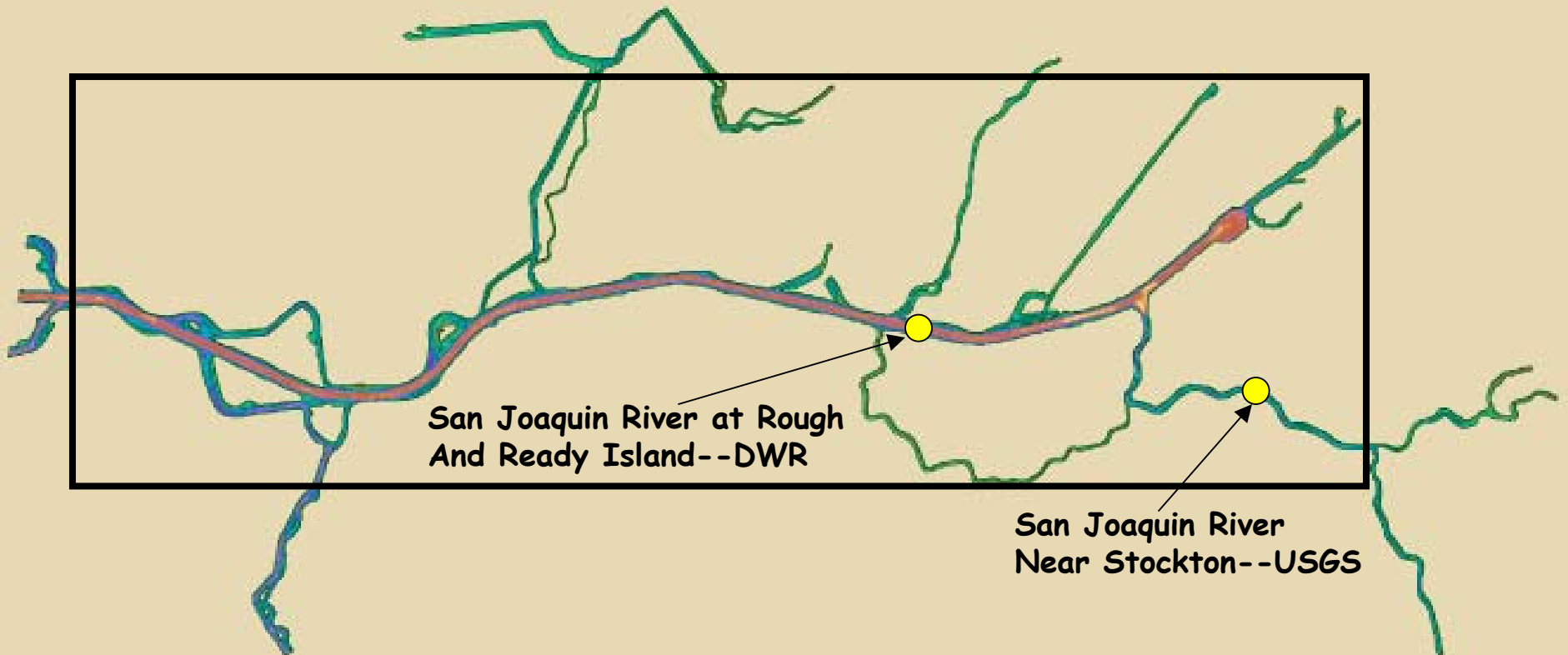
# Boundary Condition Locations



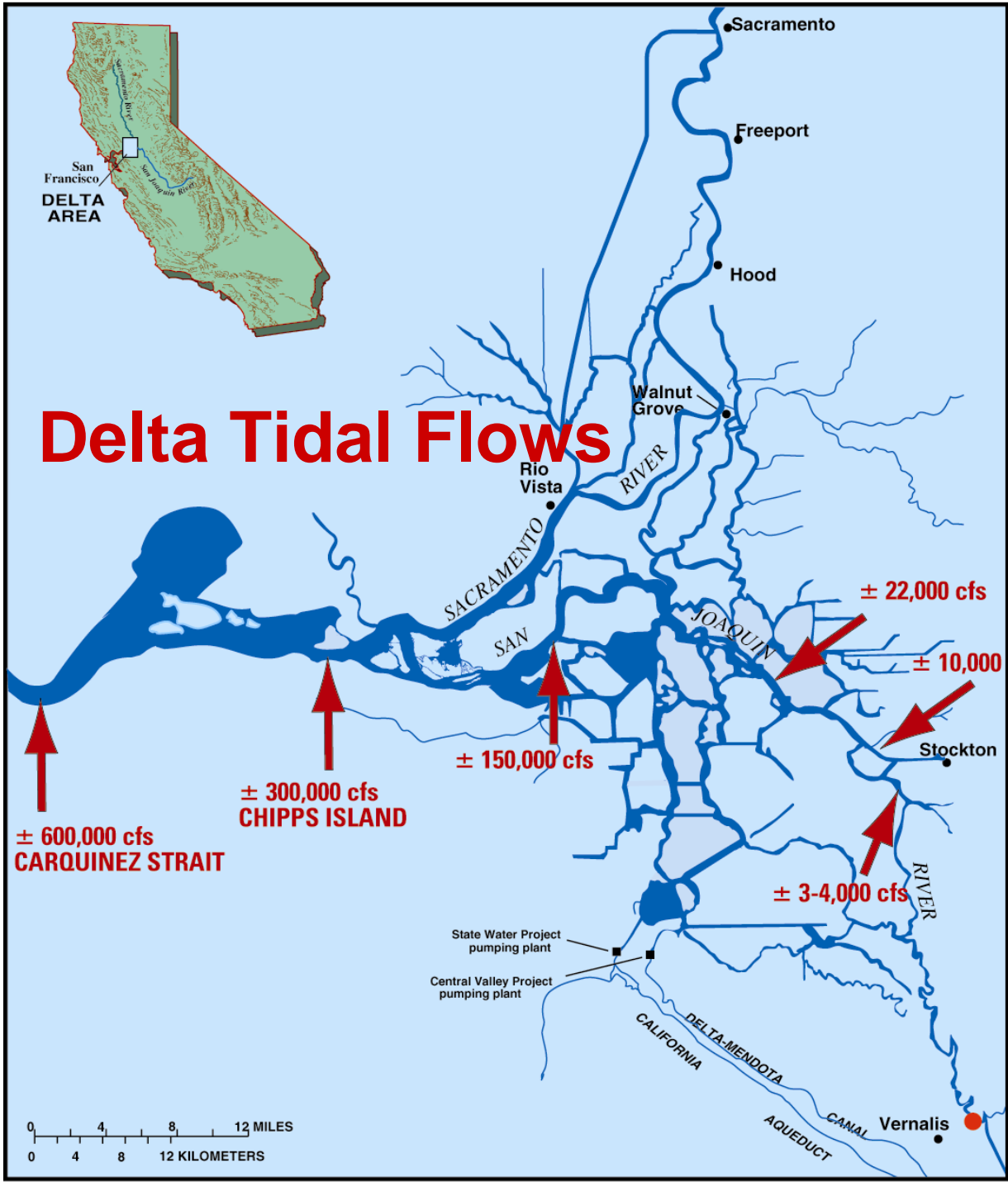
# 1-D model grid



# Flow Stations



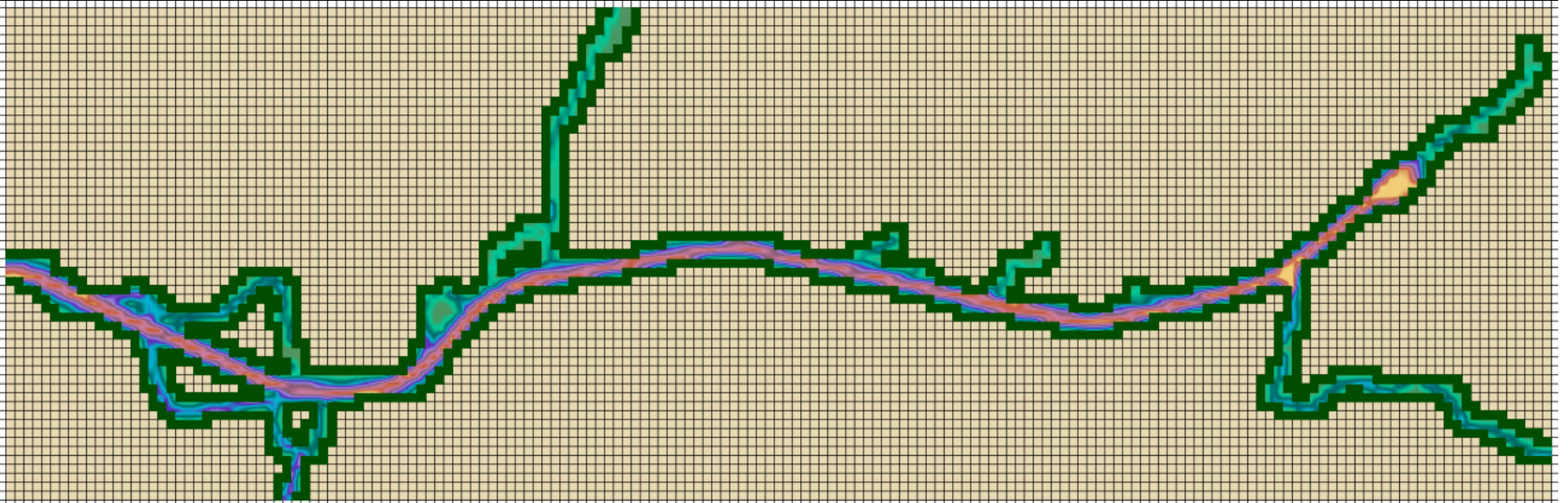




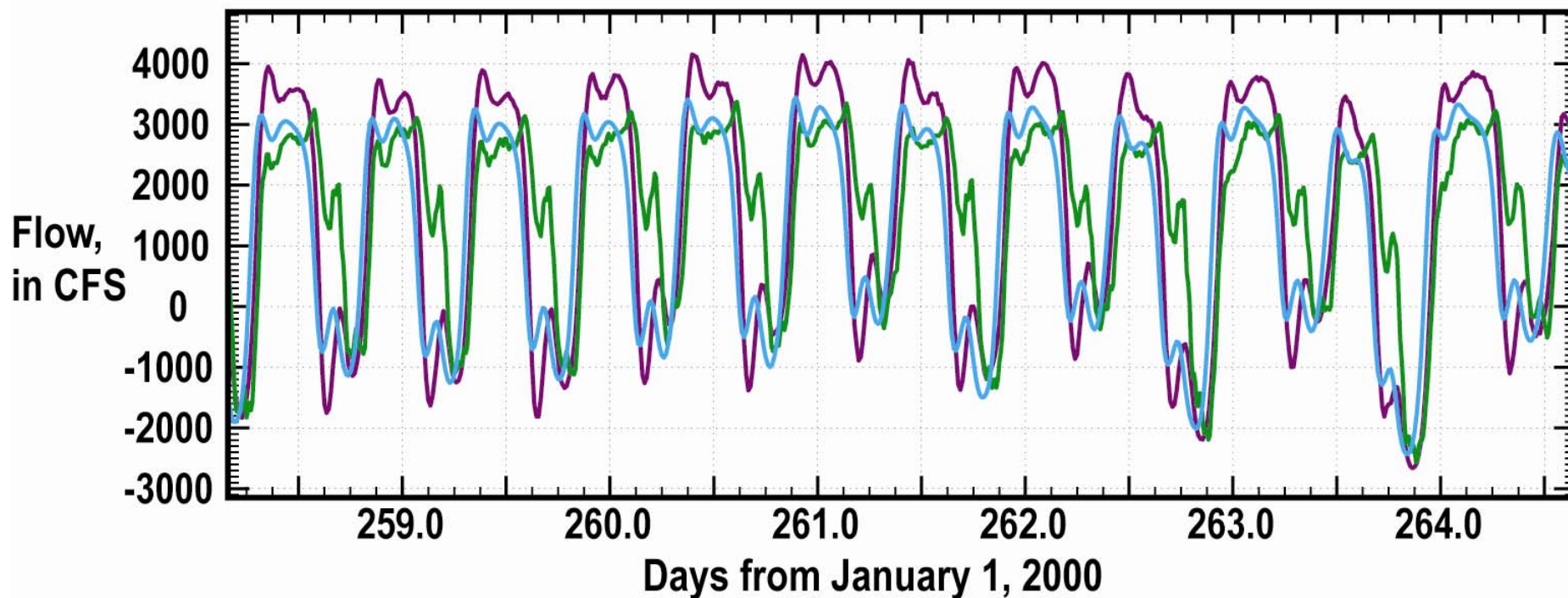
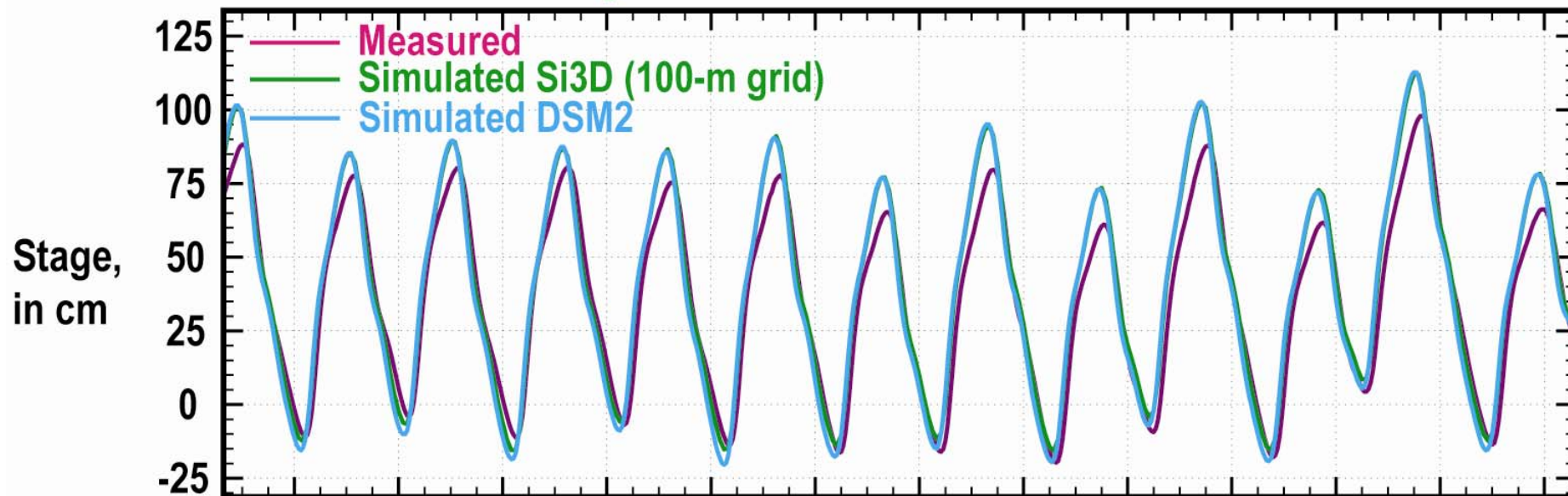
# Numerical Grids

- 10 meter
- 20 meter
- 30 meter
- 100 meter

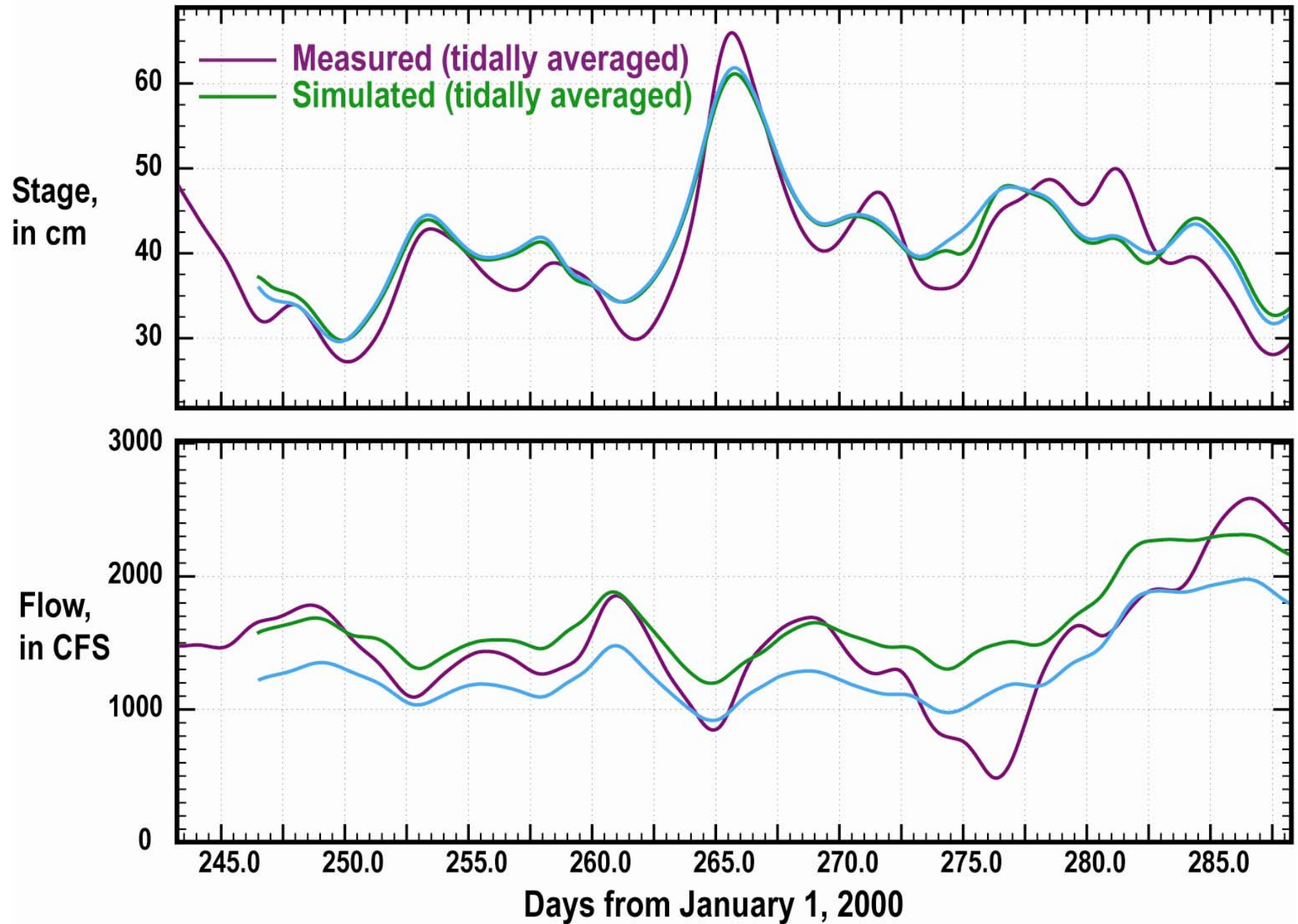
# 100-m Grid



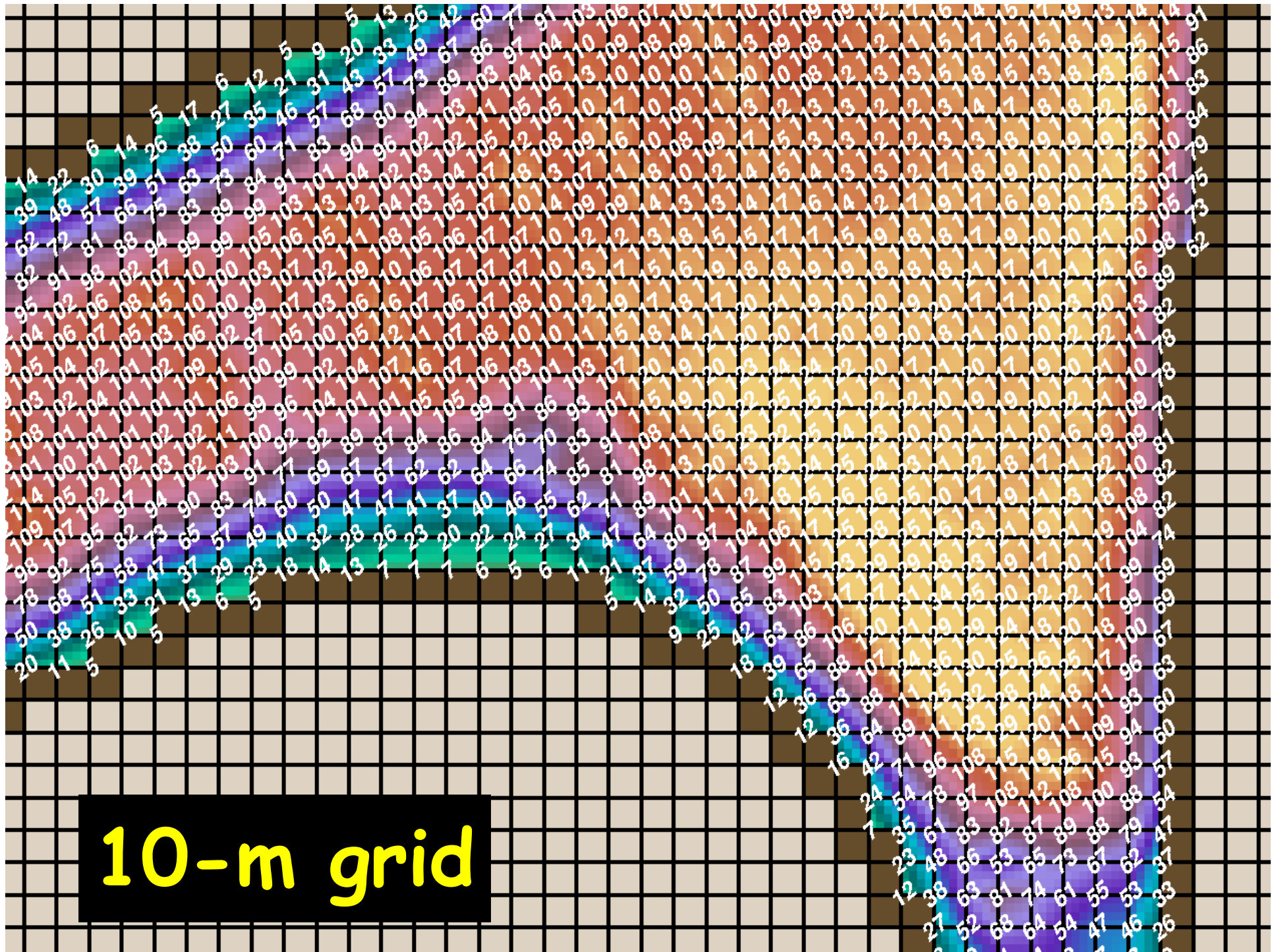
# San Joaquin River near Stockton



# San Joaquin River near Stockton







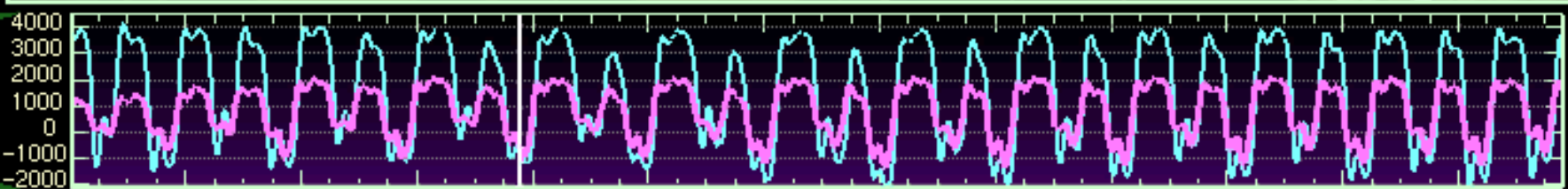
10-m grid



09-03-00 at 21:05







09-05-00 at 21:06

