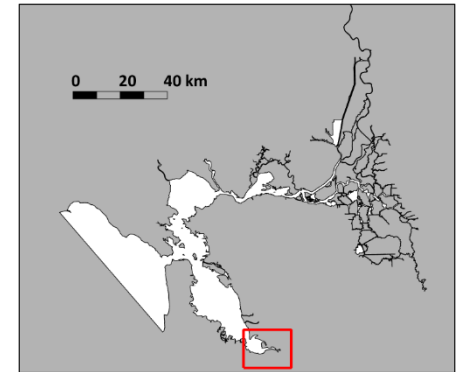


Model Upscaling From Tributaries to Entire Bay

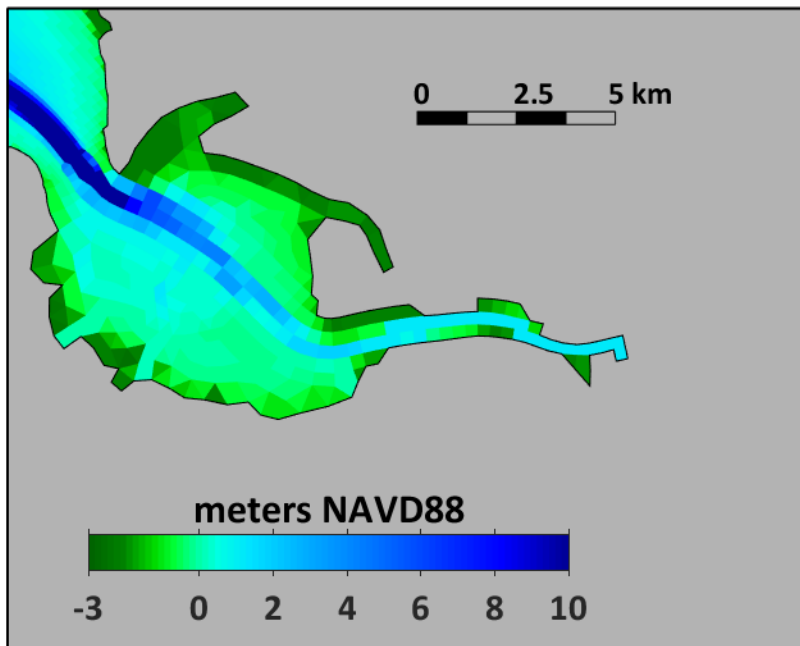
- Whole-Bay high-resolution model
 - High-resolution results throughout the Bay
 - Computationally intensive
- Grid nesting
 - Computationally more efficient than Bay-wide high-resolution model
 - Could be used as an offline one-way nested grid for scenario analysis
 - Open boundary conditions are difficult
- Targeted focus regions of grid refinement
 - Computationally more efficient than Bay-wide high-resolution model
 - No open boundary conditions for high-resolution area
 - Cannot be run as standalone high-resolution model

Model Upscaling From Tributaries to Entire Bay

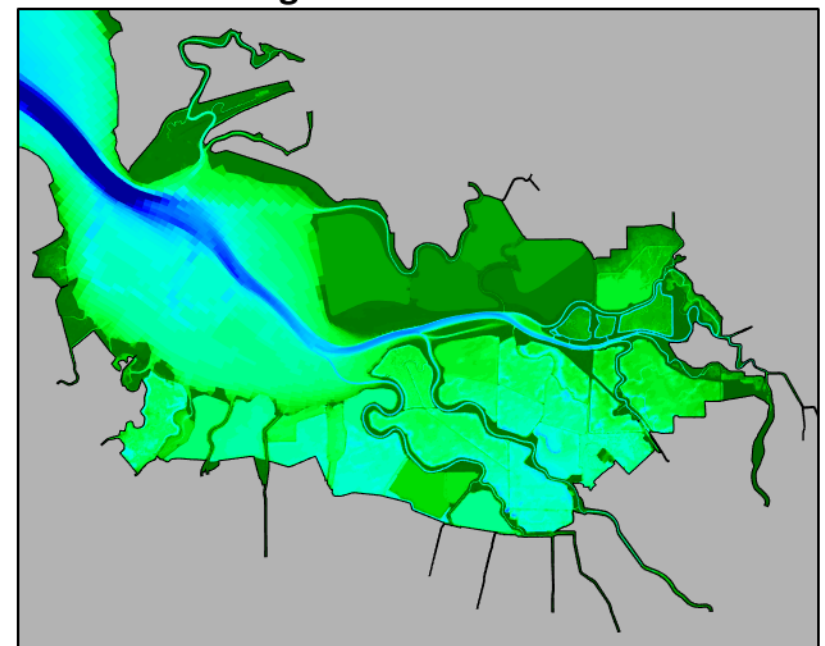
- Focus region refinement: South San Francisco Bay



Base Resolution Grid

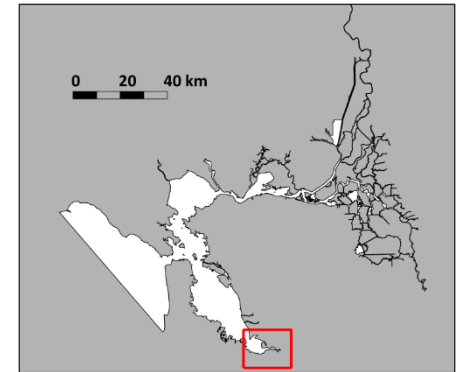


High Resolution Grid

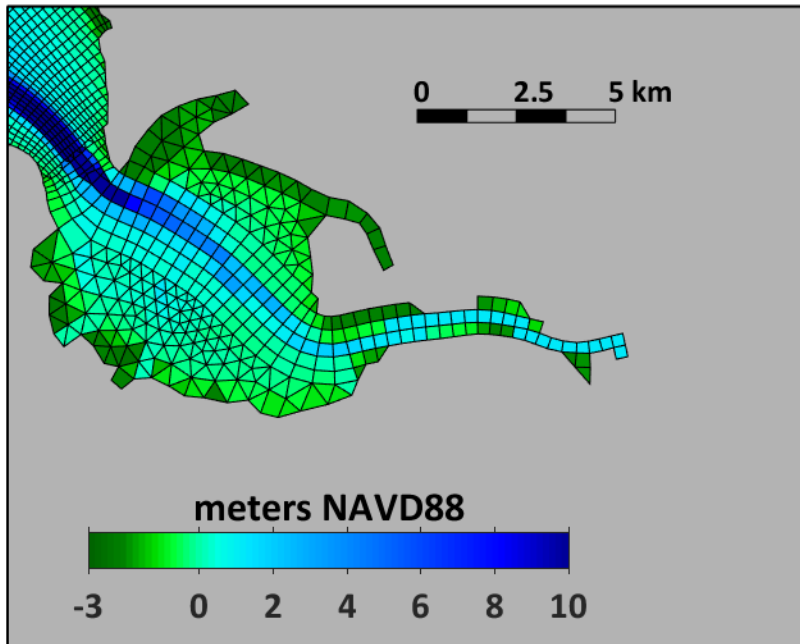


Model Upscaling From Tributaries to Entire Bay

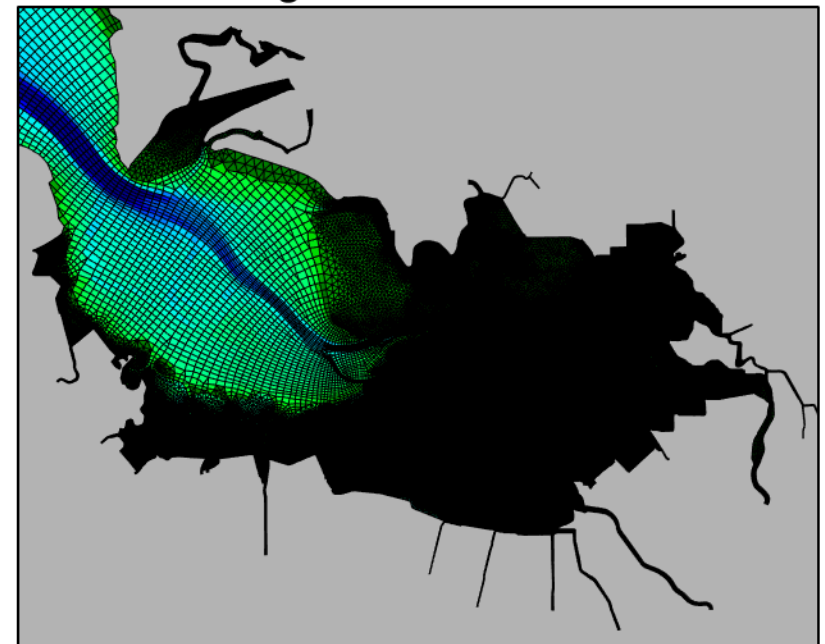
- Focus region refinement: South San Francisco Bay
- 500 versus 135,000 grid cells south of constriction



Base Resolution Grid

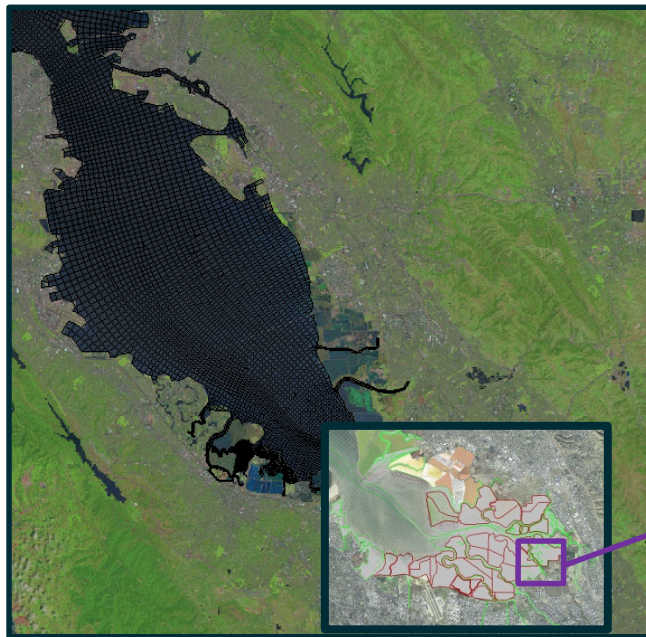


High Resolution Grid

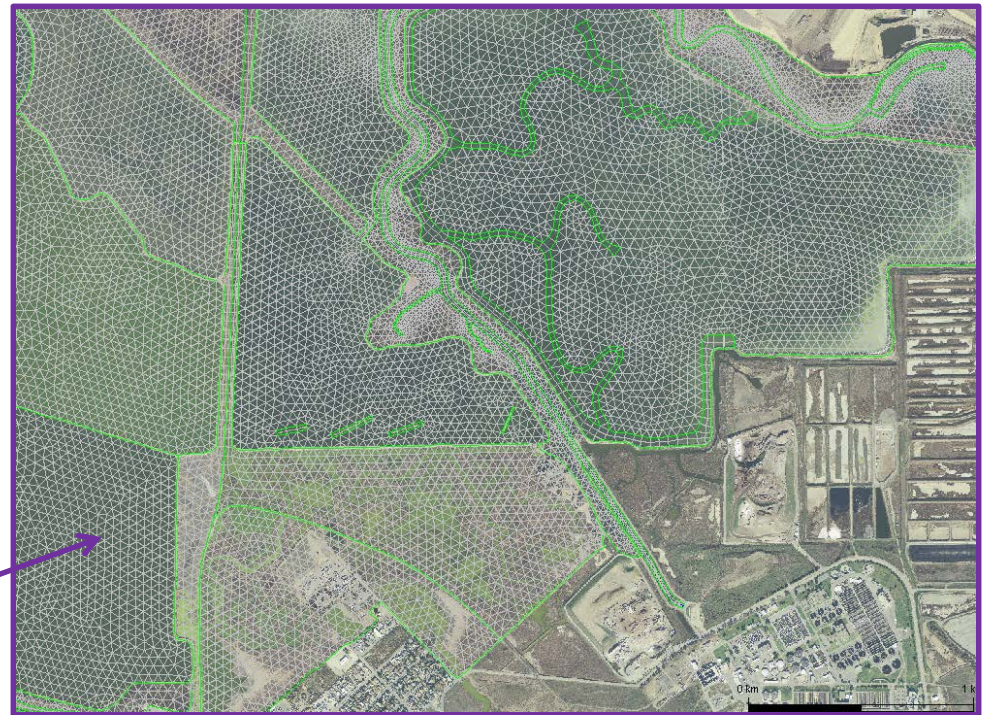


Model Upscaling From Tributaries to Entire Bay

- Focus region refinement: South San Francisco Bay
- 500 versus 135,000 grid cells south of constriction



Green are levee and channel alignments



Questions/Discussion
Aaron Bever: abever@anchorqea.com

