Overview of GenCade in SMS 11.1

Ashley Frey

GenCade Webinar

16-18 October 2012

ERDC

Engineer Research and Development Center

US Army Corps of Engineers ®

Overview of Presentation

- Introduction to GenCade in the SMS
  - Conceptual model
    - Set up shorelines, waves, and structures in real-world coordinates
  - GenCade model
    - All features are referenced to grid cell numbers
    - GenCade input files are created
    - Set up model control
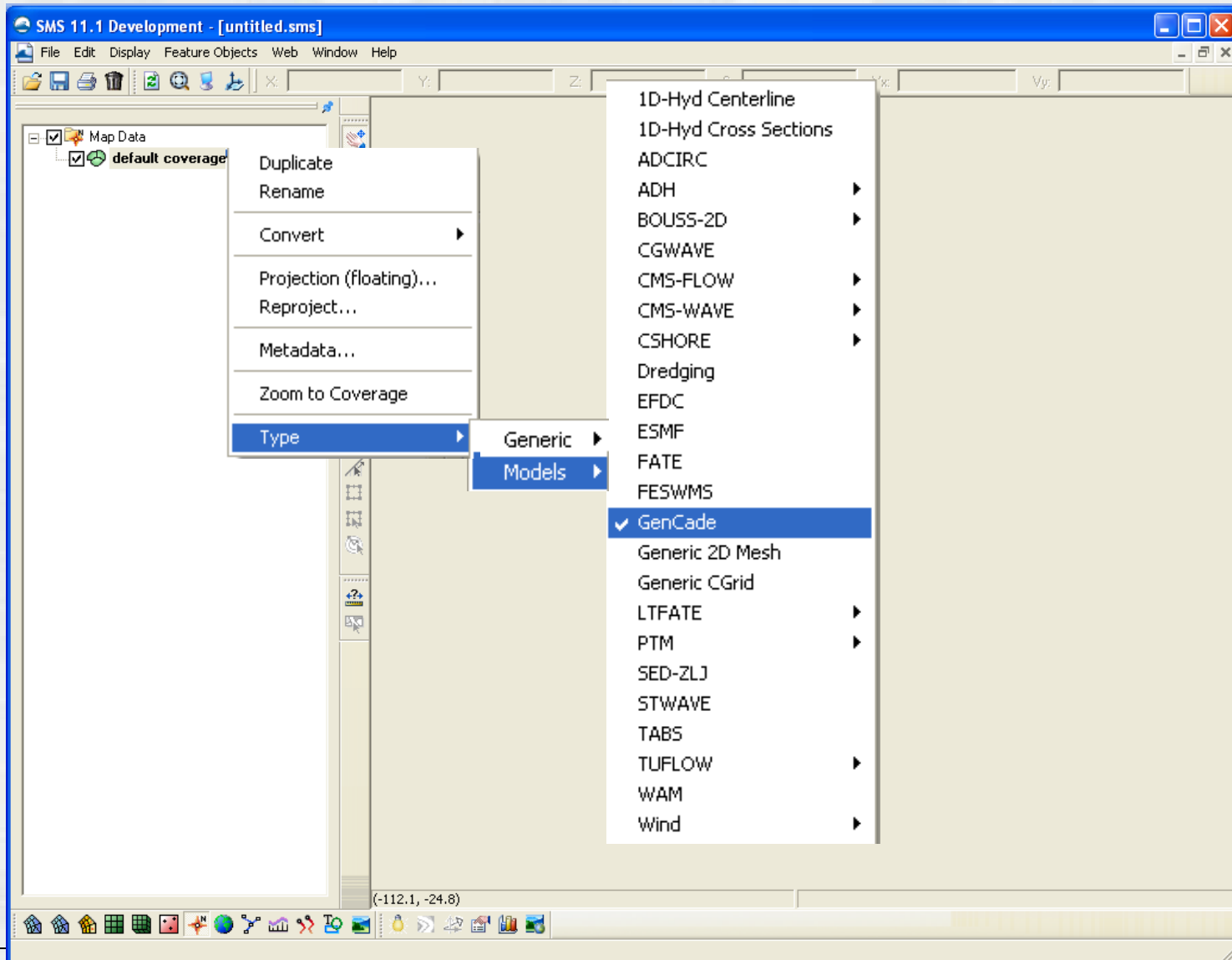   - Run GenCade
    - View results

Define as GenCade

BUILDING STRONG®

Innovative solutions for a safer, better world

Location of Executable
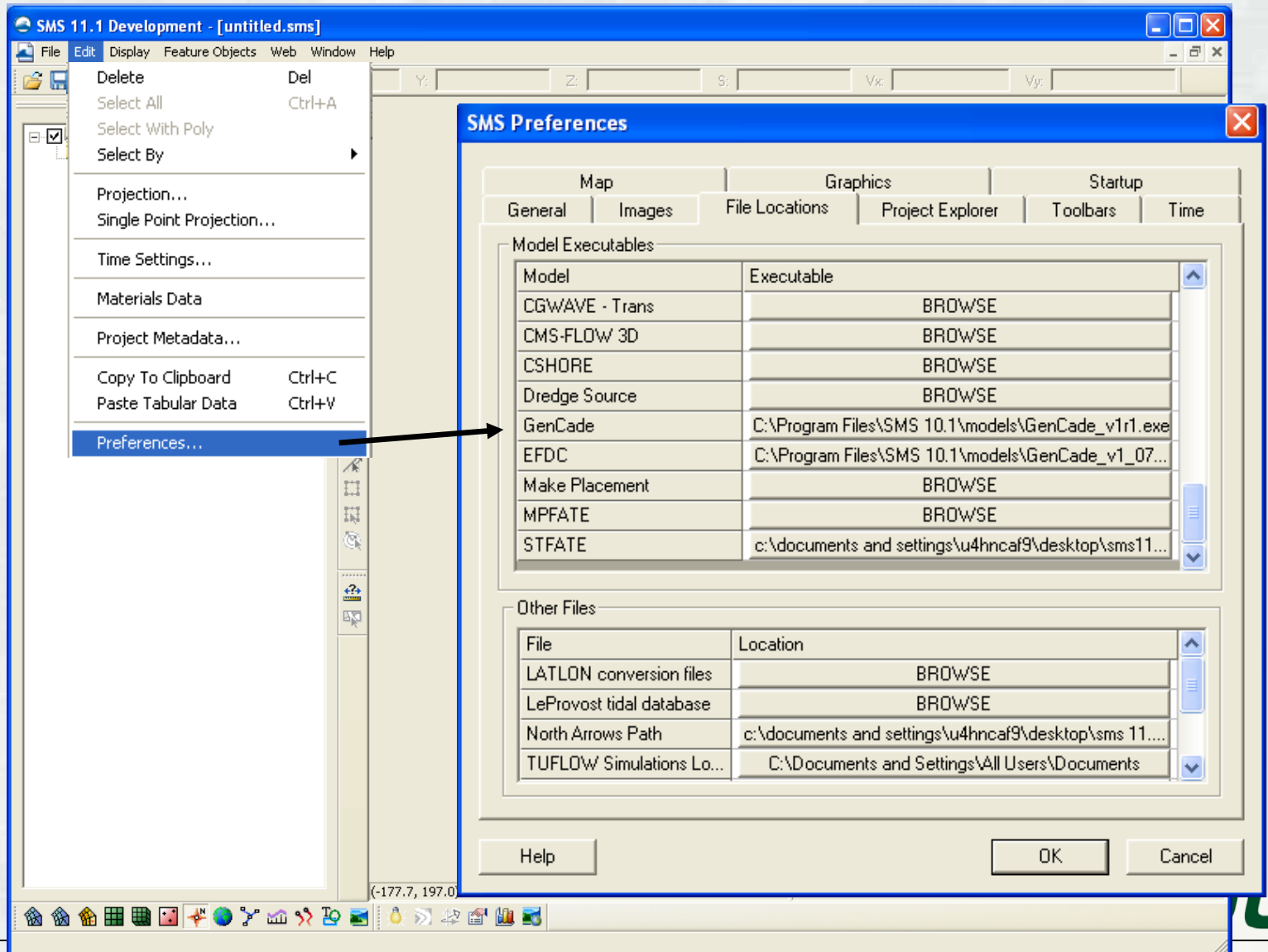
BUILDING STRONG®
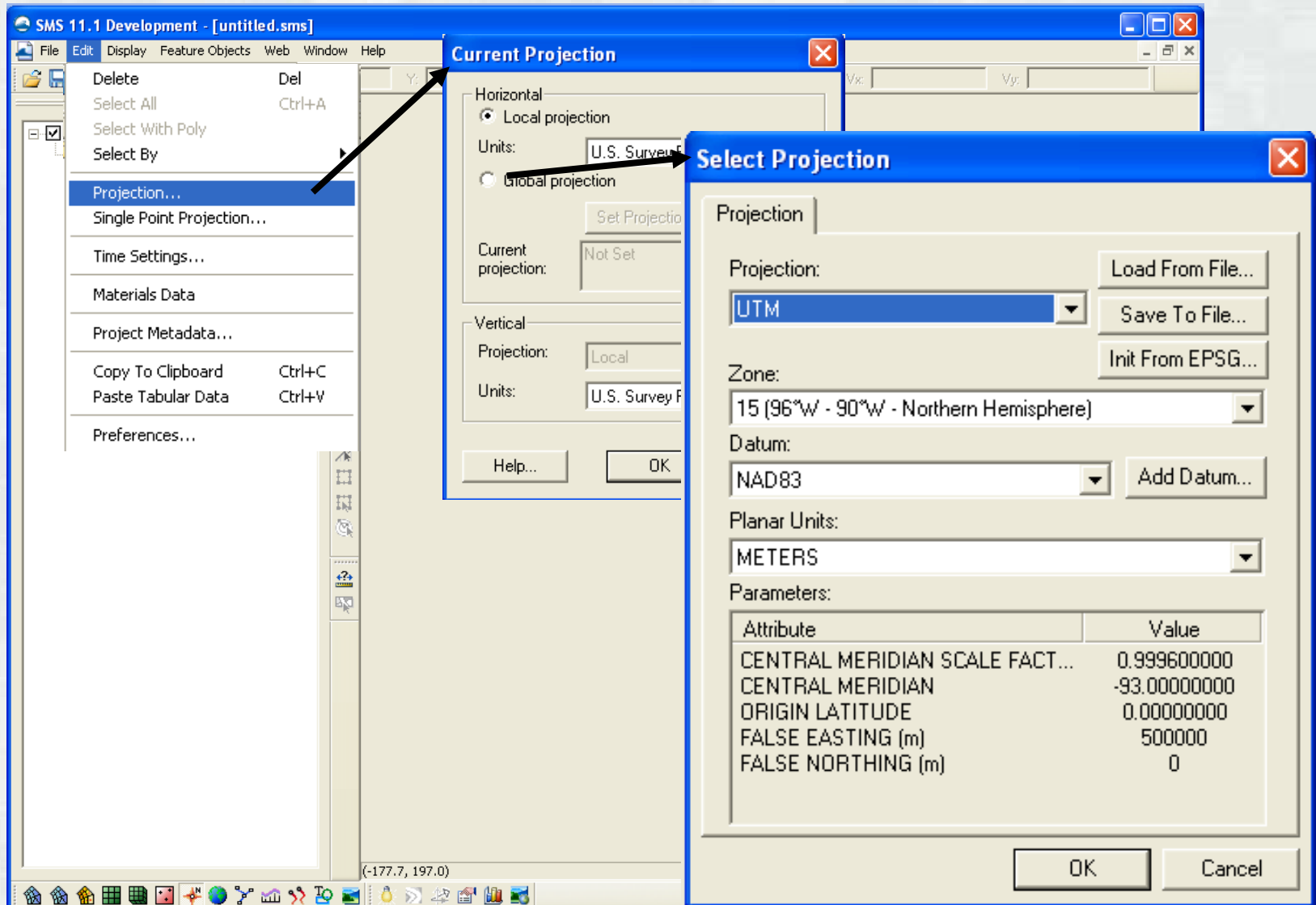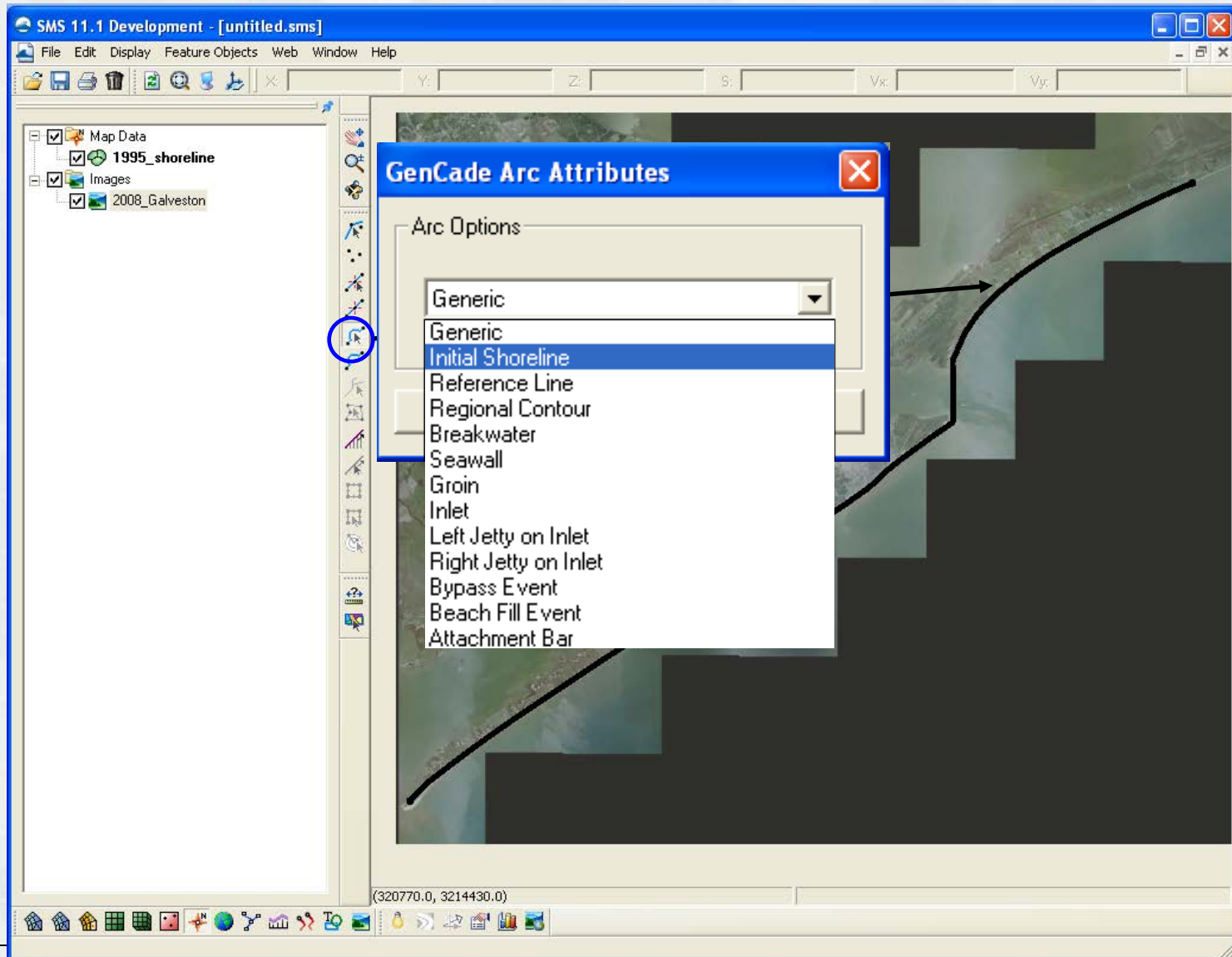
Innovative solutions for a safer, better world

Define Projection

Define Initial Shoreline

Add New Coverage
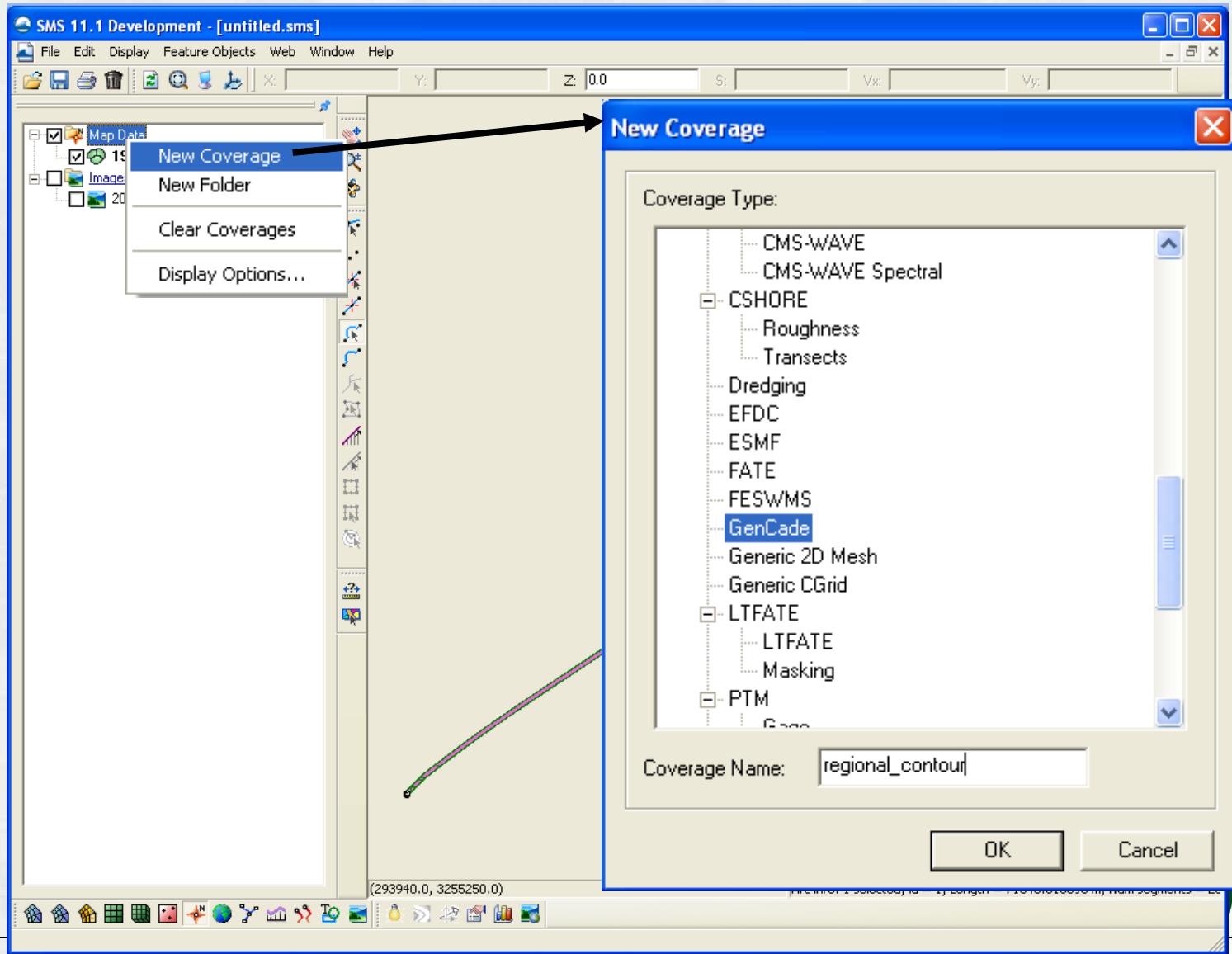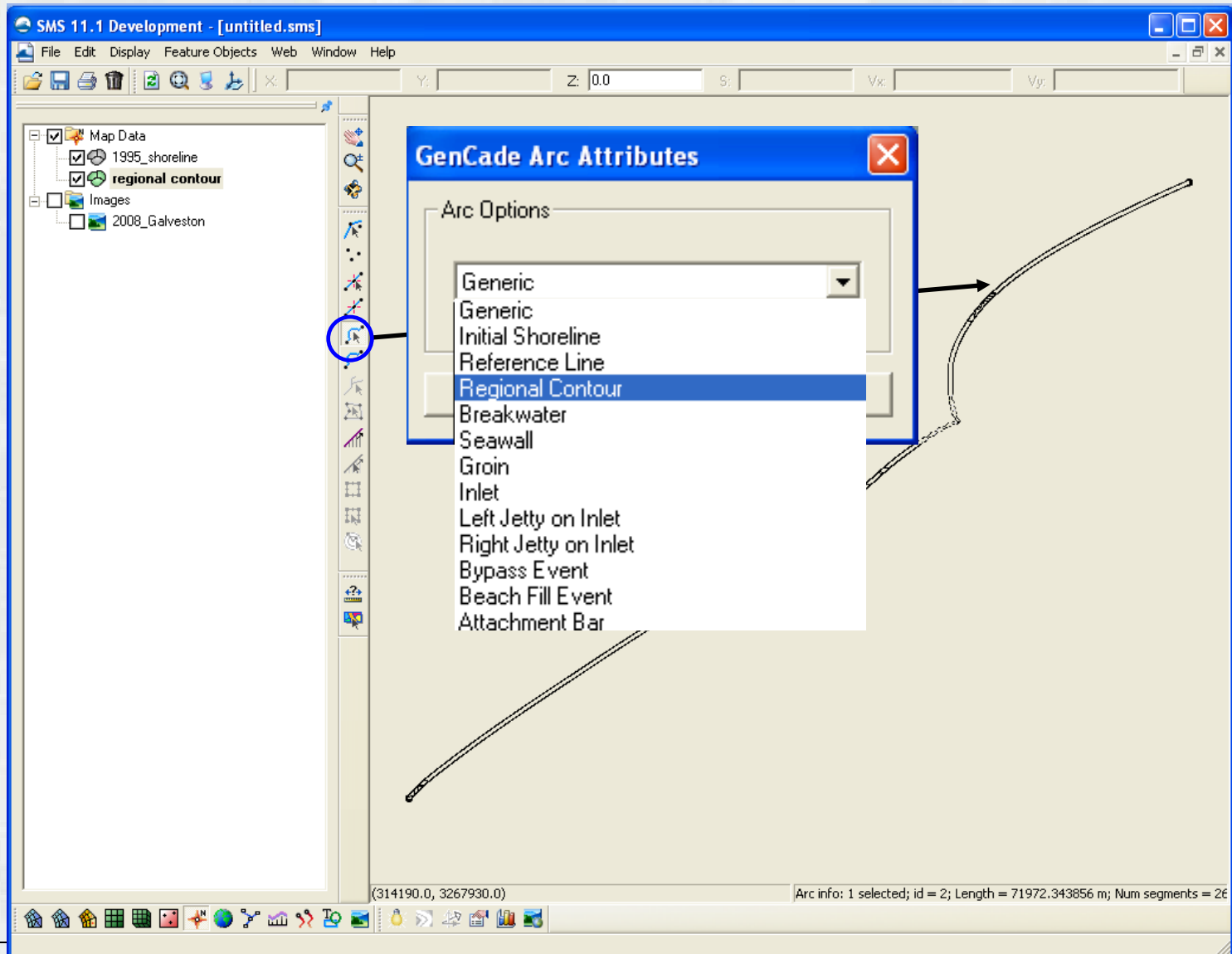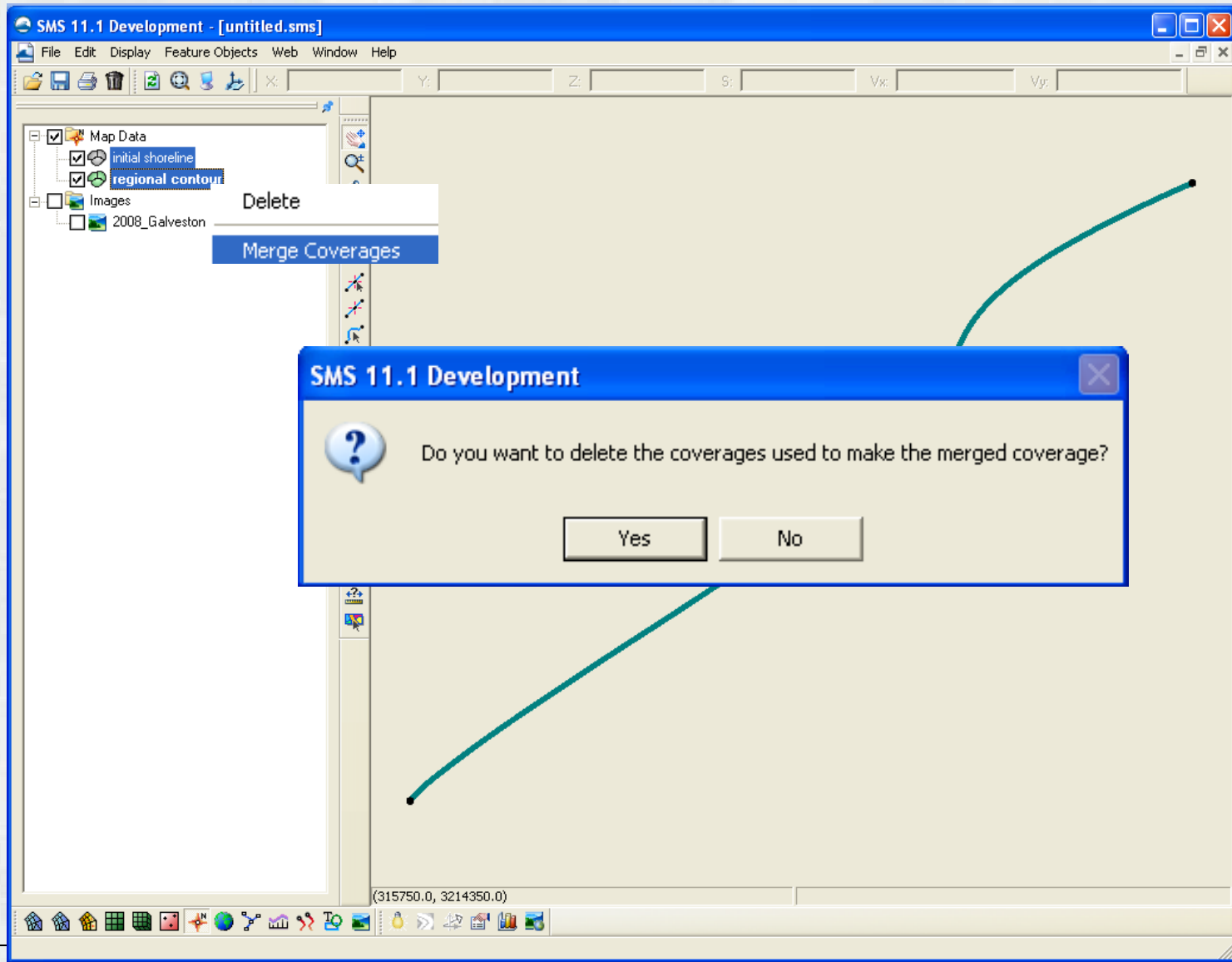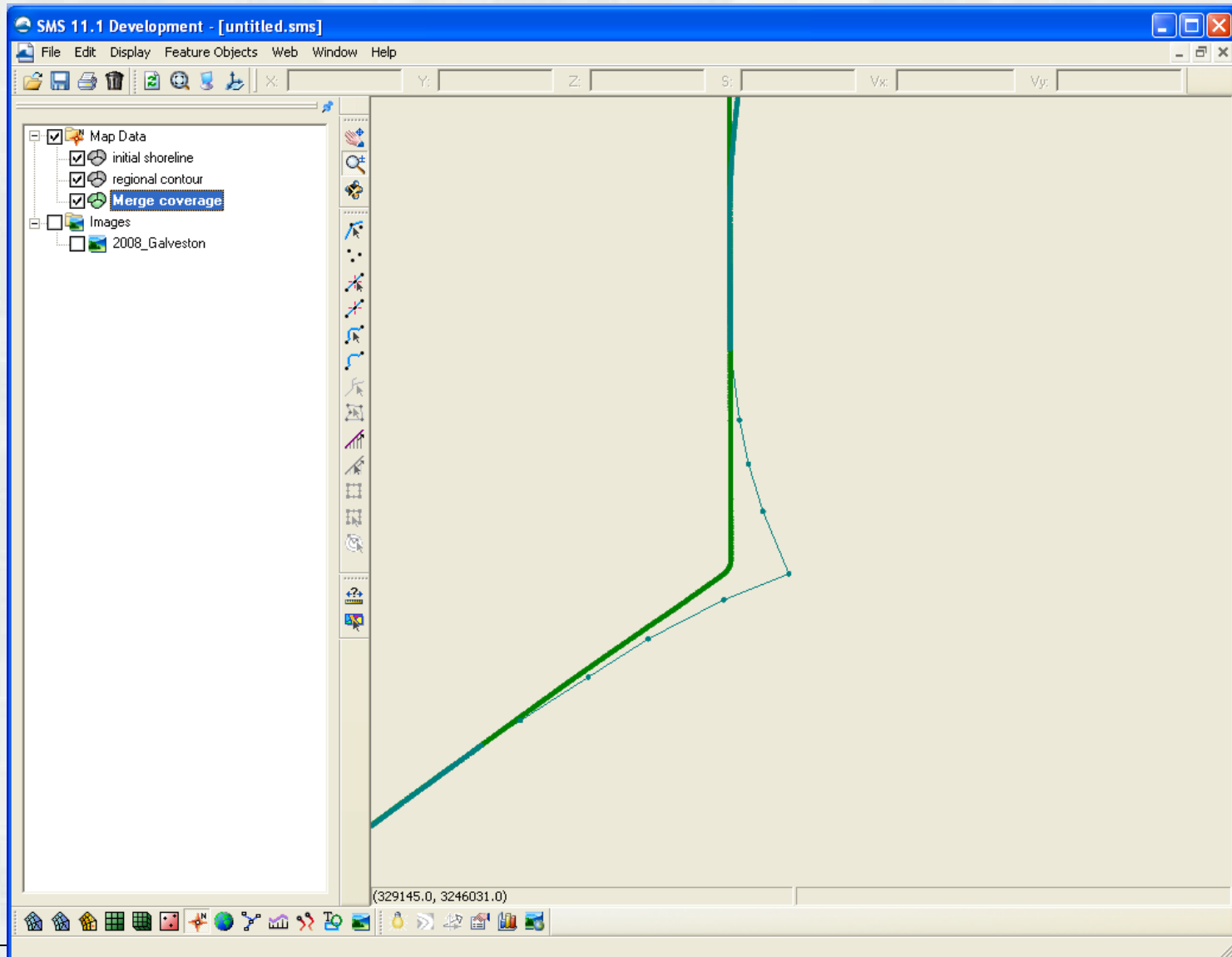
Define Regional Contour

BUILDING STRONG®

Innovative solutions for a safer, better world

Merge Coverages

BUILDING STRONG®

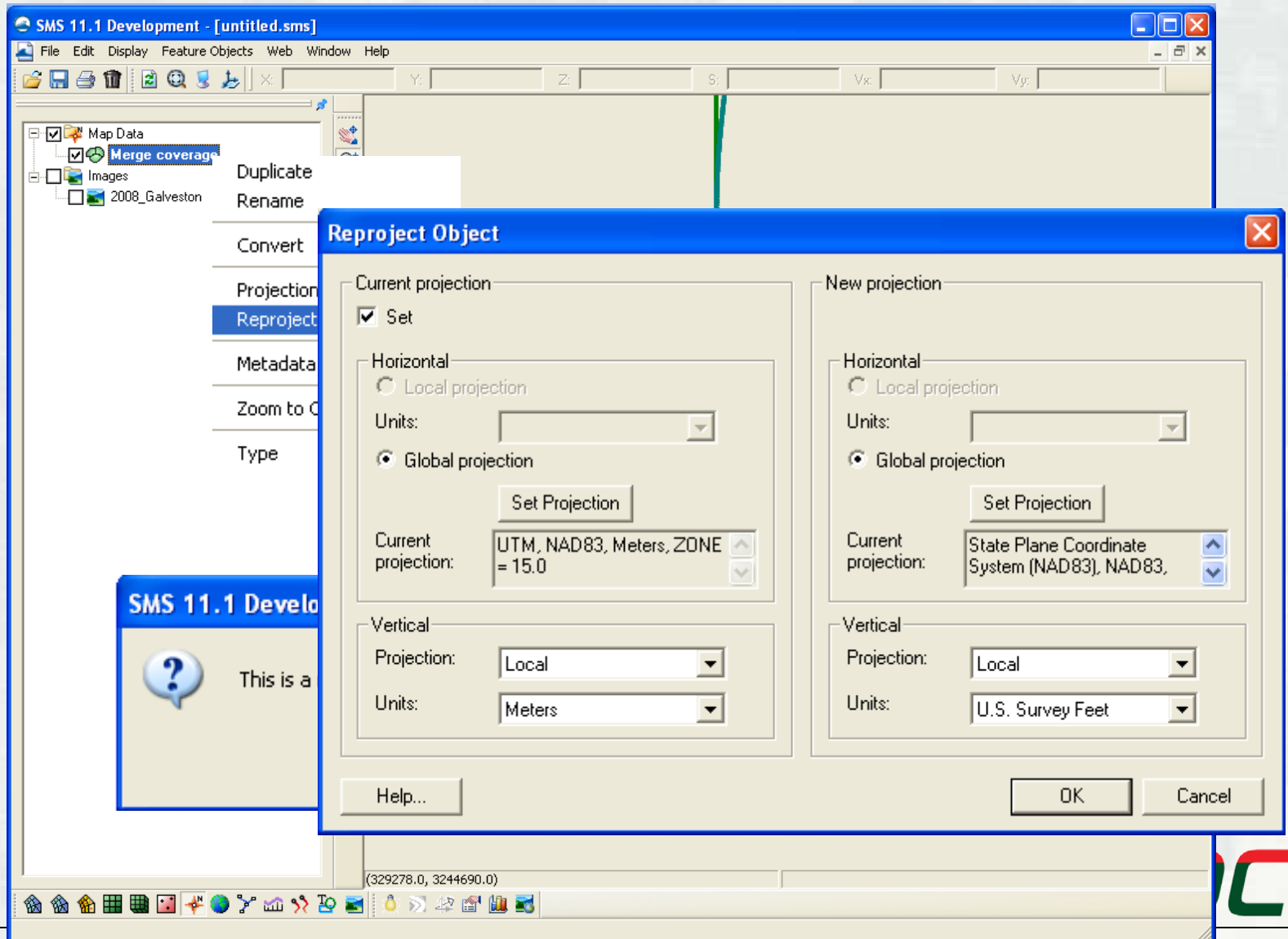*Innovative solutions for a safer, better world*

Merged Coverages

BUILDING STRONG®

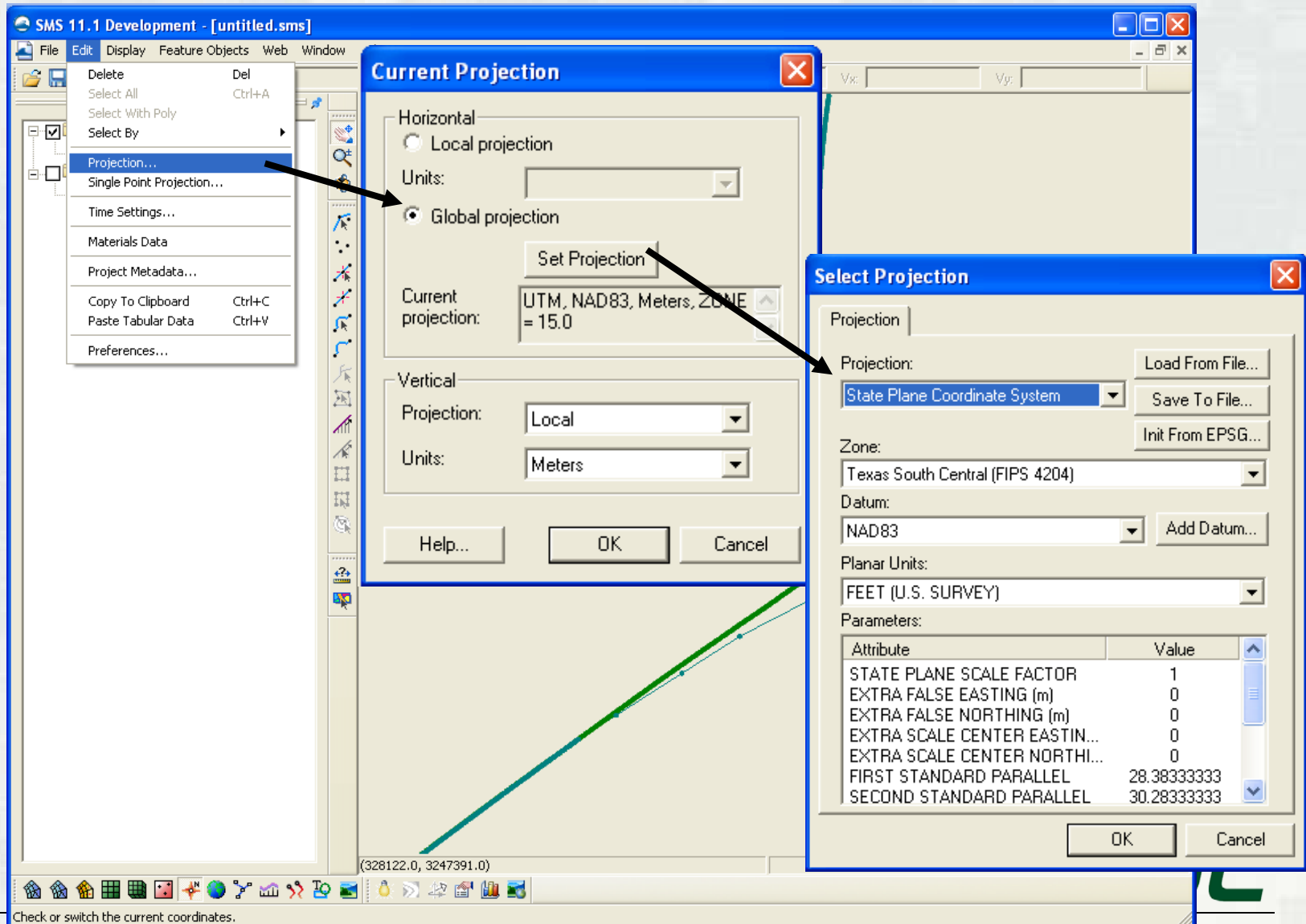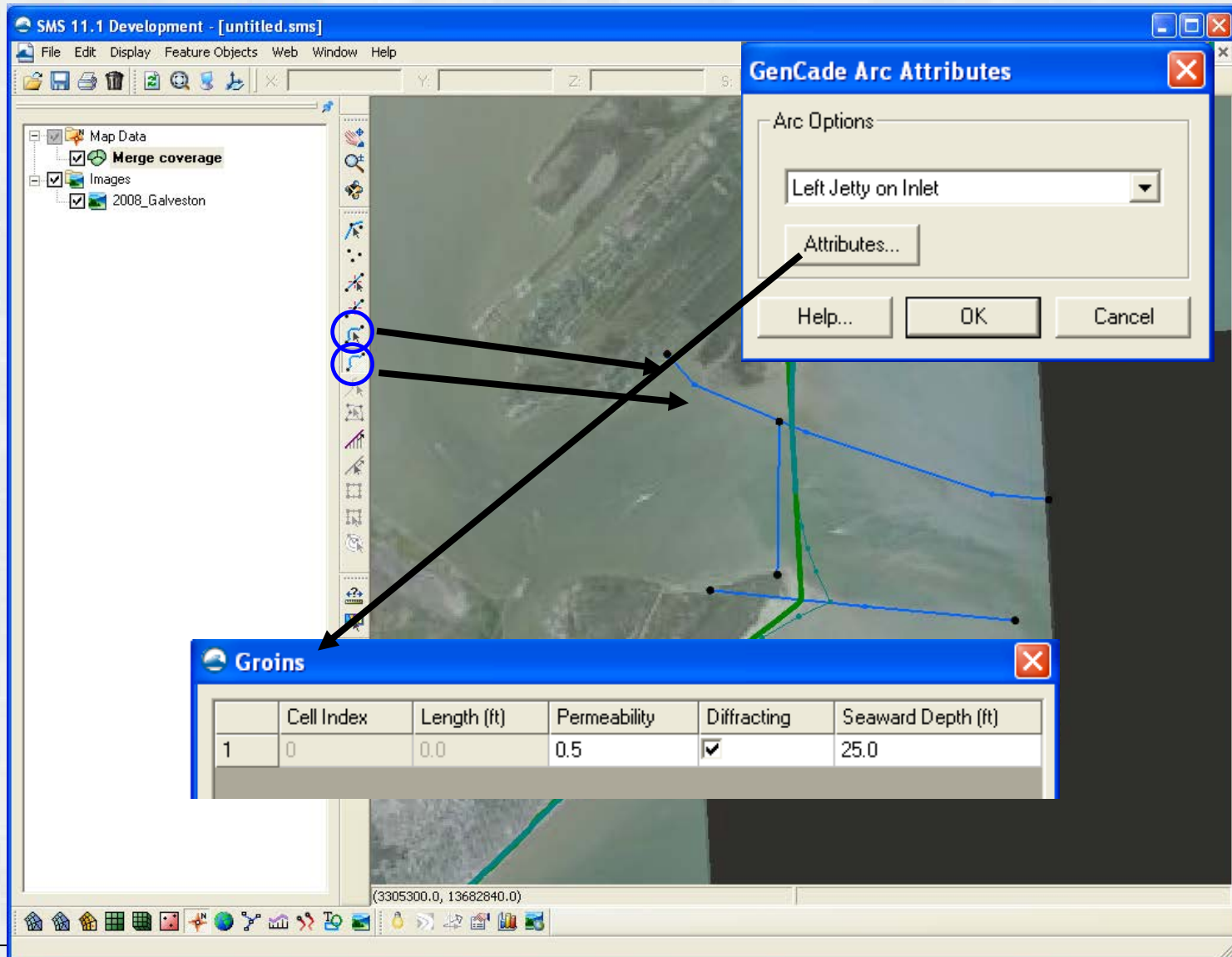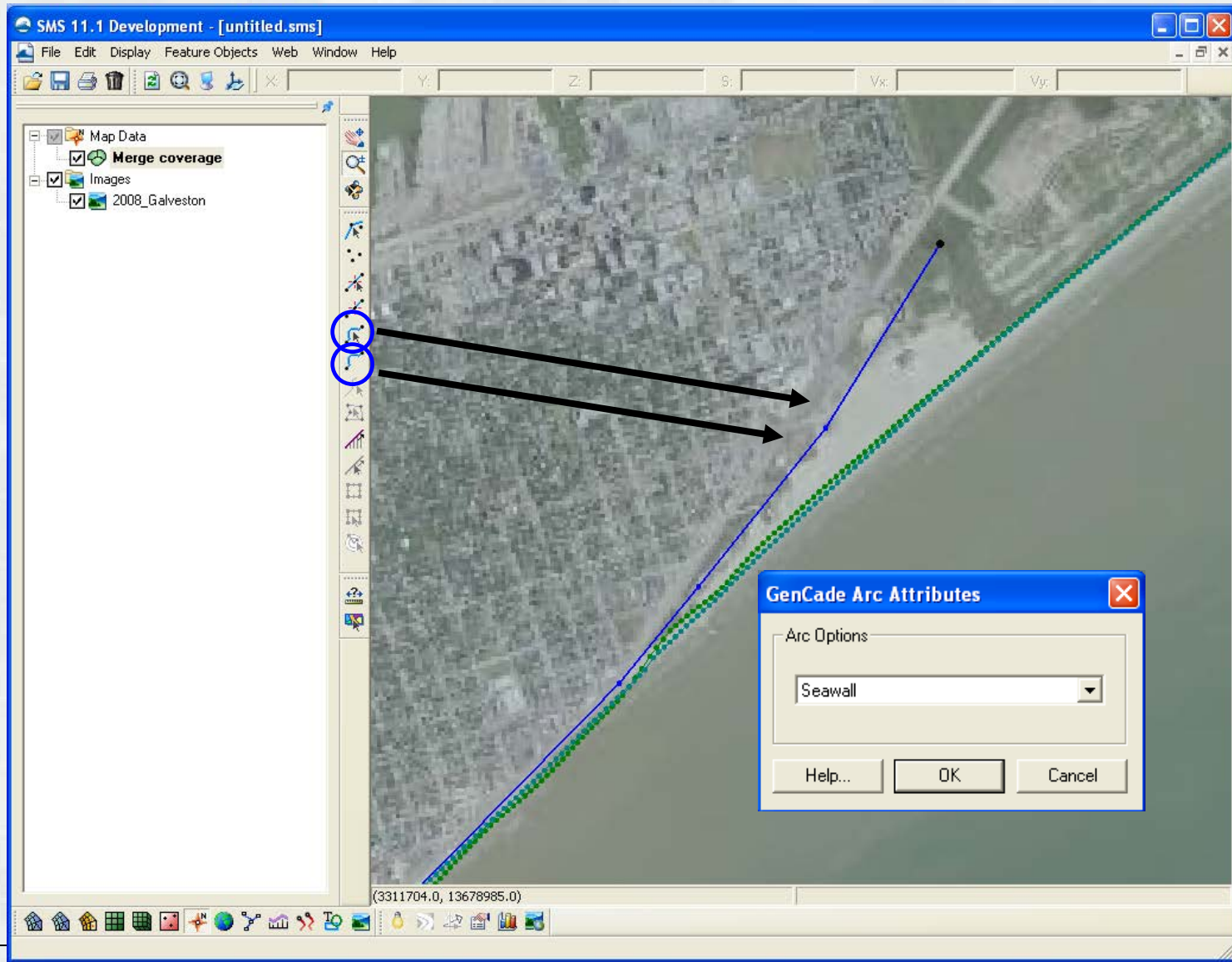*Innovative solutions for a safer, better world*

Convert to New Projection

BUILDING STRONG®   *Innovative solutions for a safer, better world*

Convert to New Projection

BUILDING STRONG®

Innovative solutions for a safer, better world

Inlets

Jesties

Seawall

Groins

Innovative solutions for a safer, better world
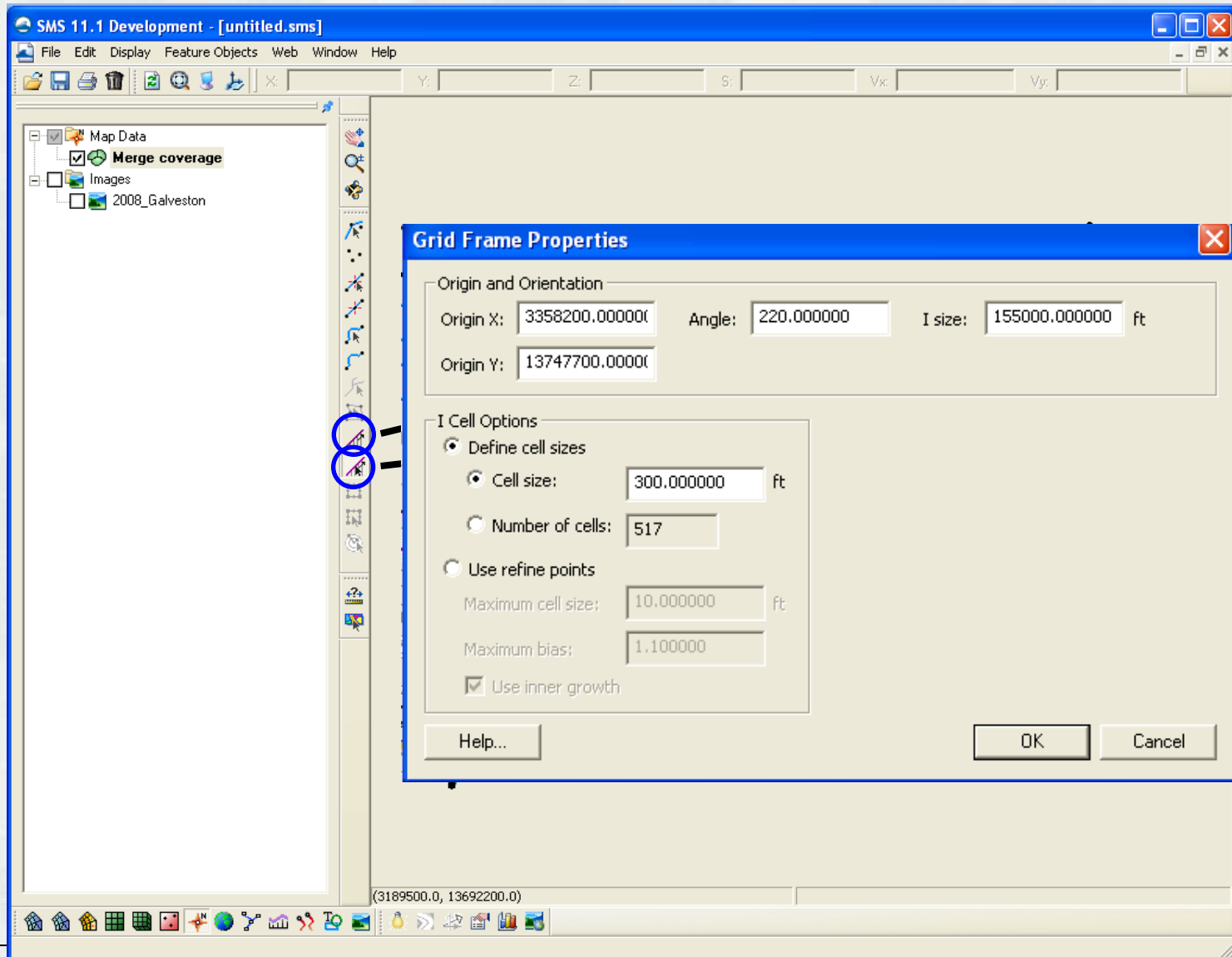
Beach Fill

Detached Breakwater

BUILDING STRONG®

Innovative solutions for a safer, better world

Grid Setup

BUILDING STRONG®

Innovative solutions for a safer, better world

Wave Gauges

BUILDING STRONG®

Convert to 1D Grid

BUILDING STRONG®

Innovative solutions for a safer, better world

GenCade Model

GenCade Model

BUILDING STRONG®

Innovative solutions for a safer, better world

GenCade Model Control

BUILDING STRONG®

Innovative solutions for a safer, better world
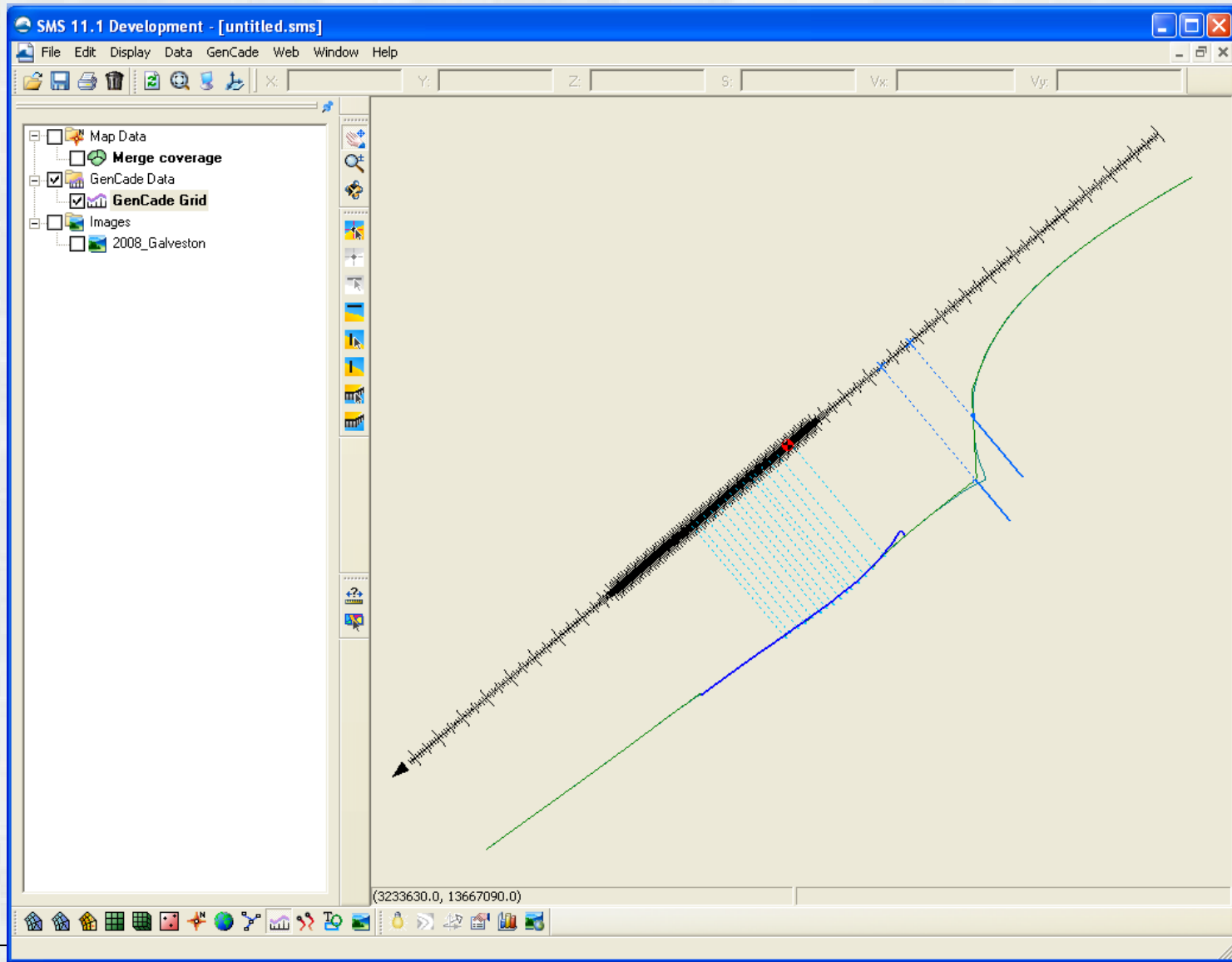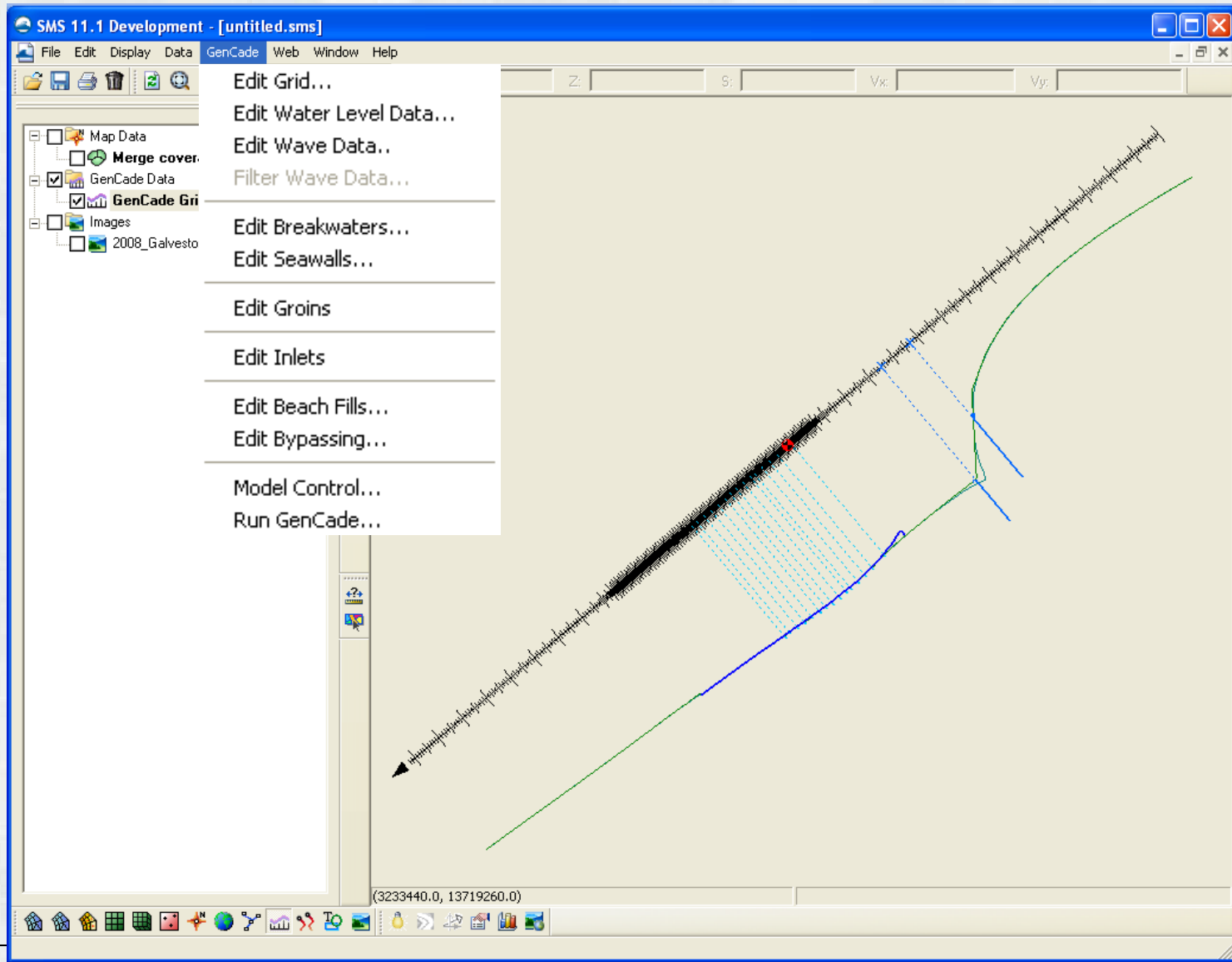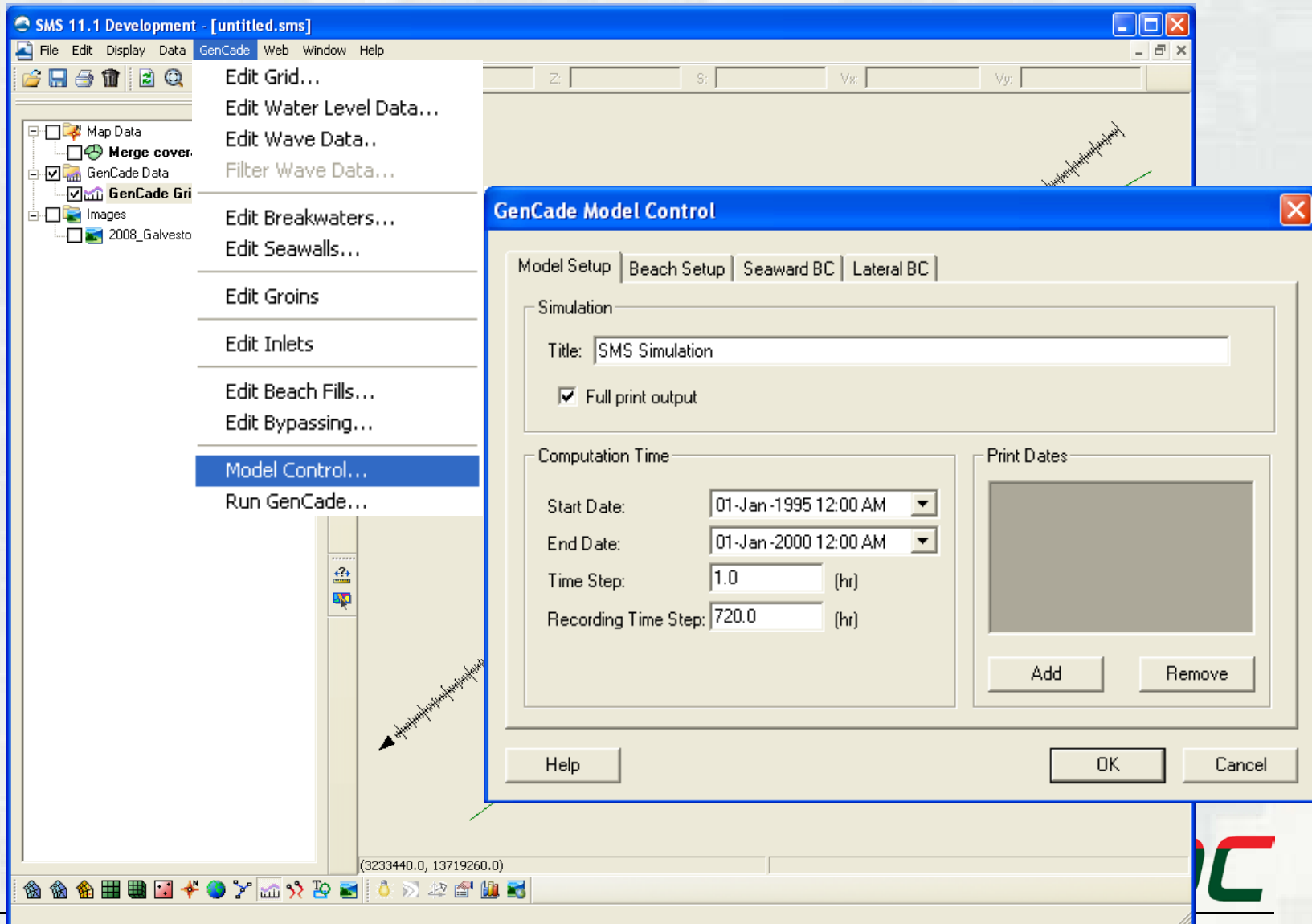
GenCade Model Control

BUILDING STRONG®

Innovative solutions for a safer, better world

GenCade Model Control

BUILDING STRONG®

Innovative solutions for a safer, better world

GenCade Model Control

BUILDING STRONG®

Innovative solutions for a safer, better world
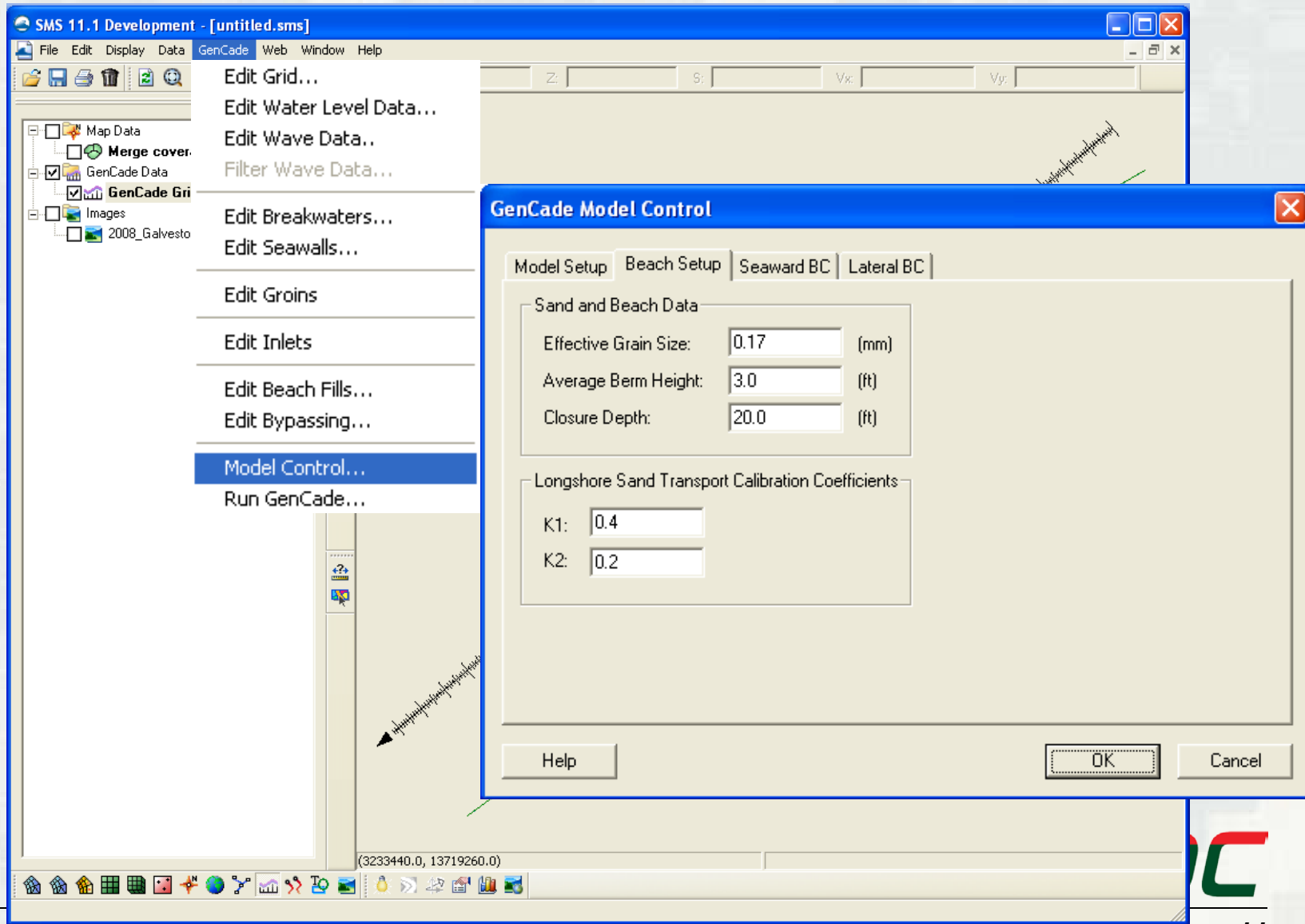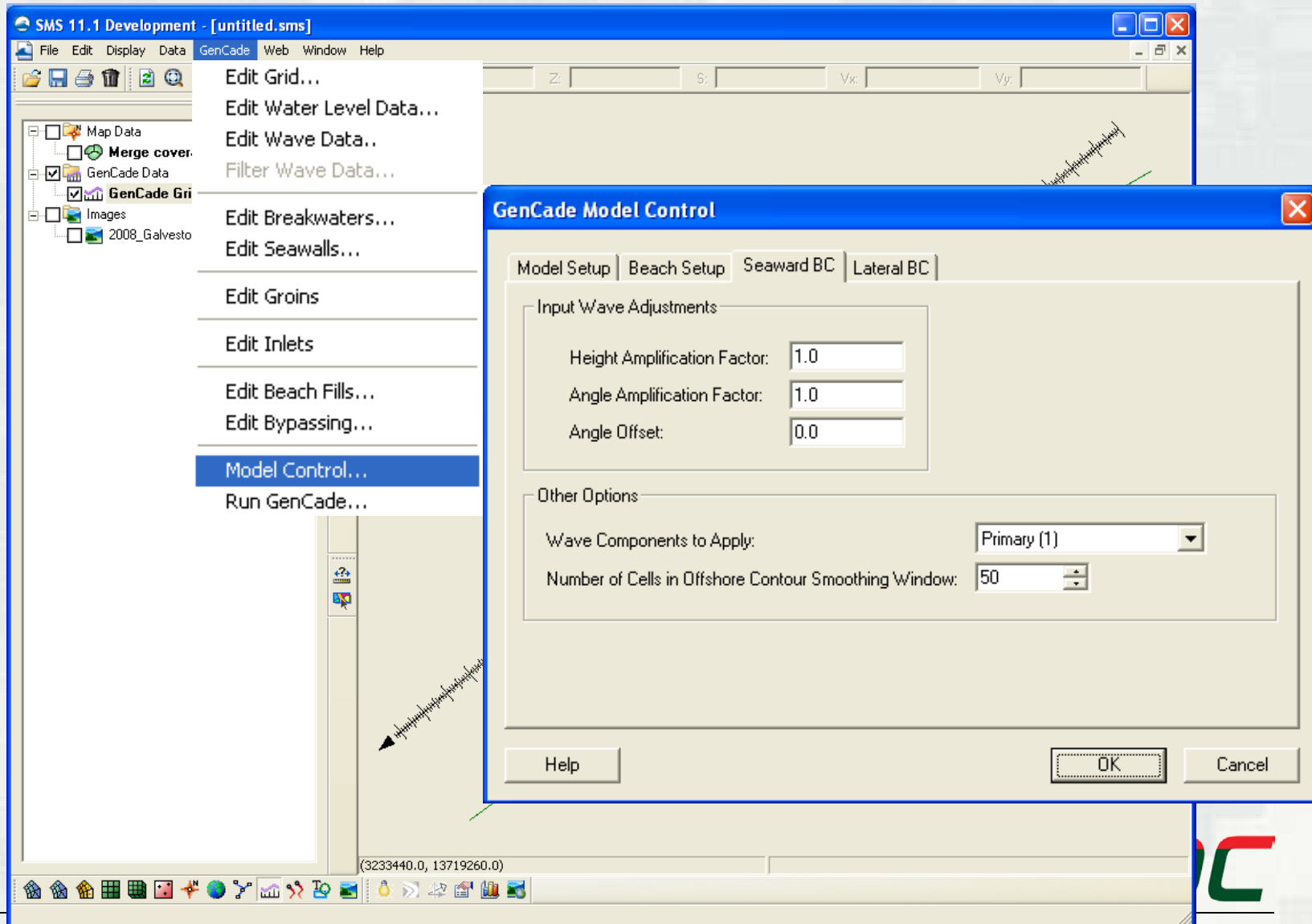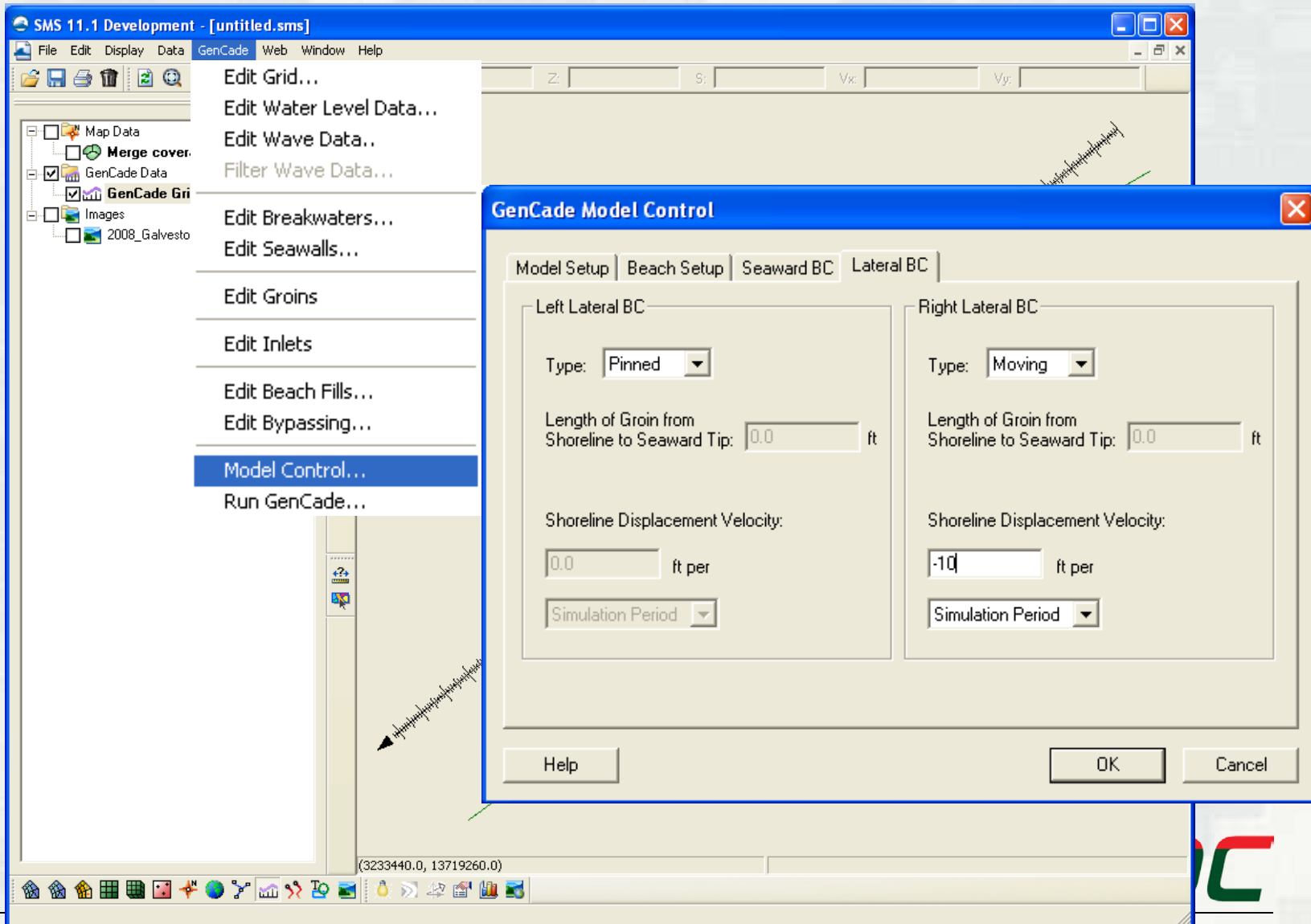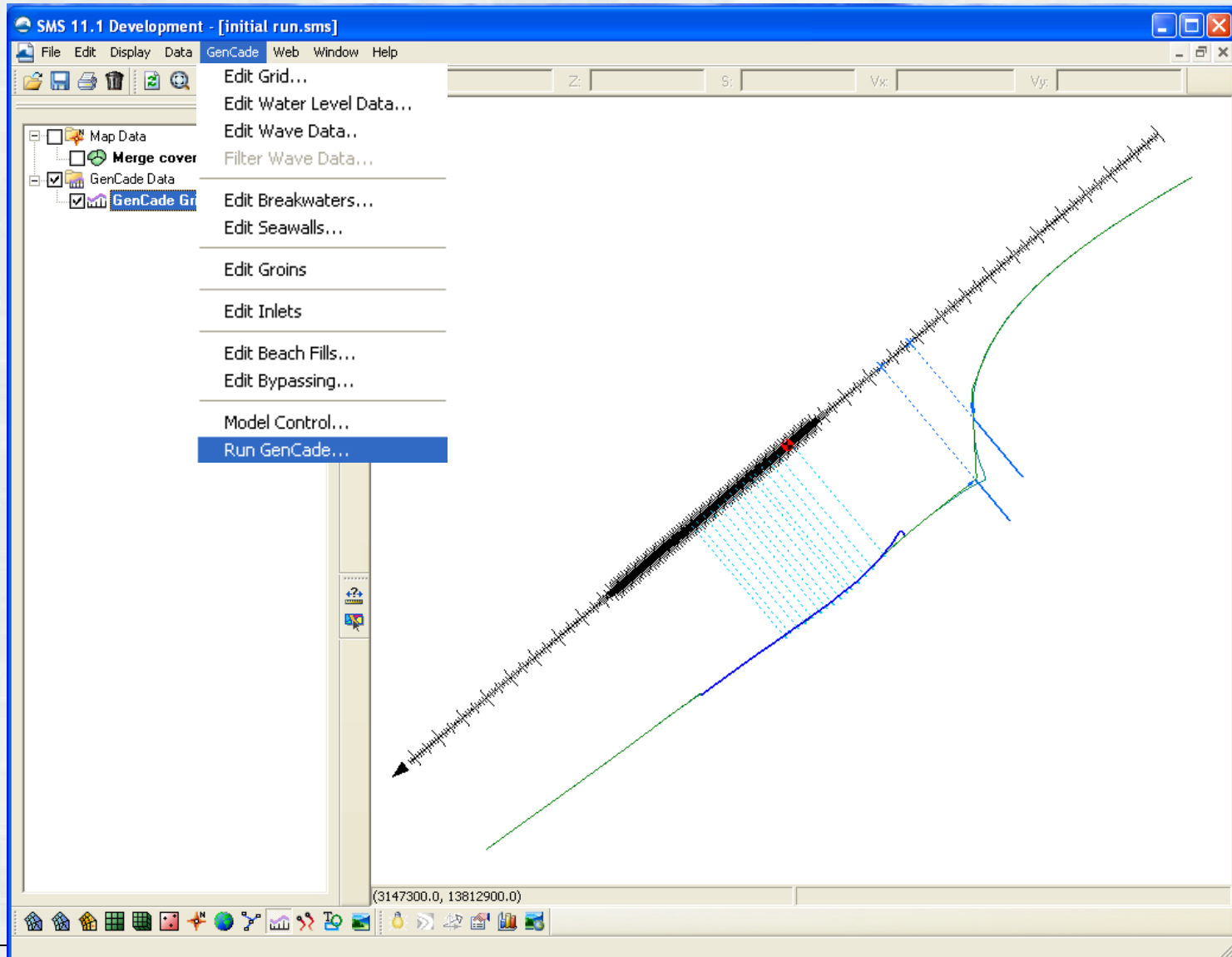
Run GenCade

GenCade Results
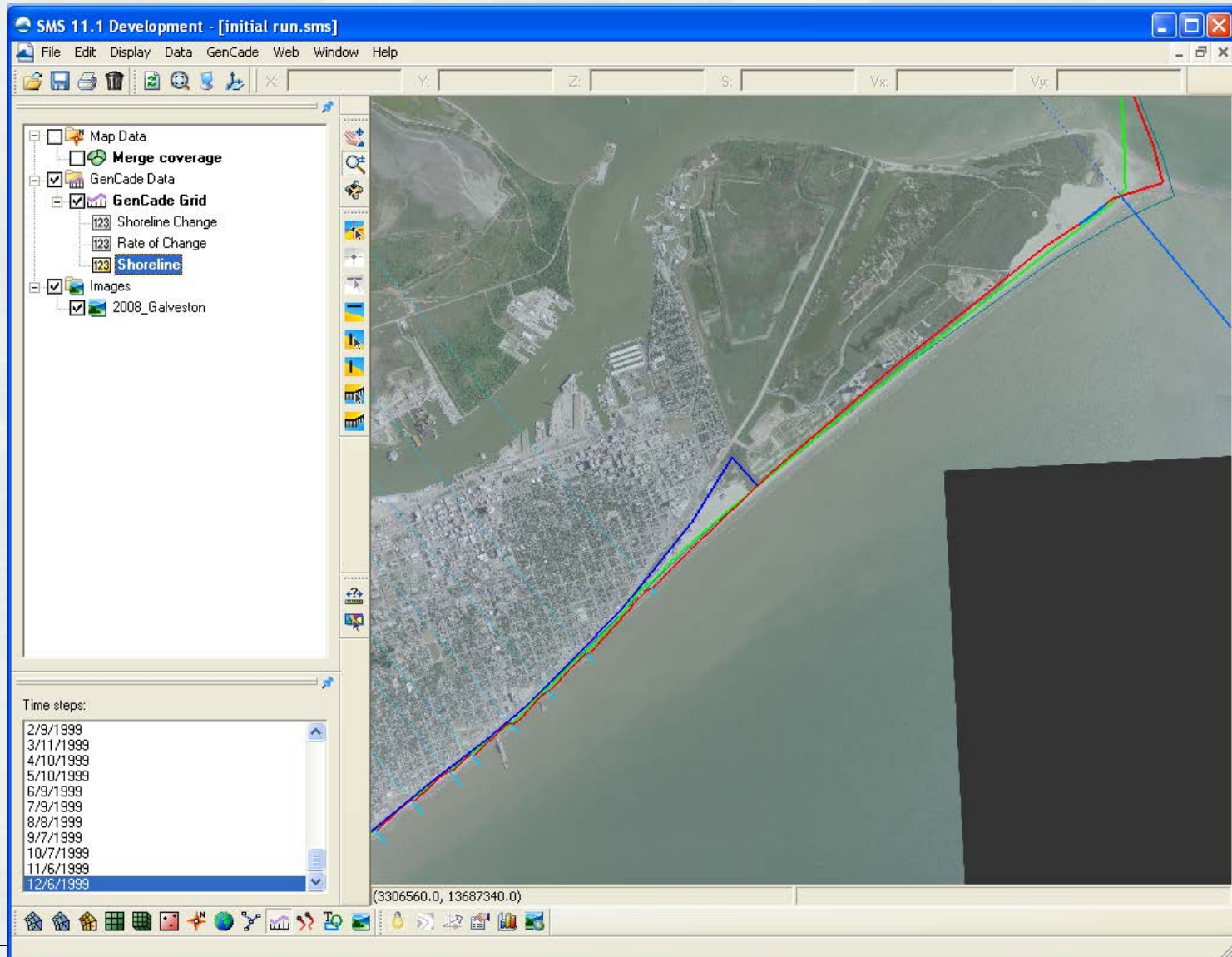
GenCade Results

BUILDING STRONG®

Innovative solutions for a safer, better world

GenCade Results

BUILDING STRONG®

Innovative solutions for a safer, better world

GenCade Results

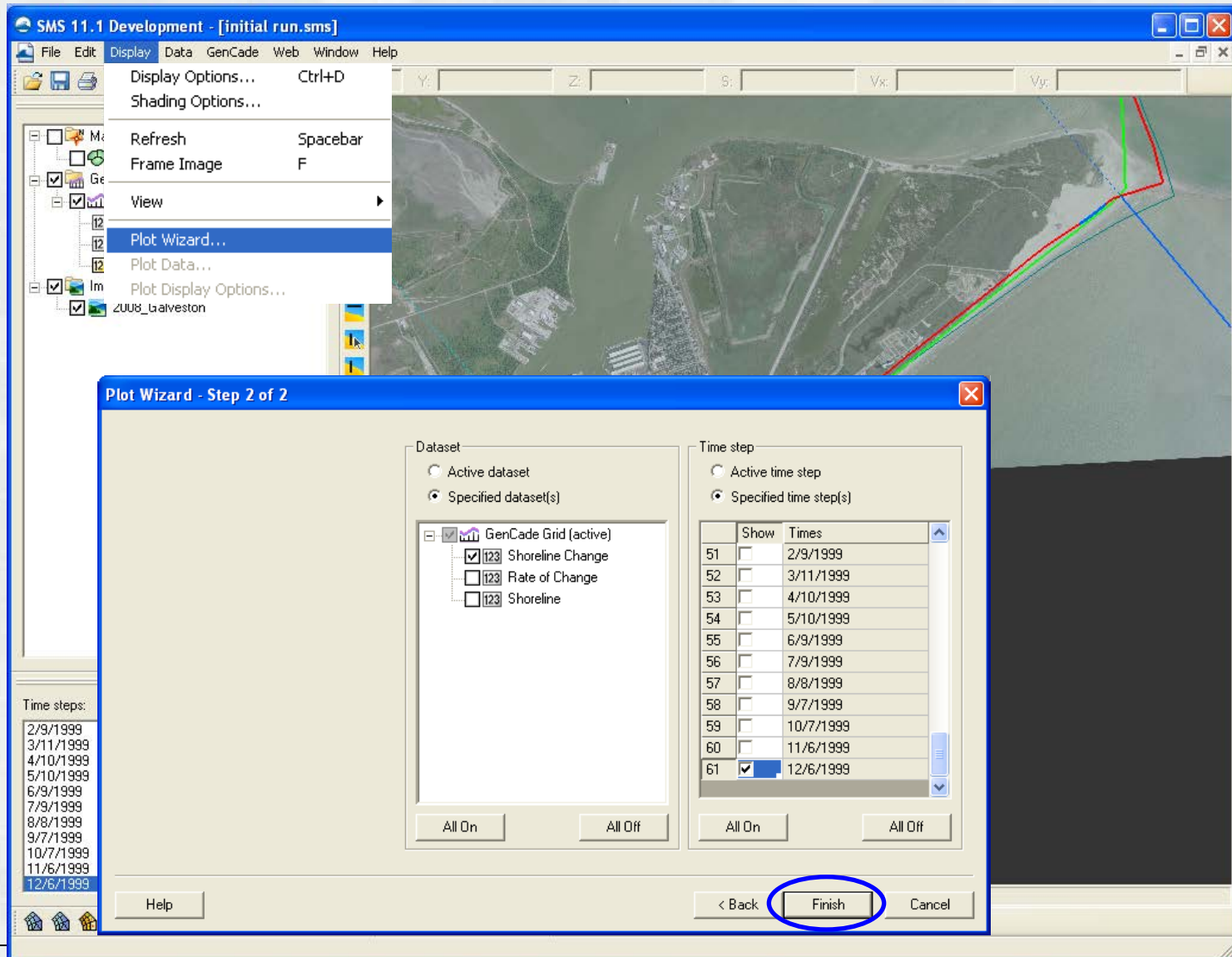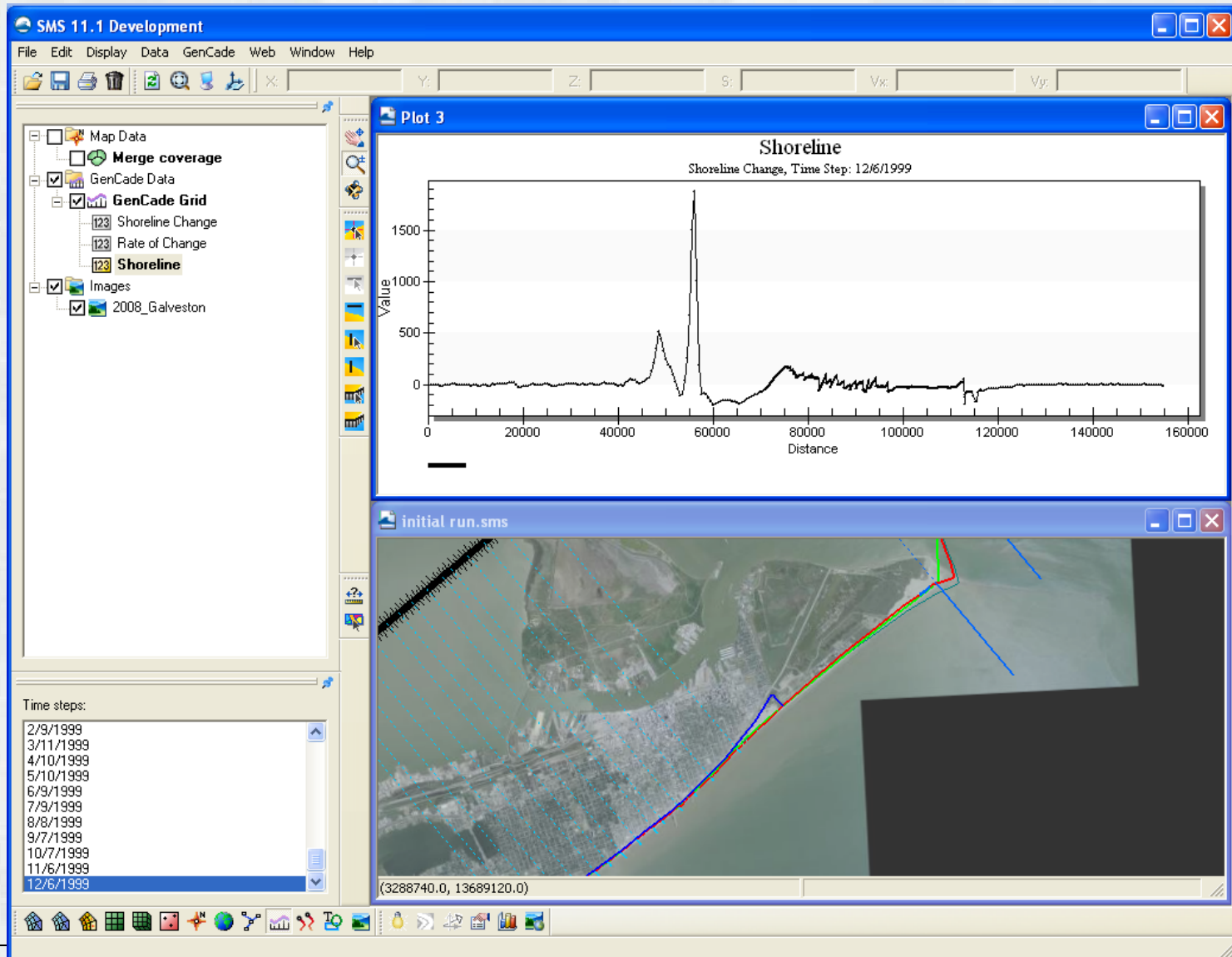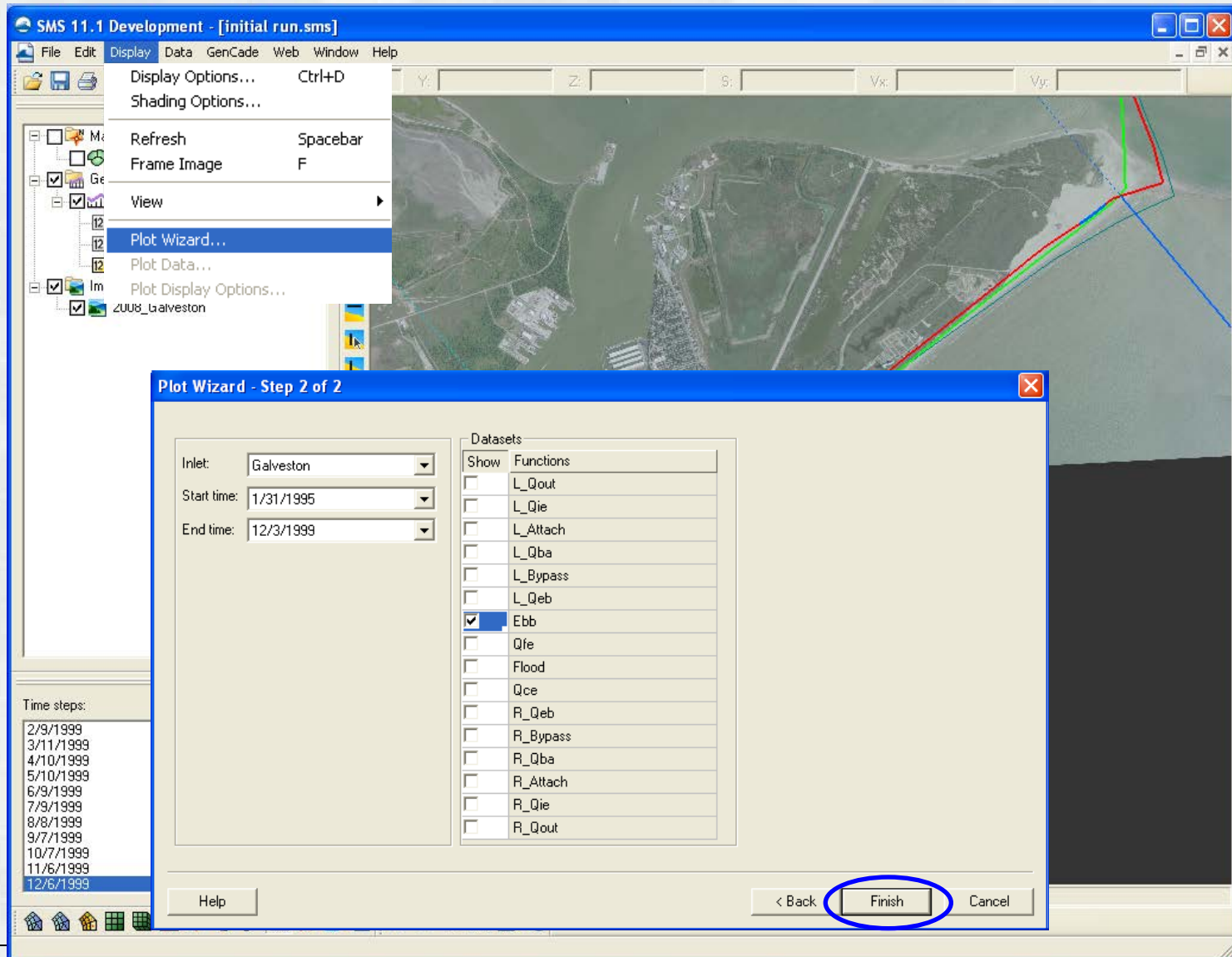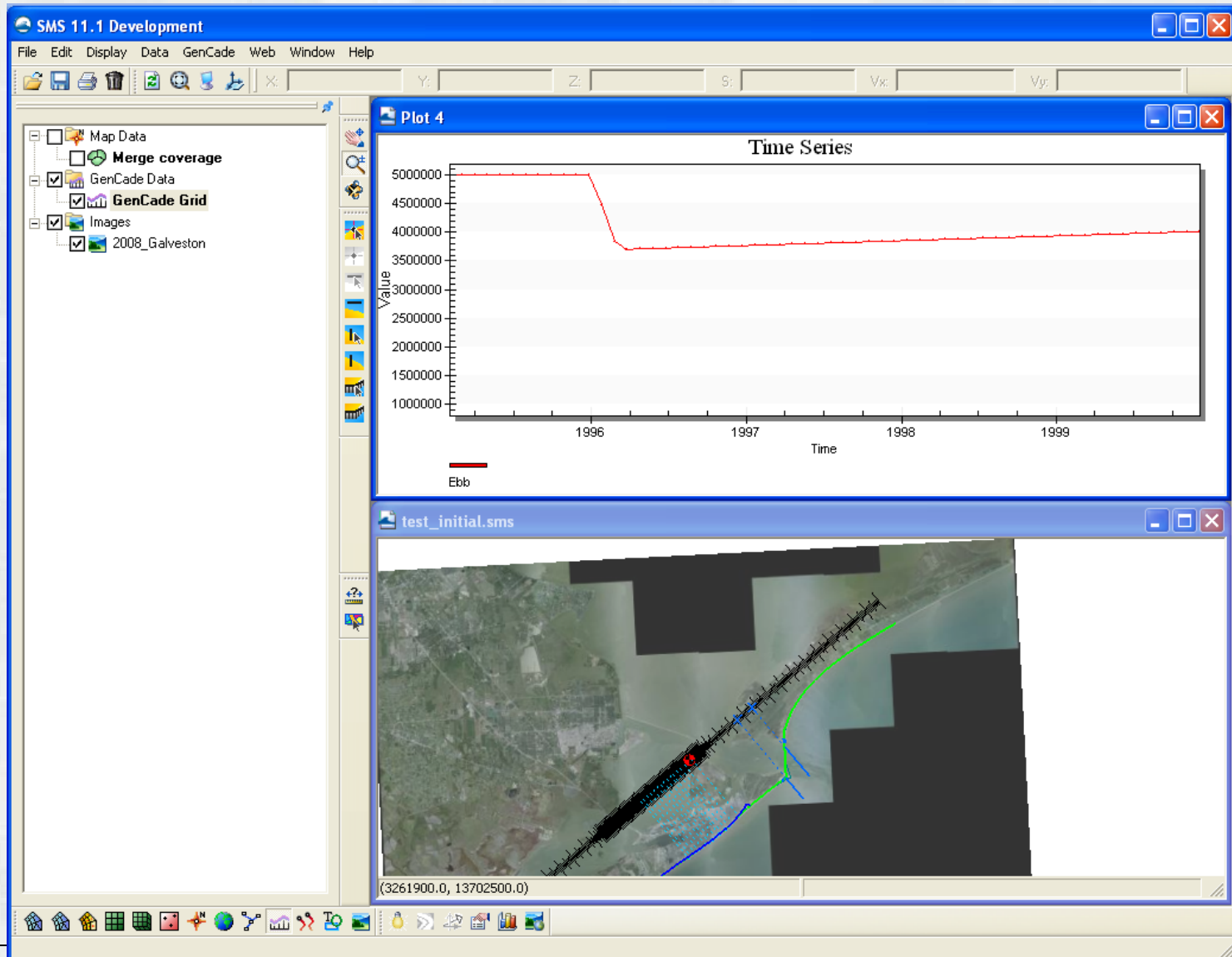**BUILDING STRONG**®   *Innovative solutions for a safer, better world*

GenCade Results

BUILDING STRONG®

Innovative solutions for a safer, better world