

Future Capabilities of GenCade

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FY13 Activities

CMS-Wave

Wind input, wave generation & growth, wave transformation, diffraction, reflection, run-up, setup, overtopping, structures, surface roller



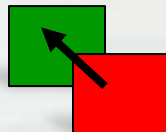
GenCade

Option for GenCade to accept forcing from an external wave model

GenCade

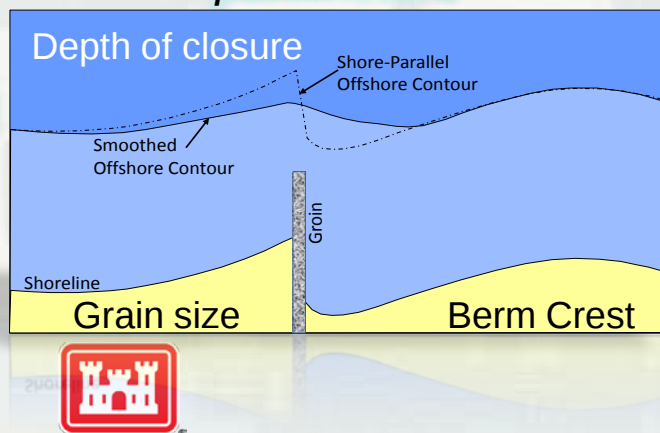


SBAS Arc10

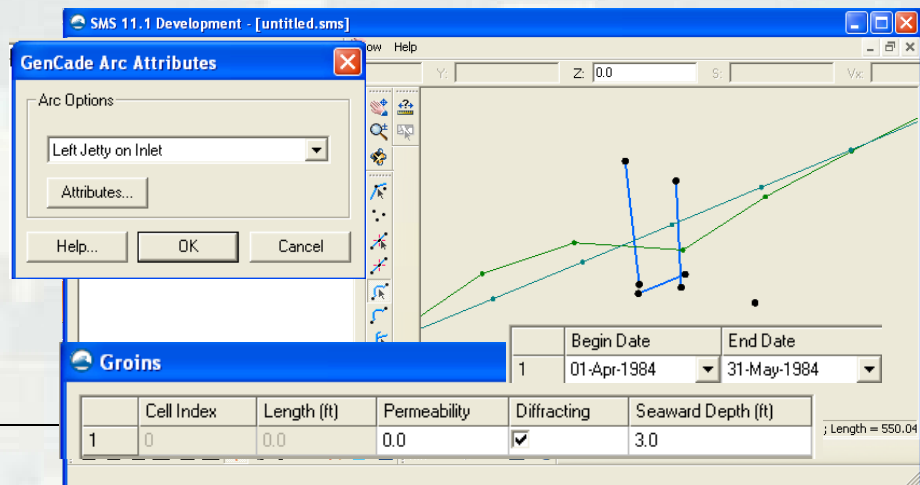


GenCade output used as input to create an SBAS Calculated Sediment Budget

Variable alongshore parameters



Variable structures and failure



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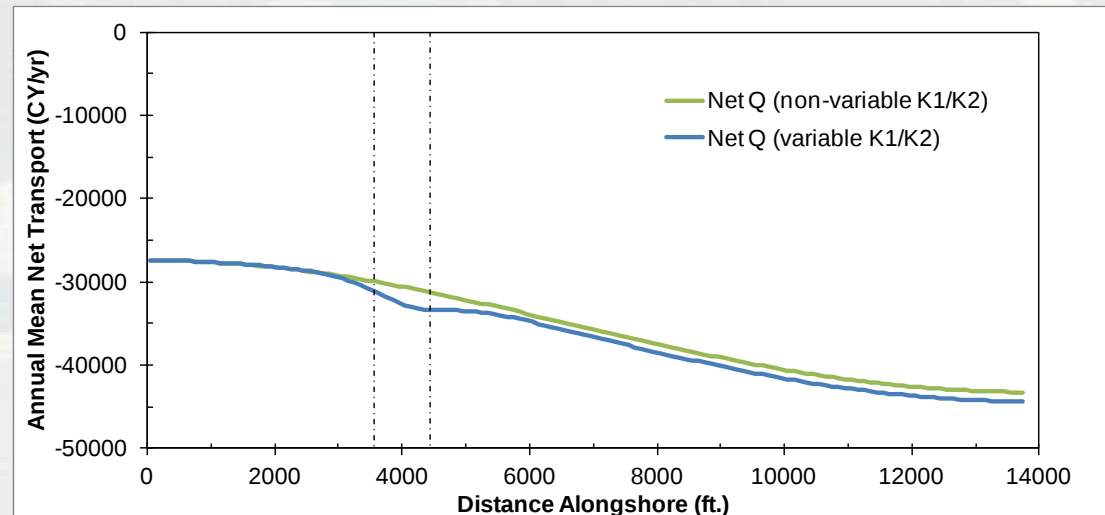
FY13 Documentation

Wiki-TN: Standard Methodology for Calibration and Validation

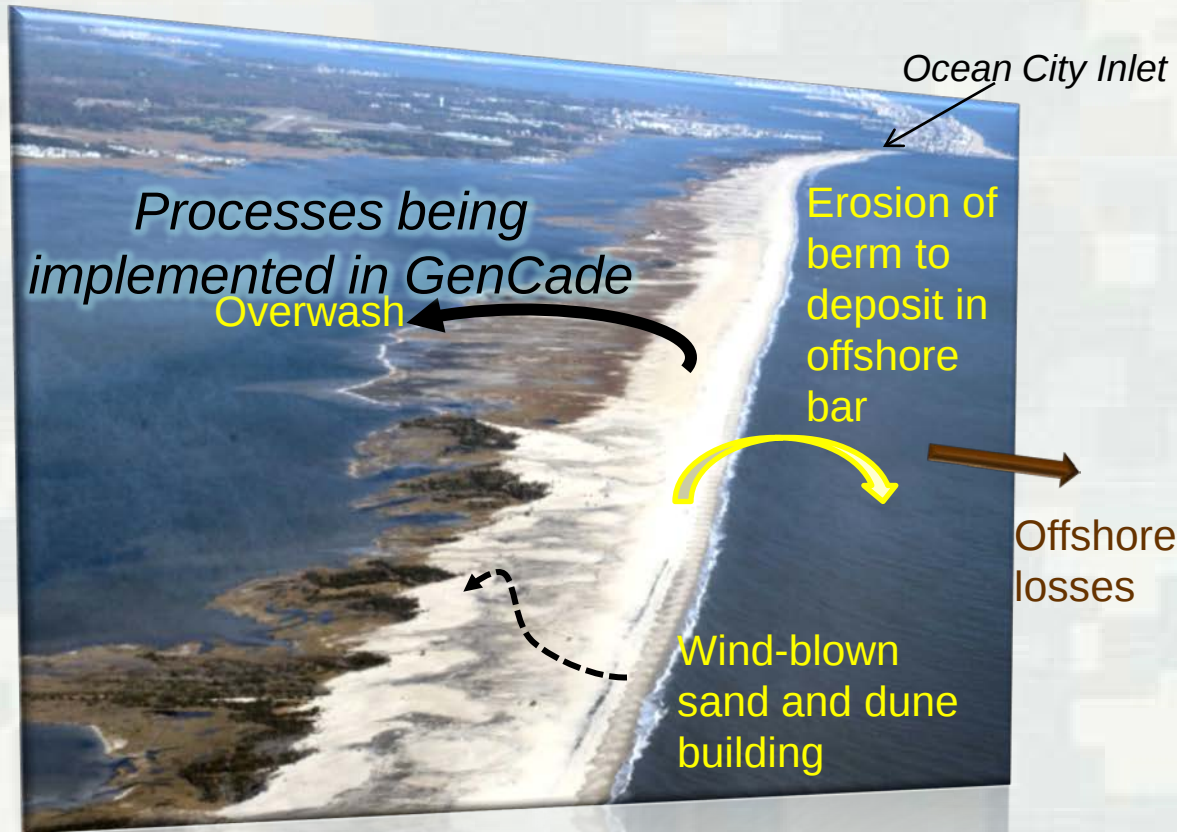
- *Statistical toolkit*
- *Recommended statistics for acceptable Cal/Val*
- *Standard, unified approach*

GenCade V2 Release

- Variable parameters and structures
- Code enhancement
- Output files for SBAS
- Updated documentation for V2 (wiki-TN or TR)



FY13 & Beyond – Cross-shore Transport

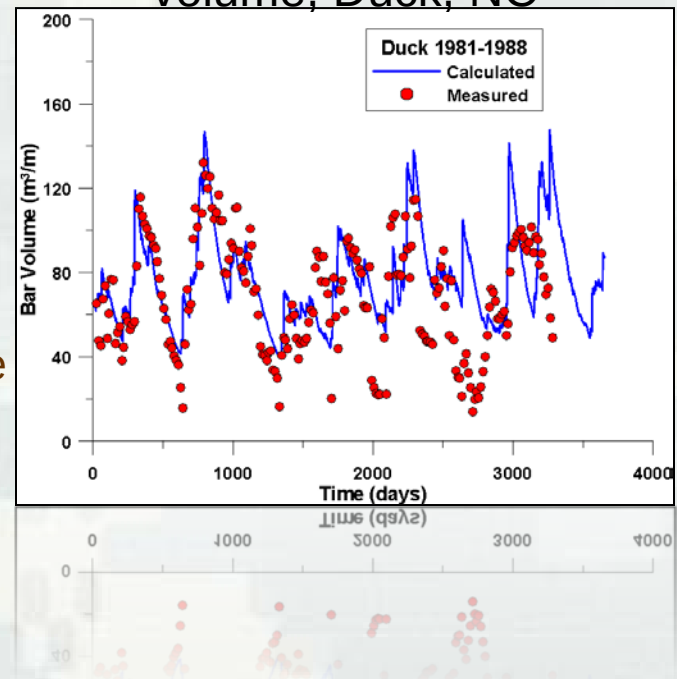


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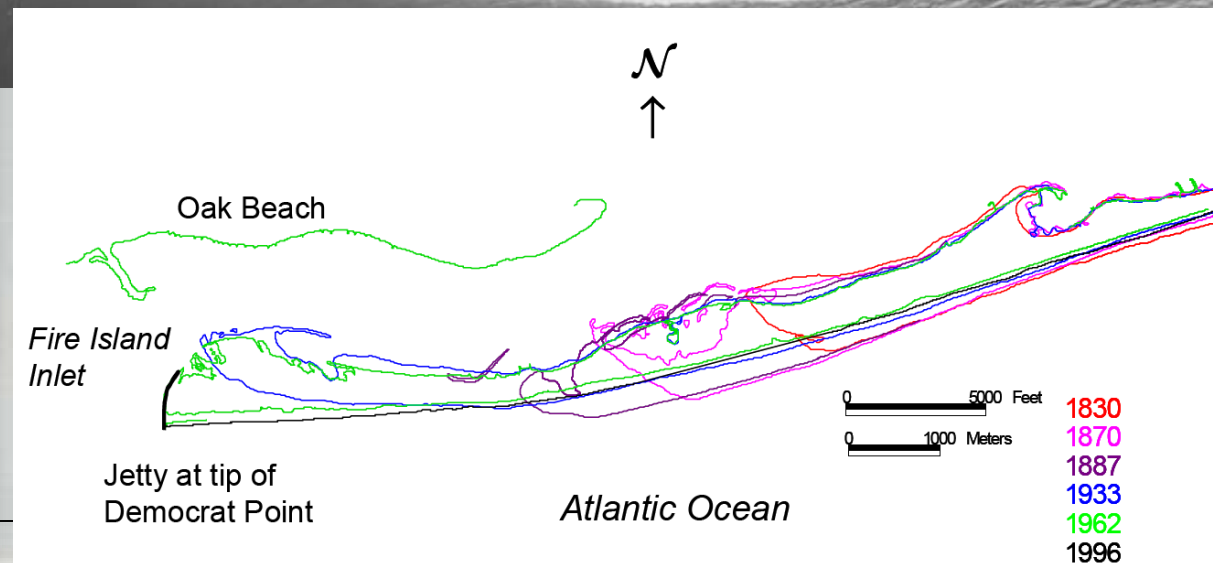
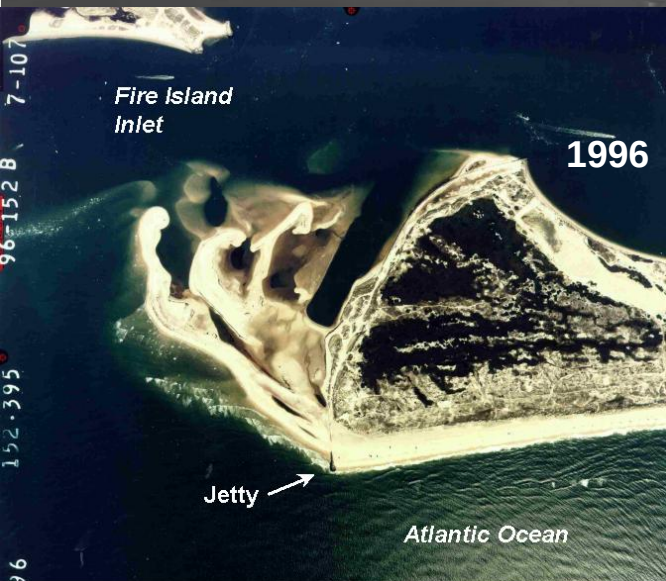
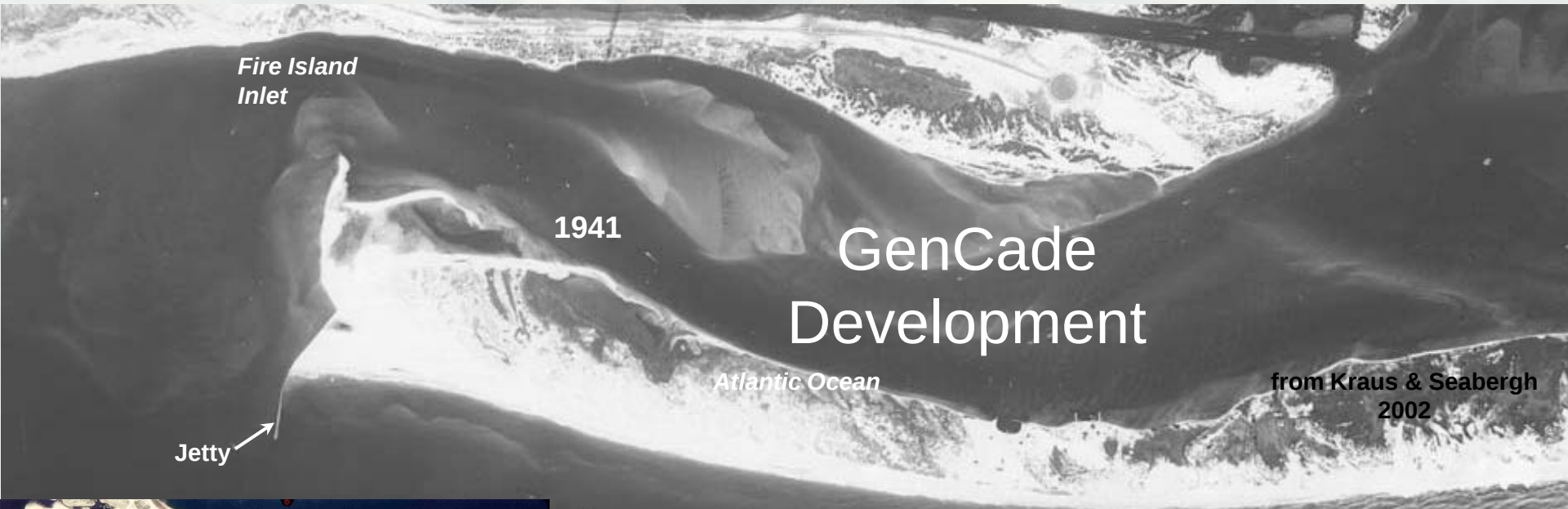
Example comparison between measured and calculated bar volume, Duck, NC



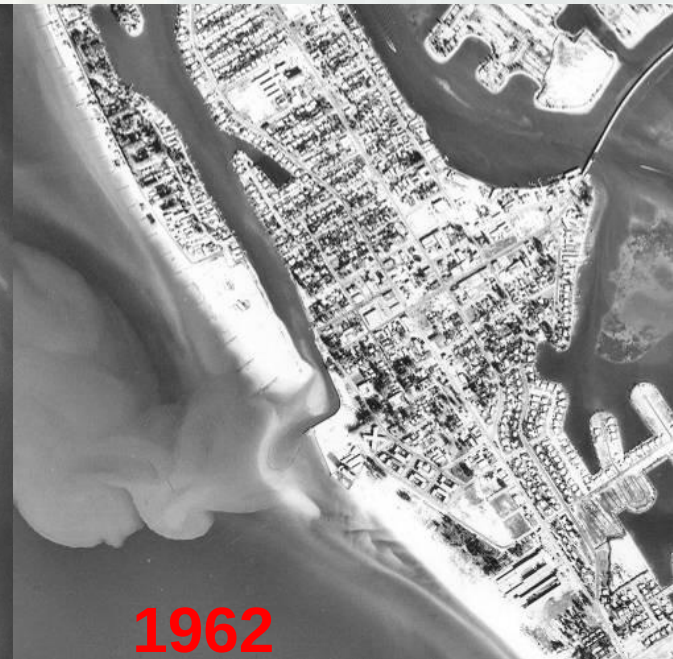
ERDC

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FY13 & Beyond – Spit Growth



FY13 & Beyond - Inlet and Barrier Migration



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