



**US Army Corps  
of Engineers®**

Engineer Research and  
Development Center

## Coastal Inlets Research Program

### Inlet Bypassing & Nearshore Berms

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**Problem** Coastal inlets and adjacent beaches must be managed as a system.

**Research Approach** Develop predictive technology, focusing on sediment transport and morphology change for the coastal inlet area that involves interacting waves, currents, rivers, sediment transport, and changing sea bottom. Develop specialized models to efficiently predict navigation channel infilling, coastal barrier breaching near inlets, and nearshore berm evolution.

**Labs/others involved** CHL: All coastal Districts involved.

**Final Products** Coastal Modeling System (CMS) that covers both two- and three-dimensional capability, including sediment transport by waves, channel infilling models, and breaching model.

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