



**US Army Corps
of Engineers®**

Engineer Research and
Development Center

Coastal Inlets Research Program

Basic Inlet Processes

Problem In the complex hydrodynamic and sediment transport environment of coastal inlets, all predictive technology depends on availability of accurate estimates of waves, current, sediment transport, and morphology change, as well as improved numerical methods. Improvements of basic knowledge needed in many areas.

Research Approach Produce improved and reliable predictive formulas for engineering use.

Labs/others involved CHL: All coastal Districts involved through brainstorming workshops and in data assembly.

Final Products Peer-reviewed formulas and publications on fundamental wave, current, and sediment transport processes; data reports; detailed documentation on predictive technology.

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