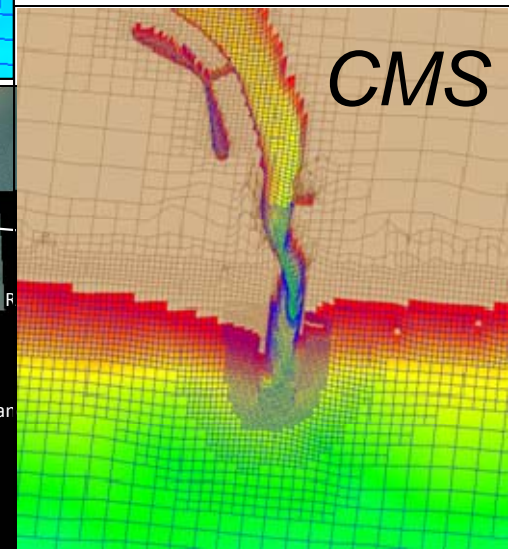
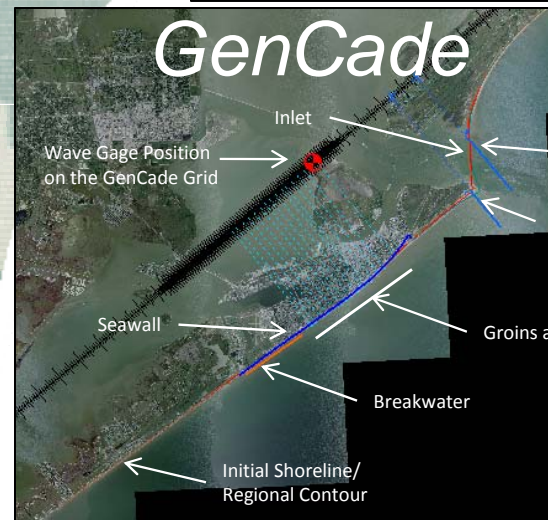
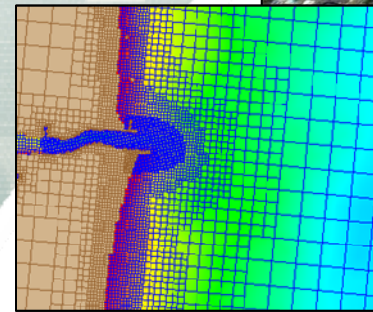


CIRP Web Tools

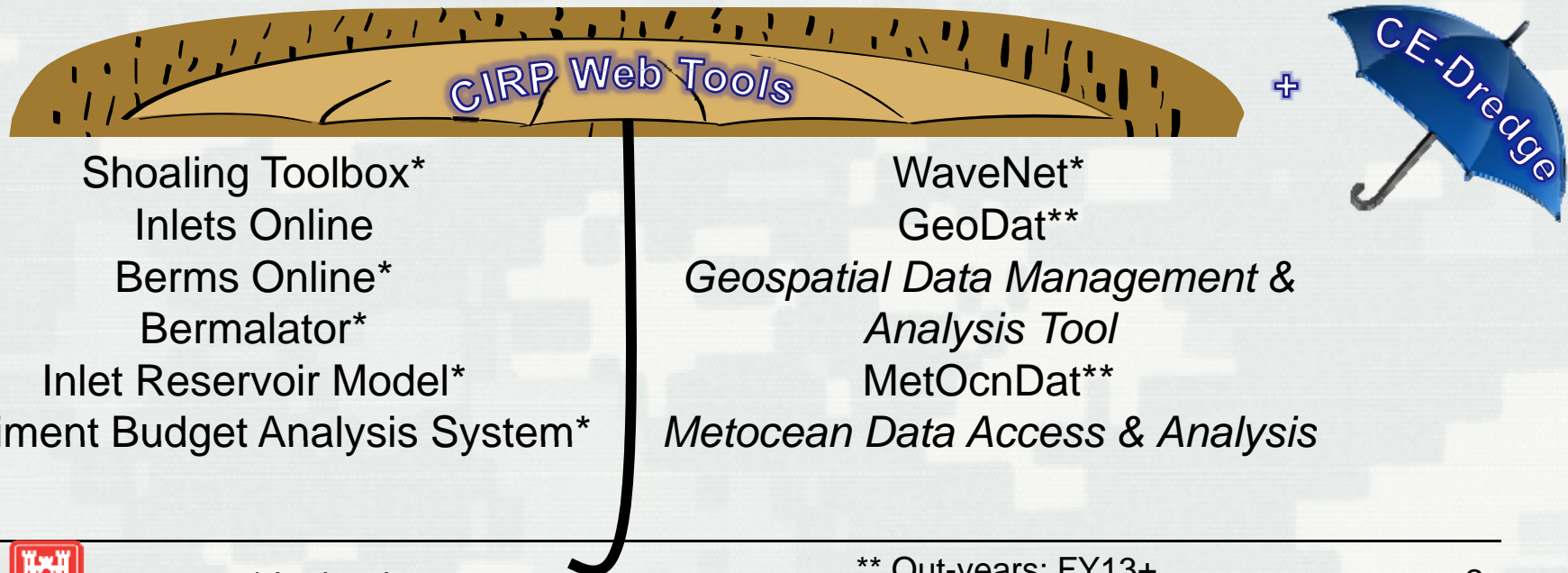


CIRP PIs



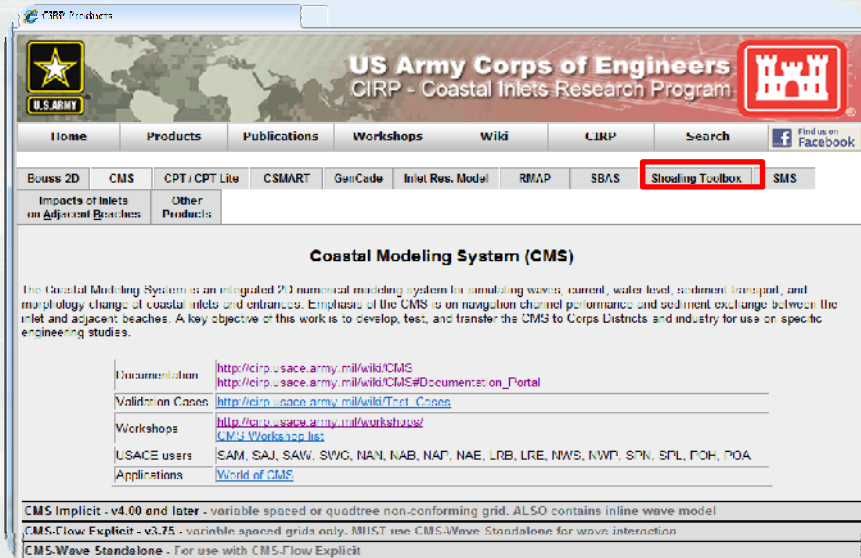
US Army Corps of Engineers
BUILDING STRONG

- Suite of web-accessible tools to access existing engineering and geospatial databases to facilitate:
 - Visualizing data and information
 - Creating report-quality graphics
 - Simple calculations
 - Re-formatting data for use in numerical models
 - Seamless linking to other products



Existing Web Tools

All accessible via CIRP website under Products



US Army Corps of Engineers
CIRP - Coastal Inlets Research Program

Home Products Publications Workshops Wiki CIRP Search Find us on Facebook

BoUSS-2D CMS CPT/CPT Lite CSMART GenCode Inlet Res. Model RMAP SBAS **Shoaling Toolbox** SMS

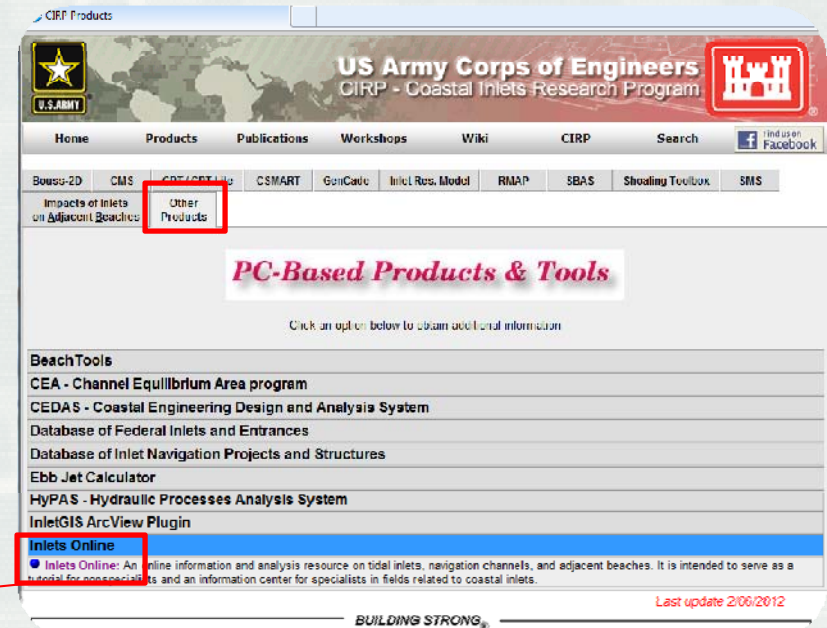
Impacts of Inlets on Adjacent Beaches Other Products

Coastal Modeling System (CMS)

The Coastal Modeling System is an integrated 2D numerical modeling system for simulating waves, current, water level, sediment transport, and morphology change of coastal inlets and entrances. Emphasis of the CMS is on navigation channel performance and sediment exchange between the inlet and adjacent beaches. A key objective of this work is to develop, test, and transfer the CMS to Corps Districts and industry for use on specific engineering studies.

Documentation	http://cirp.usace.army.mil/wiki/CMS http://cirp.usace.army.mil/wiki/CMS#Documentation:_on_Portal
Validation Cases	http://cirp.usace.army.mil/wiki/Valid_Cases
Workshops	http://cirp.usace.army.mil/workshops/CMSWorkshops
USACE users	ESAM, SAJ, SAW, SWC, NAN, NAB, NAP, NAE, LRB, LRE, NWS, NWP, SPN, SPL, POH, POA
Applications	World of CMS

CMS Implicit - v4.00 and later - variable spaced or quadtree non-conforming grid. ALSO contains inline wave model
 CMS-Flow Explicit - v3.75 - variable spaced grids only. MUST use CMS-Wave Standalone for wave interaction
 CMS-Wave Standalone - For use with CMS-Flow Explicit



CIRP Products

US Army Corps of Engineers
CIRP - Coastal Inlets Research Program

Home Products Publications Workshops Wiki CIRP Search Find us on Facebook

BoUSS-2D CMS CPT/CPT Lite CSMART GenCode Inlet Res. Model RMAP SBAS Shoaling Toolbox SMS

Impacts of Inlets on Adjacent Beaches **Other Products**

PC-Based Products & Tools


Click an option below to obtain additional information

- Beach Tools
- CEA - Channel Equilibrium Area program
- CEDAS - Coastal Engineering Design and Analysis System
- Database of Federal Inlets and Entrances
- Database of Inlet Navigation Projects and Structures
- Ebb Jet Calculator
- HYPAS - Hydraulic Processes Analysis System
- InletGIS ArcView Plugin
- Inlets Online**

Inlets Online: An online information and analysis resource on tidal inlets, navigation channels, and adjacent beaches. It is intended to serve as a tutorial for non-specialists and an information center for specialists in fields related to coastal inlets.

BUILDING STRONG® Last update 2/06/2012

CPT and CSMART are decision-support web tools to query databases to intercompare navigation channel and vessel transit data (CPT) and coastal structures (CSMART)



US Army Engineer Research and Development Center
US Army Corps of Engineers

Inlets Online

Inlets Online is an information and analysis resource on tidal inlets, navigation channels, and the adjacent beaches. It is intended to serve as a tutorial for non-specialists as well as an information center for specialists in the areas of coastal engineering, geology, oceanography, and coastal zone management.

CIRP Coastal Inlets Research Program
CHL Coastal and Hydraulics Laboratory

We hope your browsing experience is informative and productive. Our goal is to continually update the site with new data on Federal inlets, navigation channels, and adjacent beaches to provide useful information for coastal engineers and scientists, coastal zone managers, and non-specialists. Customized development and content of this site will benefit directly from suggestions and comments provided by its users. Please take a moment to register your comments regarding the site and its contents by clicking [Feedback](#).

Berms Online*

*Jointly supported by CIRP and RSM

- GeoDat – Geospatial Data Management & Analysis
 - Access, extract, visualize, reformat and analyze data for use in project planning, design, and numerical models
 - Bathymetry, shoreline, structures, navigation channel framework, coastal infrastructure, reefs, land elevation and city and urban area building data
 - Data sources include NOAA, USACE, ERDC, USGS, and others
- MetOcnDat – MetOcean Data Access & Analysis
 - Access, extract, visualize, reformat and analyze data for use in project planning, design, and numerical models
 - Wind, wave, tide (water level and current) and river discharge
 - **WaveNet** is the first piece of the MetDat tool
 - ▷ Video clip will be shown next
 - Data sources include Navy, Air Force, NOAA, CDIP, USGS, FRF, WIS, and others

WavNet Video Clip

by Dr. Derek Wilson, WavNet developer

