

January 24, 2011



12th Annual CIRP Technology- Transfer Workshop

Modeling and Decision-Support Tools for Coastal Inlets

Sponsored by

**U.S. Army Corps of Engineers
Coastal Inlets Research Program**

7-9 February 2011

Hyatt Regency Jacksonville-Riverfront, Jacksonville, Florida

In cooperation with

**Florida Shore and Beach Preservation Association's
24th National Conference on Beach Preservation Technology,
9-11 February 2011**



Featuring: Coastal Modeling System (CMS), GenCode, Regional Morphology Analysis Package (RMAP), Channel Portfolio Tool (CPT), Coastal Structures Management, Analysis, and Ranking Tool (CSMART), Tidal Analysis and Prediction Software (TAPS)

<http://cirp.usace.army.mil/>

Monday, 7 February 2011

Modeling and Decision-Support Tools for Coastal Inlets		
8:00 – 8:30 am	Registration	
8:30 – 8:45	Welcome! Introductions, Overview and Goals of Workshop Julie Rosati, Coastal & Hydraulics Laboratory (CHL)	
8:45 – 9:15	Overview of Website and User Resources Alex Sanchez & Mitch Brown, Coastal & Hydraulics Laboratory (CHL)	
	Session A: Beginner CMS/SMS	Session B: Advanced CMS*
9:15 – 9:40	Introduction to SMS v.11	Introduction to CMS Theory and Advance Features
9:40 – 10:00	Overview of CMS-Flow and CMS-Wave	Hands On: Advanced Preprocessing of Bathymetry
10:00 – 10:15	Break	
10:15 – Noon	Working with Bathymetry – Hands-on Projections, Datum Conversion, Multiple Surveys, Smoothing	Hands On: Telescoping Grid Generation Advanced Features in CMS-Flow Friction, Meterological, Boundary Conditions, Nonuniform Sediment, Statistics, etc.
Noon – 1:15	Lunch	
1:15 – 2:45	Basics of CMS-Flow – Hands-on Grid generation, BC Forcing, Setting Parameters, Execution	Advanced Features in CMS-Flow (continued)
2:45 - 3:00	Break	
3:00 – 4:00	Basics of CMS-Flow (continued)	Advanced Features in CMS-Wave Variable wind, Variable wave boundary, full-plane, muddy bottom/bottom friction, etc.
4:00 – 5:00	CPT/CSMART	Optional One-on-One Help with CMS Applications
5:00	Adjourn for Day	
* Advanced CMS users are those attendees who have participated in one of our CIRP workshops in the past and are familiar with operation of CMS and SMS.		

Tuesday, 8 February 2011

Modeling and Decision-Support Tools for Coastal Inlets		
	Session A: Beginner CMS/SMS	Session B: Advanced CMS*
8:00 – 10:15	CMS-Wave Grid Generation, Spectra Transformation, Setting Parameters, Execution	Post-processing, Calibration, and Validation Steps, Goodness of fit, Sediment Balance and Pathways, Troubleshooting guidance
10:15 – 10:30	Break	
10:30 – Noon	Post-Production Solution, Observation, Visualization, Animation, Export data, Functional Surfaces	Hands On: Salinity Case for Jupiter Inlet, FL
Noon – 1:15	Lunch	
1:15 – 2:00	Telescoping Grid Basic Information, Grid Generation, New Parameters and Features	Hands On: Particle Tracking (PTM) Idealized Inlet
2:00-2:30	Break	
2:30-5:00	RMAP	Optional One-on-One Help with CMS Applications
5:00	Adjourn for Day	
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Wednesday, 9 February 2011

Modeling and Decision-Support Tools for Coastal Inlets	
8:30-10:00	GenCade
10:00 – 10:30	Break
10:30 – 11:45	Hands-On GenCade
11:45 – 12:00	Feedback / Venue for Future Workshops
12:00	Adjourn Workshop