

STATE OF THE COASTAL INLETS RESEARCH PROGRAM FY26 ~MIDYEAR UPDATE

16 June 2026



U.S. ARMY



US Army Corps
of Engineers®



ERDC
ENGINEER RESEARCH & DEVELOPMENT CENTER



PM: Marissa J. Torres

NAV TD: Matt Smith

NAV BLM: Tiffany Burroughs



OUTLINE



Let's talk...

- \$\$
- FY26 Work Units
- FY27 and Sustainability
- Tech discussions



FY26 EXPECTATIONS

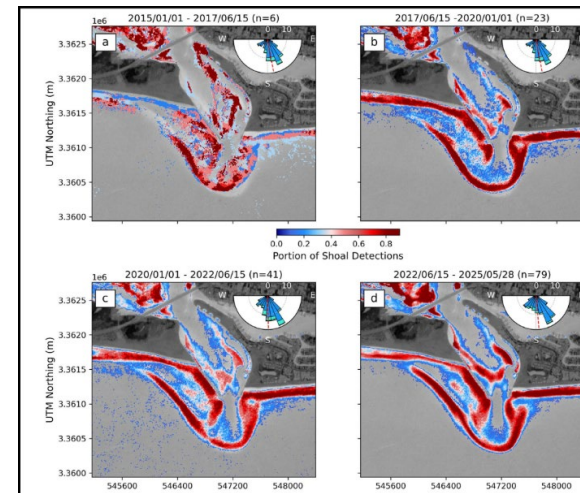
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- \$2M expected
- 10.5 Continuing work units, no new starts
 - Inlets Atlas 2.0
 - NextGen Coastal Volumes
 - Hazardous shoals x2
 - SBAS-Aeolian
 - Rubblemound hindcasting
 - CSAT Dev
 - CSHORE-Veg
 - Multiscale CMS-CSHORE
 - CMS Dev
 - FUNWAVE guidance (wrap up)
- 11 SoNs actively being addressed
- 5 CMS Reimbursables



NextGen Coastal Vol



Multispectral NDWI



CoastSat whitewater

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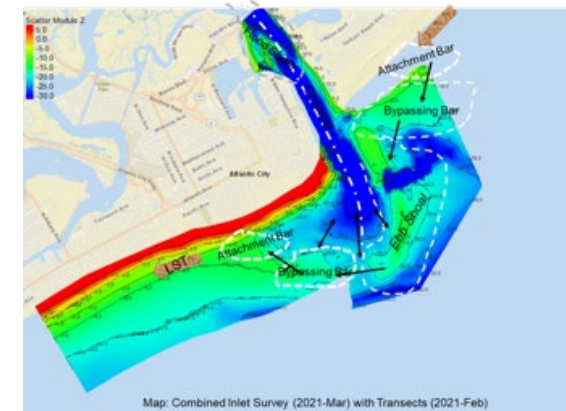
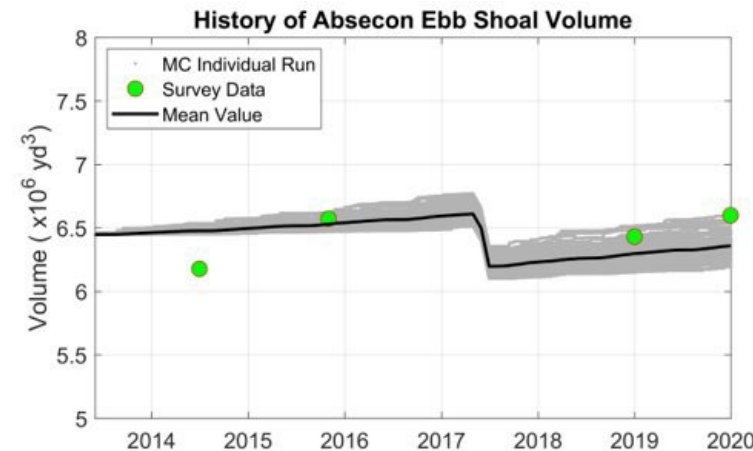
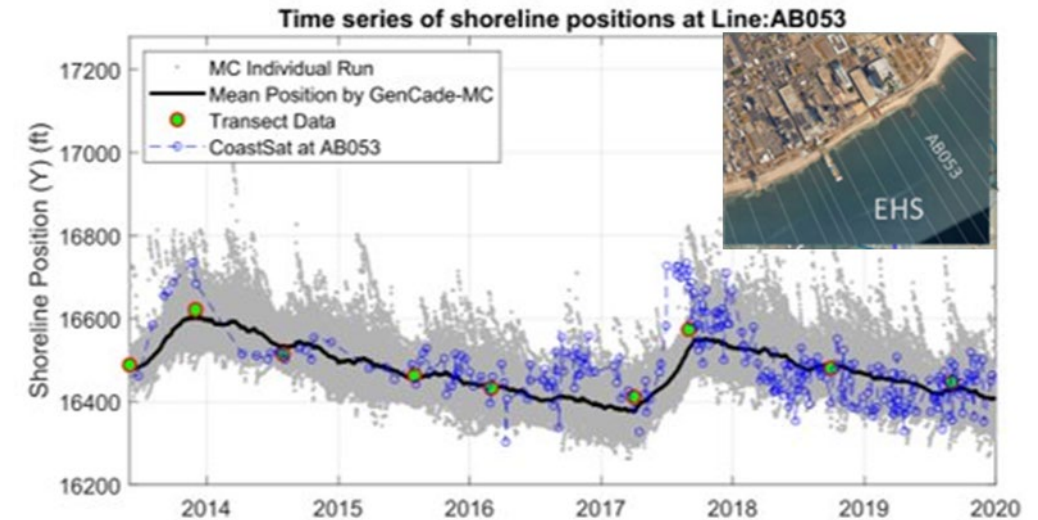


FY26 REALITY

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- \$2.8M !!
- 10.5 Continuing work units, 2 restarts
 - Inlets Atlas 2.0
 - NextGen Coastal Volumes
 - Hazardous shoals x2
 - SBAS-Aeolian
 - Rubblemound hindcasting
 - CSAT Dev + Ops
 - CSHORE-Veg
 - Multiscale-CMS
 - CMS Dev
 - FUNWAVE guidance (wrap up)
 - GenCade V2.0 →
- 3 Contracting actions
 - Post-grad student (ORISE)
 - Geospatial product support (IDIQ)
 - CMS code advancements (BAA)



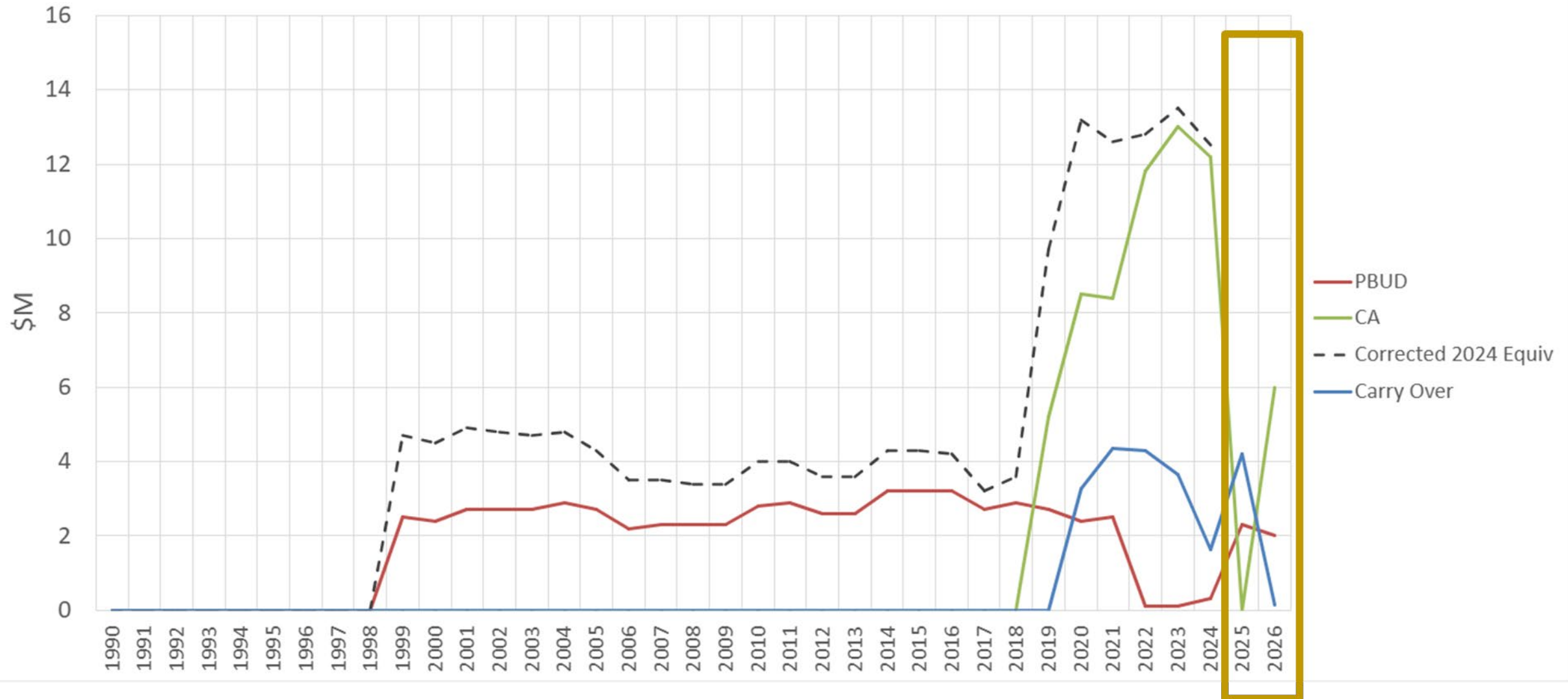
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HISTORICAL FUNDING LEVELS



Coastal Inlets Research Program O&M Funds





FY26 WORK UNITS

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Inlets Atlas 2.0	Charlene Sylvester, Justin Shawler
NextGen Coastal Volumes	Scott Spurgeon, Charlene Sylvester
Inlet Hazardous Shoals (low wave energy)	Justin Shawler, Aleks Ostojic
CoastSat Hazardous Shoals (high wave energy)	Ian Conery, Shannon Brown
SBAS-Aeolian	Kaite McPherran, Sean McGill
CSAT Dev + Ops	Michael Hartman, Rachel Bain
Coastal Structure Hindcast	Fabian Garcia Moreno, Kevin Hodgins
CSHORE-Veg	Elizabeth Holzenthal, Yan Ding
Multiscale CMS	Brad Johnson, Elizabeth Holzenthal
CMS Dev	Mitch Brown
GenCade V2.0	Yan Ding
FUNWAVE Guidance (wrap up)	Ryan Schanta, M. Torres

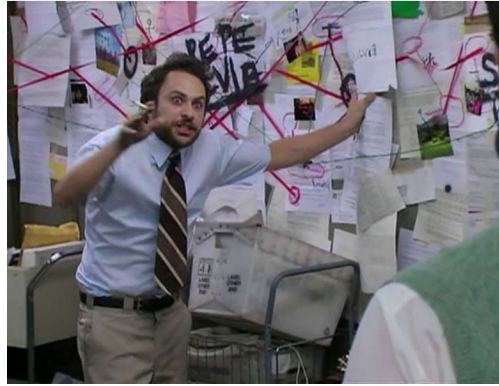
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SUSTAINABILITY

- Base program → work package(s)
- Reimbursable model
 - Opportunistic or planned
- District transition
 - Owner, operator
 - ERDC reachback support

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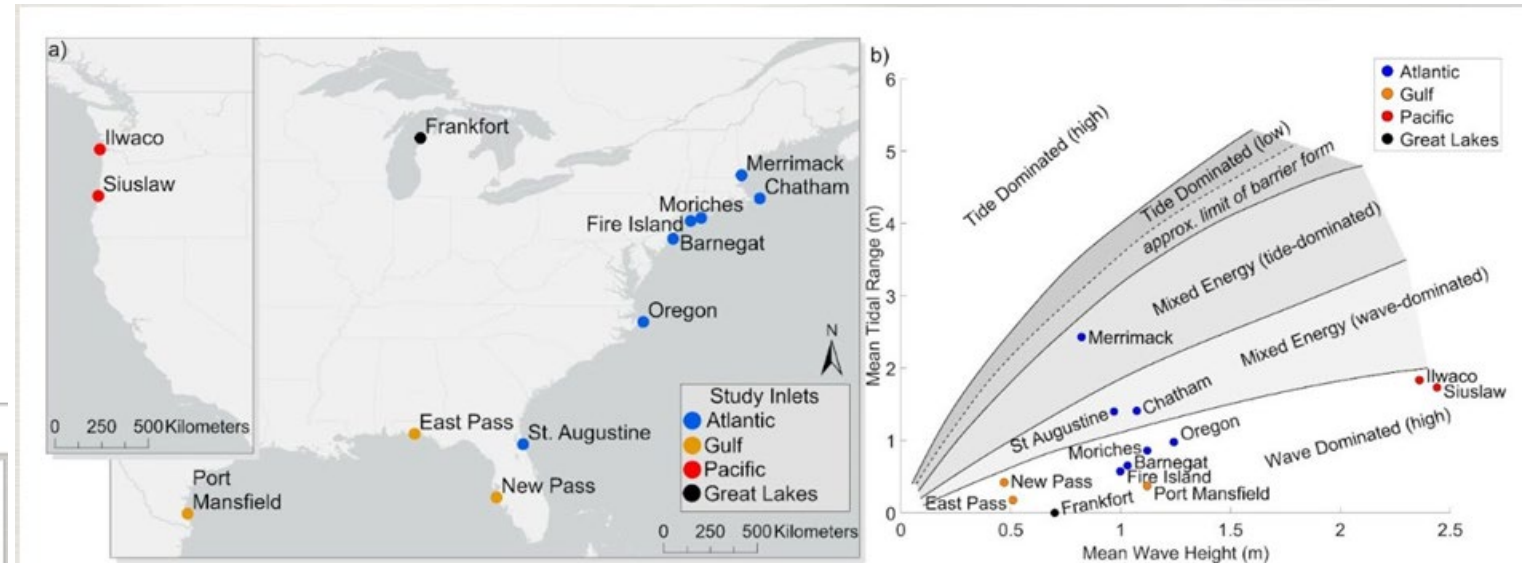
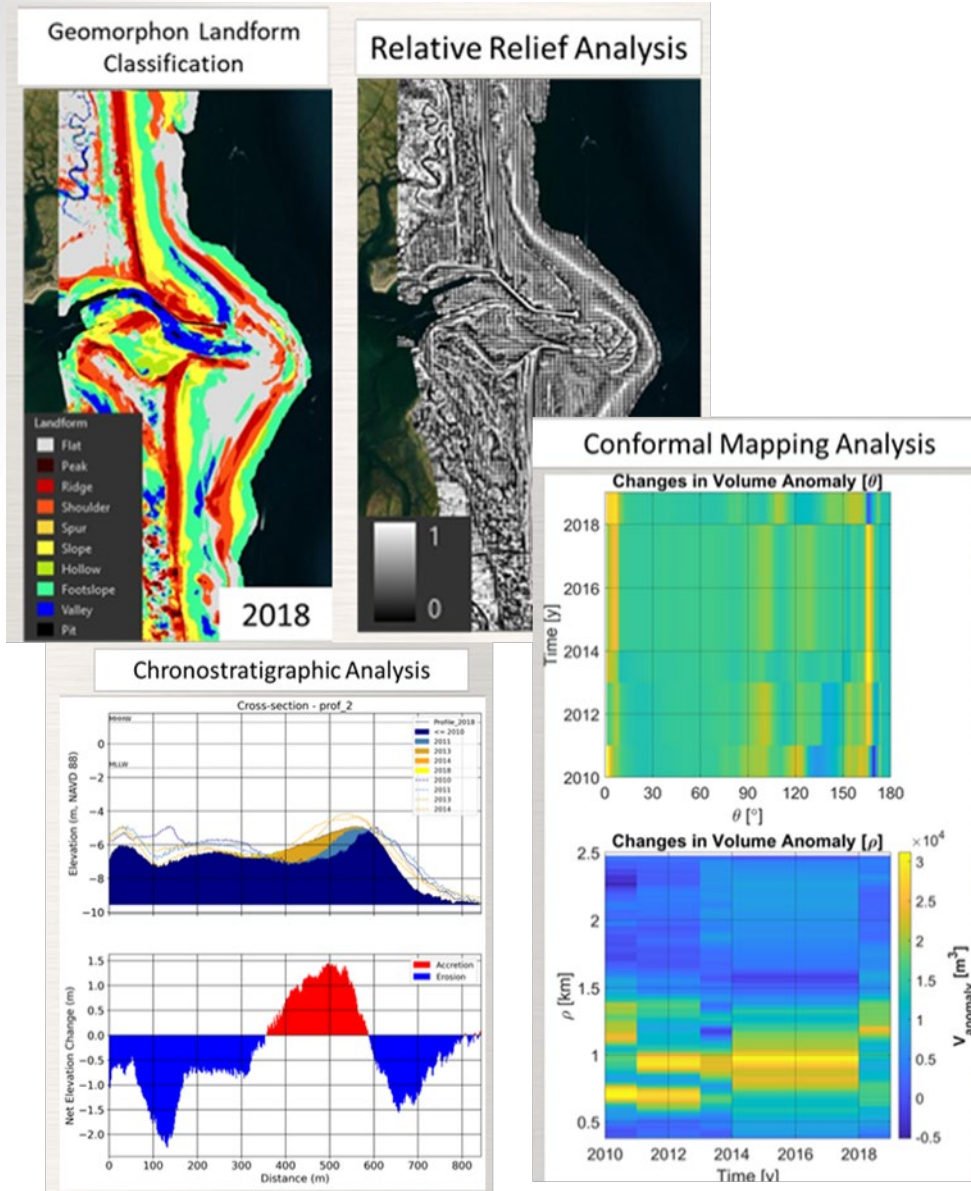
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INLETS ATLAS 2.0

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https://cirp.usace.army.mil/techtransfer/discussions/FY26/CIRP_TD_InletGIS_2025-11-18.pdf



Existing Atlas

- Storage – Hosted feature layer in ArcGIS® Online, consuming minor amount of ESRI credits
- One primary point feature class with all attributes
- Data is disconnected from authoritative data sources, requiring manual update and maintenance of feature layer.
- Backup - Copies of data exist across MS Teams and local machines. Which source is authoritative? Current?

Inlets Atlas 2.0

- Storage – Enterprise geodatabase hosted on ERDC RDE network in partnership with USACE CorpsCam
- SDSFIE-compliant feature classes, tables, relationship classes, and metadata
- Authoritative data in the Enterprise geodatabase stays in sync with web services and applications.
- Backup - Routine backups of the geodatabase are accomplished by system admin.

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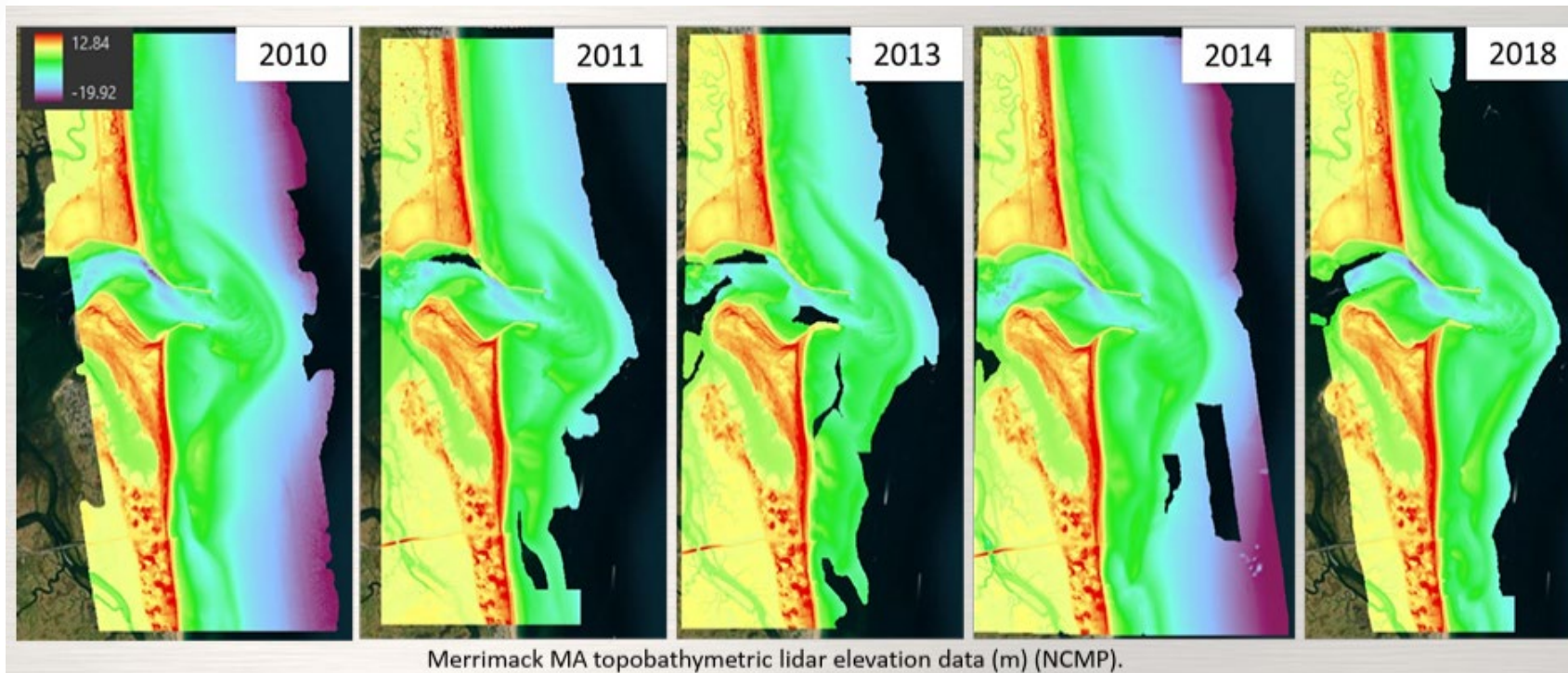
INLETS ATLAS 2.0, cont.

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https://cirp.usace.army.mil/techtransfer/discussions/FY26/CIRP_TD_InletGIS_2025-11-18.pdf



- Sustainability
 - Data storage and hosting → ESRI AGOL server in FY27 budget; transition to eGIS
 - New data for existing inlets → as needed, as resources allow (K. McPherran)
 - New inlets from scratch → reimbursable model (TBD)



Call to Districts!

Do you have an upcoming channel, inlet, or beach topobathy survey?

Consider ~\$15K for CHL geomorphometric analysis and contributing to the Inlets Atlas!



FY27 OUTLOOK



- **\$1.4M** w/ possible appr. Increase
- Keep the lights on
- Sustainability pathways

Inlets Atlas 2.0	Close out, final documentation
NextGen Coastal Volumes	Close out, final documentation
Inlet Hazardous Shoals (low wave energy)	Close out, final documentation
CoastSat Hazardous Shoals (high wave energy)	Tool integration, model training
SBAS-Aeolian	In-person training and documentation
CSAT Dev + Ops	Optimization and Modernization
Coastal Structure Hindcast	Hindcast performance cont.
CSHORE-Veg	Sed-Veg transport dynamics
Multiscale CMS	Phase-resolved sed trans
CMS Dev	V&V, model training
GenCade V2.0	GUI Development + User Guide



TECH DISCUSSION SCHEDULE



Date	Topic	Presenter
30-Jun	National Coastal Mapping Program: Data, Tools, and Applications (NCMP Cross-over)	Charlene Sylvester
7-Jul	CMS-Dev	Mitch Brown
14-Jul	Inlets Atlas 2.0	Justin Shawler & Kaite McPherran
28-Jul	Multiscale-CMS	Brad Johnson
11-Aug	Inlets-HazShoals	Justin Shawler & Aleks Ostojic
25-Aug	SBAS-Aeolian	Pete Tereszkievicz & Ashley Elkins
8-Sep	CoastalStruc-Rubblemound	Fabian Garcia Moreno & Jeff Melby
22-Sep	Open	TBD



CROSS-OVER TECH DISCUSSIONS



A huge THANK YOU to all cross-program presenters!

Date	Topic	Presenter	Program
10-Feb	Navigating Murky Data to Actionable Insights: Shoaling Analysis for Galveston District's Deep-Draft Channels	Rachel Bain	MCNP
10-Mar	Simulating Time-dependent Meteorological and Oceanographic (METOC) Conditions for Coastal Impacts	Dylan Anderson	CODS
24-Mar	CSHORE model development to enable hindcasting and forecasting of coastal tundra retreat in the Arctic	Nick Cohn	CODS
5-May	Subaerial and subaqueous contributions to channel shoaling in Port Mansfield Inlet Texas: A holistic approach to quantifying inlet shoaling	Kaite McPherran & Pete Tereszkievicz	MCNP
30-Jun	National Coastal Mapping Program: Data, Tools, and Applications	Charlene Sylvester	NCMP



- SoN Website (31 DEC)

<https://cw-environment.erdcdren.mil/needs>

- Stay connected with CIRP & PIs

cirp@usace.army.mil

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

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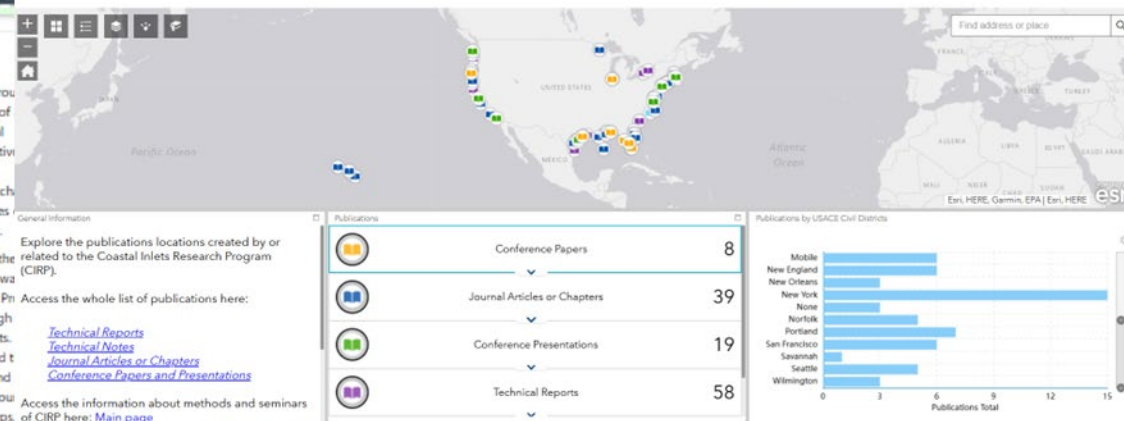
The Coastal Inlets Research Program (CIRP)

Because of the multiple interacting forces and the numerous scales of geomorphic change ranging in time from days of storm to centuries for long-term adjustment, the physical processes of inlets are poorly understood. Little quantitative information is available to predict infilling of navigation channels, long-term change in the nearshore – affecting channel stability, short- and long-term migration trends and cycles – interactions among inlets, adjacent beaches, and estuary.

The Coastal Inlets Research Program, or **CIRP**, advances the and develops engineering technology for predicting the wave transport, and morphology change at and around inlets. It improves management and design of coastal inlets through actions and reduction in operation and maintenance costs. A variety of approaches, including developing concepts and time scales, numerical simulation, field data collection, and experimentation. Reports and peer-reviewed articles as you provide the information gained from the CIRP to the Corps, and public.

 The Coastal Inlets Research Program (CIRP) Publications
Coastal and Hydraulics Laboratory (CHL) Engineering Research Development Center (ERDC) USACE

Organization Web Page



[CIRP Map Portal](#)



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



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