

U.S. Army Corps of Engineers Perspective

NOAA HSRP Public Meeting

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US Army Corps of Engineers
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District History

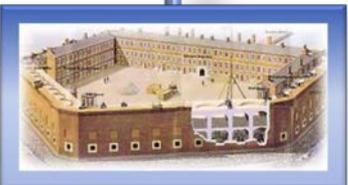


USACE works out of New York after Congress puts \$4M for coastal fortifications



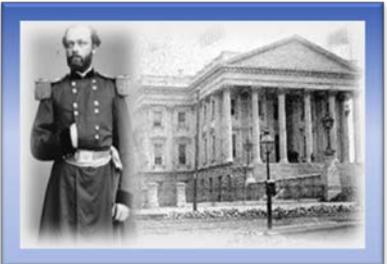
1821

1826
1829



Forts Moultrie, Jackson and Sumter constructed

First permanent USACE office in Charleston w/ COL Quincy A. Gillmore



1871

1879
1895

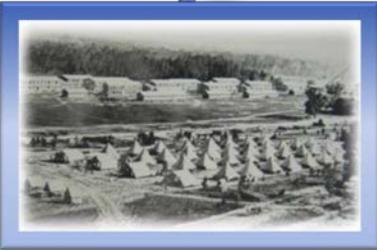


Charleston Jetties constructed

Rivers & Harbors Act - begins the Corps Regulatory jurisdiction



1899



Constructed Camps Jackson, Sevier and Wadsworth

1912

Constructed/Expanded 8 Airfields to include Charleston, Columbia, and Georgetown



1940
1950



FWPCA (Federal Water Pollution Control Act) later CWA (Clean Water Act)

1972

St. Stephen Powerhouse constructed and power turned on



1985



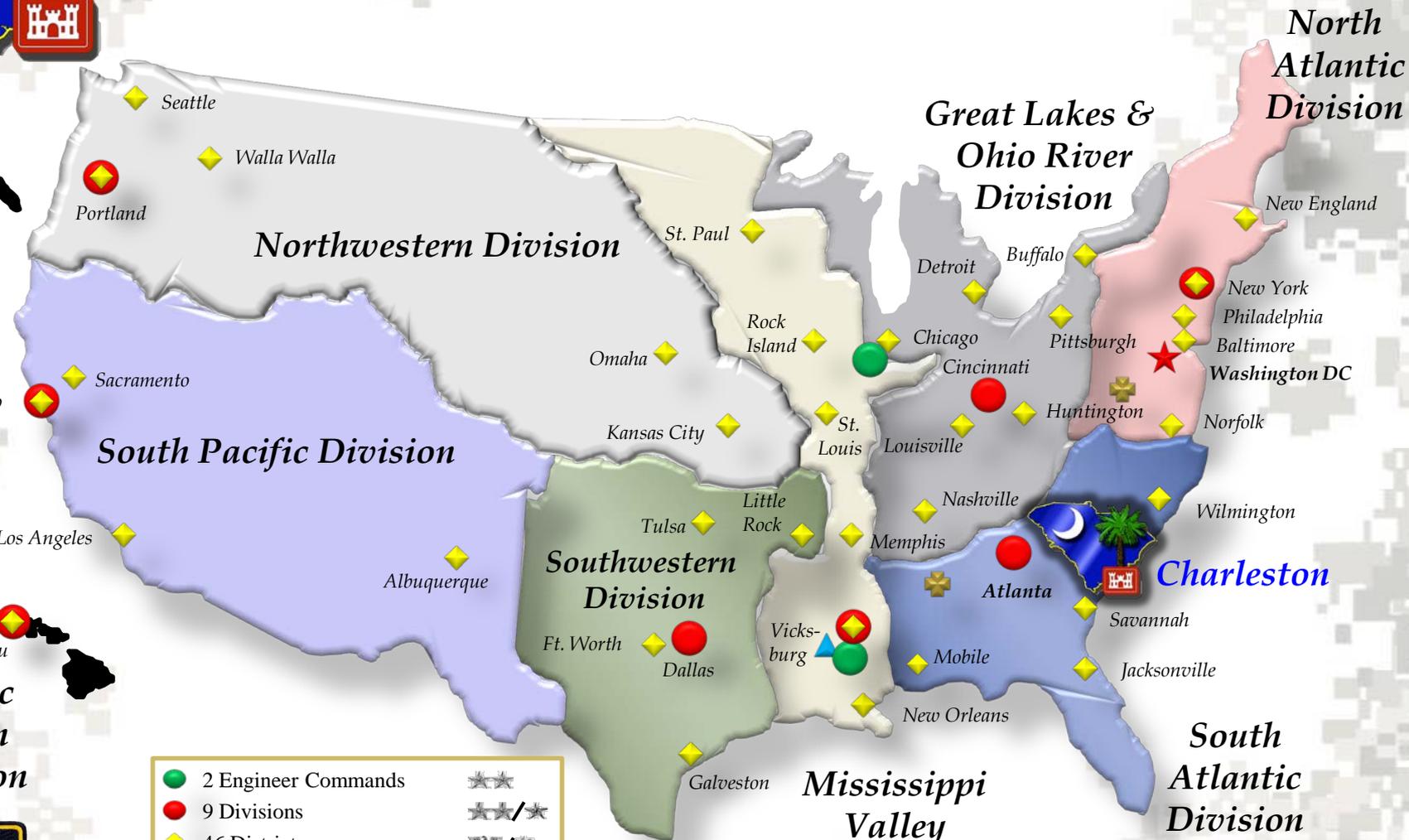
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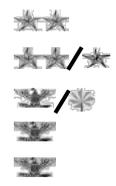
USACE Divisions & Districts



Pacific Ocean Division



- 2 Engineer Commands
- 9 Divisions
- ◆ 46 Districts
- ⊕ 2 Centers
- ▲ ERDC





Charleston District Mission Areas

Military Construction
Supporting Military Readiness

International & Interagency Support
Building Strong For Others

Emergency Management
*Support Immediate
Emergency Response Priorities*

Regulatory
*Protecting South Carolina's
Aquatic Environment*

Civil Works
Solving Water Resource Challenges



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Navigation & Survey



Responsible for the operation and maintenance of two deep draft harbors, several coastal inlets and connecting channels, and the Atlantic Intracoastal Waterway

Cutter Head Dredge

Multi-Beam Sonar

Survey Vessel Evans

Clouter Creek Disposal Area

Topographical Surveys



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Navigation & Survey



**Survey Vessel
Evans**

Capabilities:

- 2 Survey Vessels
- 42' SeaArk (SV Evans)
- 23' SeaArk (SV Wilson)
 - Side Scan Sonar
 - Multibeam Bathymetric Sonar
 - Singlebeam Sonar
 - Topographic LiDAR
- Meets USACE/IHO Special Order specs.



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Navigation & Survey



- Technical Improvements in Information Delivery
 - Advanced survey technology shows channels condition more accurately
 - Web-enabled delivery of channel conditions increases accessibility to mobile users
 - ArcGIS mobile APP enables geo-referenced channel condition information on GPS enabled phones and tablets

- Coordination with NOAA on Data Products
 - District shares condition surveys of Federal channels quarterly.
 - NOAA incorporates data into Nautical Charts



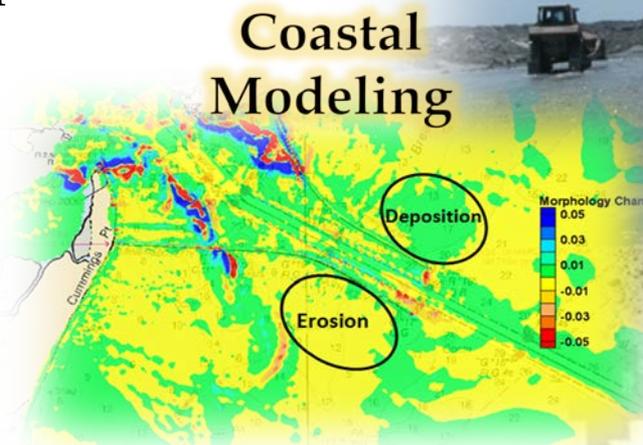
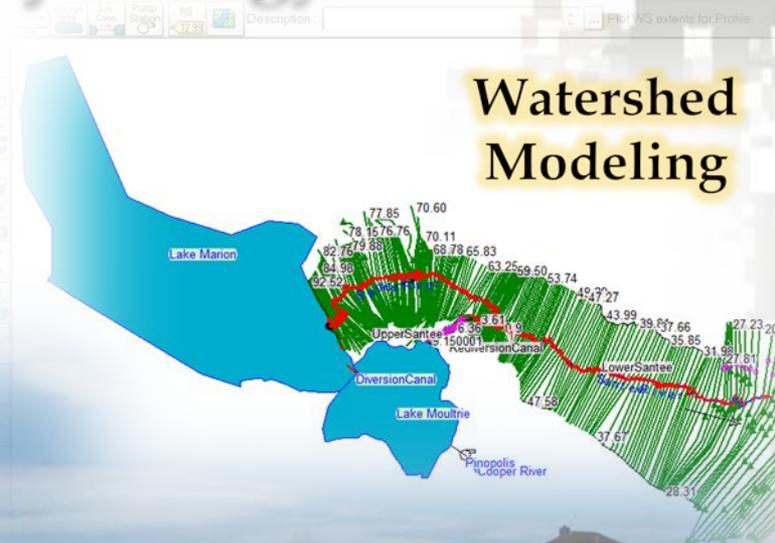
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Engineering Division

Hydraulics, Hydrology and Coastal

The Engineering Division functions to deliver professional engineering products and services in execution of the Charleston District's MILCON, Civil Works, and IIS Programs.

- Flood Risk Management
- Storm/Shoreline Protection
- Streambank Protection
- Ecosystem Restoration
- Watershed Modeling
- River Modeling
- Coastal Modeling



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Emergency Management



- Disaster Preparedness
- Flood Control, Shore Protection
- Disaster Response
- Post Flood Recovery
- Mitigation (Interagency TF)



**Flood Control
& Coastal
Emergencies**



- DOD, Federal
- State & Local
- International

**Interagency
Support**

- MOA with USCG Sector Charleston & Fort Jackson
- Member of SC EMD working group

**Effectively Prepare for and
Respond to Disasters**



Hurricane Hugo
2:44 p.m. EDT
September 21, 1989

**National
Response
Framework**



- Advance Contracting Initiative
- Planning & Response Teams
- Pre-scripted mission assignments

Homeland Security



- Force Protection
- Anti-Terrorism
- Physical Security
- Contingency Operations
- Continuity of Operations
(at St. Stephen Dam)

U.S. ARMY



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USACE - NOAA Partnership



The Corps utilizes several data products from NOAA on a routine basis:

- Tide gage measurements
- NGS benchmarks for vertical measurement
- VDatum for tidal referencing
- Nautical Charts
- U.S. Coast Pilot



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Charleston Harbor Post 45



- ▣ Feasibility Study Cost <\$13M
 - Reduction from original \$18-\$20M estimate
- ▣ Cost Share Sponsor – South Carolina State Ports Authority
 - Target for Chief's Report Completion – Sept 2015
- ▣ Selected for the President's *We Can't Wait* Initiative



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Post 45 What's Next?



- ❑ DEIS & Draft Report for Public Review – October 2014
- ❑ FEIS & Final Report Complete – Late Spring 2015
- ❑ Final Chief's Report – September 2015
- ❑ Preconstruction Engineering and Design (PED) Phase
- ❑ Authorization and Appropriation for Construction
- ❑ Construction



Thank You!



www.sac.usace.army.mil



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