

Atchafalaya River Island Creation - Louisiana

Burton Suedel

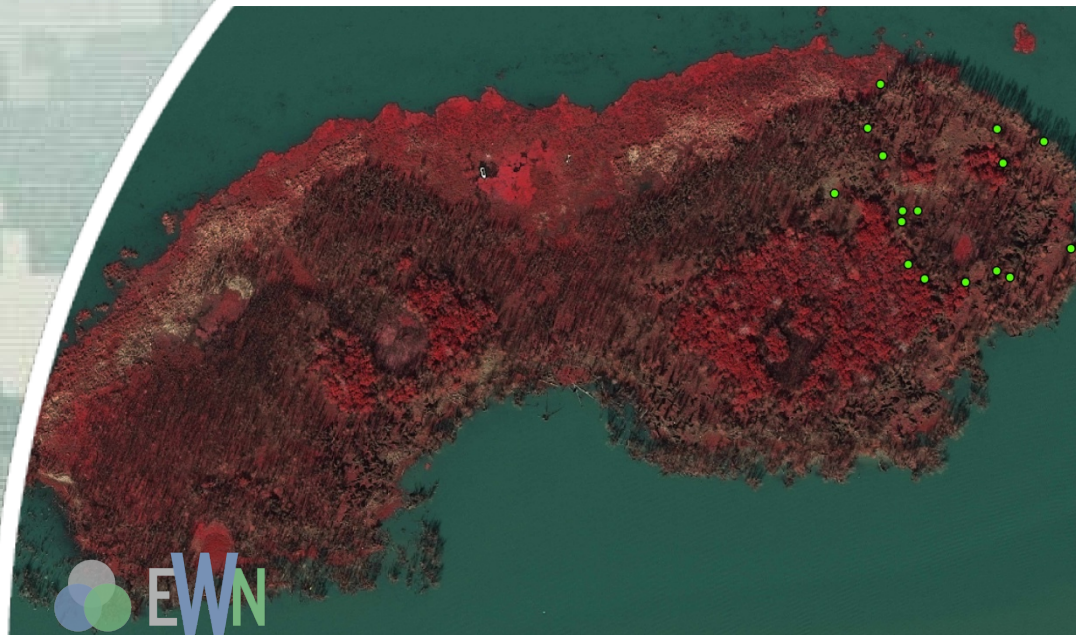
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RSM-EWN IPRs and Working Meeting

Vicksburg, MS

22-24 July 2014



US Army Corps of Engineers
BUILDING STRONG



EWN FY14 IPR



Atchafalaya River Island Creation (Suedel)

- **Problem**

CEMVN is using dredged material to nourish a small naturally forming island, yet our understanding of how and why the island formed is lacking.

Monitoring data are needed to quantify and improve the District's understanding of the maturation of this beneficial use of dredged material within the Atchafalaya Basin.



- **Objective**

To document how a river island was successfully created at Horseshoe Bend using dredged material in a beneficial manner, taking advantage of the natural hydrological processes inherent in the system.

- **Approach**

Hydrologic, geomorphologic and biologic monitoring studies and high resolution aerial mapping are being performed to determine the river hydrology and the establishment of riparian and wetland vegetation and wildlife on the island.



EWN FY14 IPR



Atchafalaya River Island Creation (Suedel)

- Project Funding by Year

FY13: \$125K

FY14: \$266K

FY15: \$210K



- Major Project Deliverables

- Tech Report: Using dredged material and nature to create river island habitat in coastal Louisiana (in press)

- Articles: World Dredging

- USACE Civil Works Benefits

- Needed so concept can be integrated into other dredging projects elsewhere along the Gulf coast, providing substantial environmental and other benefits as part of ongoing maintenance dredging activities.



EWN FY14 IPR



Atchafalaya River Island Creation (Suedel)

- FY14 Products
 - Collaborations with other agencies: USGS, USFWS, GLGD
 - Collaborations with universities: Louisiana State University
 - EWN Fact Sheet
 - Conferences and workshops attended
 - TRB-CMTS 3rd Biennial R&D Conference, Washington, DC
 - EWN-FRM Collaboration Meeting
 - ERDC Technical Note
 - Berkowitz et al. Summary of 2013 Field Surveys (in press)
 - Trade Publications
 - Suedel et al. Feb 2014, World Dredging, 48(9-10):14-16
 - Bridges et al. June 2014, Terra Et Aqua, 135:17-23

*The listing of products provided on this slide should be supported with a one-page Word document that provides a description and the particulars for each product. An electronic version of this document should be provided along with the PPT file to Cynthia Banks by Friday, 18 July. Collaborations and interactions with others (internal and especially external to ERDC, should be described, when relevant, for all products.

