USACE Navigation Sediment Placement: An RSM Program Database

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Project Overview

- Nationwide inventory of Federal Navigation projects
- Determine extent to which RSM goals and BUDM have been implemented
 - Since 1998 when 67th CERB theme was "Regional Sediment Management"
- <u>Data sources</u>: IWR Navigation Data Center's Dredging Information System (DIS) + internal District databases
 - Navigation Data Integration Framework
- <u>Products</u>: Web-application, 2 databases, report, transition plan/user guide



USACE Digital Library

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Advanced Search

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DIS 1.0*



Modified from Childs 2015



USACE Navigation Sediment Placement: An RSM Program Database (1998 - Present) About





Modified from Childs 2015



DIS Database "Refinement"

- QA/QC all 7,419 individual projects since 1998
- Excellent DIS data = no unknowns
- District's internal databases
 - MVN, MVM, SPL, SPN, NWP, SWT, NAE
- Interviews discuss specific questions
- → District Specific/QC database

Results (1998 to 2017)

- 200-300 Mcy dredged annually by USACE* & 20-30% is used beneficially*
- 210 Mcy/yr from navigation projects Nationwide
- 82 Mcy/yr used beneficially **39%** (only 25% in DIS)
 - 11.9 Mcy/yr \rightarrow Beaches
 - 15.5 Mcy/yr \rightarrow Wetlands
 - 46.1 Mcy/yr \rightarrow Littoral (in-water)
- 5.8 Mcy/yr = Unknown (43.1 Mcy/yr in DIS)
- How well are we doing?

*EPA & USACE, 2007

https://gim2.aptim.com/RSM

Thank you!

Visualize DIS as interactive geodatabase DIS is the key to future USACE data integration

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