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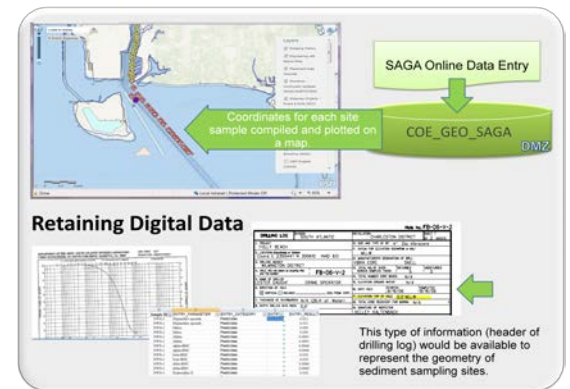
Regional Sediment Management Program



USACE Sediment Analysis Geo-App (SAGA), Guidance, and Tool Development

Description The Regional Sediment Management (RSM) Program and the Coastal Inlets Research Program (CIRP) have joined efforts to develop a USACE-wide enterprise database for all digital and paper sedimentologic data and information for use in nationwide sediment management. The Sediment Analysis GeoApp (SAGA) web-application will serve as the face of webservice-connected District databases (the Sediment Sampling Database (SSD), developed by the Districts and CE-Dredge under Dredging Operation and Environmental Research Program (DOER)) and the central database. Corps-wide access to these datasets will provide a foundation for comprehensive regional assessments for RSM, as well as an important component for rapid analyses to make informed decisions.

Issue The acquisition, analysis, and synthesis of information on sediments within a project are integral to any USACE project. However, the Corps traditionally project-centric focus often limits sediment information to the documents associated with a single project. While significant funding is expended on sediment data collection, limited resources and effort are invested in data retention and knowledge gained.



The SSD and SAGA will provide a Corps-wide enterprise database for all digital and paper sedimentologic data and information, and a web-application which provides access to the SSD with tools for analysis of the data.

Expected Products (1) SAGA web application and webservices; (2) Incorporate District data to Sediment Sampling Database; (3) User Manual; (4) Technical Note.

Potential Users All USACE (Inland and Coastal Districts). Presently, Mobile District, Charleston District and San Francisco District offices have existing Sediment Databases.

Projected Benefits More effective regional planning for dredged sediment; and, the capability to conduct holistic, regional-scale research and analysis on sediment systems.

Leveraging Opportunities Leveraged Funding: Geomorphic Evolution Work Unit, Coastal Inlets Research Program; Potential for other R&D Programs including Dredging Operations and Environmental Research (DOER), and the Navigation Systems (NavSys) Programs.

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Participating Partners ERDC-Coastal and Hydraulic Laboratory; Mobile District