



U-SMART - (USACE SURVEY MONUMENT ARCHIVAL AND RETRIEVAL TOOL)

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Background

One of the major findings from the US Army Corps of Engineers (USACE) Interagency Performance Evaluation Task Force was that local project control was not consistent from project to project and in most cases it was not up-to-date with the current datum values. Local project control is often not accessible outside of the local USACE district branch or section that established it. In order to ensure project control is consistent, current, and available to others within or even outside the district, it was determined that a centralized database was needed to provide USACE districts with the ability to manage and verify control point information quickly and efficiently.

Objective

Develop a Project Control Database to capture and store local project control and primary project control with connections to the National Spatial Reference System (NSRS) and relate these control points to USACE projects. This database allows each District to manage and maintain project control points, ensure they are current and correctly tied to the NSRS, and promote the use of common control by both in-house and contracted surveys as well as the public. Additionally, points may be linked together to create project networks.

Expected Products

A web-based GIS interface for monument archival and retrieval which is part of the CorpsMap Suite of tools and facilitates the archival and retrieval of survey control from the database of USACE and NGS control points.

Potential Users

All USACE engineers, planners, project managers, surveyors and others involved in flood risk management, hurricane protection, shore protection, and navigation projects.

Projected Benefits

Allows district personnel and their contractors to access current up-to-date project control; Continually monitors the NGS database looking for spatial changes and alerts the user of required updates to local control; Hyperlinks To NGS Datasheet and OPUS-DB Datasheets; Part of the suite of products under CorpsMap; Directly linked to projects in Corps Project Notebook (CPN); Versioning for archival of superseded control; Links Local Project Control Points to their Primary Project Control Points; Load data via web interface or standardized PDF input form; and Allow contractors to input data for district point manager to approve and upload to the database.

Participating USACE Elements

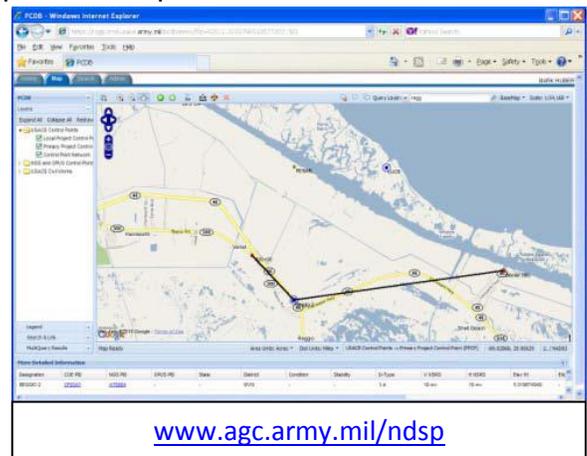
Headquarters, Jacksonville District, Memphis District, all Corps District Datum Coordinators, Army Geospatial Center, ERDC Coastal and Hydraulics Laboratory

Participating External Partners

www.agc.army.mil/ndsp/usmart.asp
NOAA National Geodetic Survey, Center for Operational Oceanographic Products and Services (CO-OPS) and Office of Coast Survey (OCS)
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