

FY21 RSM IPR

ERDC – Sediment Budget Improvements to Support the National RSM Strategy Sean McGill



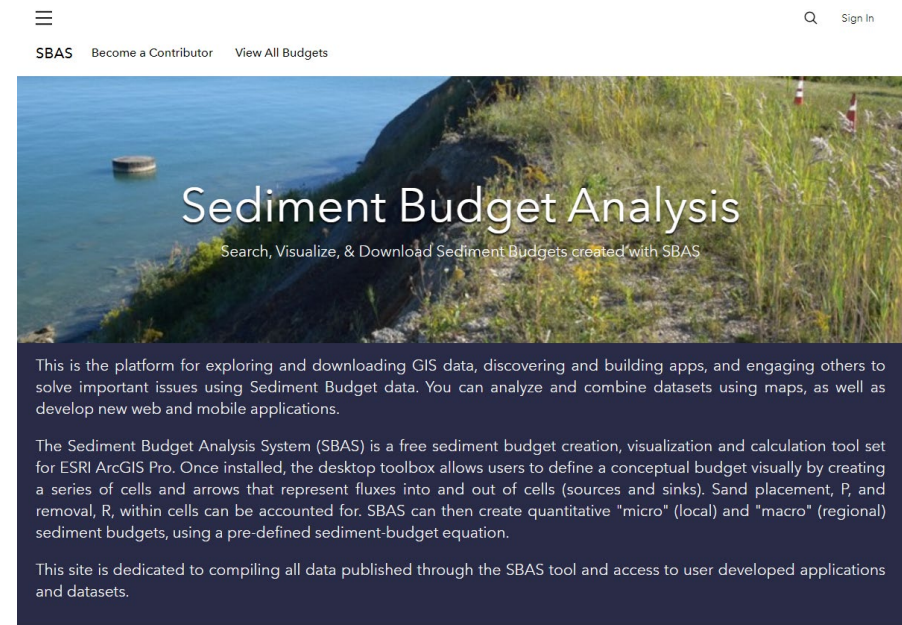
BLUF: Recent updates to the Sediment Budget Analysis System (SBAS) have included compatibility with ArcGIS Pro and integration with results from other USACE tools such as GenCade. With these additions, new training and resources were needed for users of the tool.

Objectives:

- **Develop Training Curriculum**
- **Lead Workshop**
- **Create online ArcGIS hub**

Approach:

- **Workshop during CWG Annual Meeting**
- **Make training videos and guides available**
 - **SBAS User's Guide Wiki Page**
 - **Downloadable Videos**



Recently Uploaded Sediment Budgets

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District/Other USACE PDT Members

- Lauren Dunkin, ERDC-CHL
- Jennifer Wozencraft, ERDC-CHL
- Richard Styles, ERDC-CHL
- Rose Dopsovic, SAM OP-J
- Elizabeth Godsey, SAM
- Rose Dopsovic, Mobile District
- Eve Eisemann, former ERDC-CHL

Leveraging/Collaborative Opportunities:

- Great Lakes Resiliency Index
- CIRP's GenCade tool
- National Coastal Mapping Program (JALBTCX)

Stakeholders/Partners

- Great Lakes & Ohio River Division (LRD)
- South Atlantic Division
 - Jacksonville
 - Mobile



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Accomplishments/Deliverables

- SBAS workshop
- Updated SBAS hub
- Updated Wiki page

Sediment Budget Analysis System (SBAS)

The Sediment Budget Analysis System (SBAS) was developed to provide a framework for formulating, documenting, and calculating sediment budgets, including estimation of uncertainty, and hence, the reliability of the budget. The SBAS is visually based and operates within the Windows operating systems.

SBAS for Arc Pro SBAS for Arc 10

Toolbox

- [SBAS Tool](#)

Documentation

- [SBAS for Arc Pro Tutorial \(Nov 2020\). \[PDF\]](#)
- [SBAS Toolbar User's Guide Wiki Page](#)

Videos

01-Downloading SBAS 2020	02-ArcPro Installation	03-Set Database and Create Alternative
04-Load Alternative	05-Sketch Cells and Fluxes	06-Edit Budget Values
07-Import Existing GIS Files	08-Transfer Values	09-Relate Features and Values
10-Import from Gencade Step 1	11-Import from Gencade Step 2	12-Change Symbology
13-Copy Alternative	14-Delete Alternative	15-Complementary Data
16-Share Sediment Budget		

Coastal Inlets Research Program

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COASTAL AND HYDRAULICS LABORATORY - US ARMY CORPS OF ENGINEERS

SBAS2020 - 05 - Sketch Cells and Fluxes

3 views · Jul 21, 2021

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Eastern Lake Michigan
Adjust zoom extent of map to view details of littoral cells and fluxes by using the +/- tools or selecting a item from the Cell or Flux list.

Littoral Cell
Flux

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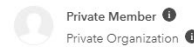


What challenges did you face to get your project to implementation and how did you move past them? If not yet implemented, what is your path forward to construction? What were your lessons learned that you think might benefit other Districts?

- **Ensure that training could be conducted in a virtual environment with minimal interruptions/interference**
- **FY22**
 - **Continue updating user's guide**
 - **Create user's guide SR**
 - **Implement with other projects**

SBAS

SBAS_Eastern_Lake_Michigan



Summary

Eastern Lake Michigan is a Micro sediment budget. This budget is located near Eastern Lake Michigan.

[View Full Details](#)

Dataset
Feature Layer

May 5, 2021
Info Updated

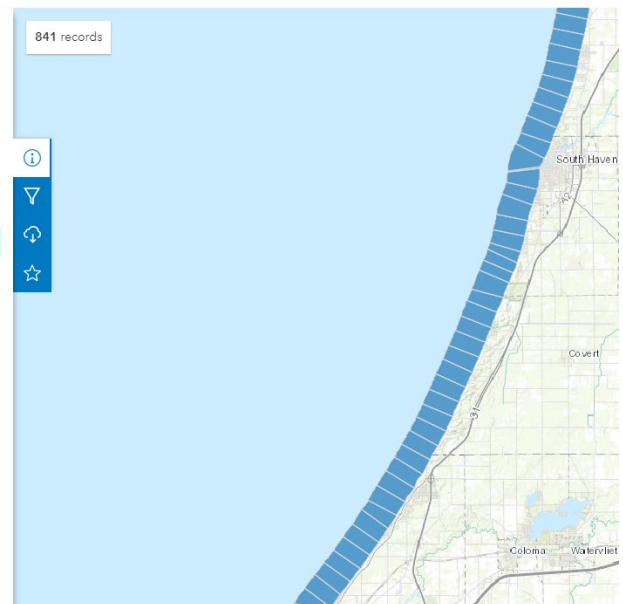
April 30, 2021
Data Updated

April 30, 2021
Published Date

841 Records
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How is this project benefiting the USACE and Nation?

- Improvements to SBAS and trainings over the past year has made the tool more accessible to users.
- Implementation with other USACE projects

