REGIONAL SEDIMENT MANAGEMENT PROGRAM UPDATE

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RSM In-Progress Review and Meeting 15-17 May 2018 Mobile, AL











Regional Sediment Management

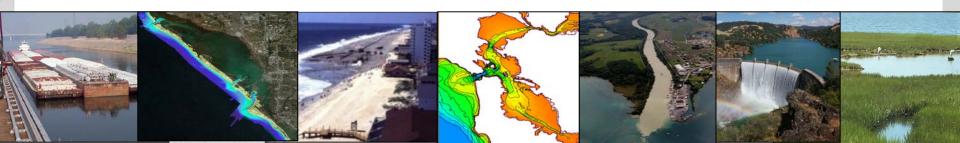
Established 1999, CERB Charge





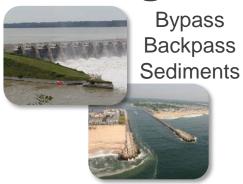
"A systems approach using best management practices for more efficient and effective use of sediments in coastal, estuarine, and inland environments for healthier and more resilient systems."

- Recognizes sediment as a valuable <u>resource</u>
- Work across business lines, projects, and authorities to create short and long-term economically viable and environmentally sustainable solutions
- Improve operational efficiencies and natural exchange of sediments
- Consider regional implications of project scale actions and benefits
- Apply/Enhance tools and technologies for regional approaches
- Share lessons learned, information, data, tools, and technologies
- Communicate and collaborate



RSM Goals and Strategies









Mimic natural sediment processes

Reduce unwanted sedimentation

Environmental enhancement

Maintain & protect infrastructure









RSM Process

4. TAKE ACTION

- -Construct, monitor & adaptively manage
- -Capture benefits & lessons learned
- -Incorporate into standard practice



-Sediment sources, project needs, processes, gaps, engineering actions, ecological considerations

1. UNDERSTAND REGION

-Resources, challenges & requirements



3. REGIONAL RSM STRATEGY

- -Integrate projects into Regional Strategy
- -ID authorities, funding, permit requirements leveraging opportunities
- -Prioritize: need, benefits, timelines

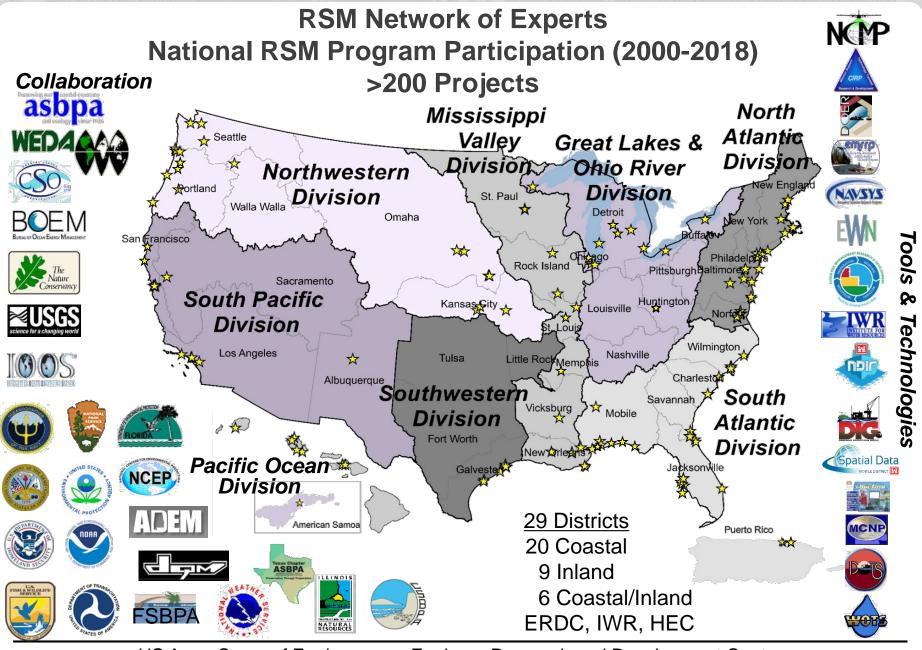


2. EVALUATE RSM STRATEGIES (PROJECT SCALE)

- -Efficient & effective use of sediments
- -Project-level analysis (tools, models, technologies)
- -RSM pilot projects



Communication, Collaboration, Innovation, Decision Making Interagency, Stakeholders, Partners, Resource Agencies



RSM Collaboration: National and Regional Teams



RSM Program Funding Process

- Annual Request for Proposals: Submittals Due **22 June 2018**
- Submittals THROUGH:
 - District RSM POC
 - District Navigation BL Leader
 - MSC RSM POC and MSC Navigation BL Leader
- Submittals TO:
 - HQ, Navigation Business Line Manager
 - ERDC Nat'l RSM Program Manager
- Review Team: Districts (Coastal/Inland OP, PD, EN); HQ CWG/Inland Leads
- Recommend Program/Budget: ERDC RSM PM/Deputy PM & TD Nav
- Approval: HQ Navigation Business Line Manager
- Required from all initiatives
 - Quarterly Progress Reports, Fact Sheets, Present RSM IPR& Workshop
 - Lessons Learned: RSM TN/TRs, Newsletters

FY18 Funded Proposals

ERDC/LRC: Regional Sediment Budget Workflows, Tools, Web Map ERDC: Annual Sediment Yield Ohio River Catchments 1980-2017

LRB: Lake Erie Sediment Budget

LRB: Lake Ontario Sediment Budget

LRC/CHL: UAS Technologies to Monitor Nearshore Placement

LRE/CHL: Sediment Source to Sink Lag Time

LRD: GLTM Program Outreach

NAP: RSM Strategies Along the DE & MD Coasts

NAP/ERDC: Application of GenCade DE & MD Coasts

NAO: James River Federal Navigation Channel RSM

NWK: RSM Effects of Bank Stabilization Kansas River Basin

MVP: Evaluation of Real Time Bedload Transport Chippewa

MVR: Impact of Reservoir Sedimentation on Project Benefits

MVS: Sedimentation Impacts within the St. Louis Harbor Reach

MVS/MVM/ERDC: Chirp Geophysical Data for RSM Goals

MVD/ERDC: Analytic Methods to Reduce the Uncertainties in ISSDOT

SPN: Monitoring Placement Pillar Point Harbor

NWP: Site Selection Framework: Estuary Habitat Restoration

NWP: North Head Argus Station Engineering Projects for RSM

NWP: West Sand Island Shore Stabilization

POH: Kahului Harbor Sediment Infilling

POH: Kahului Harbor Beneficial Use Opportunities

MVN: Sediment Sources Calcasieu Ship Channel

SWG: Utilization and Design for Channel to Victoria BU Sites

SAJ/ERDC: Sediment Sorting During the Dredging Process

**Plus workshops, RSM-U, conferences, outreach, etc.

51 Proposals 28 Funded

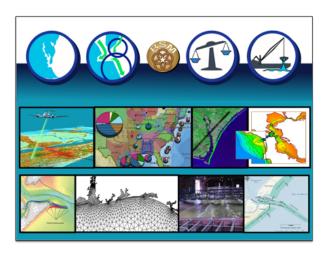
Outreach and Communication (Highlights)

- RSM Website Updates
- Bi-Monthly RSM Web Meetings
- Trifold Pamphlets
- Coastal and Inland Tools & Technologies Brochures
- Environmental Advisory Board Mtg (Jacksonville, FL)
- USACE Nat'l Asset Management Meeting
- BoR International Reservoir Sedimentation & Sustainability Workshop (Denver, CO)
- NAO James River Partnership Meeting (Newport News, VA)
- LRD Great Lakes Tributary Model Workshop (Chicago, IL)
- POH Stakeholder Workshop (Maui, HI)
- ASBPA National Coastal Conference (Fort Lauderdale, FL)
- FSBPA Conference on Beach Preservation Technology (Panama City Beach, FL)
- ASBPA Summit (Washington, DC)
- BOEM Offshore Sand Sources Workshops
- SuperRARG (Vicksburg, MS)
- CSEC Meeting (Beaumont, TX)
- Storms Workshop (St. Petersburg, FL)
- Executive Governance Meeting (Vicksburg, MS)
- RSM-U LRD Sediment Budget Workshop/Training
- RSM-U Reservoir Sediment Management (Lawrence, KS)
- RSM-U Sediment Tracer Workshop (Great Lakes)
- EAB Meeting in Kansas City
- Natural Infrastructure Initiative with EWN and CAT
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FY18: Volume I, Coastal

Regional Sediment Management Tools and Technologies

Volume I . Coastal . February 2018







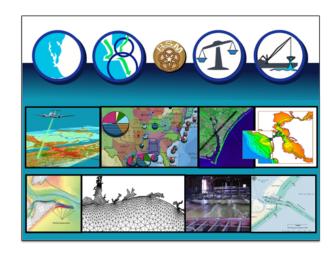
Regional Sediment Management: Integrated Solutions for Sediment Related Challenges

FY18: Volume II, Inland

DRAFT MAY 3 2018

Regional Sediment Management Tools and Technologies

Volume II • Inland • May 2018







Regional Sediment Management: Integrated Solutions for Sediment Related Challenges

RSM Technical Notes, Reports Manuals





Published

74 RSM Technical Notes24 RSM Technical Reports

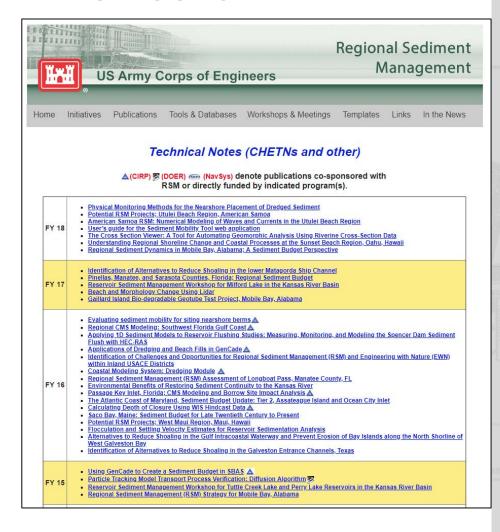
In Publication

10 RSM Technical Notes5 RSM Technical Reports

Other

Journal Articles
Conference Papers and Briefs
Newsletter Articles

RSM.USACE.ARMY.MIL



ASBPA Summit 2018

Linda Lillycrop





1st RSMmy Awards

Outstanding Collaboration and Outreach
Innovative Technical Achievement
Exceptional Team Achievement
RSMer of the Year
District of the Year
Lifetime Achievement



And the RSMmy goes to....



Complete RSM Tasks and Submit Products: 30 Sept 2018



**No FY18 Carry Over