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Engineer Research and
Development Center

Publications of the U.S. Army Engineer Research and Development Center

Appendix D: FY19 (October 2018-September 2019)

Compiled by James A. Dolan

November 2019

The U.S. Army Engineer Research and Development Center (ERDC) solves the nation's toughest engineering and environmental challenges. ERDC develops innovative solutions in civil and military engineering, geospatial sciences, water resources, and environmental sciences for the Army, the Department of Defense, civilian agencies, and our nation's public good. Find out more at www.erdclibrary.erdcdren.mil/.

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Publications of the U.S. Army Engineer Research and Development Center

Appendix D: FY19 (October 2018-September 2019)

Compiled by James A. Dolan

*Information Technology Laboratory
U.S. Army Engineer Research and Development Center
3909 Halls Ferry Road
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Final report

Approved for public release; distribution is unlimited.

Prepared for U.S. Army Engineer Research and Development Center
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Abstract

Publications issued October 2018 through September 2019 by the U.S. Army Engineer Research and Development Center (ERDC) are listed. The publications are grouped according to the technical laboratories or technical program for which they were prepared. Procedures for obtaining ERDC reports are included in the Preface.

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Preface

The purpose of this report is to provide an annual update of existing literature produced by the U.S. Army Engineer Research and Development Center (ERDC). Publications issued October 2018 through September 2019 are listed herein. The publications are grouped according to the technical laboratories and/or technical programs for which they were prepared.

ERDC publications containing the statement “Approved for Public Release; Distribution is Unlimited” are available electronically by clicking on the Digital Object Identifier (DOI) link located under each report or from the ERDC Library’s digital repository at <https://erdc-library.erdcdren.mil/>. A footnote by the report number denotes a limited distribution report. Limited distribution reports are available to qualified agencies from the Defense Technical Information Center (DTIC) at www.dtic.mil. For ordering purposes and when available, Accession Document (AD) numbers have been supplied.

When electronic access is not an option, library-to-library loaning is available through Online Computer Library Center (OCLC). The ERDC Library’s OCLC symbol is AERDC. Requestors should contact their local library for interlibrary loans. The ERDC Library does not loan directly to individuals. The loaning of limited distribution reports is at the discretion of the ERDC Library and only if the requestor meets the qualifications of the report’s limited distribution statement.

This report was compiled by the U.S. Army Engineer Research and Development Center, Information Technology Laboratory (ERDC-ITL), under the general supervision of Ms. Molly S. McManus, Chief, Information Science and Knowledge Management Branch, ITL; Mr. Ken Pathak, Chief, Software Engineering and Informatics Division, ITL; Ms. Patti S. Duett, Deputy Director, ITL; and Dr. David A. Horner, Director, ITL.

At the time of publication, COL Teresa A. Schlosser was the Commander of ERDC. Dr. David W. Pittman was the Director.

1 Engineer Research and Development Center (ERDC)

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
¹ ERDC SR-18-4	Nov 2018	Geotechnical Assessment of Sinkholes at Fort Jackson, Columbia, South Carolina, by G.A. Riveros, J.R. Kelley, and D.W. Harrelson	AD1081139
ERDC SR-19-1	Feb 2019	Geospatial Accuracy of Small Unmanned Airborne System Data in the Coastal Environment, by R.L. Fischer, J.G. Ruby, A.J. Armstrong, J.D. Edwards, N.J. Spore, and K.L. Brodie http://dx.doi.org/10.21079/11681/32302	AD1067894

Technical Notes

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC TN-19-1-	Feb 2019	Thin Layer Placement: Technical Definition for U.S. Army Corps of Engineers Applications, by J.F. Berkowitz, C. Piercy, T. Welp, and C. VanZomeren http://dx.doi.org/10.21079/11681/32283	AD1067526

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC TR-14-6 Rpt. 3	Apr 2019	Development of the Particle-Scale Definition of Stress and Strain for the Discrete Element Method: Report 3 in "Discrete Nano-Scale Mechanics and Simulations" Series, by W.D. Hodo, J.F. Peters, L.E. Walizer, D.P. McInnis, and A.R. Carrillo http://dx.doi.org/10.21079/11681/32572	AD1071284
¹ ERDC TR-18-16	Oct 2018	Geology of the Negev Tunnel Test Site, Near Kerem Shalom, Israel, by K.B. Parkman, J.B. Dunbar, L.J. Perren, R.E. North, and A.L. Tillotson	AD1063036

¹ Limited distribution; see Preface.

ERDC TR-18-18	Nov 2018	Corrosion Inhibitive Hygroscopic Organic-Based Dust Palliatives: Final Report on Project F12-AR11, by S.W. Morefield, J.K. Newman, C.A. Weiss Jr., C.C. Thomas, and P.G. Malone http://dx.doi.org/10.21079/11681/29970	AD1081140
ERDC TR-18-19	Nov 2018	Simulated Vehicle Decontamination and Field Evaluation of the Decontamination Effluent Treatment System (DETS), 27 June 2017, and Associated Background Studies, by V.F. Medina, S.A. Waisner, E. Martinez-Guerra, J. Johnson, J. Brame, E. Gao, and M. Page http://dx.doi.org/10.21079/11681/30641	AD1076433
¹ ERDC TR-18-20	Dec 2018	Transmitter Enhancement to R2TD EMI for Tunnel Detection: Evaluation of Cable-Loop TX Compared to Existing R2TD EMI Puck TX, by L.J. Perren, K.B. Parkman, E.W. Smith, J.D. Ables, and J.R. Picucci	AD1065762
ERDC TR-19-1	Jan 2019	Using EASEE's Acoustical Calculations in MATLAB, by D.K. Wilson, R.E. Alter, K.M. Burch, and M.E. Swearingen http://dx.doi.org/10.21079/11681/32009	AD1081189
ERDC TR-19-2	Jan 2019	Deep Installation Method for Three-Component Seismic Sensors, by A.P. Lester, E.P. Simpson, G.J. Rigaud, and J.R. Picucci http://dx.doi.org/10.21079/11681/32271	AD1067420
ERDC TR-19-3	Jan 2019	Cross-Comparison of Advanced Oxidation Processes for Remediation of Organic Pollutants in Water Treatment Systems, by E.K. Ambroggi, E. Asenath-Smith, W.A. Ballard, L.C. Moores, and J.A. Brame http://dx.doi.org/10.21079/11681/32319	AD1068199
ERDC TR-19-4	Feb 2019	Trends in the USACE Ocean Disposal Database (1976-2015), by J.L. Wilkens, B.C. Suedel, and K.N. Mitchell http://dx.doi.org/10.21079/11681/32351	AD1068672
¹ ERDC TR-19-5	Mar 2019	Ground Resistivity Imaging System (GRIS): Evaluation of COTS GRIS Technology for Void Detection in Expeditionary and Persistent Modes of Deployment, by L.J. Perren, K.B. Parkman, E.W. Smith, J.R. Picucci, and E.P. Simpson	AD1069137
ERDC TR-19-6	Jun 2019	Improved Levee Resilience Through Soil Application of a Natural Organic Polymer; Field Study: Kaufman Levee No. 1, by S.L. Larson, M.K. Corcoran, D.B. Gent, A.D. Butler, and C.C. Nestler http://dx.doi.org/10.21079/11681/33068	AD1081304

¹ Limited distribution; see Preface.

ERDC TR-19-7	May 2019	Numerical Simulation of Biological Structures: Paddlefish Rostrum, by F.J. Acosta, G.A. Riveros, R.R. Patel, and W.D. Hodo http://dx.doi.org/10.21079/11681/32749	AD1081195
ERDC TR-19-8	Jun 2019	Rapid Airfield Damage Recovery Technology Integration Experiment, by H.P. Bell, B.C. Cox, L. Edwards, L.I. Garcia, N.R. Hoffman, M. Mejías-Santiago, and J.L. Johnson http://dx.doi.org/10.21079/11681/33049	AD1081305
ERDC TR-19-9	Jul 2019	Additive Manufacturing of Metallic Materials with Controlled Microstructures: Multiscale Modeling of Direct Metal Laser Sintering and Directed Energy Deposition, by Z.B. McClelland, J.D. Shannon, R.D. Moser, J.B. Allen, A. Tekalur, M. Killian, J. Carroll, J. Kallivayalil, B. Schultheis, and A. Chaudhary http://dx.doi.org/10.21079/11681/33481	AD1076544
ERDC TR-19-10	Jun 2019	Development of Deceleration-based Runway Friction Measurement Methods, by A.B. Ward, C.A. Rutland, and J.S. Tingle http://dx.doi.org/10.21079/11681/33333	AD1076083
ERDC TR-19-11	Jun 2019	Assessment of LiDAR- and Photogrammetry-based Airfield Roughness Profiling Techniques, by A.B. Ward, J.K. Newman, and G.B. Herring IV http://dx.doi.org/10.21079/11681/33370	AD1081201
¹ ERDC TR-19-12	Jun 2019	Remote Assessment from LiDAR and Radar for Airfield Surface Analysis, by S.S. Jackson, S.G. Bourne, T.E. Berry, and J.K. Newman	AD1076139
ERDC TR-19-13	Jun 2019	Urban Terrain Data Availability and Gaps, by J.L. Boone, L.R. Breithaupt, M.T. Stevens, B.T. Webb, J.G. Green, J.R. Fairley, and S.J. Price http://dx.doi.org/10.21079/11681/33387	AD1076236
¹ ERDC TR-19-14	Jul 2019	Characterization of Unfrozen Dry Poorly Graded Sand with Silt (SP-SM) in Unfrozen and Frozen Buried Blast Experiments, by T.N. Williams, S.A. Akers, S.S. Graham, K.J. Ratliff, and A.P. Bernier	AD1076521
¹ ERDC TR-19-15	Jul 2019	Vehicle-Borne Improvised Explosive Device (VBIED) Experiments: Results of IRON WARRIOR Experiments I – IV, by J.E. Payne, Z.K. Crosby, D.L. Vaughan, J.Q. Ehrgott, Jr., D.D. Rickman, A.R. Jackson, B. Herring, J.E. Windham, D.P. Danko, R.L. Talbott, Jr., C.W. Crowder, and T.A. Waddell	AD1081823

¹ Limited distribution; see Preface.

ERDC TR-19-16	Jul 2019	Feasibility of Discontinuous Quoin Blocks for USACE Miter Gates, by B.A. Eick, M.D. Smith, and T.B. Fillmore http://dx.doi.org/10.21079/11681/33490	AD1077359
¹ ERDC TR-19-17	Jul 2019	Results of Underbelly Blast Experiments and Simulations to Quantify Effects of Frozen Soil on Aboveground Impulse, by G.K. Doles, N.T. Williams, J.Q. Ehrgott, Jr., S.A. Shoop, R.L. Jeffers, and J.L. Morrow	AD1077674
¹ ERDC TR-19-18	Jul 2019	Evaluation of the Effects of Explosive Charge Tamping on Cratering: Results and Analyses of Flat-Terrain and Embankment Tests, by G.K. Doles, D.D. Rickman, S.D. Turner, J.L. Morrow, and J.M. Brown	AD1078472
¹ ERDC TR-19-19	Aug 2019	Barrier and Shelter Performance – Iron Warrior Experiment 1, by C.S. Stephens, O.G. Flores, R.E. Walker, C.E. Grey, and J.S. Davidson	AD1078025
¹ ERDC TR-19-20	Aug 2019	Ground Resistivity Imaging System (GRIS) Phase II: Evaluation of the COTS GRIS Technology for Void Detection Using Both COTS Surface Electrodes and Prototype Subsurface Electrodes, by K.B. Parkman, L.J. Perren, I.J. Stephens, D.R. Glaser, E.W. Smith, J.R. Picucci, and E.P. Simpson	AD1078139
ERDC TR-19-21	Aug 2019	A High-throughput Method for Counting Cyanobacteria Using Fluorescence Microscopy, by K. Pokrzywinski, B. Boyd, and J. Smith http://dx.doi.org/10.21079/11681/33870	AD1079243
¹ ERDC TR-19-22	Aug 2019	Additive Manufacturing Processes Enabled by Multi-Scale Simulation, by J. Kallivayalil, A. Tekalur, J. Carroll, M. Killian, B. Schultheis, A. Chaudhary, Z.B. McClelland, J.B. Allen, J.D. Shannon, and R.D. Moser	AD1079636
ERDC TR-19-23	Sep 2019	Projecting Shifts in Human and Ecological Zones, by K.A. Cotterman, J.D. Westervelt, J.M. Roningen, and A.M. Rhodes http://dx.doi.org/10.21079/11681/34094	AD1080494
ERDC TR-19-24	Sep 2019	Analyzing the St. Marys Rapids for Suitable Fish Habitat: An Engineering with Nature® Demonstration Project, by T.J. Calappi, K.A. Labuhn, P.S. Fowler, B.C. Suedel, J.L. Wilkens, G. Savant, M. Bachand, and G. Guénard http://dx.doi.org/10.21079/11681/33990	AD1079972

¹ Limited distribution; see Preface.

ERDC TR-19-25	Sep 2019	Optimizing Maximally Stable Extremal Regions (MSER) Parameters Using the Particle Swarm Optimization Algorithm, by J.E. Davis, A.E. Bednar, and C.T. Goodin http://dx.doi.org/10.21079/11681/34160	AD1080875
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2 Coastal and Hydraulics Laboratory (CHL)

Contract reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CR-19-1	May 2019	Practical Resilience Metrics for Coastal Infrastructure Features, by B.M. Ayyub http://dx.doi.org/10.21079/11681/32889	AD1073955

Letter reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>
¹ ERDC/CHL LR-19-1	Mar 2019	Digitizing Port Characteristics Remotely Using the Port Operations Rating Tool, by B.H. Hargis, A. Stehno, A.R. Byrd, C. LaHatte, D. Brown, and J.L. Gutenson
¹ ERDC/CHL LR-19-2	Mar 2019	Operational Scenarios Designed to Test the Planning Logistics Analysis Network System (PLANS), by B. Hargis, J. Fowler, P. Holder, and J. Strickler
¹ ERDC/CHL LR-19-4	May 2019	Fundamental Analysis of Environmental Stressors on Port Logistics within the Port Operations Rating Tool (PORT), by K.A. Cotterman and B.H. Hargis
¹ ERDC/CHL LR-19-6	Feb 2019	Charleston Harbor Wave Climate and Vessel Wake Data Collection and Analysis: For the Charleston District of the USACE South Atlantic Division, by B.M. Scully, R. Styles, J. Smith, and M. Hartman
¹ ERDC/CHL LR-19-8	Jul 2019	Tacoma Harbor Feasibility Ship Simulation Study Report, by M.M. Johnston
¹ ERDC/CHL LR-19-10	Jul 2019	DOTS: Assessment of Wind-Waves for the Mordecai Island, New Jersey Vicinity, by M.A. Bryant and B. Boyd
¹ ERDC/CHL LR-19-12	Jun 2019	State of Hawaii – Navigation Information System: For the Honolulu District of the USACE Pacific Ocean Division, by P.K. DiJoseph, D. Arnold, A. Byrd, B. Hargis, and B. Tetreault (USACE-ERDC-CHL), S. Dale, A. Liu (HI-DOT), T. Smith, M. Yoshimoto (USACE-POH), Hawaii Pilots Association

¹ Limited distribution; see Preface.

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL SR-18-3	Nov 2018	Continuously Operating Dune-Mounted Lidar System at the Field Research Facility: A Report Detailing Lidar Collection, Processing, Evaluation, and Product Development, by K.L. Brodie, A.T. Dyer, N.J. Spore, R.K. Slocum, A.M. O'Dea, E.T. Whitesides, and A.D. Renaud http://dx.doi.org/10.21079/11681/30836	AD1081467
ERDC/CHL SR-18-4	Dec 2018	USACE-ERDC Coastal System Resilience Research, by K.F. Touzinsky and J.D. Rosati http://dx.doi.org/10.21079/11681/31353	AD1065722
ERDC/CHL SR-19-1	Jan 2019	Quantification of Uncertainty in Probabilistic Storm Surge Models: Literature Review, by V.M. Gonzalez, N.C. Nadal-Caraballo, J.A. Melby, and M.A. Cialone http://dx.doi.org/10.21079/11681/32295	AD1067548
ERDC/CHL SR-19-2	Apr 2019	Literature Review of Nearshore Berms, by K.E. Brutsche, B.C. McFall, D.B. Bryant, and P. Wang http://dx.doi.org/10.21079/11681/32509	AD1070335
ERDC/CHL SR-19-3	Jun 2019	Strategic Placement for Beneficial Use of Dredged Material, by J. Gailani, K.E. Brutsché, E. Godsey, P. Wang, and M.A. Hartman http://dx.doi.org/10.21079/11681/33169	AD1075332
ERDC/CHL SR-19-4	Jun 2019	Coastal Lidar and Radar Imaging System (CLARIS) Lidar Data Report: 2011 – 2017, by N.J. Spore, A.D. Renaud, I.W. Conery, and K.L. Brodie http://dx.doi.org/10.21079/11681/33377	AD1076355
ERDC/CHL SR-19-5	Jul 2019	Field Research Facility: A User's Guide to the Survey Lines Dataset, by W.A. Birkemeier and M.F. Forte http://dx.doi.org/10.21079/11681/33653	AD1077984
ERDC/CHL SR-19-6	Aug 2019	Review of Coastal Tidal Inlet Morphodynamics in the Context of Barrier-Inlet Sustainability, by T.M. Beck http://dx.doi.org/10.21079/11681/33788	AD1078459

Technical notes

Section I – Waves and coastal flooding

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-I-95	Nov 2018	Profiling and Optimization of FUNWAVE-TVD on High Performance Computing (HPC) Machines, by M.Y.-H. Lam, M. Malej, F. Shi, and K. Ghosh http://dx.doi.org/10.21079/11681/30037	AD1081206
ERDC/CHL CHETN-I-96	Jun 2019	Simulation of Coastal Storm Surge and Rainfall Flooding Scenarios at Camp Lejeune with GSSHA, by N. Raj Pradhan, C.W. Downer, S.N. Sinclair, and C. LaHatte http://dx.doi.org/10.21079/11681/33185	AD1076105
ERDC/CHL CHETN-I-97	Aug 2019	The Coastal Model Test Bed Initialization and Setup: CMS-Wave, by S. Bak, Z. Demirebilek, and L. Lin http://dx.doi.org/10.21079/11681/33643	AD1078452
ERDC/CHL CHETN-I-98	Aug 2019	Coastal Modeling System: Dredging Module Simulation with Multiple Grain Sizes, by C.W. Reed and M.E. Brown http://dx.doi.org/10.21079/11681/33664	AD1078577

Section III – Coastal structures

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-III-81	Nov 2018	Assessing Jetty Effectiveness via Statistical Analysis of AIS Data, by D.L. Young and B.M. Scully http://dx.doi.org/10.21079/11681/30030	AD1081207

Section IV – Inlets and estuary channels

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-IV-113	Nov 2018	Initialization and Setup of the Coastal Model Test Bed: Integrated Bathymetry, by D.L. Young, A.S. Bak, and M.F. Forte http://dx.doi.org/10.21079/11681/30023	AD1069565
ERDC/CHL CHETN-IV-114	Jan 2019	Design and Deployment of Mini-Argus Systems for Rapid Coastal Imaging, by B. Bruder, K. Hathaway, K. Brodie, and S. Harrison http://dx.doi.org/10.21079/11681/31463	AD1067054

ERDC/CHL CHETN-IV-115	Mar 2019	Initialization and Setup of the Coastal Model Test Bed: CSHORE, by D.L. Young, A.S. Bak, and B.D. Johnson http://dx.doi.org/10.21079/11681/32387	AD1069565
ERDC/CHL CHETN-IV-116	Apr 2019	Post-Irma Unmanned Aircraft System (UAS) Coastal Storm Impact Surveys, by K. Brodie, N. Spore, B. Bruder, A. Renaud, T. Hesser, V. Wilhelm, and K. Hodgins http://dx.doi.org/10.21079/11681/32463	AD1070326
ERDC/CHL CHETN-IV-117	Apr 2019	Basic Logic for the Construction of an AdH Estuarine Model, by J. McAlpin and J. Sharp http://dx.doi.org/10.21079/11681/32543	AD1071953
ERDC/CHL CHETN-IV-118	May 2019	U.S. Tidal Inlets Atlas: An Update to the CIRP Inlets Database, by T.M. Beck and D. Arnold http://dx.doi.org/10.21079/11681/32666	AD1073564
ERDC/CHL CHETN-IV-119	Jun 2019	Modeling Sea Level Change Using the Coastal Modeling System, by H. Li and M.E. Brown http://dx.doi.org/10.21079/11681/33204	AD1076201

Section V – Coastal ecology

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-V-24	Sep 2019	Validation of Numerical Modeling for Flows near Draghead in Operation, by M.M. Johnston, A. Hammack, and D.L. Smith http://dx.doi.org/10.21079/11681/33923	AD1080036

Section VI – Miscellaneous coastal subjects

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-VI-48	Nov 2018	An Interagency Collaboration to Identify Federal Resilience Factors for the U.S. Marine Transportation System, by K. Touzinsky, L. Knapp, and A. Renaud http://dx.doi.org/10.21079/11681/30140	AD1081208
ERDC/CHL CHETN-VI-49	Jan 2019	Coastal Resilience Metrics from Beach-fx, by M. Durkin and K. Chambers http://dx.doi.org/10.21079/11681/31462	AD1066589
ERDC/CHL CHETN-VI-50	Feb 2019	Historical Analysis of the Change in Percent Fines during Beach Nourishment, by J.L. Coor and J.D. Ousley http://dx.doi.org/10.21079/11681/32912	AD1074732

Section VII – River engineering and sedimentation

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-VII-20	May 2019	Modeling Ship-Wake-Induced Sediment Transport and Morphological Change - Sediment Module in FUNWAVE-TVD, by M. Malej, F. Shi, and J.M. Smith http://dx.doi.org/10.21079/11681/32911	AD1074624
ERDC/CHL CHETN-VII-21	Jun 2019	Overview of Historical Reservoir Flushing Events and Screening Guidance, by T.A. Dahl and M. Ramos-Villanueva http://dx.doi.org/10.21079/11681/33003	AD1075972

Section VIII – Flood management

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-VIII-12	Jan 2019	Impact of Mud Aggregate Processes in Sediment Transport Studies, by D.W. Perkey and S.J. Smith http://dx.doi.org/10.21079/11681/32005	AD1067500

Section IX – Navigation

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-IX-47	Nov 2018	Methodology Supporting Civil Works Implementation of Tainter Gate Trunnion Friction Structural Health Monitoring, by M.D. Smith and T.B. Fillmore http://dx.doi.org/10.21079/11681/29975	AD1081211
ERDC/CHL CHETN-IX-48	Dec 2018	Methodology Supporting Civil Works Implementation of Trunnion Rod Testing, by M.D. Smith and T.B. Fillmore http://dx.doi.org/10.21079/11681/30773	AD1081213
ERDC/CHL CHETN-IX-49	Jun 2019	Guided Wave Testing of Trunnion Rods at West Point Dam, Georgia, by J.D. Ray, R.W. Haskins, and J.A. Evans http://dx.doi.org/10.21079/11681/33244	AD1076218
ERDC/CHL CHETN-IX-50	Aug 2019	Lock Operations Management Application (LOMA) Aid to Navigation (AtoN) Monitoring and Recovery (LAMaR), by J.H. Farrar, M.F. Winkler, and J. Whitlow http://dx.doi.org/10.21079/11681/33629	AD1078561

Section XII – Hydroinformatics

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL CHETN-XII-1-	Aug 2019	Reducing Uncertainty and Improving Precision in Coincident Geospatial Datasets Using Weight-of-Evidence: Part 1, by J. Cegan, M. Wood, I. Linkov, and D.A. Loney http://dx.doi.org/10.21079/11681/33663	AD1078595

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CHL TR-18-15	Oct 2018	CSTORM-MS Storm Surge and Wave Modeling Comparison for Proposed Dyke Marsh Promontory Restoration, by T.C. Massey, Y. Ding, M. Owensby, G. Slusarczyk, and M.A. Bryant http://dx.doi.org/10.21079/11681/29863	
ERDC/CHL TR-18-16	Nov 2018	Corps Shoaling Analysis Tool: Predicting Channel Shoaling, by L.M. Dunkin, L.A. Coe, and J.J. Ratcliff http://dx.doi.org/10.21079/11681/30382	AD1081215
ERDC/CHL TR-18-17	Dec 2018	Hydraulic Modeling of Extreme Flows for the White Sands Missile Range Using Adaptive Hydraulics (AdH), by G.L. Bell, J.A. Sharp, J.W. Lewis, G. Savant, and J.N. McAlpin http://dx.doi.org/10.21079/11681/31337	AD1081379
ERDC/CHL TR-18-18	Dec 2018	Physical Model Analysis of the Foster Joseph Sayers Dam, by B. Burnham, M. Thomas, and J. Vaughan http://dx.doi.org/10.21079/11681/31365	AD1065772
ERDC/CHL TR-19-1	Jan 2019	Addressing Nearshore Placement near Lake Worth Inlet, Florida, by A. Condon, K. Legault, and B. McFall http://dx.doi.org/10.21079/11681/31598	AD1066375
ERDC/CHL TR-19-2	Mar 2019	Mississippi River Hydrodynamic and Delta Management Study: Delta Management Modeling: AdH/SEDLIB Multi-Dimensional Model Validation and Scenario Analysis Report, by G.L. Brown, J.N. McAlpin, K.C. Pevey, P.V. Luong, C.R. Price, and B.A. Kleiss http://dx.doi.org/10.21079/11681/32446	AD1081387

ERDC/CHL TR-19-3	Feb 2019	Numerical Model Study of the Flows around Pile Dikes and Conventional Rock Dikes in the Columbia River, by A. Hammack, M.M. Johnston, and D.S. Smith http://dx.doi.org/10.21079/11681/32273	AD1081391
ERDC/CHL TR-19-4	May 2019	Storm Recurrence Rate Models for Tropical Cyclones: Report 1, by N.C. Nadal-Caraballo, V.M. Gonzalez, and L. Chouinard http://dx.doi.org/10.21079/11681/32824	AD1073835
ERDC/CHL TR-19-5	May 2019	Charleston, South Carolina, Navigation Study: Charleston Harbor Deepening and Widening Ship Simulation Results, by D.W. Webb, K. Martin, and G.C. Lynch https://dx.doi.org/10.21079/11681/32750	AD1073500
ERDC/CHL TR-19-6	May 2019	Hydraulic Analysis of the Pickwick Lock Culvert Valves, by A. Hammack, D.S. Smith, M. Thomas, J.M. Vaughan, and M.M. Johnston http://dx.doi.org/10.21079/11681/32845	AD1073991
ERDC/CHL TR-19-7	May 2019	A Review of RSM Implementation Strategies and Recommendations for Ecosystem Restoration in Tampa Bay, Florida, by A. Hershorin, T. Ledford, B. Nist, M. Schrader, C. McCoy, B. Martin, and L. Lillycrop http://dx.doi.org/10.21079/11681/32843	AD1073913
ERDC/CHL TR-19-8	May 2019	Design Water Levels and Waves for Repairs of Buffalo Harbor North and South Breakwaters and LaSalle Park Seawall, Buffalo, New York, by Z. Demirbilek, L. Lin, O.G. Nwogu, W.P. Cross, C.M. O'Connell, S. Chader, M.C. Mohr, G.K. Hintz, S.E. Hint, and M.G. Draganac http://dx.doi.org/10.21079/11681/33024	AD1081395
ERDC/CHL TR-19-9	Jun 2019	Coastal Texas Region 1 (CTR1) Estuarine Numerical Modeling Report, by J. McAlpin, C. Ross, and J. McKnight http://dx.doi.org/10.21079/11681/33104	AD1081396
ERDC/CHL TR-19-10	Jun 2019	Houston Ship Channel and Vicinity Three-Dimensional adaptive Hydraulics (AdH) Numerical Model Calibration/Validation Report, by J. McAlpin, C. Ross, and J. McKnight http://dx.doi.org/10.21079/11681/33063	AD1074758
ERDC/CHL TR-19-11	Jun 2019	Beneficial Use of Dredged Material with Increased Fine Sediment Content: A Case Study at Egmont Key, Florida, by K.E. Brutsché, C.K. Maglio, Z.J. Tyler, J.D. Ousley, and P. Wang http://dx.doi.org/10.21079/11681/33363	AD1076140

ERDC/CHL TR-19-12	Jun 2019	Houston Ship Channel Expansion Channel Improvement Project (ECIP) Numerical Modeling Report, by J. McAlpin, J. McKnight, and C. Ross http://dx.doi.org/10.21079/11681/33334	AD1081222
ERDC/CHL TR-19-13	Aug 2019	Sediment Budget for the North Illinois Shore from the Wisconsin Border to Wilmette Harbor, by A. Morang, L.M. Dunkin, D.F. Bucaro, J.A. Wethington, M.J. Chrzastowski, and E.J. Theuerkauf http://dx.doi.org/10.21079/11681/33679	AD1078236
ERDC/CHL TR-19-14	Aug 2019	Probabilistic Flood Hazard Assessment Framework Development: Extreme Rainfall Analysis, by B.E. Skahill and J. Kanney http://dx.doi.org/10.21079/11681/33883	AD1079322
ERDC/CHL TR-19-15	Sep 2019	Inland Marine Transportation System Travel Time Atlas via Automatic Identification System (AIS) Data: Ohio River, Upper Mississippi River, and Illinois River, by P. DiJoseph, K.N. Mitchell, B.J. Tetreault, and J. Marshall http://dx.doi.org/10.21079/11681/34083	AD1080408
ERDC/CHL TR-19-16	Sep 2019	Calcasieu Lock Navigation Study, Louisiana: Calcasieu Lock Diversion Channel Ship Simulation Report, by M.M. Johnston http://dx.doi.org/10.21079/11681/34185	AD1081295
ERDC/CHL TR-19-17	Sep 2017	Norfolk Harbor Improvement Study, Virginia: Norfolk Harbor Deepening and Widening Ship Simulation Results, by S.K. Martin and D.W. Webb http://dx.doi.org/10.21079/11681/34186	AD1081300

3 Cold Regions Research Engineering Laboratory (CRREL)

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CRREL SR-19-1	May 2019	CRREL Environmental Wind Tunnel: Characteristics and Capabilities, by M.J. Torres, A.R. Stott, S.L. LeGrand, and M. Reilly-Collette http://dx.doi.org/10.21079/11681/32733	AD1073391
¹ ERDC/CRREL SR-19-2	Jun 2019	Environmental Awareness for Sensor and Emitter Employment (EASEE): Strategic Plan and Implementation, by D.K. Wilson, S.E. Kopczynski, M.A. Niccolai, and L.E. Waldrop	AD1076302
ERDC/CRREL SR-19-3	Jun 2019	Analysis of Recent Support-Column Survey Results for the Elevated Facility at Amundsen-Scott South Pole Station, by G. Blaisdell, J. Weale, and L. Barna http://dx.doi.org/10.21079/11681/33184	AD1075381

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CRREL TR-18-18	Oct 2018	Comprehensive Approach for Monitoring and Remediating Petroleum-Derived Contaminants in the Arctic: Case Study of the Former NARL Site near Utqiagvik, Alaska (Formerly Barrow), by K.L. Bjella, R.A. Barbato, A.M. Wagner, A.J. Barker, S.J. Doherty, K.L. Foley, R.M. Jones, C.A. Hiemstra, A.B. Gelvin, and S.P. Saari http://dx.doi.org/10.21079/11681/29611	AD1081224
¹ ERDC/CRREL TR-18-19	Dec 2018	Energy Efficiency through Waste-Heat Recovery, by M.W. Parker, M.I. Reilly-Coullette, A.R. Stott, and C.R. Williams	AD1069294
ERDC/CRREL TR-18-20	Oct 2018	Terrestrial Geospatial Remote Assessment for Ingress Locations (Terrestrial GRAIL), by S.A. Shoop and W.L. Wieder http://dx.doi.org/10.21079/11681/29927	AD1081240

¹ Limited distribution; see Preface.

ERDC/CRREL TR-18-21	Dec 2018	Evaluation of Insulated Pavements to Prevent Frost Damage, by M.J. Torres, A.R. Stott, and M.I. Reilly-Collette http://dx.doi.org/10.21079/11681/31449	AD1081244
ERDC/CRREL TR-19-1	Jan 2019	Microstructural Characterization of Snow Compaction Related to Snow Pavements, by Z.R. Courville, R.M. Lieblappen, T.D. Melendy, and A.P. Bernier http://dx.doi.org/10.21079/11681/31442	AD1081247
ERDC/CRREL TR-19-2	Feb 2019	Evaluation of Airfield Damage Repair Methods for Extreme Cold Temperatures, by E. Asenath-Smith, T.D. Melendy, Jr., A.M. Menke, A.P. Bernier, and G.L. Blaisdell http://dx.doi.org/10.21079/11681/32298	AD1081350
ERDC/CRREL TR-19-3	May 2019	Evaluation of Modeled and Reanalysis Estimates of Frost Depth through Comparison to Ground Observations, by L. Barna, C. Vuyovich, and K. Jones http://dx.doi.org/10.21079/11681/32730	AD1073394
ERDC/CRREL TR-19-4	May 2019	A Snow Runway for Supporting Wheeled Aircraft: Phoenix Airfield, McMurdo, Antarctica, by R.B. Haehnel, G.L. Blaisdell, T. Melendy, S. Shoop, and Z. Courville http://dx.doi.org/10.21079/11681/32731	AD1073325
ERDC/CRREL TR-19-5	May 2019	Using the Light Weight Deflectometer to Assess Groomed Snow and Ice Surfaces, by W.L. Wieder, S.A. Shoop, and L. Barna http://dx.doi.org/10.21079/11681/32732	AD1073272
ERDC/CRREL TR-19-6	May 2019	Physical Properties of Highly Organic Soils and Their Importance to Mobility Considerations, by S. Frankenstein and M.W. Parker http://dx.doi.org/10.21079/11681/32923	AD1081351
ERDC/CRREL TR-19-7	Jun 2019	Geophysical Investigation at Eielson Air Force Base, Alaska: Subsurface Features Influencing Building 6385, by G. Speeter, K. Bjella, S. Saari, and J. Maakestad http://dx.doi.org/10.21079/11681/33183	AD1075380
ERDC/CRREL TR-19-8	Jun 2019	Measuring Very High Frequency and Ultrahigh Frequency Radio Noise in Urban Environments: A Mobile Measurement System for Radio-Frequency Noise, by C.E. Haedrich and D.J. Breton http://dx.doi.org/10.21079/11681/33290	AD1076333

¹ ERDC/CRREL TR-19-9	Jul 2019	Demonstration of Unconventional Countermeasures Materials: Development, Application, and Testing of Hot-Water Solar Collectors, by M.L. Maxson, J.M. Fegyveresi, B.A. West, N.E. Parker, K.J. Claffey, and G.R. Hoch	AD1081354
ERDC/CRREL TR-19-10	Jul 2019	Visual Observations and Stratigraphy of the South Pole Ice Core (SPICEcore): A Preliminary Holocene (~10.2 ka) Accumulation Record and Depth-Age Chronology, by J.M. Fegyveresi, T.J. Fudge, D.G. Ferris, D.A. Winski, and R.B. Alley http://dx.doi.org/10.21079/11681/33378	AD1076962
ERDC/CRREL TR-19-11	Jul 2019	Ice Control to Prevent Flooding in Ship Creek, Alaska, by S.F. Daly, J.S. Rocks, M.I. Reilly-Collette, and A.B. Glevin http://dx.doi.org/10.21079/11681/33483	AD1077986
ERDC/CRREL TR-19-12	Jul 2019	Estimating Forest Parameters Using Ground-Based Techniques with Implications for Airborne Data, by N.E. Parker, S.S. Whitecloud, K.S. Messan, B.G. Quinn, H.H. Vermeulen, S.A. Shoop, and C.F. Aoki http://dx.doi.org/10.21079/11681/33620	AD1077995
ERDC/CRREL TR-19-13	Jul 2019	WorldIndex Database Update 2018, by L.A. Barna, S.F. Daly, K.F. Jones, and J.J. Gagnon http://dx.doi.org/10.21079/11681/33621	AD1077992
ERDC/CRREL TR-19-14	Aug 2019	SnowMicroPenetrometer Applications for Winter Vehicle Mobility, by T.G. Meehan, H. Marshall, E.J. Deeb, and S.A. Shoop http://dx.doi.org/10.21079/11681/33680	AD1078478
¹ ERDC/CRREL TR-19-15	Aug 2019	Recovery and Management of Slickspot Peppergrass (<i>Lepidium papilliferum</i>) at the Air Force Juniper Butte Training Range, Idaho, by N.E. Parker, A.M. Mossell, and T.J. Cary	AD1078481
ERDC/CRREL TR-19-16	Aug 2019	Macroscale Salt-Crust Formation on Indoor Playa-Like Test Plots for Dust-Emission Research Applications: Methodology Assessment, by M.F. Bigl, S.L. LeGrand, S.A. Beal, A. Sopher, and D.B. Ringelberg http://dx.doi.org/10.21079/11681/33723	AD1081358
ERDC/CRREL TR-19-17	Aug 2019	Assessment of Field Methods for Measuring Mechanical Properties of Snow, by S.A. Shoop, W.L. Wieder, B.C. Elder, S.A. Beal, and E.J. Deeb http://dx.doi.org/10.21079/11681/33724	AD1081398

¹ Limited distribution; see Preface.

ERDC/CRREL TR-19-18	Sep 2019	Joint Base Cape Cod Small-Arms Ranges: Lead and Antimony Batch-Reaction Study, by A.J. Barker, S.A. Beal, and J.L. Clausen http://dx.doi.org/10.21079/11681/34105	AD1080803
ERDC/CRREL TR-19-19	Sep 2019	Influence of Wetland Indicator Status Ratings on the Extent of Hydrophytic Vegetation during Wetland Delineations, by C. Photos, L. Lefebvre, J. Klein, C.E. McKernan, J. Goulet, and R. Lichvar http://dx.doi.org/10.21079/11681/34184	AD1081131
ERDC/CRREL TR-19-20	Sep 2019	Unmanned Aerial Systems Electromagnetic Induction Sensor Development: Evaluation of Commercial-off-the-Shelf Unmanned Aerial System Motor Interference and Mitigation in Airborne Electromagnetic Induction Sensors, by B. Barrowes, D.R. Glaser, B.G. Quinn, M. Prishvin, and F. Shubitidze http://dx.doi.org/10.21079/11681/34104	AD1080860

4 Construction Engineering Research Laboratory (CERL)

Letter reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>
¹ ERDC/CERL LR-19-1	Jan 2019	Finite Element Modeling of New Bulkheads for MacArthur Lock, by B.A. Eick

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
¹ ERDC/CERL SR-18-3	Jul 2018	Structural Inspection of Reinforced Concrete Buildings at Corpus Christi Army Depot, by G.K. Al-Chaar and M.L. Banko	AD1081741
¹ ERDC/CERL SR-18-4	Jul 2018	Structural Inspection of Steel Buildings at Corpus Christi Army Depot, by G.K. Al-Chaar and M.L. Banko	AD1081744
¹ ERDC/CERL SR-18-5	Jul 2018	Structural Inspection of Building 8 at Corpus Christi Army Depot, by G.K. Al-Chaar and M.L. Banko	
ERDC/CERL SR-18-7	Dec 2018	Knowledge-Based Condition Assessment Reference Manual for Building Component-Sections: For Use with BUILDER™ and BuilderRED™ (v. 3 series), by D.R. Uzarski, M.N. Grussing, and B.B. Mehnert http://dx.doi.org/10.21079/11681/31236	AD1081470
ERDC/CERL SR-19-1	Jun 2019	Pulverized Paper as a Soil Carbon Source for Degraded Training Lands: User Guide, by R. Busby, H.A. Torbet, and S.A. Prior http://dx.doi.org/10.21079/11681/33083	AD1081473
ERDC/CERL SR-19-3	Sep 2019	Pulverized Paper as a Soil Carbon Source for Degraded Training Lands: Final Report, by R. Busby, H.A. Torbet, and S.A. Prior http://dx.doi.org/10.21079/11681/34203	
ERDC/CERL SR-19-4	Sep 2019	Finding Space: A Field Guide for Incorporating Low Impact Developments into Military Historic Districts, by E.R. Hartman http://dx.doi.org/10.21079/11681/34303	

¹ Limited distribution; see Preface.

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/CERL TR-17-26	Feb 2019	Systems Approach to Improved Facility Energy Performance, by J.P. Miller http://dx.doi.org/10.21079/11681/32944	AD1081474
ERDC/CERL TR-18-32	Oct 2018	Conflating Survey Data into Sociocultural Indicator Maps, by C.R. Ehlschlaeger, J.A. Burkhalter, N.R. Myers, C.L. Baxter, M.D. Hiatt, E.R. Hartman, S.A. Tweddale, J.D. Westervelt, R.C. Lozar, Y. Gao, D. Yin, M.V. Drigo, and D.A. Brown http://dx.doi.org/10.21079/11681/29921	AD1081477
ERDC/CERL TR-18-33	Oct 2018	ROOFER™ Energy Performance Assessment and Course of Action Analyses, by S.J. Vance, J.O. Flores, and K. Biswas http://dx.doi.org/10.21079/11681/29976	AD1070092
ERDC/CERL TR-18-34	Oct 2018	Demonstration of Dehumidification for Corrosion Control in Earth Covered Magazines: Final Report on Project F07-ARCTC02, by M.K. McInerney, O.S. Marshall Jr., and L.A. Gintert http://dx.doi.org/10.21079/11681/29971	AD1081481
ERDC/CERL TR-18-35	Oct 2018	Cultural Resources Job Descriptions and Position Classification Standards, by M.W. Tooker, D.A. Morrison, and A.D. Smith http://dx.doi.org/10.21079/11681/29926	AD1081484
¹ ERDC/CERL TR-18-36	Dec 2018	Documentation of Buildings 45, 46, 47, 48, 374, 376, 378, and 380 at Fort Riley, Kansas, by S.I. Ensore and J.L. Webster	
ERDC/CERL TR-18-37	Dec 2018	Historic Landscape Inventory for Corinth National Cemetery, by S.I. Ensore, E.R. Hartman, and A.D. Smith http://dx.doi.org/10.21079/11681/31146	AD1081828
ERDC/CERL TR-18-38	Dec 2018	Determination of NRHP Eligibility for 26 Buildings at Fort McCoy, Wisconsin, by A.D. Smith and S.E. Adams http://dx.doi.org/10.21079/11681/31235	AD1081846
ERDC/CERL TR-18-39	Dec 2018	Evaluation of Roof Leak Detection Utilizing Unmanned Aircraft Systems Equipped with Thermographic Sensors, by S.J. Vance, M.E. Richards, and M.C. Walters http://dx.doi.org/10.21079/11681/31239	AD1081485

¹ Limited distribution; see Preface.

ERDC/CERL TR-19-1	Jan 2019	Application of the FICUS Data-Conflation Model to a Theoretical Humanitarian Crisis Analytical Framework, by E. Bastian, C. Munaretto, N.R. Myers, C.L. Baxter, J. Fishman, J.D. Westervelt, C.R. Ehlschlaeger, and J.A. Burkhalter http://dx.doi.org/10.21079/11681/32006	AD1081856
ERDC/CERL TR-19-2	Jan 2019	Demonstration of Dehumidification Technology for a Missile-Storage Facility: Final Report on Project F11-AR25, by M.K. McInerney, S.C. Sweeney, and O.S. Marshall http://dx.doi.org/10.21079/11681/32297	AD1081486
ERDC/CERL TR-19-3	Sep 2019	Evaluation of Turfgrass Replacement Options: Artificial Turf, by E.M. Jenicek and A.T. Rodriguez http://dx.doi.org/10.21079/11681/34244	
ERDC/CERL TR-19-4	Feb 2019	Demonstration and Validation of Polymer Concrete Piping for Corrosive Environments: Final Report on Project F14-AR07, by C.A. Wilson, J.S. Edwards, S.L. Lamkin, A. Delgado-Connor, and P.C. Simonton http://dx.doi.org/10.21079/11681/32320	AD1069296
ERDC/CERL TR-19-5	Feb 2019	Pre-Reconstruction Planning, by G. Al-Chaar, C.L. Baxter, A.H. Elmajdoub, K. Cupka-Head, and G.C. Calfas http://dx.doi.org/10.21079/11681/32321	AD1069295
ERDC/CERL TR-19-6	May 2019	Historic Landscape Inventory for Chattanooga National Cemetery, by S.I. Enscoe, A. Smith, M.W. Tooker, and E.R. Hartman http://dx.doi.org/10.21079/11681/32866	AD1081770
ERDC/CERL TR-19-7	Apr 2019	A Framework for Prioritizing Conservation of Listed and At-Risk Species Across Taxa and Installations : A Demonstration using the DoD and Plant Biodiversity Hotspot of California, by M.G. Hohmann and W.A. Wall http://dx.doi.org/10.21079/11681/32569	AD1081489
ERDC/CERL TR-19-8	May 2019	Flood Resilience of Traditional Building Materials: Report of Simulated Flood Immersion According to ASTM E3075 Standard Procedures, by P.B. Stynoski, T.A. Carlson, A.M. Brake, C.M. Arnett, M.L. Banko, and M.M. Landi http://dx.doi.org/10.21079/11681/32823	AD1081490
ERDC/CERL TR-19-9	Aug 2019	Raven Rock Mountain Complex Site C Archaeological Phase I Survey, by C.L. Baxter, A.D. Smith, and E.R. Hartman http://dx.doi.org/10.21079/11681/33725	AD1078617

ERDC/CERL TR-19-10	Aug 2019	Raven Rock Mountain Complex Site R Archaeological Site Revisit, by C.L. Baxter, A.D. Smith, and E.R. Hartman http://dx.doi.org/10.21079/11681/33705	AD1078618
ERDC/CERL TR-19-11	Mar 2019	A Regional Population Viability Approach for Threatened and Endangered Species Management on Army Installations, by W.R. Fields, W.A. Wall, B.A. DeGregorio, and M.G. Hohmann http://dx.doi.org/10.21079/11681/33205	AD1076309
ERDC/CERL TR-19-13	Sep 2019	Development of a Cholera Epidemiological Risk Assessment Framework, by E. Bastian, C. Munaretto, N.R. Myers, C.L. Baxter, J. Fishman, J.D. Westervelt, C.R. Ehlschlaeger, and J.A. Burkhalter http://dx.doi.org/10.21079/11681/34162	AD1081298
ERDC/CERL TR-19-14	Sep 2019	Quantifying Uncertainty in Population Weighting of Twitter Analyses for Urban Risk Assessment, by E.G. Bastian, N.R. Myers, C.R. Ehlschlaeger, and J.A. Burkhalter http://dx.doi.org/10.21079/11681/34163	AD1081128
ERDC/CERL TR-19-15	Aug 2019	Rehabilitation of Deteriorated Wood Railroad Ties Using Inorganic Polymers: Final Report on Project F17-AR03, by G.K. Al-Chaar, K. Sankar, and W.M. Kriven http://dx.doi.org/10.21079/11681/33628	AD1078014
ERDC/CERL TR-19-16	Sep 2019	Air Force Native American Graves Protection and Repatriation Act (NAGPRA) Review and Summary, 2019, by A.M. Hamblin and D.A. Morrison http://dx.doi.org/10.21079/11681/34164	AD1081121
ERDC/CERL TR-19-17	Sep 2019	Demonstration of Electro-Osmotic Pulse and Dehumidification Technologies to Mitigate Corrosion in Earth Covered Magazines: Final Report on Project F08-AR23, by M.K. McInerney, O.S. Marshall Jr., L. Clark, C. Olaes, P. Noyce and P. Reedy http://dx.doi.org/10.21079/11681/34023	AD1080651
ERDC/CERL TR-19-18	Aug 2019	Demonstration of Electro-Osmotic Pulse Technology to Mitigate Alkali-Silica Reaction in Concrete Pavement: Final Report on Project F08-AR24, by M.K. McInerney, O.S. Marshall Jr., P.A. Noyce, and G. Blohm http://dx.doi.org/10.21079/11681/34123	AD1082124
ERDC/CERL TR-19-22	Sep 2019	Beale Air Force Base Architectural Inventory: 1942-1978, by E.R. Hartman and S.I. Ensore http://dx.doi.org/10.21079/11681/34243	

5 Environmental Laboratory (EL)

Contract reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/EL CR-19-1	Jul 2019	Determination of Nanomaterials' Film Thickness Using Filmetrics F40-UV Thin-Film Analyzer; Standard Operating Procedure Series : Characterization (C), by Q. Wu, K. Kremer, and S. Gibbons http://dx.doi.org/10.21079/11681/33627	AD1077727
ERDC/EL CR-19-2	Aug 2019	Investigations into Biological Control for Common Reed and Flowering Rush, by P. Häfliger, C. Ellison, and H.L. Hinz http://dx.doi.org/10.21079/11681/33795	AD1078574

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/EL SR-18-8	Oct 2018	Engineering with Nature: An Atlas, by T.S. Bridges, E.M. Bourne, J.K. King, H.K. Kuzmitski, E.B. Moynihan, and B.C. Suedel http://dx.doi.org/10.21079/11681/27929	AD1081504
ERDC/EL SR-19-1	May 2019	Determination of Fluorescence Emission and UV-Vis-NIR Absorbance for Nanomaterials Solution Using a HRIBA Scientific NanoLog® Soetrofluorometer, by Q. Wu, K. Kremer, S. Gibbons, and A.J. Kennedy http://dx.doi.org/10.21079/11681/32969	AD1074355
ERDC/EL SR-19-2	May 2019	Determination of Metal Ion Contents in Nanomaterials Solution Using Inductively Coupled Plasma - Mass Spectrometry (ICP-MS): Nano Risk SOP-P, by Q. Wu, K. Kremer, Y. Jiang, S. Gibbons, and A.J. Bednar http://dx.doi.org/10.21079/11681/32729	AD1073269
ERDC/EL SR-19-3	May 2019	Bioassay to Assess Toxicity of Water-Dispersed Engineered Nanomaterials in Plants; Scientific Operating Procedure Series: Toxicology (T), by A.J. Kennedy, N. Smith, A. Linan, and L. Kovacs http://dx.doi.org/10.21079/11681/33388	AD1074176
ERDC/EL SR-19-4	Jun 2019	Maintaining Salt Marshes in the Face of Sea Level Rise — Review of Literature and Techniques, by C.M. VanZomeren, D. Acevedo-Mackey, E.O. Murray, and T.J. Estes http://dx.doi.org/10.21079/11681/33297	AD1075958

ERDC/EL SR-19-5	Jun 2019	A Review of Coastal Vulnerability Assessments: Definitions, Components, and Variables, by C. VanZomeren and D. Acevedo-Mackey http://dx.doi.org/10.21079/11681/33289	AD1075869
ERDC/EL SR-19-6	Jun 2019	Determination of Contact Angle and Surface Tension of Nanomaterial Solutions by Optical Contact Angle System, by Q. Wu, K. Kremer, S. Gibbons, and A.J. Kennedy http://dx.doi.org/10.21079/11681/33395	AD1076386
ERDC/EL SR-19-7	Jun 2019	Saccharomyces cerevisiae (Budding Yeast); Standard Operating Procedure Series: Toxicology (T), by C. Campbell, C. Horstmann, K. Kim and A.J. Kennedy http://dx.doi.org/10.21079/11681/33688	AD1076361
ERDC/EL SR-19-8	Jul 2019	Determining the Bacterial Cytotoxicity of Silver Nanomaterials; Scientific Operating Procedure Series: Toxicity (T), by P.W. Schweiger, B. Tribell, M. Blank, and A.J. Kennedy http://dx.doi.org/10.21079/11681/33448	AD1076428

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<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/EL TN-18-1	Dec 2018	Taxonomic Soils Geomatics Investigation, by A. Davis, J. Furey, C. Morgan, and J. Seiter-Moser http://dx.doi.org/10.21079/11681/31458	AD1066196

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/EL TR-18-12	Oct 2018	Abiotic Removal of Phosphate From Surface Water - Bench Scale to Meso-Scale, by C.M. Jung, J.O. Eberly, G.A. Blakeney, and H.M. Knotek-Smith http://dx.doi.org/10.21079/11681/29535	AD1061242
ERDC/EL TR-18-13	Dec 2018	Framework for a General Restoration Model for Ecosystems with Anadromous Fish for U.S. Army Corps of Engineers. Phase 1: Conceptual Model Development, by B.D. Herman, T.M. Swannack, M.K. Reif, N. Richards, T. Barnes, and C.D. Piercy http://dx.doi.org/10.21079/11681/32265	AD1067419

ERDC/EL TR-18-15	Dec 2018	Analysis of Environmentally Acceptable Lubricants (EALs) for U.S. Army Corps of Engineers (USACE) Dams, by V.F. Medina, M.T. Wynter, T.M. Paulus, and J.R. Wilson http://dx.doi.org/10.21079/11681/30837	AD1081506
¹ ERDC/EL TR-19-1	Feb 2019	Wastewater Treatment Technologies for Insensitive Munitions Production at McAlester Army Ammunition Plant, by D.R. Felt, J.L. Johnson, L.A. Gurtowski, S. Sullivan, A. Holcomb, and L. Thomas	AD1069870
ERDC/EL TR-19-2	Feb 2019	Physicochemical Treatment of Cyanobacteria and Microcystin by Hydrodynamic Cavitation and Advanced Oxidation, by C.C. Thomas, A.D. Butler, V.F. Medina, C.S. Griggs, and A.W. Katzenmeyer http://dx.doi.org/10.21079/11681/32313	AD1068056
ERDC/EL TR-19-3	Mar 2019	Genetic and Morphological Differences of Water Chestnut (Myrtales: Lythraceae: Trapa): Populations in the Northeastern United States, Japan, and South Africa, by L.L. Dodd, N. Rybicki, R. Thum, Y. Kadono, and K. Ingram http://dx.doi.org/10.21079/11681/32506	AD1070329
ERDC/EL TR-19-4	Jun 2019	Draft Standard Monitoring Protocols for Herbaceous Vegetation, by B.D. Herman http://dx.doi.org/10.21079/11681/33123	AD1075121
ERDC/EL TR-19-5	Jun 2019	Crosslinking Graphene Oxide and Chitosan to Form Scalable Water Treatment Membranes, by J. Mattei-Sosa, V.F. Medina, C.S. Griggs, and V.G. Gude http://dx.doi.org/10.21079/11681/33263	AD1075867
ERDC/EL TR-19-6	Aug 2019	Methods Evaluation for Assessing Release of Manufactured Nanomaterials from Polymers, Consistent with the NanoGRID Framework; Advanced and Additive Materials: Sustainability for Army Acquisitions, by L.T. Haber, A.J. Bednar, A.J. Kennedy, M.L. Ballentine, and R.A. Canady http://dx.doi.org/10.21079/11681/33704	AD1078320
ERDC/EL TR-19-7	Jun 2019	Using Automatic Identification System (AIS) Data to Assess Collision and Grounding Risk in U.S. Coastal Ports, by M.T. Schultz and S.G. Bourne http://dx.doi.org/10.21079/11681/33343	AD1076224

¹ Limited distribution; see Preface.

ERDC/EL TR-19-8	Jul 2019	Conceptual Development and Testing of a Chitosan/Graphene Oxide (CSGO) "Bandage" to Isolate and Remove Chemical Contamination from Surfaces, by V.F. Medina, C. Noel, and J. Mattei-Sosa http://dx.doi.org/10.21079/11681/33403	AD1076380
ERDC/EL TR-19-9	Jul 2019	Simulated Field Evaluation of the Decontamination Effluent Treatment System (DETS) for Wash Water from Mass Personnel Decontamination (MPD), Road Test, and Evaluation Treating Perfluorinated Alkyl Substances (PFAS), by V.F. Medina, S.A. Waisner, J. Mattei-Sosa, E. Martinez-Guerra, C.S. Griggs, J.M. Lalley, D.L. Henderson, L.C. Moores, and B.H. Prager http://dx.doi.org/10.21079/11681/33411	AD1076433
ERDC/EL TR-19-10	Aug 2019	Synthetic Biology: Research Needs for Assessing Environmental Impacts, by C.M. Warner, S.R. Carter, R.F. Lance, F.H. Crocker, H.N. Meeks, B.L. Adams, M.L. Magnuson, E.J. Perkins, T.E. Rycroft, and K.L. Pokrzywinski http://dx.doi.org/10.21079/11681/33681	AD1078268
ERDC/EL TR-19-11	Aug 2019	Evaluation of Water Quality/Environmental Management Surveys on USACE Managed Reservoirs and Waterways, by V.F. Medina, A.D. Butler, E.B. Emery, and G.A. Clyde http://dx.doi.org/10.21079/11681/33703	AD1078285
ERDC/EL TR-19-12	Sep 2019	Development and Testing of the Training Range Environmental Evaluation and Characterization System (TREECS™) for Arctic/Sub-Arctic Conditions, by M.S. Dortch, J.L. Ryder, J.A. Gerald, and B.E. Johnson http://dx.doi.org/10.21079/11681/34103	AD1080577
ERDC/EL TR-19-13	Aug 2019	Shale Barren Mapping and Threatened and Endangered Species Surveys for Raystown Lake, PA: U.S. Army Corps of Engineers, Baltimore District, by M.P. Guilfoyle, K.D. Philley, E.R. Britzke, A.B. Harrison, W.T. Slack, and N. Schoppmann http://dx.doi.org/10.21079/11681/33963	AD1081748
ERDC/EL TR-19-14	Sep 2019	Development of an Automated Digital System for Delivery of Aquatic Herbicides, by B.M. Sabol, B. Bultemeier, R.E. Melton Jr., K.D. Getsinger, and M.D. Netherland http://dx.doi.org/10.21079/11681/33983	AD1079946

¹ ERDC/EL TR-19-15	Sep 2019	Pilot-Scale Evaluation of an IMX-101 Process Water Management System, by L.A. Gurtowski, J.L. Johnson, S.G. Zetterholm, D.B. Gent, K.N. Noel, C. Nestler, and S.L. Larson	AD1079984
ERDC/EL TR-19-16	Sep 2019	Demonstration and Evaluation of Eurasian Watermilfoil Control using Aquatic Herbicides in Fort Peck Lake, MT, by R.L. Podkowka, K.D. Getsinger, J.G. Skogerboe, P.L. Gilbert, and T.G. Pennington http://dx.doi.org/10.21079/11681/33991	AD1080018
ERDC/EL TR-19-17	Sep 2019	Comparison of Generic and Proprietary Aquatic Herbicides for Control of Invasive Vegetation: Part 1. Floating Plants, by C.R. Mudge and K.D. Getsinger http://dx.doi.org/10.21079/11681/34183	AD1081072
ERDC/EL TR-19-18	Sep 2019	Evaluating Effects of Dredging-Induced Underwater Sound on Aquatic Species: A Literature Review, by B.C. Suedel, A.D. McQueen, J.L. Wilkens, and M.P. Fields http://dx.doi.org/10.21079/11681/34245	

¹ Limited distribution; see Preface.

6 Geospatial Research Laboratory (GRL)

Miscellaneous papers

<u>Report Number</u>	<u>Date</u>	<u>Title</u>
¹ ERDC/GRL MP-19-1	Mar 2019	Robust Forest Cover Indices for Multispectral Images, by S.J. Becker, C.S.T. Daughtry, and A.L. Russ

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<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/GRL TN-19-1	Apr 2019	Parts Unmapped: Linear Multi-variate Analysis of Food, Water, and Temperature Requirements for Regional Stability, by K.R. Miner and R.E. Rodgers http://dx.doi.org/10.21079/11681/32565	AD1081507
ERDC/GRL TN-19-2	Aug 2019	Boolean Decomposition of Spatiotemporal Tensors, by C. Chen, C.L. Ellison, Z.J. Roth, and M.A. Simper http://dx.doi.org/10.21079/11681/33849	AD1078957

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/GRL TR-19-1	Sep 2019	Forest Cover Index for Tree Cover Detection Using Landsat-7 Multispectral Imagery, by L.I. Feliciano-Cruz, S.J. Becker, K.D. Lasko, C.S.T. Daughtry, and A.L. Russ http://dx.doi.org/10.21079/11681/34072	AD1080372

¹ Embargo in place until March 2020.

7 Geotechnical and Structures Laboratory (GSL)

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
¹ ERDC/GSL SR-19-1	Aug 2019	User's Guide for PENCURV+: Version 2.8, by M.D. Adley, K.T. Danielson, B.C. Patterson, R.P. Berger, A.J. Burroughs, T.A. Waddell, and D.D. Boswell	
¹ ERDC/GSL SR-19-2	Sep 2019	The Hardened Alternative Trailer System (HATS) Deployment Guide: Living Document, by J.M. Roberts, M.J. Roth, and C.R. Ackerman	

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<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/GSL TN-19-1	Jan 2019	Geophysical Feasibility Study to Identify Signs of Chimney Drain/Drainage Blanket Clogging in Canyon Dam Canyon Lake, Comal County, Texas, by J. Simms and K. Martin http://dx.doi.org/10.21079/11681/31461	AD1066195

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/GSL TR-18-28	Oct 2018	Wave-Speed-Based Performance Indicators for Portugues Dam, by Z.H. Duron, P. Orme, S. Anderson, H. Diaz-Alvarez, V.P. Chiarito, and M.H. McKenna http://dx.doi.org/10.21079/11681/29854	AD1081509
¹ ERDC/GSL TR-18-29	Oct 2018	Full- and 0.67-Scale Model Studies of Explosive Attacks on Non-Water-Backed Zoned Embankment Dams: The Red Zone Experimental Effort for the United States Bureau of Reclamation, by A.A. Armstrong, D.D. Rickman, S.D. Turner, R.G. Rhett, K. Langston, and G.H. Sutley	AD1081750

¹ Limited distribution; see Preface.

¹ ERDC/GSL TR-18-30	Oct 2018	0.67-Scale Model Studies of Explosive Attacks on Water-Backed Zoned Embankment Dams: The Water Red Zone Experimental Effort for the United States Bureau of Reclamation, by A.A. Armstrong, D.D. Rickman, S.D. Turner, N. Nakamoto, and G.H. Sutley	AD1081751
ERDC/GSL TR-18-31	Oct 2018	Mechanical Behavior of Cor-Tuf Ultra-High Performance Concrete Considering Aggregate and Paste Effects, by I.L. Howard, A. Carey, M. Burcham, D.A. Scott, J.D. Shannon, R.D. Moser, and M.F. Horstemeyer http://dx.doi.org/10.21079/11681/29642	AD1081511
ERDC/GSL TR-18-32	Nov 2018	Little Rock Air Force Base Aggregate and Concrete Testing, by J.D. Shannon http://dx.doi.org/10.21079/11681/30368	AD1081512
ERDC/GSL TR-18-33	Dec 2018	Laboratory Evaluation of Next-Generation Backfill Materials and Methods for Airfield Damage Repair, by T.R. Johnson, C.A. Weiss, Jr., L. Edwards, J.S. Tingle, W.S. Harmon, and T.J. Talbot http://dx.doi.org/10.21079/11681/31445	AD1066172
¹ ERDC/GSL TR-18-34	Dec 2018	Experimental Results for Fragment-Induced Dry Spillage from Containers using a Fragment Launcher, by P.W. Graham, R.E. Magee, and K.L. Tillman	AD1070168
¹ ERDC/GSL TR-18-35	Dec 2018	DBA-105P Re-Development, Explosive Property Testing with Indian Head Oxidizer: 500-Gallon Scale, by S.L. Garlington, M.J. Roth, B.W. Bullock, T.A. Cariveau, D.C. Guynes, A.J. Jackson, R.E. Magee, and D.V. Senior	AD1081755
¹ ERDC/GSL TR-19-1	Jan 2019	Experimental Results for Bimodal Test Series 2 (Triacetin): Tests BM21 through BM41, by P.W. Graham and J.K. Minor	AD1070176
¹ ERDC/GSL TR-19-2	Feb 2019	An Evaluation of the Effects of Soil Type and Placement Parameters on Explosive Cratering: Results and Analyses of Intermediate-Scale Flat Terrain Tests, by G.K. Doles, D.D. Rickman, S.S. Graham, M.D. Marshall, L.L. Jeffers, and J.M. Brown	AD1070537
ERDC/GSL TR-19-3	Feb 2019	Localization and Mapping of Unknown Locations with Unmanned Ground Vehicles, by D.M. Turnage http://dx.doi.org/10.21079/11681/32277	AD1067505

¹ Limited distribution; see Preface.

ERDC/GSL TR-19-4	Feb 2019	Evaluation of Commercially Available Screeds for Finishing of Rapid-Setting Concrete, by W.D. Carruth http://dx.doi.org/10.21079/11681/32311	AD1067956
ERDC/GSL TR-19-5	Mar 2019	Scour Level II Assessment of U.S. Army Installation Bridge; Facility Number: BRG15 Fort Stewart, Georgia, by S.M. Arias-Román and D. Suazo-Dávila http://dx.doi.org/10.21079/11681/32361	AD1068787
¹ ERDC/GSL TR-19-6	Mar 2019	Literature Review: Survey of Blast Testing on Concrete Perimeter Walls, by J.K. Fulk, D.H. Nelson, R.E. Walker, O.G. Flores, M.J. Roth, and C.R. Ackerman	AD1069446
¹ ERDC/GSL TR-19-7	Mar 2019	Assault Amphibious Vehicle Survivability Upgraded Soft-Soil Testing – One Pass Vehicle Cone Index(VCI ₁), by J.E. Osorio, B.W. Towne, and J.T. Carrillo	AD1069196
ERDC/GSL TR-19-8	Mar 2019	Determination of Structural Properties of Airfield Matting, by L. Gacia and N.R. Hoffman http://dx.doi.org/10.21079/11681/32402	AD1069209
ERDC/GSL TR-19-9	Mar 2019	Introducing Additional Energy Dissipation Mechanisms in Steel Fiber Reinforcement for Ultra-High Performance Concrete, by D.A. Scott, R.D. Moser, Z.B. McClelland, S.L. Williams, B.A. Williams, W.R. Long, B.H. Green, K.E. Walker, C.N. Downey, and A.J. Tillotson http://dx.doi.org/10.21079/11681/32405	AD1069253
ERDC/GSL TR-19-10	Mar 2019	Development of a Lightweight Airfield Anchor Test Kit, by A.B. Groeneveld, M.W. Trim, M. Mejías-Santiago, and C.A. Rutland http://dx.doi.org/10.21079/11681/32505	AD1081759
ERDC/GSL TR-19-11	Mar 2019	Residual Expansion Capacity and Degradation of Mechanical Properties in Alkali-Silica Reaction (ASR) Damaged Concrete, by M.A. Ramsey, S.G. Wood, and R.D. Moser http://dx.doi.org/10.21079/11681/32485	AD1070091
ERDC/GSL TR-19-12	Apr 2019	A Multiscale Meshfree Approach to Modeling Damage of Cor-Tuf without Fibers Using Fracture Energy Experiments, by J.A. Sherburn, W.F. Heard, B.A. Williams, and P.A. Sparks http://dx.doi.org/10.21079/11681/32547	AD1070537

¹ Limited distribution; see Preface.

ERDC/GSL TR-19-13	Apr 2019	Laboratory Tensile Performance of Joint Adhesive for Asphalt Pavements, by W.J. Robinson, J.D. Doyle, and J.A. Harrison http://dx.doi.org/10.21079/11681/32546	AD1070333
¹ ERDC/GSL TR-19-14	Apr 2019	Experiments and Simulations to Quantify Blast-Wave Interaction with Generic Vehicles for Ideal and Homemade Explosive Detonations, by A.A. Doles, G.K. Doles, N.T. Williams, J.Q. Ehr Gott, Jr., J.E. Windham, J.L. Morrow, and R.L. Jeffers	AD1081761
¹ ERDC/GSL TR-19-15	May 2019	SIAM Deployment and Documentation: A Guide and Case Study, by C.P. Simpson, S.L. McComas, R.D. Whitlow, K.M. McLaughlin, M.H. McKenna, and B.G. Quinn	AD1081762
¹ ERDC/GSL TR-19-16	Apr 2019	Buried Blast Tests and Simulations to Investigate Surface Area Effect on Impulse, by N.T. Williams, G.K. Doles, J.Q. Ehr Gott, Jr., S.A. Akers, J.E. Windham, J.L. Morrow, L.L. Jeffers, and J.M. Brown	AD1081764
ERDC/GSL TR-19-17	Apr 2019	Scour Assessment for a Bridge with Limited Site Data: Bridge 00B06, Milan Army Ammunition Plant, Tennessee, by S.M. Arias-Román and D. Suazo-Dávila http://dx.doi.org/10.21079/11681/32585	AD1071724
¹ ERDC/GSL TR-19-18	Apr 2019	Blast Protection for Cast-Iron Tunnel Walls: Experimental Results, by B.W. Foust, J.O. Torres-Alamo, and L.K. Davis	AD1072750
ERDC/GSL TR-19-20	Apr 2019	Investigation of the Mechanisms for the Delamination Resistance Found in Bio-Engineered Composites Found in Nature: Bi-Layered Exoskeleton Fish Scales, by W.D. Hodo http://dx.doi.org/10.21079/11681/32680	AD1072804
ERDC/GSL TR-19-21	May 2019	Rock Demolition and Hazardous Debris Removal for Ecosystem Restoration on the Elwha River, by C.W. Ertle, M.J. Roth, J.S. Judson and G.H. Vankirk http://dx.doi.org/10.21079/11681/33090	AD1081525
ERDC/GSL TR-19-22	May 2019	Ultra-Accelerated Alkali-Silica Reaction Testing Using Autoclaving Methods, by R.D. Moser, S.G. Wood, M.A. Ramsey, J.S. Tingle, E.R. Reed-Gore, C.M. Strack, and C.A. Rutland http://dx.doi.org/10.21079/11681/32709	AD1081766

¹ Limited distribution; see Preface.

¹ ERDC/GSL TR-19-23	May 2019	Investigation of Constituent Materials used to Develop Ultra-High Performance Concrete in Guam, by B.A. Williams, W.F. Heard, D.A. Scott, and M.I. Hammons	AD1074260
ERDC/GSL TR-19-24	May 2019	Constituent Materials Characterization for Virtual Concrete Microstructure Generation, by J.D. Shannon, C.M. Strack, and R.D. Moser http://dx.doi.org/10.21079/11681/33054	AD1074554
ERDC/GSL TR-19-25	May 2019	Mesoscale Modeling of Cementitious Materials: Phase I, by M.Q. Chandler, W.B. Lawrimore, M.C. Edwards, R.D. Moser, J.D. Shannon, and J.L. O'Daniel http://dx.doi.org/10.21079/11681/32980	AD1074409
¹ ERDC/GSL TR-19-26	Jun 2019	Laboratory Evaluation of Lightweight Flexible Matting Systems, by L. Garcia	AD1075836
ERDC/GSL TR-19-27	Jun 2019	Developmental Design of the Remotely Piloted Vehicle System, by D.M. Turnage, B.W. Towne, B.Q. Gates, C.L. Cummins, R.D. Ellison, and C.A. Barela http://dx.doi.org/10.21079/11681/33234	AD1076328
¹ ERDC/GSL TR-19-28	Jun 2019	Study of the Design Methodology for Curtain Walls with Four-Side Structural Silicone Glazing in Blast Loading Environments, by J.B. Jordan	AD1076097
ERDC/GSL TR-19-29	Jun 2019	Evaluation of Concrete Spall Repair Materials, by A.J. Falls http://dx.doi.org/10.21079/11681/33309	AD1076383
¹ ERDC/GSL TR-19-30	Jun 2019	Implementation of Impulse Reduction Factors into the Simplified Survivability Assessment Overhead Cover Design Application for Design and Evaluation of Triggering Layer Module, by O. Esquilin-Mangual, F.J. Acosta, C.S. Stephens, D.H. Nelson, and O.G. Flores	AD1076209
¹ ERDC/GSL TR-19-31	Jun 2019	Active Seismic Imaging Improved (ASII): Evaluation of the Next Generation of the ASI System, by S.D. Sloan, E.P. Simpson, D.Z. Feigenbaum, J.R. Picucci, R.D. Miller, J. Anderson, B. Bennett, A. Hoch, J. Scobee, B. Wedel, S. Morton, Y. Wang, J. Ivanov, and S.L. Peterie	AD1076474

¹ Limited distribution; see Preface.

¹ ERDC/GSL TR-19-32	Jul 2019	Development of the Modular Protective System Overhead Cover: Evaluation of E-glass as a Triggering Material, by O. Esquilin-Mangual, D.K. Sham, B.A. Jones, W.J. McCleave, O.G. Flores, R.N. Boone, M.E. Glynn, and O. Carrasquillo-Franco	AD1076529
ERDC/GSL TR-19-33	Jul 2019	Predicting Service Life Utilizing Freeze-thaw Modeling of Aging Navigation Structures, by J.D. Shannon, R.D. Moser, and S.G. Wood http://dx.doi.org/10.21079/11681/33469	AD1076472
¹ ERDC/GSL TR-19-34	Jun 2019	A Soldier-based Assessment of the Installation and Operation of the Linear Sensing System: Findings, by E.P. Simpson, A.L. Tillotson, S.W. Williams, W.E. Coronel, and J.D. Ellis	AD1077031
¹ ERDC/GSL TR-19-35	Jul 2019	Laboratory Characterization and Material Property Prediction Methodology of Fort Polk-15 SP Sand, by S.S. Graham, K.J. Ratliff, S.A. Akers, Z.K. Crosby, T.N. Williams, and M.D. Adley	AD1077334
ERDC/GSL TR-19-36	Jul 2019	Investigation of Sand Boils near Ware, IL, Middle Mississippi River, Preston Levee District, by J.R. Kelley, K.B. Parkman, R.C. Strange, B.R. Breland, J.B. Dunbar, and M.K. Corcoran http://dx.doi.org/10.21079/11681/33619	AD1077720
ERDC/GSL TR-19-37	Jul 2019	Mixture Proportioning and Characterization of Standard Grout Mixtures for Use at Fort Polk, by D.A. Scott, R.A. Andreatta, W.R. Long, B.H. Green, V.P. Chiarito, K.E. Walker, C.P. Rusche, and C.N. Downey http://dx.doi.org/10.21079/11681/33749	AD1078619
ERDC/GSL TR-19-38	Aug 2019	Laboratory Measure of SWCC for a Poorly Graded Fine Sand, by L.A. Walshire, O.-D.S. Taylor, and W.W. Berry http://dx.doi.org/10.21079/11681/33676	AD1078208
ERDC/GSL TR-19-39	Aug 2019	Development of an Integrated Pavement Screed for Screeding Asphalt or Concrete Crater Repairs, by B.C. Cox and N.R. Hoffman http://dx.doi.org/10.21079/11681/33671	AD1078175
¹ ERDC/GSL TR-19-40	Aug 2019	Analysis of Alternatives for Pavement Damage Cut Out and Removal: E-ADR Spiral 1, by H.P. Bell, S.D. Turner, D.D. Rickman, and J.Q. Ehrgott, Jr.	AD1078945

¹ Limited distribution; see Preface.

¹ ERDC/GSL TR-19-41	Aug 2019	The Virtual Material Laboratory (VML), Version 3.0: New Capabilities for the Modeling of Blast Protection of Platforms and Personnel, by M.D. Adley and K.T. Danielson	AD1079124
¹ ERDC/GSL TR-19-42	Aug 2019	Analysis of Alternatives for Spiral 2: Crater Fill Materials Processing, Placement, and Compaction, by M. Mejias-Santiago, L. Garcia, and L. Edwards	AD1079460
¹ ERDC/GSL TR-19-43	Aug 2019	Characterizing Effects from a HELLFIRE R9E Warhead Buried in a Simulated Concrete Roadbed, by W.S. Myers, Jr., J.Q. Ehr Gott, Jr., J.E. Windham, J. Ramos-Delgado, T.A. Waddell, and S. Bartyczak	AD1079586
ERDC/GSL TR-19-44	Sep 2019	Erosion Control of Earth Covered Magazines to Maintain Minimum Cover Requirements, by J.D. Shannon http://dx.doi.org/10.21079/11681/34089	AD1081527
¹ ERDC/GSL TR-19-45	Sep 2019	Experimental Results for Cased-Bomb Expansion Rate Tests: Scoping Tests ST15-1 through ST15-24, Measured by a High-Speed Camera, by P.W. Graham	AD1080753
¹ ERDC/GSL TR-19-46	Sep 2019	Experimental Results for a Bare Explosive Blast Load on Nearby Containers: Scoping Test ST4-1, Air Shock Pressure Damage to Containers, by P.W. Graham	AD1081782
¹ ERDC/GSL TR-19-47	Sep 2019	Experimental Results for Bomb Fragment Velocity Tests: Scoping Tests ST14-1 through ST14-53, Measured by a High-Speed Camera, by P.W. Graham	AD1080802
¹ ERDC/GSL TR-19-48	Sep 2019	Experimental Results for Targeting Containers Filled with Pyrotechnic Fuel Mixture VI: Scoping Tests ST12-1 through ST12-13 and ST12-13Cal, by P.W. Graham, J.K. Minor, and K.L. Tillman	AD1081791
¹ ERDC/GSL TR-19-49	Sep 2019	Experimental Results for Bimodal Test Series 4 (Triacetin): Tests BM63 through BM83, by P.W. Graham and R.E. Bennett	AD1081804
¹ ERDC/GSL TR-19-50	Sep 2019	Experimental Results for a Bomb Fragment Debris Filtering Test: Scoping Test ST13-1, by P.W. Graham and K.L. Tillman	AD1081669

¹ Limited distribution; see Preface.

8 Information Technology Laboratory (ITL)

Special reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/ITL SR-17-1 App. C	Dec 2018	Publications of the U.S. Army Engineer Research and Development Center. Appendix C: FY18 (October 2017-September 2018), by James A. Dolan http://dx.doi.org/10.21079/11681/31406	AD1066198
¹ ERDC/ITL SR-18-1	Nov 2018	One-Stop Assessment of Building 335, General Purpose Warehouse, at Rock Island, Illinois, by G.A. Riveros	AD1081532
¹ ERDC/ITL SR-18-2	Nov 2018	One-Stop Assessment of Building 338, General Purpose Warehouse, at Rock Island Arsenal, Rock Island, Illinois, by G.A. Riveros	AD1081533
¹ ERDC/ITL SR-18-3	Nov 2018	One-Stop Assessment of Building 144, Flammable Material Storage, at Rock Island Arsenal, Rock Island, Illinois, by G.A. Riveros	AD1081535
ERDC/ITL SR-18-4	Dec 2018	How to Prepare Technical Publications for the Engineer Research and Development Center: Policies, Standards, and Practices, by W.J. Wolfe http://dx.doi.org/10.21079/11681/32004	AD1081536
ERDC/ITL SR-19-1	Jul 2019	TradeAnalyzer v4.0 User Guide, by E.R. Mixon, J.Q. Church, K.D. Niles, and T.W. Garton http://dx.doi.org/10.21079/11681/33474	AD1076452
ERDC/ITL SR-19-2	Jun 2019	Google Search Appliance End of Life and Replacement Recommendations, by B.M. Garton, J.S. Broderick, and B.K. Randle http://dx.doi.org/10.21079/11681/33410	AD1076371
ERDC/ITL SR-19-3	Jul 2019	Threatened and Endangered Species Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33509	AD1077395
ERDC/ITL SR-19-4	Jul 2019	Analytical Model Software Integration Methods, by B.M. Garton http://dx.doi.org/10.21079/11681/33516	AD1077412
ERDC/ITL SR-19-5	Jul 2019	Building Maintenance Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33523	AD1077408

¹ Limited distribution; see Preface.

ERDC/ITL SR-19-6	Jul 2019	Frequency of Extreme Weather Events Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33549	AD1077416
ERDC/ITL SR-19-7	Jul 2019	Range Days Lost to Fire Risk Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33555	AD1077439
ERDC/ITL SR-19-8	Jul 2019	Growing Degree Days Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33562	AD1077449
ERDC/ITL SR-19-9	Jul 2019	Heating and Cooling Degree Days Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33569	AD1077452
ERDC/ITL SR-19-10	Jul 2019	Range Days Lost to Heat Risk Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33576	AD1081539
ERDC/ITL SR-19-11	Jul 2019	Heating and Cooling Cost Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33591	AD1077520
ERDC/ITL SR-19-12	Jul 2019	Range Encroachment Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33599	AD1077523
ERDC/ITL SR-19-13	Jul 2019	Temperature and Precipitation Projections Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33606	AD1077529
ERDC/ITL SR-19-14	Jul 2019	Water Balance Model User's Guide, by B.M. Garton http://dx.doi.org/10.21079/11681/33614	AD1077533
ERDC/ITL SR-19-15	Aug 2019	TradeAnalysis Visualization Comparisons, by K.D. Niles, J.E. Jabour, J.Q. Church, and T.W. Garton http://dx.doi.org/10.21079/11681/33809	AD1078751
ERDC/ITL SR-19-16	Sep 2019	Guided-Wave Inspection of California Department of Water Resources Tainter Gate Trunnion Rods: Inspection of Oroville Dam, Thermalito Bypass, and Pyramid Dam, by J.D. Ray, R.D. Brown, and J.A. Evans http://dx.doi.org/10.21079/11681/34007	AD1080041
ERDC/ITL SR-19-17	Sep 2019	Setting up a Local Database From an Existing .mdf File, by A.I. Santiago Lugo, K.E. Mixon, A.E. Bednar, and B.C. White http://dx.doi.org/10.21079/11681/34153	AD1080865
ERDC/ITL SR-19-18	Sep 2019	TradeAnalysis v1.1 Technical Guide, by J.Q. Church http://dx.doi.org/10.21079/11681/34169	AD1081014

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/ITL TR-18-2	Dec 2018	Analysis of a River Bank, Levee, or Floodplain I-Wall Embedded in Stratified Soil Layers During Flood Events Using Corps_I-Wall (CI-Wall) Version 2.0, by R.M. Ebeling, B.C. White, and M.T. Fong http://dx.doi.org/10.21079/11681/31502	AD1081807
ERDC/ITL TR-19-1	May 2019	Underwater Fatigue Repair of Steel Panels Using Carbon Fiber Reinforced Polymers, by G.A. Riveros, H. Mahmoud, M. Memari, C. Lozano, A. Valsangkar, and B. Ahmadi http://dx.doi.org/10.21079/11681/32789	AD1073615
ERDC/ITL TR-19-2	Apr 2019	Determining Miter Gate Plate Corrosion and Thickness of Anti-Corrosion Coatings; and Development of a Mobile Sensor Inspection Platform, by J.A. Evans, J.R. Tallent, R.D. Brown, A. Netchaev, and C.R. Thurmer http://dx.doi.org/10.21079/11681/32568	AD1071197
ERDC/ITL TR-19-3	May 2019	Engineered Resilient Systems: TradeAnalyzer, by T.W. Garton, W.H. Brown, E.R. Mixon, and J.Q. Church http://dx.doi.org/10.21079/11681/32987	AD1074426
ERDC/ITL TR-19-4	Jun 2019	Multiaxial Fatigue Strength of Structural Bolts Under Combined Cyclic Axial and Shear Demands, by G.A. Riveros, H.N. Mahmoud, and S.R. Lopez http://dx.doi.org/10.21079/11681/33270	AD1075868
ERDC/ITL TR-19-5	Jun 2019	Load Factors for Earth Retaining, Reinforced Concrete Hydraulic Structures Based on a Reliability Index (β) Derived from the Probability of Unsatisfactory Performance(PUP): Phase 1 Study, by R.M. Ebeling and B.C. White http://dx.doi.org/10.21079/11681/33227	AD1075670
ERDC/ITL TR-19-6	Aug 2019	A/E/C Graphics Standard: Release 2.1, by S.C. Spangler http://dx.doi.org/10.21079/11681/33814	AD1078774
ERDC/ITL TR-19-7	Aug 2019	A/E/C Computer-Aided Design (CAD) Standard: Release 6.1 http://dx.doi.org/10.21079/11681/33829	AD1078917
ERDC/ITL TR-19-8	Sep 2019	Initial Benchmarking of the Intel 3DStacked MCDRAM, by B.S. Parsons http://dx.doi.org/10.21079/11681/34161	AD1080853

9 Aquatic Plant Control Research Program (APCRP)

Technical notes

Biological control

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN APCRP-BC-42	Feb 2019	Suitability of Introduced Nymphoides spp. (Nymphoides cristata, N. peltata) as Targets for Biological Control in the United States, by N.E. Harms and J.G. Nachtrieb http://dx.doi.org/10.21079/11681/32347	AD1068632

10 Dredging Operations and Environmental Research Program (DOER)

Technical notes

Dredged material management

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN DOER-D21	Nov 2018	Evaluation of Capacitance Staffs to Measure Vertical Accretion in Tidal Environments, by B.M. Boyd and D.B. Bryant http://dx.doi.org/10.21079/11681/30623	AD1081606

Environmental resource protection

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN DOER-E43	Feb 2019	Summary of Threatened and Endangered Species Team Workshop: ESA Section 7(A)(1) Conservation Planning in the South Pacific Division, by M.P. Guilfoyle, R.A. Fischer, and J.F. Jung http://dx.doi.org/10.21079/11681/32312	AD1068051

Innovative operations technologies

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN DOER-I7	May 2019	Bubble Image Velocimetry with an Acoustic Camera, by D.L. Young, B.C. McFall, and D.B. Bryant http://dx.doi.org/10.21079/11681/32863	AD1074587

11 Dredging Operations Technical Support Program (DOTS)

Technical notes

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN DOTS-19-1	Jan 2019	Monitoring a Nearshore Beneficial Use Site: Application of a Benthic Sled and Video Annotation, by J. Wilkens, J. Norton, and G.C. Roegner http://dx.doi.org/10.21079/11681/31593	AD1066371

12 Ecosystem Management and Restoration Research Program (EMRRP)

Environmental benefits assessment (EBA)

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN EMMRP-EBA-23	Mar 2019	Marsh Assessment and Restoration Implementation at Three Salt Marshes in Response to Relative Sea Level Rise: A Report from Webinars and Supplemental Findings, by C.M. VanZomeren, E.O. Murray, and D. Acevedo-Mackey http://dx.doi.org/10.21079/11681/32412	AD1069314
ERDC/TN EMMRP-EBA-24	May 2019	Relating Seagrass Habitat to Geomorphology and Substrate Characteristics Around Ship Island, MS, by E.R. Eisemann, S. Altman, D. Acevedo-Mackey, and M.K. Reif http://dx.doi.org/10.21079/11681/33023	AD1074585

Ecosystem impacts (EI)

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN EMRRP-EI-05	Jul 2019	Tools for Predicting Wildlife Species Distribution Response to Ecological Shifts, by A. Davis, A. Fuentes, J.F. Jung, H. Theel, E. Britzke, and R.A. Fischer http://dx.doi.org/10.21079/11681/33482	AD1077124

Species information (SI)

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN EMRRP-SI-38	Jun 2019	Developing Best Management Practices for Coastal Engineering Projects that Benefit Atlantic Coast Shoreline-dependent Species, by M.P. Guilfoyle, J.F. Jung, R.A. Fischer, and D.D. Dickerson http://dx.doi.org/10.21079/11681/33203	AD1075485

Stream restoration (SR)

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN EMRRP-SR-85	Mar 2019	Habitat Provision Associated with Environmental Flows, by N.V. Bhattacharjee, J.R. Willis, E.W. Tollner, and S.K. McKay http://dx.doi.org/10.21079/11681/32406	AD1069271
ERDC/TN EMRRP-SR-86	Mar 2019	Retrospective Sustainability and Resilience: Complementary Concepts for Managing Systems, by K.F. Chambers, A.C. Baker, S.K. McKay, and H. Morgan http://dx.doi.org/10.21079/11681/32407	AD1069283
ERDC/TN EMRRP-SR-87	May 2019	HEC-RAS-RVSM (Riparian Vegetation Simulation Module), by Z. Zhang, B. Johnson, and B. Greimann http://dx.doi.org/10.21079/11681/32864	AD1074004
ERDC/TN EMRRP-SR-88	Jun 2019	Application and Validation Study of the HEC-RAS-RVSM Model to the Sacramento River, by Z. Zhang, B. Johnson, J. Wang, and B. Greimann http://dx.doi.org/10.21079/11681/33245	AD1075823
ERDC/TN EMRRP-SR-89	Aug 2019	Aligning Ecological Model Development with Restoration Project Planning, by S.K. McKay, N. Richards, and T.S. Swannack http://dx.doi.org/10.21079/11681/33863	AD1079288

13 Engineering with Nature Program (EWN)

Technical notes

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN EWN-19-1	Jan 2019	Threatened and Endangered Species Team Approach USACE Southeastern Region Opportunity Assessment Working Meeting: Advancing Cost-Efficient & Effective ESA Compliance and Mission Sustainability Through Engineering With Nature and ESA Section 7(a)(1) Conservation Plans, by J.G. Brown, R.A. Fischer, and C.J. Banks http://dx.doi.org/10.21079/11681/32262	AD1067160
ERDC/TN EWN-19-2	Feb 2019	Plant Community Approach to Establishing Vegetation on DMPAs and CDFs, by P. Bailey, S. Miller, T. Cary, S. Bourne, and T. Sekoni http://dx.doi.org/10.21079/11681/32296	AD1067651
ERDC/TN EWN-19-3	Feb 2019	Realizing Multiple Benefits in U.S. Army Corps of Engineers (USACE) Baltimore District Dredging Projects through Application of Engineering With Nature® Principles, by D.M. Szimanski, A.D. McQueen, and B.C. Suedel http://dx.doi.org/10.21079/11681/32288	AD1067538

14 Regional Sediment Management Demonstration Program (RSM)

Technical Notes

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ERDC/TN RSM-18-8	Oct 2018	Hawaii Regional Sediment Management: West Maui Region; Nearshore Sedimentation at Honokowai Stream, by J.H. Podoski, L. Molina, Z. Demirbilek, and L. Lin http://dx.doi.org/10.21079/11681/29708	AD1081609
ERDC/TN RSM-18-9	Oct 2018	Hawaii RSM: Advance Planning for the Beneficial Reuse of Dredged Material at Haleiwa Harbor, Island of Oahu, Hawaii, by L.K. Molina and J.H. Podoski http://dx.doi.org/10.21079/11681/29729	AD1081610
ERDC/TN RSM-18-10	Nov 2018	Alternatives to Manage Sediment at the Intersection of the Gulf Intracoastal Waterway (GIWW) and the Corpus Christi Ship Channel (CCSC), by P. Hamilton, E. Wood, L. Lin, T. Campbell, L. Olson, S. Jones, S. Howard, and K. Skalbeck http://dx.doi.org/10.21079/11681/30383	AD1081817
ERDC/TN RSM-19-1	Mar 2019	Implementing Regional Sediment Management (RSM): Policy Guidance and Authorities Pertinent to Improving the Use of Dredged Sediments, by M.H. Schrader http://dx.doi.org/10.21079/11681/32383	AD1069405
ERDC/TN RSM-19-2	Mar 2019	Kikiaola Light Draft Harbor, Island of Kauai; Hawaii: Regional Sediment Management (RSM), by L.K. Molina, T.D. Smith, and C.T. Blay http://dx.doi.org/10.21079/11681/32389	AD1069480
ERDC/TN RSM-19-3	Mar 2019	Identification of Alternatives to Reduce Shoaling and for Beneficial Use at the Bolivar Flare of the Gulf Intracoastal Waterway, by P. Hamilton, A. Burgin, S. Jones, L. Lin, and J. Miller http://dx.doi.org/10.21079/11681/32388	AD1069500
ERDC/TN RSM-19-4	Mar 2019	Evaluating Post-Wildfire Impacts to Flood Risk Management (FRM): Las Conchas Wildfire – New Mexico, by I.E. Floyd, M. Ramos-Villanueva, R.E. Heath, and S.W. Brown http://dx.doi.org/10.21079/11681/32910	AD1074727

ERDC/TN RSM-19-5	Aug 2019	Analysis of a Hydrosuction Sediment Removal System for Tuttle Creek Lake, Kansas, by J. Shelley http://dx.doi.org/10.21079/11681/33583	AD1078013
ERDC/TN RSM-19-6	Aug 2019	Feasibility of Nearshore Placement Near the Swinomish Navigation Channel; Puget Sound, Washington, by D.R. Michalsen and S.H. Brown http://dx.doi.org/10.21079/11681/33885	AD1079678
ERDC/TN RSM-19-7	Aug 2019	Modeling Sediment Concentrations during a Drawdown Reservoir Flush: Simulating the Fall Creek Operations with HEC-RAS, by S. Gibson and J. Crain http://dx.doi.org/10.21079/11681/33884	AD1079682

15 Miscellaneous Publications

Technical notes

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MRG&P Tech Note No. 7	Dec 2018	Executive Summary Mississippi River and Tributaries Flowline Assessment, by J.A. Ashley and J.W. Lewis http://dx.doi.org/10.21079/11681/32647	AD1081657

Technical reports

<u>Report Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MRG&P Report No. 21	Oct 2018	Analysis of the 2011 Mississippi River Flood from Natchez, MS, to Baton Rouge, LA, Using a Three-Dimensional Sediment Model: Model Development and Calibration, by S.K. Ayres http://dx.doi.org/10.21079/11681/30181	AD1081659
MRG&P Report No. 22	Oct 2018	Mississippi River Bedform Roughness and Streamflow Conditions near Vicksburg, Mississippi: Data Collection Summary and Analysis, by M.T. Ramirez, S.J. Smith, J.W. Lewis, and T.C. Pratt http://dx.doi.org/10.21079/11681/30369	AD1082136
MRG&P Report No. 23	Oct 2018	Morganza Control Structure Forebay: Numerical Hydraulic Model Investigation, by R.E. Heath, D.P. May, J.R. Leech, G. Savant, and P.V. Luong http://dx.doi.org/10.21079/11681/30303	AD1082141
MRG&P Report No. 24 Vol.1	Dec 2018	Mississippi River and Tributaries Flowline Assessment Main Report by J. Lewis, C. McKinnie, K. Parrish, W. Crosby, C. Cruz, M. Dove, R.A. Gaines, S. Girdner, R. Gambill, D. Ramirez, R. Taylor, M. Agnew, W. Veatch, M. Dirksen, T. Brown, F. Griggs, R. Copeland, B. Rentfro, J. Ashley, J. Windham, and E. Howe http://dx.doi.org/10.21079/11681/32623	AD1082147
MRG&P Report No. 24 Vol.2	Dec 2018	Mississippi River and Tributaries Flowline Assessment Hydrology Report, by R.A. Gaines, S.E. Girdner, and B.J. Frederick http://dx.doi.org/10.21079/11681/32693	AD1082154

MRG&P Report No. 24 Vol.3	Dec 2018	Mississippi River and Tributaries Flowline Assessment Hydraulics Report, by J. Lewis, E. Howe, C.A. Cruz, M.L. Dove, W.A. Crosby, R.J. Taylor, D.A. Ramirez, M.S. Dirksen, and R. Gambill http://dx.doi.org/10.21079/11681/32665	AD1082157
MRG&P Report No. 24 Vol.4	Dec 2018	Mississippi River and Tributaries Flowline Assessment: Mississippi River Sedimentation Report, by R.R. Copeland http://dx.doi.org/10.21079/11681/32664	AD1081662
MRG&P Report No. 24 Vol.5	Dec 2018	Mississippi River and Tributaries Flowline Assessment: Atchafalaya River Sedimentation Model Report, by J.W. Lewis and R.R. Copeland http://dx.doi.org/10.21079/11681/32663	AD1081663
MRG&P Report No. 25	Dec 2018	HEC-RAS Unsteady Flow and Sediment Model of the Mississippi River: Tarbert Landing to the Gulf, by T.A. Dahl, R.E. Heath, S.A. Gibson, and C.J. Nygaard http://dx.doi.org/10.21079/11681/31782	AD1081664
MRG&P Report No. 26	Dec 2018	Hydrodynamics in the Morganza Floodway and Atchafalaya Basin Report 2: Phase 2, by G.L. Bell, D.D. Abraham, and N.D. Clifton http://dx.doi.org/10.21079/11681/31446	AD1082162
MRG&P Report No. 27	Mar 2019	Hydrodynamic, Salinity, and Morphological Modeling Study of a Sediment Diversion: An Application of the Adaptive Hydraulics Model/SEDLIB Sediment Transport Library, by G.L. Brown and K.C. Pevey http://dx.doi.org/10.21079/11681/32445	AD1081667
MRG&P Report No. 28	Sep 2019	Mississippi River and Tributaries Future Flood Conditions, by J.W. Lewis, A.A. Tavakoly, C.A. Martin, and C.D. Moore http://dx.doi.org/10.21079/11681/34206	AD1081345

REPORT DOCUMENTATION PAGE

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