

Resource Conservation and Resiliency



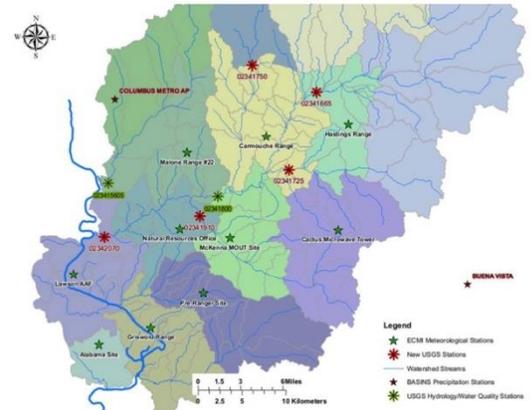
UPDATES

Welcome to our biannual Resource Conservation and Resiliency newsletter that provides updates about new information and products available from the Resource Conservation and Resiliency Program Area.

Demonstration and Validation of BASINS Watershed Modeling System Enhanced for Military Installations

Watershed modeling systems are a critical component of efforts to support and maintain military readiness and the sustainability of DoD testing and training lands. A recently completed [ESTCP effort](#) supported the demonstration and validation of the Better Assessment Science Integrating point and Non-point Sources (BASINS) Modeling System. The project fully demonstrates the validity of the technology to meet the DoD's need for tools to evaluate watershed hydrology and water quality for system-level assessments. The demonstrations took place at Fort Benning in Georgia and Fort AP Hill in Virginia.

The BASINS Modeling System is a geographic information system-based system and features an interface for different dynamic watershed models, as well as numerous pre- and post-processing tools that are shared by the models. Two types of enhancements, which used the Hydrological Simulation Program - FORTRAN (HSPF) as the primary modeling code, were developed through a [previous SERDP project](#) for the BASINS Modeling System for military-specific applications: (1) data and methodologies that address key military land stressors or managed disturbances (i.e., urban encroachment, prescribed burning, timber harvesting, military training, and unpaved roads), and (2) software refinements related to model linkages and algorithms. [MORE](#)



Recently Released Documents Available for Download

- RC-201307 - “Demonstration and Validation of BASINS Watershed Modeling System Enhanced for Military Installations” - [Final Report for AP Hill](#) and the [Final Report for Fort Benning](#)
- RC-201416 - “Pulverized Paper as a Soil Carbon Source for Degraded Training Lands” - [User Guide](#)

Key Events and Meetings

December 3 - 5, 2019 - SERDP & ESTCP 2019 Symposium

The SERDP and ESTCP Symposium is a nationally recognized conference focusing on the DoD's priority environmental and installation energy issues. The 2019 Symposium will be held from December 3 - 5, 2019, at the Washington Marriott Wardman Park in Washington, D.C.

The Resource Conservation and Resiliency Program Area is offering three technical sessions at the Symposium on various topics including infrastructure and resilience, ecosystem dynamics, and threatened, endangered, and invasive species. The two short courses will be similarly focused on infrastructure resilience planning and UAV Utilization in Resource Conservation. Additional details can be found on the [Symposium website](#) regarding the posters sessions, plenary session, and more.

Upcoming Conferences

August 11 - 16, 2019 - ESA & USSEE 2019 Joint Meeting

The ESA & USSEE joint meeting will take place from August 11th to the 16th in Louisville, Kentucky. The Ecological Society of America is a nonpartisan, nonprofit organization of scientists founded in 1915. The Ecological Society of America will be holding its 104th Annual Meeting in partnership with the United States Society for Ecological Economics (USSEE), one of many regional professional organizations within the umbrella society of the International Society for Ecological Economics (ISEE). [MORE](#)

December 9 - 13, 2019 - AGU Fall Meeting 2019

The AGU Fall Meeting 2019 which will take place from December 9th to the 13th in San Francisco, CA and will mark another dynamic year of discovery in Earth and space science. This year's meeting during the AGU Centennial year offers unique spaces for attendee interaction and engagement with new technologies. [MORE](#)
