

March 2024

NextGen Webinar Dates

- March 20 Gary Ervin MS State University *watch posted seminar on EcoMod website*
- April 17 Vanessa Quintana **USACE Army ERDC**
- May 6-10 **NextGen Annual** Meeting San Marcos, TX

Ashley Schutt **T**echnician



As the team and their project portfolio grew, they recognized the need for managing budgets and communication. Ashley Schutt came from a business background. She was tasked with overseeing the team's goals and monitoring progress. This requires collaborating with Branch Analysts, Comms teams, and Program Managers. Communicating expectations and achievements is an imperative part of EcoMod's research. Ashley maintains the team's

https://ecomod.erdc.dren.mil, which showcases EcoMod's work!

Team EcoMod News

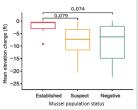
Continuing Collaboration with the Bureau of Reclamation

EcoMod has worked with the Bureau of Reclamation (BOR) since 2014. The newest project to emerge from this partnership is the development of a quantitative toolkit to forecast potential dispersal of invasive mussels



and quantify if water levels are correlated with established populations. Our partner Dr. Amy Yarnall, of the Coastal Ecology team, is focusing on the importance of drawdown events in invasive species prevention. A final report

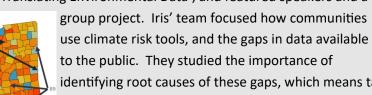
> and journal article were also submitted, and will be available on our website

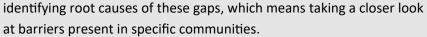


Data Visualization Summit

Iris Foxfoot attended the Environmental Data Science Summit in Santa Barbara,

CA this February. The theme was 'Communicating and Translating Environmental Data', and featured speakers and a







Data Visualization Contest

Data visualization is a prevailing theme for Team EcoMod this year! Through the Next Generation Ecological Modeling program, we are challenging students working on NextGen projects to submit their best example of scientific illustration, infographic, video, etc. We want to impress the importance of communicating the science to your audience. For

details and examples, visit our website

ecomod.erdc.dren.mil.

2024 Data Visualization Challenge

Model Spotlight: Comprehensive (Comp) Marsh Model

Marsh dynamics includes many interacting components, and require an integrated modeling framework to capture the complexity of the system. The Comp Marsh Model includes hydrodynamics, morphology, and ecosystem dynamics. This model was created using the python-based Landlab Toolkit developed by Community Surface Dynamics Modeling System (CSDMS). It couples tidal flow, morphology, and vegetation components.

Publication available at https://hdl.handle.net/11681/48131 Email ecomodteam@usace.army.mil