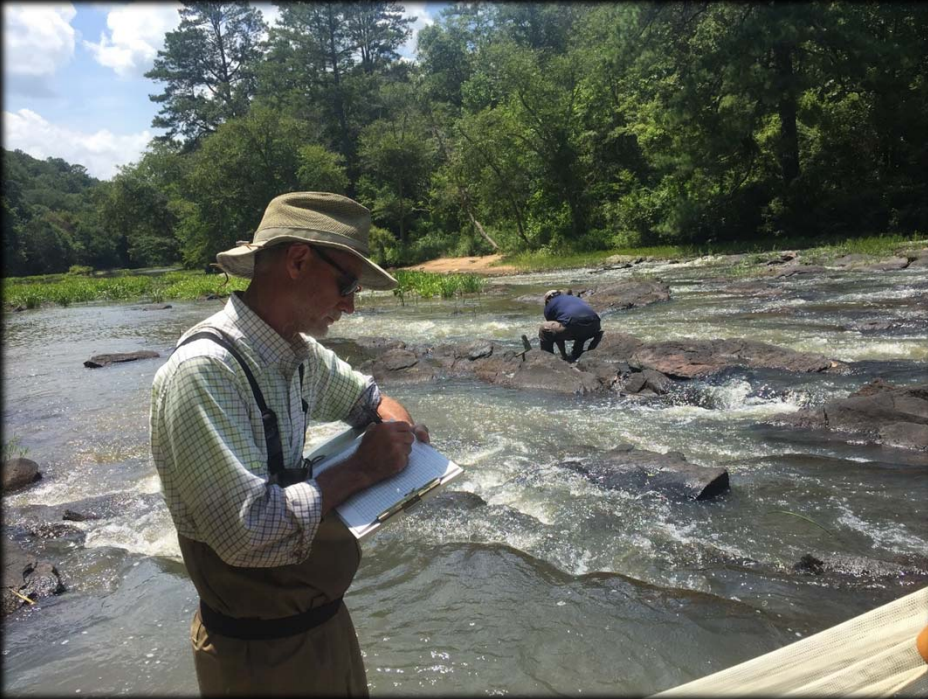


An Update on Watershed Work at the Geological Survey of Alabama



Stuart McGregor, Pat O'Neil, Anne Wynn,
Rebecca Bearden, Parker Nenstiel



What Are We Doing?

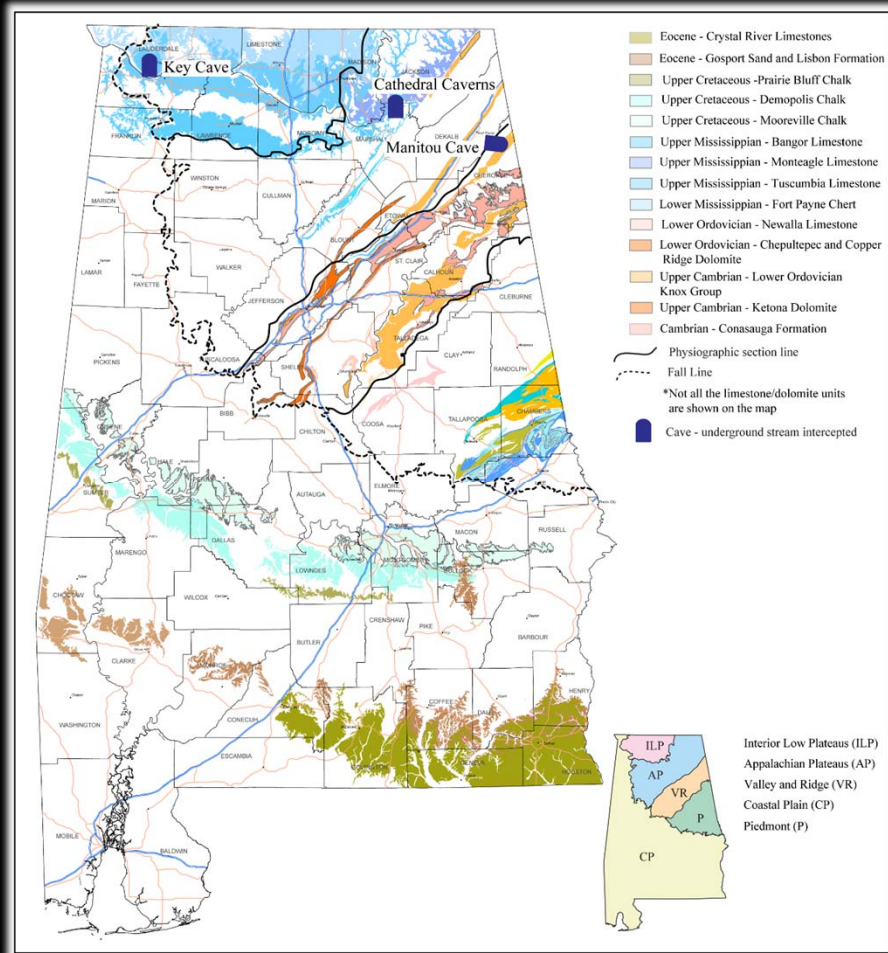
- Ongoing projects
 - NFWF grants
 - USFWS partnerships
- In the queue
 - Watershed assessments
 - Fish reports
- Future projects
 - Fish reports
 - Partnerships with universities
 - New survey methods



Ongoing Projects

- Redstone Arsenal
 - Alabama Cave Shrimp
 - Tuscumbia Darter

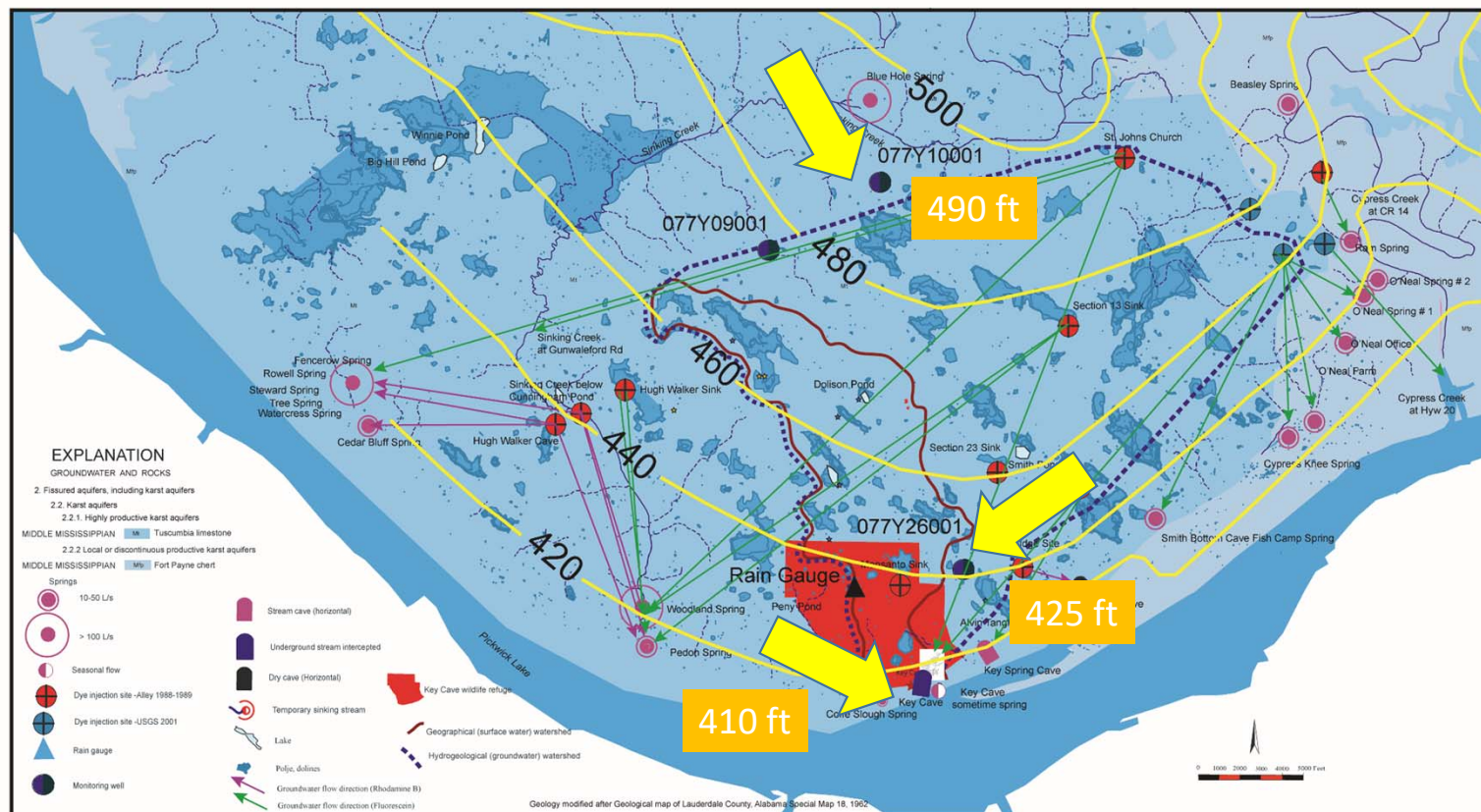




Ongoing Projects

- Key Cave Recharge





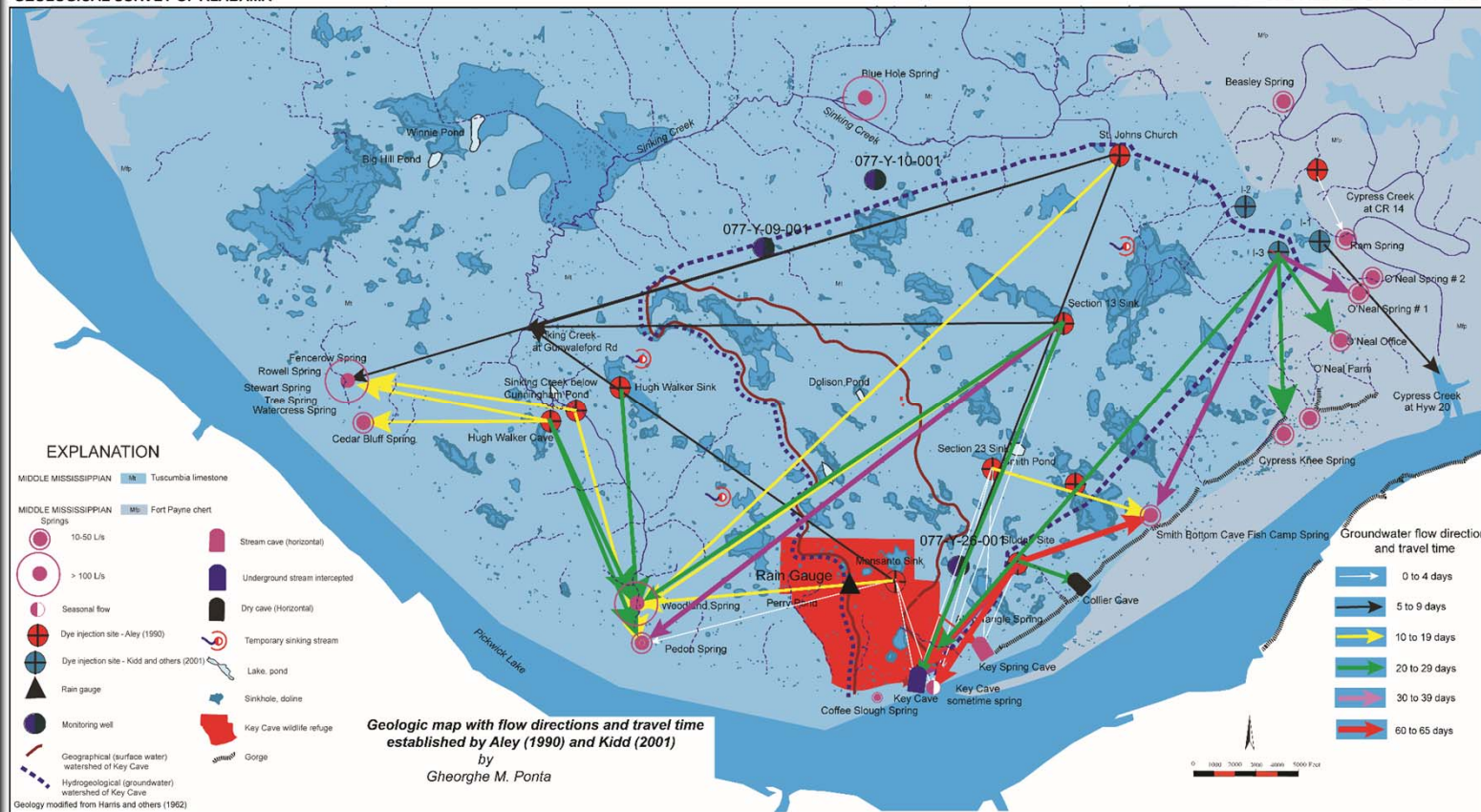


Figure 26. Plot of values of specific conductance and water levels in Key Cave, Pickwick Reservoir, wells 077-Y-10-001, and 077-Y-26-001, with precipitation from November, 2017 to December 1, 2018

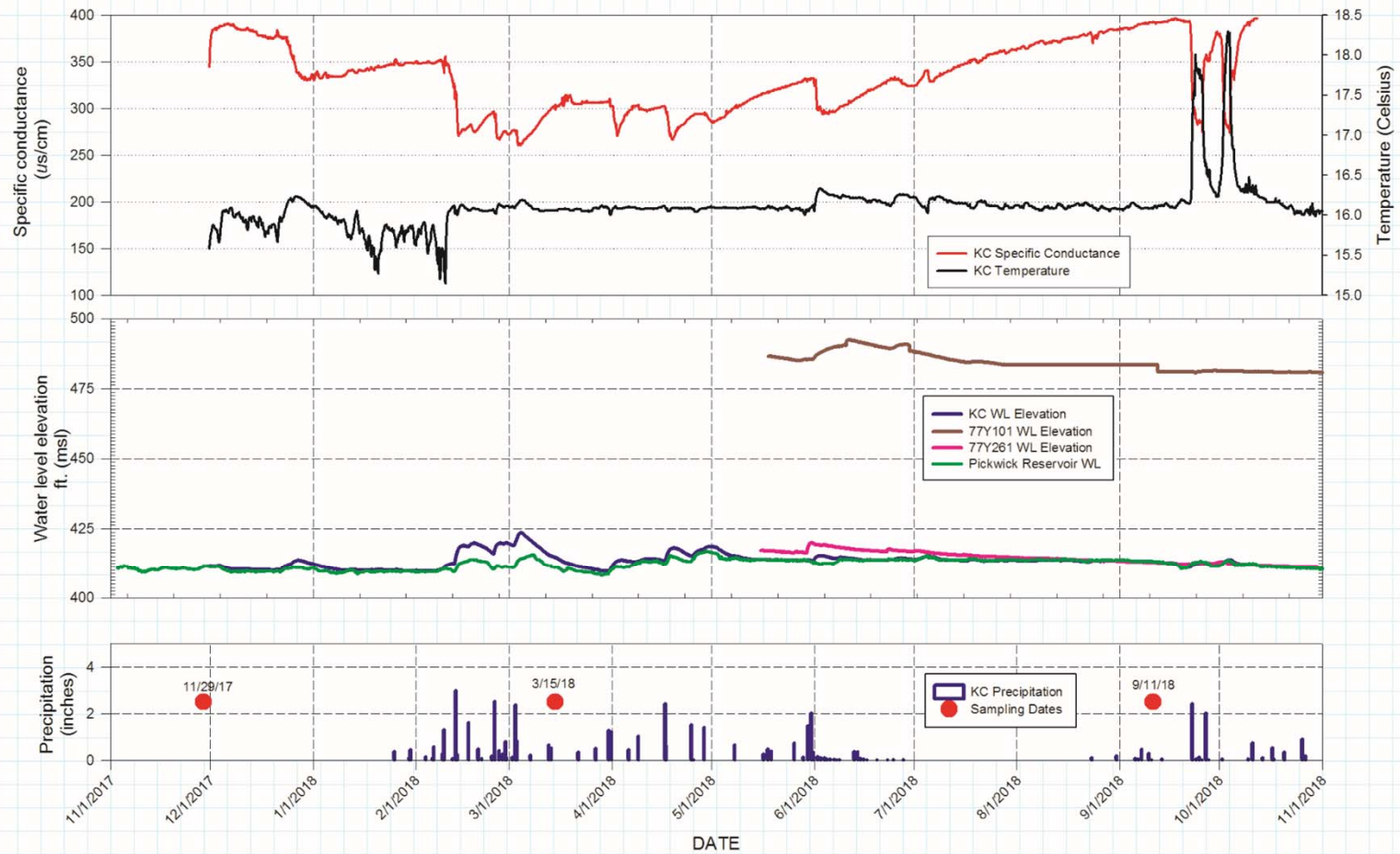
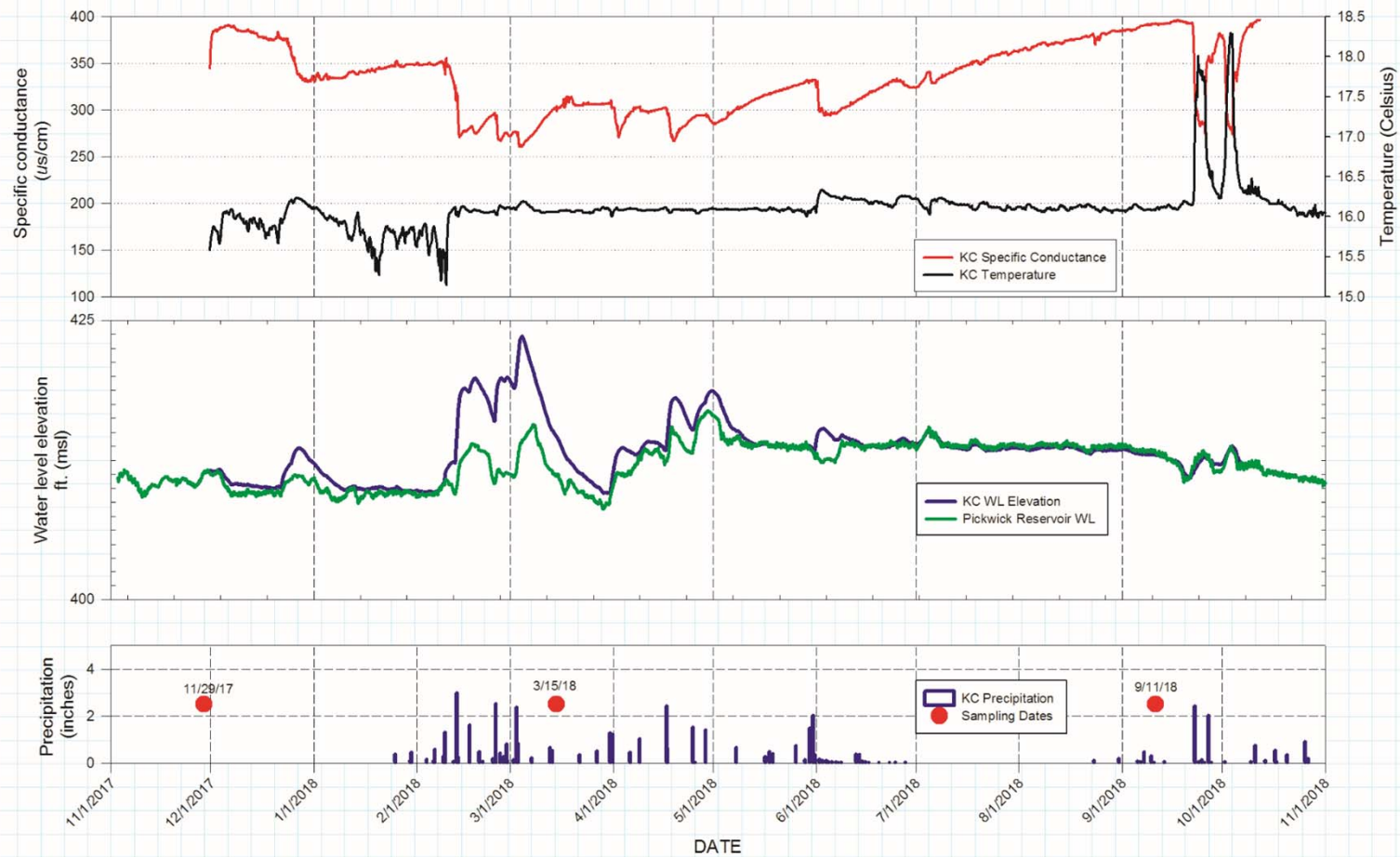


Figure 27. Plot of values of specific conductance and water levels in Key Cave and Pickwick Reservoir, with precipitation from November, 2017 to December 1, 2018

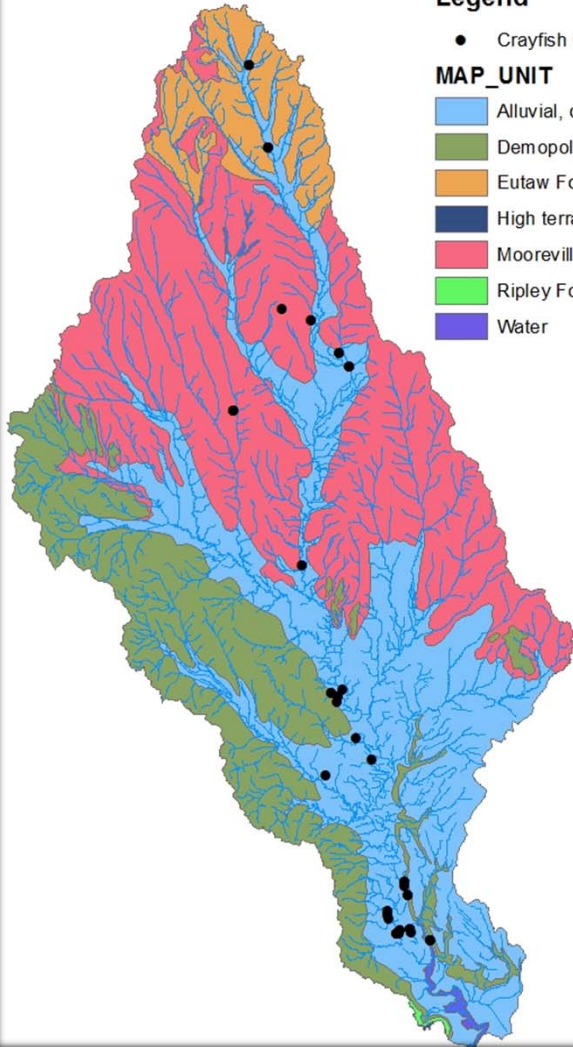


Legend

- Crayfish Collections

MAP_UNIT

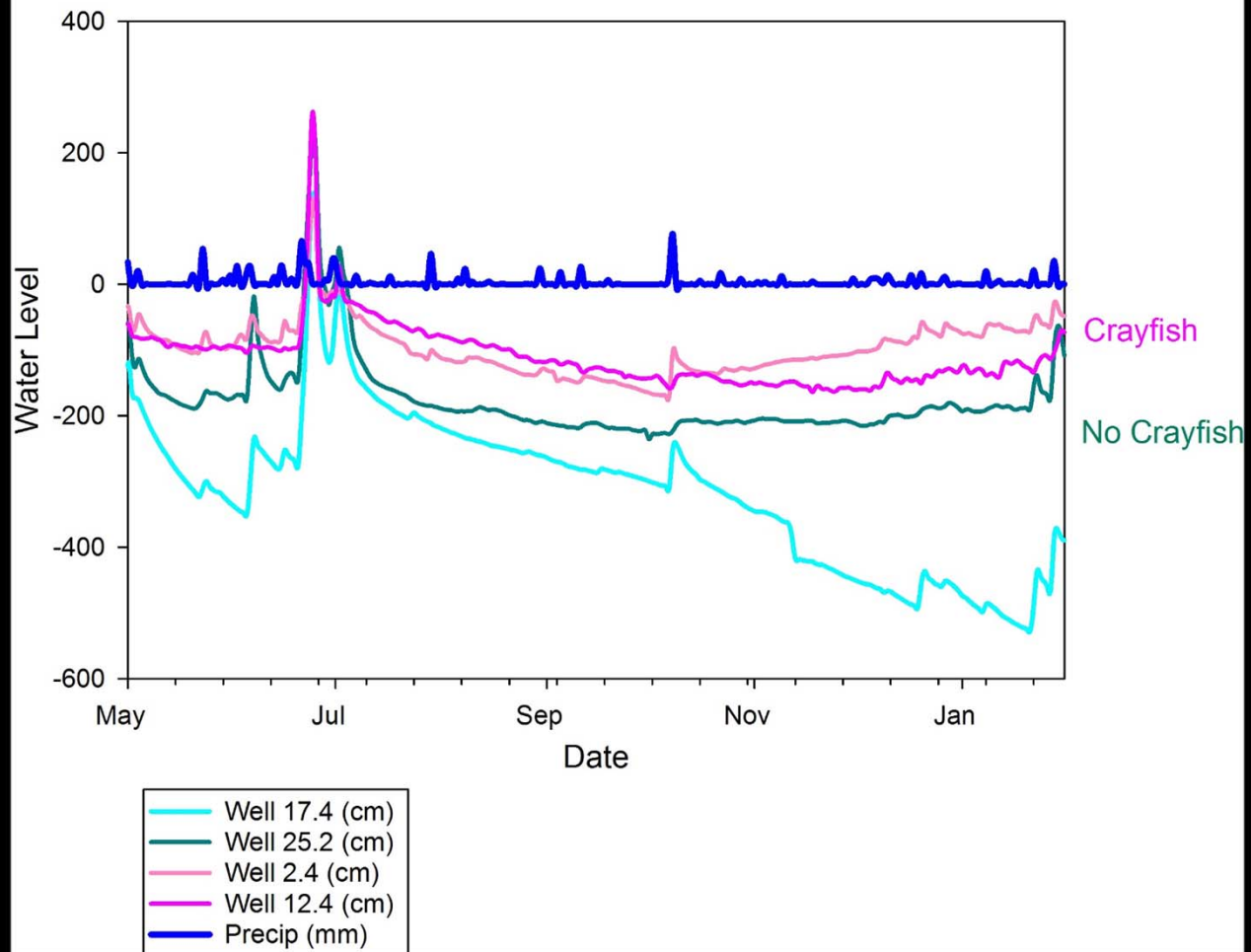
- Alluvial, coastal, and low terrace deposits
- Demopolis Chalk
- Eutaw Formation
- High terrace deposits
- Mooreville Chalk
- Ripley Formation
- Water



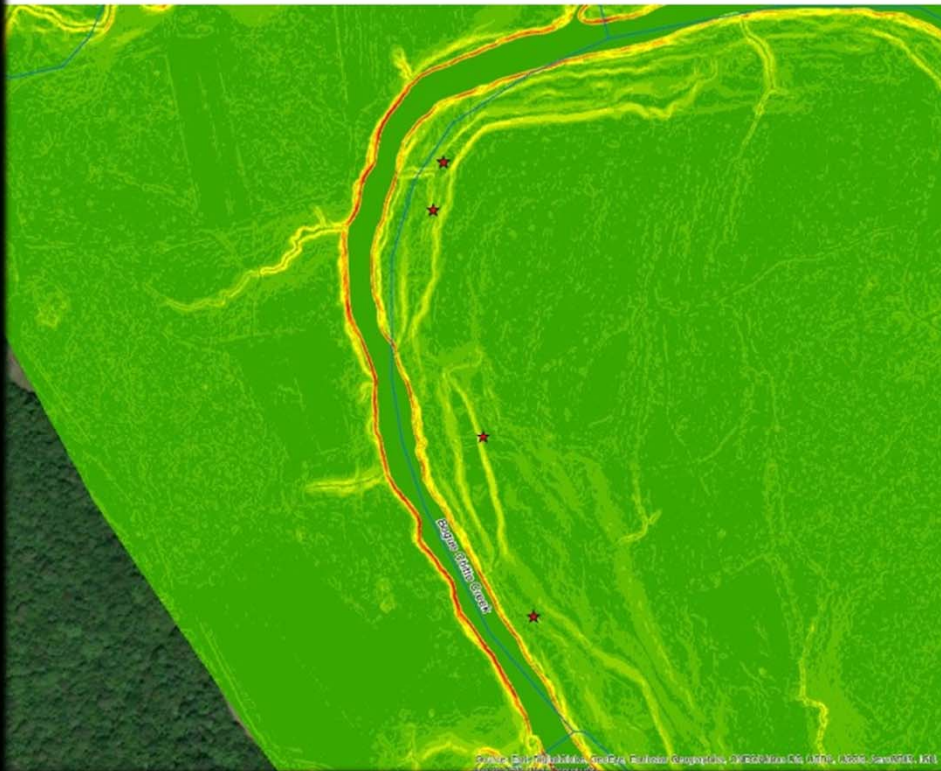
Bogue Chitto Creek Watershed Assessment

- WQ for surface water and shallow groundwater
- IBIs
- Crayfish surveys

Water Level Change Over Time



Slope derivation from LIDAR showcases the main channel and terraces on the Bogue



Ongoing Projects

- Trispot Darter
 - eDNA sampling
 - Traditional surveys
- Watercress Darter
- Black Warrior River Mollusk Survey



Reports in the Queue



- Terrapin Creek Watershed Assessment
- Murder Creek Fishes
- Cypress Creek Fishes
- Locust Fork Fishes
- Sipsev River Fishes



Future Projects

- Locust Fork
 - NFWF grant partnership with The Nature Conservancy
 - Water quality and GIS
- Bear Creek Fishes Report
- Choctawhatchee/Pea River Fishes Report
- Butler Creek (Shoal Creek trib) Fish Sampling/Report with University of North Alabama
- Non-wadable IBI Creation
 - Partner with ADEM



Questions?

