## Riparian Ecosystem Monitoring Network

#### Ecological Team Brittany Lancellotti

# Riparian ecosystems are important landscape features

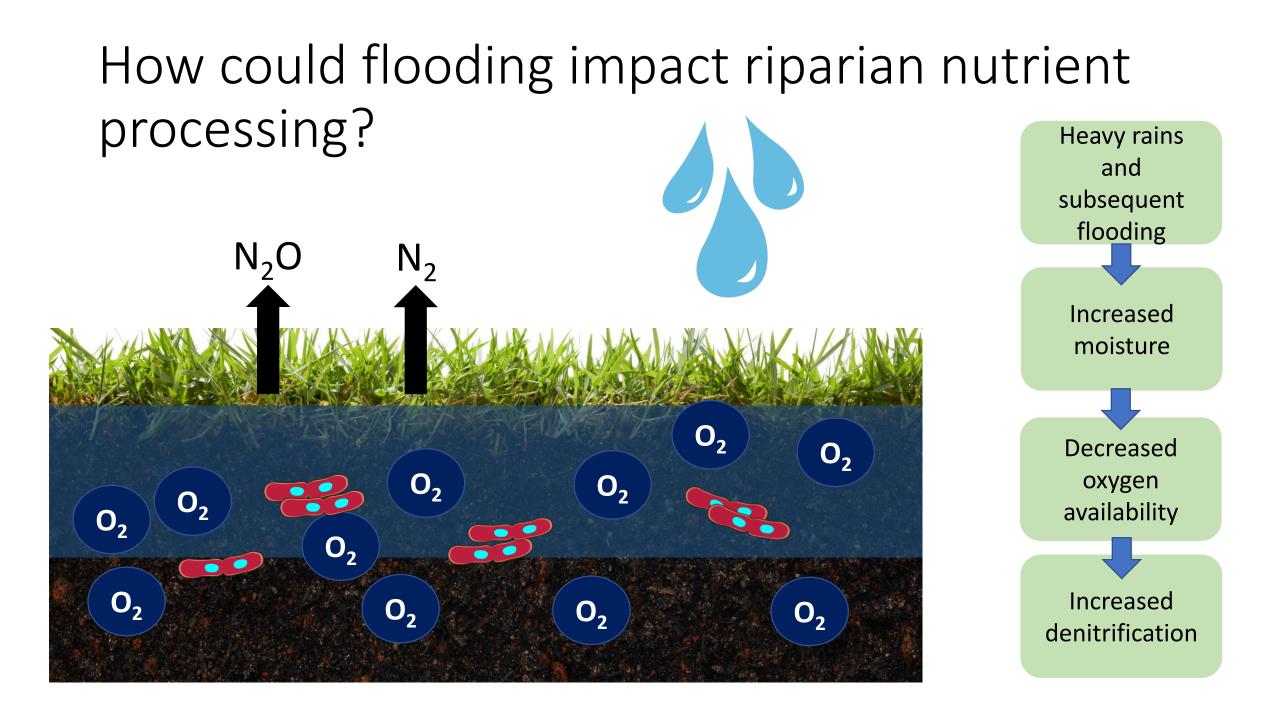
- Improve water quality of adjacent waterbodies
  - Reduce nutrient and suspended sediment loading from subsurface runoff
- Flood control
  - Reduce force, height, and volume of floodwaters

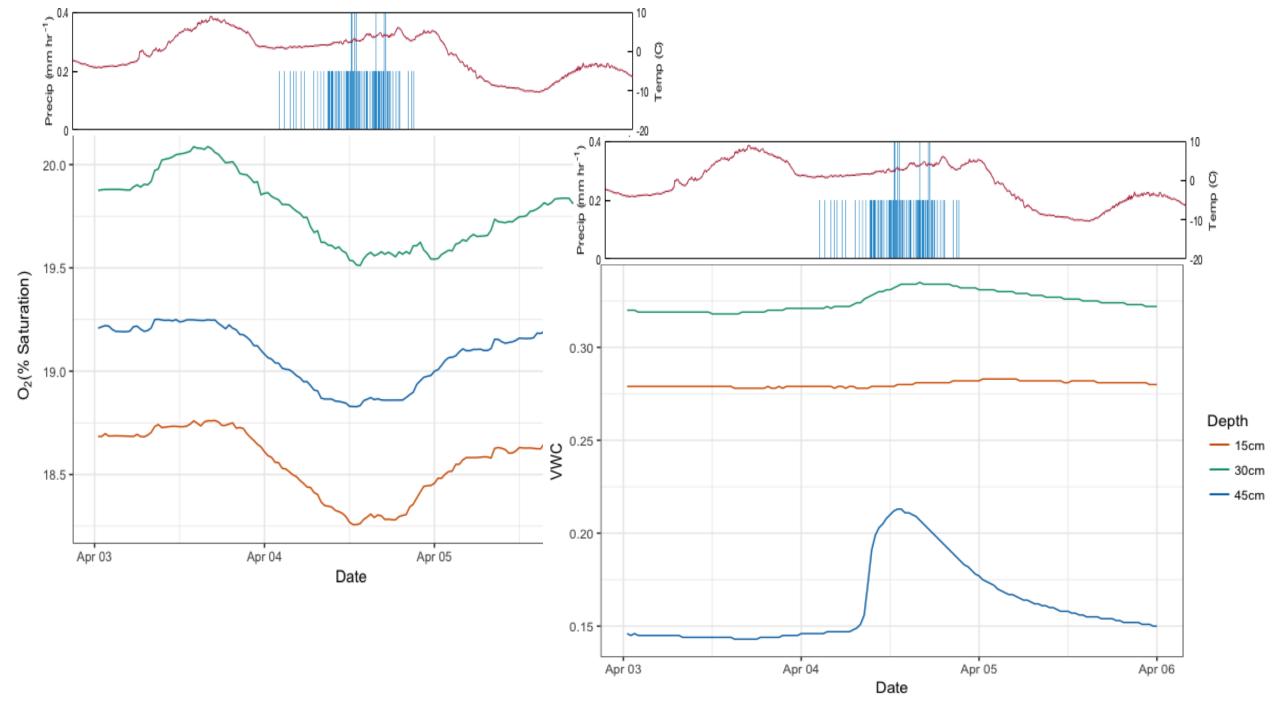
How will extreme weather events impact riparian nutrient processing?

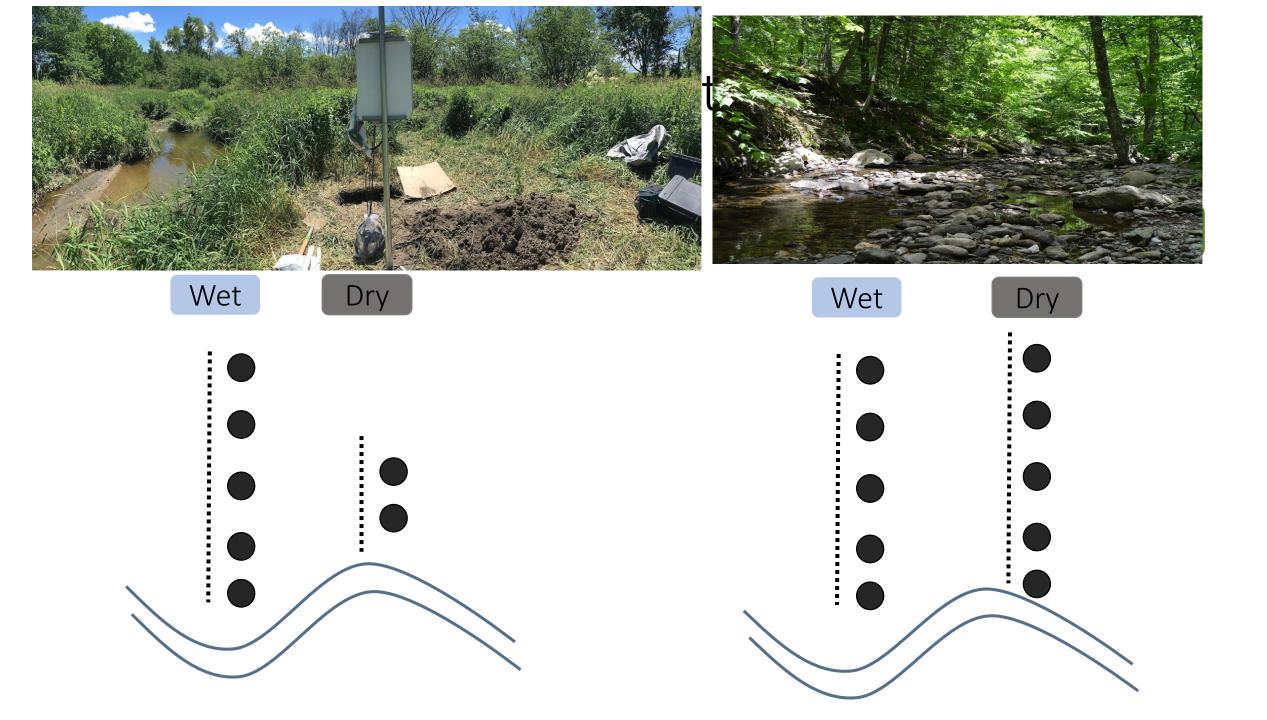
Carbon

Nitrogen

Phosphorus

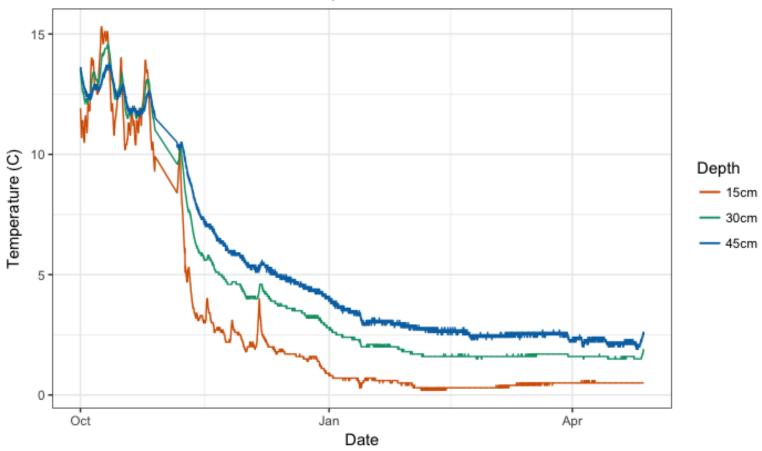






#### Soil sensor network

Wade Brook Wet Pit 1:Soil Temp.



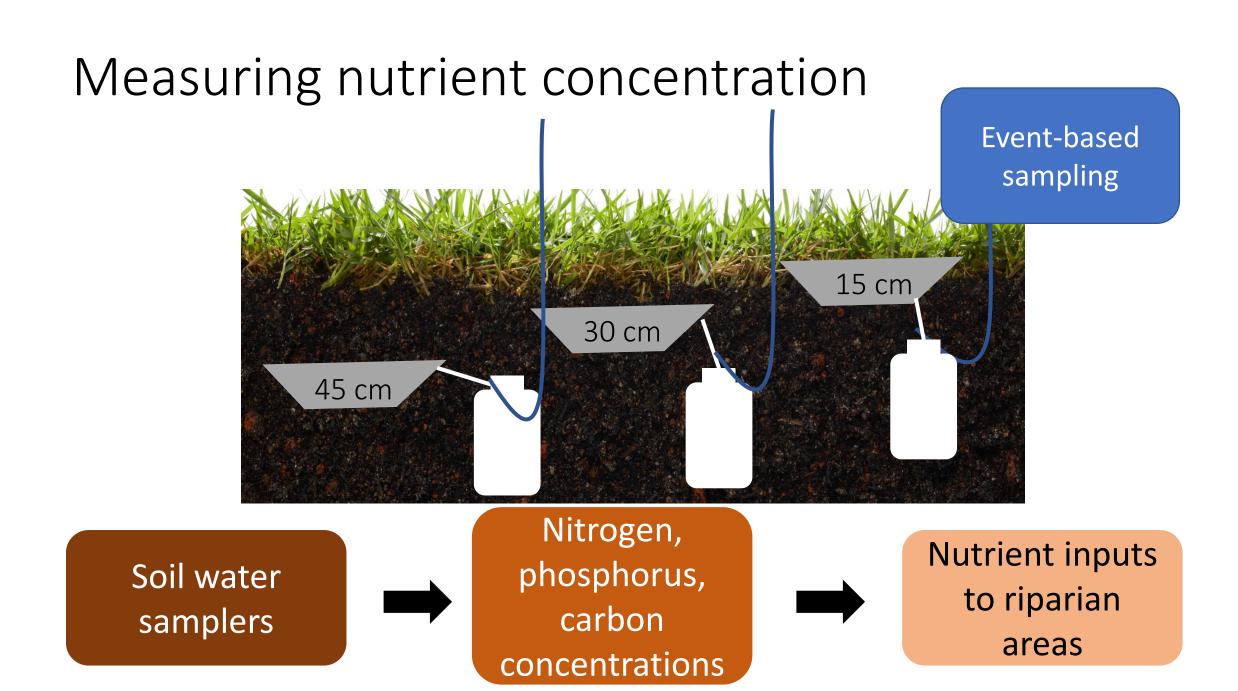


#### High frequency data

#### Soil sensor data

What are the soil conditions like before, during, and after extreme events?

Understanding of what is occurring biogeochemically



### Summary

Riparian ecosystems can reduce nutrient inputs to adjacent waterbodies



How will extreme weather events impact riparian nutrient processing?

