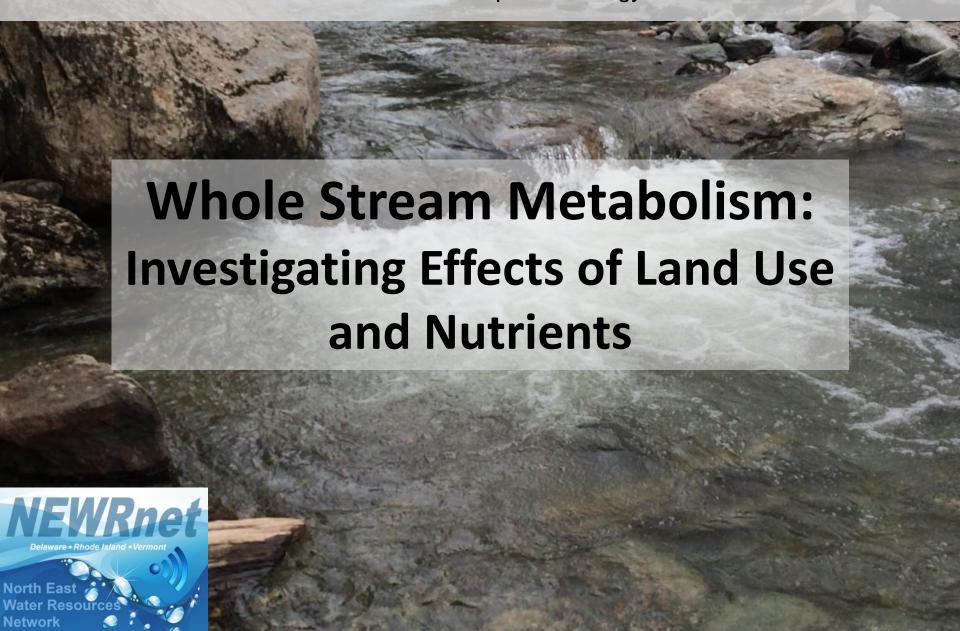
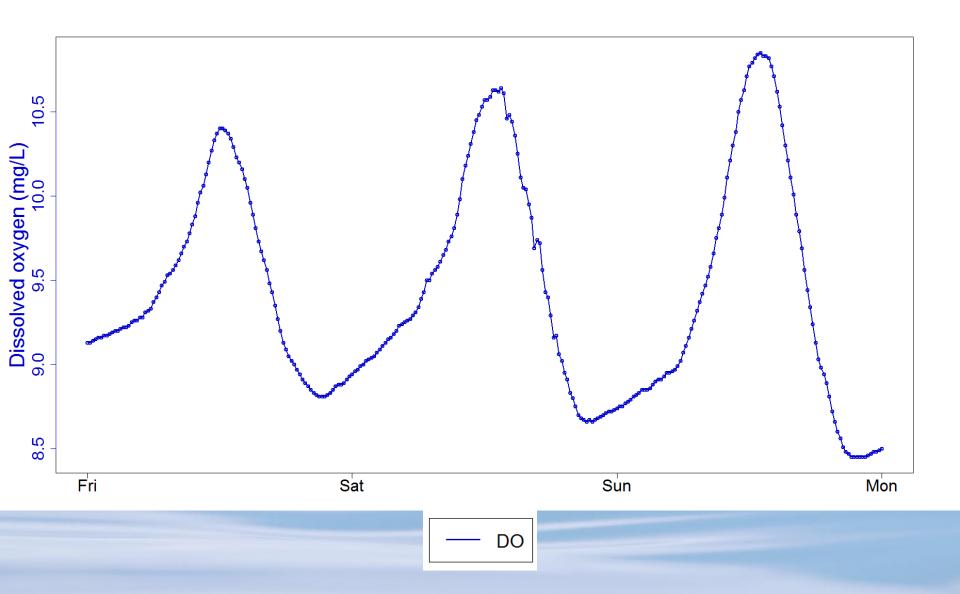
Ryan Sleeper UVM

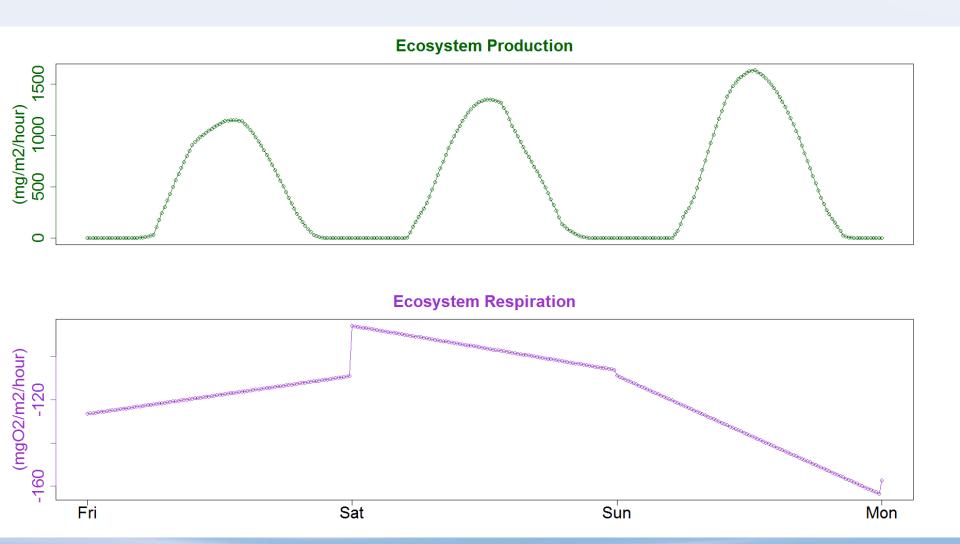
M.S Candidate in Natural Resources - Aquatic Ecology and Watershed Science



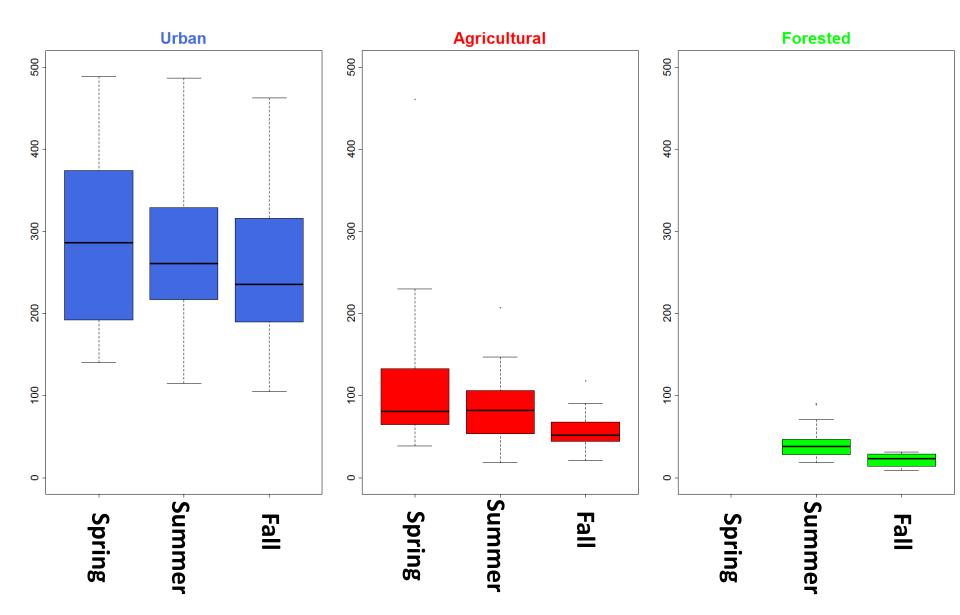
Dissolved oxygen concentrations fluctuate day-to-day



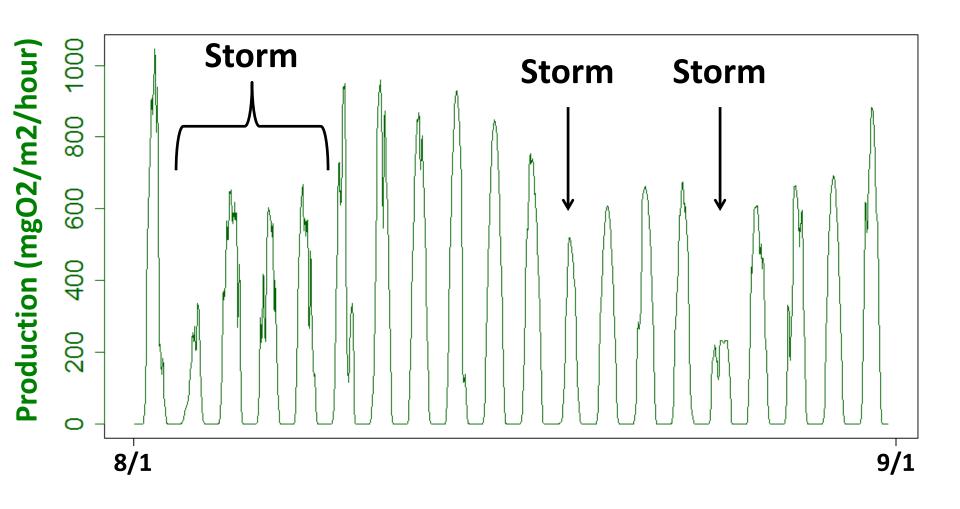
We are left with the biological controls on dissolved oxygen



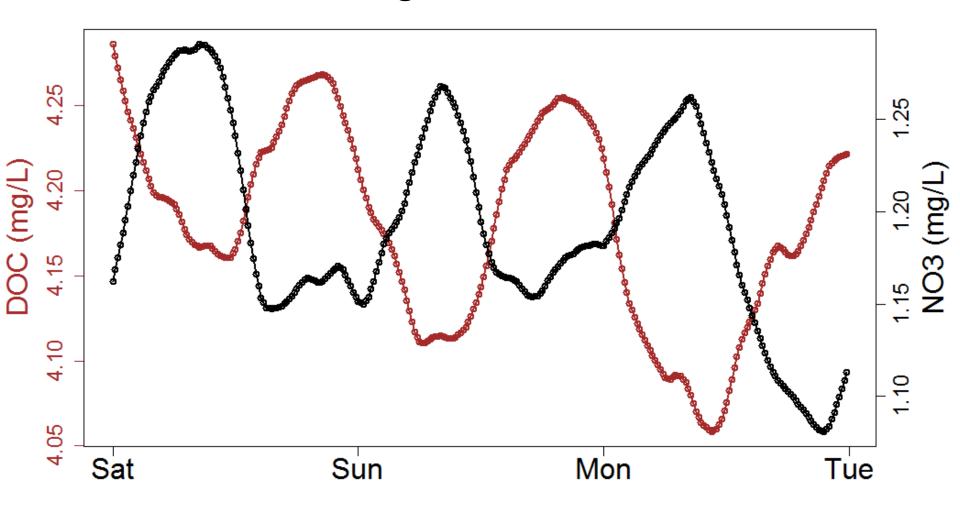
Ecosystem Production varies by season and stream



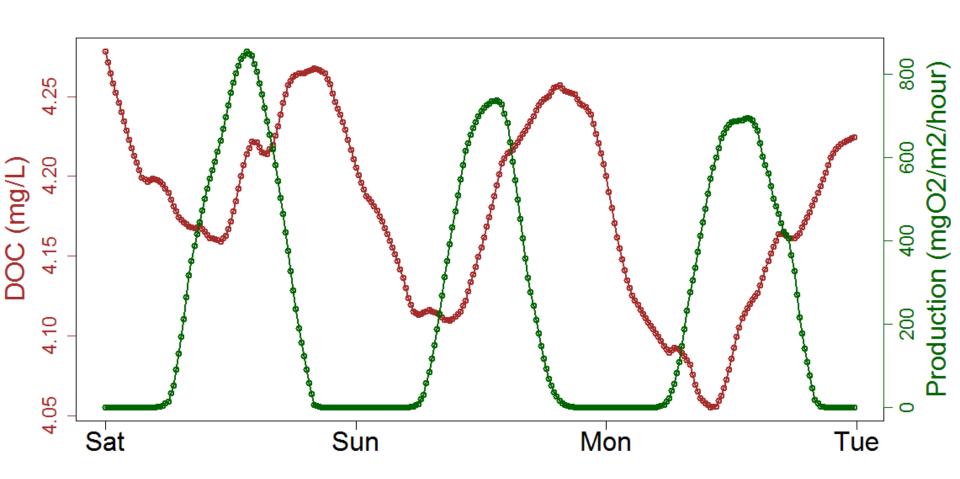
Storms can suppress production



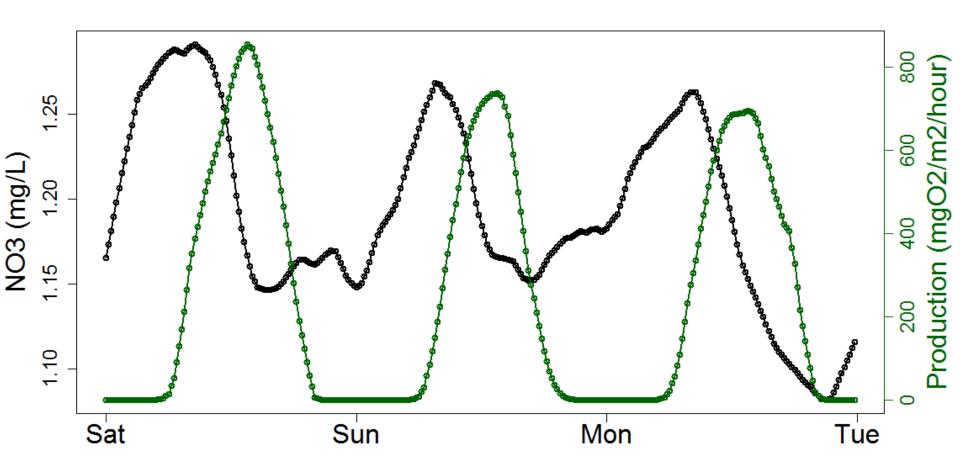
Similar to dissolved oxygen, we see daily cycles in dissolved organic carbon and nitrate



Hypothesis: DOC dynamics are being driven by photosynthetic waste

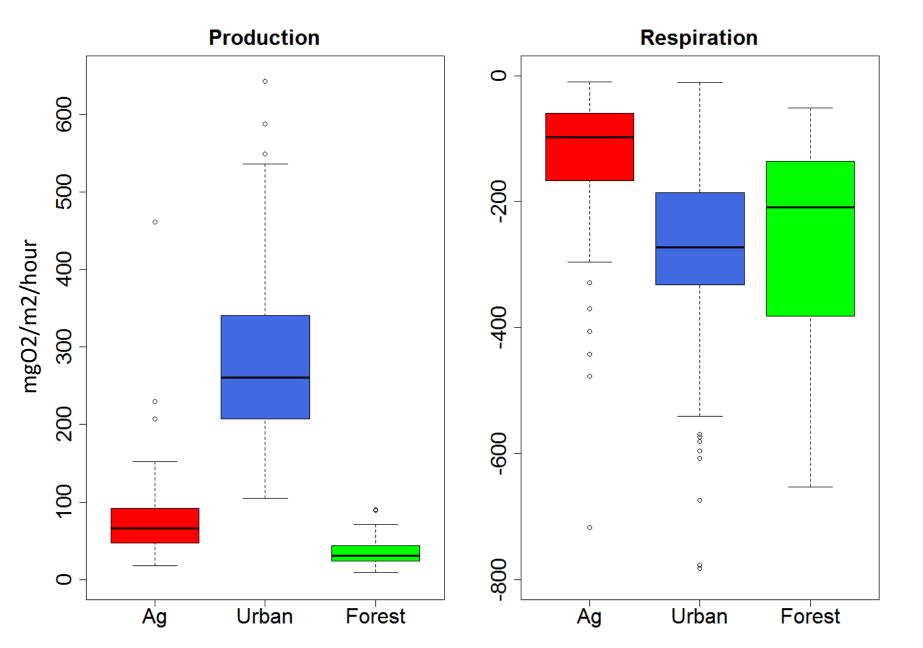


Hypothesis: Nitrate dynamics are being driven by productive uptake



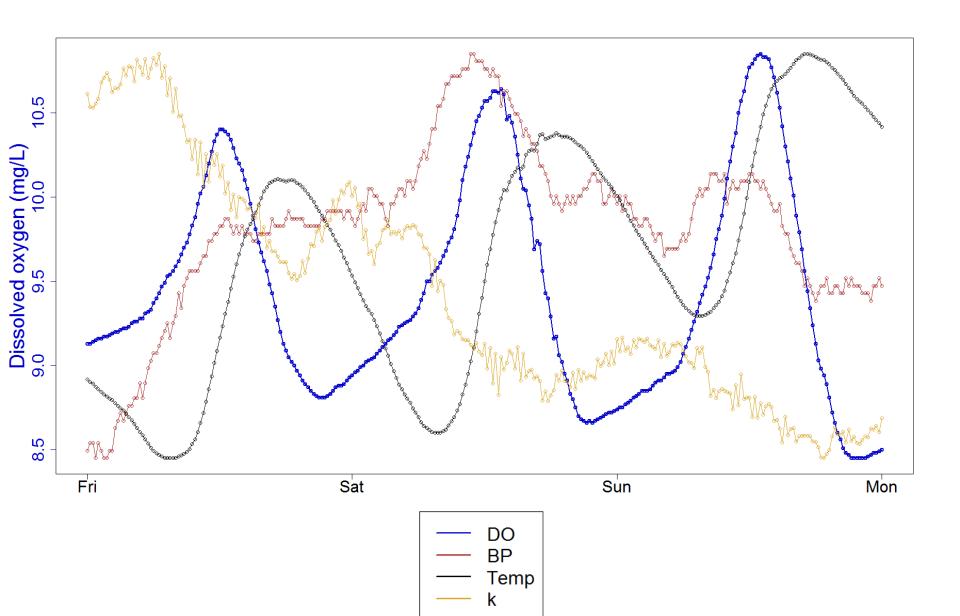


Overall metabolic differences exist between streams

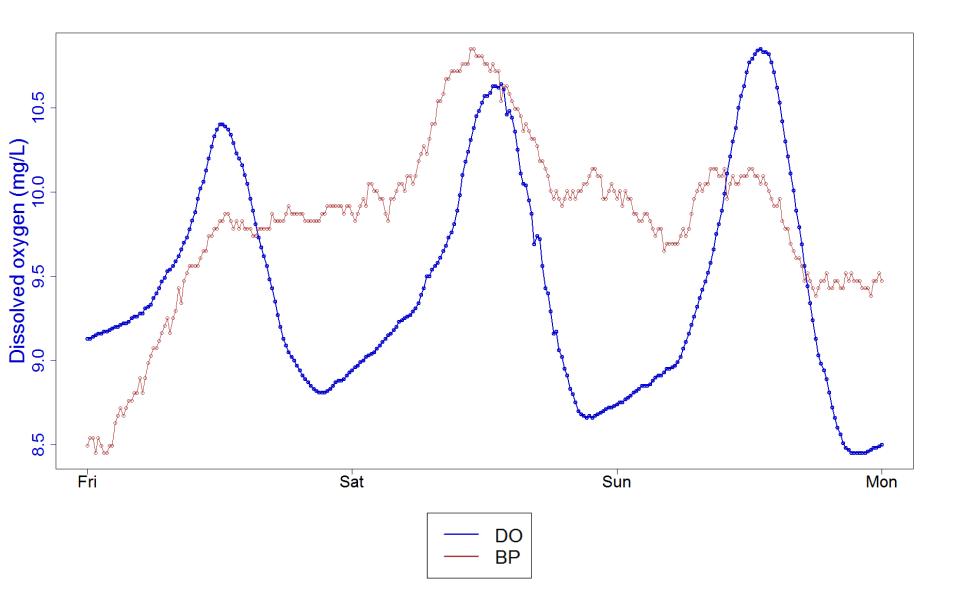


 Controls on N transformations in streams are of particular interest because N availability is increasing rapidly because of human activities (Vitousek et al. 1997) and streams are hot spots of N uptake and retention within landscapes (Alexander

We remove the effects of these physical variables



Physical variables also effect dissolved oxygen levels



Physical variables also effect dissolved oxygen levels

