



University of New Hampshire

# Fall 2020 Environmental Sciences Seminar Series

## Wednesday, October 7

2:30–3:30pm Online via Zoom—Register [here](#)

**Meredith Holgerson**

Assistant Professor, Ecology & Evolutionary Biology, Cornell University  
*The Importance of Ponds to Global Carbon Budgets*

Ponds less than a hectare in size make up >95% of the world's lakes, yet small waterbodies are vastly understudied compared to lakes. My previous research found that ponds have high CO<sub>2</sub> and CH<sub>4</sub> emissions, and play a disproportionately large role in the global carbon budget for inland waters. More recent research continues to show that ponds are high greenhouse gas emitters across urban, forested, and agricultural landscapes. Yet, ponds are also one of the most uncertain aspects of the global carbon budget. We have poor knowledge of the global abundance of ponds, we are hampered by a limited sample size, and studies have been biased towards summer sampling. I will discuss efforts to improve our knowledge of greenhouse gas emissions from ponds, including a global sampling campaign.



*Seminar Host: [Clarice Perryman](#), NRESS PhD Candidate*

*Series sponsored by the Natural Resources and Earth Systems Science (NRESS) Ph.D. Program, in partnership with the Earth Systems Research Center, and the Natural Resources and the Environment and Earth Sciences Departments.*

**Free - All are Welcome**

**Full Series and Registration [HERE](#).**