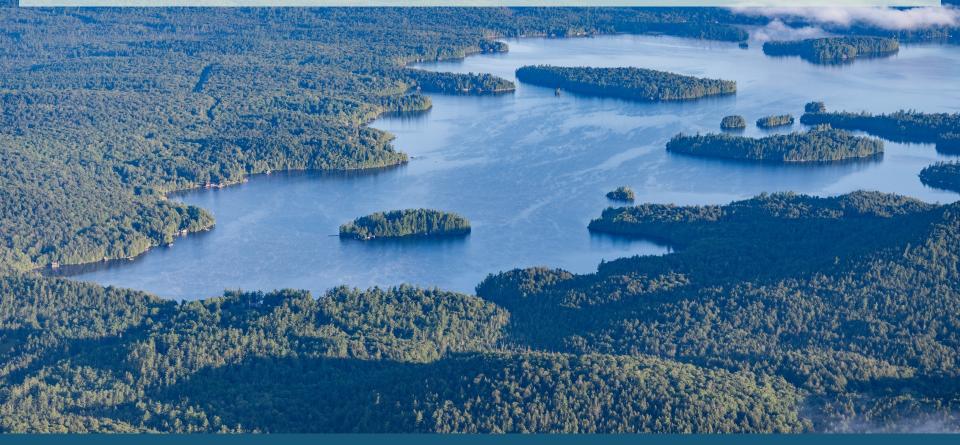
Adirondack Lakes In A Warmer Future



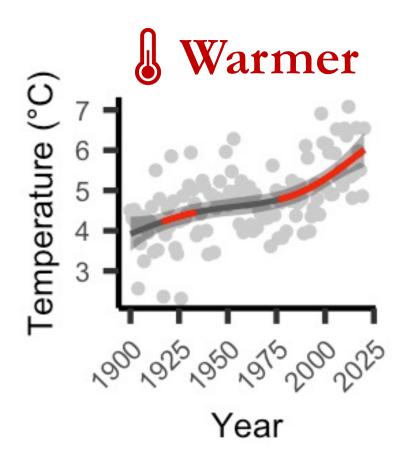
Brendan Wiltse, PhD Senior Research Scientist



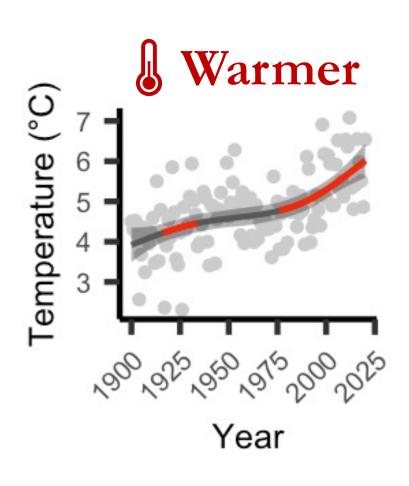
www.adkwatershed.org bwiltse@paulsmiths.edu

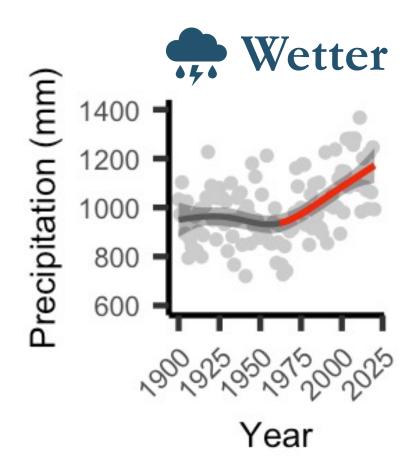
How is the climate in the Adirondacks changing?

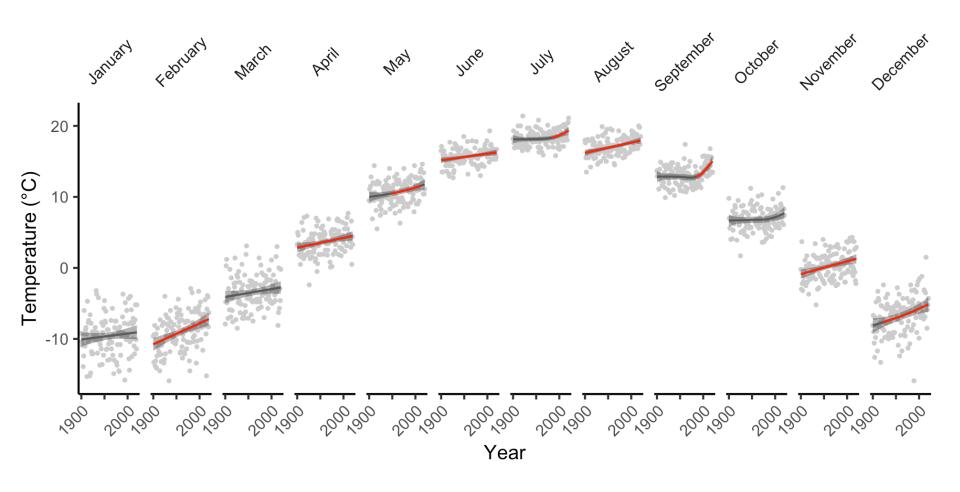
How is the climate in the Adirondacks changing?

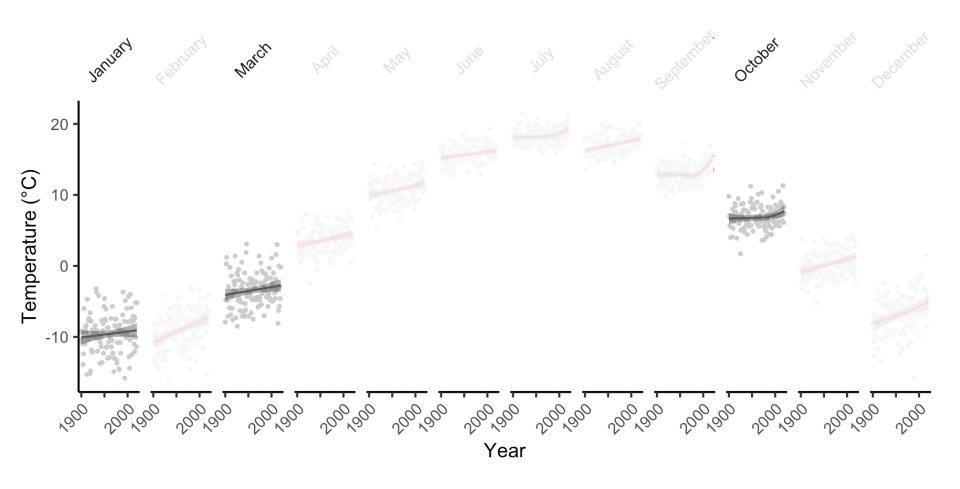


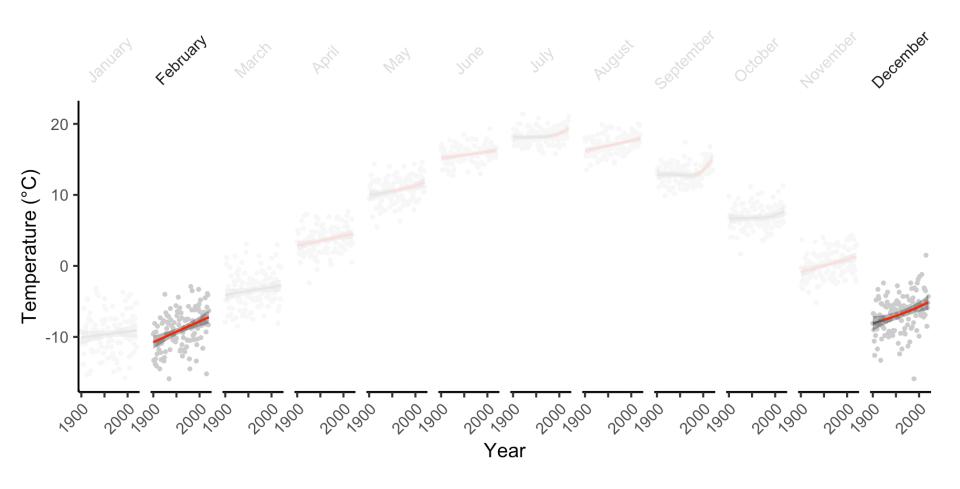
How is the climate in the Adirondacks changing?

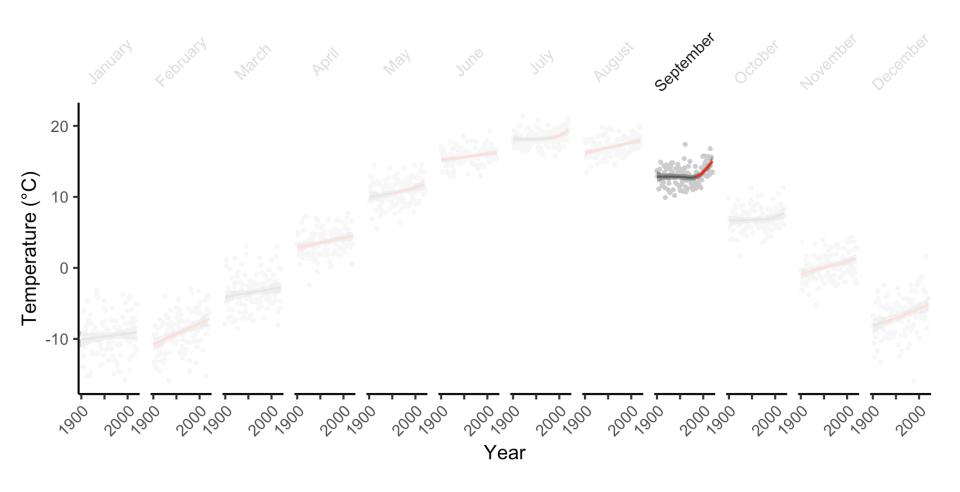




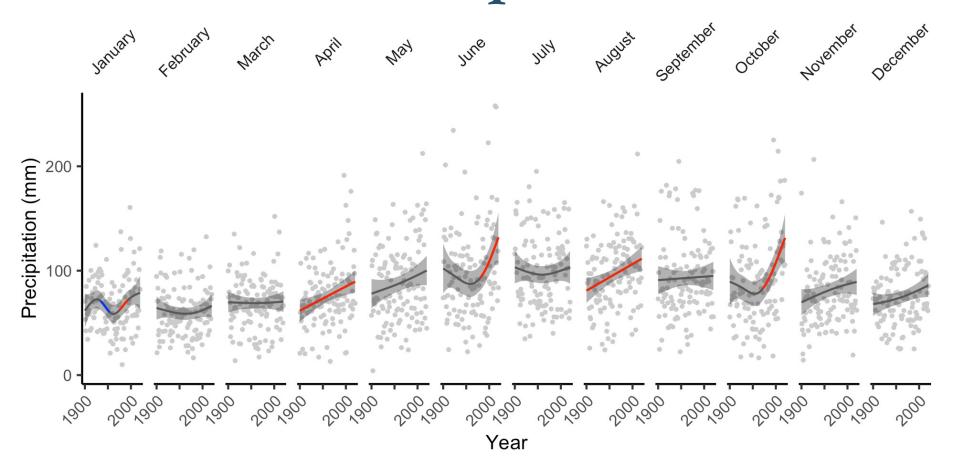








Precipitation Is More Complex

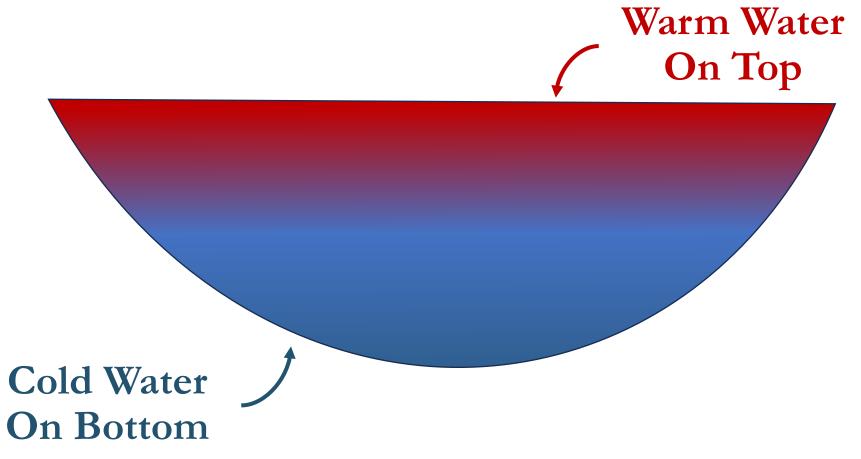


How Does This Affect Adirondack Lakes?

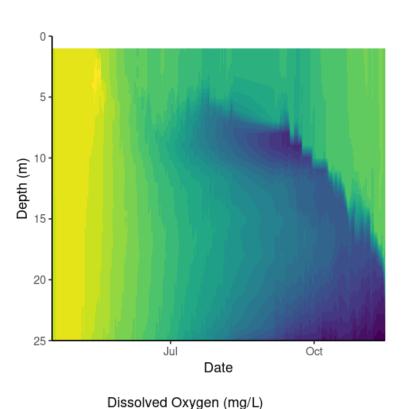
How Does This Affect Adirondack Lakes?

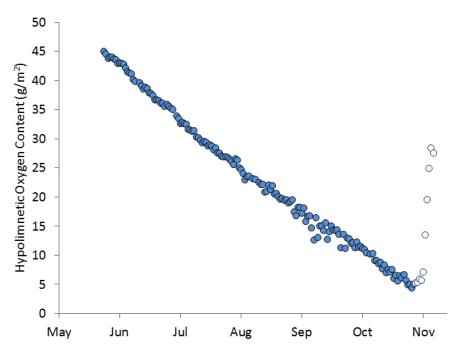


Less Ice \$\square\$ Prolonged Stratification

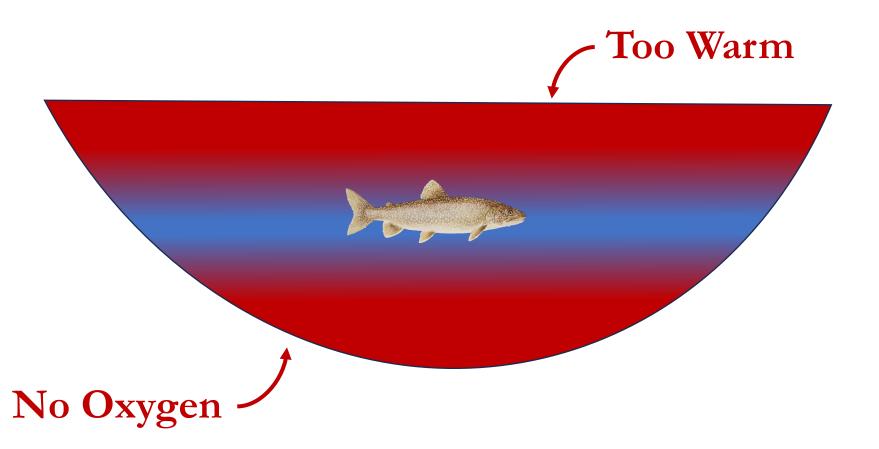


Prolonged Stratification Less Oxygen

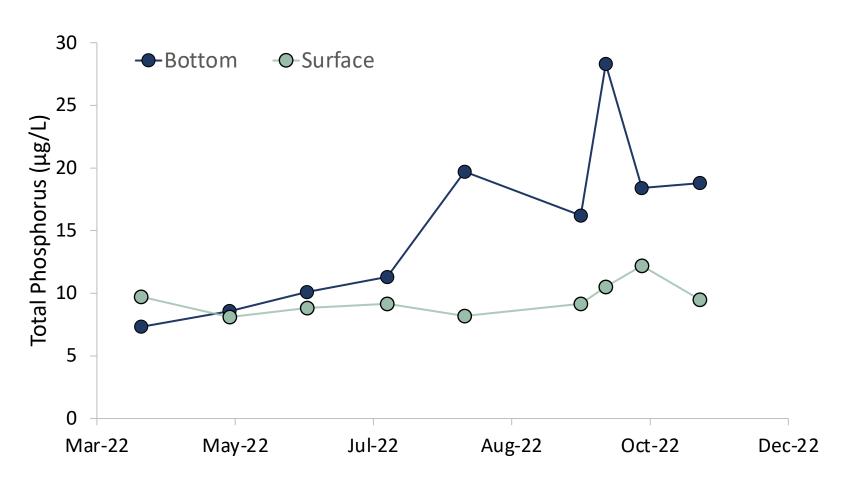




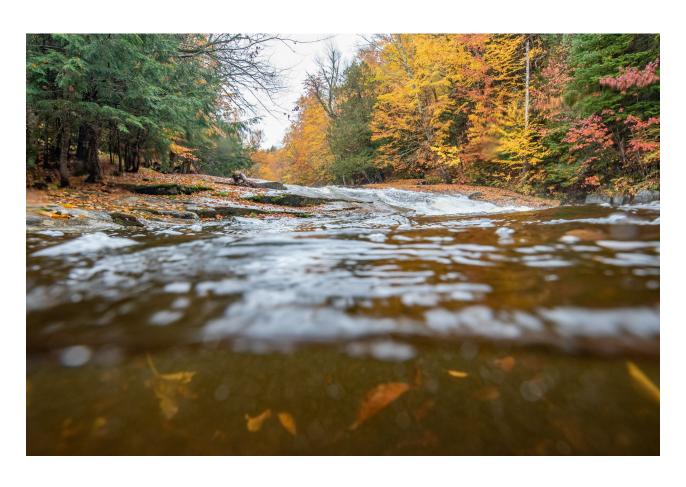
Prolonged Stratification Less Oxygen

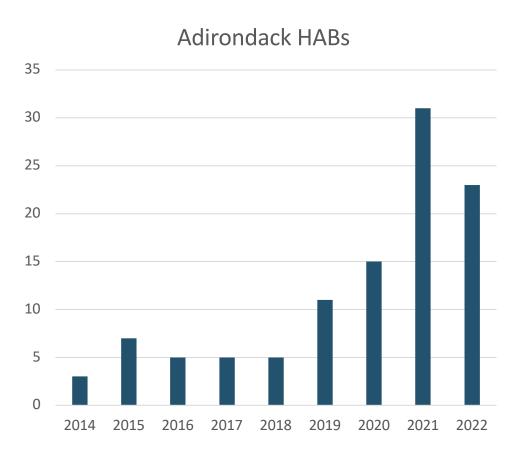


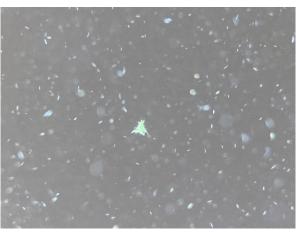
Less Oxygen More Nutrients

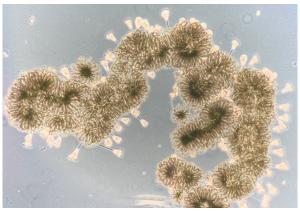


More Rain More Nutrients





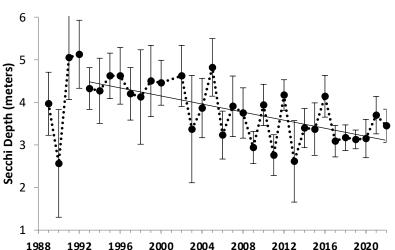




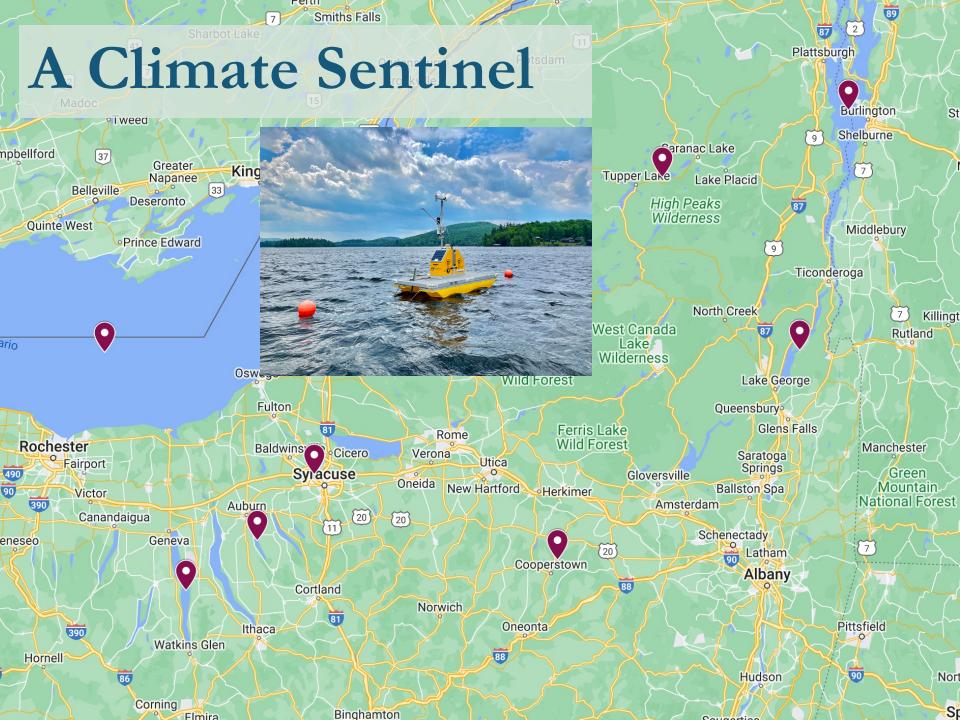
Acid Rain Recovery + Warming + Wetting Lake Browning

Lake Browning







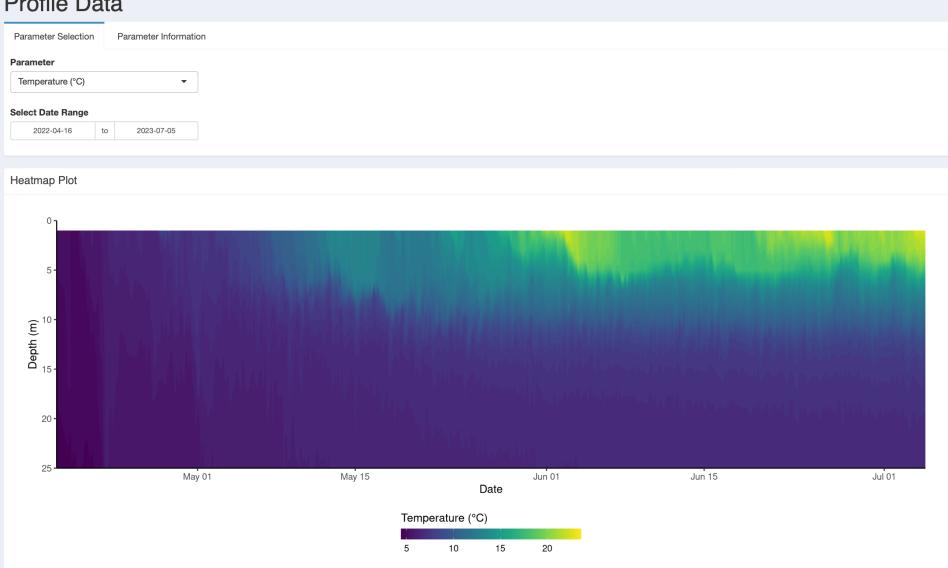








Profile Data

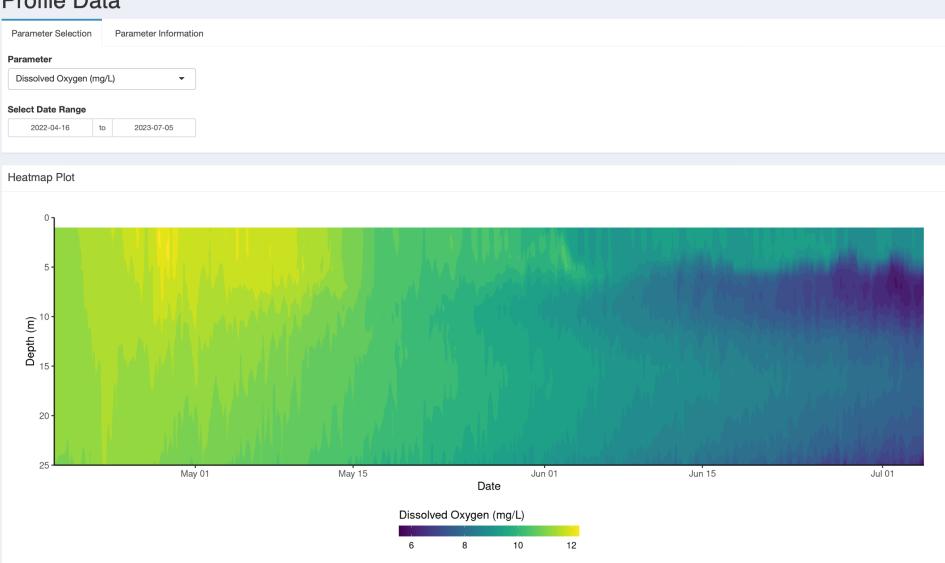








Profile Data

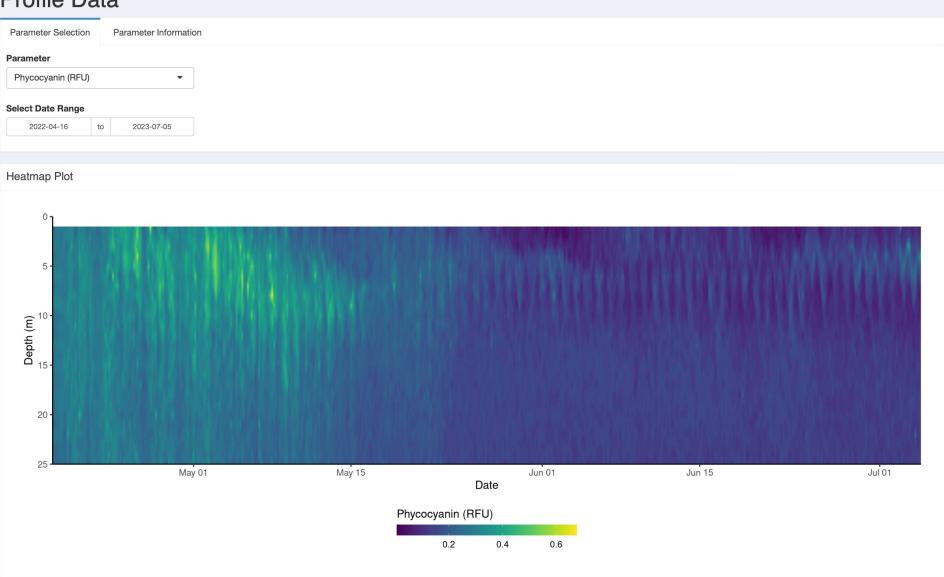


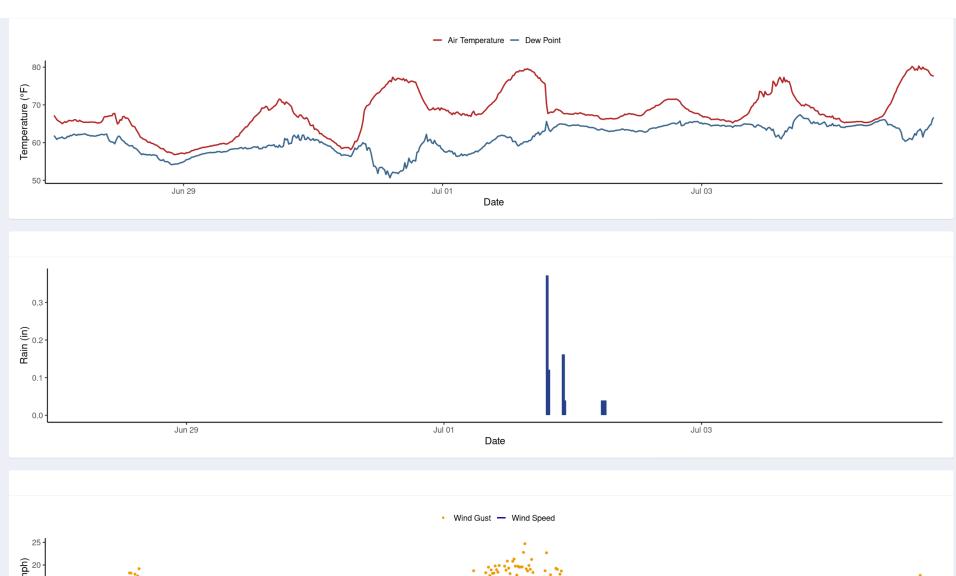


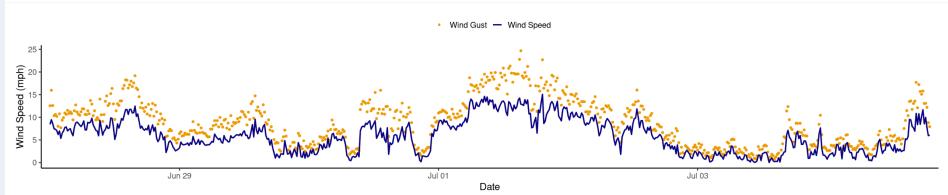




Profile Data







A HAB Early Warning System



How Is Climate Change Affecting Adirondack Lakes?

- Less Ice Cover
- Warmer Water
- Prolonged Stratification
- Less Oxygen
- Reduced Habitat for Cool/Coldwater Fish
- More Nutrients
- More Harmful Algal Blooms





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