

Experimental Program to Stimulate Competitive Research

BREE 2017 Algal Bloom Updates Missisquoi and St. Albans Bays Andrew Schroth/Ecological Team



Saint Albans/Missiquoi Bay Advanced Biogeochemical and Hydrodynamic Observatory



Measure-ChIA/PC, T, Cond, pH, DO, FDOM, Turbidity every hr. at 0.5 meter depth intervals at 3 Sites



Late Blooms!



St. Albans Inner



Why Were They Late? Cool Water Temperatures?



Jun

Jul

Aug

Sep

Oct

Nov

Why Were They Late? Stormy Summer and Delayed Stratification?





Why Were They Late? Stormy Summer and Delayed Stratification?







St Albans Bay DO Stratification



Outstanding Analyses

- Comparisons across sites are incomplete and semi quantitative (PC)-biovolumes
- How was water moving?
- Hydrodynamics
- Analysis of wind speed and orientation
- What was there?
- ISCO nutrient time series
- Weekly dissolved nutrients and metals
- Who was there?
- Bloom species composition