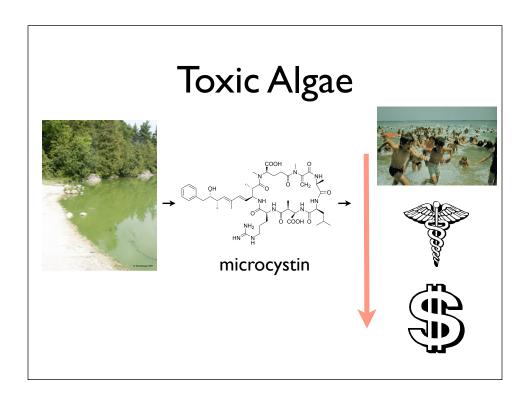
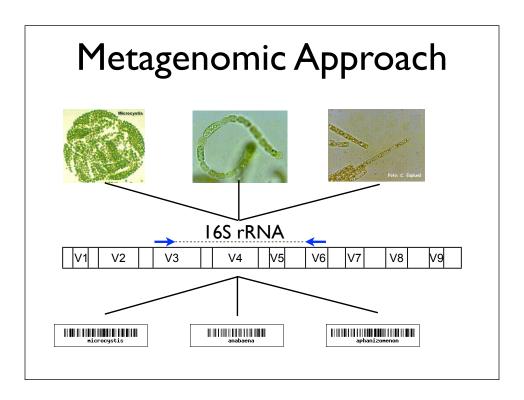
Metagenomic Survey of Blue-Green Algae

A Pilot Project of the NECC

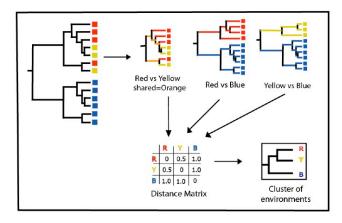


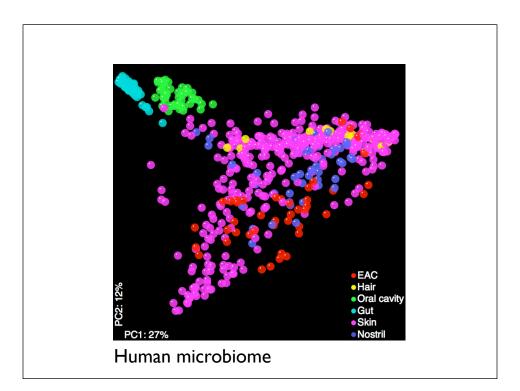


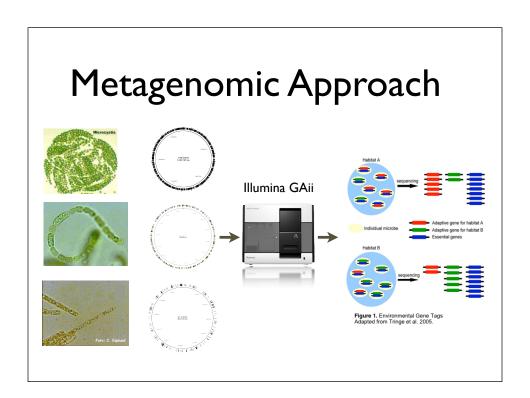
Why and how do cyanobacteria dominate?

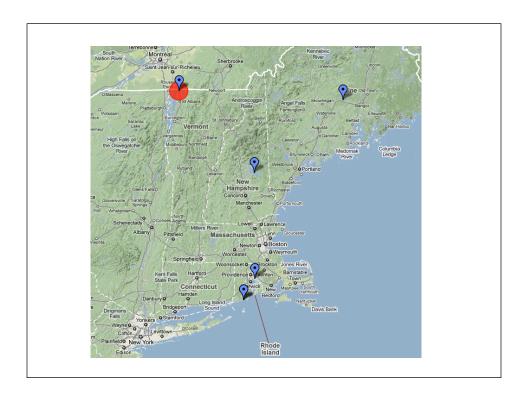


Compare samples















Pat Pearson

Sample Collection

- Once per week at each location
- Three replicates each time
- Same time, location each week

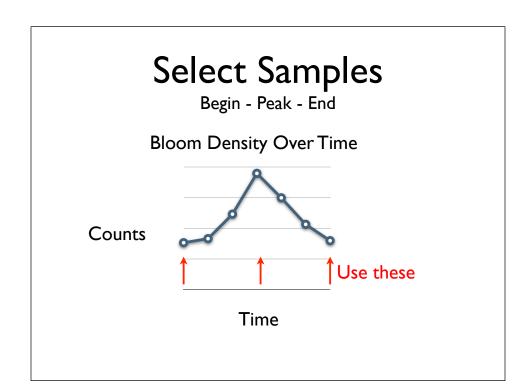
Sample Collection

	VT	NH	ME	RI a	RI b	RI c	
Month I	12	12	12	12	12		60
Month 2	12	12	12	12	12	12	72
Month 3	12	12	12	12	12	12	72
Totals	36	36	36	36	36	24	204

~ 200 samples x 6 preps each = Lots Of Work

Sequencing

- 16S region sequenced by 454 (1 plate)
- full DNA sequenced by Illumina (13 lanes)



Your Job

Tell a story about the blooms

Class Project

- use BLAST to identify sequences
- write python program to analyze BLAST results
- write shell scripts to run jobs
- summarize, say something interesting