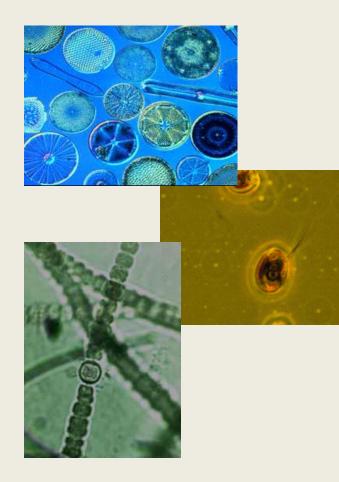
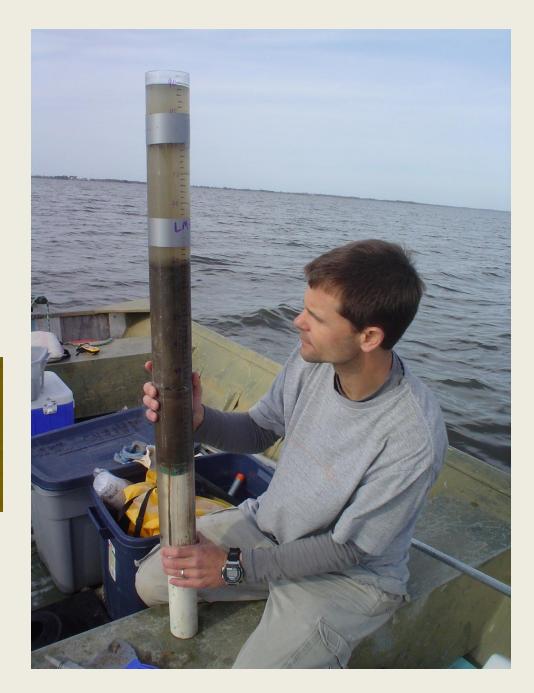


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John White, 1590

Working forward from the past...



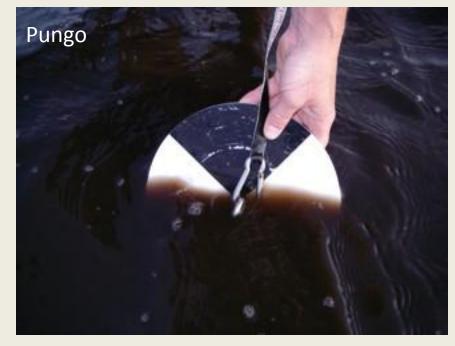


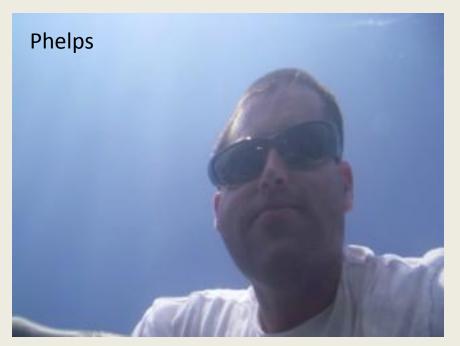


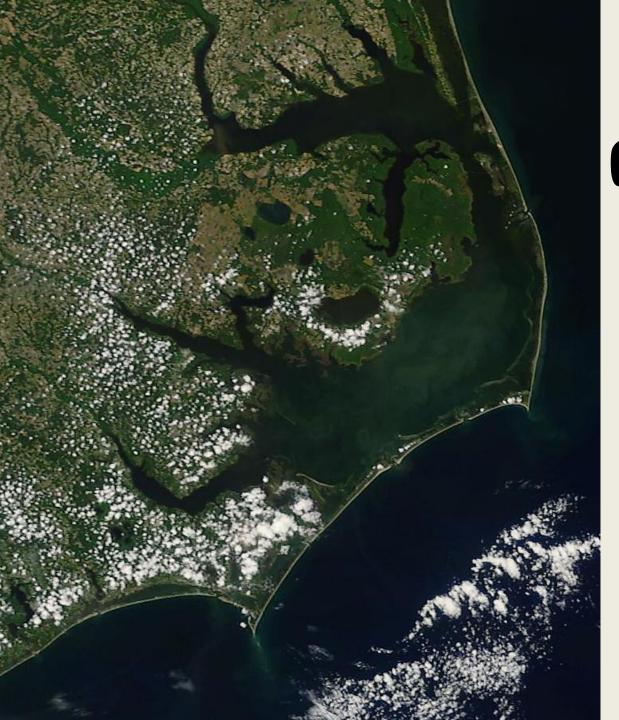
West Mattamuskeet



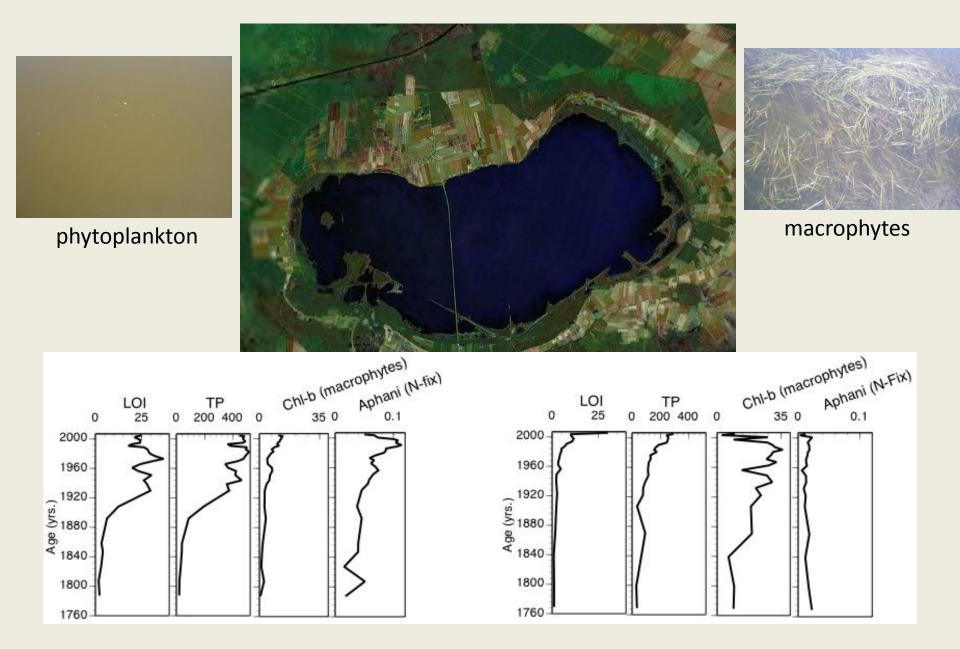








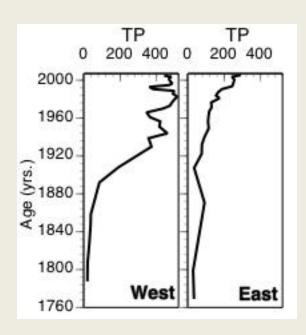




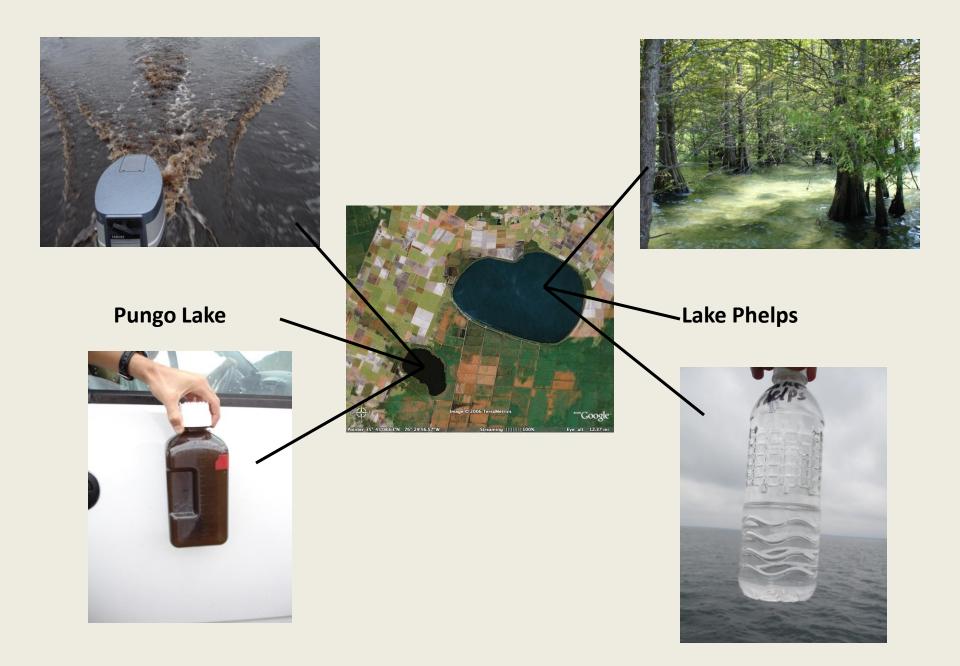
Waters et al., 2010, Freshwater Biology

Possible Mechanisms

- Organic Matter and Nutrients
 - Internal Loading/processing
 - Waterfowl
- Hydrology



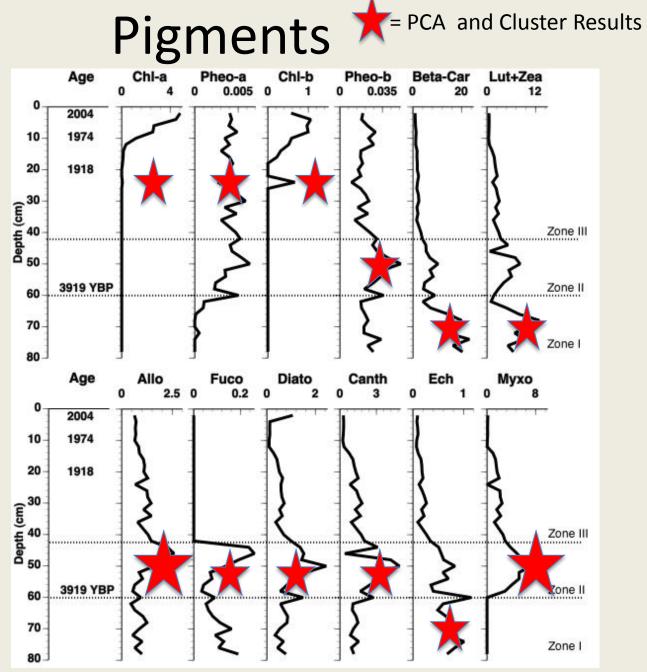


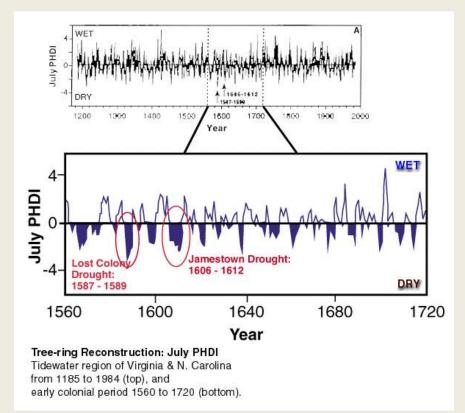


Pungo Lake

<u>Klug, 2000</u> Mesocoms: cryptophytes and cyanobacteria

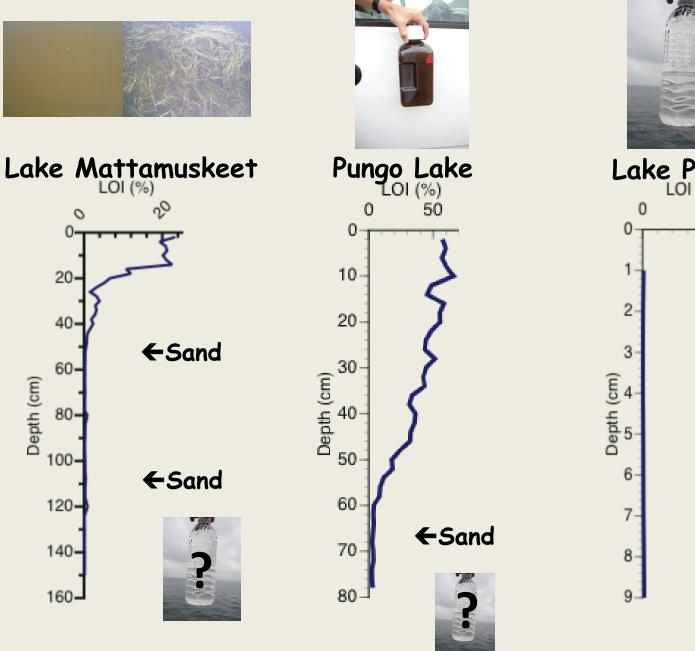
<u>Klug and Cottingham, 2002</u> Whole lake: cryptophytes and cyanobacteria

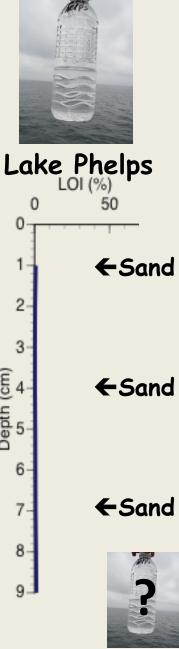




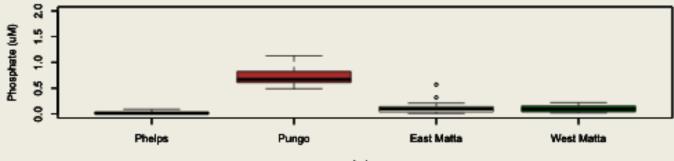


Stahle et al., 1998 Science

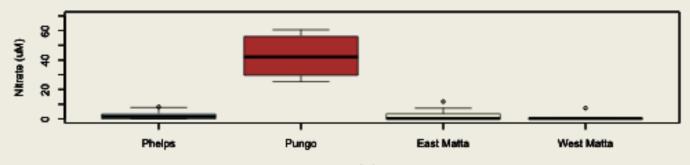




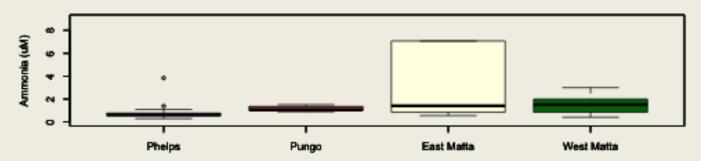


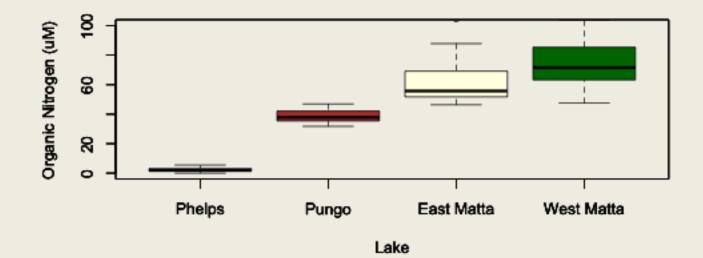


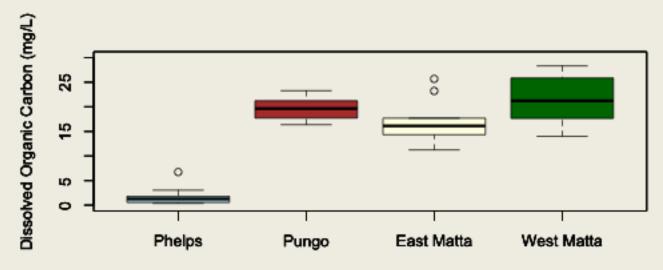


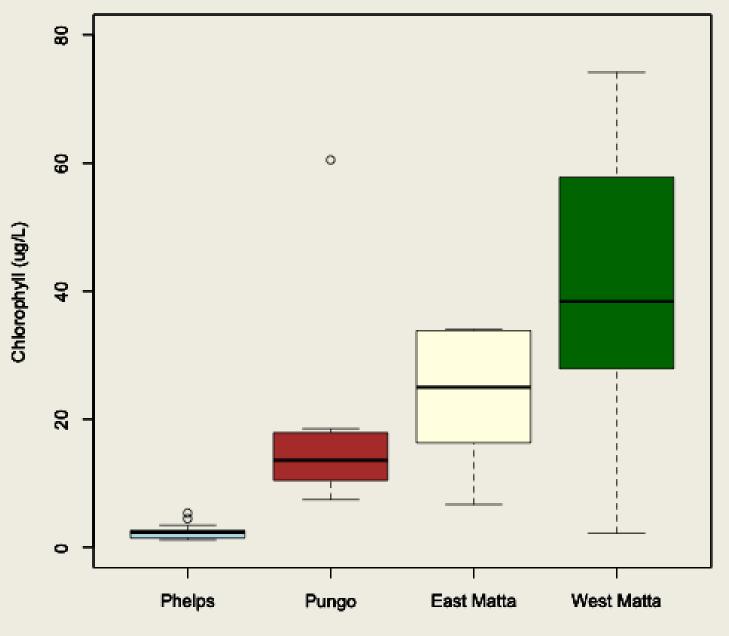


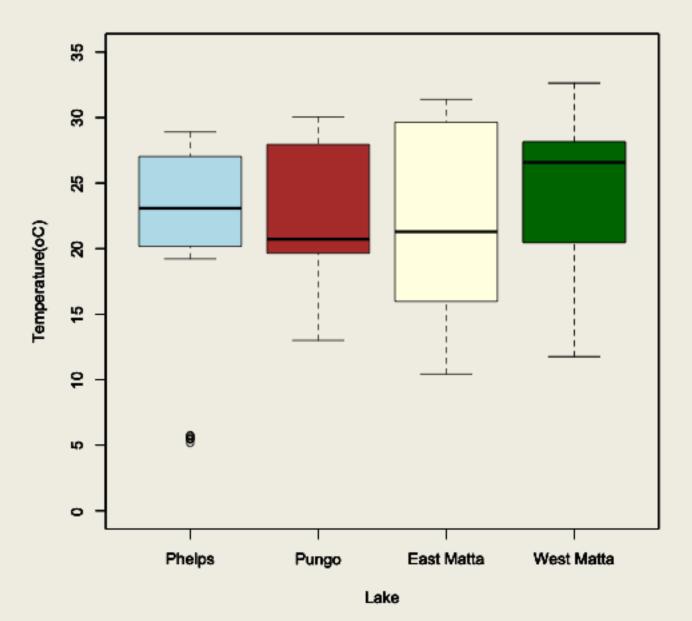


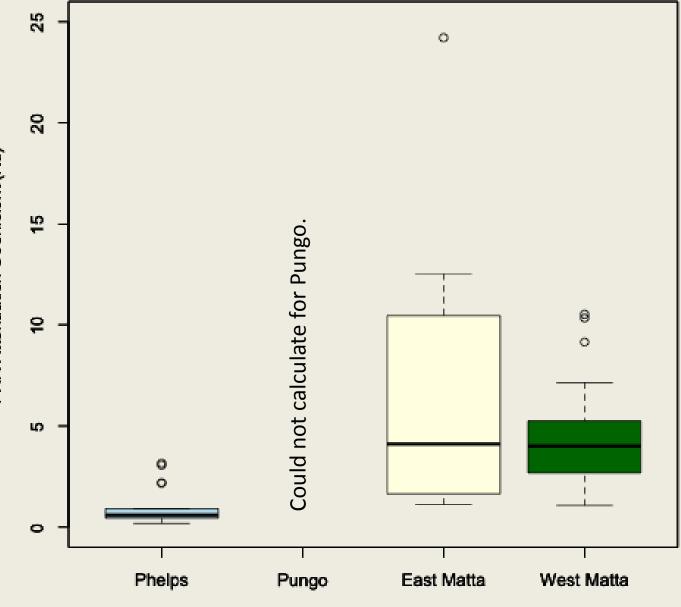




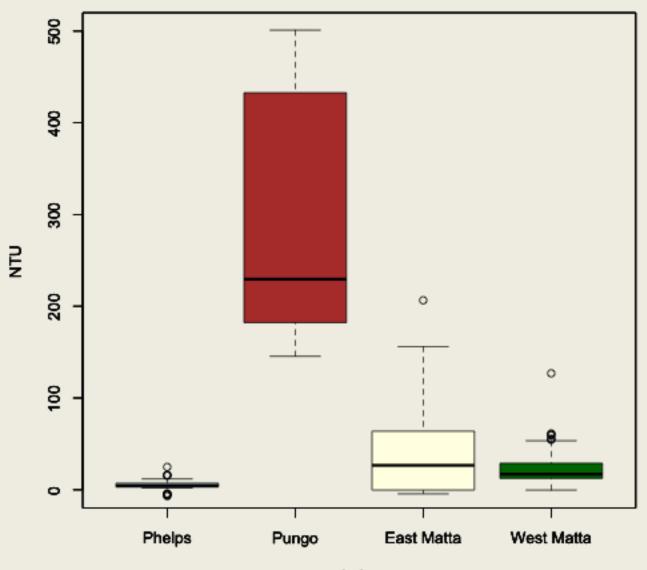


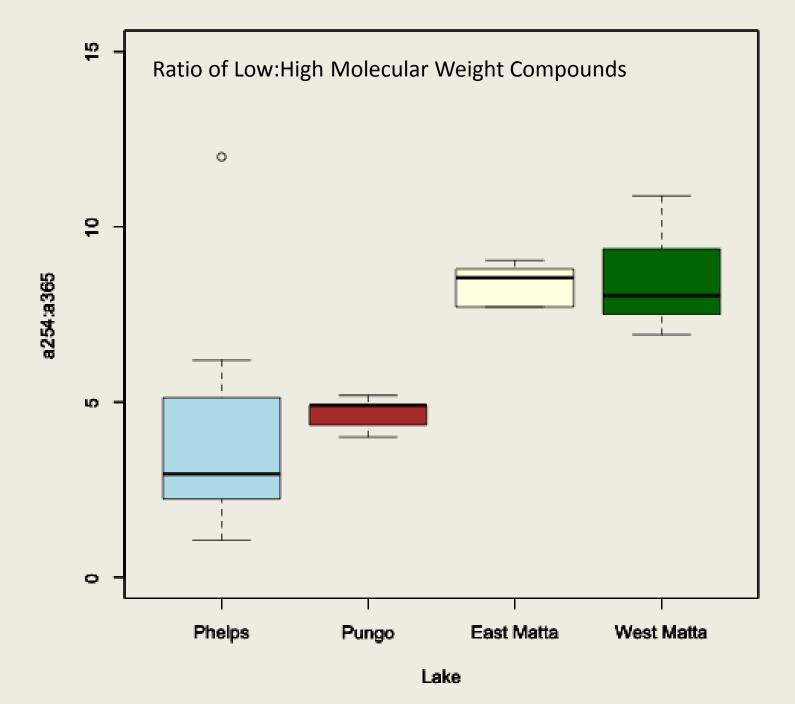


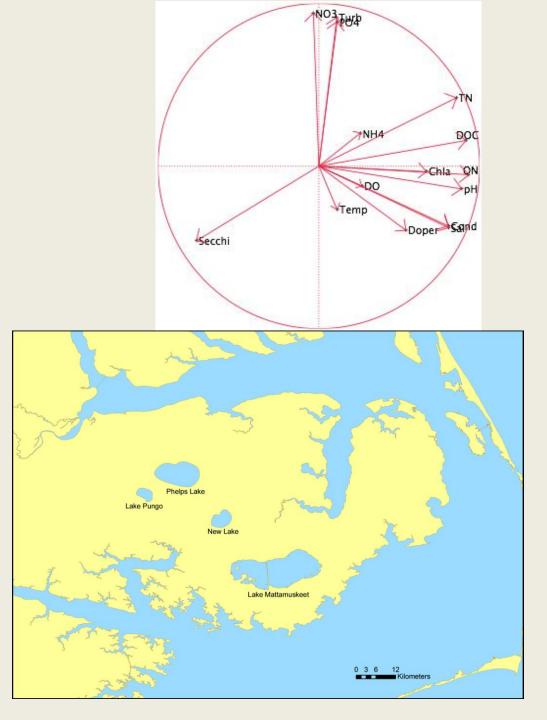


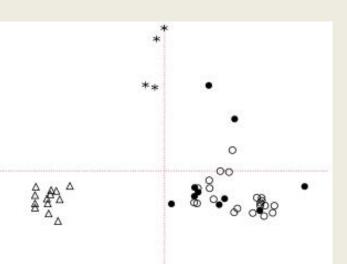


PAR Attenuation Coefficient (Kd)









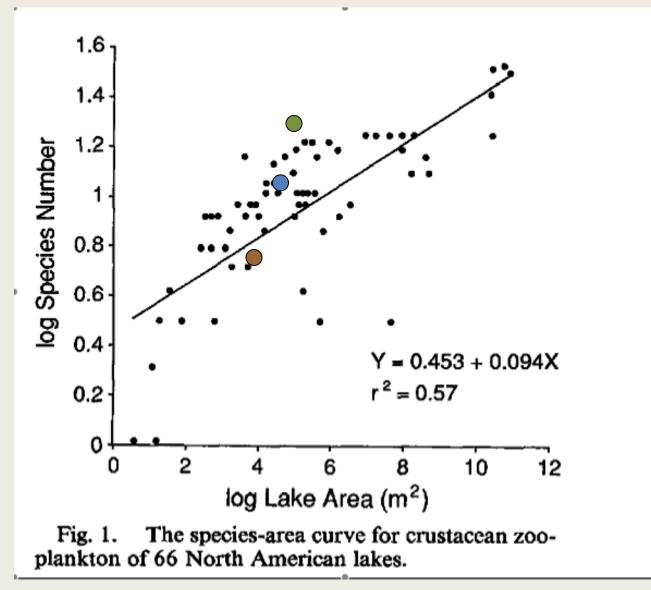
The x-axis is PC 1 and the y-axis is PC2. Stars are pungo, open circles are Matta-east, closed-Matta-west and triangles are Phelps

	Pungo	Phelps	E. Matta	W. Matta
Rotifers				
Asplanchna sp.		X	X	x
Brachionus sp.			X	x
Keratella cochlearis		D	X	x
Keratella quadrata			D	x
Keratella taurocephala		D		
Kelicottia sp.			X	D
Ploesoma sp.		D	X	D
Polyarthra sp.		D		X
Trichocerca sp.		D	D	x
Copepods				
Large Cyclopoid	D	X	X	D
Small Cyclopoid	D		X	D
Calanoid Copepod			X	D
Cladocerans				
Bosmina sp.	X	D	D	x
Diaphanosoma sp.	X	X	x	x
Leptodora sp.			x	x
Ostracods		D	x	x

X = present

D = dominant

Species Richness



Dodson 1992

Where to now?

Whole system paper (Leech et al)

Modeling N cycling (Piehler, Christian et al)

Food webs (Leech et al)

Phytoplankton dynamics (Piehler et al)

Search for funding to keep working in this cool system (al)

