

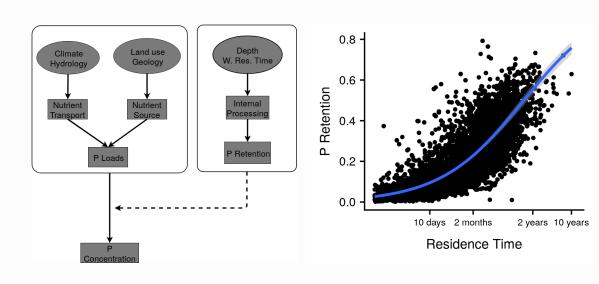
Does Lake and Stream Connectivity Control Phosphorus Retention in Lakes?

Joseph Stachelek and Patricia Soranno University 2018 June Michigan State

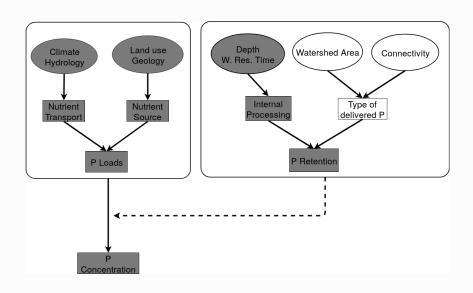
P RETENTION IS IMPORTANT AND WELL-STUDIED

- · Figure
- · Lit citations

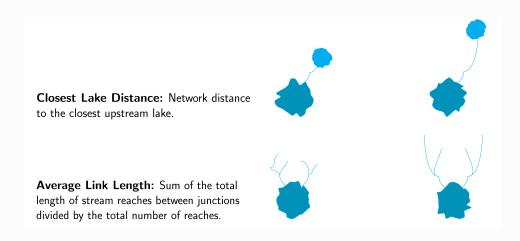
P RETENTION IS NOT JUST ABOUT WATER RESIDENCE TIME



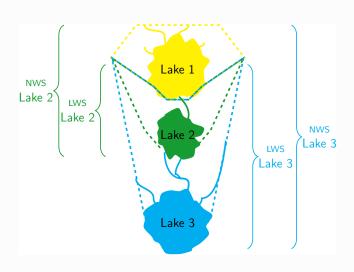
WHAT ARE SOME OTHER POTENTIAL CONTROLS ON P RETENTION?



MULTIPLE WAYS TO DEFINE CONNECTIVITY



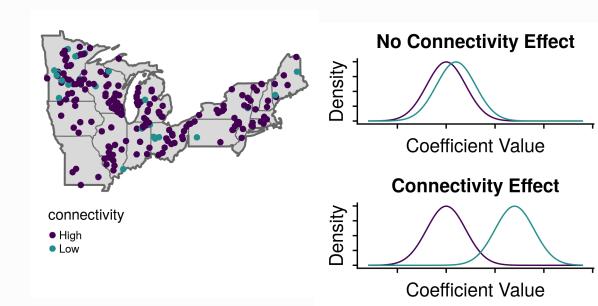
WHAT IS AN APPROPRIATE SCALE FOR MEASURING CONNECTIVITY?



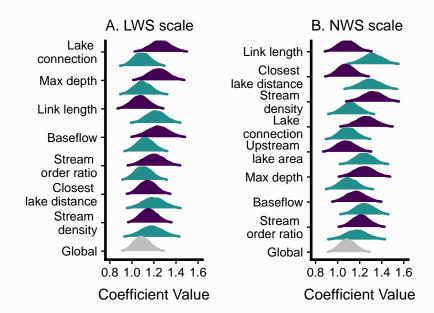
Does connectivity of lakes and their watersheds influence lake phosphorus retention?

What is the relative importance of different connectivity types in determining lake P retention and what spatial extents are most important for connectivity and P retention?

METHODS

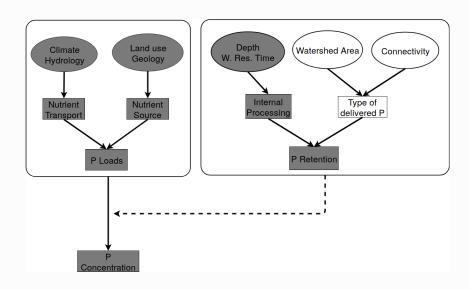


FINDING 1





CONCLUSION





- · Watershed controls on P delivery to lakes
- · WS:LA ratio

FONTS AND SPACING

The document uses the Google Crosscore family

Main body Tinos or Arimo

Maths Tinos

Code Cousine

The linespread value has been increased to about 1.3

SERIF FONT THEME

The default font theme is sans serif. You can change the template/pl.tex first line to:

```
@@ -1,4 +1,4 @@
-\documentclass[11pt, compress, aspectratio=1610]{beamer}
+\documentclass[11pt, compress, aspectratio=1610, serif]{beamer}
\usetheme{pl}
```



The structure elements are in green, inline code is in blue, and alerted text in orange.

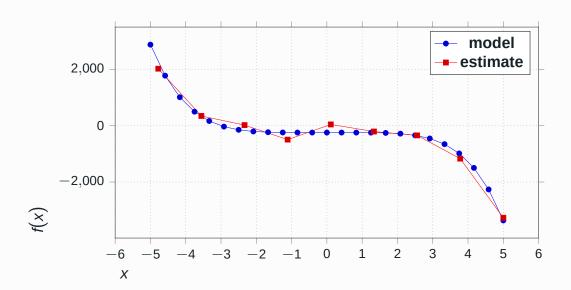
The background is off-white: it will *look* like it's white, but with less eyestrain.

The foreground is not-quite-black either.

TABLES

PID	COMMAND	%CPU	TIME	#TH
25645	top	16.3	00:02.03	1/1
25642	bash	0.0	00:00.01	1
25641	login	0.0	00:00.02	2
25634	mdworker	0.0	00:00.07	3
25624	mdworker	0.0	00:00.14	4
25591	mdworker	0.0	00:00.14	3
25571	com.apple.iC	0.0	00:00.31	5
25414	installd	0.0	00:00.52	2
25366	com.apple.We	0.0	00:00.07	4

PGF PLOTS





The Input family of fonts has some support for Greek and mathematical symbols:

$$\frac{1}{N}\frac{\mathrm{d}}{\mathrm{d}t}N=N\left(r-\alpha N\right)$$

You can use \alert within math blocks.

CODE HIGHLIGHTING

There is a customized color scheme for code highlighting.

```
a = 2.0
b, c = "abc", 'c'
# This code does nothing (useful)
for i in 1:10
  rand()
  @elapsed println("i:\t$i")
end
```

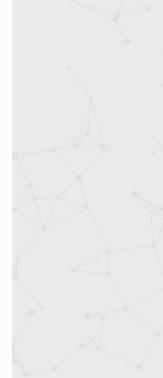
We can also use unicode characters.



The background image is generated from the makebackground.jl file. It's the k-nearest neighbour graph of a series of random points.

The file is background.png – it can be replaced by any file as long as the replacement file is in the 16:10 format (for example, a 1600×1000 image).

Specific commands



CROPPED IMAGES

The roundpicture command will display a picture, resized to fit into a circle:

\roundpicture{images/nb.png}{Optional text}

Note that the image must be a square.

