

## Figures

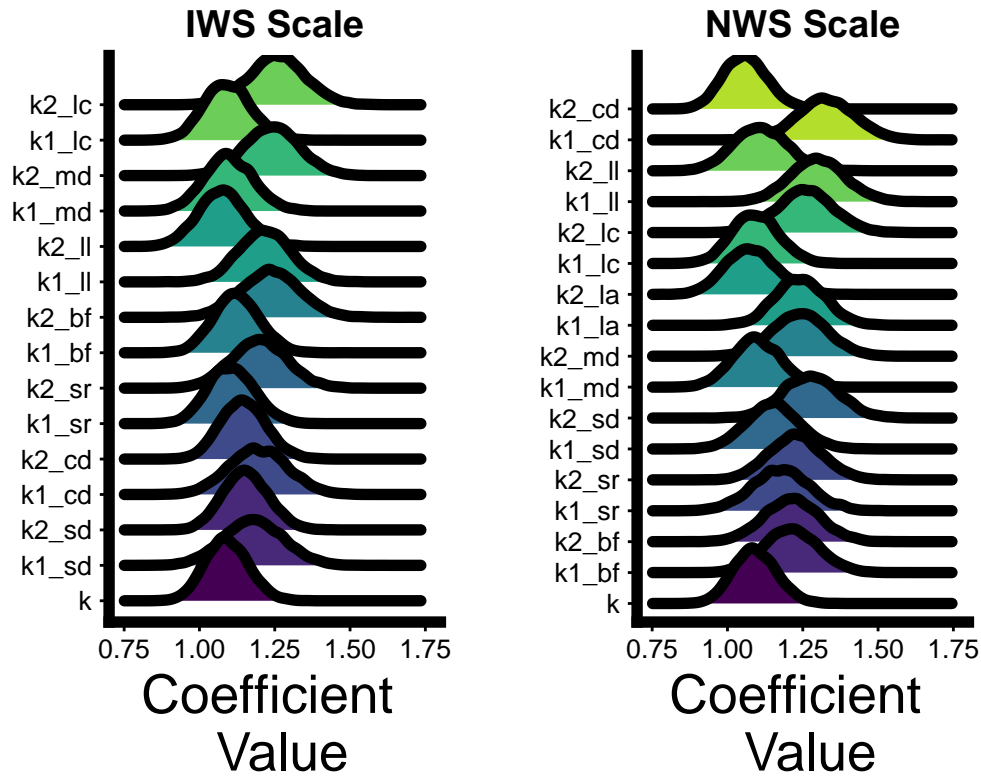


Abb	Scale	Metric	Split Value	Delta k
cd	nws	Closest lake distance	2776.81	0.27
ll	nws	Average Link Length	2237.34	0.19
lc	misc	Lake Connection	NA	0.17
la	nws	Upstream lake area	153.50	0.16
md	misc	Max Depth	19.81	0.15
ll	iws	Average Link Length	2177.08	0.14
sd	nws	Stream density	10.40	0.13
bf	iws	Baseflow	63.76	0.12
sr	iws	Stream order ratio	0.67	0.10
cd	iws	Closest lake distance	3773.61	0.05
sr	nws	Stream order ratio	0.47	0.05
sd	iws	Stream density	4.43	0.03
bf	nws	Baseflow	52.94	0.00

```
## Warning: Transformation introduced infinite values in continuous y-axis
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## Warning: Transformation introduced infinite values in continuous y-axis
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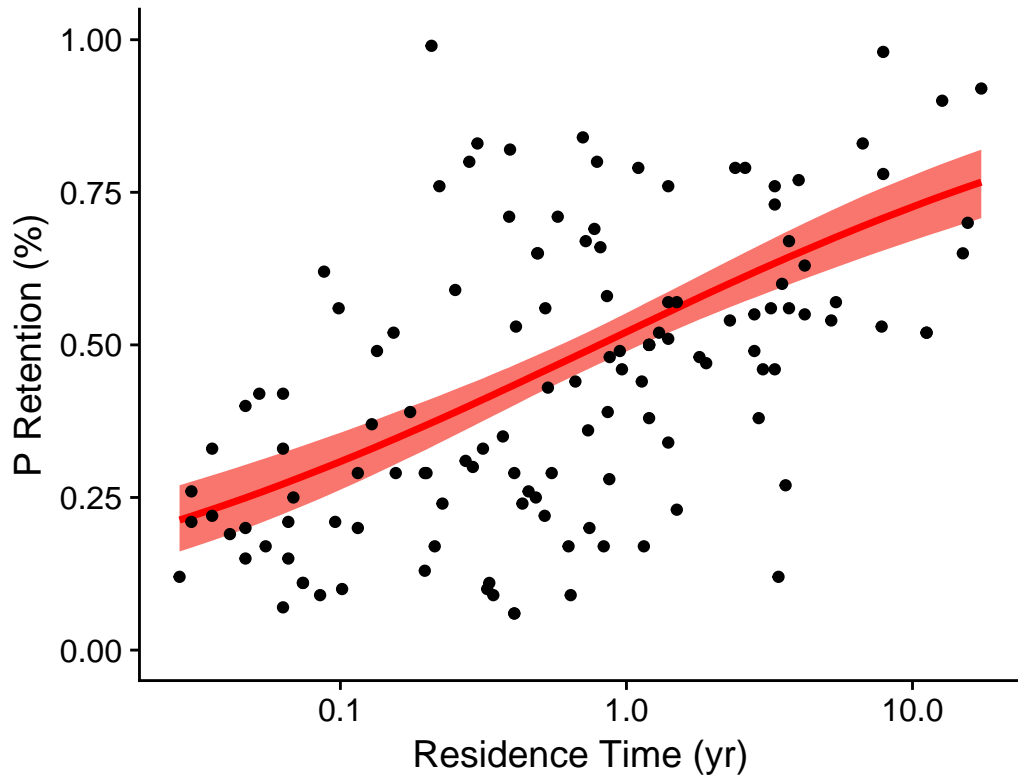
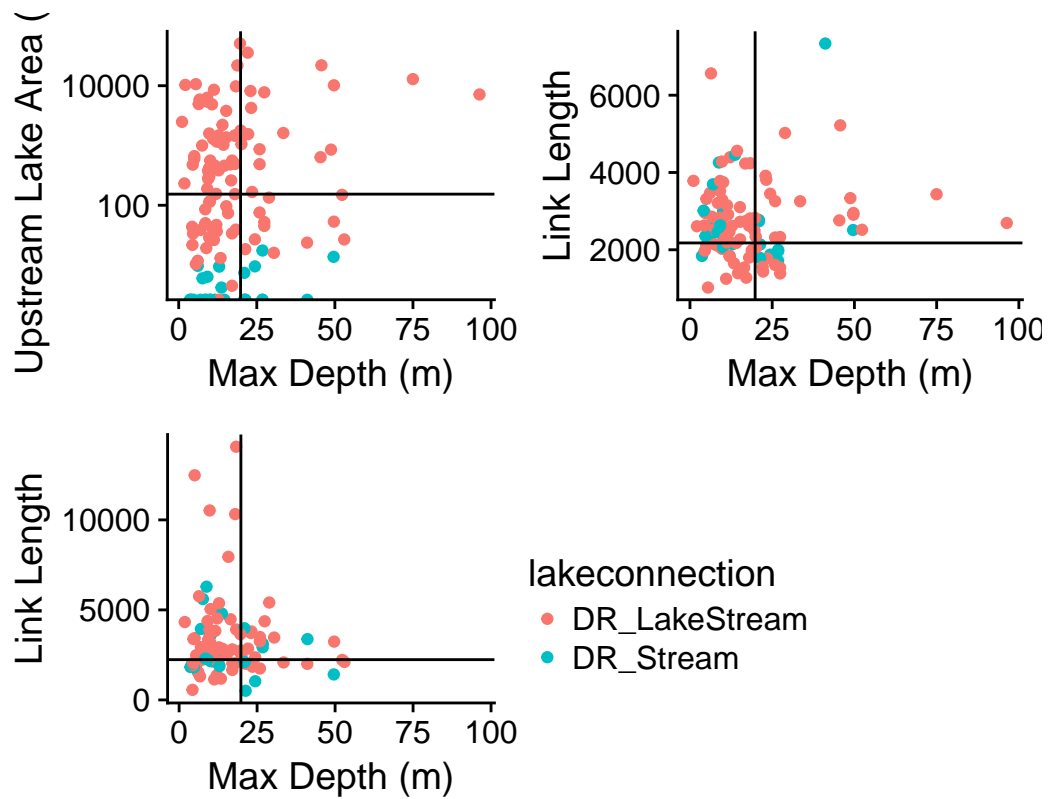


Figure 1: Median and central 95% interval estimates from the non-hierarchical model posterior relative to raw data.



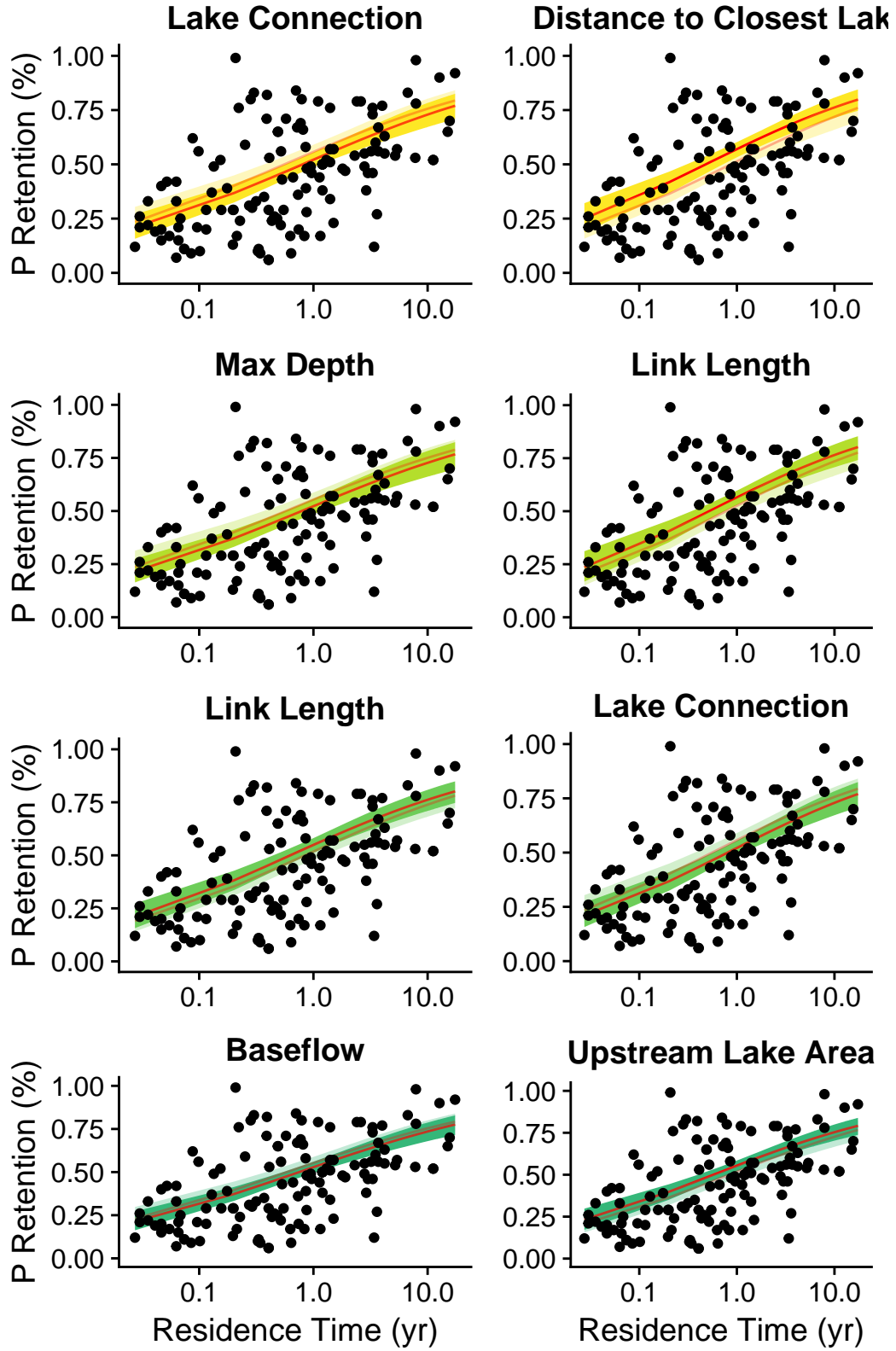


Figure 2: Median and central 95% interval estimates from the hierarchical model posteriors relative to raw data. Dark lines and shaded polygons represent the estimates from the lower of the two partition groups (see Table 1)

## Summary

Table 2: Connectivity metric effects on lake processing.

metric	direction	k	connectivity	in_lake_processing	axis
lakeconnection	DR_Stream	higher	lower	higher	lake
upstream lake area	lower	higher	lower	higher	lake
link_length	lower	higher	lower	higher	stream
baseflow	higher	higher	lower	higher	stream
stream order ratio	higher	higher	lower	higher	stream
upstream lake distance	lower	higher	lower	higher	lake-stream
stream density	higher	higher	lower	higher	stream