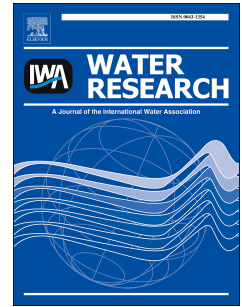


Accepted Manuscript

Seasonal pattern of anthropogenic salinization in temperate forested headwater streams

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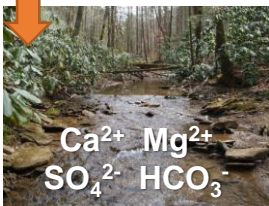
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Coal mining salinizes streams



Major Ions elevated

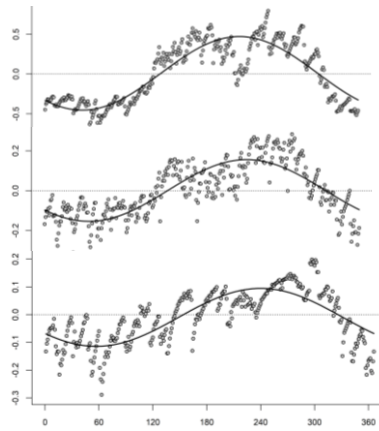


Ca^{2+} Mg^{2+}
 SO_4^{2-} HCO_3^-

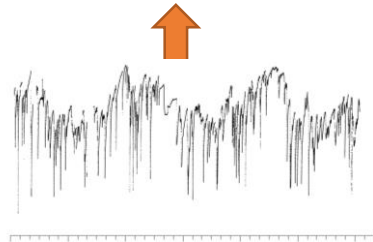
Conductivity datalogger



Relative deviation from mean specific conductance

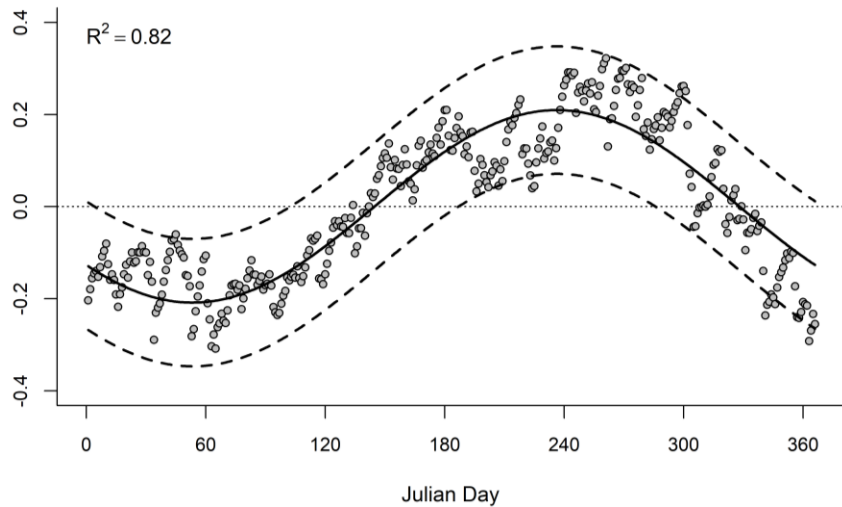


25 streams
Mean of



High-frequency conductivity 2011 – 2015, n = 25 streams

Relative deviation from mean specific conductance



- Sinusoidal model of daily specific conductance
- Varies with natural seasonal streamflow cycle

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