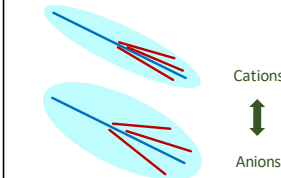
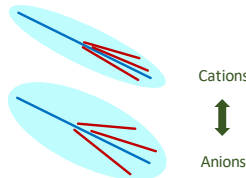
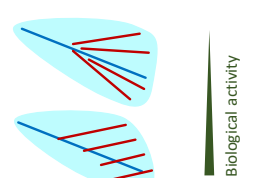
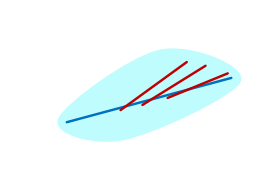
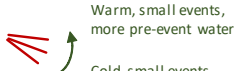
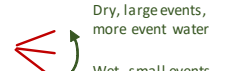
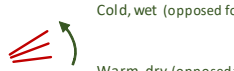



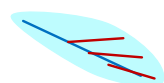
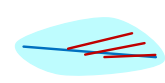


Dominant source	Groundwater	Precipitation	Soil
<p>cQ behavior</p> 			
<p>Solute mobilization (cQ slope):</p> <p><i>long term</i></p> <p><i>event scale</i></p>	<p>Slope &lt; 0</p> <p>Slope &lt; 0</p>	<p>Slope &lt; 0</p> <p>-1 &lt; slope &lt; 1</p>	<p>Slope &gt; 0</p> <p>Slope &gt; 0</p>
<p>Variability in cQ space:</p> <p><i>long term</i></p> <p><i>event scale</i></p>	<p>Well confined</p> <p>Low variability</p>	<p>High scatter</p> <p>High variability</p>	<p>High scatter</p> <p>Some variability</p>
<p>Potential modulators of event-scale behavior</p>	<p><i>Ionic form:</i></p> <p>lower variability for cations due to exchange buffering</p>	<p><i>Biological activity:</i></p> <p>increases the variability</p>	<p>Presence as <i>nanoparticulates</i>:</p> <p>likely affects the solute mobilization during events</p>
<p>Drivers and controls of interevent variability:</p> <p><i>slope</i></p>	 <p>Seasonality indicators and event characteristics</p>	 <p>Antecedent conditions and event water contributions</p>	 <p>Seasonality indicators and antecedent conditions</p>
<p>Drivers and controls of interevent variability:</p> <p><i>intercept</i></p>	 <p>Seasonality indicators and antecedent conditions</p>	 <p>Seasonality indicators and antecedent conditions</p>	 <p>Seasonality indicators and antecedent conditions</p>
Solutes (at Erlenbach)	Ca, Mg, Na, Sr, Ba, B, SO <sub>4</sub> , EC	Cl, NO <sub>3</sub>	Fe, Mn, Cr
Mixed behavior	 <p>Long-term cQ scatter and interevent variability increases with contribution from precipitation, e.g., K.</p>		 <p>Long-term behavior becomes more chemostatic with increasing contributions from precipitation, mobilization behavior on the event scale.</p>