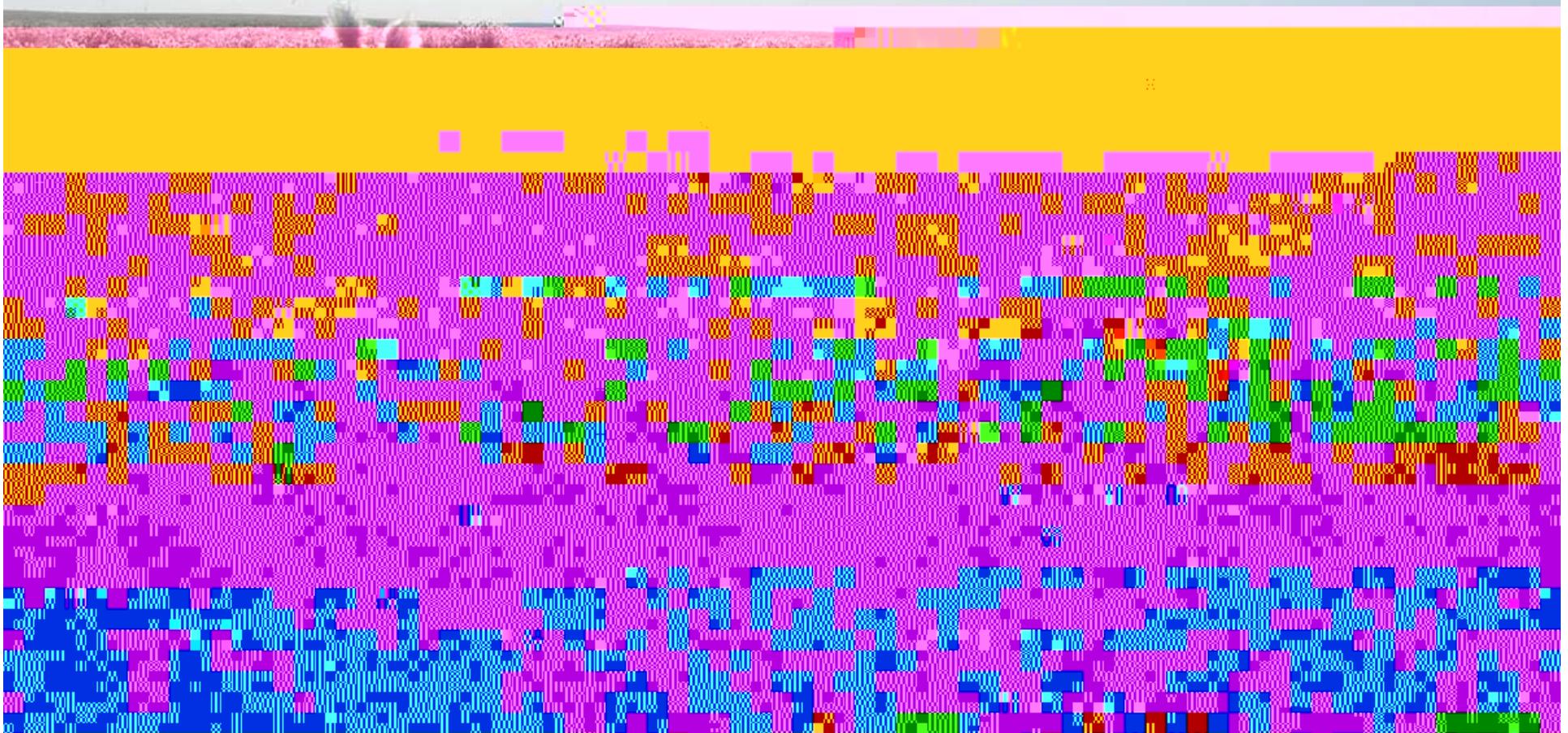


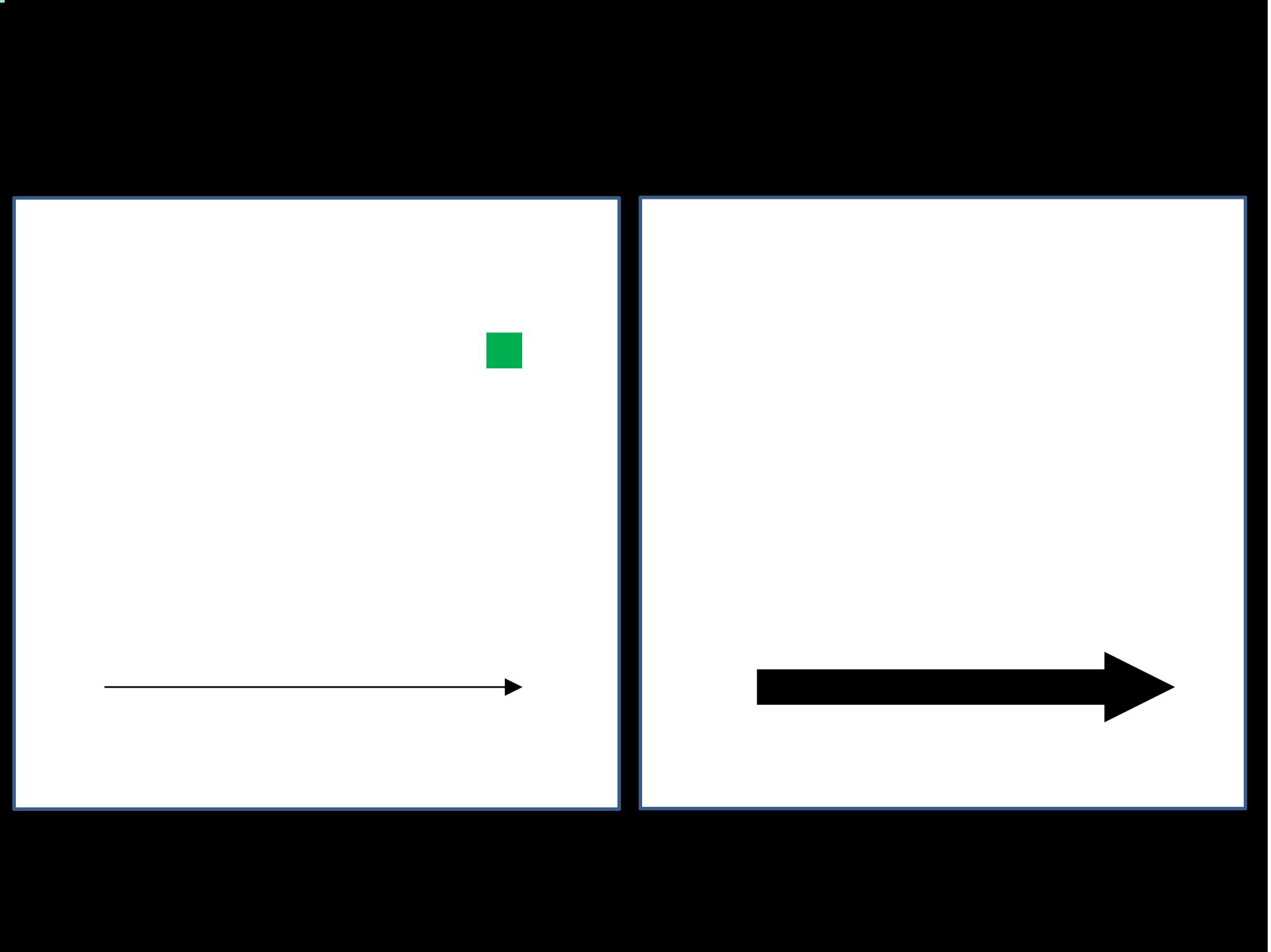
Arctic LTER 2017-2023: The Role of Biogeochemical and Community Openness in Governing Arctic Ecosystem Response to Climate Change and Disturbance (NSF 1637459)

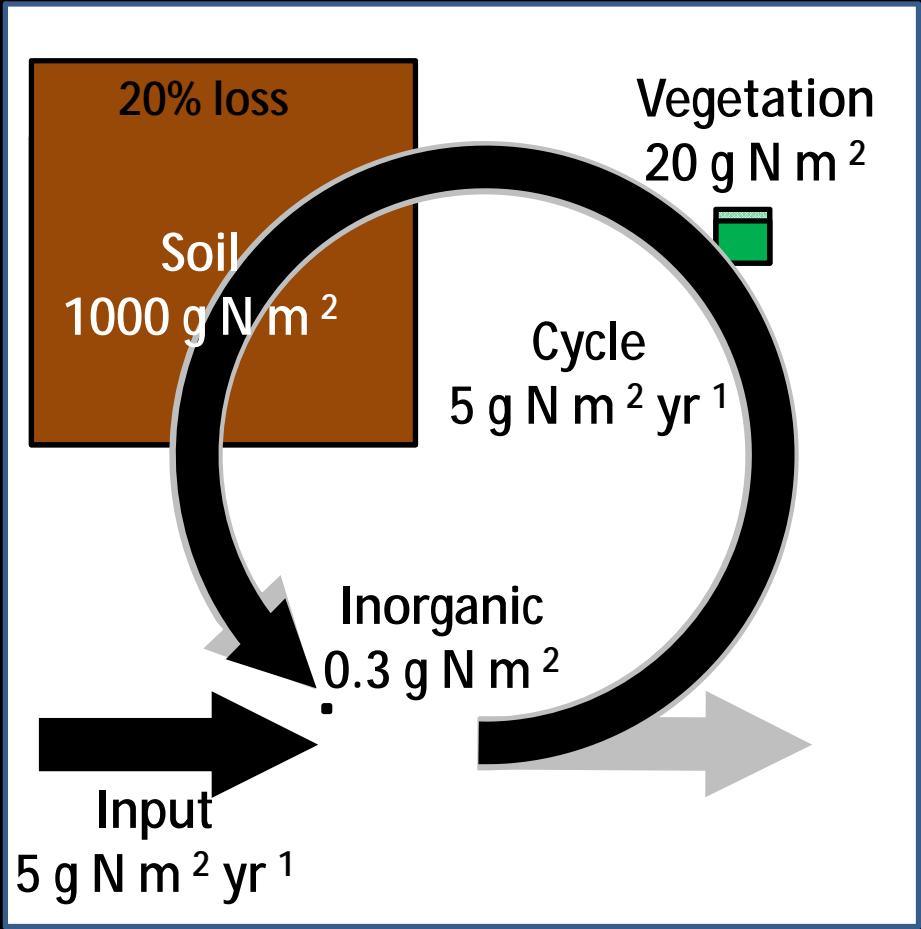
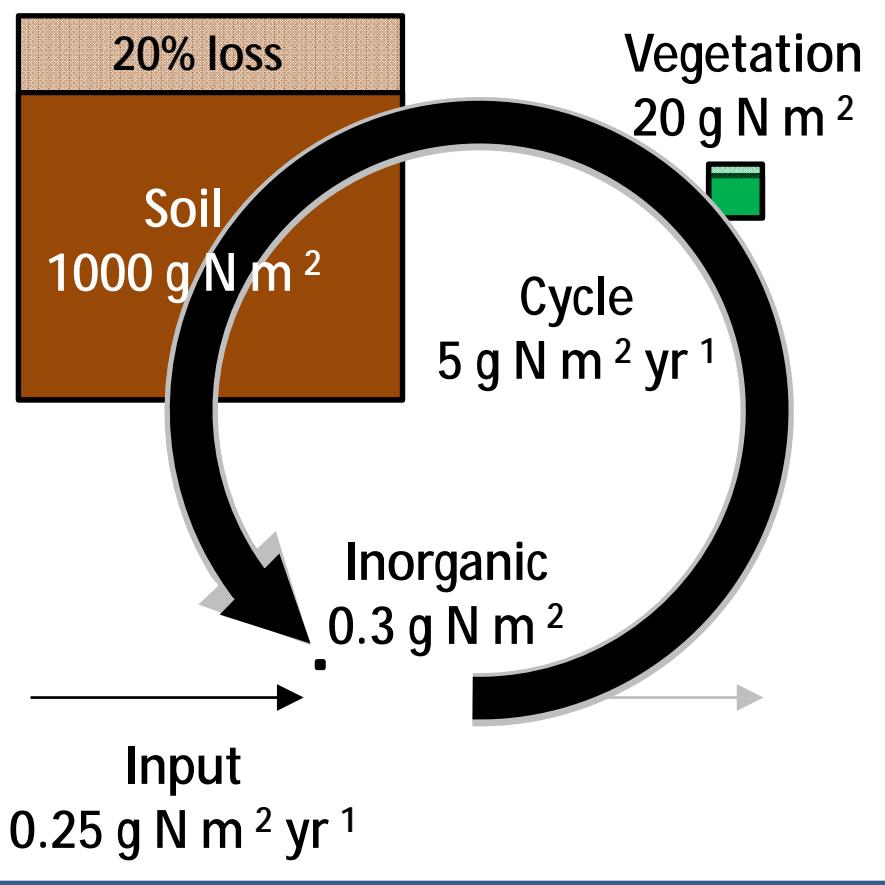
<http://arc.lter.ecosystems.mbl.edu>

look under "About"

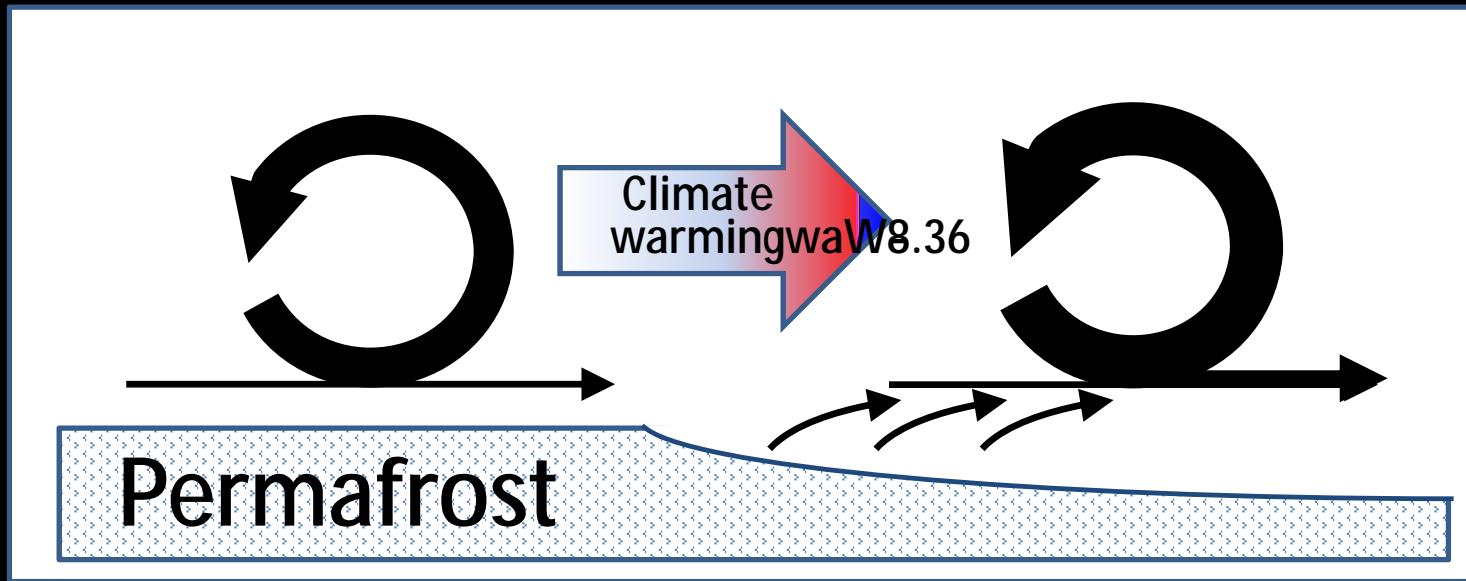


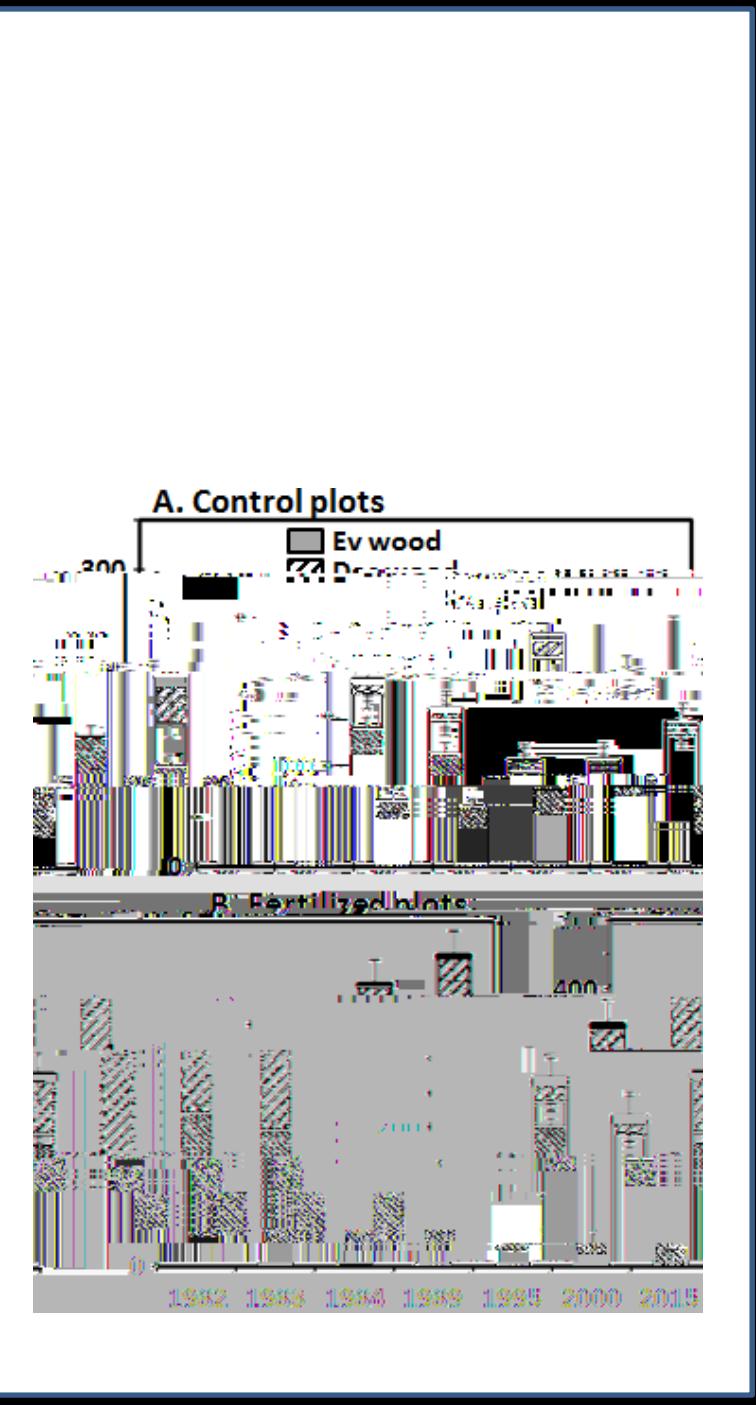
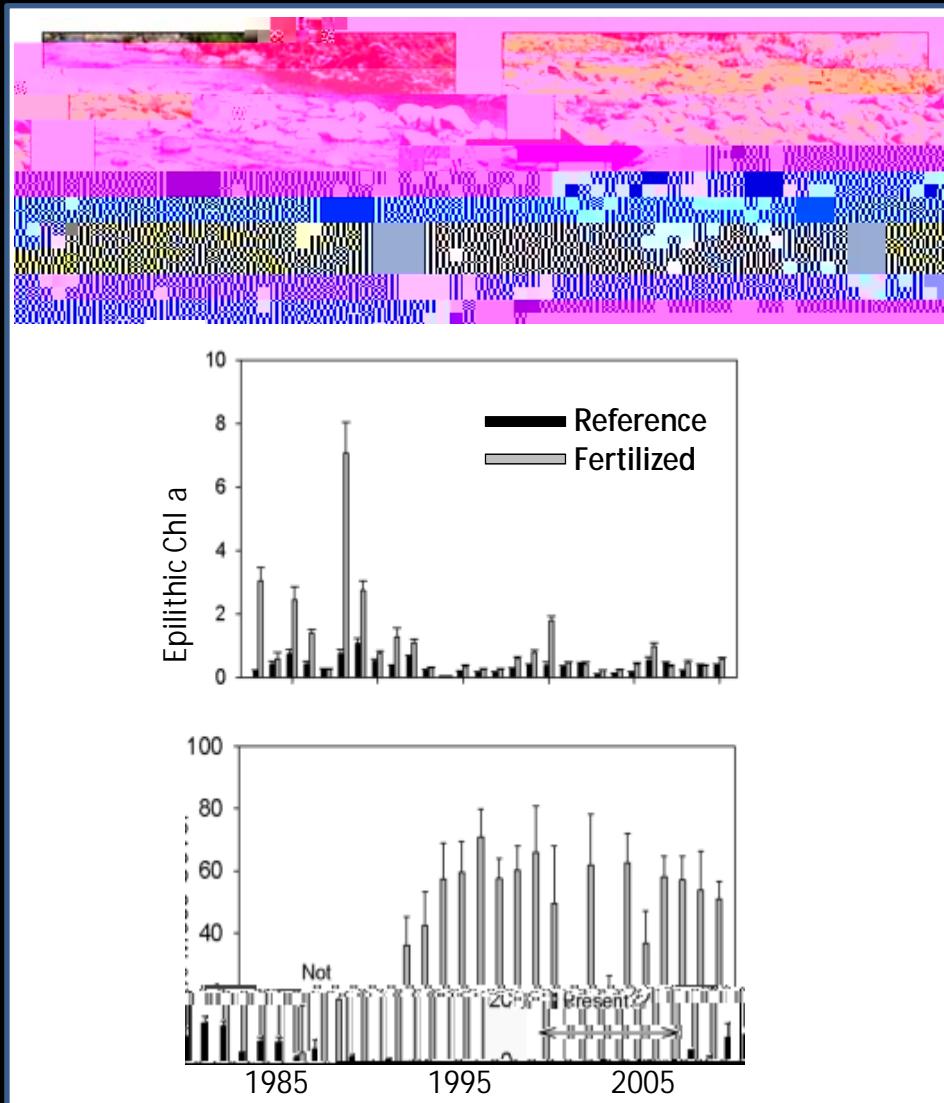
Biogeochemical openness is the degree to which the ecosystem depends on external supplies of nutrients and organic C (allochthonous C) versus internally recycled nutrients and locally fixed organic C (autochthonous

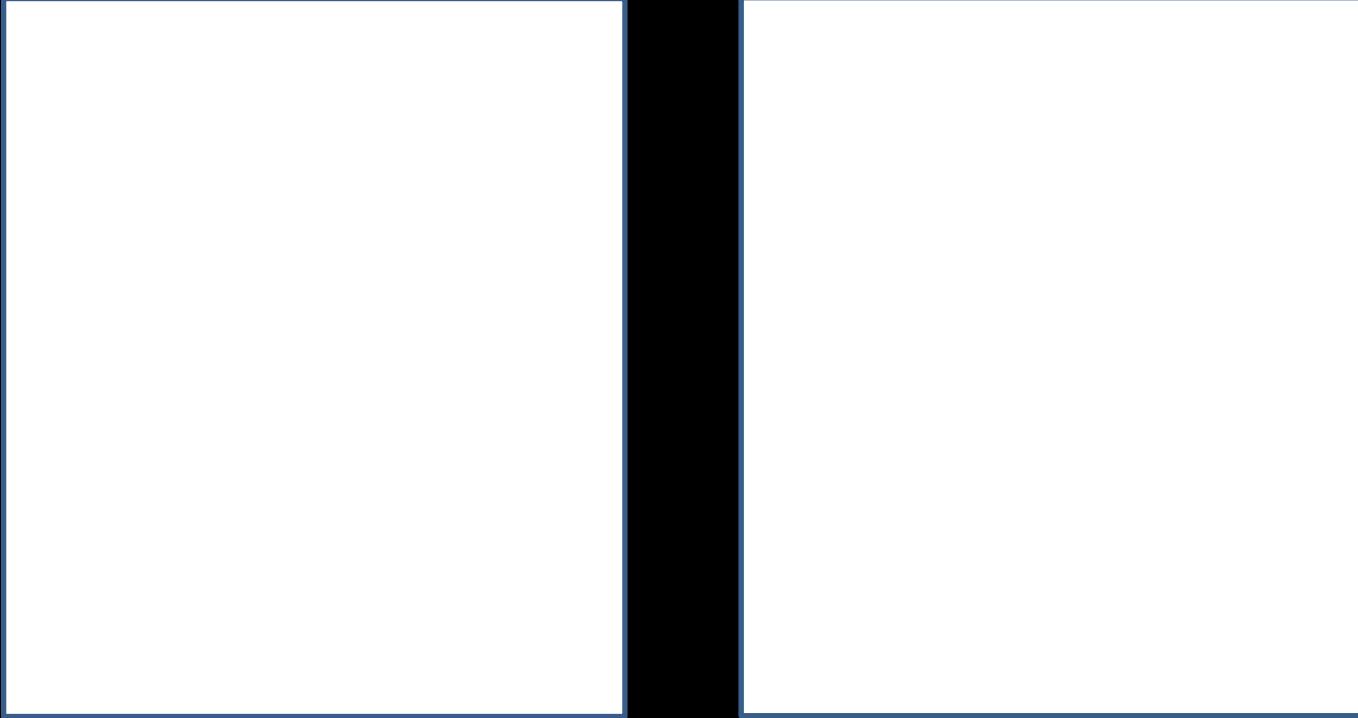






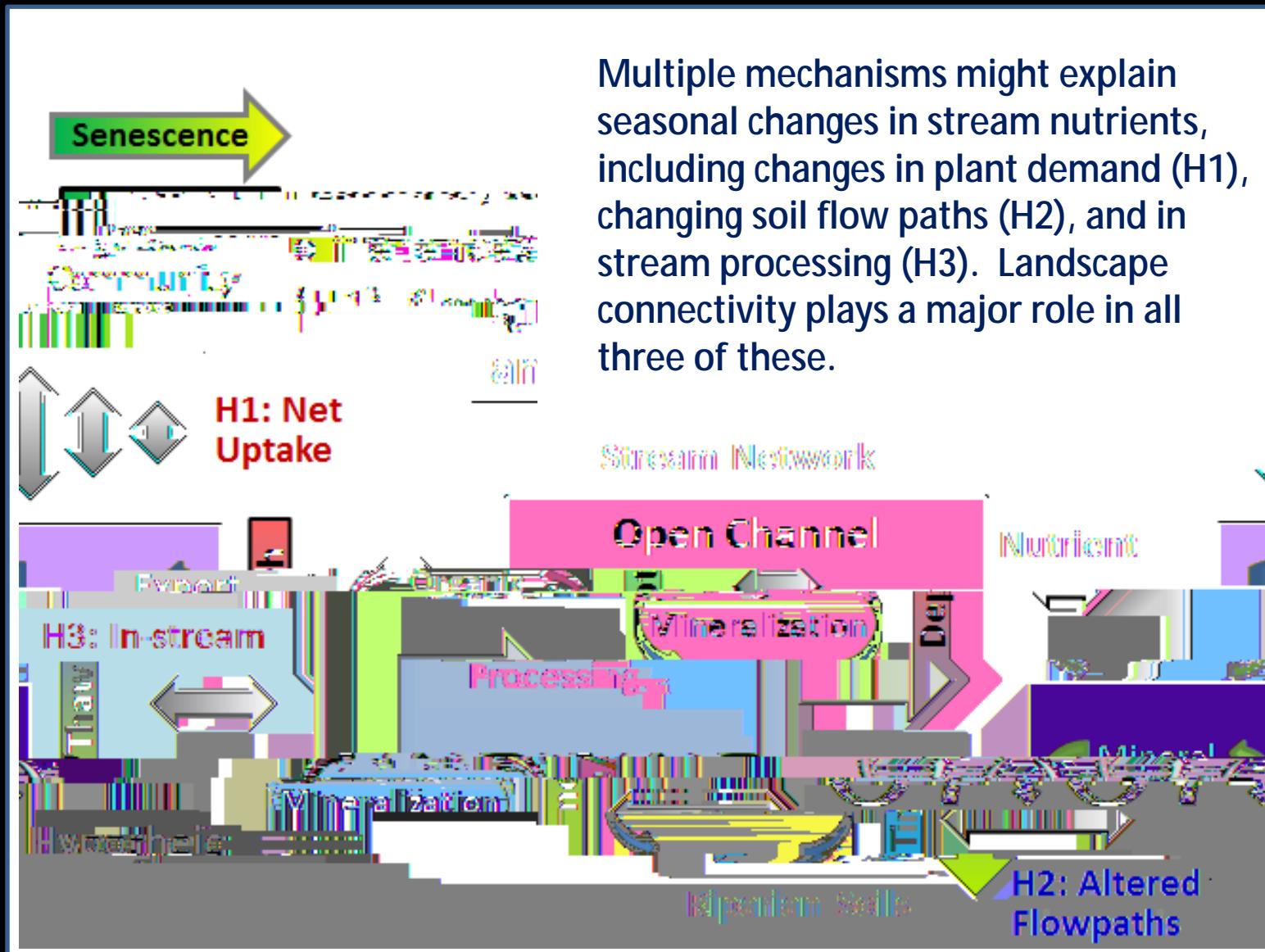






The nearly closed ecosystems
on hill slopes are poorly
connected and therefore
delay and attenuate signals
moving down slope (e.g.,
nutrient





Multiple mechanisms might explain seasonal changes in stream nutrients, including changes in plant demand (H1), changing soil flow paths (H2), and in stream processing (H3). Landscape connectivity plays a major role in all three of these.



