

LANDSCAPE CONTROLS ON CARBON CYCLING

LOW TERRAIN COMPLEXITY HIGH

Topographic channeling acts as a primary control—redistributing water across watersheds resulting in differential responses in soil respiration.

Vegetation becomes a primary control as high soil water values decrease the effects of topographic channeling. Increases in soil water may dampen fluxes.

Vegetation serves as a primary control, determining either uniform or differential increases in flux to additional soil water.

Vegetation also serves as a primary control, but addition soil water serves to dampen fluxes from these systems.

LOW

SOIL MOISTURE

HIGH