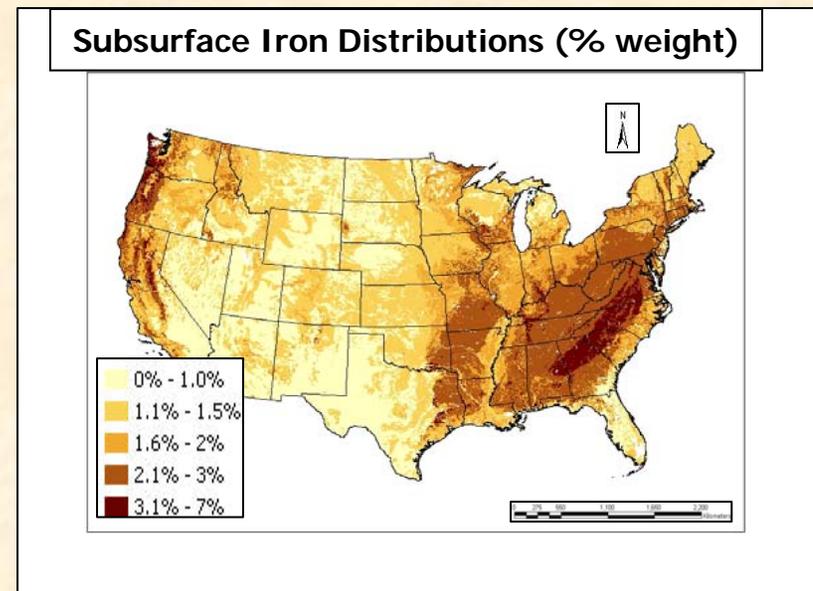


# Regional Scale Assessment of the Organic C Sequestration Potential in Deep Subsurface Soils

- Quantify the relationship between soil organic C sequestration and soil physical, hydrological, and geochemical properties, and develop a geographical method for estimating the carbon storage capacity of subsurface soils within the United States.
- Organic C pools in subsoils (B and C horizons) are much less dynamic due to mineral stabilization, where turnover times are estimated at millennia and longer.
- Results will identify regions and field sites that offer the greatest potential for enhanced subsurface organic C storage and thus most deserving of manipulation or improved management.
- The United States framework could be extended globally.



# Regional Scale Assessment of the Organic C Sequestration Potential in Deep Subsurface Soils

## Accomplishments

**Improved conceptual understanding and predictive capability of the processes controlling subsurface organic C sequestration.**

**Development of a statistically rigorous, geographically-based method for estimating the carbon storage capacity of deep subsurface soils within the United States.**

**Identification of regions and field sites which offer the greatest potential for enhanced subsurface organic C storage and thus most deserving of manipulation or improved management.**

