# Soil Carbon Accounting for Humods in Forest Landscapes of New England. (S05-scheyer110339-Poster)

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### Abstract:

Soil carbon accounting can be improved using updated soil survey information. Frigid Humods in Northern New England may contain enough organic carbon to be reclassified in Soil Taxonomy and separated out on national soil carbon inventories. This regrouping recognizes higher estimates of potential carbon storage across the spatial extent of these series. Our objective is to combine forest soil measurement tools and modeling techniques into an integrated system to monitor the potential for carbon sequestration. Soils were sampled by visible horizon and satellite locations were sampled by 10cm depth increments to the bottom of the spodic material. Protocols for extrapolating site data to the landscape scale using laboratory characterization and field descriptions were developed. Our results are applicable to operations of farmers, private forest landowners, and State agencies and will help tailor the use of existing soil survey information. Changes induced by conservation practices on the carbon pools under forest and after cultivation can then be tracked. These new methods may lead to cost-effective and timely accounting for forest soil carbon storage at the landscape scale.

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carbon accounting, soil survey, sampling protocols, scaling data