Carbon Monitoring of Agricultural Lands: Developing a Globally Consistent Estimate of Carbon Stocks and Fluxes

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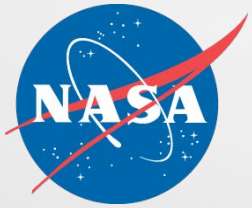

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Purpose

Develop a globally consistent inventory-based agricultural carbon stock & flux estimate that is geospatially distributed using gridded land and soils data.

Need

- UNFCCC reported country-specific estimates are not consistent in their use of underlying soils data, land cover data, modeling and accounting methods for carbon dynamics, or methods for uncertainty analysis

- This project will provide consistency, include flux estimates not currently required by IPCC methods, estimate soil carbon change.

Project

- Start with gridded ABG, BG, Harvested biomass (completed in Phase II project).
- Estimate soils carbon change using Tier II (empirical, regional) and Tier III methods (DAYCENT).
- Estimate uncertainty.
- Scope out improved remote-sensing based global agricultural products.
- Merge with complimentary forest product.