Database Infrastructure for Integrative Carbon Science Research

UF | UNIVERSITY of FLORIDA

PI and Co-PI: Sabine Grunwald, Timothy A. Martin, Howard Beck
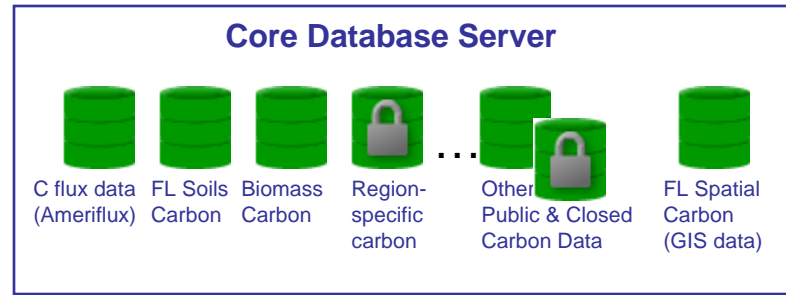
TerraC
Terrestrial Carbon
Information System

Collaborators: Gustavo M. Vasques, Brandon Hoover, Carlos A. Gonzalez, R. Bracho-Garriloo

Stage 1

Administrative Tools

User Administration
Data Administration

Core Database Server

C flux data (Ameriflux) | FL Soils Carbon | Biomass Carbon | Region-specific carbon | ... | Other Public & Closed Carbon Data | FL Spatial Carbon (GIS data)

Public Tools

Query Tool
Publicly accessible data can be viewed, queried, and downloaded

Authenticated Users
Users in the appropriate groups have access to view and edit data in locked tables. The owner can control access rights.

Administrative Review (quality check)

New Upload

Quarantine

New Upload

Upload Tool
Data as a CSV uploaded directly to the site and checked for format consistency.
Data and meta data templates are provided to users.

Stage 2

Google earth

KML Export

Additional Information
Keywords, descriptions, images and other media can be added to data points to create popups for points shown in Google Earth.

Carbon Science - Applications
Results from carbon research are showcased; Site-specific or field-specific results (e.g. C flux study) or regional results (e.g. CO_2 emission grid; soil C across FL; C content by habitat type)