Strengthening Soil Diagnostic Capacity in the Caribbean: Forming CARSOLAN

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6th Meeting of the Global Soil Laboratory Network (GLOSOLAN)
SOILCARE

Caribbean Small Island Developing States (SIDS) Multicountry Soil Management Initiative for Integrated Landscape Restoration and Sustainable Food Systems: Phase 1 (CSIDS-SOILCARE Phase 1)

Objective

To Strengthen Caribbean SIDS with the necessary tools for adopting policies, measures and reforming legal and institutional frameworks to achieve Land Degradation Neutrality LDN and Climate Resilience
Components

1. CARSOLAN + CARSIS
2. Land Degradation and Ecosystem Restoration
3. Climate Smart Agriculture
4. Land Use Alternatives
5. Capacity Development, Communication and Policy

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Complimentary Work Streams

WS1 - Data production (country driven)
- Data Collection, Harmonisation, Mapping, Modelling

WS2 - System Development (country driven - Regional)
- Establishing SDIs, National Soil Information Systems, CarSIS and DSS
WS1 – SOILCARE Data Production

Activities:

1. Legacy Data Collection
2. Soil Sampling
3. Lab Analysis
4. Data Harmonisation
5. Master Soil Databases
6. Mapping Modelling

Auxiliary Layers
- Land Use/Land Cover
- Climate
- DEM
- Slope

Soil Profiles, Augers
- Soil Profile Database (point data)

Thematic Maps 100*100m
- GSOCmap (SOC)
- GSOCseq (Sequestration)
- GSASmap (Salinisation)
- GSNmap (Nutrients)
- GSERmap (Erosion)
- Soil Property Grids
  - Texture, BD, CEC, EC, pH, CF...

Soil Type Maps
- Soil Maps (WRB, USDA)

Soil Information Systems
Antigua and Barbuda, Belize, Barbados, Granada, Guyana, Haiti, Jamaica, St Lucia

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Status and Workplan

- Soil laboratory capacity assessment performed
- Agreement on minimum set of SOPs for harmonization and capacity building
- All participating countries registered to GLOSOLAN
- Procurement of equipment and consumables
- Training in SOPs including quality management

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WS2 – SOILCARE System Development

Activities:
- Development of SIS software for SoilCARE countries (National Systems)
- CarSIS Platform (Regional System)
- CarSIS Decision Support System (CarSIS DSS)

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Thank You
Your support is appreciated