



Food and Agriculture
Organization of the
United Nations

**GLOBAL SOIL
PARTNERSHIP**
13th Plenary Assembly
03-05 June 2025

Global Soil Laboratory Network GLOSOLAN

Moustapha Abdourahaman
GLOSOLAN -Chair

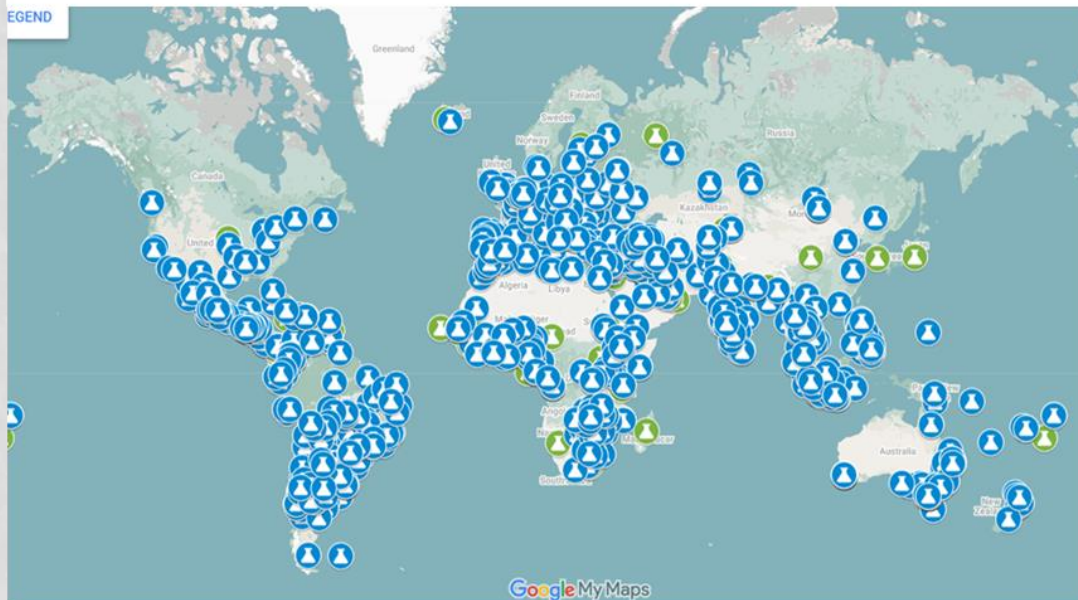


GLOSOLAN

Network established in 2017

- ✓ Promotes harmonisation of soil analysis methods worldwide
- ✓ 1,189 members from 164 countries (as of early 2025)

GLOSOLAN interactive map



GLOSOLAN's data till April 2025

Region	Countries	Laboratories
AFRILAB	40	209
ASPAC	9	77
EUROSOLAN	46	258
LATSOLAN	27	303
NASLN	3	20
NENALAB	19	113
SEALNET	21	209
Total	168	1189

GLOBAL



2024-2025 GLOSOLAN meetings

8th GLOSOLAN & GLOSOLAN-Spec

Rome, 11-13 Nov 2024

- ✓ Hybrid mode = 240 participants | 26 in person | 142 countries
- ✓ Prof. Raphael Viscarra Rossel (Curtin University, Australia) elected as Chair of GLOSOLAN-Spec



Regional Networks meetings

- ✓ Annual meetings held virtually for: **Africa, Europe and Euroasia, Latin America & Caribbean, NENA, Pacific**
- ✓ Annual meetings held hybrid for **Asia**
BSWM | Philippines | July 2024



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2024-2025 GLOSOLAN Key Achievements

Webinars

Soil Spectroscopy

5 webinars on soil spectroscopy (English/Spanish)
| 1 000 participants | 130 countries

[-] Spectral Sensing for Soil Contamination: From Ground to Space



Spectral Sensing for Soil Contamination: From Ground to Space
30 May 2024 | 14:00 CEST

SPEAKERS: Asa Gholizadeh
LANGUAGE: English

[Details of the event](#) | [WATCH the RECORDING](#) | [DOWNLOAD the PRESENTATION](#)

[-] Aspectos básicos del análisis de suelos mediante



**Aspectos básicos de
cercano**
29 May 2024 | 15:00 CES

SPEAKERS: Prof. Cesar G
LANGUAGE: Spanish

[Details of the event](#) | [WA](#)

[-] Can we take vis-NIR spectroscopy to field to leve



Can we take vis-NIR spectr
16 April 2024 | 15:00 CEST

SPEAKERS: Dr. Asim Biswas
LANGUAGE: English

[Details of the event](#) | [WATCH thi](#)

[-] Soil security via spectroscopy

2 October 2024 | 8:00 AM CET

SPEAKERS: Prof. Alex McBratney Dr. Sandra Evangelista
LANGUAGE: English

[Details of the event](#) | [WATCH the RECORDING](#) | [DOWNLOAD the PRESENTATION](#)



[-] Unlocking the Science of Soil and Plant Diagnostics at CIFOR-ICRAF's State-of-the-Art Laboratory

11 June 2024 | 15:00 CEST

SPEAKERS: Dr. Zampela Pittaki, Dickens Alubaka Ateku, Elvis Weullow
LANGUAGE: English

[Details of the event](#) | [WATCH the RECORDING](#) | [DOWNLOAD the PRESENTATION](#)



Dr. Zampela Pittaki



Dickens Alubaka Ateku



Elvis Weullow

Regional workshops

Asia (SEALNET):

Focus on SOP implementation, lab quality control,
health and safety | 50 participants | 16 countries

Caribbean (UWI, Trinidad and Tobago):

CSIDS-SOILCARE Phase 1 project
Strengthened CarSoLaN analytical capacity



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2024-2025 GLOSOLAN Key Achievements

Proficiency Tests

Regional Proficiency Tests (PTs)

Asia & Eurasia: 95 labs, 19 countries

Africa & NENA: 90 labs, 45 countries

Global Proficiency Test 2025

Launched in March 2025,
250 laboratories selected



2024-2025 GLOSOLAN Key Achievements

Global Symposium on Soil Information and Data (GSID'24)

GLOSOLAN & GLOSOLAN-Spec Participation
Hybrid event, September 25-28, 2024 |
Nanjing, China

- Over 40 GLOSOLAN members participated
- Active involvement in **technical sessions**
- **Three keynote presentations** during plenary session



2024-2025 GLOSOLAN Key Achievements

Expanding Access to Knowledge

Published wet chemistry SOPs

1. Soil microbial biomass (carbon): chloroform fumigation-extraction
2. Boron determination in soil: Hot water extraction
3. Soil enzyme activities

Spectroscopy

1. One technical manual on Soil Spectroscopy
2. Scientific Contribution one Peer-reviewed article



Achievements

1. Strong international collaboration through knowledge sharing, partnerships & networking
2. Harmonisation of new SOPs for soil analysis
3. Implementation of Proficiency Tests enhance reliability and comparability of data across labs
4. Strengthening GLOSOLAN members' capacity through various training workshops
5. Promoting innovative technologies for cost and time effective soil analysis

Action Items

1. Encourage partners to adopt GLOSOLAN guidelines (e.g.,: SOPs) to ensure high-quality, consistent soil data.
2. Invite GLOSOLAN to strengthen their collaboration with INSII to facilitate the development of GloSIS and the technical components of SoilSTAT.



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THANK
YOU

