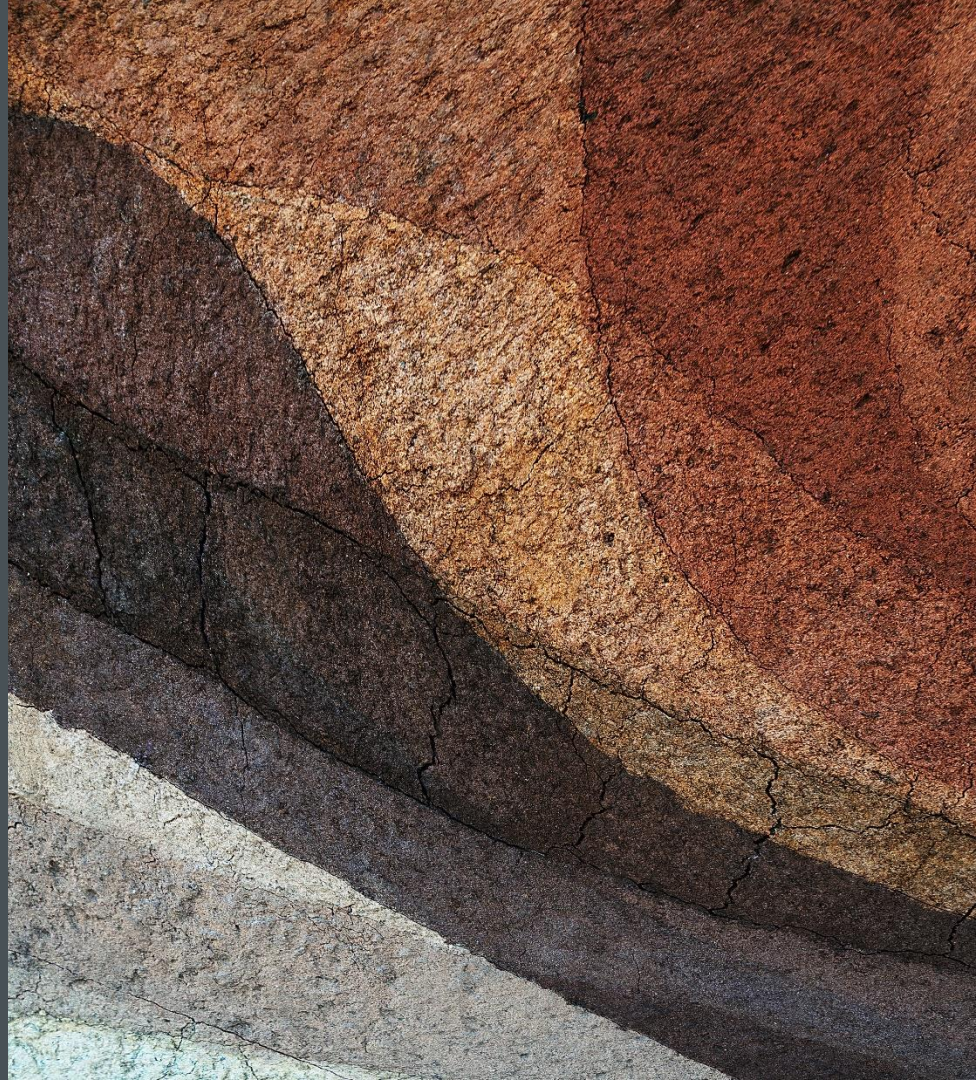




ISRIC - World Soil Information

Rik van den Bosch, Stephan Mantel,
Fenny van Egmond, Andries Bosma



About us



- ISRIC–World Soil Information is an independent science-based foundation based in Wageningen
- World Data Centre for Soils since 1989.
- Mission: increase the **availability** and use of **quality assessed** soil data, information and knowledge to enable **better decision making** for sustainable land management around the world.

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Years of working
experience

World Soil
Museum

30+

MoUs operational
including, FAO,
AU, IFDC, UNCCD,
national gov.

World
Data Centre
for Soils

30+

Projects in ~20
countries

35

Staff members
from 15
countries



Our areas of work



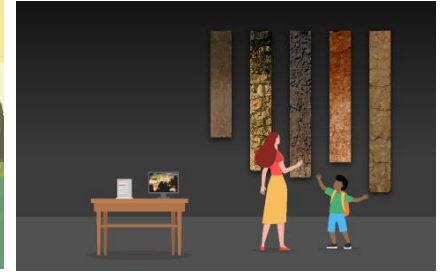
**Provisioning of
global and regional
soil data and
information**



**Supporting national-
level soil
information
providers**



**Applying soil
information for
sustainable land
management**



**Advocating and
educating on the
diversity and
importance of soil**

1960's + 70's: Soil Map of the World

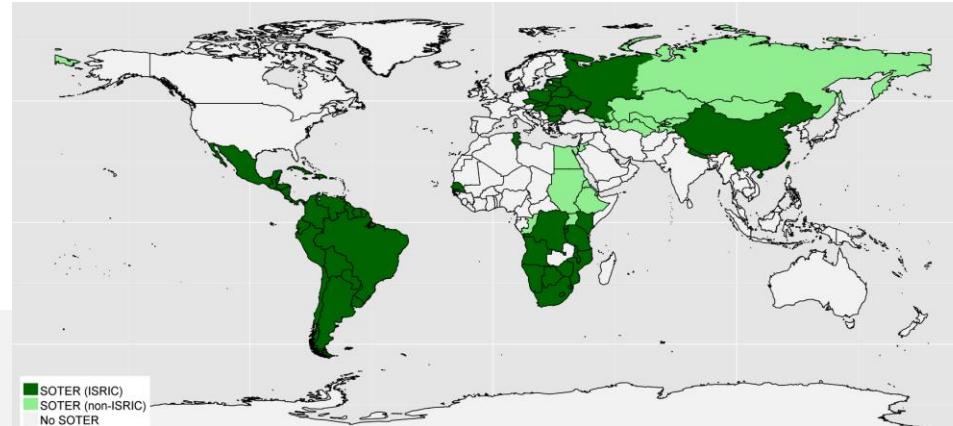


- ISRIC was founded as the International Soil Museum based on a resolution of the International Society of Soil Science (ISSS), to support the FAO-UNESCO-ISSS “**Soil-Map-of-the-World-Project**” as started in 1961
- 1960- 1970s ISRIC set up a **reference collection** (monoliths) to illustrate the legend van the Soil Map of the World

1980s: Global soil and terrain database (SOTER)



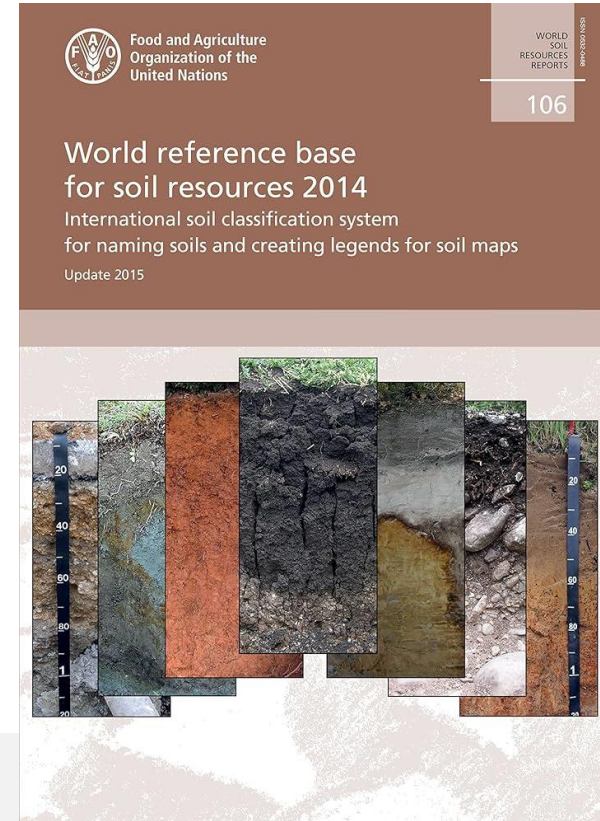
- Successor of the FAO-UNESCO Soil Map of the World.
- Initiated in 1986 by the FAO, UNEP and ISRIC, under the auspices of the International Soil Science Society.
- A global SOTER scale 1:1 million was never achieved, but SOTER databases were developed for various regions, countries and continents.
- A SOTER™ database is composed of
 - a GIS map with SOTER map units
 - tables with terrain and soil data.



1980s: World Reference Base for Soil Resources



- International system for soil classification
- Based on the Legend of the Soil Map of the World
- Initiated by FAO, UNESCO, supported by UNEP and the International Union of Soil Sciences (IUSS).
- ISRIC made considerable contribution to the WRB
 - leading scientist and chair of the working group
 - ISRIC still deputy chair of the IUSS WG for WRB

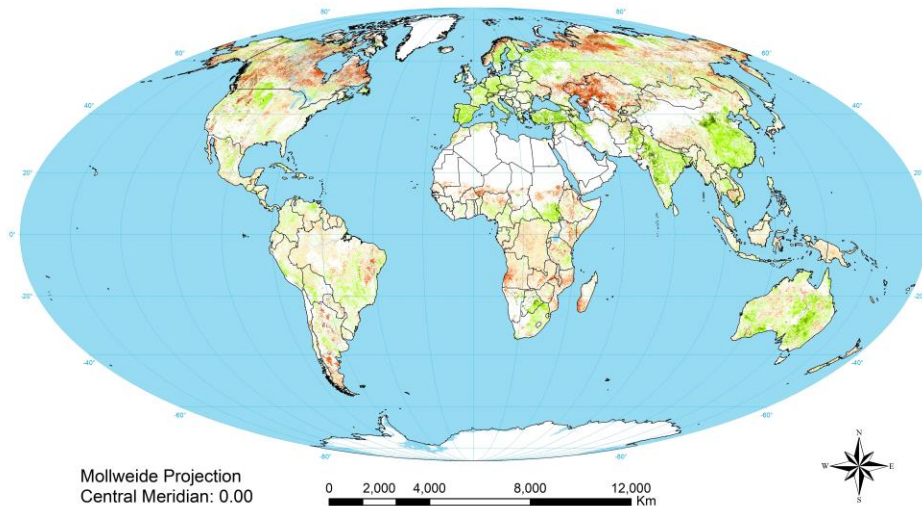


1990s: Global Assessment of Land Degradation and Improvement (GLADA)



- Part of GEF-UNEP-FAO Land Degradation in Drylands Program (LADA)
- ISRIC to develop general approach for land degradation assessment based on remote sensing (NDVI)
- First assessment for 1981-2003
- Recently updated for 1981-2023

Global Changes in Climate-adjusted Annual Sum NDVI 1981 and 2021



Global Changes in Climate-adjusted Annual Sum NDVI between 1981 and 2021 (%/year)



2000-2010: Harmonised World Soil Database



- Initiative of FAO and IIASA (2003), in collaboration with ISRIC, JRC, others
- Aimed at compiling a harmonized global soil database based on SOTER, Soil Map of China, ESDB and DSMW.
- Used for FAO/IIASA Global Agro-ecological Assessment study (GAEZ v3.0)
- Updated in 2023 by FAO and IASA based on WISE30sec by ISRIC



International Institute for Applied Systems Analysis • A-2361 Laxenburg • Austria
Tel: +43 2236 807 • Fax: +43 2236 71313 • E-mail: info@iiasa.ac.at • Web: www.iiasa.ac.at

INTERIM REPORT

IR-97-025/May

**Soil Data Derived from WISE
for use in
Global and Regional AEZ Studies
(Version 1.0)**

N.H. Batjes (batjes@isric.nl)

G. Fischer (fisher@iiasa.ac.at)

F.O. Nachtergaele (Freddy.Nachtergaele@fao.org)

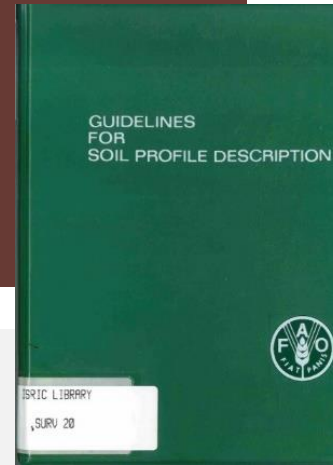
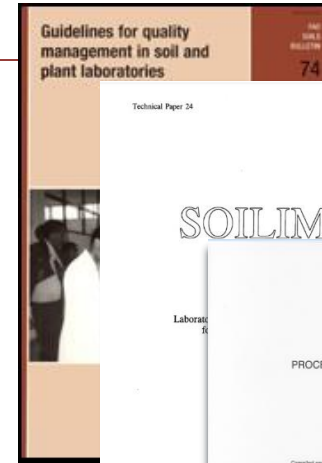
V.S. Stolbovoy (stolbov@iiasa.ac.at)

H.T. van Velthuisen (velt@iiasa.ac.at)

Joint publications FAO and ISRIC



- Guidelines for Quality Management in Soil and Plant Laboratories. (FAO Soils Bulletin - 74)
- SOILIMS: Laboratory management System, Manual and Tutor, V 1.4, 1997
- Procedures for soil analyses, 1986, 1987, 1992, 1993, 1995, 2002.
- FAO Guidelines for Soil Description, v3 and v4 (1990, 2006)
- Reprint of the Revised legend of the Soil map of the World, 1988, 1990.
- Lecture Notes on the Major Soil of the World



Current collaboration



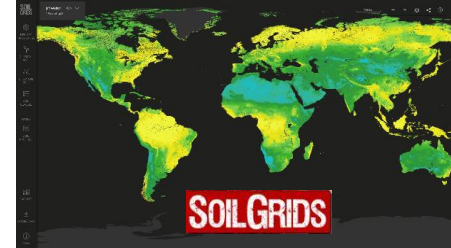
- **WRB soil classification:** training, correlate national and WRB systems, IUSS Working Group WRB
- **Land resources planning**
 - Add to toolbox, capacity building
- Technical exchange on **development and integration of (Glo)SIS components**
 - Enabling environment and user needs assessment, standards (collection, storage, data, mapping), data harmonisation tools, joint NSIS software, adoption of best practices for scaling, collaboration in technical networks (INSII, GLOSOLAN, IUSS SIS, GloSIS WG)



Current collaboration



- Contribution to GSP Data activities
- Long term partners in **WOCA**T
- **SoilFER project**: development of Decision Support Tools for soil fertility management, in cooperation with IFDC
- Contributions to INSII
- MoU FAO-ISRIC under development



Supporting national level soil information providers

Coalition for Soil Information in Africa (C4SISA)

- Support the Soil Initiative for Africa (African Union) to ‘*establish and operationalize continental, regional, and national soil information systems*’
- FARA, ISRIC, FAO, CABI
- endorsed by the AU during the 2024 CAADP PP meeting in Harare

