



ILHAM-EC

Scientific Group meeting

Cairo, 28 November 2016

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Participatory workshop

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Existing web tools for sustainable land management

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Sustainable Land Management

Sustainable land management is a knowledge-based procedure that helps integrate land, water, biodiversity, and environmental management (including input and output externalities) to meet rising food and fiber demands while sustaining ecosystem services and livelihoods.

(World Bank, 2008)



Sustainable Land Management

Sustainable land management combines technologies, policies, and activities aimed at integrating socioeconomic principles with environmental concerns, so as to simultaneously:

- maintain and enhance production (productivity)
- reduce the level of production risk, and enhance soil capacity to buffer against degradation processes (stability/resilience)
- protect the potential of natural resources and prevent degradation of soil and water quality (protection)
- be economically viable (viability)
- be socially acceptable, and assure access to the benefits from improved land management (acceptability/equity)

(World Bank, 2008)



Remote sensing



- <https://earth.esa.int/web/guest/home;jsessionid=FF1B164E8F13CA5E8575F4BE9F7CC9E4.jvm1>



- http://www.pecad.fas.usda.gov/cropexplorer/global_reservoir/



- <http://remotesensing.usgs.gov/>



- <https://modis.gsfc.nasa.gov/>

Data and software for analyzing space information regarding land, sea, surface water, crops, vegetation, natural ecosystems, atmosphere, etc.



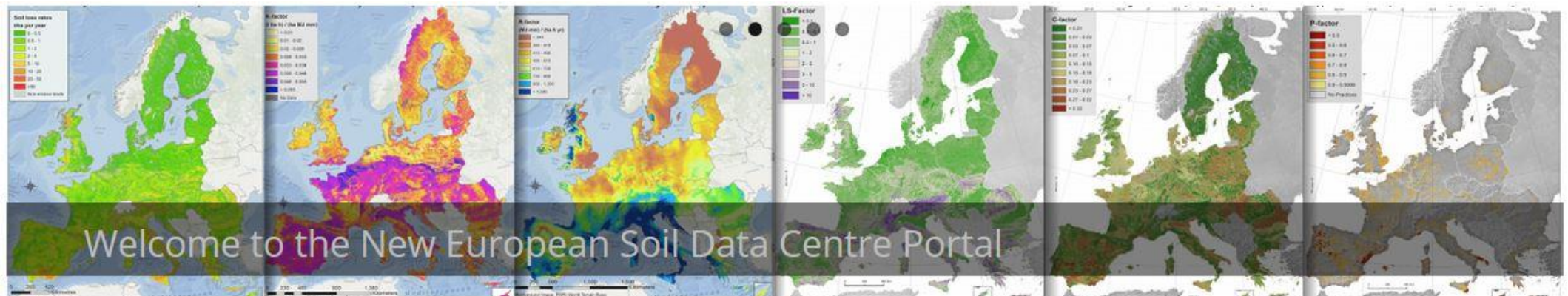
Hydrological data and modeling

- <http://hydrosheds.cr.usgs.gov>
- <http://www.hydro.washin>
- http://www.iwmi.cgiar.org/assessment/Research_Projects/River_Basin_Development_and_Management/gton.edu/Lettenmaier/Models/DHSVM/index.shtml
- <http://www.dartmouth.edu/~floods/>



Soil resources data

- <http://www.isric.org/>
- <http://www.fao.org/soils-portal/en/>
- <http://eusoils.jrc.ec.europa.eu/>
- <http://www.nrcs.usda.gov/wps/portal/nrcs/site/soils/home/>





Sustainable agriculture

- <http://www.fao.org/soils-portal/soil-management/other-slm-tools/en>
- <http://www.fao.org/tc/exact/sustainable-agriculture-platform-pilot-website/en/>



Plant biodiversity

- <http://www.gbif.org/>
- <https://www.unep-wcmc.org/>
- <http://www.natureserve.org/>
- <http://www.cbmglobe.org/softwaredev.htm>



Integrated global observation for land

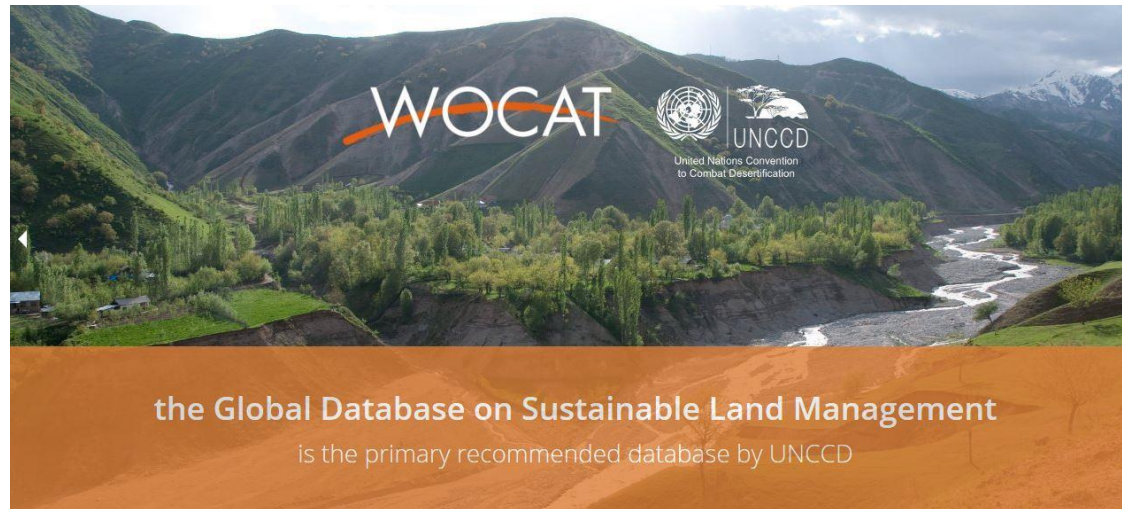


<http://www.fao.org/gtos/igol/>

Integrated Global Observations for Land (IGOL) is a theme of the Integrated Global Observing Strategy (IGOS). IGOS seeks to provide a comprehensive framework to harmonize the common interests of the major space-based and in-situ systems for global observation of the Earth. It is being developed as an over-arching strategy for conducting observations relating to climate and atmosphere, oceans and coasts, the land surface and the Earth's interior.



WOCAT SLM database



<https://qcat.wocat.net/en/wocat/>

World Overview of Conservation Approaches and Technologies is an established global network which supports innovation and decision-making processes in Sustainable Land Management.

The network provides tools that allow SLM specialists to identify fields and needs of action and share their valuable knowledge in land management.



Thank you