

Method/Framework	Implementer	Access	Main Indicators	Spatial Scale/Resolution	Maximum depth	Number of layers	Accuracy	Pro	Con	Interlinkages	Last Reviewed/
SoilGrids (v0.5.3)	ISRIC	https://soilgrids.org	organic carbon, pH, texture fractions, coarse fragments, bulk density, depth to bedrock (R horizon) CEC, predictions for soil types based on the FAO's World Reference Base classes and USDA's Soil Taxonomy classes	250 m to 1km	2m	6 (0-5cm, 5-15cm, 15-30cm, 30-60cm, 60-100cm, 100-200cm)	Validation tool available	High spatial resolution, provides an 90% confidence intervals (per indicator and per pixel), strong organization, active software and data development with strong linkages to international community, open source/open access, internationally comparable	Based on best fit using automated global soil mapping, finer-scale products (100m, 10m) under development but not released relatively high labor and data input required, limited data available, data not easily accessible, site specific, not internationally comparable	Uses the WoSIS soil profile database which collects and tries to harmonize soil profile data; suggest Soil Geographic Databases compendium of data from national, regional, local and NGO organizations (https://www.isric.org/explore/soil-geographic-databases)	8 January, 2019
Land Degradation Surveillance Framework	ICRAF, CIAT	hosted at World Agroforestry Centre (ICRAF), not accessible directly ESDAC (European Soil Data Centre) https://esdac.jrc.ec.europa.eu/content/global-soil-organic-carbon-estimates	Soil health, land use, land cover phenology, biodiversity, erosion	5m to 500m	50cm	2 (0 - 20cm, 20 - 50cm)	n/a	covers 3 indicators, high accuracy, different resolutions		Most recent information published 2015 (http://landscapeportal.org/blog/2015/03/25/the-land-degradation-surveillance-framework-lds/), although map of employment updated as of early 2018	8 January, 2019
Threats to Soil	JRC	http://www.fao.org/soils-portal/soil-survey/soil-maps-and-databases/harmonized-world-soil-database-v12/en/	SOC, erosion, WRB soil groups, etc.	30 arc-sec (~1km)	100cm	either 0 - 10, 0 - 30, or 0 - 100cm	n/a	portal for soil assessments, e.g. LADA, GLADIS, DESIRE	Last updated 2012, not readily available data, only for Europe and global, not internationally comparable	Harmonized World Soil Database	8 January, 2019
Harmonized World Soil database (v1.2)	UNEP-WCMC, JRC, FAO, IIASA, ISRIC, Institute of Soil Science, ISSCAS		SOC tC/ha, terrain, land cover, soil quality	30 arc-sec (~1km)	100cm	either 0 - 10, 0 - 30, or 0 - 100cm	n/a	Globally available, internationally comparable	Coarse resolution, not updated		8 January, 2019
Global Soil Organic Carbon Map (GSOCmap V1.2.0)	FAO Global Soil Partnership, Intergovernmental Technical Panel on Soils	http://54.229.242.119/GSOCmap/	SOC tC/ha, bulk density,	30 arc-sec (~1km)	30cm	0 - 30cm	based on reported metadata and documentation for datasets in a given area	Assembled based on collaborative international effort, currently including contributions from 70+ nations. Directly connected to Global Soils Partnership and future developments for improved mapping and monitoring for SDG 15.3.1	Coarse resolution and shallow depth compared to SoilGrids	GLOSIS - Global Soil Information System, ISRIC, Global Soil Partnership Pillar 4 and 5 activities to harmonize and improve access to soil data	7 March, 2019