EEA geospatial data catalogue

Natural susceptibility to compaction for Eurasia, Mar. 2008

This map shows the natural susceptibility of agricultural soils to compaction if they were to be exposed to compaction. The evaluation of the soil's natural susceptibility is based on the creation of logical connections between relevant parameters (pedotransfer rules). The input parameters for these pedotransfer rules are taken from the attributes of the European soil database, e.g. soil properties: type, texture and water regime, depth to textural change and the limitation of the soil for agricultural use. Besides the main parameters auxiliary parameters have been used as impermeable layer, depth of an obstacle to roots, water management system, dominant and secondary land use. It was assumed that every soil, as a porous medium, could be compacted.

The map of natural soil susceptibility to compaction was created from the evaluation of selected parameters from the ESDB. The soil susceptibility to compaction was divided into 4 categories. Two additional categories represent the data concerning places where this evaluation was either not relevant or could not been provided because of lack of information. In total there are 6 categories (attribute "Evaluation" in the shapefile):

0 - no soil. This represents water bodies, glaciers and rock outcrops

1 - low susceptibility to compaction

2. - medium susceptibility to compaction

3. - high susceptibility to compaction

4. - very high susceptibility to compaction

9. - no evaluation possible. This was the case of towns including also soils, soils disturbed by man and marsh.

This metadata record is adapted from the orginal one received from JRC.

Simple

Date (Creation)	2008-03-01
Citation identifier	jrc_v_3035_1_mio_esdb-comp-susc-eurasia_1974-2004

Point of contact

No information provided.

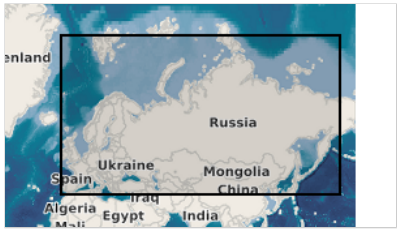
Point of contact

No information provided.

GEMET - INSPIRE themes, version 1.0	• Soil
GEMET	• soil • soil compaction
Keywords	
Keywords	
EEA topics	• Agriculture and food • Soil
Use limitation	Notification regarding these data: The data of the "Map of Natural Susceptibility of Soils to Compaction" are made available for research purposes only and not for any other activity. The data of the "Map of Natural Susceptibility of Soils to Compaction" were elaborated by the DG Joint Research Centre of the European Commission (JRC) through the processing of the data of the European Soil Database v2 (ESDB v2) which was developed by JRC in collaboration with the European Soil Bureau Network, which holds a joint copyright to the data with the European

	Commission. The data are the result of a JRC internal research activity; the underlying model and resulting data still need to be validated and verified; no formal quality check on the data has been made yet. The JRC, on behalf of the Commission, does not accept any liability whatsoever for any error, missing data or omissions in the data, or for any loss or damage arising from its use. The JRC, on behalf of the Commission, agrees to provide the data free of charge but is not bound to justify the content and values contained in the databases. The permission to use the data specified above is granted on condition that, under no circumstances are these data passed to third parties. Moreover they must not be used in any way for commercial gain or for purposes other than those specified above. The user agrees to: a) Make proper reference to the source of the data when disseminating the results to which this agreement relates; b) Participate in the verification of the data (e.g. by noting and reporting any errors or omissions discovered to the JRC). Reference of source (Citations) : Panagos P., Van Liedekerke M., Jones A., Montanarella L. European Soil Data Centre: Response to European policy support and public data requirements. (2012) Land Use Policy, 29 (2), pp. 329-338. doi:10.1016/j.landusepol.2011.07.003 "Map for Europe of Natural Susceptibility of Soils to Compaction", Beata Houkova and Marc Van Liedekerke, Land Management and Natural Hazards Unit, Institute for Environment & Sustainability, European Commission DG Joint Research Centre, 2008 Reference of source : "Map for Europe of Natural Susceptibility of Soils to Compaction", Beata Houkov and Marc Van Liedekerke, Land Management and Natural Hazards Unit, Institute for Environment & Sustainability, European Commission DG Joint Research Centre, 2008
Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Vector
Denominator	1000000
Language of dataset	English
Character set	UTF8
Topic category	• Geoscientific information

80.00	N	34.56	S	170.00	E	-10.58	W



Begin date	2000-01-01
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Coordinate reference system identifier	EPSG:3035
Distribution format	• SHP ( )

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	Refer to the document documentation/Report_Map_of_Natural_Susceptibility_Soils_to_Compaction_v1.pdf

Metadata

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Hierarchy level	Dataset
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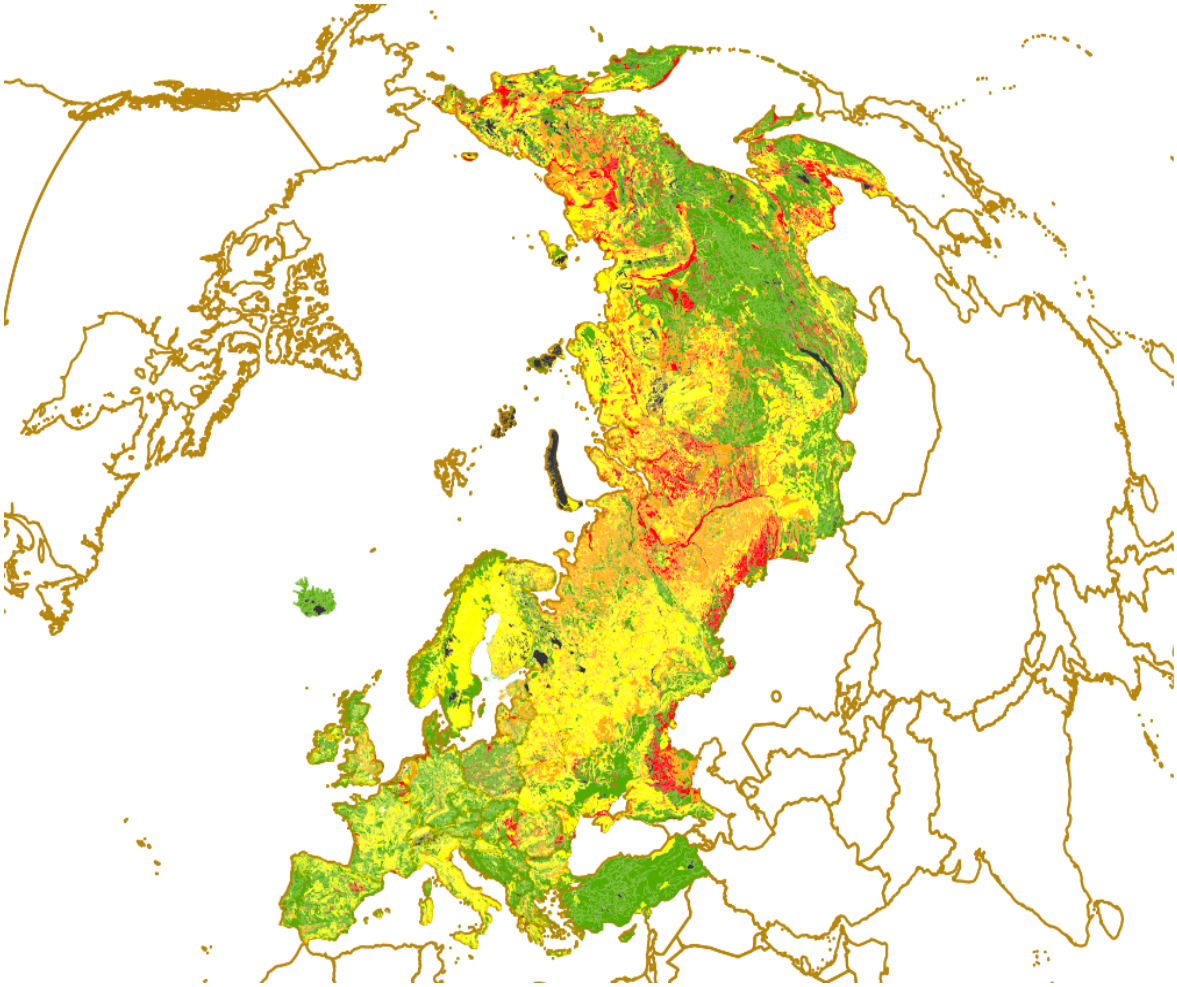
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0
Metadata author	**Organisation name** / **Individual name** / **Electronic mail address** / **Website** / **Role** European Environment Agency / / sdi@eea.europa.eu / / Point of contact

Overviews



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