

Topographic map 1:250 000

Topographic map 1:250 000 of the National Land Survey is a data set depicting the terrain of all of Finland. Topographic map 1:250 000 is compiled by generalising Topographic map 1:100 000. The geographic names used in Topographic map 1:250 000 is derived from the version Map names 1:250 000 of the product Geographic names. The key objects on Topographic map 1:250 000 are the road network, populations centres, administrative borders, geographic names, land use, waterways and elevation. The product is in vector format.

The information concerning the administrative borders, the geographic names and the main roads of the road network are updated annually and the other elements every 2-10 years. Topographic map 1:250 000 is available as a version covering the whole of Finland and as versions covering a particular area or a particular set of data.

Topographic map 1:250 000 is not available via the service interface.

The product is a part of the open data of the National Land Survey of Finland. More information: Acquisition of open data <http://www.maanmittauslaitos.fi/en/opendata/acquisition>

Purpose:

Topographic map 1:250 000 can be used for example in producing map products and as an approach map in mobile devices and Internet services and also in various forms of optimisation and analyses.

Geographic location:

Entire Finland

Responsible party:

National Land Survey of Finland

Scale:

1:250000

Spatial representation:

Vector

Spatial representation**info:**

Full surface graph

Data content:

Data content by element:

Traffic network

The element includes roads generalised from the Topographic map 1:100 000, railroads and the Finnish Maritime Administration's boating routes.

Cable connections

The element includes high-voltage power lines with over 110 kW that are generalised from Topographic map 1:100 000 as well as significant natural gas connections.

Buildings and population centres

The element includes the buildings and population centres generalised from Topographic map 1:100 000.

Geographic names

The element includes Map names 1:250 000 from the product geographic names.

Administrative borders

The element includes the administrative regions generalised from Topographic map 1:100 000 as well as specific information on municipal regions created for Topographic map 1:100 000 such as names and number codes of municipalities, regional municipalities and those of provinces and regional state administrative agencies. The yearly information to update the element is taken from the data set Municipal Division 1:100 000.

Elevation

The element includes contour lines generalised from Topographic map 1:100 000. The distance between the lines is 20 meters.

Waters

The element includes running and stagnant waters generalised from Topographic map 1:100 000.

Fields

The element includes agricultural lands generalised from Topographic map 1:100 000 (fields and orchards).

Swamps

The element includes swamps generalised from Topographic map 1:100 000.

Object codes for Topographic map 1:250 000 (in

Finnish):http://www.maanmittauslaitos.fi/sites/default/files/Maastokartta_250000_koodit.pdf

A more precise description of the objects on Topographic map 1:250 000 is found in the object model (in

Finnish):http://www.maanmittauslaitos.fi/sites/default/files/Maasto250_kohdemalli.pdf

Maintenance:

The information concerning the administrative borders, the geographic names and the main roads of the road network are updated once a year and the other elements every 2-10 years. The maintenance work is done by the National Land Survey. The maintenance chart for the Topographic map 1:250 000 (in Finnish) is found

at:http://www.maanmittauslaitos.fi/sites/default/files/maastokartta_250000_ajantasa.pdf

Quality information

Lineage:

Topographic map 1:250 000 is a data set derived from Topographic map 1:100 000 by generalising. Topographic map 1:100 000 has been generalised from the Topographic database.

The coverage of Topographic map 1:250 000 corresponds to that of the Topographic database. The positional accuracy of the objects on the map in relation to that of the objects in the terrain corresponds to the positional accuracy in the Topographic database taking into account the change caused by the generalisation of the data. The feature information of the objects in the Topographic map 1:250 000 derive mostly from the Topographic database. The data concerning administrative borders also includes feature information from Topographic map 1:100 000.

The scale of the change in positional accuracy caused by generalisation depends on the generalisation parameters used. Because different generalisation functions cause different amounts of change in positional accuracy, the material cannot be given only one positional accuracy figure. Generalisations used in case of area objects and objects represented by lines are dot filtering and simplification of small arcs. Furthermore, area objects have been integrated with adjacent objects that belong to the same object category. Narrow parts of areas are also integrated into adjacent areas. In case of objects represented by lines, the adjacent lines with the same features have been integrated into each other. Short road, water and shore lines have also been integrated with the adjacent lines.

The most central parameters that affect positional accuracy are mentioned in the object model (in Finnish):http://www.maanmittauslaitos.fi/sites/default/files/Maasto250_kohdemalli.ppt

Up-to-date accuracy:

The up-to-date accuracy of the data varies depending on the object. It depends on the point of time when the data was entered into the Topographic database and when the objects were detached from it. The up-to-date accuracy is also affected by the quality control of the objects. The maintenance chart for Topographic map 1:250 000 is found at (in Finnish):[http://www.maanmittauslaitos.fi/sites/default/files/maastokartta_250000_aj](http://www.maanmittauslaitos.fi/sites/default/files/maastokartta_250000_ajantasatiedot.pdf)

Quality control:

The quality control of Topographic map 1:250 000 is done according to the NLS quality control of small scale map databases. The quality control describes the origin of the data, the object model, the production environment, the production process, the work instructions, the training, the supervision, the up-to-date accuracy, the positional accuracy and the quality control principles of the data.

Topographic map 1:250 000 has undergone a quality control in 2011 and the errors found have been corrected in the database. The maintenance chart for Topographic map 1:250 000 (in Finnish) is found at:http://www.maanmittauslaitos.fi/sites/default/files/m250_laaturkastus.pdf

Conformity: Information product specification: [theme] 2010-01-07 The information product specification has not been published yet. false

Distribution and further information

Distributor: National Land Survey of Finland, asiakaspalvelu@nls.fi

Retailers (in Finnish), <http://www.maanmittauslaitos.fi/aineistot-palvelut/digitaaliset-tuotteet/hankinta-o>

Conditions applying to access and use: The product belongs to the open data of the National Land Survey. Open data license:<http://www.maanmittauslaitos.fi/en/en/national-land-survey-open-data-cc-40-licence> . More information: Acquisition of open data<http://www.maanmittauslaitos.fi/en/opendata/acquisition> . Topographic map 1:250 000 is available as a version covering the whole of Finland and as versions covering a particular area or particular data content. The area definition is based on map sheets, administrative borders or the customer's own demarcation. The data set Topographic map 1:250 000 is delivered according to the TM35 map sheet division as halves of 1:200 000 sheets (96 km x 96 km). The Topographic map 1:250 000 administrative borders are also available as an unbroken piece covering entire Finland. CAUTION: Not intended for navigational use. The Finnish Transport Agency has not checked the information in this product, and is not responsible for its correctness or amendments made to the product.

Limitations on access: The copyright and the other immaterial rights on Topographic map 1:250 000 are owned by the National Land Survey of Finland. The product is based on the data of the Topographic database. The Topographic database is maintained by using data from the municipalities. The Finnish Transport Agency and the Finnish Environment Institute have the copyright on the route information used in creating Topographic map 1:250 000. The data material is not confidential. Public access to the material is not restricted by the INSPIRE Directive.

Reference system: ETRS-TM35FIN

Distribution format: MapInfo MIF, ArcInfo shape
