

Elevation model 10 m

Elevation model 10 m depicts the elevation of the ground surface of the whole of Finland in relation to sea level. Its grid size is 10 m x 10 m and the accuracy of elevation data 1.4 metres.

The product belongs to the open data of the National Land Survey of Finland. More information: Topographic data and how to acquire it <http://www.maanmittauslaitos.fi/en/maps-and-spatial-data/expert-users/topographic-data-and-how-acquire-it>.

Purpose:

The elevation model allows for example simulation of receiving, coverage and service areas. It can also be used for mass calculation of excavated material and landfill and for calculating inclinations, steepness or profiles. Application areas are found, for example in geology, geography and forestry.

Geographic location

Entire Finland

Responsible party

National Land Survey of Finland

Pixel size

10 m

Spatial representation

Text or table

▼ Quality information

Lineage

Elevation model 10 m depicts the height of the terrain above sea level. The height values are in accordance with the system N2000. Elevation model 10 m is the most accurate elevation model of Finland that covers the whole of the country.

The elevation accuracy of the product is 1.4 m on average (1.4 m in 95% of the cases and 2 m in 99% of the cases). In the ASCII version the elevation data is expressed in metres (three decimals, e.g. 42.604) and in the GeoTiff version as float values in metres (only the first three decimals are significant). In both versions, objects below sea level have a negative value.

About 75 percent of the product Elevation model 10 m has been produced of contour lines made more accurate in connection with the regular maintenance procedures of the Topographical database, of ground surface points digitised in a stereo workstation environment and of all the objects in the Topographical database with a coordinate z. A small part of the areas in the product Elevation model 10 m has been derived from Elevation model 2 m.

Regarding these areas, the elevation and detail accuracy is considerably better. The rest of the model is produced of the Topographic database contour lines with no recent update.

Conformity

COMMISSION REGULATION (EU) No 1089/2010 given 23 November 2015, implementing Directive 2007/2/EC of the European Parliament and of the Council as regards the interoperability of spatial data sets and services.

2010-12-08

The product does not meet the specifications.

Close

▼ Distribution and further information

Distributor

National Land Survey of Finland customerservice@nls.fi

Conditions applying to access and use

The product belongs to the open data of the National Land Survey of Finland. Open data license <http://www.maanmittauslaitos.fi/en/maps-and-spatial-data/expert-users/en-maastotiedot-ja-niiden-hankinta/open-data-cc-40-licence>.

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Elevation model 10 m is available as a version covering the whole of Finland and as versions covering a particular area. The area definition is done according to the TM35 map sheet division.

Limitations on access

Copyright and other immaterial rights on the dataset Elevation model 10 m are owned by the National Land Survey of Finland. The data material is not confidential. Public access to the material is not restricted by the INSPIRE Directive.

Reference system

ETRS89 / TM35FIN(E,N) (EPSG:3067)

N2000 height (EPSG:3900)

Distribution format

Ascii grid

GeoTiff

Close

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