

# Basic map raster



Basic map raster is a dataset depicting the terrain and covering the whole of Finland. It is derived from the Topographic database and the key objects are the road network, buildings and constructions, geographic names, waterways, land use and elevation.

The positional accuracy of Basic map raster corresponds to that of scale 1:10 000. The road network is updated continuously, the administrative borders, the buildings and the geographic names yearly and the other elements approximately every 5–10 years.

Topographic map raster is available as a version covering the whole of Finland and as versions covering a particular area or particular data content.

Topographic map raster is 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>.

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## Purpose:

Basic map raster is applicable to be used, for instance, as a base map for planning land use or for excursion and outdoor recreational purposes in mobile devices and in various Internet services associated with nature. The product is applicable to be used on scales ranging from 1:8 000 - 1:20 000. By completing the data set with the address road network in vector format and geographic names the user can also compile address-based positioning and route search applications.

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## Geographic location:

Entire Finland

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## Responsible party:

National Land Survey of Finland

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## Scale:

1:20000

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## Pixel size:

1m

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## Spatial representation:

Raster

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## Data content:

#### Product versions:

##### Print colour, anti-aliased:

The colours of the print version are the same as in Basic map in print.

##### Print colour, no anti-aliased:

The colours of the print version are the same as in Basic map in print.

##### Background colour with contour lines, anti-aliased:

This version of the product is used as a background map in different kinds of presentations. Its colours have been lightened so that any other colours than black (or gray) have been removed; this applies to all other objects than waterways, fields, contour lines and figures, depth contours and figures, depth points, administrative borders, natural protected area boundaries and other special-purpose area boundaries. Fields are coloured with a lighter yellow colour than in the print version and swamps are marked with line raster. In addition, regarding swamps that are hard to cross, treeless and wooded swamps have been combined; regarding passable swamps there is no distinction between treeless and wooded swamps.

Elements (The update is from year 2012 except for the contour lines that were updated in 2014. The elements will be replaced by Inspire-theme rasters):

##### Fields

The element includes fields, orchards and meadows from the Topographic database.

##### Waters

The element includes stagnant waters, rivers, ditches, water pits and springs.

##### Traffic network

The element includes roads, streets, light-traffic routes, paths and railroads.

##### Buildings

The element includes buildings, water towers, bell towers, aerial tramways, approach lights, masts, monuments, observation towers, piers, chimneys, wind power generators and other constructions as well as specifications.

##### Swamps

The element includes swamps, peat-covered areas and areas for extraction of organic material

##### Elevation

The element includes contour lines, depth contours, depth points and cliffs. The product does not include depth information concerning sea areas or major lakes that is produced by the Finnish Transport Agency. The objects included in the element (in Finnish):[http://www.maanmittauslaitos.fi/sites/default/files/Teema\\_Korkeus\\_kohteet.xls](http://www.maanmittauslaitos.fi/sites/default/files/Teema_Korkeus_kohteet.xls)

##### Geographic names

The element includes all terrain and settlement names.

##### Administrative borders

The element includes the state borders, the outer limits of marine territorial waters, the extreme limits of border zone, the limits of inland territorial waters, the operational

boundaries for the Regional State Administrative Agencies, the regional borders and the municipal borders.

#### Open woodlands

The element includes wooded areas that have been cut down, wooded areas cut down to seed tree stage and areas with saplings under 1 meter tall.

#### Rocks and sands

The diameter of a rock is at least 5 meters and there is very little of loose soil or trees on it. Sands are areas of at least 1000 m<sup>2</sup> that are nearly treeless and without ground cover flora and that are covered by fine sand, sand or gravel.

For more accurate information see the Topographic database:

<http://www.maanmittauslaitos.fi/en/digituotteet/topographic-database>

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### Portrayal catalogue

#### citation:

The Basic map raster portrayal catalogue is located

at:[http://www.maanmittauslaitos.fi/sites/default/files/Karttamerkkien\\_selitys.pdf](http://www.maanmittauslaitos.fi/sites/default/files/Karttamerkkien_selitys.pdf)

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#### Maintenance:

The road network is updated constantly; the administrative borders yearly; construction information in some parts of the country yearly and the other elements one map sheet at a time approximately every 5–10 years. The most up-to-date data are available via the interface and viewing services. As for other deliveries to customers the data set is detached once a year.

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## Quality information

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#### Lineage:

Basic map raster is the NLS' most accurate nationwide map data set in raster format. The source data is derived from the Topographic database.

The updating frequency varies depending on the object (see Maintenance).

Different objects have different requirements for positional accuracy; for most man-made constructions the requirement is 3 meters. The positional accuracy of the objects in the Topographic database is with a 95 percent probability in accordance with the minimum requirements stated in the quality model.

The positional accuracy of the objects in raster data sets depends on pixel size and description technique. Compared to the Topographic database, the portrayal of the Basic map raster objects has not been generalised.

More accurate information: the Topographic database <http://www.maanmittauslaitos.fi/en/digituotteet/topographic-database>

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#### Conformity:

Data product definition: [theme], 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 2010-01-07 2010-01-07, 2010-12-08 The information product specification has not been published yet., The conformity has not been assessed. false

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## Distribution and further information

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<b>Distributor:</b>	National Land Survey of Finland, <a href="mailto:asiakaspalvelu@nls.fi">asiakaspalvelu@nls.fi</a>  Retailers (in Finnish), <a href="http://www.maanmittauslaitos.fi/aineistot-palvelut/digitaaliset-tuotteet/hankinta-o">http://www.maanmittauslaitos.fi/aineistot-palvelut/digitaaliset-tuotteet/hankinta-o</a>
<b>Conditions applying to access and use:</b>	The product belongs to the open data of the National Land Survey. Open data license: <a href="http://www.maanmittauslaitos.fi/en/en/national-land-survey-open-data-cc-40-licence">http://www.maanmittauslaitos.fi/en/en/national-land-survey-open-data-cc-40-licence</a> . More information: Acquisition of open data <a href="http://www.maanmittauslaitos.fi/en/opendata/acquisition">http://www.maanmittauslaitos.fi/en/opendata/acquisition</a> . Basic map raster 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 sheet division (12 x 12 km). The product is available as following versions: Print and Background colour with contour lines. The separate elements available of Basic map raster include fields, waterways, the traffic network, buildings, swamps, elevation, geographic names, administrative borders, open woodlands, rocks and sands. Basic map raster is available via Web Map Services (WMS and WMTS, theme rasters only WMTS) (in Finnish) <a href="http://www.maanmittauslaitos.fi/aineistot-palvelut/rajapintapalvelut/karttakuvapalvelu-wms">http://www.maanmittauslaitos.fi/aineistot-palvelut/rajapintapalvelut/karttakuvapalvelu-wms</a> , and <a href="http://www.maanmittauslaitos.fi/aineistot-palvelut/rajapintapalvelut/karttakuvapalvelu-wmts">http://www.maanmittauslaitos.fi/aineistot-palvelut/rajapintapalvelut/karttakuvapalvelu-wmts</a> . 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.
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<b>Reference system:</b>	ETRS-TM35FIN
<b>Distribution format:</b>	PNG

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