LANTMÄTERIET

PRODUCT DESCRIPTION

Map 1:50 000 Download, raster

DOCUMENT VERSION: 1.7

Figure 1. Section of Map 1:50 000 Download, raster.

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1 General description

Map 1:50 000 Download, raster has similar content as Topography 50 Download, vector and is primarily designed for printing. It includes, among other things, buildings, land cover, and roads.

1.1 Contents

A summary overview is available on the Lantmäteriet website under Map 1:50 000, raster - Documentation.

1.2 Geographic coverage

Nationwide.

1.3 Geographic extent

The geographic extent depends on the choice made when ordering.

Ordering can be done by:

- municipality
- county
- Sweden
- fixed subdivision in 50x50 km squares according to the index system for SWEREF 99 TM

Delivery:

- index squares 50x50 km
- affected index squares 50x50 km for municipality
- affected index squares 50x50 km for county
- affected index squares 50x50 km for Sweden

1.4 Coordinate system

Plane: SWEREF 99 TM.

1.5 Format

Map 1:50 000 Download, raster can be ordered in the formats LZW-compressed GeoTIFF or PNG.

For more information, see chapter 3 Contents of the delivery.

2 Quality description

2.1 Purpose and utility

Map 1:50 000 Download, raster is well-suited to be used for printing. The map contains for instance buildings, roads, and ground types.

The map can also be used for creation of consequent products and as input data to geographic information systems.

2.2   Data capture

2.2.1   LINEAGE

Map 1:50 000 Download, raster is produced through cartographic generalization using the information in Topography 10 Download, vector as a basis.

For more information about lineage, please refer primarily to the product description for [Topography 50 Download, vector](#).

2.3   Maintenance

Lantmäteriet's basic data and Topography 10 Download, vector form the basis for updating Map 1:50 000 Download, raster.

2.3.1   MAINTENANCE FREQUENCY

Topographic information is updated with varying intervals depending on object. New files for Map 1:50 000 Download, raster is produced once a month.

For more information about maintenance, please refer primarily to the product description for [Topography 50 Download, vector](#).

2.4   Data quality

2.4.1   COMPLETENESS

Completeness is related to Lantmäteriet's selection of each object type. Completeness is described as omission or commission. In case of commission, more objects are included than described in the selection. In case of omission fewer objects are included. There are also some generalisation rules for information that mean that not all objects are presented on the map.

For more information about completeness and selection, please refer primally to the product description for [Topography 50 Download, vector,](#) and the sections describing included layers.

2.4.2   LOGICAL CONSISTENCY

Geometric positions of point objects, line objects, and surfaces are required to have such a structure that it is possible to easily create topology.

When storing objects in the database at Lantmäteriet, it is ensured that the objects follow the geometric and topological rules that are set up and that the information complies with Open Geospatial Consortium's (OGC) requirements for geometries. It is also ensured that only valid value ranges and detail types are inserted into the database.

For more information about logical consistency, please refer to the product description for [Topography 50 Download, vector](#).

2.4.3 THEMATIC ACCURACY

For more information about thematic accuracy, i.e., ensuring that the classification of each object is correct, please refer to the product description for [Topography 50 Download, vector](#).
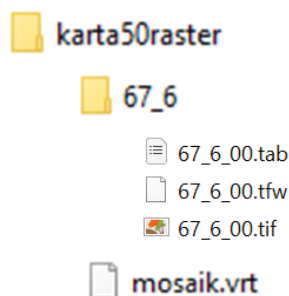
2.4.4 POSITIONAL ACCURACY

The raster image for a 50x50 km square is 10 000 x 10 000 pixels. This means that the resolution for digital map images is 5 meters on the ground.

3 Contents of the delivery

3.1 Folder structure at delivery

In a delivery, files are sorted into different catalogues, see the example below for how a delivery of Map 1:50 000 Download, raster in SWEREF 99 TM can look like.

Figure 2. Catalogue structure.

3.1.1 THE CATALOGUE KARTA50RASTER

Under this catalogue, the file *mosaik.vrt* is located; a file that creates a virtual mosaic of all map sheets in the delivery.

3.1.2 THE CATALOGUE 67_6

The naming of the catalogue is based on the coordinates of the map area and is therefore dynamic. The catalogue name consists of the two first numbers in the north-south direction (northern) and the first number in east-west direction (eastern) in the lower left corner, e.g., 67_6.

Under this catalogue, the image files with attached georeferencing files are located.

3.2 Delivery format

Map 1:50 000 Download, raster is delivered in LZW-compressed GeoTIFF or PNG, together with associated coordinate information. Coordinate information for MapInfo is always included in the delivery. Map 1:50 000 Download, raster can be delivered in SWEREF 99 TM as well as local SWEREF zones.

The file size for a raster image of 50x50 km is approximately 50 MB (applies to LZW-compressed GeoTIFF).

3.2.1 FILE SETS

The choice of delivery format determines which files are delivered.

Table 1. File sets for LZW-compressed GeoTIFF and PNG.

LZW-compressed GeoTIFF	PNG
filnamn.tab (georeferencing file for MapInfo)	*filnamn*.tab (georeferencing file for MapInfo)
filnamn.tfw (georeferencing file for TIFF-format)	*filnamn*.pgw (georeferencing file for png-format)
filnamn.tif (image file)	*filnamn*.png (image file)

3.2.2 FILE NAME

The name of the files corresponds to the index square designation. Files extracted in SWEREF's local zones are named with a zone prefix first in the file name, e.g., *1200_xxx*.

Table 2. Alternative file names at extracting an index square 50x50 km.

Alternative file names index square 50x50km	Explanation
67_6_00.tif (standard)	The index square's designation according to the index system
1200_67_6_00.tif	Local SWEREF zone together with the index square's designation

4 List of changes

Table 33. List of changes for the document.

Version	Date	Reason and change from previous version
1.7	2023-03-05	The resolution in the image is corrected to 10,000 x 10,000 pixels. The resolution on the ground is corrected to 5 m.
1.6	2023-12-01	The resolution on the ground is corrected to 10 m.
1.5	2022-09-01	New product name Map 1:50 000 Download, raster. References to the Terrain map changed to the new product Topography 50 Download, vector. The new product covers the entire country, and all information is retrieved from there.
1.4	2021-10-01	References to the Real Property Map changed to the new product Topography 10 Download, vector.
1.3	2021-02-04	Chapter 1:3 Removed: Optional section and delivery at section with min- and max coordinates. Chapter 1:4 Removed: Delivery can also be made in local SWEREF zones. Chapter 3.1 File names changed in the example. Chapter 3.2.2 Removed: Possibility to choose file name
1.2	2019-05-27 2019-04-03	Links updated.
1.1	2018-06-29	Links updated.
1.0	2017-12-19	Established version.