

Explanation of FIN2005N00.lst geoid file

The FIN2005N00 geoid height model covers the whole of Finland. Although the model goes over the borders, users are advised not to use the model outside the Finnish borders, because the model was fitted only to the Finnish height system.

The model contains geoid heights that can be used to transform ellipsoidal heights in the ETRF89 system to normal heights in the Finnish N2000 height system.

The model is a grid given as a point-list in ASCII format (FIN2005N00.lst).

The grid characteristics are:

Minimum latitude:	59.00°
Maximum latitude:	70.70°
Minimum longitude:	17.48°
Maximum longitude:	33.00°
Latitude spacing:	0.02°
Longitude spacing:	0.04°
Number of rows:	$(70.70 - 59.00) / 0.02 + 1 = 586$
Number of columns:	$(33.00 - 17.48) / 0.04 + 1 = 389$
Total number of points:	$586 \times 389 = 227\,954$

In the FIN2005N00.lst-file, the grid is given as a point-list in the following way:

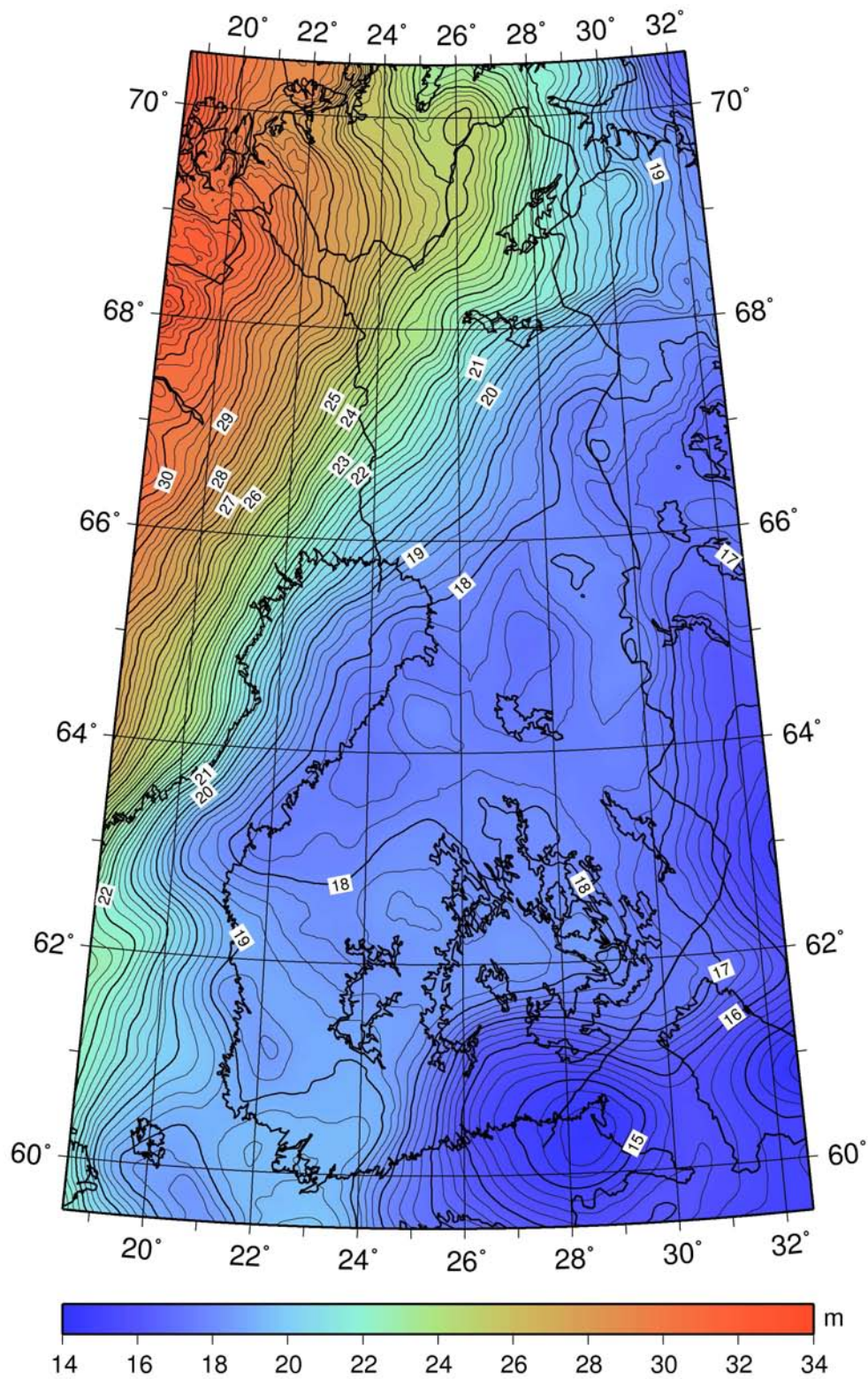
- The list starts in the northwest corner and ends in the southeast corner of the grid
- The list gives for every grid-point latitude, longitude and geoid height
- Latitudes and longitudes are given in degrees
- Geoid heights are given in metres with millimetre accuracy

A picture of the FIN2005N00 model is shown on the next page.

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FIN2005N00



FIN2005N00 geoid heights
 Distance between contour lines 0.25 m
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