

MID-NORDEN INTERNORDIC GEOPHYSICS SUB-PROJECT FOR COMPILING COMMON GEOPHYSICAL DATA BASES AND MAPS ON CENTRAL AND NORTHERN FENNOSCANDIA

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When considering the regional features controlling e.g. ore showings it is generally necessary to have geophysical data and maps covering areas of orogeny scale thus often crossing national borders. The internordic Mid-Norden Project (1986-1996) was a joint venture of the geological surveys of Finland, Norway and Sweden to provide regional geoscientific information of central Fennoscandia. The main goal of the Mid-Norden geophysics sub-project has been to prepare gravity and magnetic data matrixes and maps covering central Fennoscandia between latitudes 62°45' and 66°N and combine these with the previous Nordkalott project data up to ca. 71°N. The maps have been published in digital form and as paper maps at the scale 1:1 000 000. The digital maps can be used interactively with PCs and they can be correlated and combined with other geological data (bedrock maps, ore showings, geochemistry, seismic profiles etc) using various GIS programs. The paper maps contain general description of the data, statistics, index maps and national descriptions of Norway, Sweden and Finland separately given in English and 'national languages' (Norwegian, Swedish and Finnish). The data matrix behind the maps is used in the surveys for making various derivatives and combinations of the maps. On the poster it is demonstrated the use of the various map versions for analyzing the connections of ore showings with regional anomaly zones and tectonic features. The combination of gravity and magnetic maps allows the user to divide the area in regional blocks (gravity data) and analyze their detailed structures (magnetic data).