

Validation and Preparation of Data for the Computation of a New Height System in Sweden

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ABSTRACT

The production work in the third precise levelling of Sweden is now completed after 25 years. Some 50 000 km has been levelled using the motorised levelling technique, and some 50 000 new benchmarks have been established. A lot of effort was put in to the project in the beginning to create a digital production line and the same production line as well as measuring technique has been used throughout the project. The main task now is to work towards the creation of a new height system in Sweden.

A project was organised in 2001 focused on validating the data and looking for systematic errors. This project has ended and a new project has started discussing how to model the land uplift that is affecting Sweden.

This paper will present some results from 25 years of motorised levelling. It will also discuss the major work of quality assurance of the levelling data and the problems that we have experienced. It will also discuss the necessary next steps in order to complete the new height system in Sweden.

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TS5.3 Height Determinations: Height Network

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