

## Peat and peatlands research and database in the Geological Survey of Finland

Laatikainen, M., Toivonen, T., Vähäkuopus, T. and Valpola, S.E  
Geological Survey of Finland, P.O Box 97, FI-67900 Kokkola, Finland samu.valpola@gtk.fi

The Geological Survey of Finland (GTK) has investigated ca. 2.2 million hectares of mires and peatlands throughout the Finland. During these investigations GTK has used the most up-to-date mapping and data storage methods and has continually made improvements to the mapping processes. Nowadays our mapping is a mixture of traditional and modern methods: peat sample is obtained traditionally with Russian corer and data collection is made with tablets. Data is stored directly to the database format, checked and eventually stored in the vast GTK peat database.

This database is a unique and world record peat database: it consists totally ~1.7 M peat study points, comprising totally 17 700 peatlands. Altogether the peat database has over 228 M data enquiries related to peat thickness and peat quality, mire types, information on vegetation, bottom soil material, chemical and physical properties etc. Significant part of this data is available via web service at [www.gtk.fi/turvevarat](http://www.gtk.fi/turvevarat).