

## **The scientific drilling EF-FB 1/12: Introduction and first stratigraphic results of the new drilling in the central part of the Thuringian Syncline**

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### **Abstract**

In the summer of 2013 a scientific deep drilling EF-FB 1/12 in the north of Erfurt was carried out in the framework of the BMBF-project INFLUINS. The drilling penetrated the Quaternary cover and the underlying Triassic succession from the Middle Keuper to short above the Buntsandstein-Zechstein boundary at about 1200 m. Over the whole interval 646 m cuttings and 533 m cores were sampled. The core recovery was very high with almost 100 % and excellently preserved sandstones, siltstones and mudstones as well as carbonates, sulphates and chlorides were recovered.

The cored intervals cover two intervals; the section from the base of the Upper Muschelkalk to the Top of the Lower Muschelkalk with 41 m of salt in the Middle Muschelkalk without signs of subsidence as well as a section from the base of the Lower Muschelkalk to the base of the Middle Buntsandstein with 46 m of undisturbed salt layers in the Upper Buntsandstein.