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„A digital geological layer of the area of Bohemia, Moravia and Silesia on a base of manuscript maps at a scale of 1:28 000 from a half of the 19th century“.

„Digitalisierte geologische Lithologien im Gebiet von Böhmen, Mähren und Schlesien aufgrund der Manuskriptkarten aus der Mitte des 19. Jahrhunderts im Maßstab 1:28 000“.

„Digitalizovaná geologická vrstva v oblasti Čiech, Moravy a Sliezska na základe rukopisných máp z polovice 19. storočia v mierke 1 : 28 000.“

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Abstract

In 2006, the team of the Archive of the Czech Geological Survey (CGS) was given a chance to digitize a set of historical geological maps from the Library of Geologische Bundesanstalt in Vienna. The set contained 414 manuscript maps from the second half of the 19th century, which were depicted on the copied topographical background of the Second Military Mapping Survey of the Austrian Empire at a scale of 1 : 28 800. The team in Prague focused only on digitizing of maps which covered the area of Bohemia, Moravia and Silesia. The main goal of subsequent works was to combine individual scans into one integral geological map that could be used in geographic information systems (GIS) and also published as a map service for public. Using the method of georeferencing we created a unique historical geological layer/map. In addition we also processed a set of printed and colored geological maps of the Special map of the Kingdom of Bohemia at a scale of 1 : 144 000 from 1853-1863. These maps are based on the previous geological mapping. In both cases, the goal was to accompany the final digitized map document with available information on the authors of maps or exact time when the maps were made. The CGS team also prepared a basis for creating a German - Czech translation dictionary of the titles of maps. The above-mentioned interactive map application served via CGS map server will be published in the near future. We also plan to make available a set of geological maps at a scale of 1 : 144 000 edited by Franz Foetterle from the 1850s to 1860s for the area of Moravia and Silesia. We suppose that our interoperable geological map service will be used in both institutions as the cornerstone for further research on history of geological knowledge in our countries.

*Kultúrne dedičstvo v geológii, baníctve a hutníctve
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