



# Geological Map of the Czech Republic

## 1 : 500 000

*After forty years, the Czech Geological Survey publishes a new geological map of the Czech Republic at a scale of 1 : 500 000. The map is a result of long-time efforts of our leading geologists to provide the most reliable image of the geological structure of the country's territory. At the same time the map expresses the authors' own interpretation of the depicted geological settings. The new quality of the present uncovered map consists in the fact that it generalizes geological data acquired during the geological survey of the territory of the Czech Republic at a scale of 1 : 50 000 performed by a few generations of field geologists of the Czech Geological Survey together with other geological institutions. The new map is also completely digital and will be incorporated into the regional geographic information system. The map is intended to serve not only professional geologists but should also be useful in the teaching geology, and I believe it could even reach appreciation by the broader informed public.*

Director of the Czech Geological Survey

### Authors

**RNDr. JAN CHÁB, Ph.D.**

He has mostly been involved in studies of petrology of metamorphic and intrusive rocks and in the synthesis of geological structure of the Bohemian Massif. He worked in the Precambrian of Central and West Bohemia, the Železné hory Mts., the basement of the Bohemian Cretaceous Basin, the crystalline complex of the Hrubý Jeseník Mts. and the Giant Mountains. He also shortly taught at the Department of Petrology of the Faculty of Science of Charles University, and was a member of the Scientific Board of the Geological Institute of the Academy of Sciences of the Czech Republic. He has published 90 papers of which some represent syntheses of metamorphic and structural development of the Bohemian Massif. He was in charge of mapping operations in the Precambrian of Central and West Bohemia and was involved in the survey of the Hrubý Jeseník Mts. He is the editor of several map sheets and reviewed and edited maps of the Příbram ore district.

**RNDr. ZDENĚK STRÁNÍK, DrSc.**

His major fields of interest include regional geological studies and mapping of sedimentary formations, sedimentology, stratigraphy, tectonics and petroleum geology. He paid particular attention to the Flysch Belt, Carpathian Foredeep and the Vienna Basin. He was a member of the Scientific Board and Line Committee of the Faculty of Science of Masaryk University and for many years he cooperated with the Vienna Geological Institute. He is the author of nearly two hundred papers published in Czech and foreign scientific journals including a university textbook. He has also been the editor of numerous maps 1 : 25 000 and 1 : 50 000, and cooperated in the compilation of general maps and synoptic maps at smaller scales. He is a supervisor of Ph.D. students and also gives selected lectures at the Faculty of Science of Masaryk University and popularizes earth sciences in the Moravian Museum at Brno.

**RNDr. MOJMÍR ELIÁŠ, Ph.D. (†)**

He specialized in sedimentology, sedimentary and structural geology and participated in field mapping. His major interests included the whole of the West Carpathians, flysch terrains in particular, the Carpathian Foredeep, the Nížký Jeseník Mts. and the Upper Silesian Basin. He closely cooperated with the Geological Institute of Dionýz Štúr at Bratislava, other universities and exploration companies. He was a member of the Geological Society and taught at the Faculty of Science of Charles University. He undertook numerous study trips in Europe and the United States of America and cooperated with Polish and other European geologists. He participated in a number of important international conferences and was the author of numerous papers published in Czech and foreign scientific journals. He is a co-author of geology books and a popular-science book.

### The Geological Map of the Czech Republic was compiled with the cooperation of

J. Adamovič, J. Aichler, J. Babůrek, K. Breiter, V. Cajz, K. Domečka, M. Fišera, P. Hanžl, V. Holub, P. Hradecký, I. Chlupáč (†), J. Klomínský, Z. Krejčí, J. Lexa, J. Mašek, B. Mlčoch, M. Opletal, J. Otava, P. Pálenský, M. Potfaj, V. Prouza, R. Roetzel, M. Růžička, P. Schovánek, J. Slabý, J. Valečka, V. Žáček

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### Technical layout and edition

Editor in charge: R. Tomas

Technical and cartographical edition: Z. Krejčí

Data processing in charge: M. Zemková

Data processing: J. Karenová, E. Kuncová, E. Zítová

Drawing of author's original copy: B. Valeš, E. Havlínová

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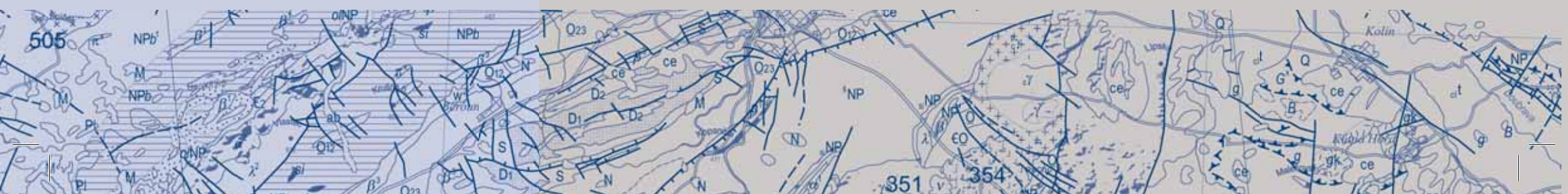
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## Old geological maps of the lands of the present Czech Republic

The illustrated summary provides a selection of the most important geological maps covering the territory of Bohemia, Moravia and Silesia at a scale close to 1 : 500 000 beginning with the very first printed map of Bohemia compiled by Franz Riepl in the year 1819 up to the last edition of the Geological map of ČSSR at a scale of 1 : 500 000 compiled by a team of geologists under the supervision of Odolen Kodým, Otto Fusan and Alois Matějka published in 1967. Old geological maps are an integral part of a large collection of maps of the Czech Geological Survey archive in Prague, which is accessible to all users on ČGS [www.geology.cz](http://www.geology.cz). Recently issued DVD-ROM "Geological maps of Europe (1780–1918) related to the territory of the Czech Republic and Slovak Republic" also contains a collection of old geological maps.

## Czech Geological Survey

The role of the Czech Geological Survey, the activities of which go back to the year 1919 when it was founded, is in pursuance of public service in the field of earth sciences in the territory of the Czech Republic. The Czech Geological Survey acquires and processes data on the geological structure of the country for the state administrative bodies for political, economic and ecological decision making.

It provides regional geological information to all interested persons or parties, ensures education in earth sciences and environmental protection and also participates in projects of foreign development programs and technical assistance provided by the Czech Republic to developing countries.

The major fields of activity of the Czech Geological Survey include:

- geological research and field mapping
- environment and its contamination
- mineral resources and impacts of their exploitation and processing
- prevention of natural dangers
- administration of geological data and providing of information

The Czech Geological Survey is the state subsidized organization, departmental research institute of the Ministry of Environment of the Czech Republic. It is a member of international bodies incorporating Geological Surveys such as EuroGeoSurveys, FOREGS (Forum of European Geological Surveys) and ICOGS (International Consortium of Geological Surveys).

[www.geology.cz](http://www.geology.cz)



**Geognostische Charte von Böhmen** bearbeitet von **Franz Riepl**, gezeichnet und in Stein graviert von Albert Richard.

Author: Franz Riepl.  
Drawn and engraved by Albert Richard.  
Vienna 1819.  
Printed by von Phillisdorf.  
Size 610 × 516 mm.  
No scale (ca 1 : 576 000).  
Color printing.

(Archive of the Czech Geological Survey – ref. # M2B329/5)



**Geologische Übersichts-Karte der Österreichisch-Ungarischen Monarchie** nach den Aufnahmen der k. k. Geologischen Reichsanstalt bearbeitet von **Franz Ritter von Hauer**.

Compiled by Wilhelm Haidinger (1850–1865) and Franz Ritter von Hauer (1865–1872). Drawn by Eduard Jahn.  
Vienna 1867–1871.  
Twelve sheets, size 617 × 591 mm.  
Scale 1 : 576 000.

Territories of the lands of the present Czech Republic are on map sheets 1, 2 and 3.

(Archive of the Czech Geological Survey – ref. # M2B329/49)



**Geologisch-montanistische Karte des Königreiches Böhmen**

entworfen und herausgegeben von A. L. Hickmann.  
Lithography: Alois Wildner, Prague.  
Printed in Liberec, 1886.  
Scale 1 : 600 000.  
Size 587 × 484 mm.

(Archive of the Czech Geological Survey – ref. # M2B329/23)



**Geological map of the Crown Lands of Bohemia.** **Karel Absolon, Zdeněk Jaroš.**

Published by R. Promberger, Olomouc.  
Printed by V. Neubert, Prague 1907.  
Scale 1 : 300 000.  
Two map sheets, size 934 × 838 mm.

(Archive of the Czech Geological Survey – ref. # M2B329/20)



**Geological map of Czechoslovakia** (Czechoslovak Republic)

**Ota Hyníe.**  
Published by the Czech Geological Survey, Prague.  
Printed by Cartographic and Reproduction Institute, Prague 1954.  
Scale 1 : 500 000.  
Two map sheets, size 986 × 940 mm and 900 × 940 mm.

(Archive of the Czech Geological Survey – ref. # M2C38)



**Geological map of ČSSR** (Czechoslovak Socialist Republic). – **East, West.**

**Otto Fusan, Odolen Kodým, Alois Matějka et al.**  
Compiled by the Czech Geological Survey, Prague and Geological Institute of D. Štúr, Bratislava. Published by the Czech Geological Survey, Praha. Printed by Cartographic and Reproduction Institute, Praha 1967.  
Scale 1 : 500 000.  
Two map sheets, size 870 × 950 mm.

(Archive of the Czech Geological Survey – ref. # M2B210)