

Dear students,

Welcome to the beginning of the geological-geocaching adventure where you will learn about the geological past of the city of Brno. We will proceed systematically, from the oldest neoproterozoic ophiolites to the quaternary loess. Due to the versatility requirement of the game, the information for each period is roughly at the level of 2nd–3rd year of Bachelor's degree in geology.

Individual locations are a linked one to another, and you have to correctly answer all the questions to follow to the next location. The sequence of letters representing the correct answers (e.g.: abbcda - always small letters) is the password for the folder with the necessary files for the next part of the game in the secured archive.

At all stops (marked as **stages, a total of 13**), it is also your job to **take a photograph of your person with an outcrop** (or an element of interest) in the way that both the place and the person can be clearly identified (**requirement to get credits for the G5801 course!**).

For the field course, you will need a program to view **PDF files** (such as Adobe Reader) and a program to extract **ZIP files** using a password (such as **Total Commander** or other). Definitely try the ZIP-extraction application on your tablet/mobile by **extracting the Package 1 (the password is abcd)** before going to the field!

To search for coordinates, we highly recommend the **offline Mapy.cz application** available for Android, iOS, and Windows smartphones and tablets. You can copy the coordinates directly into the Mapy.cz search box to avoid errors. You will also need to measure the direction and dip angles of geological features (foliation, veins, ...); besides a classic compass, we recommend that you can also use some smartphone and tablet applications (such as Geocompass for Android - always be aware of where the north is, that is, what is the correct orientation of the mobile - width / length - towards the north).

Ideal for the field course are **groups of 2-6 people** or more (especially because of the need to take a photo). If you do not have the necessary technical equipment, we recommend making a team with colleagues who have it and know how to use the necessary software.

When moving in terrain, **do not underestimate the risk of falling or injury!** All stops are at places where you do not have to climb the rocks or do any risky actions! If in doubt, a safer version is always right.

The estimated time required to complete the entire route is approx. 10-12 hours.

We recommend visiting the first two stops at Špilberk in your free time in weekdays, and then spending a one full day on a weekend on the main part of the trip (stages 3-10); if you are tired after finishing the stage 10, you can complete the rest of the game (stages 11-13) later without having to come back.

We hope that you will enjoy the field exercises. In case of unclear understanding or problems, please contact me via e-mail cepirek@mail.muni.cz, or colleagues Šamánek and Výravský (samaneck.j@mail.muni.cz , vyravsky@mail.muni.cz) - we will try to reply as soon as possible.

The password **abcd** will open the Package 1.

Good luck!

J.Cempírek, J.Šamánek, and J.Výravský

P.S.: In mobile phones and tablets it is not very obvious, but the **password** must be used for **unpacking of both files from the ZIP** archive.

Therefore, if you want to open, for example, the file **Package 2 granitoids.zip**, you have to **unpack it first** (and, to do that, use the **password for the Package 1**, which is **abcd**).

After unpacking the new ZIP file, you can open it, and unpack the new PDF file (**Package 2 granitoids.pdf**) with further instructions using the new password you found out at the locality.