

# Dolný vrch – Alsó-hegy Report

from the years 2024 and 2025

Ctirad Piskač

Translation, compilation and conclusion by Luděk Vlk



## Dates

24th of July to 4th of August 2024

23rd of July to 3rd of August 2025

## Participants

Expedition leader: Piskač Ctirad

Participants:

2024: Závíška Mojmir, Dobeš Bob Pavel Dobeš Jan, Dobešová Lucie, Novotný Gumák Miloš, Novotná Jiřina, Vytiska Vlastislav, Kubálek Kostěj Pavel, Šmerák Petr, Mandel Martin, Mandelová Míla, Kutílek Kuťas Pavel, Kutílek Ondra, Mandel Tomáš, Piskač Ctirad

2025: Mandel Martin, Mandelová Míla, Kutílek Kuťas Pavel, Kutílek Ondra, Piskač Ctirad, Kubálek Pavel, Vytiska Vlastislav, Novotný Miloš, Gablíková Zuzana, Gablíková Lucie, Šmerák Petr, Piskač Jáchym, Mandel Tomáš, Stöhrová Martina,

Visitors: Stibrányi Gusto, Novotný Jiří

Support: Varhola Michal

Research approval: Aggtelek National Park Directorate ANPI/267-18/2023

Entry approval: ÉSZAKERDŐ Zrt. 53/2024

All participants were insured for speleological works. First day, there was organized safety training according to the directives by Czech Speleological Society.

### **Expedition tasks:**

- Carbon dioxide measurement in selected locations
- Gyorzs zs. – check of the bottom
- Check other locations on the surface and underground
- Survey at last year's Sudoku location
- Excursion into the Meteor abyss



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### **Conclusion of activities from explorations in 2024 and 2025**

#### **CO<sub>2</sub> monitoring**

The following locations were checked for real conditions and CO<sub>2</sub> concentrations. Highest values measured in Reményteljes szakadék (2.37 %), Lőfüle zs (0.95 %), Gyorzs zs. (2.47 %). The carbon dioxide concentration increase corresponds to abysses with narrow necks.

#### **Éves zsomboly**

2024: Locality check, excursion of Aggtelek NP ranges.

2025: Smoke tracer flow test performed – unsuccessful, but CO<sub>2</sub> measurement low 0.3%

# 5452/59 ÉVES - zomboly

loc: N 48.56711°, E 20.73997°

mapped by: Piskač C., Piskač J., Novotný J.

drawn by: Piskač C.

date: 2014, 2022

LDM, compass

The figure consists of two main maps. The upper map is a topographic map showing elevation contours and a water body. A vertical scale on the right indicates elevation in meters, ranging from 0 to -15. The map features several cross-sections: A-A' and B-B'. A red dashed line with points 1 through 8 is drawn across the water body. A light blue line represents the 'dno 2014 po rozšíření průřezu' (bottom 2014 after expansion of the section). Water level data is shown with arrows: a blue arrow for 2014, a purple arrow for 2022, and a red arrow for 2023. The lower map shows a plan view of the water body with cross-sections B-B' and C-C' marked. It displays two water level profiles: a cyan one for 2014 and a purple one for 2022. A north arrow is located at the bottom left of the lower map.

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### **Gyorsz zomboly**

2024: Six work events were carried out. The connection between the 1st and 2nd shafts was made more accessible, approximately 2 m<sup>3</sup> of sediments were moved from the connection and deposited at the bottom of the first shaft. Two large boulders were removed from the bottom of the second shaft, under which the shaft continues with a narrow profile (approximately 15 cm) further into the depth. Carbon dioxide levels were measured from safety reasons.

2025: We installed measuring point at the bottom for movement observation. Water collection from the walls for self-rinsing was not carried out due to the unevenness of the collection wall.

### **Gyors Alatt**

2024: No activity.

2025: The exposed fragment of the abyss shows no change, the bottom at a depth of 3.2 m from the upper edge is covered with leaves, hard, and shaded. The survey has been completed.

### **Sudoku**

2024: The karst depression found in 2024, whose mouth was cleaned (approximately 0.3 m<sup>3</sup>), does not show any spontaneous change.

2025: Check of the location. The survey has been completed.

## **Dongó zs.**

2024: No activity

2025: Discovery of an empty pocket the size of a person at a depth of approximately -5 m with a descending bottom, probably according to the sketch it is situated above the second shaft. Extension can be continued.

### *Sketch of the situation*



## **Sintér-barlang**

No activities in both years (2024 and 2025)

## **Nászút-barlang**

2024: There were 2 working visits, during which the data for the new 3D model of the abyss were measured with lidar. A new measurements were organized (working sketches).

2025: None activity.

## **Reményteljes-zsomboly**

2024: No activity.

2025: In the year 2025 was measurement check for carbon dioxide – see above.

Luděk Vlk

Speleological Club Barrandien 1-11

Czech speleological society