

ALSÓ HÉGY



2008 - 2009

Luděk Vlk and col.



Foto: Pavel Kutílek

ALSÓ-HEGY (DOLNÝ VRCH)

Report from exploration of the plateau organised by Speleological Club ZO 1-11 Barrandien, Czech speleological Society

ACKNOWLEDGEMENTS

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INTRODUCTION

Speleological exploration at Alsó Hégy was in accordance with authorisation of The North Hungarian Inspection for Environment (in the year 2008), and with authorisation No. I-291-2/2009 (for the year 2009) issued by the Aggteleki Nemzeti Park Igazgatóság. The works were focused on the area around the area Vecsembükki and Komjáti-jég zomboly (2008), and on the area around the border stone XII-48.9.

All works might be dividend to following items:

- Surface plateau exploration connected with karstic object identification – the GPS coordinates measurement as a source for the documentation.
- Cave location, description and identification update
- Finding new caves, potholes and depressions
- Carbon dioxide measurement from safety reasons
- New karstic objects documentation

SURFACE RECOGNITION WITH CAVES IDENTIFICATION AND DOCUMENTATION

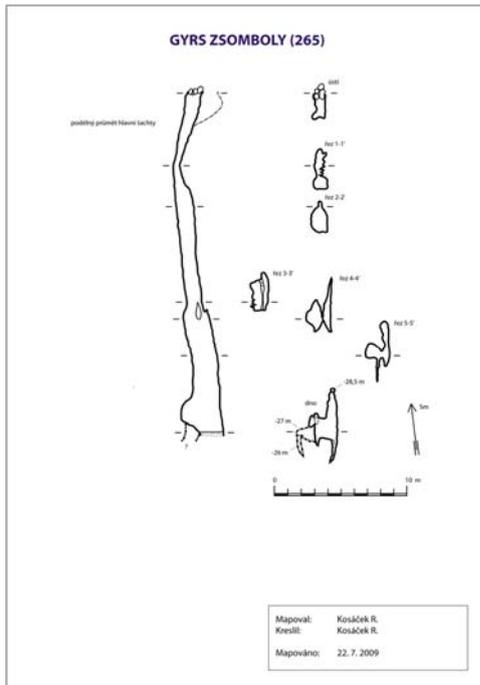
All works linked to previous explorations during last few years. Results given in this report compile data from the stays during the years 2008 and 2009 at the plateau. The objects that have been recognised as non-described, can be divided to:

- New caves/abysses - used abbreviation: NEW
- Unknown caves/abysses/depressions (unknown data in literature, has to be checked in co-operation with Aggteleki Némzeti Park Authority) – used abbreviation: CHECK
- Caves that have been know but there were updated information – used abbreviation CORRECTED

SPELEOLOGICAL OBJECTS - LOCATION, DESCRIPTION AND IDENTIFICATION

Gyrs zsemboly (Rychlá propast) (265) - **NEW**

The abbyss has been discovered by Speleological club ZO 1-11 Barrandicen (Czech speleological society) on 21. July 2009. The abbyss is not far from the **Komjáti-jég zsemboly**, 106 m to the north. Originally, the entry of the abbyss was based of small hole in small sink, between released stones. Because of safety reasons, there was a need to clean this entry so that the free stones do not fall into the shaft. The free stones were removed from the shaft entry and few biggest of them were wedged.



After this safeguard, there was taken in hand the abbyss exploration. The original entry was 1,5 x 0,5 m, nowadays the entry has dimensions of 2,5 x 1 m. The entry passage is developed on joint with 12° inclination from the vertical plain. The entry passage declines to the depth -7 m. From this point, the shaft declines nearly vertically to the bottom. 10 meters above the bottom, there is a rock bridge.

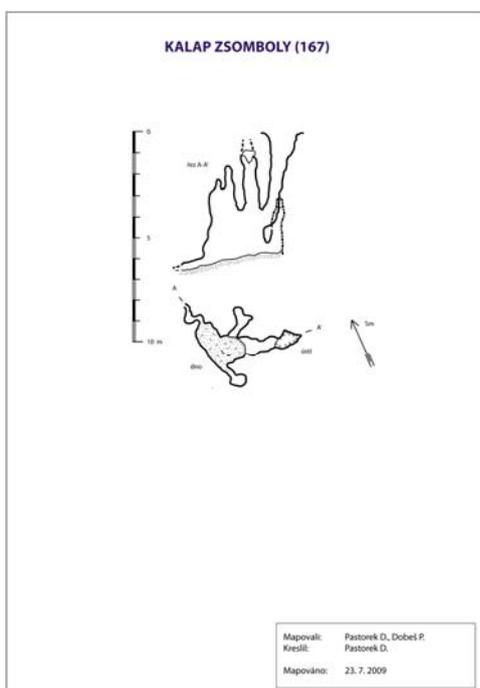
The bottom is irregular, with dimensions of 4 x 3 m. The bottom is covered by debris and loam. In the west part of the shaft, there is a distinct continuation to further parts. According to echo, we expect further shaft with a depth 30 meters at least. This part is going to be explored soon.

Actual depth is -28,5 m. The walls are plain with small pisolites. The shaft has got typical rocky groins. There are two tin joints at bottom with cave formations.

GPS:

Longitude: 20.740633
Latitude: 48.5667

Kalap zsemboly (Mogyoró zs., Oříšková) (167) - **CORRECTED**



The abbyss is located in the western part of geminated dolines, which are separated with rock groin, 415 meters to the east from **Fazekas zsemboly**. The abbyss has got typical triangle entry. The entry shaft declines vertically to a stone platform, where is located access hole to further part of the abbyss. The bottom is filled with loam. There is a meander which serves as a drain.

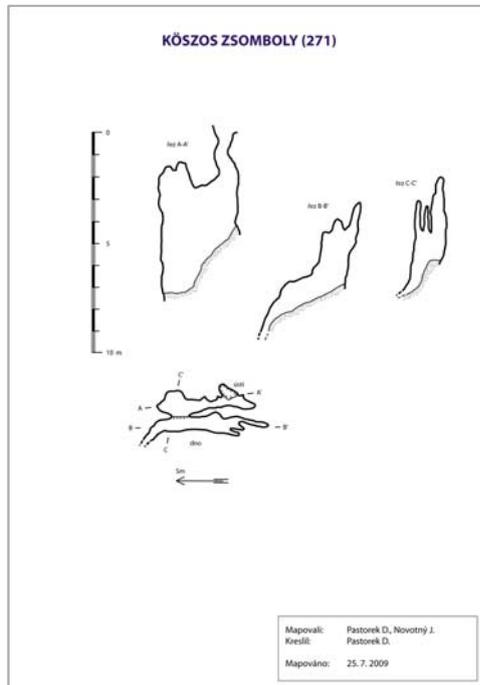
We can reach two small halls from the bottom. One is in direction 20°, the other in direction 150°. Above the access-hole, there is a chimney, which is blocked with stones. Total depth is 6 m.

Formerly the abbyss has not been located and nobody could find it. The reason for that is, the location was out of drawing – not far from **Komjáti-jég zsemboly**, near by the yellow marked path, in the north from the hill 515 m. In this area, there is not such abbyss.

GPS:

Longitude: 20.754917
Latitude: 48.568528

Köszos barlang (Společná) (271) - NEW



This abbyss has been discovered by Speleological club ZO 1-11 Barrandicen (Czech speleological society) on 21. July 2009. The abbyss is not far from the **Komjáti-jég zsomboly**, 93 ms to the north-west. The entry has oval shape with dimensions 60 x 30 cm.

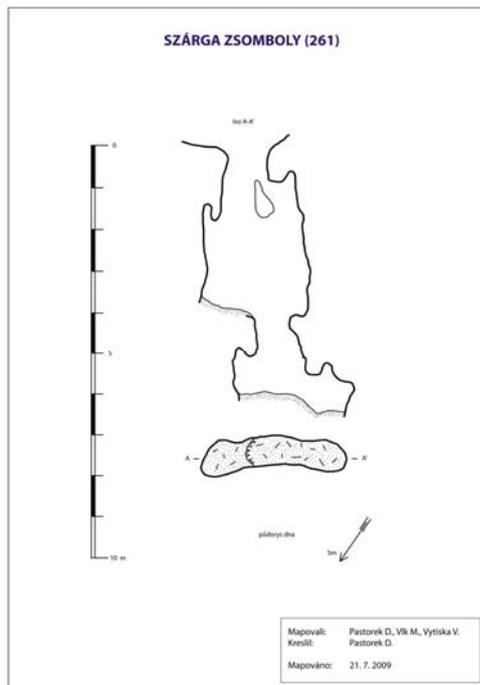
The abbyss has been developed on two parallel joints. First joint is orientated in direction 180° and declines to the depth -7 m. The other joint is orientated to 210° and its bottom declines to the total depth 9 m. Both joints are connected by 80 cm wide access hole. The sloping bottom is filled with loam.

GPS:

Longitude: 20.739722

Latitude: 48.567278

Sárga zsomboly (Žlutá propast) (261) - NEW



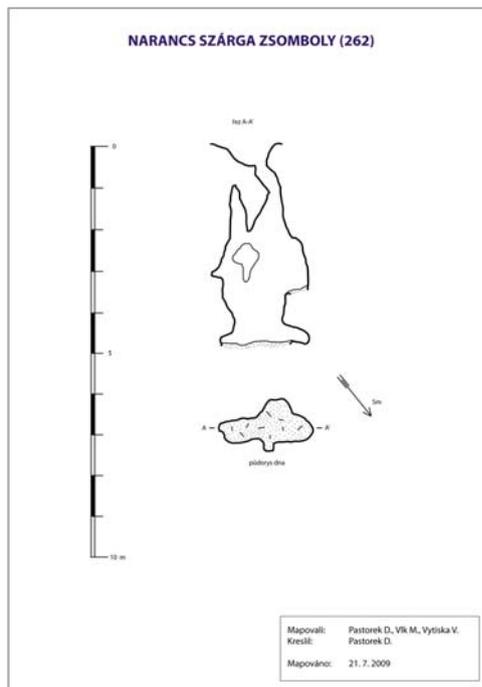
This abbyss has been discovered by Speleological club ZO 1-11 Barrandicen (Czech speleological society) on 21. July 2009. The abbyss is located 150 m from the border stone XII-49.8a to the south-west. The regular oval shape vertically leads into the main shaft which is divided into two parts in its upper section. There is a small step in the depth -3,5 m. From this place the shaft declines to the total depth -6,5 m. The bottom is filled with loam. The walls are plain with small sinter formations.

GPS:

Longitude: 20.762222

Latitude: 48.570917

Narancs sárga zomboly (Pomerančová propast) (262) - NEW



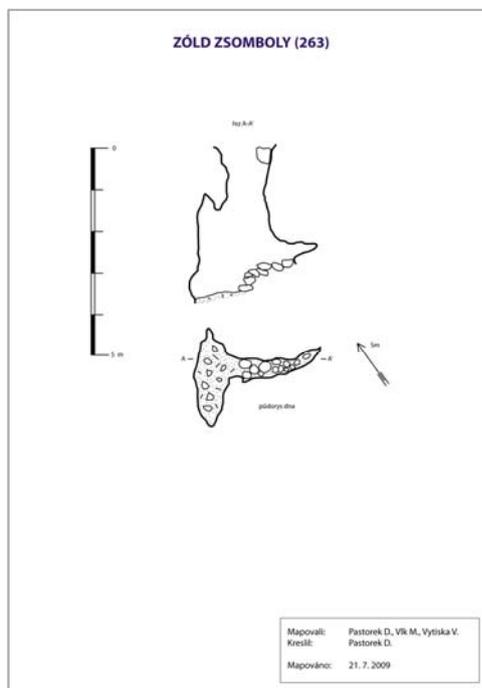
This abbyss has been discovered by Speleological club ZO 1-11 Barrandicen (Czech speleological society) on 21. July 2009. It is located at the same doline edge as the **Sárga zomboly**, above its south-east edge. Regular oval-shape entry declines angle-wise to the main roam. Here is the bottom. In the depth of 4,7 m. The entry access hole is tight. The bottom is covered by loam and stones, the abbyss has not got a decoration.

GPS:

Longitude: 20.763528

Latitude: 48.570944

Zöld zomboly (Zelená propast) (263) - NEW



This abbyss has been discovered by Speleological club ZO 1-11 Barrandicen (Czech speleological society) on 21. July 2009. It is located 100 m from the border stone XII-49.8a in the south-south-east direction, at the doline edge. The rectangle-shape entry was developed at the joint with of 54° direction. The cave bottom is in the depth of 3,5 m and it is filled with debris.

GPS:

Longitude: 20.764333

Latitude: 48.571167

Ékes lyuk (Klínková díra) (260) - **NEW**

This small cave is located at the doline edge at the south part of the plateau, where yellow marked path turns from the south to the west, not far from the forest path junction near a rocky well. The diamond-shaped entry leads to the total depth of 3,5 m. It is simple abbyss, the walls include small pisolites.

GPS:

Longitude: 20.755556

Latitude: 48.5645

Kút meleti szakadék (Propad U studny) (259) - **NEW**

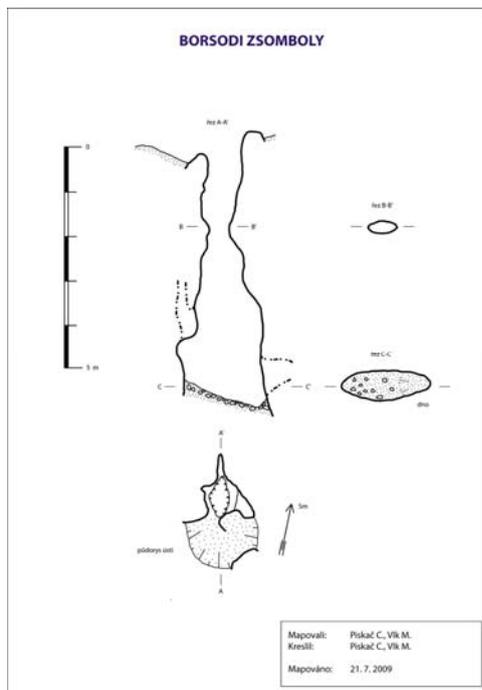
This small cave is located at the south part of the plateau, where yellow marked path turns from the south to the west, not far from the forest path junction near a rocky well. The dimensions are 15 x 10 m, the depth is 2,5 m.

GPS:

Longitude: 20.757361

Latitude: 48.562806

Borsodi zs. 542/75 - **CORRECTED**



This small abbyss is located in a lapis near a shallow sink 1 m deep. It is simple abbyss developed on a joint 348-168°. The bottom is filled with debris and loam. There is not presence of cave formations. The total depth is 6 m.

GPS:

Longitude: 20.768072039

Latitude: 48.570786816

Külkörte-zsomboly 5452/63 - **CORRECTED**

The abbyss is located 243 m to the south from the state border, 600 m south-east from the Komjáti Jég zsomboly. The senile entry of rectangle-shape has got dimensions 2 x 0.6 m.

The sloping entry part enters a space developed on a joint. This part has got step in a depth of 5 meters, 6 m wide. Here the shaft declines at the same joint and it is split by a small rocky bridge. The total depth is 13 m. The abbyss was prolonged recently – there are traces of blasts. The abbyss has got plan walls without cave formations.

GPS:

Longitude: 20.747056

Latitude: 48.568694

Vödör szakadék (Propad Kýbl) (281) - NEW

This sink is located 472 m from the border stone XII-49.8a in direction 147°. Rocky entry is developed at a joint 300/120°. This simple sink is 5 m long, 1.5 m wide and 2 m deep. The bottom is filled with loam.

GPS:

Longitude: 20.766917

Latitude: 48.568667

Szakadék 266 - NEW

This simple loamy sink with 4 m diameter is located in a circle negative elevation, 721 m from the border stone XII-49.8a in direction 238°. The depth is 1 m.

GPS:

Longitude: 20.755139

Latitude: 48.568833

Szakadék 267 - NEW

The sink is located 382 m from border stone XII-49.8a in direction 218°, at the western doline edge, in its eastern elongation. The simple sink has 6 m in diameter and is 2.5 m deep.

GPS:

Longitude: 20.76025

Latitude: 48.5695

Szakadék 268 - NEW

This loamy sink is located 275 m in direction 197° from the Röt-kúti Dreher zsomboly. The sink has 7 m in diameter in the northern part of the doline. The depth is 1 m.

GPS:

Longitude: 20.755833

Latitude: 48.568917

Kalapnál Barlang (086) - NEW

The cave is located in the same doline like Kalap zsomboly, 40 m to the east from it. It is small simple cave in lapis 2 m long.

GPS:

Longitude: 20.755417

Latitude: 48.568583

Fekete lyuk (Černá díra) (284) - NEW

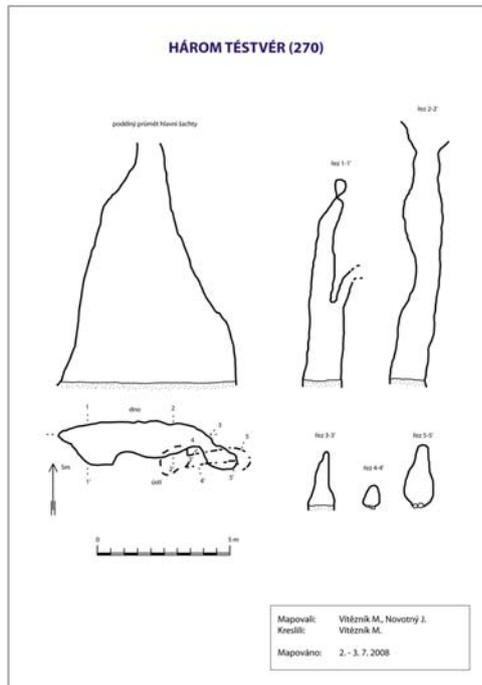
This small cave is located 292 m from the border stone XII-50. It is simple cave situated in lapies. The bottom is covered with a loam, the length is 3 m.

GPS:

Longitude: 20.771889

Latitude: 48.570667

Három testvér (Tři sestry) (268) – NEW (2008)



The abyss is located at the northern edge of the doline, which is lined with small rock outcrops. The doline is situated 36 m in direction of 148° from the landmark 48.8.

Primary rocky pit with dimensions of 3 × 3 m was filled with stones. After their removal, the entrance with oval shape and size of 1,2 × 0,8 m was opened. The entrance enlarges down along the fissure of east-west direction. The fissure pre-disposed the whole cave. The bottom (6 × 1,5 m) it filled with loamy sediments. In the southern part above the bottom, there is small chimney with speleothem decoration. The chimney terminates in the height of approx. 4 m above the bottom. There is a small side corridor under the entry. It leads 3 m in direction of 80° and terminates by collapsed blocks. This corridor probably leads to the main shaft in its half.

The walls are decorated with red-colored eroded pisoids. The abyss was discovered in 2008 by Barrandien Caving Club (Czech speleological society). The total depth is 9 m.

GPS:

Longitude: 20.753833

Latitude: 48.571167

Szakadék 272 - NEW

This sink was discovered in 2008 by Barrandien Caving Club (Czech speleological society). It is located in the northern part of a doline, 163 m from the Betlehem zomboly in direction 80°. It is simple joint between lapis with entry 30 x 30 cm with depth 1 m..

GPS:

Longitude: 20.733917

Latitude: 48.562972

Szakadék 273 - NEW

This loamy sink is located 70 m from **Napközis.barláng** in direction 301°. Its diameter is 2 m, depth is 0,5 m.

GPS:

Longitude: 20.729933

Latitude: 48.56365

Borostyán Szakadék (274) - NEW

This large rocky sing is located east from the doline with **Miki-Kuki** and **Sinkó** abbys. This object is open to the centre of the doline. The edge of the sink is separated from the doline by 2 m high mound. The sink has got rectangle shape with dimension 8 x 4 m. The sink bottom is deeper than the doline bottom. In the eastern part, there is a discontinuous joint filled with stones. The bottom is covered by stones, leaves and rotten wood.

It is a senile abbys with actual depth of 5 m.

GPS:

Longitude: 20.732367

Latitude: 48.5615

Szakadék 275 - NEW

This 4 m deep sink is located at the edge of a small shallow doline with a flat bottom, which is situated near a forest way leading from **Búbanát zomboly** through rocky neck to the south-east (210 m in direction 142° from the **Búbanát zomboly**). Near this doline, the forest way turns to the east.

The sink is open in direction to the doline. It has rectangle shape with dimensions 10 x 3 m.

GPS:

Longitude: 20.7297

Latitude: 48.560433

Szentháromság-hasadék (256) - CHECK

This sink is located in the northern part of a doline, which is situated in the site, where yellow marked-path turns from its main direction (South) to the north-east (374 m in direction 103° from the **Betlehem zomboly**). In the western part of this 4 m deep sink is small abyss that was prolonged.

GPS:

Longitude: 20.736357670

Latitude: 48.561839568

Szakadék 276 - NEW

This sink with 4 m diameter is located in the same doline like **Szentháromság-hasadék**, in its eastern part. The sink is 2 m deep and it is bounded small rocks.

GPS:

Longitude: 20.73775

Latitude: 48.561517

Szakadék 277 - NEW

This shallow sink with 10 m diameter is located 190 m in direction 53° from the **Ürgelyuk zomboly**. Its depth is 0,5 m.

GPS:

Longitude: 20.735233

Latitude: 48.561033

Ürgelyuk-zomboly (182) - CORRECTED

Actual description of the abyss is correct. The entry is located in the rocky edge.

GPS:

Longitude: 20.733231868

Latitude: 48.559870013

Szakadék 278 - NEW

This oval-shaped sink (2,5 x 2 m) is located 20 m from the country border, not far from **Pašerácká** cave. The western part of this sink has got small rocks. The depth is 1,3 m.

GPS:

Longitude: 20.73495

Latitude: 48.567683

Szakadék 279 - NEW

This large rocky sink is situated 121 m in direction 168° from the country border, where the frontier makes a corner. The dimensions are 25 x 15 m. The western part of the sink is bounded by rocks with 10 to 12 m height. The steep bottom is constructed from rocky blocks.

GPS:

Longitude: 20.735117

Latitude: 48.56555

Szakadék 282 - CORRECTED

This sink is based on an old dug hole with 4 m diameter and 2 m depth. It is located 56 m in direction 302° from the **Szakadék 279**. The funnel-shape squirms.

GPS:

Longitude: 20.734483

Latitude: 48.565817

Akancs Alat - NEW

This new sink in 2008 had newly sunken edges. It is based on a thin joint 4 m deep. This place is suitable for further exploration.

CONCLUSION

Even there were many exploration at the Alsó-Hégy plateau (at both sides of the country border) in the past, the area still offers possibilities for new discoveries. Actual works gave data, which enabled to get complete information about the plateau as a result. The task of our speleological group is to do this work with further exploration of the plateau.

The maps will be send in electronic form with Hungarian descriptions as soon as possible.

Luděk Vlk

Prague, 13.8.2009