

women laying out their guidelines as their frog-kicks take them further in through awesome arches and into this mystic realm lit only by the powerful beams of their HID torches. But there are also other caves in the world, less famous ones perhaps, but caves that are yet even more impressive, with shafts that keep on dropping into the abyss in seemingly endless cascades of deep pits.



CLOCKWISE FROM TOP LEFT: Base camp on Gagrinsky Ridge; Descending the cascading pits of the cave; Dropping into the pit of the sump

Author Tatyana Nemchenko before her dive in the sump





Pit dropping into the Kvitochka sump

## Fitness required

In such caves there are passages, which are completely filled with water. Cave divers dive into these submerged tunnels, which are called sumps. These adventurers are not only divers, but capable mountaineers who are able to climb both upwards and rappel downwards on ropes. These people are very fit, as they need to be able to bring with them into the cave cylinders and all other sorts of heavy equip-

## Where?

But do you know where the deepest cave in the world is located? Believe it or not,

it is actually very close to Europe. It is in Abkhazia, which was once a Soviet repub-

Voromya Cave

When Juri Kasjan, in 2004, declared that an expedition of the Ukrainian



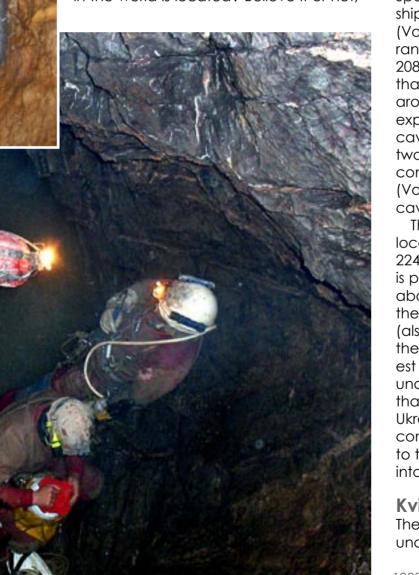
Speleological Association under his leadership had penetrated the cave of Krubera (Voronya)—which lies in the Gagrinsky range in the Caucasus—to the depth of 2080 meters, the world was awestruck. At that time, only about ten vertical caves around the world had actively been explored down to 1,500 meters. But this cave went to an astonishing depth of two kilometers! There are, at present, no comparisons or competition for Krubera (Voronya) cave's status as the deepest cave in the world.

The entrance of the deepest cave is located in mountains at an altitude of 2240 meters, and the bottom point (as it is presently known) is about 100 meters above sea level. It is not surprising that there are sumps, or flooded passages (also called 'siphons') at the bottom of these caves. These sumps are the deepest in the world in regard to their position under the surface. So, it is no wonder that ambitious cavers and divers from the Ukraine and Russia have begun a private competition in attempting to dive through to the lower sumps and penetrate further into the cave system.

Kvitochka: 1980m below ground The expedition detailed in this article, under the leadership of the same Juri

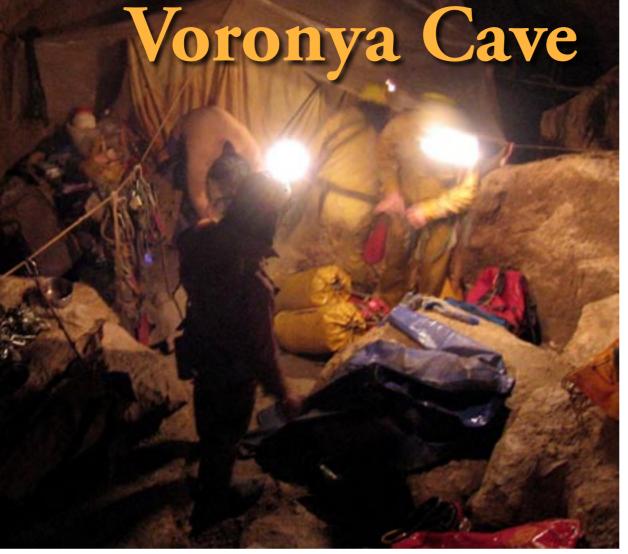
1980 meters below the ground, divers gather in Kvitochka sump

Ascent up from the pit of Kvitochka sump











TOP: Gennady Samokhin before the dive

BOTTOM: Preparing for the dive

Campina in the cave

Kasjan, took place October 2006. For a whole week, cave explorers moved all needed equipment to the bottom of the cave inxlusinf underground liv-

ina and divina exploration for two cave divers, Gennady Samokhin and Juri Kasjan, who dove through the sump, Kvitochka, at the depth of 1980 meters underground. This sump was 20 meters long with a depth of four meters.

time to evacuate With them, they carried cylinders and divina equipment for the next dive. They descended into the next deep pit cave passage that wasn't flooded. It seemed like there was just a little water here, so the caver divers followed it into unknown underground spaces.

## Flooding

The powerful roar

that announced the

beginning of the

underground flood

gave the cave explorers

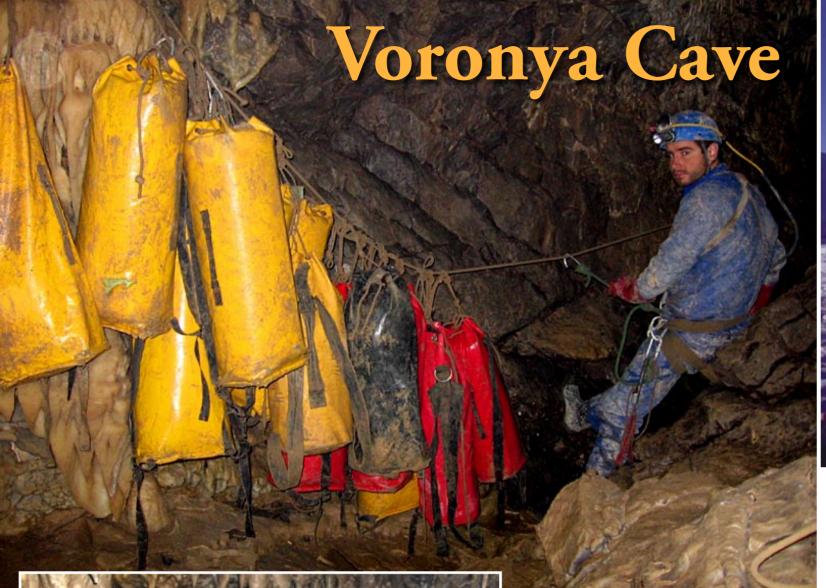
But then something unforeseen happened. Sudden warming of temperatures outside the cave led to fast melt-

> ing of snow on the surface, leading to underground streams becoming overfilled by water. Waterfalls started roaring in the cave.

Fortunately, the natural cataclysm began at night, when the cave explorers were resting in the under-

ground camp. The powerful roar that announced the beginning of the underground flood gave the cave explorers time to evacuate from their dangerous position. The water level rose rapidly in the bottom part of the cave, and further





Transportation of equipment

explorations were now out of the question.

This September, the team made another attempt, which was successful. They descended along air filled passages beyond the Kvitochka sump, found a new and unflooded passage and dived into a new sump at 17 meters depth and 40 meters in length, at the end of which they found a huge rock blocking the narrow sump. Now, the depth of the deepest cave penetration stands at 2158 meters.

What lies further ahead? "We shall look into how we can better forecast weather and foretell floods. Certainly, we'll continue our cave diving exploration because we like it, because this is very interesting to us and because we want to know more. What is there on the bottom of the world's deepest cave so very close to sea level?" said Juri Kasjan.



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Crawling through the toothy narrows

on the way to the bottom of the cave