

# Child fossil find in South Africa sheds light on enigmatic hominids

November 4 2021, by Griffin Shea

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Professor Lee Berger shows off a full-scale reproduction of the skull of a hominid named Leti.

Fossils found deep in a South African cave formed part of a hominid child's skull, apparently left on an alcove by fellow members of her

species 250,000 years ago, scientists said on Thursday.

The latest find adds to the riddle surrounding *Homo naledi*—a species of Stone Age hominids discovered less than a decade ago in a region called the Cradle of Humankind, named after the stunning fossils unearthed there.

"The real mystery about this child is why she was found where she was," said Lee Berger, the scientist who led the project.

"Something amazing was going on in this cave 200,000-300,000 years ago.

Although the researchers refer to the child as "her", they have not yet determined whether it was a boy or girl.

Researchers rarely find fossilised remains of children, because their bones are too thin and fragile to survive over aeons.

The child was probably only four to six years old when it died, with baby teeth intact and adult teeth starting to emerge.

Nearly 2,000 fossils have been found in the caves, which scientists have pieced together into partial skeletons of more than two dozen individuals.

The initial discovery revealed in 2015 helped complicate our understanding of human evolution, by showing that *Homo sapiens* probably lived alongside other species of hominin—the name for hominids that include anatomically modern man.

The newly found 28 skull fragments and six teeth were found even deeper in the cave complex, 12 metres (40 feet) away from the main

find, through tiny crevices that required the explorers to literally squeeze between the rocky walls.



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### **'Superman crawl'**

Parts of the passage are only 10 centimetres wide.

One section required explorers lie flat and pull themselves through with their hands stretched out ahead in a "Superman crawl", and then climb over a ridge dubbed the Dragon's Back, caver Mathabela Tsikoane told

AFP.

"For a person that doesn't cave, it's very, very difficult," he said. "You have to literally push yourself through."

Because of its distance from the other finds, the investigators nicknamed the child Leti, after a seTswana word "letimela" meaning "the lost one."

But for Homo naledi, the journey into the cave might have been much easier, as they were smaller than modern humans.

Their bodies also appeared well adapted to climbing, said Tebogo Makhubela, one of the scientists on the project.

"Homo naledi were just better climbers than us," he said. "What is difficult for us, might not necessarily have been difficult for them."



Gaining access to the Rising Star Cave System proved challenging for those scientists who were not experienced cavers.

These remains are the first of a child's skull. No other bones were found, not even a jawbone, and the skull showed no signs of damage—as from a carnivore's attack.

Declared a UNESCO World Heritage Site in 1999, the self-proclaimed Cradle of Humankind consists of a complex of limestone caves about 50 kilometres (30 miles) northwest of Johannesburg. The latest find was made about 30 metres (100 feet) below ground).

## **Death ritual?**

The researchers speculate that other members of the species may have set the skull there, for reasons that could be linked to rituals around the dead, Berger said.

He has proposed such a line of thinking for explaining the entire Homo naledi site, as a site for ritual burials.

If further evidence supports that theory, it would mark a dramatic rethinking about the human odyssey.



Scientists believe "something amazing was going on in this cave 200,000-300,000 years ago"



The latest fossils add to a skull and other remains of a species named *Homo naledi*—hominids that lived around 250,000 years ago.



A reconstruction of the skull of Leti, the first *Homo naledi* child whose remains



were found in the Rising Star cave in Johannesburg. Credit: Wits University

# Rising Star Cave System

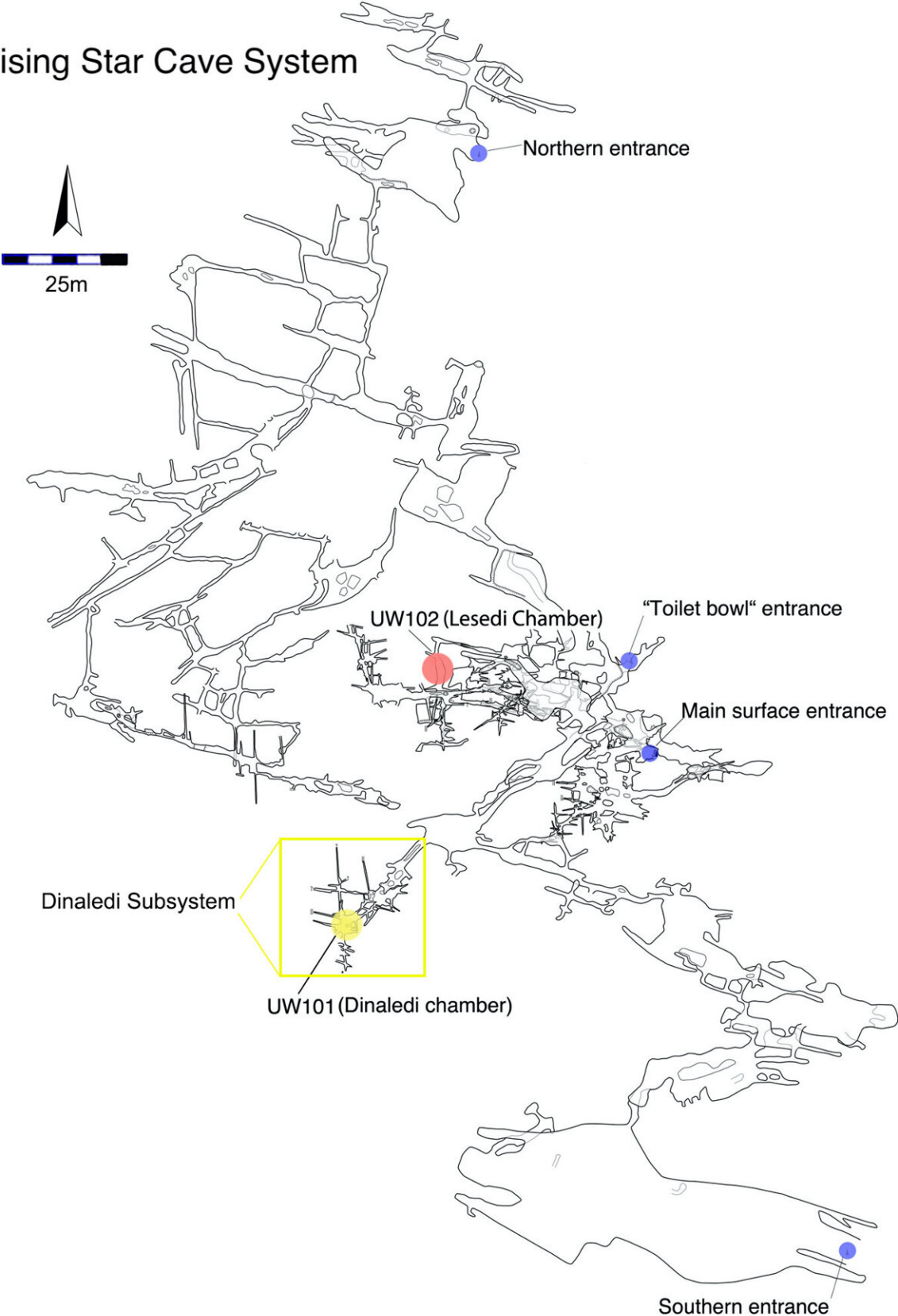


Diagram of the Rising Star cave system in Johannesburg. Credit: Wits University



Dr Marina Elliott exploring the Rising Star system in Johannesburg. Credit: Wits University

Until now, the earliest known hominid rituals associated with death date back to 50,000-100,000 years ago, he said.

But the latest find could push evidence for this behaviour—a token of grief and possibly belief—back to a quarter of a million years ago.

The discovery was published in two papers in the journal *PaleoAnthropology*, with 21 researchers from South Africa's University of the Witwatersrand and 13 other institutions around the world.

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