of years, their hard-shelled bodies built up hundreds of feet of limestone. After millions of years of burial under sediment, uplift and erosion, both the Carlsbad Caverns and Mammoth Caves began to form, taking many millions of years for water to erode in the limestone. Secular geologists have obtained these ancient dates from radiometric dating techniques, though the range of calculated dates actually varies quite widely. These geologists also assume that the rate of cave formation observed today is the same as it was when these caves originally formed. And since the effect of acidic water on limestone has been observed to be a slow process, geologists reason that large caves and caverns required millions of years to form.

## Biblical explanation

Most of the major limestone layers show evidence that they were laid down by large amounts of water. They contain large numbers of catastrophically buried fossils or are in strata that contain such fossils. It is probable that they formed during the global Flood of Noah's day (Genesis 6– 9), when lime-rich volcanic waters gushed from springs on the ocean floors. These water-soaked limestone layers were then buried rapidly by other layers of sediment, trapping considerable amounts of water within each limestone layer. Naturally, these layers began to harden over time; however, the water within each layer retarded this process and kept the limestone pliable. In the after-effects of the Flood, great tectonic activity would have uplifted the limestone layers, bringing them closer to the surface. Bent and twisted layers of rock are seen today, testifying of these movements. These movements not only created fractures in the partially hardened layers of limestone, but the extreme pressure also forced out much of the trapped water within these layers.

The water then began to flow along the horizontal and vertical channels, which had also been produced by the earth's tectonic activity.

It is likely that the tectonic activity of the earth also released hydrogen sulfide, combining with ground water to create sulfuric acid that could have swiftly eaten away tremendous amounts of limestone. In addition, as the floodwaters receded completely from the earth's surface, the groundwater level would have taken some time to reach a balanced level. The water flowing beneath the earth's surface would have been tainted with acid from the great amounts of decaying organic matter above after it seeped through the first few layers of soil. With such extreme amounts of acidic water, the caves would have been carved out in a short time.

Speleothems such as stalagmites and stalactites have also been found to form rapidly under the right conditions. It is observed that the caves and their formations found intropical rain forests form much more rapidly due to the increased rainfall.

## Consider it

Caves and their formations did not need many millions of years to form, they could have formed rapidly during the closing stages of, and after, the world-wide Flood of Noah's day. With the incredible amounts of water from the Flood, the increased carbon levels from all the decaying matter and the related tectonic activity, the global Flood described in Genesis 7–8 produced the right conditions for caves to form very quickly.



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