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Tree Have a "Heartbeat," Scientist Discover

by Brandon Prows, published on September 21, 2018



The world that we live on is home to a wide range of different kinds of life. Whether we are looking at humans, dogs, cats, all types of fish or even the microscopic bacteria that we cannot see, it would appear that there is a nearly infinite number of different living species for us to examine and explore. Amongst all the different types of life, there are plants. This includes everything from moss, to dandelions, to the tallest trees in Redwood National Park.

Trees are a fascinating species on Earth. Unlike other creatures, trees can live for thousands and thousands of years. The oldest tree on record lived for over five thousand years! Unbelievable! It was still three thousand years old when Rome was at its greatest point. It's amazing to think about and it's absolutely crazy how long trees can live. They are amongst the oldest living creatures on the entire planet.

We <u>know</u> that trees are alive because they use energy to create their own energy. Even though they <u>lack</u> the organs that creatures like mammals have, trees still have their own set of unique organs.

THE SECRET RHYTHM OF TREES

Have you ever wondered if it is possible for a tree to have a heartbeat? A <u>tree</u> may not have a heart, but the concept of it having its own beat and rhythm is not as far-fetched as you may think! According to a new <u>study</u>, trees have a special type of beat in their bodies similar to that of a heartbeat.

The study was headed by András Zlinszky, Bence Molnár and Anders S. Barfod from Hungary and Denmark. They used advanced monitoring techniques known as "terrestrial laser scanning" to survey the movement of twenty-two different types of trees. The investigation on trees revealed that while trees sleep at night they routinely have beats pulsate throughout their body. These pulses are the tree distributing <u>water</u> throughout its body, similar to the way a heart pumps blood through the body. This could change the way that we study and look at trees, as it had long been assumed that trees distribute water via osmosis. What an incredible find! The heart beats occur very slowly in between one another, with some of them taking hours to repeat. They phenomenon is slow and gentle that it cannot be seen with the naked human eye. Nature is amazing!

The study also revealed that it turns out that trees move a lot more than people initially thought. It turns out that numerous species of trees dropped their leaves down up to ten centimeters after the sun goes down. This is because the trees are sleeping and entering their own type of circadian rhythm known as "<u>circadian leaf</u> <u>movements</u>."

With as much as the study revealed to scientists, there is still much that we do not understand. For example, it is still unknown how the heartbeat and water pump fully work. More research is required in order to fully understand what is happening.

Who knows what else we'll discover about the world of trees and plant life? Recent <u>research</u> proved that plants and trees have the capability to feel pain and cry out in agony when being harmed. Up until then, we all thought that plants couldn't feel pain! It just goes to show how little we actually know about everything. It's all the more exciting to learn about how nature really works!

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