Strange Hoodoos – Living Growing Stones – An Incredible Geological Phenomenon

Earth is an amazing planet and our nature is full of wonders. This time we would like to focus our readers' attention on another amazing geological phenomenon, namely the so-called growing stones. It is difficult to imagine that stones can really grow, but these

stones seem to be alive!

The Romanian Trovants Museum
Natural Reserve is located in Valcea
County, close to the road connecting
Ramnicu Valcea and Targu Jiu, 8 km
from Horezu. Here in a small village
named Costesti, there are some
fascinating and mysterious stones
called trovants that are believed to be
alive.

There are sand or grass levels with trovants in many places of Romania,

but the ones in the region of Costesti are particularly impressive because of diversity of their shapes (mostly spherical or ellipsoidal) and dimensions.

The term "Trovant" is a term used in Romanian geology. Trovants represent a quite bizarre geological phenomenon, which consist of spherical shapes of cemented sand



due to some powerful seismic activity that occurred 6 million years ago. The earthquakes definitely contributed to the creation of the first trovants.

It is assumed that trovants consist of a stone core with an outer shell of sand. What makes these formations unique and mysterious is that they are reproducing after coming in contact with water. After heavy raining the stones grow, starting with 6-8 millimeters and ending with 6-10 meters. It's really remarkable!

The trovants from Costesti Museum are unique in the world because of one particularity – small trovants are growing on the surface of other bigger trovants. And they are the biggest trovants in the world. One of the strangest aspects of these stones is that although they vary in size from a couple of millimeters to even 10 meters, they are very similar, despite a natural law that states there are no such things as identical stones. In addition, just like the famous rocks in Death Valley, California, the trovants often move from one place to another place.

Complex aggregates of two or more trovants can often be found. There is no mineralogical difference between



these strange pseudoconcretions and the surrounding sands. Their cement is often carbonate-type and no distinct nucleus can be found inside them.

Many hypotheses have been produced on their origin. However, scientists believe that the stones increase in size due to high content of various mineral salts, which are under



their shell. When the surface becomes wet, these chemicals start spreading and put pressure on the sand, making the stone "grow".

Trovants were formed in the process that involved: gravitation force, seismic shocks, solution cohesion forces (particularly surface tension) and the adhesion strength between the sand grains and the liquid.

The great trovants found in the thick sand beds reflect great initial amounts of solutions in the bulk of the sandy sediment. The perfect spherical shapes which sometimes can be found suggest great magnitudes and durations of the paleoearthquakes.

A hypothesis on the seismic origin of the trovants is very well sustained by many laboratory experiments, of which the most relevant are those in which





sand spheres are obtained from wet sand on fine sieves subjected to mechanical shocks.

On Earth, trovants of different ages have been recorded in Russia, Siberian Platform, and Wyoming.

They are also in the Carpathians area (a mountain range in central Europe that extends from Slovakia and southern Poland southeastward through western Ukraine to northeastern Romania). In Romania they are particularly

numerous in the lower Sarmatian and are very diversely shaped.

However, despite their best efforts, scientists have failed to come up with a logical explanation *why the stones have extensions* that remind of roots. If they are cut, their sections have colored rings, just like trees.





The two essential conditions for the trovants formation are:

- existence of sand sediments and conservation of a vast porosity, despite the normal compression caused by the pressure
- presence of local concentrations "segregation" of specific minerals from secondary components dispersed in the host rock.

These stones behave almost like some kind of unknown inorganic life-form! We cannot deny that our planet is truly amazing.

Local residents have been aware of the stones unusual properties for more than 100 years, but they have never paid the trovants any special attention. The stones were often used as building materials and tombstones.

Today, the Trovants Museum in Romania is protected by UNESCO.





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