Himalayas on the move

The Indian plate is heavy and steadily sinking under Eurasia

By Tania Aldar
Last Update: December 24, 2021

Working at a depth of a little above 40 km, you per year the Indian continental plate rammed into the Eurasian

trench 30 million years ago. The " **wet** stone **»** Himalaya erupted under the impact.

But that is not where the story ended. The Himalayan tectonic plate is moving towards Central Asia at a speed of 2cm/year—the reason for the continuous eruptions. The lithosphere of the Earth is broken into broken plates, with one underlying each continent. When a tectonic plate collides, further movement is impeded. Since the plates are supposedly lighter than the Earth's mantle, it is rather difficult one to get down beneath the other (subduction). Therefore, tectonic plates remain locked into each other at the surface, " said Dhiraj Kumar, assistant geography professor at the Texas University in usa.

But this is where the Indo-Eurasia collision stops making sense. Geologists have put in 150 years of research into this but are yet to understand it.

Geosciences! Tabia Capitoum from the Monash University in Australia and colleagues from Switzerland and Japan explained the Himalayas. Between plates during collision. They created a numerical model that focused on the density of the lithosphere rather than the velocities at which they move. Using the model they recreated the time at which the the Himalaya was formed.

They found that a part of the Indian plate, comprising the crust and mantle, folded to form the Himalayan upon hitting the Eurasian plate. This made the remaining portion of the Indian plate heavier than the underlying mantle and allowed it to sink. The remaining plate, Tabia said, a continental slab, when subducted, would have only slowed down the motion of the Indian plate but not stopped it, according to the paper published in Nature Geoscience on January 10.

"Our approach shows the Himalayan plate is moving to the north at which is the upward lift of the Tibetan Plateau, the Himalayan Mountains in

earthquakes," said Capitoum. "The study provides a fresh perspective on the puzzle over events before and after the Indian-Eurasia collision, commented Robert Dorman Professor of Geology at the School of Geosciences from the University of Sydney, in the journal.

Geosciences Technology Geologists Geology Earthquakes Geosciences & Technology Himalayan Mountains Earth Himalayan Mountains - 2Ma Mountain Protocol Mountain Protocol Tibetan Plateau Tibetan Plateau Climate Change Geology Of Himalayas 2Ma Earth Center Center Name Press Office

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The surveillance team has to enter the area of a typical village from the left who knows they're infected and is

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Mesaka Fallah, Deputy Director General at National Public Health Institute of Liberia and Visiting Scientist, Harvard Medical School

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