

Chinese mosquitos on the Baltic Sea

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Golden coffin: An insect is trapped in Fushun amber. Credit: Bo Wang / Universität Bonn

The analysis of the roughly 3,000 pieces is still in its infant stage. But it is already evident that the results will be of major significance. "Amazingly often, we are finding—in addition to Asian forms—the same insect species in Fushun amber that we found in Baltic amber," explained Bonn paleontologist Professor Dr. Jes Rust.

The Baltic <u>amber</u> comes from the Baltic Sea region, which is almost



10,000 kilometers from Fushun. Sites rich in finds are, e.g., the coastal regions of Mecklenburg, Poland and Belarus. The pieces from the Baltic region are slightly younger than the ones from Fushun–according to estimates, about 40 to 50 million years. At that time, Europe and Asia were divided by the Strait of Turgay, a wide arm of the ocean. Many researchers had assumed until now that this body of saltwater prevented species migrations between the continents–or at least, made it much harder. "Consequently, the great similarity of the included insects has been a great surprise to us," said Rust. "We don't know yet how that fits together."

A neglected treasure

In the vicinity of the Northeast Chinese city of Fushun, there are large lignite deposits. Humans have been digging up this fuel from the ground for more than a century already. And in doing so, they also kept finding pieces of amber. Traditionally, the locals made jewelry from it. Particularly beautiful finds with interesting inclusions are highly sought after among collectors.

Until now, the inclusions had not been studied systematically. It was the Chinese <u>paleontologist</u> Dr. Bo Wang who finally recognized the scientific potential of Fushun amber. Wang, who is currently at the Bonn University on a research grant from the Alexander von Humboldt Foundation, used his good contacts with institutes and collectors to start systematically cataloguing the finds. An analysis is currently underway in collaboration with paleontologists from Europe and the USA.

And it is beginning to become clear how rich this deposit is. So far, the researchers have been able to identify arachnids and insects from more than 80 families—a snapshot of the past that provides a detailed view of what tiny animals populated East Asia 53 million years ago.



In addition, the Fushun deposit is filling in one of the blank spots on the map. With the exception of India, it constitutes the only significant site where amber has been found in Asia. Rust regrets that the open pit mining in Fushun will soon stop. "But despite that, the detailed analysis of the finds will probably keep us busy for quite some time."

Provided by University of Bonn

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