



Press Release

Humans and saber toothed tiger met at Schöningen 300.000 years ago

Fossil remains show man and big cat lived side by side in Germany

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Scientists of the Lower Saxony Heritage Authority and of the University of Tübingen excavating at the Schöningen open-cast coal mine in north-central Germany have discovered the remains of a saber-toothed cat preserved in a layer some 300,000 years old – the same stratum in which wooden spears were found, indicating that early humans also inhabited the area, which at that time was the bank of a shallow lake.

The discovery sheds new light on the relationship between early humans and beasts of prey. It is highly likely that humans were confronted by saber-toothed cats at the Schöningen lakeside. In that case, all the human could do was grab his up to 2.3m long spear and defend himself. In this context, the Schöningen spears must be regarded as weapons for defense as well as hunting – a vital tool for human survival in Europe 300,000 years ago.

Officials from the Lower Saxony heritage authority and archaeologists from the Universities of Tübingen and Leiden uncovered a first tooth of a young adult *homotherium latidens* in October 2012. Measuring more than a meter at the shoulder and weighing some 200kg, the saber-tooth was no pussycat. It had razor-sharp claws and deadly jaws with upper-jaw canines more than 10cm long.

The find shows that the saber-toothed cat died out later in central Europe than previously believed. Along with the sensational wooden spears, the same level has yielded bones and stone tools indicating that early humans – probably *homo heidelbergensis* – hunted horses and camped along a 100m stretch of the lakeside. The new finds demonstrate that a long time before anatomically modern humans, *homo sapiens sapiens* have reached Europe some 40,000 years ago, early man was able to defend himself against highly dangerous animals with his weapon technology. The results of the researchers' study have just been published in a report by the Lower Saxony heritage authority, the Niedersächsisches Landesamt für Denkmalpflege.

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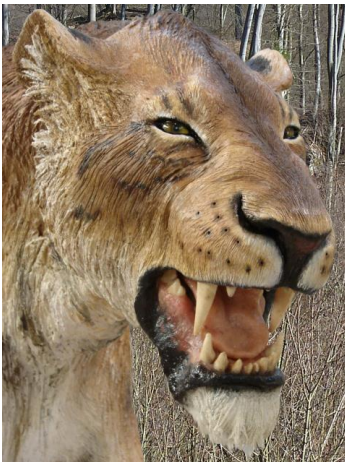
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All the better to eat you with: Reconstruction of the saber-toothed cat, with long canines used to hold on to prey. Image: Ramon López (www.quagga.cat)



The Schöningen coal mine was once the site of a shallow lake. Evidence of human habitation along with plant and animal remains preserved there have yielded astonishing details of life here 300,000 years ago. Photo: Niedersächsisches Landesamt für Denkmalpflege



No pussycat: This big cat had saber teeth more than 10cm in length. Photo: Niedersächsisches Landesamt für Denkmalpflege