

Lunadong fossils support theory of earlier dispersal of modern man

September 19 2014, by Lisa Shirota



Professor Christopher Bae searching for fossils in China.

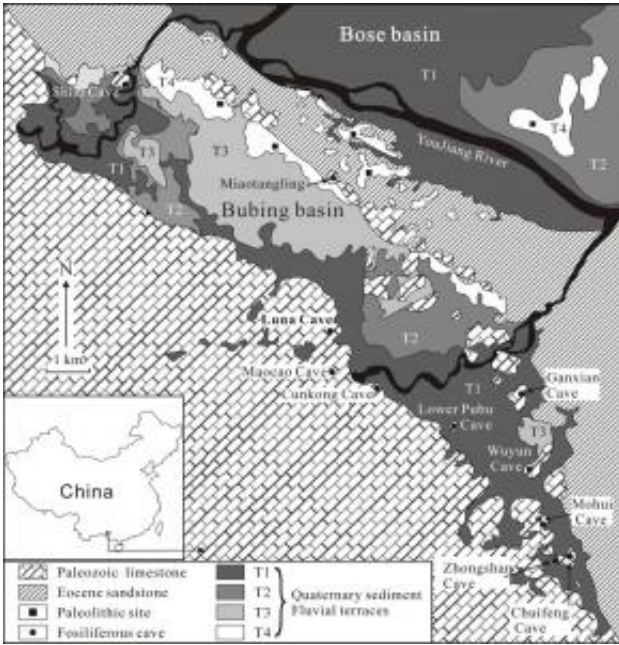
(Phys.org) —Scientists are now considering the possibility that the exodus of modern man from Africa may have been earlier than 60,000 years ago as traditionally thought. Christopher Bae, a paleoanthropologist at UH Mānoa, and Wei Wang of the Guangxi Museum of Nationalities in Nanning, China, led a team of researchers that discovered two teeth in Lunadong, a cave site located in Guangxi, southern China.

Found in stratified deposits dating between 70,000 and 126,000 years ago, a time period when China was traditionally thought to have been only occupied by more archaic human species, at least one of the [teeth](#)

can be comfortably assigned to modern Homo sapiens. Dating results of the Lunadong teeth, which include a right upper second molar and a left lower second molar, indicate that the molars may be as old as 126,000 years.

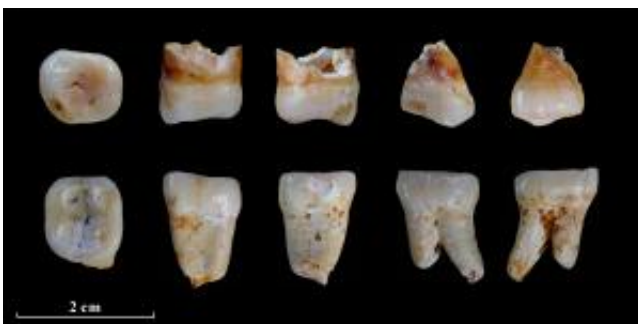
"The findings from the Lunadong study clearly indicate that certain aspects of the Out of Africa model need to be rethought. That is, that there was at least one other earlier Out of Africa migration event that predated 60,000 years ago. This paleoanthropological find, in addition to other recent studies from western and southern Asia, suggest that [modern humans](#) may have dispersed out of Africa in multiple waves rather than as one major single migration event 60,000 years ago as commonly thought," said Bae.

The Out of Africa theory suggests that modern humans migrated from Africa approximately 60,000 years ago following a southern route along the Arabian Peninsula to Southeast Asia. Recent fossil finds in eastern Asia, including the Lunadong teeth, support the theory of a more complicated dispersal model with migrations not only occurring earlier than originally believed, but also involving later dispersal patterns from Northwest Asia to Europe, and finally into Siberia then the Americas.



Map of Bubeing Basin with locations of important cave localities.

Bae has spent the past two decades developing a deeper understanding of the eastern Asian human evolutionary record. He has published extensively on a wide range of topics related to eastern Asian paleoanthropology, with many publications appearing in top tier scientific journals. He has also co-edited *Asian Paleoanthropology: From Africa to China and Beyond* (2010; Springer) and three special issues of the journal *Quaternary International* (2010, 2012, 2014).



Various views of the two human teeth from Lunadong: upper (LN0031); lower (LN0030).

Provided by University of Hawaii at Manoa

Citation: Lunadong fossils support theory of earlier dispersal of modern man (2014, September 19) retrieved 25 April 2024 from <https://phys.org/news/2014-09-lunadong-fossils-theory-earlier-dispersal.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.