
In Song Terus (Java, Indonesia): *Homo erectus* gave way to *Homo sapiens* some 80,000 years ago

A Song Terus (Java, Indonésie) : Homo erectus a cédé la place à Homo sapiens il y a environ 80 000 ans

Sofwan Noerwidi, Harry Widiyanto, Anne-Marie Moigne, Amélie Vialet, M. Mirza Ansyori, M. Ruly Fauzi, Tu Hua, Christophe Falguères, Anne-Marie Sémah, Truman Simanjuntak, José-María Bermúdez de Castro, María Martínón-Torres et François Sémah



Édition électronique

URL : <https://journals.openedition.org/bmsap/15213>

DOI : 10.4000/133p6

ISSN : 1777-5469

Éditeur

Société d'Anthropologie de Paris

Référence électronique

Sofwan Noerwidi, Harry Widiyanto, Anne-Marie Moigne, Amélie Vialet, M. Mirza Ansyori, M. Ruly Fauzi, Tu Hua, Christophe Falguères, Anne-Marie Sémah, Truman Simanjuntak, José-María Bermúdez de Castro, María Martínón-Torres et François Sémah, « In Song Terus (Java, Indonesia): *Homo erectus* gave way to *Homo sapiens* some 80,000 years ago », *Bulletins et mémoires de la Société d'Anthropologie de Paris* [En ligne], 37(S) | 2025, mis en ligne le 16 janvier 2025, consulté le 27 janvier 2025. URL : <http://journals.openedition.org/bmsap/15213> ; DOI : <https://doi.org/10.4000/133p6>

Ce document a été généré automatiquement le 27 janvier 2025.



Le texte seul est utilisable sous licence CC BY-NC-ND 4.0. Les autres éléments (illustrations, fichiers annexes importés) sont « Tous droits réservés », sauf mention contraire.

In Song Terus (Java, Indonesia): *Homo erectus* gave way to *Homo sapiens* some 80,000 years ago

*A Song Terus (Java, Indonésie) : Homo erectus a cédé la place à Homo sapiens
il y a environ 80 000 ans*

Sofwan Noerwidi, Harry Widiyanto, Anne-Marie Moigne, Amélie Vialet,
M. Mirza Ansyori, M. Ruly Fauzi, Tu Hua, Christophe Falguères, Anne-Marie
Sémah, Truman Simanjuntak, José-María Bermúdez de Castro, María
Martín-Torres et François Sémah

- 1 Whether *Homo sapiens* arrived in Southeast Asia before or after Marine Isotope Stage 5 (130-80 ka) is a hotly debated topic. In this context, the island of Java plays an important role due its rich fossil record spanning 1.8 Ma. Here we present two deciduous teeth discovered in the Song Terus site: a lower left deciduous first molar (ST06) dated back from older than 80 ka and an upper left deciduous first molar (ST04) which is younger than 60 ka. ST04 is compared with Lower to Upper Pleistocene teeth from Sangiran (Java), Tighennif (North Africa), Atapuerca-Gran Dolina (Spain), the Arago cave (France), Neanderthals and *H. sapiens*. The comparison sample for ST06 comprises Barranco León and Atapuerca-Gran Dolina (Spain), the Arago cave (France), Neanderthals and *H. sapiens*. Morphological and metrical comparative analysis of the external and internal dental characters were carried out. To reach the inner dental features, the specimens were scanned using a high-resolution micro-CT by the Scanco Medical Micro-CT80 system set at the CENIEH, Burgos, Spain and the software Avizo 7.0 was used to achieve the enamel and the dentine segmentation. Results show that ST04 is closed to *H. sapiens* while ST06 belongs to *H. erectus* sensu lato. It confirms that *H. erectus* survived at least at the beginning of the Late Pleistocene, during the last interglacial period (MIS 5) and that *H. sapiens* was present in Java at least around 60 ka. It's interesting to note that in this narrow chronological interval, two other species (i.e.

H. floresiensis and *H. luzonensis*) lived on the surrounding islands and that a faunal turn-over co-occurred.

AUTEURS

SOFWAN NOERWIDI

Research Centre for Archaeometry, National Research and Innovation Agency, Jakarta, Indonesia ; sofwannoerwidi[at]gmail.com

HARRY WIDIANTO

Research Centre for Archaeometry, National Research and Innovation Agency, Jakarta, Indonesia

ANNE-MARIE MOIGNE

UMR 7194 – Histoire Naturelle de l’Homme Préhistorique (HNHP), Muséum National d’Histoire Naturelle, CNRS, UPVD, Association Sorbonne Universités, Musée de l’Homme, Paris, France

AMÉLIE VIALET

UMR 7194 – Histoire Naturelle de l’Homme Préhistorique (HNHP), Muséum National d’Histoire Naturelle, CNRS, UPVD, Association Sorbonne Universités, Musée de l’Homme, Paris, France

M. MIRZA ANSYORI

Satya Wacana Christian Universitas, Salatiga, Indonesia

M. RULY FAUZI

Research Centre for Archaeometry, National Research and Innovation Agency, Jakarta, Indonesia

TU HUA

China University of Geosciences, Wuhan, People Republic of China

CHRISTOPHE FALGUÈRES

UMR 7194 – Histoire Naturelle de l’Homme Préhistorique (HNHP), Muséum National d’Histoire Naturelle, CNRS, UPVD, Association Sorbonne Universités, Musée de l’Homme, Paris, France

ANNE-MARIE SÉMAH

UMR 7194 – Histoire Naturelle de l’Homme Préhistorique (HNHP), Muséum National d’Histoire Naturelle, CNRS, UPVD, Association Sorbonne Universités, Musée de l’Homme, Paris, France

TRUMAN SIMANJUNTAK

Center for Prehistory and Austronesian Studies, Jakarta, Indonesia

JOSÉ-MARÍA BERMÚDEZ DE CASTRO

Centro Nacional de Investigacion sobre la Evolucion Humana (CENIEH), Burgos, Spain

MARÍA MARTINÓN-TORRES

Centro Nacional de Investigacion sobre la Evolucion Humana (CENIEH), Burgos, Spain ;
Anthropology Department, University College London, London, UK

FRANÇOIS SÉMAH

UMR 7194 – Histoire Naturelle de l’Homme Préhistorique (HNHP), Muséum National d’Histoire
Naturelle, CNRS, UPVD, Association Sorbonne Universités, Musée de l’Homme, Paris, France ;
Satya Wacana Christian Universitas, Salatiga, Indonesia