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Replacement of Archaic humans by Modern humans in relation to climate change

Minoru YONEDA¹, Ayako Abe-Ouchi^{2*}, Takashi Oguchi³, Hodaka Kawahata², Yusuke Yokoyama²

¹The University Museum, the University of Tokyo, ²Atmosphere and Ocean Research Institute, the Universit of Tokyo, ³Center for Spatial Information Science, the University of Tokyo

Homo sapiens is the only survived hominid living today, while several kinds of archaic humans including Neanderthals became extinct in the late Pleistocene. Drastic climate changes toward colder and dryer conditions is thought to be a crucial cause of their extinction but the biological and cultural difference between archaic and modern humans which was significance for their survival and extinction is not understand well. In this talk, we will review a series of viewing point regarding on the difference between archaic and modern humans and the impact of climate change, in order to extract the geoscientific information which is required for testing these archaeological scenarios. Any comments and suggestion from geoscientists are very welcome.

Keywords: human evolution, Neanderthals, Homo sapiens, marine isotope stage 3, Pleistocene, Paleolithic industry