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The effect of climate change on the distributions of Neanderthal and Modern Humans.

Minoru YONEDA^{1*}, Ayako Abe-Ouchi², Takashi Oguchi³, Yusuke Yokoyama²

¹GSFS, University of Tokyo, ²AORI, University of Tokyo, ³CSIS, University of Tokyo

The effect of climate change on the distributions of Neanderthal and Modern Humans has been investigated in the last decade, in addition to archaeological and anthropological evidences. However, it is still not enough to evaluate the effect of variability of climate in time and space for the evolution of both human species. Hence, we have just launched a new interdisciplinary project of the evolution of Neanderthal and Modern human, by using (1) the reconstruction of palaeoclimatic map by using a global circulation model, (2) long-time series of palaeoenvironmental proxy, (3) the reevaluation of chronological data on archaeological and anthropological evidences, and (4) the integration of these data on a GIS. We will discuss the general plan and some preliminary results obtained by this project which is a part of Grant-in-Aid for Scientific Research on Innovative Areas 2010-2014: "Replacement of Neanderthals by modern Humans: Testing Evolutionary Models of Learning".

Keywords: Stage 3, Neanderthal, Homo sapiens, human evolution, palaeoclimate, palaeoenvironment