
Approaching spatio-temporal analysis to explore mechanisms about the Late Mesolithic and Neolithic spread in the central and western Mediterranean

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Résumé

The present proposal is based on spatio-temporal analysis considering radiocarbon dates and distances (distance-age modelling) from the Central and Western Mediterranean. The experiments conducted allow us to consider a comparative view taking into account both Late Mesolithic and Early Neolithic contexts in order to, a) compare the rhythm of spread, b) and to explore several hypotheses regarding its mechanisms. To do this we have compiled two data frames from both Late Mesolithic and Early Neolithic radiocarbon dates with spatial points to create a distance matrix. After that we have applied a spatial analysis of aggregate radiocarbon dates that explore spatial heterogeneity in the SPDs and a permutation-based statistical significance framework. The results allow us to comment the spatial density estimates of radiocarbon dates for discussing spatio-temporal behaviour relating the mechanisms (demic and/or cultural) of the Late Mesolithic and the Neolithic spread in the wide region considered.

Mots-Clés: Mesolithic, Neolithic, Spatio, temporal analysis, 14C, central and western mediterranean

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