Land, rain and sweat: Building a database of what we need for building a temporally dynamic and a spatially-explicit agent-based model of Neolithic occupation in Languedoc-Roussillon, France

Mehdi Saqalli, Marie-Alexandrine Sicre, Odile Peyron, Pierre Sabatier, Nathalie Combourieu-Nebout, Laurent Dezileau, Matthieu Ghilardi, Catherine Kuzucuoglu, Maria-Angela Bassetti, Boris Vannière, et al.

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Building a dynamic and spatially-explicit model is an interesting way for combining altogether:

- At the operational scale, meaning the Neolithic family level, i.e. one hectare and one season
- All the biophysical and socio-economic constraints and assets this family face
- Along the period and the site we considered, meaning the Languedoc Roussillon during the Neolithic era

⇒ for such a model, we need to collect accurate data, meaning:
⇒ Precise enough, exhaustive both temporally and spatially
⇒ Relevant, meaning having a defined impact on simulated dynamics

A long-term project to build within the PALEOMEX research group

Among all data and groups of data needed for building a socially-defined multi-agent model, few are available or not-so-hard to prepare:

- The white numbers (from 1 to 15) are the data or metadata available in the PALEOMEX team or that can be constructed by one PALEOMEX member;
- The black numbers (from 16 to 36) are the ones not available for now. Their constructions need the building of a consensus agreement of several working hypotheses on their values and organizations

References:
4. 2014. A system of activities consistent with the family rationality and constrained by the manpower availability
A social functioning rules

- Rules from archaeology
- Rules from socio-anthropology

- History of the house remains
- Ahumadas spatial distribution & size
- Ahumadas, inhumations, food redistribution, manpower allocation
- Family organization (nuclear, enlarged, communitarian)

- Social functioning rules

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