

Disentangling scattered charcoal assemblages for palimpsest dissection: Spatial analyses from El Salt Stratigraphic Unit Xb (Eastern Iberia)

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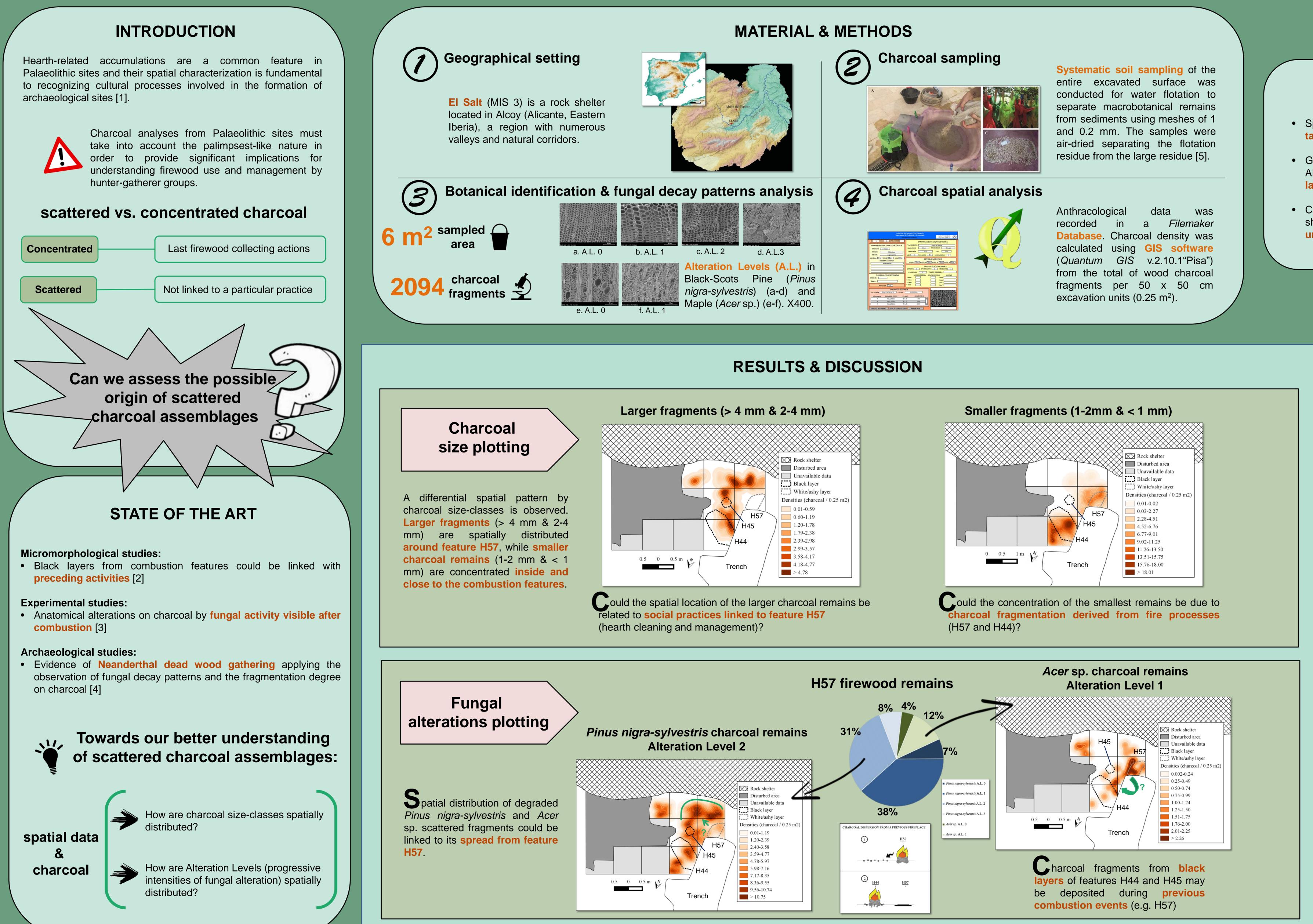
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Disentangling scattered charcoal assemblages for palimpsest dissection: Spatial analyses from El Salt Stratigraphic Unit Xb (Eastern Iberia)

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• Spatial analysis is a promising tool for charcoal density and taxa distribution visualization.

• GIS applied on charcoal distribution by size-classes and fungal Alteration Levels can provide further insight into the nature of the last firewood used in combustion features.

• Charcoal assemblages from black layers and scattered contexts should be spatially analyzed to obtain a more holistic understanding of palimpsest deposits.

REFERENCES

[1] VAQUERO, M., PASTÓ, I., 2001. The definition of spatial units in Middle Palaeolithic sites: the hearth-related assemblages. Journal of Archaeological Science 28, 1209-1220.

[2] MALLOL, C., HERNÁNDEZ, C.M., CABANES, D., SISTIAGA, A., MACHADO, J., RODRÍGUEZ, Á., PÉREZ, L., GALVÁN, B., 2013. The black layer of Middle Palaeolithic Interpretation combustion structures. and archaeostratigraphic implications. Journal of Archaeological Science 40, 2515-2537.

[3] HENRY, A., THÉRY-PARISOT, I., 2014. From Evenk campfires to prehistoric hearths: charcoal analysis as a tool for identifying the use of rotten wood as fuel. Journal of Archaeological Science 52, 321-336.

[4] VIDAL-MATUTANO, P., HENRY, A., THÉRY-PARISOT, I. Dead wood gathering among Neanderthal groups: charcoal evidence from Abric del Pastor and El Salt (Eastern Iberia), submitted for publication.

[5] VIDAL-MATUTANO, P., HERNÁNDEZ, C.M., GALVÁN, B., MALLOL, C., 2015. Neanderthal firewood management: evidence from Stratigraphic Unit IV of Abric del Pastor (Eastern Iberia). Quaternary Science Reviews 111, 81-93.

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