1. CONCLUSIONS

Monospecific faunal assemblages largely dominated by ungulates that exhibit catastrophic mortality profiles, seasonal mortality, systematic exploitation of carcasses, and transport of elements of high utility are common features used to infer communal hunting. These characteristics are fully consistent with those observed in Gran Dolina TD10.2 “bison bone bed” level (15 cm thick), suggesting that cognitive, social and technological capabilities required for successful communal hunting was fully developed in the pre-Neanderthal populations of Atapuerca as early as 400 ky.

The active cooperation of many individuals in a previously conceived plan, not only for the hunt but for processing, transporting, and meat sharing are fully linked with modern human like behavioral complexity and plasticity.

The deep knowledge of environments, prey behavior, and seasonal prey biological cycles necessary to perform communal kills are strongly linked with the development of cognitive tools such as articulated language.

Gran Dolina TD10.2 and the humans from Sima de los Huesos are penecontemporaneous. In this sense, it is plausible to suggest that TD10.2 informs us about the capabilities of the hominins from the Sima site.

2. INTRODUCTION

Zooarcheological research informs us about not only subsistence, but also social behavior in the past. The social organization of hunting parties, the type of predation (number and rate of animal slaughtered), and the technology used (tactics and tools) must be taken into account to identify and classify the hunting methods in prehistory. In this sense, communal hunting is a technique that implies the participation of several people, including those that usually don’t participate in hunting parties as women, children and elders, for killing several prey animals in a single event.

3. METHODS

We have taken into account taphonomic modifications in bone surfaces (Cut-marks, Percussion marks & Tooth marks), taxonomic diversity rates (Shannon Evenness Index & Simpson Index), mortality profiles (Modified Triangular Graphs), seasonality, (Tooth Eruption, Wear & Microwear) statistical approaches to density mediated attrition (Mineral Density), skeletal composition (%MAU) and economic utility (MGLS, FSI, Marrow, UMI, MDI).

4. HYPOTHESES

1) Yes! Neanderthals and other Middle Palaeolithic hominins hunted. And they hunted in a wide variety of circumstances through a wide variety of tactics and techniques including the communal hunt.

2) Pre-Neanderthals hunted too, but did they use complex techniques to do so?

5. MATERIALS

25,000 SPECIMENS

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