MONUMENTALITY, VISIBILITY AND ROUTES CONTROL IN SOUTHEASTERN IBERIAN MEGALITHIC SITES

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Abstract

Between the end of the V Millennium B.C. and the end of III Millennium B.C., megalithic tombs expand over the Southeastern Iberian Peninsula but their positions, distributions, associations, sizes, shapes and contents are very different according not only their chronology but mainly their ideological function. A new interpretation about the Tabernas Corridor (Almeria) megalithic graves situation analysis is proposed here before discussing the differences among the Los Millares tombs (Santa Fe de Mondújar, Almería) in terms of their location and grave goods as known from the old excavations by L. Siret and A.Almagro-A.Arribas. Both subjects are included in a wider study of the Late Prehistoric funerary ritual phenomenology in the Southeastern Iberian Peninsula and its relation to the social organization through different methodological strategies.

Introduction

Although the first simple individual megalithic tombs in Southeastern Iberian Peninsula (fig. 1) are supposed to be dated to the end of the V Millennium B.C. (Guilaine 1996), graves reached their greatest architectonic development as true tholoi, or tombs covered by a false vault, and their widest territorial expansion between 3300 and 2000 B.C., during the local Chalcolithic period. At the end of the IV Millennium B.C. economic changes, that have begun in Late Neolithic (from 4000 B.C.), became consolidated. A temporary halt in the slow environmental changes towards a greater aridity (Carrión et al. 2003) was accompanied by a fully sedentary way of life, mixed farming (including cattle traction, emphasis on certain cereal species with a higher yield, use of damp places to cultivate pulses and the beginning of olive tree and craft development (including exploitation) metallurgical techniques and the use of metal tools in other productive activities as flint knapping and textile industries) (Molina and Cámara 2005).

A strong relationship between these changes and the beginning of social hierarchisation has been suggested. This increase in wealth differences can derive from unequal accumulation of livestock ownership and dependent labor force control (Afonso and Cámara 2006). Data suggesting differential goods consumption are available not only from settlements as Los Millares (meat and prestige goods consumption) (Molina and Cámara 2005; Navas *et al.* 2008), but also from tombs where size and grave goods are not correlated to the number of burials (Chapman 1991; Aranda and Sánchez 2005; Molina and Cámara 2005, 2010; Afonso *et al.* in press). These arguments can be linked to the evidence for violence/defense (fortifications, arrowheads), to the definition of a capital status to a site (attending to public buildings such as storage or ritual areas, design and changes in residential units) (Molina and Cámara 2005; Esquivel and Navas 2005, 2007; Castro *et al.* 2010) and to interest in controlling the entire political territory in a ritual way (megaliths) or, at least from 2500 B.C. onwards, in a military way (hill forts) (Cámara 2001; Molina and Cámara 2010).

It is in this context that we shall study the use of tombs in terms of territorial control, definition of political centers and wealth exhibition and masking. The definition of routes and boundaries by megaliths will combine concentration (in the valleys and near major villages) and dispersal (towards the mountains), possible addition of new tombs and their interdependence, display and concealment. All the locations will be explored as to whether they express social competition and an unequal society in different ways. Control over territory and resources will be exerted only in an ideal way in favor of all the community because it will provide more benefits to a section of society, as could be also seen in differences in grave goods and graves.



Fig. 1. Southeastern Iberian Peninsula - location of Los Millares (A) and Pasillo de Tabernas (B)

The ideological role of the graves as monuments

Among the many ways ideology is materialized (DeMarrais *et al.* 1996), monuments stand out for their permanence and their capacity to display power during ceremonies and beyond (Bard 1992:8; Naso 2007:145;

Smith 2007:165; Fahlander and Oestigaard 2008:9; Scarre 2008:15), although determining what a "monument" is, can sometimes be a problem. It has been pointed out, that monuments are public structures designed and constructed, in terms of scale and detail, to produce a strong impact on the environment (Moore 1996:92; Johansen 2004:319; Cunningham 2007:26; Driessen 2007:73; Scarre 2007:34; Thompson 2009), but sometimes this impact is not very well marked (Ambridge 2007). The main debate evidently concerns the definition of the public character (Hamilton and Spicer 2005; DeMarrais 2007) when it is assumed solely by ideological steering through emphasis on its commemorative aspects (Bloch 2000:50) because administrative uses are seldom mentioned (Khattri 2008:107; Daneels 2010:228; Peebles and Peterson 2010:242).

Perhaps the best way to overcome these problems is to attend to the monumental character¹ of the elements rather than monuments as perfectly defined elements (Cámara et al. 2010a:135). What happens is, that an ideological message is anchored to a more or less permanent medium that serves as a framework within which, or from which, ritual activities are carried out (Grima 2007:35). These activities are present in the construction of an architectonic element, the erection of a sculpture, the manufacture of a tool or the inscription/writing of a more or less encoded message. point From that onwards. from the construction/erection/manufacture/inscription and after the accompanying consecration, successive ceremonies become integrated and different ways of materialization are articulated. In this respect, even within the so-called natural monuments (Driessen 2007:73, 92; Khattri 2008:105-106; Jerpåsen 2009:138), it is necessary to differentiate between those that configure an inner space, especially those that even form a three-dimensional space with volume, and those other ones that only offer an image, a sculptural dimension, although the outer part of the monument, its façade with its sculptural dimension, is very often one of the most important features, especially in relation to visibility. In any case, a specific ritual, or a part of it, can be performed outside the architectonic feature or far from the referred monument because ritual is mainly composed by "activities" (Insoll 2007:88).

Ideology uses the past in order to justify social order, but it also offers a future project (a perpetuation of the present or a return to the past), and of course, both of them (past and future) are defined from the present, establishing which is possible and which is good. For this reason certain monuments remain for a long time in their placement and are used by very different societies (Williams 1997; Mullin 2001; García 2005, 2011; Thäte 2007; Wickholm 2008; Bueno *et al.* 2010). These special features were used for the perpetuation of social order, by asserting social structural links to the remote past according to memory transmission (Bradley 2002; Joyce 2003; Holtorf and Williams 2006; Yoffee 2007; Harris 2009; Sayer 2010).

Thus, it is probably safe to say that monuments are defined by their public dimension, although access can be restricted and common people have been very often implied only as a labour force in the building process. Actually, only a section of the group can get real benefits (and not ideal ones) from the management and use of this type of public features (especially buildings with an inner space). In this sense, other characteristics are secondary ones, because of their special character among the rest of the similar items (buildings, sculptures, books, etc.), their size or their situation. Their public dimension and the performance of specific ideological activities in or around them, including object deposition and people circulation, must be considered as the basic criterion.

The immovable architectonic elements, either built or dug-into, have two key characteristics. First, they can be containers/settings for all other types of ideological formalization (ceremonies, movable and written items). Second, their outer shape can have an important visual impact in terms of contrast with the surroundings/context, prominence, clarity of form and sufficient mass for emphasizing presence (Johansen 2004:319), depending on different variables: permanence (by material type, construction method and duration of use/maintenance), scale, centrality, ubiquity and visibility (exhibited or hidden as in the case of caves) (Johansen 2004:323-326; Cunningham, 2007:23; Driessen, 2007:74).

As authors refer to the permanence of certain features, they often forget that in past societies permanence is measured in relation to people's lives. In this sense, raw material durability (stone in the first place) could have been a secondary trait, taking into account that wood can also survive for a long time. However, stone is considered especially suitable for symbolic communication because it lasts for a longer period and it is believed to modify environment on a larger scale (DeMarrais 2004; Scarre 2004, 2010b; Tilley 2004; Cooney 2007; Herrera 2007; Robb 2009). But when we analyse every case, it is evident that features which are interpreted as symbolism (provenance, shape, decoration, modification, etc.) are really related to production costs (Laffineur 2007:118, 120). In this sense it is possible that a better finished work carried a more understandable message, for example with "artistic" representations.

Taking into account these previous discussions, first we must remember the different functions that megaliths can carry as ritual monuments (Tilley 1993; Nocete et al. 1995; DeMarrais et al. 1996; García 2000; Cámara 2001; Mantha 2009): cohesion symbols (not only of the whole community but also of a section of it), property and boundary marks and inequality expressions (or ways of concealment). Secondly, among these three functions, the second one has mainly driven the research agenda for the study of Late Prehistory in the Iberian Peninsula and as a result economic territories, routes and sceneries have been defined. Here, we claim that the definition of intertombs differences in certain situations could help to identify social inequalities concealed by a collective burial. In order to do that, it will be necessary to study how every grave (or group of graves) has developed a monumental character by analysing the tomb's inner (content, especially grave goods, built spatial features)

¹ We must thank our postgraduate students, and especially Abel Berdejo Arceiz, for their useful comments on this subject.

and outer space (outer shape according to mound, façade and outer features) and location (distribution, visibility, impact over surrounding areas).

First we will studied location traits in the Tabernas and Los Millares cases. Secondly we will analysed contents

and certain other characteristics (mainly shape and size) especially in Los Millares necropolis. Some features as decoration and remains of outer ceremonies will not be treated because of the few available data.



Fig. 2. Systematic surface survey transects in Pasillo de Tabernas area, including identified Neolithic and Chalcolithic settlements (polygonal symbols) and megaliths (white circles)

Methodology to analyse the Pasillo de Tabernas megalithic distribution

Introduction

Spatial distribution of megaliths has been considered in the analysis of 'Megaliths in Iberian Southeast' and was possible due to the good results of the systematic surface surveys, especially in Pasillo de Tabernas area (Maldonado et al. 1991-92; Alcaraz et al. 1994) (fig. 2). An important unresolved issue is the exact chronology of every tomb, since most of them were excavated or destroyed before our research, and none of the well preserved graves has been recently excavated. However, dates of burials and dates of construction can be different (Scarre 2010a; Schulz Paulsson 2010) and our main interest lies in studying the way in which all sets of graves were used to define territories throughout the IV and III Millennia cal B.C. by adding similar monuments continuously. Although that it is better to have enough data to relate burial episodes in order to make a social comparison, at present, this is almost an impossible task.

Our first analysis studied the differences between megalithic necropoleis and, it became clear that it is important to pay attention to the topographic characteristics of every tomb (Cámara 2001), since the limits of the necropoleis are very often difficult to define, as we can see in the tomb distribution of Rambla de Velefique-Rambla del Sevillano and Hoya de la Matanza-Sierra Bermeja-Rambla de Senés. This last approach has also been used in this paper, taking into account gradient and visibility values of each tomb.

Topographic Analysis Methodology and results

A longer discussion of the characteristics of topographic variables used in order to study site location can be found in different publications (Nocete, 1989, 1994; Spanedda, 2007). Based on previous results of tombs location in Pasillo de Tabernas, we have reduced the topographic analysis to the values that can offer some clues about territorial control depending on the relative height of tombs and gradient of the places where they are located.

Six variables have been selected to conduct this study (Spanedda *et al.*, this volume):

1) A set of indices referring to the organisation of the settlement within 1 km radius:

a) YCAIP (geomorphologic area gradient index). This is obtained by dividing the difference between the maximum and minimum height of the 1 km radius area around the site by the distance between the two.

b) YCAI1 (visual dominance index 1). This is obtained by dividing the height of the site by the maximum height of the 1 km area.

c) YCAI2 (visual dominance index 2). This is obtained by dividing the height of the site under study by the minimum height of the 1 km area.

2) A second set of indices refers to the relation of the site within 250 m in radius.

d) YCAUIP (250 m geomorphologic area gradient index). This is obtained by dividing the difference between the maximum and minimum heights of the 250 m radius area around the site by the distance between the two.

e) YCAUI1 (visual dominance index 1). This is obtained by dividing the height of the site by the maximum height of the 250 m area.

f) YCAUI2 (visual dominance index 2). This is obtained by dividing the height of the site by the minimum height of the 250 m radius km area.

The analysis is centered on Rambla de los Molinos and its tributary rivers (mainly Tabernas, Velefique and Senes municipalities), since in Gérgal municipality the surface surveys were very restricted.

Results of Cluster and Principal Components Analyses (figs. 3 and 4) have been combined in order to obtain a classification which will enable the identification of general patterns in tombs distribution. Taking into account that the accumulated variation in components 1 and 2 is 67,548%, table 1 synthesizes their values.

	Component			
	1	2		
YCAIP	0,341	0,776		
YCAI1	0,764	-0,349		
YCAI2	0,888	0,064		
YCAUP	0,641	0,548		
YCAUI1	0,593	-0,551		
YCAUI2	0,676	-0,119		

 Table 1. Values of each variable in each component according Principal Component Analysis

GROUP	YCAIP	YCAI1	YCAI2	YCAUP	YCAUI1	YCAUI2
Α	0,065-0,282	0,691-0,931	1,054-1,221	0,077-0,370	0,844-1	1,010-1,165
В	0,065-0,312	0,740-1	1,123-1,426	0,202-0,478	0,905-1	1,050-1,214
С	0,117-0,292	0,698-0,953	1,099-1,330	0,306-0,612	0,885-1	1,046-1,178
D	0,340-0,376	0,714-0,788	1,079-1,116	0,222-0,352	0,906-0,945	1,005-1,075
Ε	0,088-0,429	0,874-1	1,299-1,544	0,282-0,583	0,925-1	1,051-1,378

Table 2. Values of groups according to Cluster Analysis



Fig. 3. Topographic analysis of Pasillo de Tabernas megalithic graves. Cluster Analysis. Dendrogram



Fig. 4. Topographic analysis of Pasillo de Tabernas megalithic graves. Principal Components Analysis. 1st and 2nd Components Graphics

According to values of each group of tombs (table 2), strategic dominance is mainly exerted by tombs included in Groups B and E. It is very interesting that some of these graves are part of valley necropoleis (fig. 5), especially in Rambla del Búho and Rambla de los Pilares areas, both of them in the Western part of Pasillo de Tabernas. The differences between the Western and the Eastern areas of the studied portion of Pasillo de Tabernas have been pointed out by previous analyses regarding megalith visibility (Cámara 2001; Cámara and Molina 2004) and settlement patterns (Molina and Cámara 2005, 2010). Megaliths located in mountains to the South and to the North are the other tombs in groups B and E, although the Torrecilla tombs located to the East, and considered as linking necropolis (Cámara 2001; Cámara and Molina 2004), are also included in group B. The differences between groups B and E depend on the geomorphologic area gradient which is higher in E group. It is noteworthy that tombs of group E in the Western area can be located in the Serrata del Pueblo and La Barquilla necropoleis near Rambla de los Molinos valley where the main settlements are situated, such as Terrera Ventura (Gusi and Olaria 1991) or El Búho. It seems that interest in control of the sacred boundaries by funerary monuments is the main factor in this Western area where the Late Neolithic and Chalcolithic population is concentrated in few villages. In the Eastern area, the changes in settlement patterns in these periods are characterized by an increasing emphasis on territorial control exerted from domestic sites and a population concentration between the Late Neolithic and Chalcolithic periods (Molina and Cámara 2005, 2010).

Some tombs located in the lowest areas with high gradient near river valleys are included in group D. They define the beginning of roads connecting valley bottoms with mountain summits.

SUBGROU	P YCAI	P YCAI1	YCAI2	YCAUP	YCAUI1	YCAUI2
A1	0,065-0,	0,691-0,931	1,062-1,216	0,077-0,237	0,928-1	1,020-1,165
A2	0,090-0,	0,723-0,897	1,054-1,221	0,181-0,370	0,844-0,986	1,010-1,148
B1	0,065-0,	261 0,819-1	1,123-1,347	0,202-0,430	0,905-1	1,050-1,169
B2	0,087-0,	312 0,740-0,904	1,201-1,426	0,300-0,478	0,913-1	1,060-1,214
C1	0,134-0,	0,897-0,953	1,220-1,330	0,506-0,612	0,953-1	1,086-1,125
C2	0,117-0,	0,698-0,838	1,099-1,242	0,323-0,590	0,885-1	1,046-1,178
E1	0,243-0,2	0,975-0,998	1,457-1,491	0,370-0,507	0,984-0,998	1,290-1,378
E2	0,088-0,4	429 0,874-1	1,299-1,544	0,282-0,583	0,925-1	1,051-1,202
Table 3. Values of subgroups according to Cluster Analysis						
TYPE	YCAIP	YCAI1	YCAI2	YCAUP	YCAUI1	YCAUI2
	0,065-0,174	0,781-0,931	1,062-1,168	0.096-0.237	0.928-1	1,020-1,118
A1b	0,125-0,212	0,691-0.774	1,091-1,216	0,077-0,171	0,936-0,998	1,022-1,165
A2a	0,120-0,188	0,723-0,781	1,117-1,201	0,181-0,297	0,844-0,941	1,046-1,148
A2b	0,225-0,251	0,758-0.848	1,054-1,123	0,239-0,351	0,912-0,931	1,010-1,046
A2c	0,090-0.282	0,772-0,897	1,101-1,221	0,195-0,370	0,903-0,986	1,036-1,124
B1a	0,091-0,136	0,819-0,877	1,220-1,347	0,202-0,326	0,905-1	1,089-1,159
B1b	0,065-0,261	0,853-1	1,123-1,298	0,205-0,430	0,936-1	1,050-1,169
B2a	0,087-0,191	0,824-0,904	1,318-1,426	0,300-0,478	0,940-1	1,117-1,210
B2b	0,193-0,312	0,740-0,881	1,201-1,336	0,311-0,452	0,913-1	1,060-1,214
C2a	0,183-0,292	0,698-0,837	1,099-1,194	0,323-0,435	0,885-1	1,058-1,178
C2b	0,117-0,193	0,761-0,838	1,107-1,242	0,491-0,590	0,931-0,950	1,046-1,137
E1a	0,243	0,982-0,986	1,468-1,474	0,507	0,984-0,988	1,352-1,357
E1b	0,243-0,247	0,975-0,998	1,457-1,491	0,370-0,435	0,984-0,998	1,290-1,378
E2a	0,088-0,222	0,941-0,984	1,428-1,523	0,282-0,380	0,976-1	1,088-1,202
E2b	0,222-0,429	0,874-1	1,299-1,544	0,292-0,583	0,925-1	1,051-1,165

Table 4. Values of types according to Cluster Analysis

Tombs in lowland areas are included in groups B and C, the latter including tombs located in high gradient places even in lowland areas. Differences between Western and Eastern areas can also be noted. Graves from group C in the Western area are located in necropoleis situated in the main valley (El Chortal and Rambla del Búho), while in the Eastern area, this kind of tombs are located in the bottom of a special and closed zone called Hoya de la Matanza suitable for grazing and having plenty of surface water. This region was considered as very important during the Bronze Age, too, as settlements and hill-forts occupy all the surrounding summits in order to control the access to the area.



Fig. 5. Distribution of graves types in Pasillo de Tabernas according to the results of the topographic analysis

If we pay close attention to the subgroup classification (table 3) some other characteristics can be discussed. Graves from subgroup E1 can be only found in Serrata del Pueblo necropoleis. Tombs in this subgroup show a higher control over the neighboring areas. Tombs from subgroup C2 show a low territorial control even as all the C group tombs' high gradient places have been chosen to situate them. This result allows a better comprehension of the graves from group D as the first step on the path to disperse and mountain necropoleis, but El Chortal cases, however, cannot be related to a similar situation mainly because of Llanos de Rueda (Leisner and Leisner 1943) tombs destruction.

Only one comment will be made here in relation to the type characterization of subgroup E2 because of its heterogeneity. E2a type tombs (table 4) show lesser control over the neighbouring area in E group but they are sepulchres located in the flattest areas of the mountains.

Concluding Remarks about Pasillo de Tabernas megalithic distribution

This new approach has shown that graves can be distinguished by their location, especially within dispersed necropoleis but also in some important valley necropoleis as Rambla del Búho, where tombs of different formal types can be recognized.

According to previous data (Cámara and Molina 2004) we can see, that the graves located on the highest places seldom control graves located in lower areas, but in valley necropoleis the visual connection is emphasized and dominance over surrounding land is exerted by most of the tombs of Western necropoleis.

In that sense, we can say that in dispersed necropoleis the ideological control of people (dead people) as a justification of the control of the labour force is left apart from the territorial control. The first aim is attained by dominance over other tombs, while the second is achieved by total territorial dominance (Cámara and Molina 2004).

Otherwise visual links between tombs aimed to generate an ideological cohesion within a boundary, as can be appreciated by connections between necropoleis situated in the valley and dispersed necropoleis in the near mountains (especially in the Eastern area) (Cámara 2001).

Finally, in valley necropoleis, that are near the settlements, differences in grave location, correlated with tombs shapes suggest that in these areas the tombs were used to show social differences; especially in the Western area these differences include a different interest in territorial control as can be seen in Rambla del Búho necropolis.

Los Millares grave goods

Some information about the Los Millares necropolis can be found in the first publications of the site (Siret 1893) and in different catalogues and studies made during the last decades (Leisner and Leisner 1943; Almagro and Arribas 1963; Chapman 1991; Aranda and Sánchez 2005; Cámara and Molina 2005; Cámara *et al.* 2010b). Most of the graves are *tholoi* (sepulchers with a round chamber made in masonry, covered by a false vault and with a long corridor) but some tombs are true orthostatic dolmens.

A strong differentiation in grave goods among Los Millares graves was noted by R.W. Chapman (1991), taking into account prestige items such as metal weapons, ivory objects, ostrich eggs, flint daggers, Beaker pottery and other decorated pottery. Discussing correlations between presently visible tombs and the ones excavated by Siret, according M. Almagro and A. Arribas (1963), R.W. Chapman differentiated a group of tombs that is richer in graves goods than the other tombs, thus suggesting lineage differences. Even authors who doubt the social hierarchy at Los Millares have talked about funerary ritual as an "arena" for lineage competition (Díaz del Río 2011:50-51). However, doubts about this classification have been presented by other researchers (Micó 1993), based mainly on certain problems as plundering before L. Siret's and P. Flores's excavations and the limitations of this ancient research (Siret 1893). These problems demanded that our criteria ought to be more qualitative than quantitative in order to classify the tombs according to their grave goods.

Taking into account the associations of these items, we have considered four wealth levels and a set of graves without data (Molina and Cámara 2005). Results have shown that the richest tombs (type A) are located closer to the village or to the road which leads to the settlement (fig. 6). Only in the area near the village gate, the main grave (7-VII) is located in the centre of its group and it is the only one in the area near the village gate. The main tombs usually contain metal weapons, flint daggers, many flint arrowheads, decorated pottery (Symbolic, Beaker and Painted), stone vessels, ivory items and a great amount of idols made in different raw materials, and present closed ceremonial areas with baetyls. It is noteworthy that B. Blance (1971) considers most graves of types A and B as not being covered by a false vault due to the chamber size in relation to the mound. Exotic raw materials (Subbetic flint, Huelva volcanic stones and siliceous materials from the North-Western Mediterranean shore) used in the knapping of lithic tools are only found in these graves, where tools made by specific techniques (daggers and large blades made by pressure flaking) are deposited (Afonso et al., 2011).



Fig. 6. Differences in grave goods deposition in the Los Millares megalithic necropolis. Graves numbers follow Almagro & Arribas 1963 (Roman numbers) and Leisner & Leisner 1943 (Arabic numbers)

Graves situation analysis on Los Millares necropolis

In order to relate the grave goods with location of the graves, we have used similar variables (see above) regarding gradient and relative height but measured in 25 and 50 m radius, since we were interested in differentiation within the same necropolis and because of the little difference in height in the Los Millares plateau. This approach which pays special attention to small differences in location has been possible because 1:2000 maps are available. Visual dominance 2 indexes have not been used because of the distortion in the differentiation provoked by ravines (Cámara *et al.*, 2010b). In this sense four indexes have been considered in this analysis:

a) YCAIP50 (50 m geomorphologic unit gradient index). This is obtained by dividing the difference between the maximum and minimum heights of the 50 m radius area around the site by the distance between the two.

b) YCAI150 (visual dominance index 1). This is obtained by dividing the height of the site by the maximum height of the 50 m area.

c) YCAIP25 (50 m geomorphologic unit gradient index). This is obtained by dividing the difference between the maximum and minimum heights of the 25 m radius area around the site by the distance between the two.

d) YCAI125 (visual dominance index 1). This is obtained by dividing the height of the site by the maximum height of the 25 m area.



Fig. 7. Topographic analysis of Los Millares megalithic graves. Cluster Analysis. Dendrogram



Fig. 8. Topographic analysis of Los Millares megalithic graves. Principal Components Analysis. 1st and 2nd Components Graphics

These indexes have been again treated with multivariate statistical techniques: Cluster and Principal Components Analysis. The former was used to define groups (fig. 7) and the results have been modified according to Principal Components Analysis data (fig. 8). Taking into account that accumulated variation in components 1 and 2 is 96,862%, table 5 synthesizes the results.

	Component		
	1	2	
YCAI150	0,860	0,443	
YCAI250	-0,530	0,743	
YCAI125	0,821	0,513	
YCAI225	-0,596	0,686	

 Table 5. Values of each variable in each component according Principal

 Component Analysis



Fig. 9. Distribution of tombs types in Los Millares necropolis according to the topographic analysis. Graves numbers follow Cámara et al., 2010b

Graves in the highest areas and far from ravines are included in type I, tombs in lowland areas are included in type II, while tombs located in low areas near ravines can be found in type III and tombs in high positions near ravines constitute type IV (fig. 9).

Graves with rich grave goods are concentrated in certain subtypes, but they are not located in the highest positions, as it has been suggested for the South-Western megaliths (Morán and Parreira 2004; Nocete and Peramo 2010). In Los Millares, the main interest is to situate tombs in the areas near the village or along the route which leads to the settlement, in flat areas which are easy to modify and allow the construction of a great monument. These tombs with rich grave goods are located far from ravines and bottom areas, where in some cases graves may have been built at a later stage, although no comparison between dates is possible. If we only pay attention to the tombs in these flat areas, we can suggest that graves with the richest grave goods are located in the highest positions (subtypes Ia and Ic) within these plain areas, although visual dominance is poor, especially over the lowest areas. The surrounding tombs are in pursuit of similar positions, especially in the central area of the necropolis. However, no rich tomb is known near ravines. In this sense, monumentality (and impact over environment and audience) is not attained by visibility from the grave but by the perception of each tomb in its immediate environment, that is achieved not by topographic setting but by grave size and proximity to the village and roads that lead to the settlement, as we have previously proposed (Molina and Cámara 2005).

Conclusions

In relation to the main aim of this paper, we have been able to say that the greatest differences between the Los Millares and Pasillo de Tabernas necropoleis can be found between Los Millares and Tabernas mountain dispersed necropoleis where is obtained the greatest dominance between some tombs and surrounding areas. However, we can also find differences in the position of tombs in the valley necropoleis. The largest tombs are situated in the flattest and the most central places in Los Millares necropolis, creating monumentality through shape, contents, size and proximity to the village and routes which lead to the settlement, while territorial control is emphasized by certain tombs (especially *tholoi*) in other necropoleis of Pasillo de Tabernas, for example, Rambla del Búho.

We argue that a distinction can be made between necropoleis where inequality is exhibited (the valley cemeteries where tombs are distinguished by contents, shape and size and highlands cemeteries whose graves are differentiated by shape and their dominance over other tombs), necropoleis where cohesion is the main aim (there is a visual connection in the middle areas) and necropoleis aimed at territorial control (routes demarcation by dispersion and environmental control by strategic situation of tombs located on hilltops).

In summary and taking into account the discussion about the role of the collective burial in masking of class differences (Chambon 2000:273; García 2000:174; Cámara 2001:236; Nocete 2001:97), we can find no differences in the emphasis which elites have developed to mark their land rights in intensive farming areas on one hand, and extensive economic use on the other hand. However, there are differences in the way and degree in which elites exhibit their position since differences in grave goods look greater in the first area where almost all the tombs seem monumental in terms of shape and size, while in the second area, the graves are mainly used to emphasize territorial control.

References

AFONSO, J.A., CÁMARA, J.A. (2006): The role of the means of production in social development in the Late Prehistory of the Southeast Iberian Peninsula, *Social Inequality in Iberian Late Prehistory. Papers from the session 'Social Inequality in Iberian Late Prehistory' presented at the Congress of Peninsular Archaeology, Faro, 2004* (P. Díaz del Río & L. García, Eds.), British Archaeological Reports. International Series 1525, Oxford, pp. 133-148.

AFONSO, J.A., CÁMARA, J.A., MARTÍNEZ, G., MOLINA, G. (2011): Objetos en materias primas exóticas y estructura jerárquica de las tumbas de la necrópolis de Los Millares (Santa Fe de Mondújar, Almería, España), *Exploring Time and Matter in Prehistoric Monuments: Absolute Chronology and Rare Rocks in European Megaliths. Proceedings of the 2nd EMSG Meeting (Seville, November 2008)* (L. García, C. Scarre & D.W. Wheatley, Eds.), Menga. Revista de Prehistoria de Andalucía. Monografías 1, Consejería de Cultura de la Junta de Andalucía, Sevilla, pp. 295-322.

ALCARAZ, F.M., CASTILLA, J., HITOS, M.Á., MALDONADO, G., MÉRIDA, V., RODRÍGUEZ, F.J., RUIZ, Mª.V. (1994): Prospección arqueológica superficial en el Pasillo de Tabernas. Primeros resultados y perspectivas metodológicas, Origens, estruturas e relações das Culturas calcolíticas da Península Ibérica (Actas das I Jornadas Arqueológicas de Torres Vedras 3-5 Abril 1987) (M. Kunst, Coord.), Trabalhos de Arqueologia 7, pp. 217-223.

ALMAGRO, M., ARRIBAS, A. (1963): El poblado y la necrópolis megalítica de Los Millares (Santa Fe de Mondújar, Almería), Biblioteca Praehistorica Hispanica III, Madrid.

AMBRIDGE, L. (2007): Inscribing the Napatan landscape, *Negotiating the Past in the Past: Identity, Memory, and Landscape in Archaeological Research* (N. Yoffee, Ed.), University of Arizona Press, Tucson, 2007, pp. 128-154.

ARANDA, G., SÁNCHEZ, M. (2005): The origins of warfare: later prehistory in southeastern Iberia, *Warfare*, *violence and Slavery in Prehistory. Proceedings from a Prehistoric Society conference at Sheffield University* (M.P. Pearson & F.N. Thorpe, Eds.), British Archaeological Reports. International Series 1374, Oxford, pp. 181-194.

BARD, K.A. (1992): Toward an Interpretation of the Role of Ideology in the Evolution of Complex Society in Egypt, *Journal of Anthropological Archaeology* 11:1, pp. 1-24.

BLANCE, B. (1971): Die Anfänge der Metallurgie auf der Iberischen Halbinsel, S.A.M. 4, Berlín.

BLOCH, M. (2000): Uomini in luoghi. Villaggi, case e pietre come memoria genealogica in Madagascar, *Memorie e identità. Simboli e strategie del ricordo* (U. Fabietti & V. Matera), Gli argonauti 53, Meltemi, Roma, pp. 47-53 (1993).

BRADLEY, R. (2002): *The Past in Prehistoric Societies*, Routledge, London.

BUENO, P., BALBÍN, R. de, BARROSO, R., CARRERA, F., ALFONSO, J., ALONSO, J., BARBADO, J.J., BERZAS, G., MARTÍN, M.A., SALGADO, P. (2010): Secuencias gráficas Paleolítico-Postpaleolítico en la Sierra de San Pedro. Tajo Internacional. Cáceres, *Trabajos de Prehistoria* 67:1, pp. 197-209.

CÁMARA, J.A. (2001): El ritual funerario en la Prehistoria Reciente en el Sur de la Península Ibérica, British Archaeological Reports. International Series 913, Oxford.

CÁMARA, J.A., MOLINA, F. (2004): El megalitismo en el sureste de la Península Ibérica. Ideología y control territorial, *Los enterramientos en la Península Ibérica durante la Prehistoria Reciente* (I. Marqués, M.C. Gontán & V. Rosado, Coords.), *Mainake* XXVI, pp. 139-163.

CÁMARA, J.A., AFONSO, J.A., SPANEDDA, L. (2010a): Conclusions. Monumentality among Strategies of Concealment and Exhibition, *Links between megalithism and hypogeism in Western Mediterranean Europe* (J.A. Cámara, J.A. Afonso & L. Spaneda, Eds.), British Archaeological Reports. International Series 2151, Archaeopress, Oxford, pp. 135-149.

CÁMARA, J.A., MOLINA, F., ALCARAZ, F.M. (2010b): El Megalitismo en el Sudeste de la Península Ibérica. Propuestas de análisis territorial, *Actas del Congreso Internacional sobre Megalitismo y otras manifestaciones funerarias contemporáneas en su contexto social, económico y cultural* (J. Fernández Eraso & J.A. Mujika Alustiza, Eds.), Munibe Suplemento 32, San Sebastián, pp. 324-340.

CARRIÓN, J.S., SÁNCHEZ-GÓMEZ, P., MOTA, J.F., YLL, R., CHAÍN, C. (2003): Holocene vegetation dynamics, fire and grazing in the Sierra de Gádor, southern spain, *The Holocene* 13:6, pp. 839-849.

CASTRO, P.V., ESCANILLA, N., OLTRA, J., ESCORIZA, T., SARKIS, D. (2010): Unlike Communities: Domestic Architectural Duality in Late Prehistory of The Western Mediterranean, *Conceptualising Space and Place. On the role of agency, memory and identity in the construction of space from the Upper Palaeolithic to the Iron Age in Europe* (A.M.S. Bettencourt, M.J. Sanches, L.B. Alves & R. Fábregas Valcarce, Eds.), Union Internationale des Sciences Préhistoriques et Protohistoriques. Actes du XV Congrès Mondial (Lisbonne, 4-9 Septembre 2006). Vol. 41 (L. Oosterbeek, Series Ed.), C41 - The creation of 'significant places' and 'landscapes' in the Northwestern half of the Iberia, during Pre and Proto-historic times. Theoretical, recording and interpretation issues from case studies in this region. C72 - Space, Memory and Identity in the European Bronze Age, British Archaeological Reports. International Series 2058, Oxford, pp. 143-152.

CHAMBON, P. (2000): Les pratiques funéraires dans les tombes collectives de la France néolithique, *Bulletin de la Société Préhistorique Française* 97:2, pp. 265-274.

CHAPMAN, R.W. (1991): La formación de las sociedades complejas. La Península Ibérica en el marco del Mediterráneo Occidental, Crítica, Barcelona.

COONEY, G. (2007): Working Stone: Making Monuments in the Irish Neolithic, *Cult in Context. Reconsidering Ritual in Archaeology* (D.A. Barrowclough, C. Malone, Eds.), Oxbow Books, Oxford, pp. 140-147.

CUNNINGHAM, T. (2007): Havoc: the destruction of power and the power of destruction in Minoan Crete, Architecture. Monumental Power and Public Architecture in the Bronze Age Near East and Aegean. Proceedings of the international conference Power and Architecture organized by the Katholieke Universiteit Leuven, the Universitè Catholoique de Louvain and the Wstfälische Wilhelms-Universiät Münsters on the 21st and 22nd of November 2002 (J. Bretschneider, J. Driessen, K. van Lerberghe, Eds.), Uitgeveru Peeters en Departement Ooesterse Studies, Leuven-Paris-Dudley, pp. 23-43.

DANEELS, A. (2010): Earthen architecture in classic period central Veracruz, Mexico: Veracruz, Mexico: development and function, *Monumental Questions: Prehistoric Megaliths, Mounds and Enclosures. International Union for Prehistoric and Protohistoric Societies. Proceedings of the XV World Congress* (*Lisbon, 4-9 September 2006). Vol. 8. Session C68 (Part II)* (D. Calado, M. Baldia & M. Boulanger, Eds.), British Archaeological Reports. International Series 2123, Archaeopress, Oxford, pp. 223-230.

DeMARRAIS, E. (2004): The Materialization of Culture, *Rethinking Materiality: the engagement of mind with the material world* (E. DeMarrais, C. Gosden & C. Renfrew, Eds.), McDonald Institute Monographs, Cambridge, pp. 11-22.

DeMARRAIS, E. (2007): Settings and symbols: assessing complexity in the pre-Hispanic Andes, *Socialising Complexity: Structure, Interaction and Power in Archaeological Discourse* (S. Kohring & S. Wynne-Jones, Eds.), Oxbow Books, Oxford, pp. 118-140.

DeMARRAIS, E., CASTILLO, L.J., EARLE, T. (1996): Ideology, Materialization, and Power Strategies, *Current Anthropology* 37:1, pp. 15-31. DÍAZ DEL RÍO, P. (2011): Labor in the Making of Iberian Copper Age Lineages, *Comparative Archaeologies. The American Southwest (AD 900–1600) and the Iberian Peninsula (3000–1500 BC)* (K.T. Lillios, Ed.), Oxbow Books, Oxford & Oakville, pp. 37-56.

DRIESSEN, J. (2007): IIB or not IIB: on the beginnings of Minoan monument building, *Power and Archiecture*. *Monumental Public Architecture in the Bronze Age Near East and Aegean. Proceedings of the international conference Power and Architecture organized by the Katholieke Universiteit Leuven, the Universitè Catholoique de Louvain and the Wstfälische Wilhelms-Universiät Münsters on the* 21st and 22nd of November 2002 (J. Bretschneider, J. Driessen & K. van Lerberghe, Eds.), Uitgeveru Peeters en Departement Ooesterse Studies, Leuven-Paris-Dudley, pp. 73-92.

ESQUIVEL, J.A., NAVAS, E. (2005): The geometry and the metric used in the enclosure "Fortín 1" at Copper Age site of Los Millares (Almería, Andalusia), *Journal of Archaeological Science* 32, pp. 1577-1586.

ESQUIVEL, J.A., NAVAS, E. (2007): Geometric architectural pattern and constructire energy analysis at Los Millares Copper Age Settlement (Santa Fe de Mondújar, Almería, Andalusia), *Journal of Archaeological Science* 34, pp. 894-904.

FAHLANDER, F., OESTIGAARD, T. (2008): The Materiality of Death: Bodies, Burials, Beliefs, *The Materiality of Death: Bodies, Burials, Beliefs,* (F. Fahlander & T. Oestigaard, Eds.), British Archaeological Reports. International Series 1768, Oxford, pp. 1-18.

GARCÍA, L. (2000): Grandes piedras, paisajes sagrados, *Boletín del Instituto Andaluz del Patrimonio Histórico* 31, pp. 171-178.

GARCÍA, L. (2005): Las piedras de la memoria. La permanencia del megalitismo en el Suroeste de la Península Ibérica durante el II y I milenios ANE, *Trabajos de Prehistoria* 62:1, pp. 85-109.

GARCÍA, L. (2011): Transformations, Invocations, Echoes, Resistance: The Assimilation of the Past in Southern Iberia (5th to 1st Millennia BC), *Comparative Archaeologies. The American Southwest (AD 900–1600) and the Iberian Peninsula (3000–1500 BC)* (K.T. Lillios, Ed.), Oxbow Books, Oxford & Oakville, pp. 81-102.

GRIMA, R. (2007): Landscape and Ritual in Late Neolithic Malta, *Cult in Context. Reconsidering Ritual in Archaeology* (D.A. Barrowclough & C. Malone, Eds.), Oxbow Books, Oxford, pp. 35-40.

GUILAINE, J. (1996): Proto-megalithisme, rites funeraires et mobiliers de prestige neolithiques en Mediterranee Occidentale, *Homenaje al Profesor Manuel Fernández-Miranda* I (M.A. Querol & T. Chapa, Eds.), Complutum Extra 6:I. pp. 123-140. GUSI, F., OLARIA, C. (1991): *El poblado neoeneolítico de Terrera Ventura (Tabernas, Almería)*, Excavaciones Arqueológicas en España 160, Madrid.

HAMILTON, S., SPICER, A. (2005): Defining the Holy: The Delineation of Sacred Space, *Defining the Holy. Sacred Space in Medieval and Early Modern Europe* (S. Hamilton & A. Spicer, Eds.), Ashgate Publishing Limited, Hants, pp. 1-10.

HARRIS, O. (2009): Making Places Matter in Early Neolithic Dorset, *Oxford Journal of Archaeology* 28:2, pp. 111-123.

HERRERA, A. (2007): Social landscapes and community identity: the social organisation of space in the northcentral Andes, *Socialising Complexity: Structure, Interaction and Power in Archaeological Discourse* (S. Kohring & S. Wynne-Jones, Eds.), Oxbow Books, Oxford, pp. 161-185.

HOLTORF, C., WILLIAMS, H. (2006): Landscapes & memories, *Cambridge Companion to Historical Archaeology*, (D. Hicks & M. Beaudray, Eds.), Cambridge University Press, Cambridge, pp. 235–254.

INSOLL, T. (2007): Archaeology, Ritual, Religion, Routledge, London (2004).

JERPÅSEN, G.B. (2009): Application of Visual Archaeological Landscape Analysis: Some Results, *Norwegian Archaeological Review* 42:2, pp. 123-145.

JOHANSEN, P.G. (2004): Landscape, monumental architecture, and ritual: a reconsideration of the South Indian ashmounds, *Journal of Anthropological Archaeology* 23:3, pp. 309-330.

JOYCE, R.A. (2003): Concrete memories: Fragments of the past in the Classic Maya present (500– 1000 AD), *Archaeologies of memory* (R. van Dyke & S. Alcock, Eds.), Blackwell, Oxford, pp. 104-125.

KHATTRI, M.B. (2008): Ethnicity, National Integrity and Monument in Argal, *Dhaulagiri*. *Journal of Sociology and Anthropology* 2, pp. 101-120.

LAFFINEUR, R. (2007): Building for ruling. Architecture and power at Mycenae, *Power and Archiecture. Monumental Public Architecture in the Bronze Age Near East and Aegean. Proceedings of the international conference Power and Architecture organized by the Katholieke Universiteit Leuven, the Universitè Catholique de Louvain and the Westfälische Wilhelms-Universiät Münsters on the* 21st *and* 22nd *of November* 2002 (J. Bretschneider, J. Driessen, K. van Lerberghe, Eds.), Uitgeveru Peeters en Departement Ooesterse Studies, Leuven-Paris-Dudley, pp. 117-127.

LEISNER, G., LEISNER, V. (1943): *Die Megalithgräber der Iberischen Halbinsel. Der Süden.* Römisch-Germanische Forschungen 17. Berlin. MALDONADO, M.G., MOLINA, F., ALCARAZ, F.M., CÁMARA, J.A., MÉRIDA, V., RUIZ, V. (1991-92): El papel social del megalitismo en el Sureste de la Península Ibérica. Las comunidades megalíticas del Pasillo de Tabernas, *Cuadernos de Prehistoria de la Universidad de Granada* 16-17, pp. 167-190.

MANTHA, A. (2009): Territoriality, social boundaries and ancestor veneration in the central Andes of Peru, *Journal of Anthropological Archaeology* 28:2, pp. 158-176.

MICÓ, R. (1993): Pensamientos y Prácticas en las Arqueologías Contemporáneas: Normatividad y Exclusión en los Grupos Arqueológicos del III y II milenios cal ANE en el Sudeste de la Península Ibérica, Tesis Doctoral, Universitat Autònoma de Barcelona, Barcelona.

MOLINA, F., CÁMARA, J.A. (2005): *Guía del yacimiento arqueológico Los Millares*, Empresa Pública de Gestión de Programas Culturales, Consejería de Cultura. Junta de Andalucía, Sevilla.

MOLINA, F., CÁMARA, J.A. (2010): Los Millares y su dominio sobre el valle del Andarax, *PH. Boletín del Instituto Andaluz de Patrimonio Histórico* 73, pp. 60-65.

MOORE, J. (1996): Architecture and Power in the Ancient Andes: The Archaeology of Public Buildings, Cambridge University Press, Cambridge.

MORÁN, E., PARREIRA, R. (2004): O Conjunto préhistórico de Alcalar, *Alcalar 7. Estudo e reabilitação de um monumento megalítico*, IPPAR Cadernos 6, Ministerio da Cultura/IPPAR, Lisboa, pp. 21-121.

MULLIN, D. (2001): Remembering, forgettting and the invention of tradition: burial and natural places in the English Early Bronze Age, *Antiquity* 75:289, pp. 533-537.

NASO, A. (2007): Etruscan Style of Dying: Funerary Architecture, Tomb Groups, and Social Range at Caere and its Hinterland during the Seventh-Sixth Centuries B.C., *Performing Death. Social Analyses of Funerary Traditions in the Ancient Near East and Mediterranean* (N. Laneri, Ed.), The University of Chicago Oriental Institute Seminars 3, The University of Chicago, Chicago, pp. 141-162.

NAVAS, E., ESQUIVEL, J.A., MOLINA, F. (2008): Butchering Patterns and Spatial Distribution of Faunal Animal Remains Consumed at the Los Millares Chalcolithic Settlement (Santa Fe de Mondújar, Almería, Spain), *Oxford Journal of Archaeology* 27:3, pp. 325-339.

NOCETE, F. (1989): El espacio de la coerción. La transición al Estado en las Campiñas del Alto

Guadalquivir (España). 3000-1500 A.C., British Archaeological Reports. International Series 492, Oxford.

NOCETE, F. (1994): La formación del Estado en Las Campiñas del Alto Guadalquivir (3000-1500 a.n.e.), Monográfica Arte y Arqueología 23, Universidad de Granada, Granada.

NOCETE, F. (2001): Tercer milenio antes de nuestra era. Relaciones y contradicciones centro/periferia en el Valle del Guadalquivir, Bellaterra Arqueología, Barcelona.

NOCETE, F., PERAMO, A. (2010): More Than Big Stones! Peripheral and Confined or Resistant Lineage Societies in the Pristine Class-Society Territorial Framework Of The South-Western Iberian Peninsula (2900-2000 BC), Monumental Questions: Prehistoric Megaliths, Mounds and Enclosures. International Union for Prehistoric and Protohistoric Societies. Proceedings of the XV World Congress (Lisbon, 4-9 September 2006). Vol. 7. Session C68 (Part I) (D. Calado, M. Baldia & M. Boulanger, Eds.), British Archaeological Reports. International Series 2122, Oxford, pp. 71-82.

NOCETE, F., ORIHUELA, A., ESCALERA, P., LINARES, J.A., OTERO, R., ROMERO, J.C. (1995): Prospecciones arqueológicas de superficie en el marco del Proyecto Odiel en 1992: II Muestreo Odiel-Oraque (Calañas, Huelva), *Anuario Arqueológico de Andalucía* 1992:II, pp. 209-214.

PEEBLES, C.S., PETERSON, S. (2010): From Moundville to Angel: a comparison of the organization of monumental architecture and central places at three points in space and time in the Mississippian world, *Monumental Questions: Prehistoric Megaliths, Mounds and Enclosures. International Union for Prehistoric and Protohistoric Societies. Proceedings of the XV World Congress (Lisbon, 4-9 September 2006). Vol. 8. Session C68 (Part II)* (D. Calado, M. Baldia & M. Boulanger, Eds.), British Archaeological Reports. International Series 2123, Archaeopress, Oxford, pp. 237-242.

ROBB, J. (2009): People of Stone: Stelae, Personhood, and Society in Prehistoric Europe, Journal of Archaeological Method and Theory 16:3, pp. 162-183.

SAYER, D. (2010): Death and the family: Developing generational chronologies, *Journal of Social Archaeology* 10:1, pp. 59-91.

SCARRE, C. (2004): Displaying the Stones: the Materiality of "Megalithic" Monuments, *Rethinking Materiality: the engagement of mind with the material world* (E. DeMarrais, C. Gosden, C. Renfrew, Eds.), McDonald Institute Monographs, Cambridge, pp. 141-152.

SCARRE, C. (2007): *The Megalithic Monuments of Britain and Ireland*, Thames and Hudson, London (2005).

SCARRE, C. (2008): Nuevos enfoques para el estudio de los monumentos megalíticos de Europa Occidental, *PH. Boletín del Instituto Andaluz de Patrimonio Histórico* 67. *Especial Monográfico Patrimonio Megalítico. Más allá de los límites de la Prehistoria* (L. García Sanjuán, Coord.), pp. 12-23.

SCARRE, C. (2010a): Rocks of ages: tempo and time in megalithic monuments, *European Journal of Archaeology* 13:2, pp. 175-193.

SCARRE, C. (2010b): Megaliths, Memory and the power of stones, Monumental Questions: Prehistoric Megaliths, Mounds and Enclosures. International Union for Prehistoric and Protohistoric Societies. Proceedings of the XV World Congress (Lisbon, 4-9 September 2006). Vol. 7. Session C68 (Part I) (D. Calado, M. Baldia & M. Boulanger, Eds.), British Archaeological Reports. International Series 2122, Archaeopress, Oxford, pp. 91-96.

SCHULZ PAULSSON, B. (2010): Scandinavian models: radiocarbon dates and the origin and spreading of passage graves in Sweden and Denmark, *Proceedings of the 20th International Radiocarbon Conference* (A.J.T. Tull, ed.), *Radiocarbon* 52:2–3, pp. 1002–1017.

SIRET, L. (1893): L'Espagne préhistorique, *Revue des Questions Scientifiques* XXXIV, pp. 537-560.

SMITH, A.T. (2007): The Politics of Loss: Comments on a Powerful Death, *Performing Death. Social Analyses of Funerary Traditions in the Ancient Near East and Mediterranean* (N. Laneri, Ed.), The University of Chicago Oriental Institute Seminars 3, The University of Chicago, Chicago, pp. 163-166.

SPANEDDA, L. (2007): *La Edad del Bronce en el Golfo de Orosei (Cerdeña, Italia)*, Tesis Doctoral, Universidad de Granada, Granada. http://o-hera.ugr.es.adrastea.ugr.es/tesisugr/16526569.pdf

THÄTE, E.S. (2007): Monuments and Minds: Monument Re-use in Scandinavia in the Second Half of the First Millennium A.D., Acta Archaeologica Lundensia. Series in 4°, 27. Institutionen för arkeologi och antikens historia, Lunds universitet, Lund.

THOMPSON, V.D. (2009): The Mississippian production of space through earthen pyramids and public buildings on the Georgia coast, USA, *World Archaeology* 41:3, pp. 445-470.

TILLEY, C. (1993): Art, Architecture, Landscape (Neolithic Sweden), *Landscape. Politics and perspectives* (B. Bender, Ed.), Explorations in Anthropology Series, Berg, Exeter, pp. 49-84.

TILLEY, C. (2004): *The Materiality of Stone: explorations in landscape phenomenology*, Berg, Oxford.

WICKHOLM, A. (2008): Reuse in Finnish Cremation Cemeteries under Level Ground – Examples of Collective Memory, *The Materiality of Death: Bodies, Burials, Beliefs*, (F. Fahlander, T. Oestigaard, Eds.), British Archaeological Reports. International Series 1768, Oxford, pp. 89-97.

WILLIAMS, H. (1997): Ancient Landscapes and the Dead: The Reuse of Prehistoric and Roman Monuments

as Early Anglo-Saxon Burial Sites, *Journal of the Society for medieval Archaeology* 41, pp. 1-32.

YOFFEE, N. (2007): Peering into the Palimpsest: An Introduction to the Volume, *Negotiating the Past in the Past: Identity, Memory, and Landscape in Archaeological Research* (N. Yoffee, Ed.), University of Arizona Press, Tucson, 2007, pp. 1-9.