

A Sacred Landscape

An enquiry into the 'cubas' of southern Portugal

The purpose of this article is to study *cubas* – small architectural structures known for their white-wash-painted domes – and specifically, those located in the *kûra* of Beja in Portugal. Although we can pinpoint the existence of many of these buildings in the Beja territorial area, many questions remain about them, such as: What was the purpose of the *cubas*? When were they built? What is their origin?

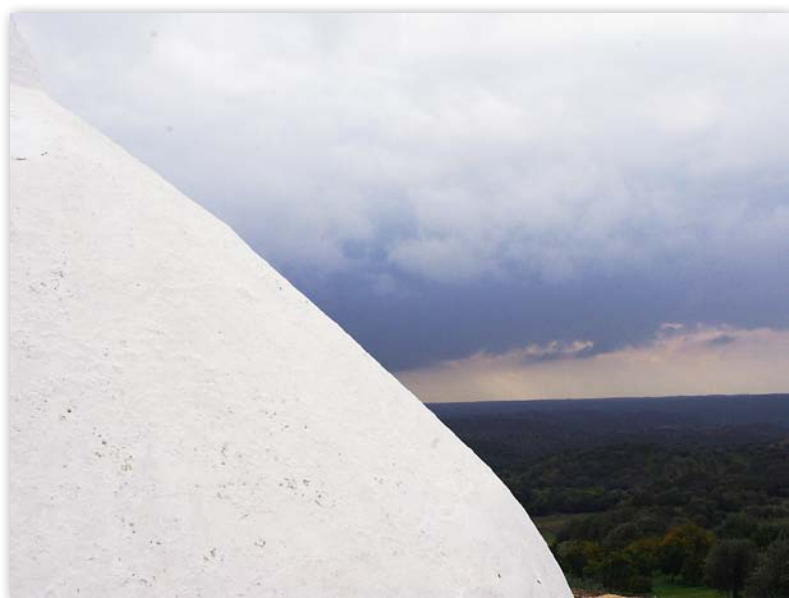
In order to try and answer these questions, I will be following two methods of analysis. First, I will focus on the correlation that exists between these buildings and the landscape in which they are located. This can shed some light on the rationale behind their construction and the purpose of this type of structure. Secondly, I will analyse the buildings themselves – with special attention being given to metric and structural analysis – in order to clarify the period in which they were constructed and the origin of their architectural typology.

By means of this project I also aim to raise awareness, both within the academic community and amongst political decision-makers of the existence of these buildings and their importance for an understanding of Iberian-Islamic culture. Perhaps this will eventually inspire political action that will lead to the development of policies to ensure the preservation of this important part of our architectural and cultural heritage.

Introduction

Anyone who has travelled widely in the Arabic countries and in the regions that were once under Islamic rule – such as southern Iberia, the Balearic Islands, Sicily and Malta – is probably familiar with the *cubas*, certain whitewashed buildings, which are usually abandoned and in ruins, concealed in dense vegetation, or buried in dunes, damaged by the winds and the sand.

The dome is the main feature that identifies this type of construction; the one component that gives singularity to the *cubas*. In Portuguese, the word 'cuba' is a semantic hybrid of the Arabic word *qubbâ* and the Latin word *cupa*, both meaning 'dome' (Gonçalves 1964: 13; Borges 1985: 200; Carreteiro 1997: 7; Martos 1994: 13; Rei 2000: 202; Corriente 1986: 604). The main architectural characteristic of the *cubas* is a combination of the two basic shapes which compose them: a sphere (the dome) on a cube. Since Plato's *Timaeus* the cube has been associated with the element of earth (Martos 1994: 13), while the hemispherical shape – both in Plato's work and in all Oriental cosmogonies – is compared to the celestial welkin or sky (*ibid.* 13). Thus, the Earth and the Sky, in this combination of the cube and the dome, are used to represent the cosmos.



São Brás, Serpa, Portugal.

The specific shapes of the base and the dome may vary from region to region, and the 'solutions to the transitions from the base to the dome can be more or less simple or complex' (Borges 1985: 199). A more thorough analysis may show that the *cubas* in 'Al-Masriq' (the east) are more monumental and vary more in form than those located in 'Al-Maghrib' (the west). Hence, we can identify the existence of an architectural subtype of *cubas* called the 'maghrebian', since many morphological similarities and resemblances in construction can be found between the *cubas* located in Morocco, Algeria, Tunisia, the Balearic Islands, Sicily, Malta and Andalusia.

For the purpose of this article – and in order to develop a more detailed analysis of the *cubas* – I will focus my attention on the study of the architectural elements of the *cubas* located in the *kûra* of Beja – the region's administrative division during Muslim rule – which occupies the territory which falls within the following geographical boundaries: the Sado and the Xarrama rivers, the Alvito Dam, the mountain range of Portel and the Ardila River to the north; the Caldeirão and Monchique mountain ranges to the south;

the Aroche and Morena mountain ranges to the east (today part of Spanish territory); and the Mira River to the West (Macías 2005, Rei 2003).

Since an inventory of this type of building has never been made, the precise number of *cubas* that exist in the *kûra* of Beja is unknown. However, we can point to the existence of hundreds of *cubas* (Borges 1985: 200).

Although the original use of these buildings is still debatable, the majority of researchers argue that the *cubas* were sanctuaries that housed the remains of a Muslim saint, thus immortalizing and perpetuating his symbolic power (Gonçalves 1964: 12). However, the clear tie that exists between the *cubas* and the surrounding landscape has raised many doubts and also led to many hasty conclusions. For example, the historian Artur Goulart Borges sees the location of these structures – at the top of the highest mountains in southern Portugal – as a functional alliance between places of worship and military surveillance (Borges 1985: 199–200). According to Jorge Feio, some *cubas* are located on the official administrative borders of the Alvito County, which can be seen as evidence that



São Lourenço do Olival, Portel, Portugal.

they were both religious in nature and had an administrative function in defining territory. José Pires Gonçalves adds the hypothesis that the *cubas* marked an Islamic necropolis (Gonçalves 1964: 14, 27).

However, the debate over the *cubas* goes far beyond their original purpose; the origin of these architectural structures and the precise dating of their construction is still a matter of dispute in the scientific community. Pires Gonçalves asks: were the *cubas* an architectural form imported from Northern Africa and built during the period of Muslim occupation in Portugal, between 711 and 1191? Or were they the 'expression of a very common type of funeral construction in the Iberian Peninsula during the period that preceded the *Reconquista* and then taken to the Maghreb by the Moorish architects that were expelled from the regions of Estremadura and Andalusia in 1502, and later in 1610?' (Gonçalves 1964: 13; Gabrieli 1965: 105).

Following these debates – and with the recognition that the *cubas* are underappreciated and too little attention has been given to their study – in this article, I hope to achieve two main goals:

1) To access the relevance of the landscape in the popular religious imagination. I will introduce historical data (such as the location of Roman fortifications and roads, burial sites, Muslim *ribats* and *azóias*, watchtowers and medieval convents) onto a map featuring the *kûra* of Beja, as well as geographic data (topography, rocky areas, vegetation, streams and rivers, ancient paths of transhumance, and pilgrimage routes), and the precise locations of the *cubas* I have chosen as my objects of study. By means of an analysis of this data I aim to shed some light on the issue of the original use of the *cubas*.

2) To complete the architectural and photographic survey and consequent inventory of the *cubas* of the *kûra* of Beja – thereby extending work started by Rui Miguel Carreteiro in the district of Évora. It is important to mention that Carreteiro's work did not sufficiently emphasise the existing articulation between the buildings and the surrounding landscape, nor did he give sufficient attention to the morphological, structural and metric features of the *cubas*. In this article I will take into account the importance of these features since they can offer useful evidence in establishing the period in which these buildings were constructed, which will be decisive in clarifying the migratory direction of this very specific architectural form.

State of the art

Most of the *cubas* that were chosen as objects of study in this article have never previously been part of any investigative work; it is not easy to find an architectural case study about the *cubas* and their connections to the surrounding landscape. A study that comes closest to being an introduction to this problematic area is Rui Miguel Carreteiro's work of 1997, entitled '*Cubas* no Alentejo' ("Cubas" in Alentejo). Carreteiro made a series of architectural and photographic surveys that reveal a strong link between geography and the *cubas* located within the southern district of Évora (Carreteiro 1997).

Specifically in relation to the *cubas* located in Portuguese territory, we have already mentioned two of the most relevant papers that present historical investigations on the topic at hand: *A cuba de Monsaraz* ('The Cuba of Monsaraz') (1964) by José Pires Gonçalves, and *As "kubbas" alentejanas. Monumentos de origem ou influência muçulmana no Distrito de Évora* ('The "Kubbas" of Alentejo: originary monuments or Muslim influence in Évora', 1985) by Artur Goulart Borges. Both present the still-unanswered questions concerning the original use, date of construction and migratory direction of the *cubas*.

The study of Iberian political and cultural history during the period of Muslim rule was begun in Portugal by the Spanish architect Fernando Chueca Goitia when he presented his exhibition 'Peninsular Muslim Architecture and its Influence in Christian Architecture: A Photographic Exhibition Inaugurated in November 1962', at the Fundação Calouste Gulbenkian. Thirteen years after this pioneering exhibition, António Borges Coelho published his book entitled *Portugal na Espanha Árabe* ('Portugal in Arabic Spain', 1975), also a very important work to anyone who is interested in investigating Islamic Portugal. Also worth mentioning are the works of António Rei, such as *A fronteira no Sudoeste peninsular (1234–1242). Novas visões da "reconquista" a partir do "al-Mughrib" de Ibn Saïd de Granada* ('The Frontier of the Peninsula's Southeast (1234–1242): new views of the "Reconquista" from the "al-Mughrib" of Granada's Ibn Saïd'); José Luís de Matos' book *Lisboa islâmica* ('Islamic Lisbon', 1999); and the projects connected to the Mértola Archaeological Site under the supervision of Cláudio Torres and Santiago Macias.

At the international level Spain has undoubtedly done the most scientific research into this topic. I would like to highlight the pioneering works written by Torres Balbás: 'Rábitas Hispanomusulmanos'



São Sixto, Cuba, Portugal.

(1948) and ‘Cementerios Hispanomusulmanos’ (1957), both papers published in the *Al-Andalus Journal*. Specifically concerning the *cubas* located in Northern Africa, I would like to mention the *Hespéris Journal* – especially the work of Henri Basset and Henri Terrasse, such as *Chella, une nécropole mérinide* (‘Chella: a Merinide Necropolis’, 1922) – and the *Muqarnas Journal*, particularly the papers ‘Andalusian roots and Abbasid homage in the qubbat al-Barudiyyin in Marrakech’ (2008) by Yasser Tabbaa and ‘The church of the cuba near Castiglione di Sicilia and its cultural context’ (1994) by Charles E. Nicklies.

These examples illustrate a lack of investigative studies of the *cubas* located in Beja. Most of the work that is available is focused on their historical aspects.

Analysis of the *cubas* located in the *kûra* of Beja

In order to access the relevance of the landscape for the popular religious imagination – the first aim of this project – I needed to have a macro-image of the landscape of the *kûra* of Beja. For that purpose I marked on a map of the region the precise location of the *cubas* as well as the relevant geographic and historical data. The overlap of information approximates this project to a study in the archaeology of space, since I am searching for traces of elements that may have been there and with which the *cubas* might share a strong link, ‘as if all was united in one drawing; one ancient, great and unique project’ (Grassi 1983: 38), ‘where architecture is associated to the natural world through a system of relations in which the rules of

proportion and dimension of the edifices seem to be an extension [of nature]’ (Rabaça 2011: 156).

Such an ambitious task requires an historical understanding of the landscape of the *kûra* of Beja, specifically, how it was at the time when the *cubas* were constructed. This is an effort that orients us towards the past, to the period between the eleventh and fifteenth centuries. In order to fully grasp a territory and to unveil the mysteries of history we should not deem as unchangeable what has eventually changed (Duby 1992: 35). ‘That mighty sculptor, time’ (Yourcenar 1993) shapes and influences the landscape, darning, pulling, and replacing thread-by-thread, line-by-line, the ensemble of its elements. Therefore ancient maps have great significance, since the information they convey not only renders possible such a return to the past, but also enlightens their reader as to the gradual evolution of the landscape.

Concerning this link between the landscape and the buildings, Artur Goulart Borges’s study is an invaluable guide and an excellent starting point for my journey. In his study of the location of the *cubas* Goulart Borges proposes three typologies (Borges 1985: 200–1):

Type 1a	Advantageous strategic situation on semi-level upland terrain, which allows a broad panoramic field of vision and isolation.
Type 1b	Advantageous strategic situation on semi-level upland terrain (same as in type 1a) located in the peripheral areas of human settlement.
Type 1c	Advantageous strategic situation (same as in type 1a) located within human settlements.
Type 2	Advantageous strategic isolated location near roads, rivers or watchtowers.
Type 3a	Without any apparent advantageous strategic situation, located in the peripheral areas of human settlements.
Type 3b	Without any apparent advantageous strategic situation, located away from human settlements.

Table 1. Typologies according to Artur Goulart Borges (1985).

The emphasis Goulart Borges puts on Type 1 demonstrates the prominence given to the *cubas* located on places of high altitude, whereas the examples whose location is clearly connected to other features – such as roads, rivers, rocky areas, trees, or possible archaeological remains – were all classified as Type 2. The special importance conferred on high places can be pointed to as the cause for the doubts and contro-



São Pedro, Vila Nova da Baronia, Portugal.

versies surrounding the *cubas*, since those places can be interpreted as symbolic sites where the Earth is closer to Heaven, or can be seen as territorial boundary markers, or even as viewing stations for the surrounding landscape.

In my opinion, in order to fully understand the location of the *cubas* in the Alentejo peak district one must also analyse all the other examples located elsewhere. A closer examination of the latter cases show that these are located near natural features such as rocky areas or woods (Espírito Santo 1990: 11–12), natural routes of communication (such as rivers that run through the valleys on their way to the sea), near human paths, or even where nature is ‘sublime or blissful’ (*ibid.* 3).

After the initial analysis I am able to identify the existence of a connection between the buildings and the nature that surrounds them. Two centres of gravity can be denoted: human settlements and watercourses. Of the thirty-two cases analysed, twenty-six are located within the perimeter of a human settlement; four cases are located away from these settlements but near a watercourse; and two *cubas* still remain in an uncertain advantageous location that can probably be unveiled after a closer historical analysis.

This uncertainty, related to the elements that justify the choice of location of some of the *cubas* in this study, can be linked to transformations in the landscape which have occurred over the last five centuries: the Roman and Medieval roads are now modern highways; agriculture is an industrialised process;

religious beliefs and traditions have changed; the ancient cities, towns and villages have grown and expanded beyond their original boundaries, or the rural exodus has led to the near desertification or disappearance of these settlements. The sociological and political life of the region has changed, and consequently so has the landscape and the purpose of the *cubas*. Soon enough, these constructions have been rendered obsolete and abandoned.

Thus began the slow process of degradation, which left these buildings subject to theft and vandalism. The *cubas* that were incorporated into the new city limits; were suddenly surrounded by housing blocks, sports facilities, industrial infrastructures (such as São Sebastião in Ferreira do Alentejo), or schools (such as São Sebastião in Mértola).

After this initial analysis on how the *cubas* are connected to the surrounding landscape, I would like to propose my own set of typologies:

Type 1A	Proximity to a human settlement and high altitude.
Type 1B	Proximity to a human settlement and to a natural spring.
Type 1C	Proximity to a human settlement and to a trail.
Type 1D	Proximity to a human settlement and to rocky areas.
Type 1E	Proximity to a human settlement and the existence of a tree-rich area.
Type 2	Proximity to a body of water.
Type 3	Unknown location criteria.

Table 2. Proposed typologies according to the existing relation between the *cubas* and the surrounding landscape.

The first common trait I have noticed after analysing the data was that the *cubas* devoted to Saint Peter and Saint Michael are usually located in high places (Type 1A) and those devoted to Saint John tend to be found near water (Type 2). This observation may lead to the hypothesis that the locations of some *cubas* could be connected to the attributes of the saints to whom they are dedicated.

An excavation near Garvão village (in the district of Ourique) revealed a votive deposit belonging to an ancient sanctuary dating back to the fourth or fifth century BC. Thousands of pottery fragments were discovered on the site which made possible a precise dating of the sanctuary. Archaeologists also found in the dig small, engraved silver blades, whose illustrations seem to be pairs of eyes. This may point to the powers of the divine entity that was worshipped in the sanctuary centuries ago. The blades were probably offerings to the divinity asking for cures for eye



São Brás, Serpa, Portugal.

diseases. This hypothesis is supported by the similarity that the artifacts have with offerings made to Saint Lucy – patron of the blind and those with eye problems – and also by the fact that in Garvão, Saint Lucy was adopted as the region’s patron Saint (and

the village’s community is still very devoted to her; Boiça 1998: 8).

Cubes from Alentejo and domes from Arabia

As I have already stated at the beginning of this article, the completion of a thorough inventory of the individual features of every *cuba* under analysis is essential to this project, especially the data concerning metric measurements and structural characteristics, since they can shed some light over the period of original construction. Later, and with the objective of better clarifying the migratory direction of this type of construction I will compare the data collected and analysed with the *cubas* of Northern Africa.

The thirty-two *cubas* analysed share the same type of a centralised ground plan comprising a square, circular or octagonal shape, whose sides or diameter vary in length between 5 and 5.50 metres and ends in a dome made of hemispherical or conical shaped fireclay (Gonçalves 1964: 13).

The principal shape of these buildings is given by an axis drawn from the front door entrance (to the northwest) to the altar (to the southeast) having a 24 degree angle in relation to the horizontal line of reference. On the pavement, a tombstone marks this axis.

The *cubas* analysed have the following characteristics:

Exterior	The walls of the base (cube) are heavy and robust. The weight of the dome is supported either by four arches embedded in the walls of the cube, or by masonry or partition walls.
	The dome is made of fireclay and it is usually of circular shape.
	The dome can have several exterior coatings, in some cases being lime-plastered, in other cases being coated with roof tiles that may or may not be whitewashed (as in the case of São Brás, Serpa).
	The rainwater drainage is effected directly by the structure (Santa Luzia, Alvito) or it may occur by means of a platband which collects the water and conveys it through the gargoyles (São Vicente, Ferreira do Alentejo).
	The fenestration is turned towards the south, has a vertical orientation, and its width varies between 5 to 10 cm, height between 50 and 60 cm. The interior and exterior corners have 45 degree angles and an embrasure with no glass.
	The materials used in the stonework are marble (used in the doorway, doorposts and lintel) while the door itself is made of wooden planks arranged vertically.
	Some of the examples have four decorative merlons on the upper corners of the cube near the basis of the dome.
Interior	Four simple or angular tubes make the transition between the dome and the cube.
	The dome and the lateral walls are painted with frescos, usually with geometric shapes.
	The altar is usually a small niche.
	The floor is made of fireclay tile (30 x 30 cm)

Table 3. Structural characteristics of the *cubas* from the *kûra* of Beja.



Sidi Meer, Zarzis, Tunisia.

In Alentejo, the buildings that present a squared plan and a dome are popularly referred to as ‘*cuba* type constructions’. This is an interesting expression that not only denotes the typological idea that is popularly connected to the Arabic *cubas*, but also reveals that this type of construction was common in the region, an architectural reference known by many, one that has endured until today.

Presently, some of the *cubas* in the *kûra* of Beja are not independent structures. This means that throughout the centuries, many changes were made to the original structure, and some *cubas* even became part of a new construction. This is actually very significantly different from the *cubas* of Northern Africa, since there most of the *cubas* present in their original shapes.

In Beja ‘hermitages were built over the *Qubbas*’ (Varela Gomes 2001: 20; Creswell 1958: 50) and thus, they were ‘progressively integrated into broader architectural ensembles where the purpose of the space was converted, and so was its religious purpose’ (Carreteiro 1997: 12). The most common transformation

was to adapt the *cuba* and turn it into the presbytery and then to add the nave (where people attend mass) and the lobby’s narthex. In some cases, the original *cuba* is found alongside the hermitage, connected to the presbytery, in the same place where we would find the sacristy in a church. The most curious cases are those where there was added to the original *cuba* a lobby’s narthex. And in the even rarer cases when the *cuba* is located in a place where it is impossible to extend the building, a hermitage has been built as close as possible to the original construction.

This adaptation of the *cubas*, giving them new uses adapted to the needs of communities, was responsible for the inclusion into the architectural culture of Alentejo of this type of construction. The aforementioned popular expression ‘*cuba* type constructions’ is a reflection of this integration, which may also explain the existence of calvaries and other chapels with square-shaped or circular-shaped ground plans incorporating a dome and an masonry made with black shale – echoes of the ancient East, from old Mesopotamia to Christian Iberia that together create a culture full of mystery and beauty.

Having said that, how do we differentiate the original *cubas* from the ‘*cuba* type constructions’? An analysis of the metric data can help clarify this issue.

The plans of Santa Luzia, São Vicente, São Sixto and São Sebastião have the exact measurements of the so-called Portuguese Andalusian cubit, which may lead to the conclusion that these examples were built by Muslims or Moorish architects between the eleventh and twelfth centuries AD.



São Vicente, Ferreira do Alentejo, Portugal.

All the other *cubas* analysed have undefined measurements that do not comply with the parameters of Roman feet or the Portuguese Andalusian cubit or the Late Gothic cubit.

Nevertheless, other types of data (such as the one concerning building materials and location sites) can also form a valuable instrument in helping with the dating of these structures. Although this data has not yet been gathered, two papers – one by António Rei titled ‘O Castelo de Valongo. Estudos métrico-constructivo e histórico-espacial’ (‘The Valongo Castle: metric-constructive and historico-spatial studies’) published in 2000, and the other written by Sergei Chmelnizkij from 1990, entitled ‘The Mausoleum of Muhammad Bosharo’ – can help guide this investigation further in this respect, since they present two studies similar to the one I have been developing. The first study mentioned has dated the different construction phases of the Valongo Castle through a metric-constructive analysis of the building and through a study of the spelling and semantics of inscriptions found inside the castle. The second study uses a different method to establish the date of construction; Chmelnizkij has conducted a thorough analysis of the metric data and the structural characteristics of the building and reached his conclusion by means of an examination of the composition of the bricks, establishing evidence of the identity of their manufacturer, which then led to the precise date of construction.

Conclusions

After analysing the thirty-two *cubas* from the *kûra* of Beja that I had selected as my objects of study for this article – and even though definite answers to all the questions under debate are not yet possible – I am able to put forward some preliminary conclusions.

Firstly, all the identified *cubas* are located in spectacular rural settings. The proximity to administrative borders or other architectural sites is not a factor of major importance but apparently an afterthought, since the focus seems to be placed on the inspiring natural surroundings.

Secondly, it is becoming clear that human settlements, bodies of water, rocks, trees, trails, natural springs and high-altitude locations compose the main structure of the theoretical nature of the *cubas* since they not only define the features that influenced the decision over the choice of building sites, but also denote that the buildings are integrated into the popular religious imagination of those people. Thus, I may claim that the landscape has a very important sociological function since it is a representation of the sacred and of the relation between men and God.

Thirdly, after a thorough analysis of the architectural data collected during the course of this investigation, another conclusion can be drawn. The *cubas* are a specific type of architectural building project that was carried out over time, adapting to the local culture and eventually blending in with the culture of Alentejo, thus changing that popular culture and becoming a part of that region’s heritage.

Identification	Measurement (cm)	<i>pes</i>	PAC	PLGC
Santa Luzia, Alvito	612.9 x 610	20.7 x 20.6	11 x 11	9.3 x 9.2
São Vicente, Ferreira do Alentejo	502.7 x 552.4	17.0 x 18.7	9 x 10	7.6 x 8.3
São Sixto. Cuba	552.4 x 502.1	18.7 x 17	10 x 10	7.6 x 8.4
São Sebastião, Monsaraz	446.1 x 445.1	15 x 15.1	8 x 8	6.7 x 6.7
São João Bap., Monsaraz	545.8 x 614.4	18.5 x 20.8	9.8 x 11	8.3 x 9.3
Nossa Senhora da Natividade, Ferreira do Alentejo	529 x 545.2	17.9 x 18.4	9.5 x 9.8	8 x 8.26
São Bento, Monsaraz	488.7 x 513.6	16.5 x 17.3	8.8 x 9.3	7.4 x 7.8
São Brás, Serpa	427.4 x 425.2	14.5 x 14.4	7.7 x 7.7	6.5 x 6.4
São Pedro, Alvito	378.6 x 398.6	12.8 x 13.5	6.8 x 7.2	5.7 x 6.0
São Pedro, Villa Nova da Baronía	379.6 x 405.5	12.8 x 13.7	6.8 x 7.3	5.7 x 6.1

Table 4. Metric data of ten *cubas* from the *kûra* of Beja. *Pes* = Roman feet (1 *pes* = 29.57 cm); PAC = Portuguese Andalusian cubit (1 PAC = 55.5 cm); and PLGC = Portuguese Late Gothic cubit (1 *plgc* = 66 cm). The Muslim constructions were often made according to the metric unit known as Portuguese Andalusian cubit.

To conclude, I would like to present a final note: the study of Islamic architecture is essential to a portrayal of the history and cultural identity of the Iberian Peninsula. What was Hispanic culture and its landscape like before Tariq Ibn Ziyad conquered Iberia, on 1 April 711? Is it possible to imagine the Iberian Peninsula without the vital role of Andalusian culture and wealth? Indeed the contribution given by Muslim rulers to Iberian culture is priceless.

Despite the existence of more than three hundred *cubas* in the south of Portugal, there is little known about these buildings, which represent the most expressive presence of Andalusian culture in Iberian Peninsula. The *cubas* have been neglected for far too long. It is time to pay attention to these buildings and to give them the respect we owe them as symbols of Iberian-Islamic culture. If we can raise awareness in both the academic community and amongst the political decision-makers about the existence of these buildings and their importance for the understanding of Iberian-Islamic culture, hopefully this investigation can trigger political action that will lead to the development of policies which will ensure the preservation of this important part of our architectural and cultural heritage, as well as bringing back people to visit these sites, now derelict and abandoned, and once again we may see their whitewashed domes reigning over the hills. ■

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