THE ROCHELONGUE UNDERWATER SITE AND THE COASTAL MOBILITY IN WEST LANGUEDOC (FRANCE) DURING THE TRANSIT FROM LATE BRONZE AGE TO EARLY IRON AGE

EL YACIMIENTO SUBMARINO DE ROCHELONGUE Y LA MOVILIDAD COSTERA EN LANGUEDOC OCCIDENTAL (FRANCIA) DURANTE EL TRÁNSITO DE LA EDAD DEL BRONCE TARDÍA A LOS INICIOS DE LA EDAD DEL HIERRO

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ABSTRACT
This paper examines the material culture of the Rochelongue underwater site by providing key information to better understand traditional discussions about the site, such as its chronology, cultural attribution and nature. This paper, however, focuses on the concept of coastal mobility as an approach that provides access to a much broader assessment of the local population in terms of maritime cultural contact. Maritime interactions are vital in order to understand socio-economic changes and processes in culture contact and colonial settings in western Languedoc, which occurred during the seventh and sixth centuries B.C. The direct network that shows the Rochelongue underwater site by studying the distribution of metallic objects from the assemblage allows the discussion about the necessity of further investigation in the analysis of local coastal mobility to better understand connectivity and cultural encounters during Late Bronze Age–Early Iron Age in Western Mediterranean.

KEY WORDS: Mobility, maritime connectivity, underwater archaeology, shipwreck, cultural contact, coastal archaeology, seascape.

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RESUMEN
Este artículo examina la cultura material asociada al yacimiento subacuático de Rochelongue aportando información relevante para entender mejor la discusión tradicional existente sobre la cronología, la adscripción cultural y la propia naturaleza del yacimiento. Este artículo, sin embargo, se centra en una nueva perspectiva interpretativa, utilizando el concepto de movilidad costera como contexto que nos ayuda a realizar un examen mucho más amplio de la relevancia del yacimiento y la población local en términos de contactos culturales. Las interacciones marítimas asociadas al yacimiento son claves para entender los cambios socioeconómicos y los encuentros entre las poblaciones del Oeste del Languedoc, en un contexto de inicio de la presencia de culturas mediterráneas (griegos, fenicios y etruscos) en la costa del Sur de Francia, que se produce durante los siglos séptimo y sexto a.C. Las redes que se identifican en torno al yacimiento de Rochelongue en base a la distribución de su cargamento de objetos metálicos, permite abrir una discusión en la necesidad de ampliar los estudios sobre las capacidades de la movilidad costera de poblaciones indígenas durante el proceso de colonización, para un mejor entendimiento de la conectividad y los encuentros culturales sucedidos entre el Bronce final y el Hierro I en el Mediterráneo Occidental.

PALABRAS CLAVE: Movilidad, conectividad marítima, arqueología subacuática, pecio, interacción cultural, arqueología costera.
Introduction: mobility as phenomena.

Prior to the 1980s, mobility was rarely used as a broad theoretical construct for studying Mediterranean immigration (colonisation), cultural encounters and their social ramifications\(^2\). Although research was indicating that the movement of populations in the Bronze Age was important and relevant to understanding processes, such as Greek expansion\(^3\), mobility was treated merely as long-distance movement rather than as a socially structured phenomenon\(^4\). In recent decades, however, the question of mobility of individuals in ancient societies has received greater attention. Osborne\(^5\), for example, has stressed the need to study its forms and causes, and warns that historians of antiquity should not underestimate the degree of mobility of ancient populations. He also emphasised the relative character of distance in the study of migratory phenomena. It is important, therefore, to take into account how past populations conceived of space and not just distance in an absolute sense\(^6\).

Thus, mobility may be conceived as the mechanism that produces a degree of connectivity, which, using Horden and Purcell’s\(^7\) approach, is the various ways in which ‘micro-regions cohere, both internally and also one with another’. More broadly, connectivity is the mobility of people and goods, the means of

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\(^{6}\) C. Moatti, “Mobilités et circulations…”, 41.

travel and communication and any resultant social exchange. From the perspective of western Mediterranean encounters, chain migration (chain mobility)—communities migrating one after another over an extended period of time and settling down together—is an important mechanism for the creation of patterns of connectivity that directly affect the region of settlement. Socially, material culture allows us to explore the relationship between mobility patterns and contact situations. Material culture, or materiality, can help us address the diversity and scale of mobility and connectivity between micro-regions in coastal Languedoc (Figure 1) by examining imports (what was imported and from where), imitations (as indicators of value and meaning) and numbers of such (as indicators of intensity of interaction). Connectivity and mobility also are pertinent to discussions concerning maritime contexts and have been used to create a theoretical framework for investigating past Mediterranean societies and the formation of identity through subsequent cultural interactions. Following this, maritime connectivity (via merchants, mariners and local traders) determines the level of relationship between different coastal or island communities, as well as the intensity of these connections. Within the context of this paper, mobility can be understand as maritime transhumance, which constantly

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9 P. VAN DOMMELEN, “Colonialism and Migration…”, 404.
12 A.B. KNAPP, S. DEMESTICHA, Mediterranean connections…”, 30.
disrupts the stability of locals, combining elements of sedentary life with phases of mobility. Studies of the Rochelounge site traditionally have focused on the chronologies and cultural attributes of the remains, as well as the question of what type of site it represents—shipwreck or ritual deposit. As yet, there is no general consensus on these issues. Rather than focusing on site characterisation, which would need a more extensive study. This paper introduces a new approach into the Rochelounge metallic finds, using them as an evidence of coastal mobility.

**Societies moving to the coast.**

It is difficult to understand the Late Bronze Age (LBA)—Early Iron Age (EIA) transition for west Languedoc (France) in terms of population and dispersion due to the scarcity of information. The socio-economic model traditionally applied to the LBA in southwestern France is one of agro-pastoral subsistence augmented with partial exploitation of coastal resources. Settlements are dispersed and are occupied during short and variable episodes. This semi-nomadic model reveals a tribal characteristic that contrasts with an emerging new structure in the EIA, where greater social hierarchy develops with the

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15 This underwater site its subject of study of the author dissertation submitted in February 2020, that offer an insight analysis of the assemblage.

appearance of "big men"\textsuperscript{17}. On the other hand, the model is at odds with certain settlements of the LBA that show signs of proto-urbanisation. Sites such as Ruscino, Carsac and Mailhac in Roussillon and west Languedoc, or Sextantio, Roque-de-Viou and Le Marduel in east Languedoc, led Eric Gailledrat\textsuperscript{18} to argue that the semi-nomadic model of local societies is not functional. Gailledrat\textsuperscript{19}, on the other hand, argues for consideration of some kind of previous social structure where the aristocracy already were present, only not as evident as in later periods.

\textsuperscript{17} D. GARCIA, \textit{La Celtique méditerranéenne...}, 49.
\textsuperscript{19} E. GAILLEDRAIT, “Tierra, fuego y agua... ”, 106.

“The Rochelongue underwater site and the coastal...”
Figure 1. Map of coastal Languedoc-Roussillon showing sites and areas mentioned in the text and the division between east and west Languedoc (pink dashed line) (after Ugolini 2018:232 fig. 1): 1. Necropolis de Bellevue (Canet, Pyrénées-Orientales); 2. Necropolis de Négabous (Perpignan, Pyrénées-Orientales); 3. Ruscino (Château-Roussillon, Pyrénées-Orientales); 4. Le Port 2 (Salses-le-Château, Pyrénées-Orientales); 5. Pech Maho (Sigean, Aude); 6. Montlaurès (Narbonne, Aude); 7. Cayla II (Mailhac, Aude); 8. Necropolis du Grand Bassin I (Mailhac, Aude); 9. Necropolis de La Courondelle (Béziers, Hérault); 10. La Monédière (Bessan, Hérault); 11. Necropolis du Peyrou (Agde, Hérault); 12. Necropolis du Bousquet (Agde, Hérault); 13. Necropolis de La Cartoule (Servian, Hérault); 14. Lattes (Hérault); 15. Grotte Suspendue (Collias, Sainte-Anastasie, Gard); 16. Région nîmoise (Gard); 17. Necropolis de L’Agrédo (Roquefort-Corbières, Aude); 18. Grotte de Buffens (Caunes-Minervois, Aude).
In the specific case of the Hérault Basin, the formation of settlements is not well known, especially during the LBA. The short list of Bronze Age coastal habitation sites in the area include La Motte, at the mouth of the Hérault River\textsuperscript{20}, and La Fangade, by Lake Thau\textsuperscript{21}, which were characterised by pile-dwellings. During the transition from the LBA to the EIA, there is a reported increase in the number of sites\textsuperscript{22}, most being located in the southern part of the Hérault basin\textsuperscript{23}. In the seventh century B.C., the main development is the occupation of the lower coastal plain, although this is evidenced more by necropoleis than by actual habitation sites\textsuperscript{24}. The two most important necropoleis were Peyrou, in Agde\textsuperscript{25}, and Saint-Julien, in Pezenas\textsuperscript{26}, and together they represent the stability of settlements in the Hérault Valley. Recent reconstructions of the paleo-landscape of this area are revealing that it was much more inundated than it is now\textsuperscript{27}. During the LBA-EIA, the present...
mouth of the Hérault River was a paleo-bay, which, along with the river, provided an ideal point of convergence for establishing commercial contacts. This is illustrated by the discovery of vases of Greek and Phoenician manufacture, the oldest of these types in France\(^\text{28}\). Finally, the first half of the sixth century B.C. saw a significant increase in occupation sites with increased density, with a remarkable concentration of population in the low and middle course of the valley. At the end of the EIA, the so-called Oppida appears. These are permanent and sometimes fortified settlements that testify to the stability of some communities and their control of surrounding territory and secondary minor sites\(^\text{29}\).

It is difficult to reconstruct the social organisation of the communities established in the Hérault/Agde territory during this time due to the relatively poor archaeological information available. Burials associated with habitats are homogeneous, suggesting a relatively equal social treatment of individuals at death\(^\text{30}\). Nevertheless, there are some distinctive signs of social complexity, and two types of burials are recognised: circular tombs, representing the majority, and rectangular ones better furnished with artefacts. For male burials, riding equipment and the weapons are identified as symbol of power, whereas female graves of special status may result from the combination of

human occupation of the lower Hérault River, southern France”. *Quaternary Science Reviews* 222/1, 2019, 16.


\(^{29}\) E. GAILLEDRAIT, “Tierra, fuego y agua... ”, 106; J. GASCO, “Geographie regionale de l'age du bronze en Languedoc”, *Quaderns de prehistòria i arqueologia de Castelló* 29, 2011, 135-151.

different roles within the society\textsuperscript{31}. The group associated with these last burial typologies comprise a small local elite. Differences in the variations of funerary rituals reveal a west Languedoc divided into small tribal entities, which can be subdivided into two large groups. One stretches from Carcassone to the middle valley of the river Orb, and the second is centred around the two necropolises of the Agde region at Peyrou and Bousquet\textsuperscript{32}. From the LBA to the EIA, the Languedoc territory experienced a social evolution from more egalitarian societies to the entrenchment of aristocracies. These social elites benefited from the circulation of people and objects, which, throughout the Bronze Age, traditionally was linked to fluvial and terrestrial communication routes to the Atlantic, Iberian Peninsula and northern Italy, and which ultimately accelerated maritime trade with the broader Mediterranean world\textsuperscript{33}.

Colonial trade and long-distance exchange relations were cemented at the end of the EIA, with local elites highly influenced by Phoenician, Greek and Etruscan cultural practices. Consequently, these local societies experienced transformations in social hierarchy and the system for controlling and managing material resources. Within the context of this paper, this can be understood as the convergence of symbiotic interests of foreign groups in access to mineral and other natural resources and of local privileged groups in prestige goods that enhance and

\textsuperscript{31} S. \textsc{Lenorzer}, “Pratiques funéraires du Bronze final IIIb au premier âge du Fer en Languedoc occidental et Midi-Pyrénées: approche archéo-anthropologique des nécropoles à incinération”, Bulletin de la Société préhistorique française 103\textsuperscript{3}/3, 2006, 622-625.
\textsuperscript{32} S. \textsc{Verger}, L. \textsc{Pernet}, Une Odyssée gauloise: parures de femmes à l’origine des premiers échanges entre la Grèce et la Gaule, Éditions Errance, Montpellier 2013.
\textsuperscript{33} D. \textsc{Garcia}, Entre Ibères et Ligures: Lodévès et moyenne vallée de l’Hérault protohistoriques, CNRS Éditions, Paris 1993; R. \textsc{Gráells}, S. \textsc{Sarda}, “Entre carneros, palomas y ciervos: la asimilación de estímulos mediterráneos a través de la Toréutica. El ejemplo del noreste de la Península ibérica durante el s. VI a.C.”, Rivista di Studi Liguri 71, 2007, 5-28; R. \textsc{Gráells}, Las tumbas con importaciones y la recepción del Mediterráneo en el nordeste de la Península Ibérica (siglos VII-VI a.C), Departamento de Arqueología, Universitat de Lleida, Lleida 2010; S. \textsc{Verger}, L. \textsc{Pernet}, Une Odyssée gauloise: parures de femmes à l’origine des premiers échanges entre la Grèce et la Gaule, Éditions Errance, Montpellier 2013, 54.

“The Rochelongue underwater site and the coastal…”
maintain their social distinction. These associations, whereby locals adopt foreign customs that then co-exist with traditional practices, have a complex interpretation. Furthermore, the existence of previous local and long-distance trade circuits and the potential active role of local communities allow for discussion about the nature of these first encounters in what it’s been defined by some authors as the liminal zone\textsuperscript{34}.

These encounters, however, could not have happened without a conducive social framework\textsuperscript{35}. This framework should be understood as the ability of local groups to organise or even guarantee the material conditions for exchange, to engage existing exchange networks and perhaps to mobilise productive forces that, before then, were oriented only to local needs. Taking all of this into account, the phenomenon of ‘Launacien’ metal hoards is fundamental to identifying the scope of these contacts\textsuperscript{36}.

**Mobility of metal towards the coast. Launac and the Launacien.**

The French engineer, geologist and anthropologist Paul Cazalis de Fondouce was the first to give the name Launacien to this local metallurgical tradition. In 1897, a group of farmers from Launac, at Fabrègues (Hérault), found a group of bronze objects buried in the ground. The landowner offered the pieces to the Archaeological Society of Montpellier. The entire


\textsuperscript{35} E. GAILLEDRAIT, “Tierra, fuego y agua... ”, 108; E. GAILLEDRAIT, *Espaces coloniaux...*

collection was the subject of a publication in 1900 by de Fondouce, who described the discovery as a ‘smelting hoard’\textsuperscript{37}.

This assemblage from Launac included socketed axes, triangular scrapers, incised bracelets, and socketed hammers, extending from a long tradition. The Launacien phenomenon is defined by a series of large deposits discovered in the region of Aude and Hérault\textsuperscript{38}. Among these deposits, the assemblage recovered from the Rochelouge underwater site, at a depth of 8 m, near Cap d’Agde, is one of the most representative. The assemblage shows a much greater quantity of artefacts (Figure 2) compared to those from terrestrial contexts. The Launac deposit, for instance, contains 678 artefacts, compared to Rochelouge’s 4,640 (almost seven times as many). Furthermore, the Rochelouge site is significant because of its large number of copper ingots\textsuperscript{39}, including 119 complete ingots, 239 partial ingots and 2,961 fragments of smelted copper.

\textsuperscript{37} P. CAZALIS DE FONDouce, “La cachette de fondeur de Launac”, Mémoires de la Société Archéologique de Montpellier 2, 1900, 171–172.
\textsuperscript{38} J. Guilaine, L. Carozza, D. García, J. Gasco, T. Janin, B. Mille, Launac et le Launacien…, 16–17.

“The Rochelouge underwater site and the coastal…”
Figure 2. Example of most representative artefact’s typology from the Rochelongue site. Ornaments (1 buckle belt and 2 bracelet); Weapons (3 sword and 4 spearhead) and semi-raw metal (5 copper ingot). (Source author).

The Launacien appellative applied to bronze hoards typically implied a recycling purpose linked to an indigenous culture of primarily continental inclination\(^{40}\). With the discovery of the underwater site at Rochelongue in 1964, the origin of

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copper ingots in circulation and the destination of certain pieces found in this archaeological context were called into question. Subsequently, a wider Mediterranean perspective started to emerge. The concentration of Launacien hoards in central and western Languedoc, between Mauguio and Corbières, should not negate the possible role played by these metal accumulations in the context of Mediterranean relations in the eighth and seventh centuries B.C. The idea of metal collections obtained by locals for trading with Etruscans was launched as a hypothesis without corresponding evidence. In parallel, the presence of Etruscan, Greek and Phoenician ceramics, whether original or imitation, in indigenous funerary and habitation contexts preceding the foundation of Massalia leaves open the questions of chronology and impact of contact between the newcomers and local populations. According to Dominique Garcia, the Launacien deposits represent ‘an original economic phenomenon that consisted of the development of indigenous metallurgical production for exchange purposes’. Currently, the term Launacien is used to identify the general cultural context of bronze hoards found from this era and composed of local products and foreign elements of Continental, Atlantic or Mediterranean origin. During the Archaic period, the so-called Launacien peoples of the west Languedoc coast experienced increasing contact with Mediterranean cultures from the east and

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41 J. Guilaine, *La France d’avant…*

“The Rochelongue underwater site and the coastal…”
an influx of foreign products arriving by ship\textsuperscript{46}. According to historical accounts, Phocaean Greeks established the colony of Massalia (Marseille) in 600 B.C., which greatly accelerated maritime trade and expanded cultural commingling across southern France and the surrounding regions\textsuperscript{47}. More recently, some scholars however, have put forward contacts with Greek colonies in Sicily and southern Italy as a probable rationale to this metal circulation\textsuperscript{48}.

**Rochelongue Underwater site. A reflection of coastal mobility.**

This section of the French coast close linked to Launacien offers good natural harbourages, especially in the estuaries, which allowed communication with the interior and access to its mineral resources—not only those close by, such as at Montaigne Noir and Cabriérès, but also those far distant, such as in Brittany. The region also sits strategically between Catalunya and Provence, with its ready access to northern Italy. These two intersections, combined with an accessible coast open to the Mediterranean, made this region a natural area for cross-cultural networking with a high range of cultural diversity\textsuperscript{49}. An important number of shipwrecks have been found along this coast from a variety of...

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chronology. The underwater site at Rochelongue was discovered in 1964 by André Bouscaras, a dedicated diver and shipwreck enthusiast responsible for locating many underwater sites (especially shipwrecks) in the waters of west Languedoc. The site was subjected to a number of archaeological investigations between 1964 and 1968, and again in 1970. The underwater archaeological site is located on the Rochelongue reef off Cap d’Agde, geologically formed by a basaltic outcrop and medium size blocks. This basaltic geology is the result of a lava flow 740,000 years ago from the former Mount St. Loup volcano (Figure 3, feature 2). The reef runs southward and is surrounded by patches of Posidonia seagrass and sand. The reef extends into an area known as ‘les mattes’ and then splits into two branches. One branch turns to the east, towards the islet of Brescou, taking the form of a line of rocks bordering a large area of sand. The second branch heads westward for some 2 km, in the direction of the mouth of the river Herault, before giving way to sand. The reef is most visible from shore in two areas: off the so-called Pointe de Notre Dame, some 400 m from the mouth of the Herault; and off the Pointe de Rochelongue, which directly faces the underwater site. Water depth can change abruptly along this shore due to the topography of the seabed, and especially the reef. In some areas, the reef juts up abruptly more than 1.5 m from the bottom, which makes the area dangerous for coastal navigation. Ships passing these shores also are at risk of inclement weather.


“The Rochelongue underwater site and the coastal...”
Figure 3. Panoramic view of Cap d’Agde, looking north: (1) Herault River mouth; (2) Saint-Loup Hill; and (3) Rochelongue reef (photograph by Javier Rodriguez).

As mentioned, interpretation of Rochelongue still in discussion, the idea of a shipwreck it is hard to proof because the absence of any wooden hull remains (even any trace of such), rope, rigging elements or other equipment typically associated with water craft that would provide definitive evidence of a boat or ship. The complete assemblage amounts to a total weight of approximately 1.3 tons, a rather low tonnage in comparison to that of known Mediterranean wrecks of the seventh and sixth centuries B.C., which range from 2–4 tons up to 30 tons. If indeed the site is that of a shipwreck, then the vessel type we most likely are dealing with is a small riverine boat with limited coastal capability, rather than a true sea-going ship. On the other hand the interpretation of the Rochelongue material as a votive offering has been argued mainly by Jean Gascó, who has explained in depth the supplicatory nature of the deposit. This interpretation is in line with other sites that shows evidences of metallic artefacts submerged in the coastal or riverine environment and interpreted as votive. This is the case for sites dated in Bronze Age as the ones found at Great Britain (Samson 2006) or Spain (Priego 1995).


Although many scholars still are reluctant to accept this type of reading, at present it constitutes one of the principal alternatives to the shipwreck interpretation. Some obvious questions arise upon subscribing to the votive hypothesis: How and when did the deposition of all these objects happen? Does the assemblage represent one or several deposition episodes? How and why was the location selected? Were the objects thrown from a boat, or was the deposit the result of a wrecking (capsizing/swamping) event; alternatively, was the deposition made from a wooden platform or structure from shore? Was the deposit location marked in some way to ensure that subsequent deposition events would occur at the same spot? The distance from the site to the paleo-coast, even taking into account a 2 m rise in sea-level change, proposed for this coast still would have been about 500 m, making the possibility that the material was deposited ritually (i.e., thrown) into the sea from land unlikely. In last instance any type of boat would be used for this ritual.

Whether one theory or another is accepted, we can affirm that both arguments fails not considering the skills of indigenous population in water transportation and marine practices in the surrounding coastal and fluvial landscape. Local societies of the LBA–EIA typically were embedded in riverine environments, as attested by the eighth-century B.C. settlement at La Motte (Agde), situated on the edge of a palaeo-bay near the mouth of the Hérault River, but now submerged under the river. Similarly, it is not coincidental that a large number of metal deposits appear in


“The Rochelongue underwater site and the coastal…”
close relation to watercourses\(^{56}\), especially given the notion in European Bronze Age cosmology of rivers as boundaries between different spheres or worlds\(^{57}\). In light of this, such communities almost certainly would have used watercraft for transport and trading along the network of rivers (and possibly the adjoining coastlines), utilising natural features within this environment for harbourages. Indigenous watercrafts are no infrequent in France where excavations at Sanguinet, Bordeaux, for example, have yielded at least nine specimens dated to the LBA/EIA\(^{58}\). Furthermore, the near ‘invisibility’ of prehistoric and proto-historic harbours (anthropogenic structures) in the archaeological record is easily explained. In her study of Late Bronze Age harbours in the Aegean, for which there are scant remains, Loizou\(^{59}\) argued that they must be viewed in the context of the dynamic seascape and considered as active cultural landscapes with socio-political implications. An analogous reading can be applied to the Rochelongue site located in a dynamic geographic and social space. The surrounding topography is full of natural markers (Figure 3): the rocky platform of Pointe Rochelongue, the Herault estuary to the west and the promontory of Cap d’Agde to the east; Mont Saint-Loup and the small islet of Brescou lying just off the coast\(^{60}\). All of

\(^{56}\) B. DEDET, G. MARCHAND, “Eau, arme et territoire aux Âges du Bronze final et du Fer en Languedoc et en Provence”, Ansonius 1, 2015, 591-620; V. ROPIO, Peuplement et circulation dans les bassins fluviaux du Languedoc occidental, du Roussillon et de l’Ampourdan du IXe s. au début du IIe s. av. n. è, Université de Franche-Comté, Besançon 2007, 144.


these features would have served as navigational landmarks for riverine, coastal as well as terrestrial travel, and the estuary additionally would have offered shelter and points of debarkation for boats or ships.

Ultimately, and from a seascape perspective, the distinction between ritual and commercial activity may be a moot point, as ‘people in traditional societies in coastal areas, as elsewhere, would not have separated ritual and habitual actions’\(^{61}\). Thus, commercial dealings may have been consummated with ritual offerings or deposition representative of the materials being exchanged—in this case, raw and recycled metals on the one hand and metal handicraft works on the other. In this sense it can be argued that the assemblage of Rochelongue underwater site, it is representative of the coastal mobility of the indigenous populations of southern France in the transition of LBA–EIA in response to the increase presence of foreign Mediterranean cultures, marking the beginning new commercial dynamics.

It is not surprising that a society that traditionally lived by the coast or a river, as evidenced by the site of La Motte\(^{62}\), would develop a close relationship with its environment in terms of transportation, trade and exploitation of resources\(^{63}\). The Launecien metals following the course of the rivers and arriving to the coast as well as Rochelongue as argued before, seems to complete a circulation of materials between Catalonia and southwestern France that expand to southern Italy and even Greece\(^{64}\) following the coast (Figure 4). Thus, the flow of

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\(^{63}\) R. Graells, *Las tumbas con importaciones...*

\(^{64}\) R. Graells, “De Italia al Bajo...”, 728; S. Verger “Des objets gaulois dans les sanctuaires archaïques de Grèce, de Sicile et d’Italie.”, *Comptes rendus des séances de...*
materials and influences circulated bi-directionally between Italy and the Iberian Peninsula via southern France, which seems to have acted as a bridge between the two regions\textsuperscript{65}.

Figure 4. Locations of other archaeological sites where Launacien artefact types represented in the Rochelongue assemblage (Red star) have been found. Cian marks indicates Greek context (map by author, based on data from Guilaine et al. 2017).

Conclusion.

Maritime activity in the western Mediterranean experienced significant growth from the late eighth through to the sixth centuries B.C. This growth impacted the mobility of various agents, both local and foreign, and resulted in direct interactions

\textsuperscript{65} R. Graells, “De Italia al Bajo…”, 733.
between disparate cultures and subsequent social, economic and cultural upheavals. The underwater archaeological site of Rochelongue, discussed in this paper produced a unique material assemblage from this period. Dated to the end of the seventh or first quarter of the sixth centuries B.C., the site reveals a short, but relevant, episode provides an opportunity to analyse the capacity of mobility of local agents in collecting and moving metal goods across the rivers and the coast to service foreign demands. It is representative of a possible framework of local groups to organise or even guarantee the material conditions for exchange, and furthermore a necessary engagement with existing exchange networks. This interpretative vision of the Rochelongue site provides a fresh perspective for future studies on the nautical capabilities of indigenous populations before and after the arrival of seafaring eastern Mediterranean cultures.

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“The Rochelongue underwater site and the coastal…”
Bibliography


G. BORJA, C. TOURETTE, La Pointe de Rochelongue ‘L’épave des bronzes’ (Agde, hérault), DRASSM, Marseille 2011 (unpublished report)

P. CAZALIS DE FONDOUCE, “La cachette de fondeur de Launac”, Mémoires de la Société Archéologique de Montpellier 2, 1900, 171-208


B. DEDET, G. MARCHAND, “Eau, arme et territoire aux Âges du Bronze final et du Fer en Languedoc et en Provence”, Ausonius 1, 2015, 591-620

J.A.G. DECHELETTE, Manuel d’archéologie préhistorique celtique et gallo-romaine, Picard et fils, Paris 1908


M.I. Finley, The ancient economy, University of California Press, Los Angeles 1973


E. Gailledrat, Espaces coloniaux et indigènes sur les rivages d’Extrême-Ocident méditerranéen (Xe-IIIe s. avant notre ère), Pulm, Montpellier 2014

D. García, Entre Ibères et Ligures: Lodévois et moyenne vallée de l'Hérault protohistoriques, CNRS Éditions, Paris 1993


D. García, La Celtique méditerranéenne: Habitats et sociétés en Languedoc et en Provence du VIIIe au IIe siècle avant JC., Editions Errance, Paris 2004


J. Gasco, “Geographie regionale de l'age du bronze en Languedoc”, Quaderns de prehistòria i arqueologia de Castelló 29, 2011, 135-151


J. Giry, “La nécropole préromaine de St-Julien (Cne de Pézenas, Hérault)”, Rivista di Studi Liguri 31, 1965, 117-235

“The Rochelongue underwater site and the coastal…”

R. GRAELLS, Las tumbas con importaciones y la recepción del Mediterráneo en el nordeste de la Península Ibérica (siglos VII-VI a.C.), Departamento de Arqueología, Universitat de Lleida, Lleida 2010

R. GRAELLS, “De Italia al Bajo Aragón: la dinámica de intercambios indígena entre el s. vii y vi aC.”, Mobilité des hommes, diffusion des idées, circulation des biens dans l'espace européen à l’âge du Fer; Actes du XXVe Colloque de l'AFEAF, Bordeaux 2013, 727-736


J. GUILAINE, L’âge du Bronze en Languedoc occidental, Roussillon, Ariège, Klincksieck, Paris 1972


UNIVERSIDAD DE CÁDIZ

UNIVERSITÉ LAVAL


L. LONG, Les épaves protohistoriques de la côte gauloise et de la Corse:(Vle–IIIe siècles avant J.C.). La circulació d’àmfores al Mediterrani occidental durant la Protobistoria (segles VIII–III aC): aspectes quantitatiu i anàlisi de continguts,

“The Rochelongue underwater site and the coastal…”
Departament de Prehistòria, Història Antiga i Arqueologia, Calafell 2004


E. LOIZOU, “Late Bronze Age harbours in the Aegean. Towards another theoretical approach”, *Skylis* 16, 2016, 118-125


A. NICKELS, “Essai sur le développement topographique de la nécropole protohistorique de Pézenas (Hérault)”, *Gallia* 47, 1990, 1-27


V. ROPIOT, *Peuplement et circulation dans les bassins fluviaux du Languedoc occidental, du Roussillon et de l’Ampourdan du IXe s. au début du IIe s. av. n. è*, Université de Franche-Comté, Besançon 2007

UNIVERSIDAD DE CÁDIZ

UNIVERSITÉ LAVAL


O. TAFFANEL, J. TAFFANEL, “Deux tombes de cavaliers du Ier Âge du Fer à Mailhac (Aude)”, *Gallia* 20/1, 1962, 3-32

C. TOURETTE, *Étude de synthèse à la Pointe de Rochelongue, Agde (Hérault)*, DRASSM, Marseille 2006 (unpublished report)


S. VERGER, L. PERNET, *Une Odyssée gauloise: parures de femmes à l'origine des premiers échanges entre la Grèce et la Gaule*, Éditions Errance, Montpellier 2013

J. VIVES-FERRÁNDIZ, “Mediterranean Networks and material connections: a view from eastern Iberia and The Balearic Islands (12th–8th Centuries BC)”, A. BABB (ed.), *The Mediterranean Mirror: Cultural

“The Rochelongue underwater site and the coastal…”
Contacts in the Mediterranean Sea Between 1200 and 750 BC. Schnell & Steiner GmbH., Verlag des Römisch-Germanischen Zentralmuseums, Mainz 2015, 161–175