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Thai-Malay Peninsula and South China Sea networks (500 BC–AD 200), based on a reappraisal of “Sa Huynh-Kalanay”-related ceramics

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ABSTRACT

From 500 BC to AD 200, cultural exchanges in the South China Sea were emphasized by the expansion and intensification of long-distance interaction networks. Various archaeological objects, exchanged or imitated, provide evidence of multiple contacts. Interactions in relation to ceramics are attested through the so-called Sa Huynh-Kalanay-related ceramics, whose decorations allow significant stylistic comparisons between sites of the Thai-Malay Peninsula, Vietnam, the Philippines, Borneo and Eastern Indonesia. This paper aims to explore the various modes of circulation of Sa Huynh-Kalanay-related pottery and to define whether they involved the movement of goods and/or of people such as merchants or craftsmen. The analysis focuses on pottery assemblages from fifteen sites recently excavated by the Thai-French archaeological mission in the Thai-Malay Peninsula. The reconstruction of various chaînes opératoires and the identification of pottery traditions reveal some Sa Huynh-Kalanay-related pottery were produced by local groups while others have an exogenous origin. Results highlight the socio-cultural and political complexity of groups in line with the production, circulation, and use of the pottery.

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1. Introduction

In mainland Southeast Asia, the period from 500 BC to AD 200 corresponds to deep socio-cultural and political transformations characterized by the emergence of early forms of political centralization and urbanism, as shown at Khao Sam Kaeo in peninsular Thailand (Bellina and Silapanth, 2006; Bellina et al., 2014; Bellina, in press) and Co Loa in northern Vietnam (Kim, 2013). The early historic period, by the beginning of the 1st millennium AD, witnesses the development of cities and states, such as the kingdom of Funan, in southern Vietnam and Cambodia (Stark, 2006; Bourdonneau, 2007; Manguin, 2009). As a corollary to these evolutions, long distance-exchange routes usually named as “Maritime Silk Roads” developed, thus connecting coastal populations surrounding the South China Sea and the Indian Ocean. For the early historical period, and more recently for the late prehistoric period, Southeast Asia exchanges with South Asia and the West have been well investigated, especially to document the Indianisation process (to cite only a few recent publications: Bellina, 2007, 2014; Bellina and Glover, 2004; Manguin et al., 2011; Smith, 1999). The external impetus on Southeast Asian cultural evolution has been a matter of intensive debate, which finally ended during the eighties with mixed paradigms conciliating both local creativity and dynamism and external stimulation. However, until recently, very little was known on Maritime Southeast Asian populations’ socio-political and economic developments when the region became part of the Maritime Silk roads chain of networks. In the absence of texts, long distance interactions are attested by the growing circulation of valuable goods in the South China Sea networks, characterised by elaborate and exotic technology and styles previously unknown in the region. Those include glass beads and dishes (Lankton et al., 2006; Dussubieux and Gratuze, 2010; Borell, 2012), nephrite and carnelian ornaments (Hung et al., 2006; Bellina, 2007, 2014; Hung and Bellwood, 2010; Hung and Iizuka, 2013; Hung et al., 2013) as well as various metal artefacts such as gold ornaments (Pryce et al., 2008), “Dong Son” bronze drums (Calo, 2009; Pryce et al., 2014), high-tin bronze artefacts (Pryce et al., 2008; Reinecke et al., 2009; Pryce et al., 2014) and Han
Pottery was also moving throughout the networks. Some arrived from neighbouring regions, South Asia (Bouvet, 2012) and from Han-China (Favereau, 2015; Péronnet et al., forthcoming). In Southeast Asia and the Pacific, it has been thought that regional exchange is indicated by the so-called “Sa Huynh-Kalanay” type of pottery. The expression Sa Huynh-Kalanay was coined by Wilhelm G. Solheim II to express the striking similarities in decorative motifs between Metal Age ceramics from the site of Kalanay in central Philippines and from the site of Sa Huynh in central Vietnam (Solheim, 1964a). The Sa Huynh-Kalanay decorative style is characterized by diagnostic designs, such as scallop designs on carination and rims, friezes of paired diagonals, sequences of alternating triangles and horizontal “S”, interlocking triangles and rectangles, and repeated scrolls or waves (Solheim, 1964b, p. 13). Subsequently, such decorations have been reported elsewhere in Vietnam, the Philippines, peninsular Thailand, Indonesia, Borneo and Cambodia, and the term Sa Huynh-Kalanay was re-used to underline the stylistic link between the various sites (Fig. 1). For Solheim, the Sa Huynh-Kalanay decorated pottery provided at the beginning evidence on the origin and spread of Malayo-Polynesian-speakers groups (Solheim, 1964a, p. 96). Later, it constituted the grounds to explain zones of favoured cultural exchange, the basis of his “Nusantao Maritime Trading and Exchange Network” hypothesis, an alternative to the migration theory developed by Bellwood (1997). Solheim (2006) used it to explain the formation of shared maritime-oriented cultural traits amongst Southeast Asian and Pacific populations, including Austronesian- and non-Austronesian-speakers. To Solheim, shared elements of culture were spread in all directions in the Asia-Pacific region through some sort of trading, and not by migrations, which he thought would have entailed a unidirectional spread (2006, p. 77). Sa Huynh-Kalanay pottery is associated with several major issues of Maritime Southeast Asian and more globally, Asian prehistoric developments. Because these critical issues are at stake, a reappraisal of ceramics bearing this style appears necessary now that some corpora with well dated contexts have recently become available. The Sa Huynh-Kalanay term has limitations, as it has been developed on the basis of morpho-stylistic similarities, which not only overlooks ceramic diversity but also does not necessarily reflect the reality of interactions.

This research wishes to look beyond the “family resemblance” of these ceramics by investigating their production and distribution networks. What did the exchange consist of? Were the Sa Huynh-Kalanay decorated potteries really exchanged or imitated? Were potters moving from place to place? In other words, what really circulated: pots, technologies and/or styles? If technologies or styles, who transmitted them? Did they come as part of big or small groups? What were the groups involved in such circulation composed of? What may have been their main activity (trade, craft production …)? Can we trace their provenance? Finally, can we provide explanations on their production in social terms considering the extended area?

2. Material and method

The research presented here focuses on assemblages from the Kra Isthmus in the Thai-Malay Peninsula, as part of a wider reappraisal including comparisons with assemblages from the Philippines, Vietnam and Indonesia (Favereau, 2015). The Kra Isthmus, the upper part of the Thai-Malay Peninsula, corresponds to the westernmost extension of the Sa Huynh-Kalanay ceramic distribution in the South China Sea and where its distribution becomes sparser. Based on the Thai-French Archaeological mission recent dating, the Sa Huynh-Kalanay style appears from c. 500 BC and bears no comparison with earlier assemblages. During this period, the Peninsula was an extremely dynamic region, where local, regional and long distance networks coincided as they traversed transpeninsular routes connecting the Indian Ocean with the South China Sea, or the so-called early Maritime Silk Roads. The material studied comes from fifteen sites recently excavated or surveyed by the Thai-French archaeological mission, including early port settlements and caves used for funerary purposes. They are located either on coastal plains or inland (Fig. 2).

![Fig. 1. Map of distribution of some Sa Huynh-Kalanay type potteries in Southeast Asia and examples of typical Sa Huynh-Kalanay-inspired decorations.](image-url)
In total, 9391 sherds have been studied (Table 1). Sites are unequally represented. Some, such as Khao Sam Kaeo, Khao Sek, Tham Phu Khaor Thong and Tham Tuay were excavated and are well documented (Bellina et al., 2012, 2014). Radiocarbon dates have defined a time range from the 4th–5th centuries BC to the 1st century BC. Khao Sam Kaeo, in particular, provided a large amount of sherds previously analysed by Bouvet (2012) and among which we analysed those displaying Sa Huynh-Kalanay-related decorations. Due to intensive looting, other sites only provide a handful of sherds from insecure archaeological contexts. However, thanks to physico-chemical analysis (on glass and metal), technical comparisons (established on stone ornaments and pottery) and morpho-stylistic parallels (involving stone ornaments, pottery and metal) (Lankton et al., 2006; Pryce et al., 2008; Bellina, 2007, 2014; Bellina et al., 2012; Bouvet, 2012; Pryce et al., 2014), occupations of these sites are estimated between the 4th century BC and the 4th century AD.

The approach used for the analysis was developed by V. Roux and M.A. Courty (Courty and Roux, 1995; Roux and Courty, 2007; Roux, 2010). Based on the concept of the chaîne opératoire, it aims to identify techniques used to make a pottery in order to characterize “ways of doing”, or “traditions”. As shown through ethnoarchaeological studies, ways of doing are culturally inherited and proper to social groups. They are not only typical of the potter but also of the group he belongs to. Through the detailed analysis of macro and micro features created in the ceramic paste during preparation, fashioning, finishing and firing the pot, it becomes possible to reconstruct the chaîne opératoire (Balfet, 1991; Livingstone-Smith, 2007; Roux, 2010). For this, the outer and inner surfaces of each pottery fragment are examined. A sub-sample of thin sections has been conducted in order to provide complementary mineralogical information on the paste and to better observe the orientation of inclusions and voids. Observations are then compared with experimental and ethnoarchaeological databases, allowing us to interpret them in terms of techniques. Finally,

Table 1

<table>
<thead>
<tr>
<th>Site</th>
<th>Location (district)</th>
<th>Type of site</th>
<th>Number of sherds analysed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tham Phu Khaor Thong</td>
<td>Langsuan</td>
<td>Cave site</td>
<td>2129</td>
</tr>
<tr>
<td>Khao Sek</td>
<td>Langsuan</td>
<td>Open air site</td>
<td>5342</td>
</tr>
<tr>
<td>Tham Tuay</td>
<td>Sawi</td>
<td>Cave site</td>
<td>1437</td>
</tr>
<tr>
<td>Khao Sam Kaeo</td>
<td>Mueang Chumphon</td>
<td>Open air site</td>
<td>183</td>
</tr>
<tr>
<td>Tham Chaeng</td>
<td>Sawi</td>
<td>Rockshelter</td>
<td>60</td>
</tr>
<tr>
<td>Tham Ma Ngaen</td>
<td>Sawi</td>
<td>Cave site</td>
<td>105</td>
</tr>
<tr>
<td>Tha Chana</td>
<td>Tha Chana</td>
<td>Open air site</td>
<td>50</td>
</tr>
<tr>
<td>Tham Pramong</td>
<td>Sawi</td>
<td>Cave site</td>
<td>24</td>
</tr>
<tr>
<td>Ko Din</td>
<td>Ko Samui</td>
<td>Unknown</td>
<td>1</td>
</tr>
<tr>
<td>Tham Khuan</td>
<td>Sawi</td>
<td>Cave site</td>
<td>13</td>
</tr>
<tr>
<td>Tham Ta Thun</td>
<td>Sawi</td>
<td>Cave site</td>
<td>6</td>
</tr>
<tr>
<td>Khao Lak</td>
<td>Sawi</td>
<td>Cave site</td>
<td>3</td>
</tr>
<tr>
<td>Khao Krim</td>
<td>Sawi</td>
<td>Cave site</td>
<td>5</td>
</tr>
<tr>
<td>Ban Na Hyao</td>
<td>Phato</td>
<td>Open air site</td>
<td>30</td>
</tr>
<tr>
<td>Bang Kluy Nok</td>
<td>Kapoe</td>
<td>Open air site</td>
<td>3</td>
</tr>
<tr>
<td>Total number of sherds</td>
<td></td>
<td></td>
<td>9391</td>
</tr>
</tbody>
</table>

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within the technical groups thus obtained, morphological and stylistic data are considered and interpreted in terms of cultural or functional variations (Roux and Courty, 2007).

3. Results

3.1. Organisation of ceramic production in the Thai-Malay Peninsula

The reconstruction of pottery chaînes opératoires in the Thai-Malay Peninsula allowed us to distinguish six ceramic traditions. Each tradition is characterized by specific paste, fashioning, finishing and firing techniques. Two of them (Fig. 3) have been interpreted as local, despite the absence of actual production sites, due to their being quantitatively numerous, ubiquitous on the sites where they are identified, and the paste used for their production is coherent with the local geological context.

The most common local tradition (named Thai-Local-1) represents 60.7% of sherds from all sites examined in the Peninsula. It groups mineral-tempered containers. They are shaped with coils and discontinuous pressures, then scraped. Finished by smoothing, some are burnished. The firing takes place in an oxidizing atmosphere.

The second tradition (named Thai-Local-2) represents 25.7% of sherds analysed. It includes containers tempered with plant remains. They are shaped using coils and/or slabs, and discontinuous pressures. Surfaces are smoothed and occasionally burnished or slipped. They are fired in a reducing atmosphere.

Both local traditions display various forms of pottery suitable for various domestic uses. Finally, each includes a small amount of pottery decorated with Sa Huynh-Kalanay type of decorations (we refer to these sub-groups hereafter as Thai-SHK-Local-1 and Thai-SHK-Local-2) (Fig. 3). At Khao Sam Kaeo, data obtained by Bouvet (2012) show that the Thai-Local-1 tradition appears predominantly in earlier contexts than Thai-Local-2. Moreover, according to spatial analysis conducted by Malakie Laclair (2008) on the same site, Thai-Local-2 type pottery is mainly concentrated in an area that was occupied by foreign populations (corresponding to hills 3 and 4; see Bellina and Silapynth, 2006, for a detailed description of the configuration of the site). Given these data, we interpreted the Thai-Local-2 tradition as the refection of a group of migrants who might have been settling in this part of the Thai-Malay Peninsula around 400 BC.

The four other traditions identified in the Thai-Malay Peninsula (Fig. 4) have been interpreted as exogenous: they correspond to small amounts of sherds (0.6–7.9% of the total number of sherds in the Peninsula) and employ techniques not seen in what are thought to be local traditions. In addition, the pastes, shapes and decorations are proper to each group and not shared with any other group in the area.

The first exogenous tradition (7.9% of total sherds) is named Thai-Paddled. Containers have a mineral temper and are shaped using the paddle and anvil technique. The outer surface is fully impressed. They are fired in oxidising atmospheres. Although origin of the tradition remains unknown at this stage of the research, containers may be compared with the “Bau-Malay” paddle-impressed pottery first described by Solheim in the Philippines (P. Bellwood, pers. comm.).

The second exogenous tradition (1.6%), named Thai-SHK-Exogenous, includes containers with mineral temper, often associated with small fragments of crushed ceramic (grog) or shell. These are shaped with coils or slabs, and discontinuous pressure. The lower halves of pots are paddled. The decorations systematically adopt diagnostic elements of the Sa Huynh-Kalanay style. The firing is oxidized.

The third exogenous tradition (0.6%) includes Han period-related containers (and more likely Western Han period (206 BC–AD 9)), as recognized at Khao Sam Kaeo by Péronnet et al. (forthcoming). Here, ceramics have a fine mineral temper. They are shaped using coils, then discontinuous pressures. In most cases, they are paddled. The inner and outer surfaces are smoothed and the outer surface is covered by paddle impressions and often with stamp impressions. Impressed motifs are typical for pots that were manufactured in China during the Han Dynasty. They are fired in oxidation.

The last exogenous tradition (3.5%) includes Fine Wares-related pottery (for a detailed study of Fine Wares from Khao Sam Kaeo, see Bouvet, 2012). Containers are comparable with those found on sites from the Indian Ocean basin. The paste is fine, tempered with minerals. They are shaped with the use of rotational kinetic energy, slipped and fired in a reducing atmosphere.

Table 2

<table>
<thead>
<tr>
<th>Site</th>
<th>Group Thai-SHK-Local-1</th>
<th>Group Thai-SHK-Local-2</th>
<th>Group Thai-SHK-Exogenous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of sherds (MNI)</td>
<td>302 (101)</td>
<td>120 (68)</td>
<td>386 (26)</td>
</tr>
<tr>
<td>Tham Phu Khao Thong</td>
<td>46 (14)</td>
<td>43 (15)</td>
<td>–</td>
</tr>
<tr>
<td>Khao Sek</td>
<td>77 (1)</td>
<td>–</td>
<td>370 (10)</td>
</tr>
<tr>
<td>Tham Tuay</td>
<td>9 (9)</td>
<td>23 (20)</td>
<td>4 (4)</td>
</tr>
<tr>
<td>Khao Sam Kaeo</td>
<td>152 (61)</td>
<td>2 (2)</td>
<td>8 (8)</td>
</tr>
<tr>
<td>Tham Chaeng</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Tham Ma Ngaen</td>
<td>–</td>
<td>22 (8)</td>
<td>–</td>
</tr>
<tr>
<td>Tha Chana</td>
<td>8 (8)</td>
<td>–</td>
<td>2 (2)</td>
</tr>
<tr>
<td>Tham Pramong</td>
<td>3 (2)</td>
<td>21 (14)</td>
<td>–</td>
</tr>
<tr>
<td>Ko Din</td>
<td>–</td>
<td>7 (7)</td>
<td>2 (2)</td>
</tr>
<tr>
<td>Tham Khuan</td>
<td>3 (3)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Tham Ta Thun</td>
<td>2 (1)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Khao Lak</td>
<td>1 (1)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Khao Krim</td>
<td>1 (1)</td>
<td>2 (2)</td>
<td>–</td>
</tr>
<tr>
<td>Ban Na Hyan</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Bang Klaay Nok</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

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with Sa Huynh-Kalanay decorations. The first two types are produced by local groups (Thai SHK-Local-1 and Thai-SHK-Local-2), and the third is exogenous (Thai SHK-Exogenous) (Fig. 8 and Table 2).

Thai-SHK-Local-1 pottery (Fig. 5) are produced in small quantities ($N = 302; MNI = 101$) and occur in contexts dated from the 5th to 2nd century BC. The pots appear on domestic and burial contexts, on ten sites of the Peninsula. The technical signature of the group and the morphologies of containers are local. They correspond to pottery produced by local artisans. Decorations reproduce some typical designs of the Sa Huynh-Kalanay style such as incised horizontal “S” pattern and interlocking triangles. Other motifs evoke the Sa Huynh-Kalanay style but on each site where the group has been identified, decorations are characterized by their own interpretation of the Sa Huynh-Kalanay repertoire.

Thai-SHK-Local-2 (Fig. 6) are reproduced by a group which appear from around 400 BC in the archaeological record. Rare ($N = 120; MNI = 68$), 95–98% of containers are found in funerary contexts. They are present on seven sites in the Peninsula and are dated from the 5th to the 1st century BC. The technical signature is local. Surfaces are carefully burnished and decorated. Stylistic lexicon mixes diagnostic elements of the Sa Huynh-Kalanay lexicon such as incised spirals, waves or interlocking triangles and patterns impressed with the edge of a shell. Other motives are perfectly originals; indeed, there is no correspondence within the Sa Huynh-Kalanay lexicon. Lenticular flat surfaces can be found on the periphery of the carina, alternating with small notches. This type of decorations is innovative, since it occurs as early as 400 BC, which correspond to the oldest known date for such decorations on Metal Age sites in the South China Sea. On some sites of the Peninsula, pots of this group not only share stylistic similarities but also manufacturing traces are perfectly comparable. Given the scarcity of these pots, this may indicate that the concerned containers have been produced by a single craftsman.

Thai-SHK-Exogenous pottery (Fig. 7) circulated in very small quantities ($N = 386; MNI = 26$). The group appears on five sites and is mainly associated with habitation contexts (80–99% of the sherds). At Khao Sam Kaeo, sherds occur in contexts dated around the 4th–2nd century BC on hills 3 and 4, an area of the site that was likely to be occupied by foreign populations (Bellina and Silapanth, 2008). The chaîne opératoire is totally exogenous. Here, the stylistic lexicon is less varied, mainly displaying strips of paired diagonal incised lines and repeated lenticular flat areas on the carina alternating with impressed notches.

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4. Discussion and conclusion

One of the most striking discoveries of this research is the ubiquitous presence, even though in small amounts, of Sa Huynh-Kalanay style pottery amongst the Upper Peninsula corpus (Fig. 8). Specimens are more numerous in coastal contexts than in inland caves. Of over 15 sites investigated or excavated, 12 yielded Sa Huynh-Kalanay-related corpora, most of which were probably produced by local potters (groups Thai-SHK-Local-1 and Thai-SHK-Local-2).

Thai-SHK-Local-1 corresponds to pottery produced by local potters imitating the Sa Huynh-Kalanay style from 500 BC. There were probably produced on demand for a limited number of individuals. The stylistic diversity from site to site suggests multiple centers of productions. This group raises the question of who group ordered these pots, and for which occasion they wanted to have such containers? Were they local populations willing to copy an exotic style or foreigners present in the Peninsula who would have ordered containers characteristic of their cultural group?

Thai-SHK-Local-2 were produced occasionally by another group of local potters from around 400 BC. The great care involved in the containers’ making suggests that they may have been produced by craftsmen specialized in high quality productions. Highly similar productions traces and shared stylistic designs might be indicative of a single production center. Given their context of discovery, these potteries may have circulated for special events in relation to funerary rituals.

Thai-SHK-Exogenous is an exogenous group that shows strong stylistic analogies with ceramics from the Kalanay cultural area in the central Philippines but none with Sa Huynh culture typical motifs. However, comparable pottery was unearthed from one site in central Vietnam, Hoa Diem, whose investigators highlighted the
similarities with the site of Kalanay (Yamagata and Hoang, 2008; Yamagata, 2012).

To sum up, in the Thai-Malay Peninsula, Sa Huynh-Kalanay-related pottery is omnipresent, albeit in very small quantities, and mainly comes from funerary contexts. The technological analysis demonstrated that only a few pots circulated in reality. The majority were produced by local potters to satisfy occasional demand whilst others were imported, probably by a small number of individuals. On the other hand, decorative designs circulated widely. Decorations are likely to play a symbolic role: they are frequently found associated with valuable artefacts such as beads, various ornaments, and metal objects. They may represent a specific form of distinction, proper to small groups of individuals in the Peninsula who were involved at different levels in long-distance exchange. Who were these different groups and what was their role in this complex network involving different ecological niches and socio-political organizations?

Both locally made Sa Huynh-Kalanay ceramics traditions were predominantly found in coastal areas but they occur in inland caves located in the forested zone as well, even if in lesser quantity. However, the assemblage the Thai-French archaeological mission has been able to uncover from inland sites is proportionally much smaller. The first tradition, Thai-Local-1, may represent one group of people and the second, Thai-Local-2, another one who settled in this part of the Peninsula slightly later. The scarcity of data prevents us from formulating a hypothesis on the second group’s provenance. This latter group need not have come from far away. Ethnographic accounts describe how some nomadic groups could obtain some manufactured crafts amongst specialists established in coastal trading centers. Further research is needed to check whether a comparable organization may have existed as soon as the late prehistoric period. As for the Thai-SHK-Exogenous, this group traces links with the Philippines and is almost exclusively found within port settlements of cosmopolitan configuration in the Peninsula.

What role each group played in network exchange and in local socio-political developments are amongst future questions this research aims to answer. The complexity of the organisation of the production in this part of the Peninsula from around 500 BC reflects the significant social, political and economic evolution some groups in the South China Sea region — and more specifically the Thai-Malay Peninsula — were facing when the region became a central node of the burgeoning Maritime Silk Roads.

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