

# Before Siam: Essays in Art and Archaeology

Nicolas Revire, Stephen A. Murphy

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The birth of Siam has been traditionally marked by the founding of the great city-states of Sukhothai and Ayutthaya respectively. These civilisations, however, grew out of a rich milieu of cultures and traditions in the region present from as far back as prehistoric times. Whether the Mon Buddhism that flourished during the so-called Dvāravatī period, the architectural heritage of the Khmers or the Brahmanical and Mahāyāna stimuli of the Malay Peninsula, these varied aspects and influences came together to shape what became early Siam and today modern Thailand.

The aim of this peer-reviewed publication is to present new research and discoveries to reconstruct the cultures, religious persuasions and artistic traditions in pre-modern Thailand and its neighbouring regions. Through a large array of contributions by renowned experts, the public and academics alike will gain a richer and more multifaceted appreciation of this early history which played such a formative role in the birth of Siam.

Nicolas Revire & Stephen A. Murphy

**Essays in Art and Archaeology** 

BEFORE SIAM



BEFORE SIAM Essays in Art and Archaeology

> Edited by Nicolas Revire & Stephen A. Murphy

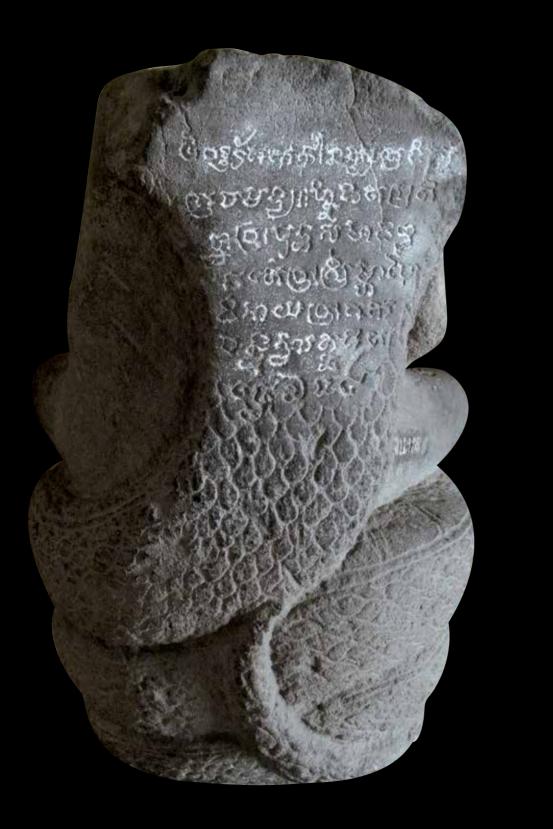
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BEFORE SIAM Essays in Art and Archaeology



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Edited by Nicolas Revire & Stephen A. Murphy



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Front cover: Image of Sūrya (the Sun God) found in Si Thep, Phetchabun province, 6th-8th c.
Currently in the Bangkok National Museum, stone, ca 80 cm. high, inv. no. 01.292/2549
[Photograph courtesy of Paisarn Piemmettawat].

Frontispiece: An inscribed nāga-Buddha found in Lop Buri province. Currently in the Phra Narai National Museum, Lop Buri, sandstone, 55 cm. high, inv. no. LB 126. The inscription registered as LB 13 (K. 995), and possibly dated (1)135 śaka (= 1213 CE), is in Old Khmer script and language [Photograph by Nicolas Revire].

Back cover: French archaeologist George Cœdès in Siam in the late 1920s. The photograph was probably taken in Chaiya where the Sūrya image of Cōla style next to him, now in the Bangkok National Museum, inv. no. SV 16, was discovered [Photograph courtesy of EFEO photographic archives, Fonds Cœdès COE00003].

## Foreword

The history of the region that became Siam and then Thailand has developed tremendously over the last 150 years. The first collections of inscriptions were made in the late nineteenth century, and the first archaeological digs in the early twentieth. The pace quickened after the Second World War with the expansion of Thai universities, more activity by the Fine Arts Department, and the interest of many foreign scholars.

The Siam Society has contributed to this development from its very first day. The *Journal of the Siam Society* has published many pioneering works, such as the series of epigraphic studies by Prasert na Nagara and Alexander B. Griswold, and hosted countless lectures and conferences, including the symposium on the Ramkhamhaeng stele controversy.

This book presents exciting new work which promises to revolutionise the history of this area in the first millennium CE prior to the establishment of Thai kingdoms. The Siam Society is proud to be a partner in bringing this work to publication.

I would like personally to thank all the authors for their exceptional contributions; the editors, Nicolas Revire and Stephen A. Murphy, for their effort in bringing this collection together; the James H.W. Thompson Foundation for its support; and River Books for producing such a beautiful volume. I am confident this book will be recognised as a landmark in the discipline.

Bilaibhan Sampatisiri President The Siam Society under Royal Patronage October 2013

## Preface

The few decades ago, the early history of the regions that became U Siam and then Thailand was a very sketchy affair. W.A.R. Wood's A History of Siam (1924) devoted only three pages to the subject. In David Wyatt's long-run summary, Thailand: A Short History, first published in 1984, everything prior to the eleventh century is accomplished in 18 pages, with only four on events within the region. It is not hard to see why. The source data was limited. Rather little earth had been moved in archaeological digs; rather few inscriptions had been found, or properly edited and published; only a handful of sites had been subject to intense analysis. Pioneer interpretations of this data often incorporated a great amount of ingenuity and imagination, commanded respect because of the extraordinary status of their authors (such as Prince Damrong and George Cœdès), and proved difficult to challenge for the same reasons. The historical approach was fascinated with the idea of empires (Śrīvijaya, Khmer, Dvāravatī), a concept not found in the data but dominant in the historians' own era. The plot of this history ended with the emergence of a state that was Thai by ethnic affiliation, Theravada Buddhist by religious faith, and politically unified around a monarchy, and all the strands of the plot tended to lead towards this ending.

Over the intervening decades, the prehistory part of this tale has changed quite remarkably. We now have a relatively well-accepted chronology of the coming of bronze and iron, a detailed picture of metalworking industries, and some appreciation of their impact on society (rather distinctive from that in other areas of the world). The emergence of settled agriculture is becoming clearer. The extent of settlement is now known to be much more widespread than once thought. Exotic artefacts found in burial sites or ancient trading posts are testament to early commercial links and cultural transfer.

This transformation of the prehistory has resulted from more digging and newer technologies applied in major sites, but also from new access to satellite data, and more surface archaeology that has carried study into new geographical areas. One striking finding of this work has been the sheer variety (across space and across time) of the burial practices, pottery, and other artefacts found at various sites across the region.

The transition from prehistory to history over the course of the first millennium CE has remained more of a puzzle. The changes are striking. Proto-cities appear along with large religious constructions. Written sources also emerge in the form of inscriptions, foreign accounts (especially Chinese), and tannan chronicles (referring to this era though surviving only in manuscripts from later eras). Yet the writings and monuments offered only limited help in understanding the social and political changes of this era. The early inscriptions found so far are often brief and fragmentary, while the tamnan-style chronicles offer legendary accounts that may have been rewritten many times in intervening centuries. Physical sites offer limited information because so few structures (mostly religious and defensive) were built of durable materials. Records kept by the Chinese imperial court have the enormous benefit of being securely dated, but the enormous disadvantage that the data have been translated or transcribed into Chinese language and filtered through the Chinese imperial worldview. It has proved frustratingly difficult to cross-reference between these different types of information: Chinese records, physical remains, epigraphy, and legends. Only rarely can key toponyms from the Chinese record be securely located on the map and securely identified with physical remains. Several towns or states mentioned in inscriptions are still a mystery. The exact significance of "Dvāravatī," perhaps the most important proper name in this area and era, remains enigmatic.

The research presented in this book form the bow of a wave that is about to crash over the history of this transitional era. With a few exceptions written by well-established scholars, the majority of the work comes from doctoral theses and postdoctoral projects either recently completed or still in progress. In five key ways, this work builds on earlier study but moves decisively beyond it.

First, the work is technically more sophisticated than earlier efforts. Dating methods, aerial imagery, and laboratory analyses have become more sophisticated and more accessible. Epigraphic and philological skills have also developed.

Second, the research herein bring into historical focus geographical areas which were overlooked because they are not the political centres of the present day but were of special importance in their own period. The early Indian influences on the mid reaches of the Thai-Malay Peninsula have been known for a long time from both sites and inscriptions. But new research shows that this area was a major centre of craft production, a meeting place of Chinese and Indic cultural influences, and a key point in trade routes stretching from China to the Mediterranean world. Similarly, the importance of the middle Mekong can be assumed on geographical grounds, but now is proved by research made possible after the ending of the Cold War.

Third, these researchers are ready to challenge and revise work by the pioneers, often by painstaking re-reading of old data in the light of new techniques and perspectives.

Fourth, they are working with much larger datasets: more inscriptions that have come to light over recent years, more *cakras* and *semas* that have been found, more sites identified from the sky, and more monuments that have been rescued from the undergrowth.

Fifth, researchers are more open and better equipped to break through the Chinese walls that divide disciplines. The best work draws on techniques from archaeology, art history, religious studies, and other approaches.

In the picture that is now emerging, settlements spread throughout the upper Chao Phraya Delta, Mun valley, and middle Mekong. The people seemed to prefer a certain distance between settlements rather than clustering, which perhaps indicates the continued importance of hunting and gathering. In the few places where long-range data are available, sites were occupied over a long period, and perhaps this was more generally true. The emergence of larger settlements, early towns, especially in the west of this region, may then have been a consequence of gradual development rather than the intrusion of some shock element such as new migrants or developments in long-distance trade.

These larger places adopted ideas and practices from India where proto-urbanisation had occurred at least a millennium earlier and where social practices had been developed for living in these larger, denser communities. In particular, gods and goddesses, beliefs, and forms of worship arrived. However, new research warns us against applying modern labels for religious affiliations to this early period, and against imagining that these gods and practices were in competition or conflict. As today, Buddhism, Brahmanical deities, and animism could coexist, serving different purposes.

Most importantly, these deities, beliefs, and forms of worship were everywhere adapted to local circumstances, creating new practices and forms. Possibly the *cakra* symbol was married with some local idea of a stele or hero stone to create the distinctive monumental pillars which may have been the flagstaffs of a new Buddhist kingship. Similarly, and with even more complexity, the idea of bounding sacred space seems to have been combined with a stone-carving culture and the idea of publicly illustrating the didactic *jātaka* stories to create distinctive *sema* stones. What is more, this same combination was achieved with great local differences of style in different parts of the region.

In this changing religious milieu, the idea that may have had the most impact was the concept of making merit, perhaps because of its many functions in societies of growing complexity: inducing moral behaviour, funding public goods, and constraining the powerful.

In the epigraphy, we find local rulers boasting Indic royal titles, powerful lineages, and political capitals. But on current evidence, political structures seem to have been small scale, multiple, and often fleeting. "Dvāravatī" may yet turn out to be something larger and more lasting, but the evidence is still moot. Even when Khmer influence spreads over a wide area of present-day Thailand, it spreads in the form of temple architecture, roads, fire-houses, hospitals, and royal or divine images, not conquering armies and imperial mandarins.

The variety of local tradition found in the late prehistory is sustained into this era, but is gradually overlain by some common cultural practice. Two cultural zones gradually emerge which can be labeled as Mon or Dvāravatī and Khmer respectively, with the important caveat that we know little about their mix of ethnicity or everyday language use. In the absence of any political consolidation, these zones seem to have been formed by sharing and copying, probably along routes of trade and pilgrimage. As the geographical spread of the research increases, we more and more see that these zones overlap and interpenetrate. In architecture, iconography, and decorative design, we see exchange between the zones and the development of hybrid forms. Local preference seems more important than political fiat. No two places build a "Khmer temple" in exactly the same way. Strikingly, there is as yet no evidence of major conflict in this era.

In sum, the general picture emerging from these new researches is characterised by slow and steady evolution, rather than dramatic change. Yet the picture is still rather unclear and can still be changed by new evidence. Only recently, stripping the cover from a large grassy knoll in Si Thep revealed an unusually complete monument built using techniques and design that seem unique.

In this volume, history "before Siam" comes into much clearer focus, but there is still room for surprise.

## Acknowledgements

The idea for this book originally arose in a panel organised by Nicolas Revire, the first editor of this volume, at the 11th International Conference on Thai Studies, held by the Research Institute for Languages and Cultures of Asia, Mahidol University, at Bangkok, 26-28 July 2011. Stephen Murphy came on board as co-editor later that year and contributions began to come from the panellists and other scholars. The scope of the collected papers and the high calibre of the work far exceeded our expectations. *Before Siam* became an anthology of 18 essays written by established as well as by young researchers in the field, presenting new and exciting discussions on the origins of Siam, now Thailand, and its neighbouring regions.

We are happy to acknowledge first and foremost the support of the Siam Society for our endeavour from the beginning as a partner in producing the present volume. We deeply appreciate the Society's extensive activities in promoting Thailand's cultural heritage and encouraging scholarly initiatives.

We also wish to express our sincere gratitude to the James H.W. Thompson Foundation for their generous financial assistance for the publication of this book. The Foundation is likewise dedicated to promoting public understanding and appreciation of Thailand's cultural past. We hope that the analyses of the art and archaeology of pre-modern Thailand in this volume will help fulfil both the Siam Society's and James H.W. Thompson Foundation's objectives of defining and disseminating information about the evolution of the rich cultural developments in the Kingdom.

We particularly appreciate Chris Baker's preface and his very helpful role in liaising with the Siam Society Council on this project. Jane Puranananda similarly supported us in her advisory capacity with the James H.W. Thompson Foundation. Without the personal involvement of Chris and Jane, it is fair to say that our project would not have come to fruition.

Narisa Chakrabongse and Paisarn Piemmettawat, as well as Reutairat Nanta from River Books, have taken great pains in producing the book and deserve our credit for their professionalism and patience.

Last but not least, special thanks are due to the contributors for their meticulous work and collegial cooperation, to the external reviewers who – often anonymously – offered helpful comments and suggestions on the various essays, and to all those who supplemented various photographs and maps for the book.

In investigating Thailand's remote past and the many influences that melded to create the kingdom of Thailand, we have wanted to make *Before Siam* a significant contribution to knowledge of this particular field and to spur further interest in its research.

The Editors

## **Technical Notes**

## **Country Names**

The name Thailand (or pre-modern Thailand) and the adjective Thai in the collected essays of this volume refer to the area of the current Kingdom, although Siam was its official name until 1939. Similarly, the contemporary names of Cambodia, Vietnam, Laos, Malaysia, and Myanmar (instead of Burma) are used for its present-day neighbours. However, since these nation states are creations of the nineteenth and twentieth centuries, such concepts as Thailand and "Thainess" have no historical relevance in the first millennium CE and prior to the rise of Thai kingdoms in the thirteenth century. Hence the present authors have tended to favour use of the indigenous and original names of the entities or polities of the past – if known – which they describe in their essays.

## Transliterations

The use of local scripts (Thai, Myanmar, Lao, Khmer) is avoided and restricted solely to certain etymological cases. While there are several systems for transliterating Thai into the Latin alphabet, that of the Royal Institute of Thailand (Ratchabanditsathan) has been adopted in this volume, despite its imperfections and inconsistencies, since it is widely accepted in Thailand. Likewise, romanised Chinese transliterations follow the Pinyin system. But where no universally accepted system exists for transliterating a language (e.g. Myanmar, Cambodian), spellings preferred by individual authors or commonly used forms have been followed.

The spelling of Thai geographical names (provinces and districts) similarly follows the official list given by the Royal Institute despite certain inconsistencies regarding word separation. According to this official list, for example, the cities and provinces of Phetchaburi, Ratchaburi, and Kanchanaburi are spelled as one word but Lop Buri, Suphan Buri or Chon Buri spelled as two.

## Local References

In citations of Thai bibliographic references, common local usage is followed here; that is, the given (first) name is cited as the key reference and not the surname of the authors, as is the practice elsewhere. The given name is listed alphabetically in the reference list; e.g. the entry for Damrong Rajanubhab is to be found under D. The spelling of Thai proper names generally follows the rules of the Royal Institute except when the preference of the author is known; as for example, Phasook Indrawooth is the author's own spelling and used here, and not Phasuk Inthrawut as might be the case under Royal Institute rules. Full transliterations are given for references and titles published in Thai and Myanmar, followed by an English translation. Since dates in Thailand and Myanmar generally follow the Buddhist Era (BE) beginning in 543/544 BCE, Thai and Myanmar publications are given and listed in BE with an equivalent given in CE.

## Pāli and Sanskrit

References to Pali texts are made to Pali Text Society publications for the most part, in which case publication details are not included in the list of references. All Pali references have been assigned a unique abbreviation by the Critical Pali Dictionary, which is recognised and adopted internationally. For convenience in reading, a list of such abbreviations related to specific essays appears at the end of the concerned essav.

In the case of a prose Pali text, the volume number, if any, is followed by the page number(s). For instance, a reference to *Dīghanikāya*, volume II, page 35, would be shown as D II 35. In the case of a text in verse, the number of the verse(s) alone is given (e.g. Dhp 67 for *Dhammapada*, verse 67). In the case of a text containing both prose and verse, the page number(s) of the original (if prose text is referred to) or number of the verse (if one or more verses are referred to) is given; for example, Sn p. 107 or Sn 635 refers to Suttanipāta, page 107 or verse 635. If reference is made to a translation or an edition that has been published by a body other than the Pali Text Society, that reference is treated in the same manner as any regular book, following the author/date system.

References to Pali and Sanskrit terms, texts or names are treated as compounds; that is, without a space or hyphen, such as in *Dīghanikāva*, not Dīgha Nikāva or Dīgha-nikāva, and dharmacakramudrā, not dharmacakra mudrā or dharma-cakra-mudrā, to mention just a few examples.

## Abbreviations

Common abbreviations and acronyms cited in this volume include the following.

AMS	Accelerator Mass Spectrometry
BCE	Before the Common Era, equivalent to BC: Before Christ
BE	Buddhist Era
BP	Before the Present
CE	[Modern] Common Era, equivalent to AD: Anno Domini
CNRS	Centre National de la Recherche Scientifique
EFEO	École française d'Extrême-Orient
FAD	Fine Arts Department of Thailand
IK.	Inventory indicator for Khmer monuments
К.	Inventory indicator for Khmer inscriptions
MSL	Mean Sea Level
PTS	Pali Text Society
P.	Pāli
Skt	Sanskrit
SOAS	School of Oriental and African Studies
Т.	Thai



Major places cited in the volume [Map drawn by Nicolas Revire].

PROLOGUE What There Was before Siam: Traditional Views



# What There Was before Siam: Traditional Views

HIRAM WOODWARD

## Back to the Buddha's Lifetime

A lthough a narrative history extending back for more than two thousand years and providing the names of kings, queens, and Buddhist monuments has been preserved in Sri Lanka, no such history exists today in Thailand, which also professes Theravāda Buddhism. One reason is the fact that the population of Thai speakers became established only around the thirteenth century; in the first millennium, Mon was the predominant language. If vernacular Mon histories once existed, they have been irretrievably lost. Nonetheless, Thai-language (and in some cases, Pāli) texts give us insight into how people have regarded the distant past, and some knowledge of the sorts of legends that have been preserved provide a kind of ground upon which the studies in *Before Siam*, which utilise the skills archaeology, epigraphy, art history, and other modern approaches can provide, might be said to stand. In some cases, moreover, these texts provide genuine historical insights.

The stories in the old texts arise from various concerns. One is the nature of Buddhist identity and whether there is a need to demonstrate that Buddhism had been implanted in the very soil upon which people live as long ago as the Buddha's lifetime. Another is the presence of ancient monuments, whose existence calls for historical explanation. Then there might be mere curiosity about what life may have been like in the distant past. The kinds of stories that are invented or appropriated are modified and linked in a variety of ways, depending upon whether the stress is upon continuity or upon social and political rupture, or, as will be seen, upon a kind of continuity that endures despite the ruptures. The texts are relatively limited in number, and among the ones chosen here, dealing with Haripuñjaya, Phra That Phanom, Nakhon Si Thammarat, and Nakhon Pathom, most can be read in English translation.

## Haripuñjaya

Haripuñjaya (the modern Lamphun) is the one site where there is a record of historical continuity, where a dynasty of late-Dvāravatī Mon speakers is transformed into the Thai kingdom of Chiang Mai. There are two well-known historical accounts, both written in Pāli, the first, the *Cāmadevīvaṃsa*, composed by the monk Bodhiramsi in 1410, the second, the *Jinakālamālī*, about a hundred years later. Queen Cāmadevī, who grew up near Lop Buri, is said in the *Jinakālamālī* to have moved north at a date equivalent to 662 CE. If she is understood to have been a more or less historical figure, the date is likely to have been the tenth century,

#### Previous pages:

Footprints of the four Buddhas which have appeared in this "Auspicious Era" [bhaddakappa], Wat Phra That Haripunchai, Lamphun [Photograph courtesy of Nicolas Revire].

#### Phra That Haripunchai at Wat Phra That Haripunchai, Lamphun [Photograph courtesy of Nicolas Revire].

**Opposite Figure 1**:

following the absorption of some of the old Dvaravati polities by the Khmer empire. Her behaviour, in the Cāmadevīvamsa, does not differ from that of an ideal contemporary monarch. "Everyone, the royal ministers and the people, both town and village dwellers, followed the example of Cāmadevī and her sons in supporting a flourishing Buddhism" (Swearer & Sommai 1998: 80). Historical distance is created not with her but with the inhabitants of the North prior to the coming of the queen. They were ruled by *isi*, hermits or sages (Skt, *rsi*). These hermits had the ability to fly through the air and to have offspring whose mothers were deer, and they were able to create the city of Haripuñjaya before Queen Cāmadevī arrived. They were mythical figures. Four key sages had once been Buddhist monks, but they left the monkhood and acquired higher knowledges in the Himavanta forest, a land that figures in numerous *jātaka* tales and provided a model for the world of the hermits. In fact, hermits may have had a significant role historically in the centuries of "Indianisation;" they were presumably descendants of village shamans, and, in one of the handful of Dvāravatī inscriptions, a rsi was credited with the establishment of a carving of the seated Buddha in one of the Khao Ngu caves near Ratchaburi in the seventh-eighth century.<sup>1</sup>

Although there were no such early Buddhist declications in northern Thailand, Buddhism had nevertheless been implanted there during the lifetime of the Buddha, according to the  $C\bar{a}madev\bar{v}amsa$ . He had come to Thailand, stood on a stone platform (P. silāpaita), and made a prediction – not concerning Queen Cāmadevī but her successor King Adittarāja, who would later discover a relic of the Buddha and enshrine it at Phra That Haripunchai [Figure 1].<sup>2</sup> A model for the Buddha's prediction of much later historical events was provided by inscriptions of the Burmese king Kyanzittha, in the late eleventh century, and the physical presence of the Buddha was sanctioned by the Sri Lankan chronicle, the *Mahāvaṃsa*, which describes visits made by Gotama to Sri Lanka. The stone platform echoes the *manosilātala* ("red-arsenic plateau") in the Himavanta, which also inspired King Ramkhamhaeng of Sukhothai (r. 1279?-1298), who established a similarly named stone throne for his own authoritative speech.

## Phra That Phanom

The historical circumstances at Phra That Phanom [Figure 2], a reliquary tower near the banks of the Mekong river in Nakhon Phanom province, are quite different (Pruess 1976). Some of the elements in the local legend, however, parallel those in the Cāmadevīvamsa. At Haripuñjaya, the stūpa built by King Ādittarāja to house the relic he discovered (in 1063 CE, according to the *Jinakālamālī*; actually, probably, in the twelfth century CE) still stands, its appearance altered by subsequent re-buildings [Figure 1].<sup>3</sup> At Phra That Phanom, on the other hand, the monument dates (probably) from the tenth century, was abandoned, and then re-dedicated in the seventeenth century, at which time the supporting myth was composed.<sup>4</sup> In this text, the Urānganidāna ("Tale of the Breastbone"), as in the *Cāmadevīvamsa*, the Buddha pays a visit, but his tasks are expanded: he makes a prediction, that his disciple Mahākassapa will bring a relic to this spot, and leaves three footprints, in different places. In Sri Lanka, on the other hand, the Buddha had left only a single footprint. Time shrinks. Mahākassapa soon arrives



Figure 2: Phra That Phanom, Nakhon Phanom province [Photograph courtesy of Nicolas Revire].

with the relic, and it is encased in a vaulted chamber by the ruler, with the cooperation of the leaders of four neighbouring kingdoms, each working on one of the four faces and subsequently making offerings there (Pruess 1976: 34-35). An analysis of the names of the kings would probably show that they allude to the Angkorian period, as well as to legendary Lao rulers, but it may also be that the point was to establish a model of ideal behaviour, dating from the distant past, that would be relevant to the political rivalries of the seventeenth century.

An image of a thoroughbred horse was constructed to the north, "meant to signify that the Breast-bone Relic of the Buddha had emerged to demonstrate its miraculous powers" (Pruess 1976: 36). This appears to allude to an episode described at greater length in a poem from Nakhon Si Thammarat, concerning the uncovering of a relic by King Asoka:

Men and women of every age went and looked; big and small, they flooded the area. They saw the radiant image of a *deva* riding a caparisoned horse, from which he dismounted.

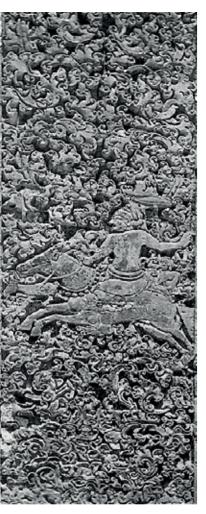


Figure 3: Detail of Phra That Phanom. Carved brick panel showing horse with rider, before the collapse of the monument [Photograph courtesy of Srisakra Vallibhotama]. They saw the relic just as they had hoped; it was in a golden casket and was beautifully radiant. The king took the relic from the back of the horse, and people jammed together in order to see.

The statue of the royal horse would obey only the *deva*. Some people got up on each other's shoulders. Others stetched their necks in order to see the beautiful sight.

Beautiful lanterns and candles dispelled all gloom; they glowed radiantly, and flowers blossomed all around. (FAD 2504: 10; my translation)

Then, later, the tower was built over the vaulted chamber – not by humans but by Viśvakarman, the architect of the gods. On its exterior walls, Phra That Phanom has décor of carved brick, featuring in each panel horses and elephants with riders, surrounded by foliage **[Figure 3]**. Their original meaning is not known, but the *Urānganidāna* describes them as portraits of the same rulers who had constructed the reliquary chamber (Pruess 1976: 40). This would be a case, therefore, of an interpretation of sculptural relief turning into legend.

## Nakhon Si Thammarat

The poem just quoted, which relates the history of the "Supreme Reliquary" (T. borommathat = P. paramadhātu), or stūpa, of Nakhon Si Thammarat, is not well known, but two prose chronicles from Nakhon Si Thammarat with related content were exhaustively analysed by David Wyatt (1975), and another Thai Buddhist treatise was among the earliest to be described in English (Low 1843). Wyatt's texts are found in nineteenth-century manuscripts that were compiled at a time when it was thought important to establish regional identity. The Phra Borommathat was very likely built in the twelfth century and then renovated in about the fifteenth [Figure 4], but there were gaps in its support, gaps brought about by plague and political upheaval. The earlier history of the enshrined relic was constructed with the help of the Dāthāvamsa, the "History of the Tooth Relic," and of one or more texts describing the recovery by King Asoka (third century BCE) of the relics deposited by King Ajātasatru (fifth century BCE), who had received one of the original eight measures of ashes following the Buddha's cremation. This recovery involved the neutralisation of a guarding device John Strong called the "Roman robots" (2007: 132-136). This particular episode is described in a Chinese translation of 306 CE (Strong 1983: 302) and then in several Pali texts of considerably later date, including the Thupavamsa and the Lokapaññati, a cosmography composed in Myanmar, based on Sanskrit as well as Pāli sources (Denis 1977). The Dāthāvamsa, the Lokapaññati, and the Thūpavamsa were arguably the product of the same milieu, the interlinked Buddhist communities around the edges of the Bay of Bengal and the Indian Ocean - Bodhgavā, Pagan, the Thai-Malay Peninsula, and Sri Lanka - in the eleventh-thirteenth centuries.

According to the *Dāthāvaṃsa*, one of the tooth relics of the Buddha was installed in a *stāpa* in Kalinga, on the northeastern coast of India, but warfare erupted over it, and eventually the king's daughter and her husband were entrusted to carry it to Sri Lanka, where it would be

safer. On the way, the couple deposited it temporarily in the middle of a "heap of sand" (P.  $v\bar{a}luk\bar{a}$ - $r\bar{a}si$ -majjha), where its presence was detected by a flying monk, a mahāthera, and then by a nāga-king, who seized it (Law 1925: 34-40).<sup>5</sup> Returned to the couple through the powers of the mahāthera, it eventually safely reached Sri Lanka. It was the heap of sand that captured the imagination of the people of the peninsula; it became the Hat Sai Kaeo, the "crystal sands," surrounded by the sea, and the mahāthera who had saved it made a prediction, that at this site a king named Thammasokarat would rule over a city called Nakhon Si Thammarat, where a "Great Reliquary" would be built (Wvatt 1975: 66, 70).

Thammasokarat (Dharmāsokarāja) is the Thai name for King Asoka of India, and it became a local dynastic title, used by historical rulers in the twelfth-thirteenth century. The first local Asoka, according to the chronicle, was a contemporary of King Asoka, and his behaviour may have been partly modeled on that of King Devānampiyatissa of Sri Lanka, another contemporary, who, similarly, had decided to build a *stāpa* before actually knowing where any relics could be found (Geiger 1960: 78, 116). The story of the discovery of the relics deposited by King Ajātasatru, properly an accomplishment of the Indian



Figure 4: Phra Borommathat (the "Supreme Reliquary Stūpa"), Wat Phra Borommathat, Nakhon Si Thammarat [Photograph courtesy of Nicolas Revire].

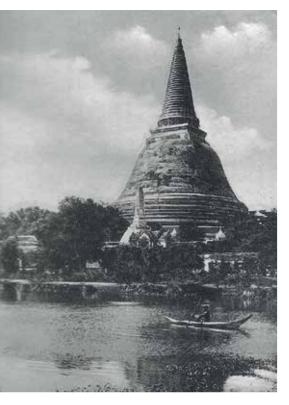


Figure 5: Phra Pathom Chedi, early twentieth century, Nakhon Pathom [After Karl Döhring, Buddhistische Tempelanlagen in Siam, Siam: Asia Publishing House, 1920, first plate volume, pl. 14]. Asoka, was appropriated and assigned to the local Thammasokarat. In the words of the poem quoted above, the "People began to dig. Men and women were everywhere, and they interfered with each other. Fighting with each other as they dug, some fell down and couldn't manage to stand up again" (FAD 2504: 6). But an obstacle is encountered, a *phapphayon* (in Indic spelling, *bhābayanta*, i.e. *bhāvayanta*, a magical diagram of images) that emerges and slashes off people's heads.

"Don't dig any more or you'll die, your life will be at an end." The king was downcast and angered at this obstacle, this thing which wouldn't yield and which was still there after all these years.

"You elders, chiefs, and ministers, have you seen this before?" he said. "Has this ever happened? Councilors and wise men, tell me now."

Astrologers and citizens, councilors and ministers, made the obeisances and said, "According to the texts, this is a warning. What has occurred is called a *bhāvayantra*." (FAD 2504: 7; my translation)

Eventually the god Indra dispatches Viśvakarma (spelled Beśnukarrm in the printed text), who with a magic arrow neutralises the *bhāvayantra*. This version of the story accords in general with that in the

*Thūpavaṃsa*, where the protective device is more specifically described as a rapidly turning wheel, with automatons brandishing swords on the edge (the Roman robots). There, it is called a *vāla-sanghāta-yanta*, presumably a device of arrayed wild beasts (FAD 2511: 47, 165). In the *Lokapaññati*, it is also a kind of *yantra*, a *bhūta-vāhana-yanta*, that is, vehicle-for-spirits machine (Denis 1977: I, 141).

The magical qualities of these machines distinguish them from the "great wheel armed with sharp swords that spun with the force of the river" in the Chinese text of 306 CE (Strong 1983: 302). The wheel was placed in the swiftly flowing Ganges river and operated on scientific principles. Still, since this wheel is in Chinese a lun, the same word used to translate cakra and is later applied to yantras in the shape of circles of letters, it is possible to imagine it turning into something magical.<sup>6</sup> In the Chinese text it is halted, following the advice of a monk, by the application of quantities of plums that gum up the works. Although in one of the Nakhon Si Thammarat versions the application of medicinal leaves neutralises the *bhāvayantra* prior to the descent of Viśvakarma (Wyatt 1975: 82), it is hard, when comparing these texts, to find any firm ground that would enable us to conclude that at one or another point we can attribute a particular belief to the Mahāyāna phase of the peninsula's past, prior to the spread of Pali texts in the elevenththirteenth centuries.

## **Nakhon Pathom**

The case of Nakhon Pathom is for various reasons more intriguing than are Haripuñjava, Phra That Phanom, or Nakhon Si Thammarat. There are competing legends. and they cannot be understood merely by consulting English-language studies or translations. Somewhat complicating the situation is the existence of two ancient sites with rather similar names, which are easy to confuse and doubtless have been mixed up in the past. One is Phra Pathom Chedi, the great tiled stupa restored by King Mongkut (r. 1851-1868), today the memorable focal point of the modern town [Figure 5]. The other is Phra Prathon Chedi, the site of which marks the centre of the ancient Dvāravatī city. Prior to King Mongkut's reconstruction, the original stuba of Phra Pathom Chedi was surmounted by a *prang* (a Khmer-type tower), of uncertain date. A prang was also constructed at some point atop the chedi at Wat Phra Prathon (i.e., Phra Prathon Chedi), and it was left standing in the recent clearing of the monument [Figure 6].

Furthermore, the names of the two monuments have complicated histories. In older texts, such as a legend recorded in 1807 (Wichianpricha 2506: 69) and a *nirat* by the poet Sunthon Phu (2508 and 1986), Phra Pathom Chedi is called "Phra Prathom," spelled Brah Prahdham (พระประธม). This "*dham*" is like the *thom* of Angkor Thom

at Angkor, a Khmer word meaning "great," and this part of the name may have considerable antiquity. In Inscription no. 2 of Sukhothai, of the fourteenth century, there is a passage that has been translated "The cetiya, [including] the new construction as well as the old, reached a height of a hundred and two fathoms. The Khòm call it 'Brah Dham.' It is built in the middle of Lord Kris's city" (Griswold & Prasert 1972: 121-122).<sup>7</sup> The interpretation of this section of Inscription no. 2 is one of the most contested issues in Thai epigraphy, but the view that the *stūpa* in question is Phra Pathom Chedi (Wright 1985: 231) is entirely reasonable.<sup>8</sup> It was evidently located in a place where there were speakers of Khmer (Khòm), and the Hindu god Kṛṣṇa's (Lord Kris's) city was Dvāravatī (Jacques 2009: 27). If the identification is correct, it incidentally provides additional information: that by the fourteenth century the monument was no longer known by its original Mon or Indic name but by the name given by the recent overlords, the Khmers.

At this point the analysis of names becomes even more complicated. There is another Khmer word, *dam*, "to perch," which would in Thai be pronounced *thom*, and it is the root of a derivative, *phdam*, "to sleep" (restricted to royalty), which eventually became the words *parrdam* (USSNU, pronounced *banthom*) and *prahdam* (USSNU, pronounced *prathom*), with the same meaning in modern Thai (Uraisi 2553: 298). Phra Prathom, according to manuscripts recorded in Nakhon Pathom in the nineteenth century, was built at the site of a place where the Buddha had for a period come to lie down (Thiphakorawong 2469: 31). Phra Prathom Chedi was therefore, traditionally, "the *stūpa* (built at the place where the Buddha) reclined."



Figure 6: Phra Prathon Chedi, Nakhon Pathom [Photograph courtesy of Nicolas Revire].



Figure 7: Head of a crowned figure, probably the Buddha, circa late 13th cent. Stucco, H. 11 cm. Currently in the Phra Pathom Chedi National Museum [Photograph by Hiram Woodward].

Figure 8: Mural in the eastern wihan at Phra Pathom Chedi, showing the older monument encased by the stūpa built by King Mongkut [Photograph courtesy of .Nicolas Revire].



This did not accord at all well with the beliefs of King Mongkut, who told his chronicler Chao Phraya Thiphakorawong (2469: 1) that he had seen the spelling *pathama* (ls<sup>§1</sup>), pronounced *pathom*, in old manuscripts. *Pathama* is the Pāli word for "first," and it is the word King Mongkut designated as the official name for the monument. Mongkut's views about the great antiquity of the *stāpa* also depended on historical and archaeological evidence (Thiphakorawong 2469: 1, 3). The "historical evidence" was the information in the *Mahāvaņsa* (Geiger 1960: 86) about the missionaries sent by King Asoka to various countries (Sona and Uttara were sent to Suvaṇṇabhūmi) – "evidence" not previously encountered in this survey.<sup>9</sup> On the archaeological side, Mongkut was able to deduce from the size of the bricks that the structure was surely very old.

The name prathon (spelled ประโทน, prahdona) seems to be somewhat less complicated. Manuscripts seen by Chao Phrava Thiphakorawong in the nineteenth century (2469: 17-19) quite explicitly connect it with Dona (Skt, Drona), the Brahmin who measured the Buddha's relics with a cup that was also called a dona (Strong 2007: 116-123). Just before battle was about to break out among eight armies intent on acquiring the Buddha's relics, the Brahmin Dona stepped forward and offered to parcel out eight portions equally. At a moment when no one was watching, Dona sneaked a tooth relic under his turban. He was seen, however, by the god Indra, who swooped down, snatched away the relic unnoticed, and carried it back to the Heaven of the Thirty-three for installation in the Cūlāmani Cetiya. Dona, when he discovered the relic missing, could not very well ask who had stolen it, and so he made a request for the measuring cup itself, which was granted. It is this measuring cup that is said to be installed at Phra Prathon Chedi. The prefix pra- is linguistically Khmer; according to Philip Jenner and Saveros Pou (1980-81: xxxvi), it "retains the causative and factive ideas of simple /p-/." Prahdona, therefore, might mean "caused (i.e., built) by Dona." Given this straightforward etymology, it could be that the name

Prathon is the oldest, that the name *pra*- plus *dham* (great) was subsequently coined following the same pattern, and that eventually *pra-dham* (pronounced *prathom*), whatever it may have originally meant, acquired the meaning of its homophone *pra-dam* (recline).

Before returning to the Brahmin Dona, it is worth taking up both the best-known legend concerning Phra Prathom and the experiences of Sunthon Phu, as recorded in his poem (2508 and 1986). The legend is guite different in character from any of those encountered so far. It is found in a collection of historical tales compiled in 1807, in the early Bangkok period (Notton 1939: 82-96), and in variant form in the manuscripts viewed by Chao Phraya Thiphakorawong.<sup>10</sup> The ruler of Kanchanaburi, Phraya Kong, was told by astrologers that his son would later kill his own father. Phraya Kong sent his son away to live with an old woman called Yai Hom, and she raised him as her own. Later this prince joined the army of the Phrava of Ratchaburi, and he encouraged the Phraya to stop sending tribute to Phraya Kong of Kanchanaburi. War ensued, and the prince, ignorant of his father's identity,

at last faced Phraya Kong himself in elephant combat. Phraya Kong fell, the prince entered Kanchanaburi in triumph, and he was consecrated as Phraya Phan. Phan then entered the women's apartments, where he heard a cat say, "Look at this son who's searching for his mother!" Phan was startled, and when he met his real mother, she was able to identify him on account of a scar he had had on his forehead since he had been an infant. She revealed his parentage to him. His first action was to put his foster mother, Yai Hom, to death for having kept his identity to herself. Subsequently Phraya Phan was told by monks that he could cleanse his karma (T. lang kam) by building a chedi. Phra Prathom Chedi was the result.

Looking into Indian literature for a counterpart to this myth does not appear to bring positive results. Rather obviously, it seems like a parable of ethnic change, and one of the variants reported by Chao Phraya Thiphakorawong (2469: 27) supports this interpretation. There, Kong is the ruler of Śrīvijaya, that is, Nakhon Chaisi (Nagara Jaiyaśrī), the ancient site of Nakhon Pathom itself, and the prince is raised by the king of Sukhothai as if he were his own son. Returning south, he kills

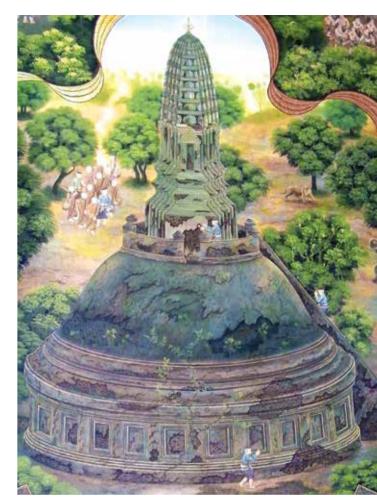


Figure 9: Modern mural in the southern withan at Phra Pathom

Chedi, showing the older monument

then in the monkhood [Photograph]

courtesy of Nicolas Revire].

as found in ruin by Prince Mongkut.

HIRAM WOODWARD

his father and subsequently builds Phra Prathom Chedi. Looked at this way, the myth cannot have had anything to do with the original foundation of the monument but would have been much tied up with its renovation. Unfortunately, it is not yet possible to use art historical evidence to anchor these events. The Phra Pathom Chedi National Museum houses a number of stucco heads that can be dated to about the late thirteenth century, indicating activity in this period [Figure 7]. The exact date of the *prang*, or Khmer-type tower, that was built surmounting the bell-shaped *stūpa* has not, however, been determined. Its proportions, according to the depiction in a mural in the eastern *wihan* at the site [Figure 8], appear too slender for the late thirteenth or the fourteenth century and suggest it may not have been constructed until the sixteenth century, during the Ayutthaya period. In another depiction [Figure 9], however, the fatter proportions are compatible with the earlier date.

In 1842, Sunthon Phu (1786-1855), the greatest poet of the period, visited Phra Pathom Chedi (which was not yet known by that name), and his trip became the basis for his 895-line poem, *Nirat Phra Prathom*. A *nirat* is a travel poem filled with expressions of longing for an absent

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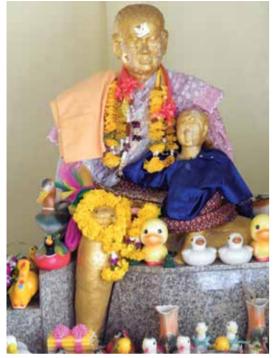


Figure 10: Modern sculpture of Yai Hom with the prince, Phra Prathon Chedi, Nakhon Pathom [Photograph courtesy of Nicolas Revire]. loved one, and with sadness at the recollection of past loves. Place names play an important part in evoking these feelings, and what might sound in translation like a litany of the names of former girlfriends is lightened in Thai by the musicality of the sounds of the words. The view of "Phra Prathom" presented in the *nirat* is simultaneously determined by the poet's sensibility and by experiences that would have been shared by any tourist from the city.

Sunthon Phu finds the base of the *stūpa* surrounded by vegetation, although there are some structures where wandering monks may stay. He is able to look up and discern the architectural features of the surmounting *prang*, its gables and the re-entrant angles of its plan (line 596). He finds the staircase and ascends to an upper level, where he carries out a ritual triple circumambulation and makes offerings (some entrusted to him by others). The poet calls "Phra Prathom" a *paramadhātu* (*bprommathat*, like the *stūpa* at Nakhon Si Thammarat), meaning that it houses a relic, but he does not record any information about the relic's identity, or speculate concerning its origin. He turns to

subjective experience, hoping that his poems will last forever and that the merit earned by his pilgrimage will enable him to join his deceased loved one in the Heaven of the Thirty-three. On the way down, still apparently self-absorbed, he picks up a loose brick and flings it, but the monument is so broad that the brick does not land beyond the base (line 749).

Having descended (walking backwards down the steep staircase), Sunthon Phu finds image halls (T. bot and wihan) and a large sculpture of a reclining Buddha. He meets up with villagers, who point out the portrait and commemorative stone sculptures of Phrava Kong, Phrava Phan, and Phrava Phan's mother (lines 810-811). He briefly recounts their story. Phra Prathon Chedi [Figure 6], he writes (actually he describes it as "Phra Prang Prathon"), was built by Phraya Phan in recognition of the love bestowed by Yai Hom, his foster mother, whom he had been fated to kill. He cremated his mother and father and installed the remains in a cave (tham), over which the golden "Phra Prathom" (i.e., Phra Pathom Chedi) was built. According to Erik Seidenfaden's 1929 Guide, at that time, the images of Phrava Kong and Phrava Phan, both in actuality Dvāravatī stone sculptures of the Buddha or of a disciple, were installed outside the northern and southern wihan, respectively (1929: 26, 33). The statue known as Yai Hom, placed in the gallery, was in form a Bodhisattva, whose head had been stolen (1929: 39). Today the sculpture of Yai Hom that receives reverence is not at Phra Pathom Chedi but at Wat Phra Prathon, in accordance with what Sunthon Phu wrote about her connection with the monument there [Figure 10].

## The Question of Historical Evidence

This account of the various legends and linguistic mazes appears to have taken us back a certain distance in time – to the period of Khmer domination – but not beyond. Let us look closely, however, at a statement that appears at the beginning of Chao Phraya Thiphakorawong's account of one of the manuscripts, that of Mr Thong.

In the time before the capital city of Jaiyaśrī had been established, there was a *brāhmaņa* village, called the home of Doņabrāhmaṇa [an alternative translation is "called Doṇabrāhmaṇa village"], who took the *doṇa*, which is the golden coconut-shell cup [*thanan*] that had measured the relics of the lord Buddha, to install there in a stone chamber [*ruean*], at the time when, it is said, the Buddhist Era had reached 1,133 years [= 690 CE]. (Thiphakorawong 2469: 17; my translation)

Parts of this passage recall the words of Dona, when he made his plea for the measuring cup, as found in the vernacular Thai life of the Buddha, the *Pathom Somphothikatha* (P., *Pathamasambodhi*). "This golden coconut-shell cup that measured the relics I shall take, build a *chedi* for, and install, making it an object of reverence and worship" (Paramanuchit 2505: 516). The interesting detail – though it is somewhat ambiguous – is that the village should be connected with the name Dona. In the Pāli texts, no information is given about Dona's home village. In Sanskrit and Chinese texts connected with the Sarvāstivādin and Mūlasarvāstivādin schools of Buddhism, however, the Brahmin's village is called Dronagrāmaka (Bareau 1971: 290). There is a possibility, therefore, that the statement in Mr Thong's manuscript reflects a tradition that originated in Dvāravatī times, and that this little tidbit is a legitimate piece of evidence in the ongoing controversy about the nature of Dvāravatī Buddhism.

Perhaps buried in other manuscript sources there are similar nuggets offering revelations about early Thailand. It would be a mistake, however, to think that this sort of research is only worthwhile when it leads to such discoveries. Surely, as new vistas unfold, we gain in breadth of understanding by knowing how people of recent centuries have managed to construct a meaningful ancient past.

## Acknowledgements

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## Endnotes

- 1 At least according to the reading of Cœdès (1961: 19), although the word *rsi* is not really clear in this inscription (Revire, this volume).
- 2 Silāpatta according to the Swearer and Sommai English translation of Bodhiramsi (1998: 49), but the correct form is silāpaṭṭa. There are two distinct Pāli words, patta (alms bowl; Skt, pāṭra) and paṭṭa (slab; Skt, paṭṭa). The late Michael Wright asked (2004-05) why King Ramkhamhaeng's stone platform (in Inscription no. 1) is called a pātra (when one would have expected paṭṭa). Perhaps it was because of confusion between the two Pāli words.
- 3 In this introductory essay, the terms *stūpa*, *cetiya*, and *chedi* (or *čhedi*) are considered interchangeable.
- 4 In 1975, the tower collapsed but was then re-built.
- 5 For the Pāli text, see: http://www.buddhanet-de. net/ancient-buddhist-texts/Buddhist-Texts/X2-Dathavamsa/Dathavamsa.pdf.
- 6 The Ayuwang Zhuan, T. 2042.50.0131a05 (Taishō reference). I thank Dr Hui-Wen Lu for confirming the accuracy of the translation in Strong (1983: 302).
- 7 *Thom* in the inscription is not spelled 5<sup>34</sup> but 5, i.e. with a little circle over the consonant to denote *anusvāra*, as in modern Khmer.
- 8 Winai (2000: 156) also raised the possibility of a connection with Inscription no. 2. It has been pointed out that the career of Si Sattha in Inscription no. 2 is paralleled in one of the legends of Nakhon Pathom by that of Maha Lai Lai ("Tatooed Shoulders"). See Woodward

(1975: I, 157-158) and Winai (2000: 157). Winai's short article was composed as an introduction to Boisselier (2000), which was a re-publication of a book that appeared in 1978.

- 9 A translation of the first thirty-six chapters of the Mahāvaņsa into Thai was made by Phraya Thammaparohit in 1796 CE. For the Thai translation of this passage, see FAD (2534: 186). Revire (2011: 99) has argued that the reference of King Mongkut was possibly based on a local adapted Pāli version such as the "Extended Mahāvaņsa," or else the Vaņsamālinī composed during the reign of Rama I.
- 10 Early printings of this book are hard to come by and have been little noticed. More recently the book was issued in pamphlet form by the Samnak-ngan Chat Prayot lae Raksa Ong Phra Pathom Chedi in 1979, and in 1985 the Fine Arts Department published Rueang phra pathom čhedi: krom sinlabakon truat sob chamra mai (The Story of Phra Pathom Chedi, re-edited and corrected by the Fine Arts Department), cited by Winai (2000: 158), which I have not seen. I do not know whether it indicates if any of the original manuscripts are still in existence. The narrative account by Chao Phraya Thiphakorawong (2469: 1-16) parallels his account in the royal chronicle of the reign of King Mongkut, translated by Flood (Thiphakorawong 1965-74: II, 499-519), which was the primary source for Boisselier (2000). The sections on the manuscripts (2469: 17-26 and 27-32) are briefly summarised in Woodward (1975: I, 152-158). Some parts of these texts were utilised by Prince Dhani (1956) and Winai (2000).

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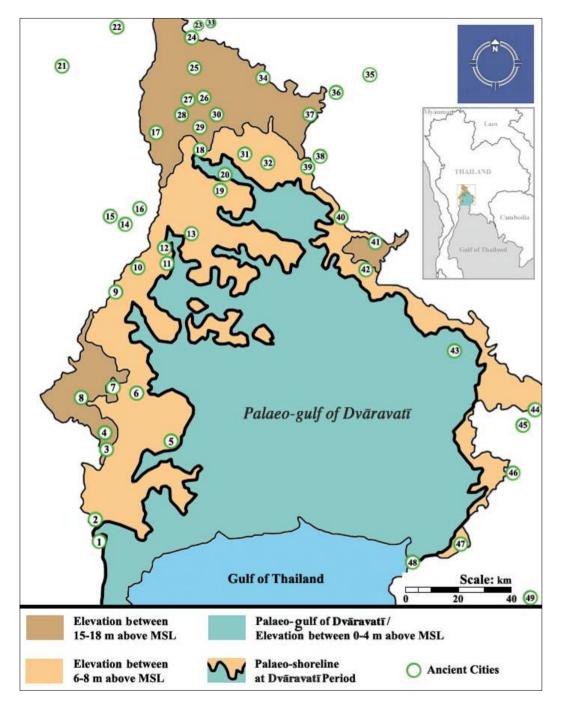
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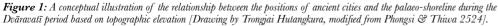
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29

PART I Transitions from Late Prehistory to Early History





## Reconsidering the Palaeo-shoreline in the Lower Central Plain of Thailand

## Trongjai Hutangkura

## Introduction

A rchaeologists who in recent decades have studied the transition between protohistory and early Thai history have often noted that the entire area of the present-day Lower Central Plain of Thailand was covered by seawater that formed a palaeo-gulf up to the period of *circa* 600-700 CE. According to this scheme, its northernmost shoreline was supposedly located in the area of Ang Thong province **[Figure 1]**.

Previous pages: Pottery lamp from the ancient city of Mueang Bon, Nakhon Sawan province, ca 5th-6th century, 9 cm. high. Bangkok National Museum, inv. no. 1/9 [Photograph courtesy of Paisarn Piemmeltawat].

Phytogeography, that is, geomorphological and palynological studies, together with a range of relative calibrated ages of new radiocarbon dates from sedimentary sequences of the Lower Central Plain, form the basis of the present essay.<sup>1</sup> The findings tend to temper and even scientifically disprove the model described above by archaeologists, at least for the first-millennium CE palaeo-shoreline of the Gulf of Thailand. The study reveals that landform of the Lower Central Plain developed from a palaeo-gulf during the Holocene Maximum Transgression from 8,400 calendar years before the present (cal BP; or ca 6,400 BCE) and that its shoreline has been characterised by mangrove forest located in the area of present-day Suphan Buri and Ang Thong provinces. This palaeo-shoreline has moved continuously southward over the centuries under the influence of the Holocene Regression. Dated evidence of mangrove remains found in a sedimentary sequence suggests that the palaeo-shoreline was actually located in the vicinity of present-day northern Bangkok around 600-700 CE.

## **Geographical Setting**

The strategic location of the Lower Central Plain for economic and political activity makes it one of the most geographically attractive regions of Thailand. The deltaic sediment that carpets the basin is nutrient-rich and appropriate for growing rice – hence, the area is known as the "rice bowl of Thailand" (Fukui 1971: 371). The main Siamese political powers emerged in this region, during the Ayutthaya period (1350-1767 CE) and in the more recent Thon Buri (1767-1782 CE) and Bangkok periods (1782-present CE).

The Central Plain is located in the middle of the kingdom of Thailand. Its primary features are a fluvial plain to the north, a deltaic plain to the south and the coastal area at its southernmost reach (DMR 2544). In the past, the Central Plain was topographically divided into three parts: the northern basin, the Nakhon Sawan area, and the southern basin (Alekseev & Takaya 1967; Takaya 1968, 1969 and 1972). According to the most recent geological study, the northern basin and Nakhon Sawan area are considered to be a single region, namely

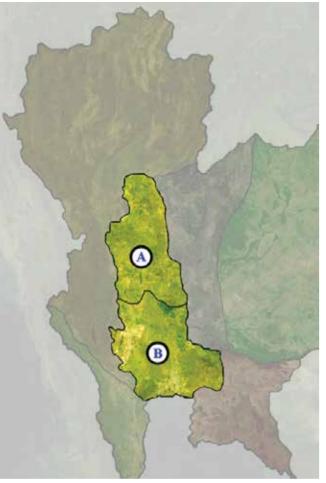


Figure 2: Location of the Central Plain of Thailand; A: The Upper Central Plain, B: The Lower Central Plain [Drawing by Trongjai Hutangkura, modified from Sin 2000]. the Upper Central Plain, while the southern basin is alternatively called the Lower Central Plain (Phisit 1995; Sin 2000) **[Figure 2]**. The Upper Central Plain receives fluvial sedimentation only from northern Thailand. The Lower Central Plain receives fluvial sedimentation from three directions which has been deposited over the marine clay stratigraphy of Early to Middle Holocene from approximately 7,000 to 3,000 BCE.

The Upper Central Plain is where the Ping, Wang, Yom, and Nan rivers join to become the Chao Phraya river in the area of Pak Nam Pho at Nakhon Sawan. Sedimentation of the plain originates from the erosion and weathering process of the fluvial action and provides a diverse fluvial topography of floodplains, terraces, and freshwater swamps.

The Lower Central Plain is a depression area that extends approximately north-south from Ang Thong to Samut Prakan and eastwest from Chachoengsao to Nakhon Pathom. Its topography is characterised by a large deltaic plain, which originated by sediment discharge of the Chao Phraya river flowing from Nakhon Sawan in the Upper Central Plain southerly to the Gulf of Thailand at Samut Prakan. Besides the influence of the river system from the north, other influences emanate from the eastern and western sides of the deltaic plain. Flowing from the west are the Mae Klong, the Sakae Krang, and the Tha Chin rivers, while those from the east are

the Pasak, the Lop Buri, and the Bang Pakong rivers. However, only four rivers (the Chao Phraya, the Tha Chin, the Mae Klong, and the Bang Pakong) empty into the Gulf of Thailand.

The term Lower Central Plain has been employed in recent geological work to describe the zone which was influenced by the Holocene sea-level change and resulted in traces of a palaeo-gulf, brackish/old marine clays, fragments of sea shells, and palaeomangrove occupation. However, the term Chao Phraya Delta is also equally used (Umitsu *et al.* 2002). A number of alternative names were used for the Lower Central Plain in previous work, such as the "Southern Basin of the Central Plain" (Takaya 1969), the "Bangkok Plain" (Hattori 1972b), the "Chao Phraya Depression" (Charan 1975), the "Chao Phraya-Mae Klong Basins" (Selvakumar 1977), the "Lower Chao Phraya Basin" (Sangad & Vella 1983), and the "Southern Central Plain" (Rau & Prinya 1983).

## **State of Problems**

## Standardised Radiocarbon Dates as Cal BP

Geologists have from late in the 1960s recognised traces of marine transgression during the Holocene period (Pons & Kevie 1969; Takaya 1968, 1969, 1971a, 1971b, and 1972; Hattori 1972a and 1972b). Plant and animal remains that are associated with marine conditions have been studied continuously since the 1980s (Chongpan *et al.* 1983; Somboon 1987 and 1988; Chutamat *et al.* 1987). A geomorphological study has revealed that the marine transgression, the result of the sealevel rise, began during the transitional period approximately between 10,000 and 6,000 BCE, covering the terminal Late Pleistocene and Early Holocene. Accordingly, the sealevel reached its maximum point or the so-called Mid-Holocene Highstand around 6,000 uncalibrated BP (Somboon & Narong 1992). From then onward, the sea level decreased gradually along with marine regression. All studies have indicated that the geological structure of the Lower Central Plain is a result of landform changes from shallow sea to floodplain environments.

Studies before the year 2002, however, only used radiometric ages (i.e. uncalibrated BP) in their discussion. So far no calibrated ages have been discussed. The first two studies to use calibrated ages (Saito *et al.* 2002; Umitsu *et al.* 2002) pinned the maximum transgression between 8,000 and 7,000 cal BP (or ca 6,000-5,000 BCE). The following year, Tanabe *et al.* (2003) improved the palaeo-shoreline concept of Umitsu *et al.* (2002). Mauro Negri (2009), however, who used molluscan remains as a sea-level indicator, proposed that the maximum position of palaeo-shoreline stood at 5,500  $\pm$  50 cal BP (or ca 3,500 BCE). Unfortunately, the present author has also found that the result "5,500  $\pm$  50" is actually not a calibrated age. Negri (2009) in fact only referred to the date given in the earlier work of Chongpan *et al.* (1983), which is reported as a radiometric age.

To date, most radiocarbon ages in the Lower Central Plain have been dated by radiometric or radioactive methods while only a few have been dated by accelerator mass spectrometry (AMS). Moreover, some have been calibrated and some others not. The results are therefore difficult to use in determining positions of the palaeo-shorelines to a reliable standard. Therefore, the present author herewith proposes that all radiocarbon ages for the Lower Central Plain be standardised by recalibration with the most up-to-date calibration program, such as CALIB 6.0.<sup>2</sup>

## Phytogeographical Changes

Traces of plant communities in sedimentary sequences of the Lower Central Plain can be investigated by using palynology. Previous palynological investigation in the sedimentary sequences has, however, been limited to the Bangkok clay horizon. The upper horizons, i.e. the weathered clay and covered soil horizons, were reported as non-productive sediments for pollen analysis and mostly neglected by previous researchers (Somboon 1988; Chutamat *et al.* 1987; Paramita 2550). It is fair to say that a complete palynological study in sedimentary sequences of the Lower Central Plain has never yet been undertaken. The present study was based on the author's doctoral research. It presents results extracted from palynofloral remains in the sedimentary horizons of the Lower Central Plain of Thailand, with the aim of obtaining as complete information as possible on ancient plant communities of the Holocene sedimentary sequences.

## Landform Changes and Archaeology in the Lower Central Plain

The absence of prehistoric evidence in the Lower Central Plain has been noted from the beginning of prehistoric studies in Thailand (Seidenfaden & Kerr 1930; Sarasin 1933). Most parts of the plain were covered by seawater during the Early to Middle Holocene, approximately 7,000-3,000 BCE, as is confirmed with the occurrence of acid sulphate in surface soil layers which developed under brackish conditions (Pons & Kevie 1969; Kevie & Banchong 1972; ISM 1981) and with the discovery of brackish and marine sediments in deeper layers (Alekseev & Takava 1967; Takava 1968, 1971a-b; Hattori 1972a-b). The geological evidence, however, has not been corroborated or exploited by historians and archaeologists until recently. At the beginning of the 1980s, some Thai scholars (Phongsi & Thiwa 2524; Thiwa 2526) attempted to estimate the position of the palaeo-shoreline during the so-called Dvāravatī period (ca the second half of the first millennium CE) by using data from Takava's (1969) topographical analysis and location of the ancient cities of the first millennium. The concept was used again by Karen Mudar (1999) in order to analyse the administrative moated settlements of the Dvāravatī culture in the Central Plain of Thailand. The following pages briefly review this literature, which has had a profound impact on ancient historical studies for the region.

The so-called Holocene Maximum Transgression occurred at 6,000 uncalibrated BP (Somboon & Narong 1992) or during 8,000-7,000 cal BP (Umitsu *et al.* 2002; Tanabe *et al.* 2003), corresponding to 6,000-5,000 BCE, resulting in a vast shallow sea that covered most parts of the plain. At that time, archaeological sites of pre-Neolithic or Hobinhian cultures were distributed mainly in limestone caves of mountainous complexes such as cave sites in Kanchanaburi (Rasmi 2000). It is obvious that the shallow sea environment was not congruent with pre-Neolithic settlement patterns that relied on limestone cave sites. For that reason, there is no evidence for pre-Neolithic settlements on the alluvial fans of the palaeo-gulf during the Maximum Transgression phase.

After the Maximum Transgression phase, the sea level has continuously regressed until the present level; this phase is called the "Holocene Regression" (Somboon & Narong 1992; Umitsu *et al.* 2002; Tanabe *et al.* 2003). For this phase, land progradation has been activated to form new areas behind mangroves, i.e. a floodplain environment. Subsequently, the mangroves moved southward under the influence of sea-level fall and freshwater sedimentation in the areas behind the mangroves. This phase corresponds to the Neolithic culture (ca 4,000-2,000 BCE) and Metal Age (ca 2,000 BCE-1,000 CE) (Suraphol 2550: 16-17). The new floodplain areas were not, apparently, yet ready for either Neolithic or Metal Age settlements because no archaeological

sites have been observed in those areas. In contrast, Metal Age settlements were abundant on the undulated terraces covering an area from Nakhon Sawan to Lop Buri (Suraphol 2550: 65-97), approximately 100 km. north of Ayutthaya. During the transition period between protohistory and history around the middle of the first millennium, moated settlements of Dvāravatī culture started to emerge and were distributed throughout the old alluvial fans and terraces of the Lower Central Plain, except in the new areas of progradation.

The application of such topographic information to archaeology since the early 1980s has, however, led to a very different interpretation. The absence of Dvāravatī cultural evidence in the new areas of progradation led Phongsi and Thiwa (2524) to interpret alternatively that the moated settlements of the mid-to-late first millennium CE could have been located near to the sea. Furthermore, that would explain why there was no settlement on the lowlands of the Lower Central Plain, but only on old deltaic plain and terraces at elevations of higher than 4 m. above the recent mean sea level (MSL). The hypothesised palaeoshoreline was therefore clearly drawn by the suggested topographic contour line of 4 m. above MSL [Figure 1] and defined the coastal zone during the so-called Dvāravatī period. It was also associated with the positions of ancient cities, which were considered de facto "ancient ports." The concept of such a "palaeo-gulf of Dvāravatī" has been adopted by many archaeologists since then. Mudar (1999), for example, used the model designed by Phongsi and Thiwa (2524) to propose a new distribution of Dvāravatī-period moated settlements on the Central Plain [Figure 3].

Conflicting interpretations have, however, arisen between recent geological information and archaeological applications since the 1980s regarding the age of the maximum size of the palaeogulf of Thailand. The concept of the "palaeo-gulf of Dvāravatī" has been widely accepted and used in archaeological publications and in information distributed to Thai National museums. For example, the information is reproduced for showing in the Phra Pathom Chedi National Museum **[Figure 4]**. This author's doctoral research (Trongjai 2012) is aimed at improving the picture of the transition period and explaining the relation between the Holocene sea-level changes and the ancient topography of the Dvāravatī cultural period.

## Methodology

Eight geological cores have been extracted from the Lower Central Plain in order to provide information on sedimentary sequences, ancient plant communities and radiocarbon dates. The cores were labelled with provincial names as follows: SR (Saraburi), AT (Ang Thong), SB (Suphan Buri), AY2 (Ayutthaya site 2), PT (Pathum Thani), NN (Nakhon Nayok), NP1 (Nakhon Pathom site 1) and SS (Samut Sakhon) [Figure 5]. Sedimentary sequences have been described according to such physical properties as texture, colour and materials in the sequences and associated with the results of previous studies (Somphat *et al.* 2530; Sin 2000; Tanabe *et al.* 2003). Information on ancient plant communities was obtained from analysis of extracted pollen samples at the CEPAM laboratory of the University of Nice-Sophia Antipolis

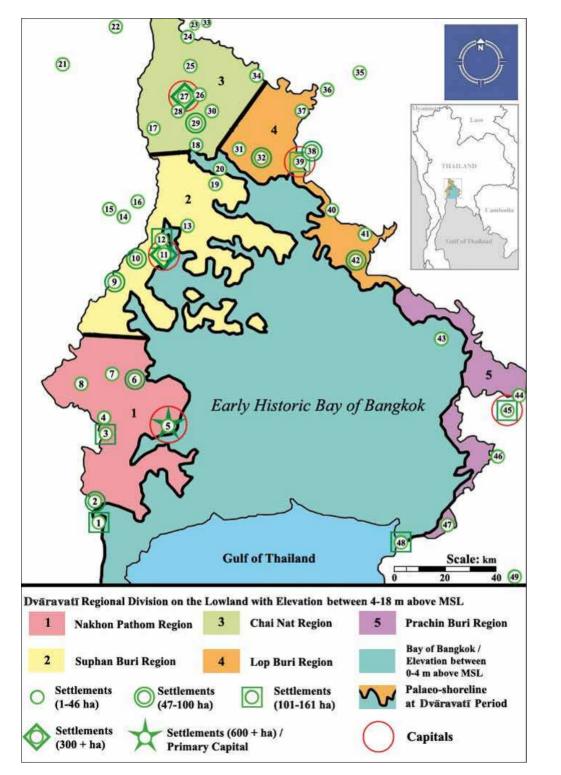


Figure 3: Moated settlements in the Lower Central Plain during the mid-to-late first millennium CE [Drawing by Trongjai Hutangkura, modified from Mudar 1999].

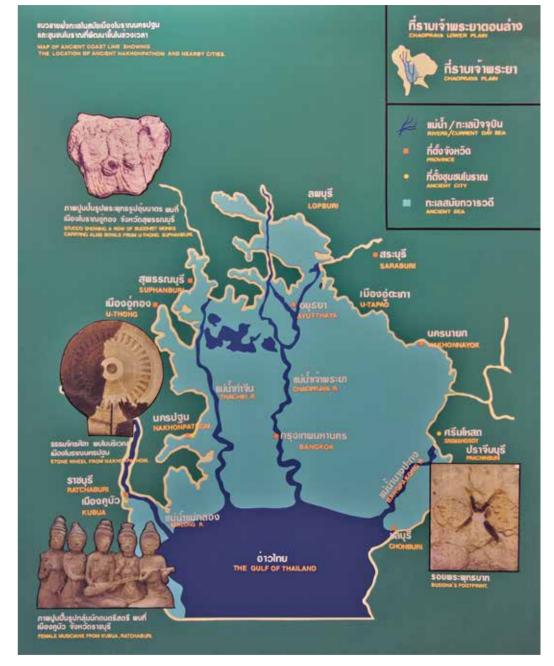
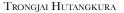
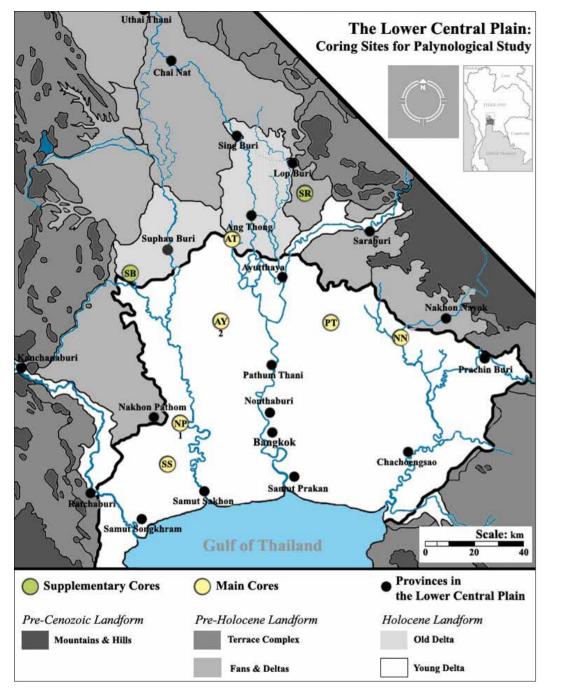
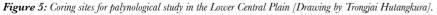


Figure 4: Concept of the palaeo-shoreline during the Dvāravatī period, based on Phongsi & Thiwa 2524, on displays at the Phra Pathom Chedi National Museum, Nakhon Pathom [Photograph by Trongjai Hutangkura].







(UNSA) in France. Pollen identification was based on pollen types in the "Modern Pollen Collection of the Indochinese Peninsula" of CEPAM (Bui Thi Mai *et al.* 2005) and other photographic publications of Asian pollen and spore morphology (Academia Sinica 1982; Huang 1972; Thanikaimoni 1987; Zhang *et al.* 1990). Radiocarbon dates obtained from this research and previous work have been calibrated using CALIB 6.0 with 95.4% confidence (2 sigma) in order to standardise the dates in discussing the relation between calibrated ages and the maximum extension of the palaeo-gulf of Thailand.

## **Research Results**

## Sedimentary Sequences of the Lower Central Plain

**Figure 6** displays the geomorphology of the Lower Central Plain that is based on existing studies of the region and shows many kinds of landform according to period of sedimentation and flood condition. Five types of Holocene landforms outlined: old deltaic plain (no. 8), old lagoon (no. 9), young lagoon (no. 10), tidal flat (no. 11) and natural levee and back marsh (no. 12).

Sedimentary sequences in the sampled cores may be classified in two groups according to Holocene sea-level changes: marine-influenced and non-marine-influenced sequences. Marine influence were found in sedimentary sequences of the cores NN, AT, AY2, NP1, PT, SB and SS, which were extracted in the vicinity of the Holocene deltaic plain. Non-marine-influenced sequences, or the so-called freshwater/ floodplain sediments, occurred in the core SR. Marine influences in the sedimentary cores indicate that the locations of sampling sites were located in the boundary limit of the Holocene Maximum Transgression onto the Lower Central Plain. The core that contains only non-marineinfluenced sequences was located beyond the reach of the transgressive sea level.

## Marine-influenced Cores

Sedimentary sequences of the marine-influenced cores contain both freshwater and brackish-marine sediments that can be classified as four geological horizons from bottom to top (Somboon 1987; Somphat *et al.* 2530):

- (a) The "stiff clay horizon" is generally characterised by freshwater/fluvial sediments consisting of various types of particles from clay, silty clay to sandy-silty clay or sandy clay. This horizon is the base of Holocene sedimentary sequences. It is always overlain by soft clay sequences, the so-called "Bangkok clay horizon."
- (b) The "soft clay horizon," or Bangkok clay horizon, is characterised by marine-influenced deposition, i.e. brackish and marine sediments. The sediment particles mainly consist of clay with a high organic content of very fine

plant remains and are occasionally interbedded with peat layers. The thickness of this horizon differs from place to place, e.g. NN (8.7 m.), AY2 (7.1 m.), AT (2.9 m.), NP1 (> 6.4 m.), NP2 (7.4 m.), and PT (7.7 m.). Jarosite (yellow mottles) and gypsum needles are occasionally found throughout the horizon. The occurrence of jarosite may reflect brackish conditions during deposition.

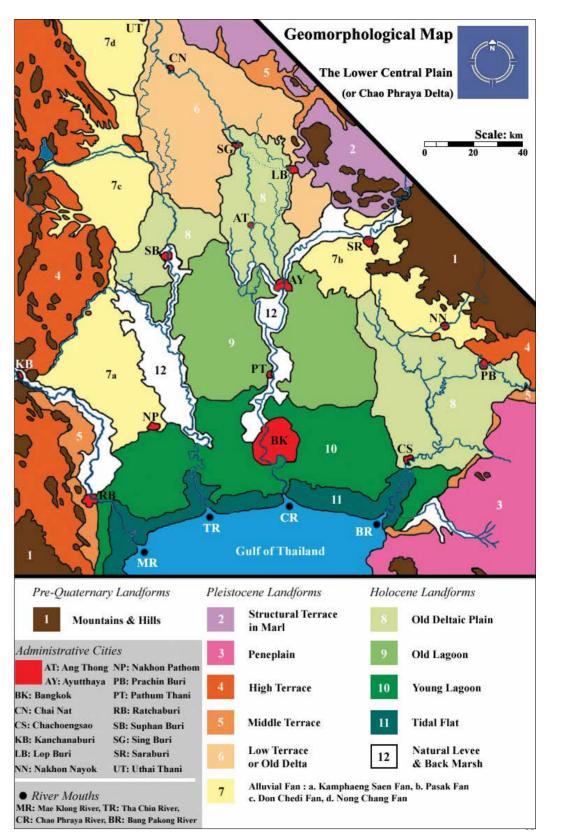
- (c) The "weathered clay horizon" is normally characterised by a very thin layer (0.75 m. to 1.75 m. thick) interbedded between "Bangkok clay" and "covered soil horizons." Sediment particles consist of clay or silty clay. Various mottle colours, mainly yellow, red, brown, black and white, occur throughout the horizon along with gypsum needles and, occasionally, pisolitic iron oxide concretions.
- (d) The "covered soil horizon" is very thin humic soil deposits with thickness ranging from 0.30 to 0.50 m. Mottles, both in cloudy and concentric form, commonly occur throughout the horizon, especially in red, brown and yellow colours. This horizon was deposited under floodplain conditions.

The overall characteristics of the marine-influenced sequences are comparable to previous works on stratigraphic classification (Somphat *et al.* 2530; Sin 2000; Tanabe *et al.* 2003). Previous studies have also reported occurrence of sand ridge sequences in many parts of the Lower Central Plain (Prinya *et al.* 1984; Narong 1984).

Furthermore, the SB core contains only thin layers of brackish sediments indicated by the presence of jarosite in dry peaty clay samples. The brackish sediments are overlain by a long sequence of freshwater sediments. Therefore, this core is situated on the marginal limit of the Holocene Maximum Transgression in the Lower Central Plain. The geomorphological map **[Figure 6]** shows that the location of the SB core, which is the old deltaic plain, corresponds with the palaeo-environment of sub-lagoons with back mangrove flora at the time of the Holocene Maximum Transgression, *circa* 6,000 BCE, as presented in a palaeo-geographical map created by Somboon & Narong (1992: 59, fig. 8).

## Non-marine-influenced Core

The SR core was extracted to a depth of 15 m. and it contained only freshwater sedimentary sequences. Absence of brackish/marine sediments in the core indicates that the sampling site was never impacted by the Holocene Maximum Transgression. The sedimentary sequences of the SR core consisted of four horizons, from the bottom to the top: stiff clay, soft clay, weathered clay and covered soil horizons. Characteristics of the sequences indicate that the core was derived from fluvial/floodplain sediments that have accumulated since the end of Late Pleistocene, from approximately 10,000 BCE to the present day.



## **Opposite Figure 6**:

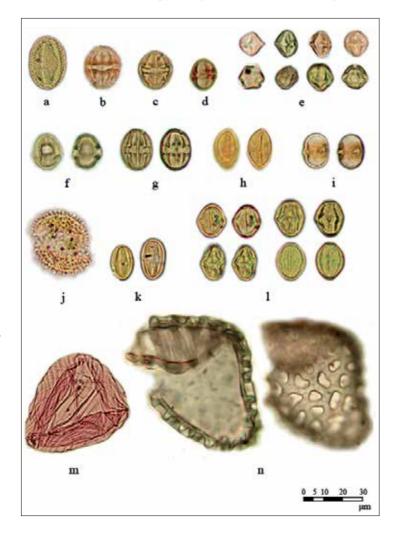
Geomorphological map of the Lower Central Plain based on flood condition [Drawing by Trongjai Hutangkura, based on Narong 1984, Haruyama 1993, and Tanabe et al. 2003].

## Palynofloral Records of the Lower Central Plain

Palynomorphs in sedimentary sequences of the Lower Central Plain in this study were obtained from the eight core samples mentioned above. According to the pollen analysis, the palynomorphs were divided according to "pollen and fern spores" and "non-pollen palynomorphs" (NPP), in which 190 types of pollen and fern spores were identified. Unidentified pollen and fern spores were divided into three subgroups: (1) recognisable pollen morphology, (2) recognisable fern spore morphology and (3) amorphous pollen grains. The NPP group was morphologically analysed into two categories, algal and fungal remains.

## **Palynomorphs and Environmental Types**

Identifiable palynofloral remains of the sedimentary sequences consisted of 167 pollen types and 23 fern spore types. The remains reflect palaeovegetation habitats and may be described according to nine types of environment: (1) swampy mangrove, (2) landward mangrove, (3)



back mangrove, (4) landward edge of back mangrove, (5) fern marsh, (6) wetland, (7) swamp forest/lowland vegetation, (8) highland vegetation, and (9) tropical ferns. These nine environmental types may be grouped into three kinds of palaeo-environments: (1) mangrove ecology, (2) transitional swamp and (3) floodplain environment.

The mangroves are characterised by three types of environment: swamp mangrove, landward mangrove and back mangrove. Assemblage of *Rhizophoraceae* pollen types –, for example, *Rhizophora mucronata* type (P22), *Rhizophora mucronata/Rhizophora apiculata* type (P19), *Rhizophora apiculata* type (P16), *Ceriops tagal/Bruguiera* species (sp.) type (P13), and *Bruguiera gymnorrhiza* type – indicates the existence of a swampy mangrove area. Assemblage of brackish pollen types – for example, *Nypa fruticans, Ceriops decandra* type, *Lumnitzera racemosa, Xylocarpus* sp., and *Excoecaria agallocha* – indicates the presence of landward mangrove ecology. Examples of pollen types in mangroves are shown in **Figure 7**.

The transitional swamp consisted of two environmental types: landward edge of back mangrove and fern marsh. The transitional swamp was a palaeo-environment located between two different environmental conditions, that is "saline" and "freshwater." Remarkable pollen types consist of Oncosperma tigillarium, Phoenix paludosa, Aglaia cucullata, Barringtonia sp., Derris indica, Pandanus odoratissimus, Suaeda maritima, Sesuvium/Trianthema, and Flagellaria indica. Fern spore types of the fern marsh environment may be divided into three kinds based on the following life forms: (1) aquatic fern (e.g. Acrostichum sp., Ceratopteris thalictroides, and Azolla/Salvinia types), (2) climber fern (e.g. Stenochlaena palustris and Lygodium microphyllum), and fern (e.g. Pteris sp.). Example of palynofloral remains of the transitional swamp are shown in Figures 7-8.

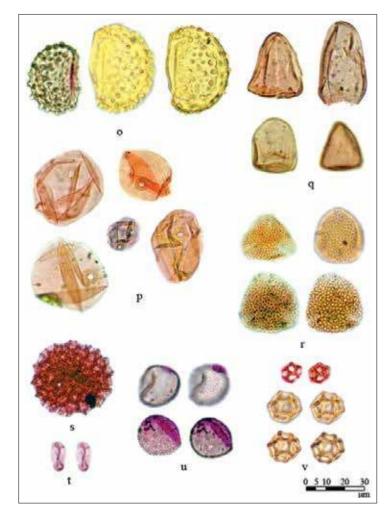
The floodplain environment was interpreted by the occurrence of 101 wetland and swamp forest pollen types. The most abundant types in this environment are *Gramineae* and *Cyperaraceae*. Other remarkable wetland pollen types consist of *Typha angustifolia*, Alternanthera sp., Araceae type, Lemna sp., Potamogeton sp., Utricularia bifida type, and Ipomoea sp. Remarkable swamp forest pollen types consist of Borassus flabellifer, Elaeocarpus sp., Ficus sp., Moraceae/Ulmaceae type, Myrtaceae, Combretaceae/Melastomataceae type, Randia sp., Leguminosae type, Amaranthus/Achyranthus type, Compositae and Dendrophthoe sp. Samples of the pollen types are shown in Figure 8.

Furthermore, there were two minor groups of pollen grains: highland vegetation and tropical ferns. Pollen grains of the highland vegetation that were occasionally found in mangrove environments were considered to be allochthonous pollen grains – for example, *Castanea/ Lithocarpus* type, *Hopea/Shorea* type, *Pinus* sp., and *Quercus* type. Fern spores were also occasionally found in the pollen content. Generally, fern spores can be found in various environments from mean sea level to higher mountaintops. Therefore, it is difficult to specify their host environments. In a broad sense, the occurrence of fern spores in pollen contents is considered as an indicator of humidity. Remarkable fern spore types obtained from the pollen analysis consisted of, for example, *Angiopteris evecta, Selaginellaceae* type, and *Davalliaceae/Polypodiaceae* type.

The group of non-pollen palynomorphs (NPP) obtained from the pollen analysis was mainly divided into two sub-groups: algal remains, which indicate aquatic or swampy condition, and fungal remains,

Figure 7: Mangrove ecology: a. Avicennia sp., b. Rhizophora sp. (type P22), c. Rhizophora sp. (type P19), d. Rhizophora sp. (type P16), e. Ceriops tagal/ Bruguiera sp. (type P13), f. Bruguiera gymnorrhiza type, g. Kandalia candel type; Transitional swamp: h. Phoenix paludosa, i. Aglaia cucullata, *j*. Oncosperma tigillarium, k. Cynometra ramiflora type, *l*. Derris indica *type*, *m*. Ceratopteris thalictroides (not to scale), n. Lygodium microphyllum /Photographs by Trongjai Hutangkura].

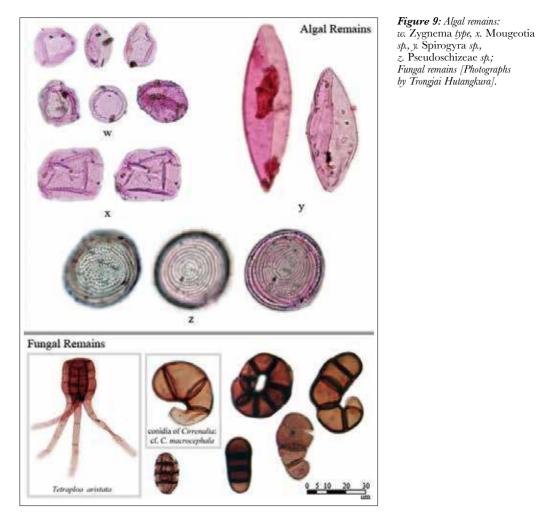
Figure 8: Transitional swamp: a. Stenochlaena palustris; Floodplain environment: p. Gramineae, q. Cyperaceae, r. Hydrocera triflora, s. Polygonaceae, t. Araceae type, u. Typha angustifolia, u. Alternanthera sp. [Photographs by Trongiai Hutangkura].



which imply humid and wet conditions. Algal remains were abundantly found in the weathered clay horizon of the transitional swampy section, but they were rare in the palaeo-mangrove sedimentary section. In contrast, the fungal remains were often found in the palaeo-mangrove sedimentary section, sometimes their percentage values were higher than 30 % in the palynomorph sum in some certain layers of the palaeomangrove. Some interesting NPP remains are shown in **Figure 9**.

## Pollen Diagrams and Pollen Zonation

The pollen diagrams of the main studied cores are composed of 12 groups of palynomorphs: (1) swampy mangrove, (2) landward mangrove, (3) back mangrove, (4) landward edge of back mangrove, (5) fern marsh, (6) ricefields, (7) wetland/floodplain, (8) swamp forest/lowland vegetation, (9) highland vegetation, (10) tropical ferns, (11) unidentified pollen and fern spores and (12) non-pollen palynomorphs (NPP). These groups were reclassified to obtain synthetic data of palaeo-environments which were presented by two types of synthetic pollen



diagrams: "environmental classification" and "environmental changes" (Trongjai 2012: figs 6.5h-6.5v).

In the synthesis of environmental classification, the diagrams presented pollen sum of each environmental type of the standard pollen diagrams, except that the ricefield group was added to the wetland/floodplain group because it was considered part of the floodplain environment since rice is a *Gramineae* and grows naturally in such environment. The NPP group from the standard pollen diagram was presented as two kinds in the synthetic diagram of environmental classification, i.e. fungal remains and freshwater NPP (algal remains) in order to show their percentage values relating to the changes of pollen percentage values in each environmental type.

Environmental types from the diagram of environmental classification were grouped into three major environments: (1) mangrove ecology, (2) transitional swamp and (3) floodplain environment, in order to demonstrate obvious changes between different phytogeographical zones. The percentage values of the mangrove ecology group were created by adding the values of the swampy mangrove, landward

mangrove and back mangrove groups. The values of the transitional swamp were created by adding the values of the landward edge of back mangrove and fern marsh groups. Lastly, the values of the floodplain environment were created by adding values of the wetland/ floodplain and swamp forest/lowland vegetation groups. The remaining groups – i.e. the highland vegetation, tropical fern, fungal remains and algal remains – were excluded from the synthetic diagram of environmental changes.

## **Radiocarbon Dating Calibration**

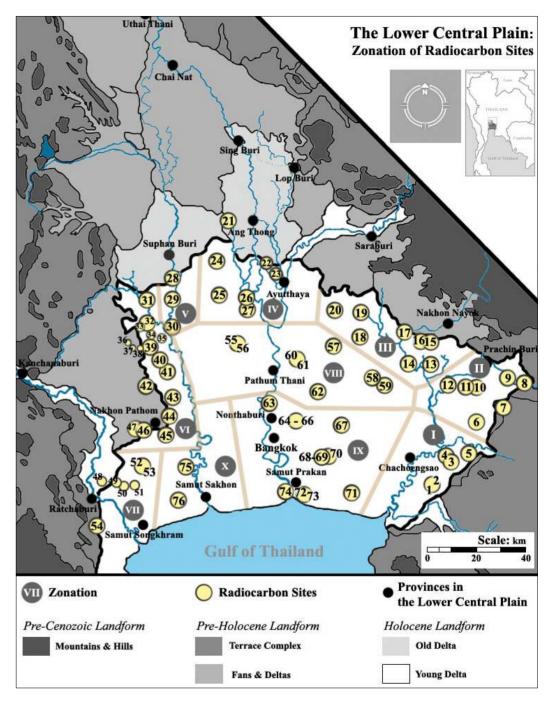
All radiocarbon ages obtained from sedimentary sequences of the Lower Central Plain were converted to the calibrated calendar years calculated by CALIB 6.0 with the datasets of intcal09.14C for terrestrial materials and the marine09.14C for marine materials considering the marine reservoir correction, Delta R =  $-19 \pm 70$  (Southon *et al.* 2002). Details of the calibration method have already been described in the present author's dissertation (Trongjai 2012). Provenance of all radiocarbon samples in the Lower Central Plain are shown in **Figure 10** and in **Table 1**.

Furthermore, to estimate the past sea level of the Lower Central Plain, two sets of oyster shell samples on rock and one set of corals on intertidal reef-flats were considered and calibrated. Locations of the sites are shown in **Figure 11**. The first sample set, reported by Narong Thiramongkol (1984), was tested on oyster shell colonies from a cliff in Prachuap Kiri Khan province (site no. 77). Since the cliff is located on the side of the Gulf of Thailand, the calibration used the Delta R value of -19  $\pm$  70. The second sample set, reported by Sin Sinsakul (1990), was tested on oyster shell colonies from a cliff in Phang-nga province (site no. 78), and the third sample set, reported by Scoffin & Le Tissier (1998), was massive fossil corals on reef-flats at Ko Taphao Yai, east of Phuket island (site no. 79). Since the cliff and the reef-flats are located on coastal side of the Andaman Sea, the calibration used the Delta R value of +32  $\pm$ 70 (Southon *et al.* 2002).

The calibrated ages revealed that these organic materials obtained from the Bangkok clay horizon were dated in the Holocene period ranging approximately 8,000-1,000 cal BP, or 6,000 BCE-1,000 CE. The dates found in the northern part of the Holocene deltaic plain, interestingly, gave an estimated range of 7,000-3,000 BCE, while that of the southern part gave a wider range of 7,000 BCE-1,000 CE. For the reference point of the sea-level changes from southern Thailand, the oldest dates of the sites nos. 77, 78 and 79 were approximately 5,200-4,500 BCE (at 2 m. above MSL), 4,700-4,000 BCE (at 2 m. above MSL) and 4,500-4,100 BCE (at 0.97 m. above MSL), respectively. All mentioned calibrated age ranges from the Lower Central Plain and the peninsula are shown in **Tables 2-3**.

## New Interpretation and Discussion

In archaeological applications of the above results, the time of the Holocene Maximum Transgression must be accurately determined and aligned against the timeline of the Lower Central Plain of Thailand.



*Figure 10:* Zonation for radiocarbon sites in the Lower Central Plain sampled during the year 1971 to 2009 [Drawing by Trongjai Hutangkura].

## Table 1: Selected References of Radiocarbon Age Dating (Uncalibrated)

SITE NUMBER	PROVINCE	ORIGINAL LOCATION CODE	References
(AS CODED IN THIS RESEARCH)			
Radiocarbon Sample Zone I:	1		
1	Chon Buri	KL2	Maloney 1991
2	Chon Buri	BML2	Maloney 1991
4	Chachoengsao	980302-1	Umitsu et al. 1999 & 2002
5	Chachoengsao	Loc.163	Takaya 1972
Radiocarbon Sample Zone II:	Eastern Part		
6	Chachoengsao	S18	Somboon & Narong 1992
12	Prachin Buri	S24	Somboon & Narong 1992
Radiocarbon Sample Zone III	: Northeastern Part		
13	Nakhon Nayok	S38	Somboon & Narong 1992
14	Nakhon Nayok	NY48 (Ongkharak)	Sin 2539
18	Pathum Thani	S56	Somboon & Narong 1992
20	Ayutthaya	S55	Somboon & Narong 1992
Radiocarbon Sample Zone IV	Northern Part		
23	Ayutthaya	971215-6	Umitsu et al. 2002
24	Ayutthaya	S74	Somboon & Narong 1992
25	Ayutthaya	S69	Somboon & Narong 1992
27	Ayutthaya	971215-5	Umitsu et al. 2002
Radiocarbon Sample Zone V:	Northwestern Part	L	
30	Suphan Buri	Locality 3	Narong 1984
Radiocarbon Sample Zone V	: Western Part		
40	Nakhon Pathom	NP <sub>23</sub>	Phisit et al. 2529
Radiocarbon Sample Zone V	I: Southwestern Par		
50	Ratchaburi	Locality 10	Narong 1984
52	Ratchaburi	BTD (Ban Tak Daet)	Negri 2009
53	Ratchaburi	BPL/BTD2RM	Negri 2009
54	Ratchaburi	990108-3	Umitsu <i>et al.</i> 2002
Radiocarbon Sample Zone V			
55	Pathum Thani	Wat Hoi	Chongpan et al. 1983
60	Pathum Thani	Locality 5	Narong 1984
62	Pathum Thani	990114-2	Umitsu <i>et al.</i> 2002
Radiocarbon Sample Zone IX			
63	Nonthaburi	PK (Ban Don Tan)	Negri 2009
64	Bangkok	Senanivate	Somboon 1987
67	Bangkok	NC1 (Ban Ko)	Negri 2009
68	Samut Prakan	CD (King Kaeo)	Wickanet et al. 1999
71	Samut Prakan	980302-3	Umitsu <i>et al.</i> 2002
73	Samut Prakan	Pit 1 (Ban Praeksa)	Tanabe <i>et al.</i> 2002
Radiocarbon Sample Zone X:		· · · · · · · · · · · · · · · · · · ·	- anabe ti ut. 2000
76	Samut Sakhon	Pit 2	Tanabe et al. 2003

Note: Radiocarbon sample zonation is shown here as in Figure 10. Samples were dated in earlier research work.

## Table 2: Calibrated Age Ranges of Radiocarbon Samples from the Research Sites

SITE: Province name	SAMPLE & DEPTH (M.)	MATERIAL	RADIOCARBON AGE: UNCALIBRATED BP	SELECTED CALIBRATED AGE RANGE (CAL BP)
Ang Thong (AT)	AT 3.40	Wood fragment	$6,830 \pm 40 \text{ BP}$	7,957-7,785 cal BP
	AT 5.20	Wood fragment	$6,795 \pm 45 \text{ BP}$	7,936-7,714 cal BP
	AT 7.40	Micro-charcoal	$6,735 \pm 45 \text{ BP}$	7,862-7,675 cal BP
	AY2 7.50	Wood fragment	$6,020 \pm 40 \text{ BP}$	7,133-7,005 cal BP
Ayutthaya	AY2 8.50	Wood fragment	$6,170 \pm 40 \text{ BP}$	7,421-7,246 cal BP
(AY2)	AY2 9.10	Wood fragment	$6,220 \pm 35 \text{ BP}$	7,422-7,277 cal BP
	AY2 9.90	Wood fragment	$6,940 \pm 40 \text{ BP}$	8,029-7,923 cal BP
Nakhon Nayok (NN)	NN 3.10	Wood fragment	$6,750 \pm 40 \text{ BP}$	7,864-7,685 cal BP
	NN 5.60	Wood fragment	$7,355 \pm 40 \text{ BP}$	8,428-8,304 cal BP
	NN 6.70	Micro-charcoal	$7,360 \pm 50 \text{ BP}$	8,453-8,291 cal BP
	NP1 3.50	Micro-charcoal	$5,425 \pm 35$ BP	6,484-6,314 cal BP
	NP1 4.20	Micro-charcoal	$5,970 \pm 40 \text{ BP}$	7,175-6,946 cal BP
Nakhon Pathom (NP1)	NP1 7.30	Charcoal	$6,075 \pm 35 \text{ BP}$	7,295-7,156 cal BP
(1411)	NP1 7.80	Wood fragment	$6,940 \pm 40 \text{ BP}$	8,029-7,923 cal BP
	NP1 8.60	Wood fragment	$7,030 \pm 40 \text{ BP}$	8,161-7,971 cal BP
	PT 3.90	Charcoal	$4,390 \pm 35 \text{ BP}$	5,332-5,267 cal BP
Pathum Thani	РТ 7.00	Wood fragment	$4,745 \pm 35 \text{ BP}$	5,747-5,597 cal BP
(PT)	РТ 9.00	Charcoal	$5,545 \pm 40 \text{ BP}$	6,655-6,445 cal BP
Suphan Buri (SB)	SB 6.80	Wood fragment	$7,425 \pm 45 \text{ BP}$	8,524-8,369 cal BP
Samut Sakhon (SS)	SS 4.00	Wood fragment	modern	modern
	SS 5.70	Wood fragment	$2,270 \pm 30$	2,623-2,433 cal BP
	SS 5.75	Wood fragment	$2,260 \pm 30$	2,619-2,427 cal BP
	SS 7.50	Wood fragment	$7,710 \pm 40$	8,809-8,600 cal BP

**Note:** The calibrated age ranges were provided by Trongjai (2012: 212-214) using the program CALIB 6.0 and were selected with a 95.4% confidence level (2 sigma) with relative area under distribution of 1 or nearest 1. For other ranges in each sample, see Trongjai (2012: Tables 6.3a-6.4l).

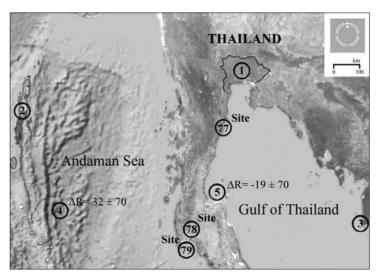


Figure 11: Locations of the sites nos. 77 (Prachuap Khiri Khan), 78 (Phang-nga), and 79 (Phuket) and other relative locations: 1) The Lower Central Plain, 2) Andaman islands, 3) Ca Mau Cape, 4) Marine Reservoir Correction Site for the Andaman Sea: Nicobar islands ( $AR = 32 \pm 70$ ) and 5) Marine Reservoir Correction Site for the Gulf of Thailand: Ko Ang Trang ( $AR = -19 \pm 70$ ) [Drawing by Trongjai Hutangkura].

#### Table 3: Selected Calibrated Age Ranges of Radiocarbon Samples

SITE NUMBER	Province	<b>D</b> ертн (м.)	RADIOCARBON AGE : UNCALIBRATED BP	SELECTED CALIBRATED AGE RANGE (CAL BP)
1. Selected Samples Used in Estimating the First Stage (8,000-7,000 cal BP or 6,000-5,000 BCE)				
40	Nakhon Pathom	3.50-4.50 m.	$6,380 \pm 90 \text{ BP}$	7,438-7,002 cal BP
30	Suphan Buri	2.00 m.	$6,830 \pm 140 \text{ BP}$	7,939-7,458 cal BP
25	Ayutthaya	2.00-3.50 m.	$6,990 \pm 300 \text{ BP}$	8,382-7,270 cal BP
27	Ayutthaya	4.00 m.	$6,180 \pm 110 \text{ BP}$	7,467-6,995 cal BP
24	Ayutthaya	1.45-1.80 m.	$7,600 \pm 190 \text{ BP}$	8,784-7,972 cal BP
23	Ayutthaya	2.50 m.	$6,950 \pm 110 \text{ BP}$	8,170-7,719 cal BP
60	Pathum Thani	2.00 m.	$6,490 \pm 135 \text{ BP}$	7,657-7,156 cal BP
20	Ayutthaya	0.25-1.30 m.	$6,800 \pm 260 \text{ BP}$	8,176-7,157 cal BP
18	Pathum Thani	1.50-3.00 m.	$6,690 \pm 280 \text{ BP}$	8,043-6,893 cal BP
13	Nakhon Nayok	4.47-6.00 m.	$7,020 \pm 180 \text{ BP}$	8,177-7,507 cal BP
12	Prachin Buri	3.00-4.30 m	$7,570 \pm 170 \text{ BP}$	8,725-7,964 cal BP
6	Chachoengsao	2.40-3.90 m.	$7,310 \pm 100 \text{ BP}$	8,343-7,930 cal BP
5	Chachoengsao	2.80 m.	$7,440 \pm 150 \text{ BP}$	8,522-7,968 cal BP
4	Chachoengsao	4.90 m.	6,410 ± 90 BP	7,613-7,313 cal BP
2. Selected Sar	nples Used in Estimati	ing the Second Stag	e (7,000-5,000 cal BP or :	5,000-3,000 BCE)
55	Pathum Thani	3.00-4.00 m.	5,500 ± 50 BP	6,562-6,182 cal BP
14	Nakhon Nayok	3.00-4.00 m.	6,330 ± 90 BP	7,504-7,031 cal BP
1	Chon Buri	2.25-2.29 m.	$5,560 \pm 160 \text{ BP}$	7,030-6,182 cal BP
2	Chon Buri	3.96-4.00 m.	$6,560 \pm 100 \text{ BP}$	7,794-7,436 cal BP
3. Selected Sar	nples Used in Estimati	ing the Third Stage	(5,000-3,000 cal BP or 3,	000-1,000 BCE)
54	Ratchaburi	1.30 m.	$3,420 \pm 170 \text{ BP}$	4,280-3,339 cal BP
50	Ratchaburi	1.30 m.	$3,670 \pm 125 \text{ BP}$	4,557-3,768 cal BP
52	Ratchaburi	1.40 m.	$4,450 \pm 65 \text{ BP}$	4,859-4,398 cal BP
53	Ratchaburi	2.00 m.	$3,670 \pm 50 \text{ BP}$	3,826-3,393 cal BP
63	Nonthaburi	2.50 m.	$4,785 \pm 70 \text{ BP}$	5,313-4,826 cal BP
62	Ayutthaya	4.00 m.	6,410 ± 70 BP	7,467-6,995 cal BP
67	Bangkok	1.50 m.	$3,995 \pm 60 \text{ BP}$	4,428-4,064 cal BP
4. Selected Sar	nples Used in Estimati	ing the Fourth Stage	(3,000-2,000 cal BP or 1	,000-1 BCE)
	<b>.</b>		2,250 ± 120 BP*	2,544-1,949 cal BP (wood)
64	Bangkok	1.50 m.		2,735-2,057 cal BP (shell)
68a	Samut Prakan	1.25 m.	$2,000 \pm 240 \text{ BP}$	2,710-1,520 cal BP
5. Selected Sar	nples Used in Estimati	ing the Fifth Stage (2	2,000-1,000 cal BP or 1-1	,000 CE)
76	Samut Sakhon	4.00 m.	$2{,}210\pm60~\mathrm{BP}$	2,062-1,595 cal BP (= 113 BCE-355 CE)
73	Samut Prakan	3.25 m.	2,070 ± 40 BP	1,868-1,477 cal BP (= 82-473 CE)
71	Samut Prakan	1.63 m.	940 ± 120 BP	1,165-626 cal BP (= 785-1,324 CE)

**Notes:** The calibrated age ranges were provided by Trongjai (2012: 211-214) using the program CALIB 6.0 and were selected with a 95.4% confidence level (2 sigma) with relative area under distribution of 1 or nearest 1. For other ranges in each sample, see Trongjai (2012: Tables 6.3a-6.4l).

\* Somboon (1987: 113, fig. 4.3) did not report uncalibrated material appropriate for such radiocarbon dating. Using CALIB 6.0, a wood sample could range between 2,544 and 1,949 cal BP. A shell sample could range between 2,735 and 2,057 cal BP.

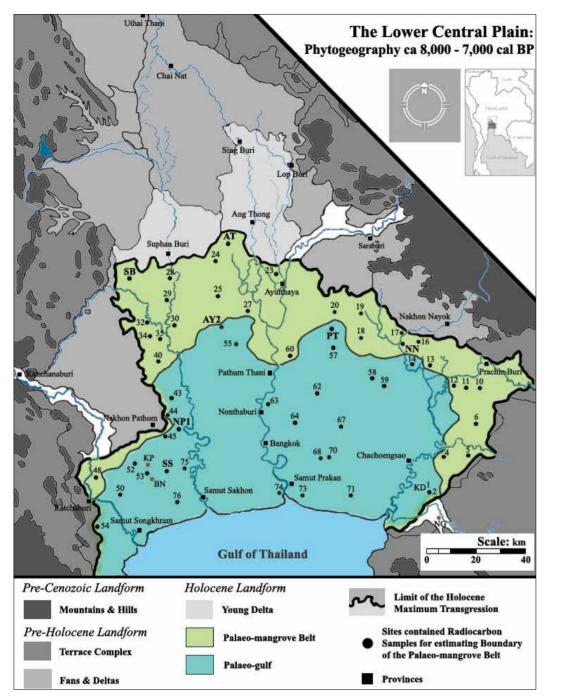
Results from the author's doctoral research indicate that the Holocene Maximum Transgression completely changed the topography of the Lower Central Plain from a floodplain environment of the Late Pleistocene at 10,000 cal BP to a complete shallow sea environment at 8,400 cal BP (ca 6,550 BCE), with reference to the age of a charcoal sample from the SB site. Archaeologically speaking, the Holocene Maximum Transgression, therefore, occurred in the prehistoric period of Hoabinhian culture and provided a vast shallow sea area covering most parts of the Lower Central Plain at that time.

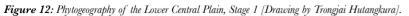
The Holocene Maximum Transgression resulted in the maximum size of the palaeo-gulf of the Lower Central Plain. This is more or less comparable to previous geological estimates by Takaya (1969), Somboon (1987), Somboon and Narong (1992), Umitsu *et al.* (2002) and Tanabe *et al.* (2003). The age of the Holocene Maximum Transgression has been estimated by some (Somboon 1987; Somboon & Narong 1992) as 6,000 BP or *circa* 4,000 BCE and by others (Umitsu *et al.* 2002; Tanabe *et al.* 2003) at between 8,000 and 7,000 cal BP or *circa* 6,050 to 5,050 BCE. This maximum size is also comparable to the size of the palaeo-gulf proposed by Phongsi and Thiwa (2524) during the Dvāravatī period (ca mid-to-late first millennium CE).

Pollen evidence indicates that the palaeo-environment of this region was a marine environment of mangrove ecology. According to radiocarbon dates obtained from the Bangkok clay horizon, the palaeo-shoreline dominated by the *Rhizophora* mangrove community clearly played an important ecological role in the region since at least 7,000 BCE. Today, the descendants of this palaeo-mangrove community is still important in preventing coastal areas of the Lower Central Plain from erosions caused by storms, although it has gradually decreased through deforestation.

Furthermore, Rhizophora pollen evidence together with new standardised radiocarbon dates [Tables 2-3] give a more accurate idea of the palaeo-shoreline evolution from circa 6,550 BCE to the first millennium CE. Because Rhizophora pollen grains only occur in the Bangkok clay horizon, the age range of this horizon also reflects the age of the palaeo-mangrove community at each site. The age of the upper part of the Bangkok clay horizon coincides with the age of the last palaeo-mangrove community. For example, the upper parts of the Bangkok clay horizon in the vicinity of Suphan Buri (SB site) and Ang Thong (AT site) provide age ranges of approximately 6,550 to 5,800 BCE. This evidence implies that marine environment disappeared from the region around Suphan Buri and Ang Thong at least after 5,800 BCE and after the mean sea level entered its marine regression phase. The Holocene Maximum Transgression is considered the first stage of the palaeo-gulf evolution occurring between circa 6,000-5,000 BCE [Figure 12].

The upper parts of the Bangkok Clay Horizon in the vicinity of Pathum Thani (sites nos. 55 and 56) provide age ranges from *circa* 4,600-4,200 BCE. In the vicinity of Nonthaburi (site no. 63), the upper part gives an age range from *circa* 3,300-2,800 BCE. These two age ranges suggest that the mangrove community palaeo-shoreline had gradually moved southward. These movements could be considered respectively as the second stage (ca 5,000-3,000 BCE) [Figure 13] and the third stage (ca 3,000-1,000 BCE) [Figure 14] of the palaeo-gulf evolution.





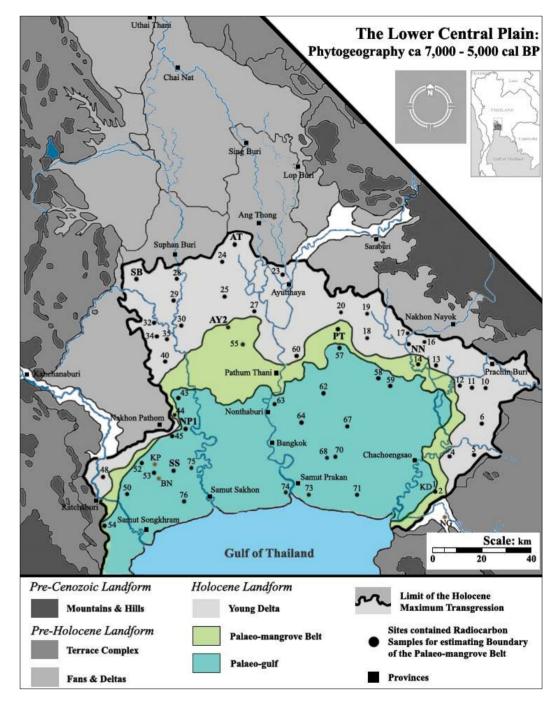


Figure 13: Phytogeography of the Lower Central Plain, Stage 2 [Drawing by Trongjai Hutangkura].

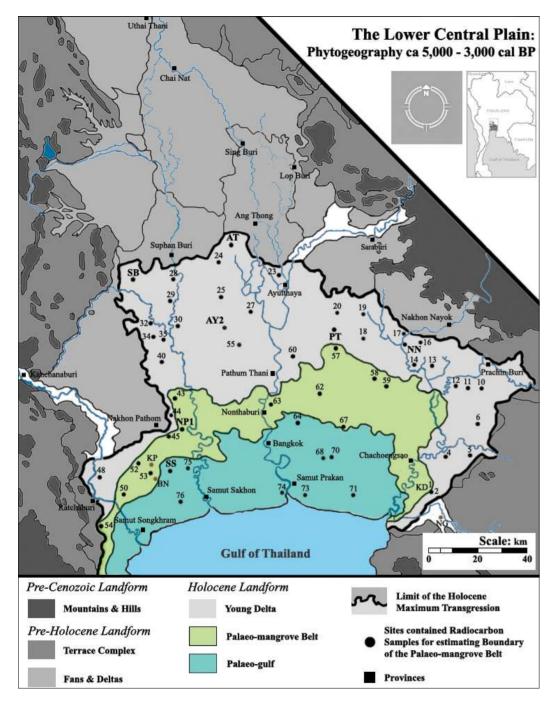


Figure 14: Phytogeography of the Lower Central Plain, Stage 3 [Drawing by Trongjai Hutangkura].

The palaeo-shoreline of the next stage (ca 1,000-1 BCE), is attested by the presence of the last mangrove community in Bangkok (site no. 64) providing an age range of between circa 700 BCE and 1 CE. Furthermore, the appearance of two Metal Age archaeological sites at the western side of the palaeo-gulf has to be considered. The sites are Khok Phlap (KP) located in Ratchaburi and Ban Nong Song Hong (BN) located in Samut Sakhon [Figure 14]. The existence of these two Metal Age sites, which are relatively dated to circa 500 BCE. confirms that prehistoric people dwelled on the young Delta in the area between Ratchaburi and the western side of Samut Sakhon. Moreover, according to a study of fossil coral reef in Phuket (Scoffin & Le Tissier 1998: 274), the fossils found at the level of 0.45 m. above recent MSL gave a calibrated age range of 929 BCE-126 CE. Therefore, the past sea level of the Lower Central Plain during the first millennium BCE may have been comparably situated at approximately 0.45 m. above the recent MSL.

Finally, the fifth stage of the palaeo-gulf evolution occurred in the first millennium CE. Radiocarbon samples from the upper layers of areas in Samut Sakhon (site no. 76: 113 BCE-355 CE) and Samut Prakan (site no. 71: 785-1324 CE and site no. 73: 935-1395 CE) indicate that those areas may have been mangrove forest and shallow sea. Phytogeography of this stage also seems to be contemporary with the expansion of the Dvāravatī culture, *circa* mid-to-late first millennium CE **[Figure 15]**.

# Palaeo-shorelines in the Archaeological Context of the Lower Central Plain

Landform evolution data can be applied in archaeological research as a means of reaching an understanding of the impact of landform changes on human settlements. In the case of the Lower Central Plain, no Palaeolithic sites that date roughly from 30,000 to 10,000 BP have been found in the plain, although some have been identified near mountainous complex zones of pre-Quaternary and Pleistocene landforms, which are older than 10,000 BP. The above results and analysis clearly indicate that the Lower Central Plain was flooded by a rising sea level since the Early Holocene and that the Holocene Maximum Transgression occurred around 6,500-6,400 BCE. The pollen analysis indicates that pollen grains of *Rhizophora* sp. were the dominant vegetation in the vicinity of the palaeo-gulf of Thailand. Therefore, the palaeo-shoreline of 6,500 BCE may have hosted a mangrove belt covering the shore of the palaeo-gulf.

All the evidence shows that the shoreline around 6,500-6,400 BCE was located in the area between modern-day Suphan Buri and Ang Thong and that most parts of the Lower Central Plain was flooded by the sea. People were unable to inhabit such an environment **[Figure 12: Stage 1]**. The sediments of the palaeo-mangrove belt between 6,000 and 5,000 BCE might correspond to palaeo-brackish sediments of the SB core and palaeo-mangrove sediments of the cores AT and NN, and other radiocarbon sampled sites in the vicinity of the belt.

From 5,000 to 3,000 BCE, the shoreline was probably located in the upper part of Nakhon Pathom, and areas of Pathum Thani, and

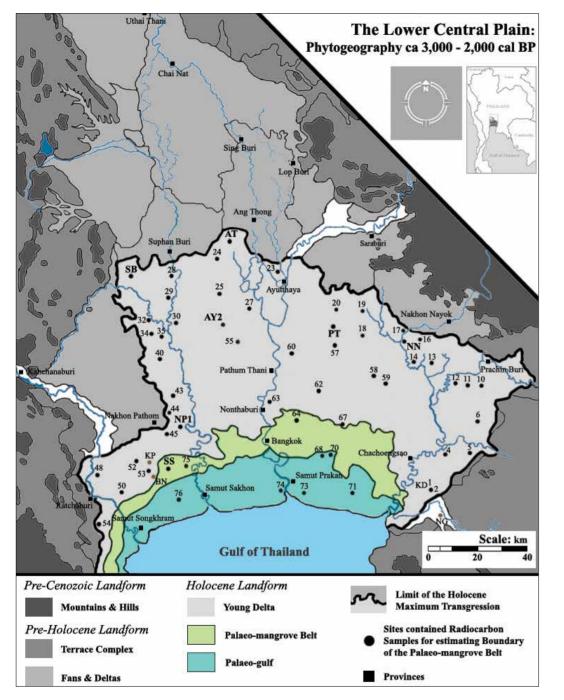


Figure 15: Phytogeography of the Lower Central Plain, Stage 4 [Drawing by Trongjai Hutangkura].

Nakhon Nayok **[Figure 13: Stage 2]**. The area of the Lower Central Plain was still unavailable for settlement because the area between Ang Thong and Pathum Thani might have been a young deltaic plain, possibly a wetland zone. Sediments of this young deltaic plain might correspond to the weathered clay horizon of cores AT and NN. The palaeo-mangrove sediments of this mangrove belt might correspond to the upper part of the Bangkok clay horizon belonging to cores AY2 and PT, and sites nos. 1, 2, 44 and 55.

Between 3,000 and 1,000 BCE, the shoreline moved southerly to the areas of Nonthaburi [Figure 14: Stage 3]. The Palaeo-mangrove sediments of this belt might correspond with the age of the upper part of the Bangkok clay horizon in the NP1 core and other nearby sites of radiocarbon sampling. This period corresponds archeologically to the Neolithic culture of Thailand which is generally given as circa 4,000-2,000 BCE (Suraphol 2550). While most prehistoric sites of the Neolithic culture were still located on terraces of the Pleistocene landform, two sites were located on the Holocene deposits in the eastern side of Bang Pakong river. They are Khok Phanom Di (KD) and Nong No (NG) in Chon Buri province (Higham & Rachanie 2012: 46-69) dated around 2,000 BCE. The existence of Khok Phanom Di implies that Neolithic people had settled down on the young deltaic plain since at least the second millennium BCE. Therefore, the position of the site could be used as a marker for estimating the palaeo-shoreline position in this period. The locations of two other archaeological sites on the western side of the plain, Khok Phlap (KP) and Ban Nong Song Hong (BN), correspond to the mangrove belt in this stage. Naturally, it was impossible for prehistoric people to settle in such swampy mangrove area. Therefore, the settlement must have been occupied after 1.000 BCE.

Between 2,000 and 1,000 BCE, the shoreline moved southerly to the areas of southern Nakhon Pathom and most parts of Bangkok and Chachoengsao [Figure 15: Stage 4]. The sediments of the mangrove belt might correspond with the upper parts of the Bangkok clay horizon in the SS core and the radiocarbon sampled sites nos. 64 and 75. This period correspond to the Metal Age in Thailand which is generally given as circa 2,000 BCE-1 CE (Suraphol 2550). In the Lower Central Plain, most Metal Age villages were still located on Pleistocene landforms. However, several Metal Age sites have been discovered on Holocene deposits of Ratchaburi and Samut Sakhon. On the western side of the plain, there was a group of Metal Age villages in Pho Hak sub-district, Bang Phae district of Ratchaburi province of which the most prominent is Khok Phlap (KP) (Sot 1978a-b). A radiocarbon date is unavailable for this site, but a relative chronology of archaeological evidence suggests that Khok Phlap had been a Metal Age village in the first millennium BCE. Approximately 7 km. southward from the site, another Metal Age site, namely Ban Nong Song Hong (BN), was discovered in the vicinity of Samut Sakhon (FAD 2553). Unfortunately, only a preliminary report is available with no radiocarbon dates. The chronology of the site was gauged by the occurrence of metal artefacts, probably appearing at least in the first century CE. The Ban Nong Song Hong site, therefore, might have been contemporary with the Khok Phlap site and these two archaeological sites are considered as the fixed point for estimating the boundary of the palaeo-shoreline in its fourth stage.

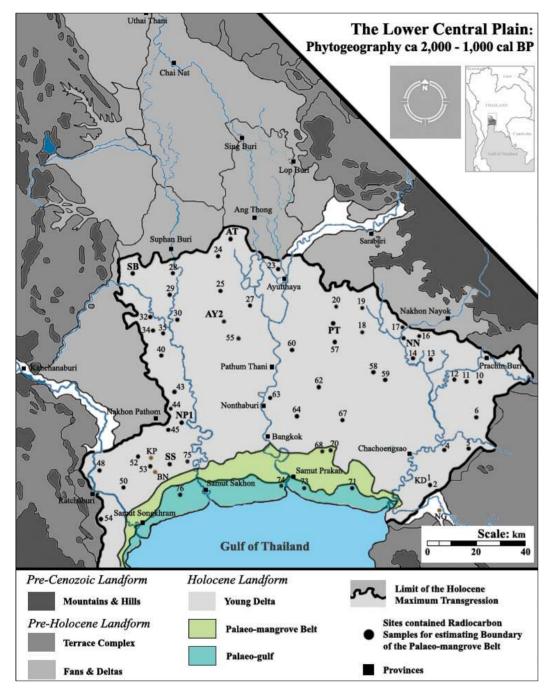


Figure 16: Phytogeography of the Lower Central Plain, Stage 5 [Drawing by Trongjai Hutangkura].

In the first millennium CE, the shoreline moved further southward to southern Nakhon Pathom and most parts of Bangkok and Chachoengsao [Figure 16: Stage 5]. The sediments of the mangrove belt at this stage might correspond with the upper parts of the Bangkok clay horizon in the radiocarbon sampled sites nos. 68 and 70. The upper parts of the Bangkok clay horizon, i.e. sites nos. 71, 73, 74 and 76, were used in estimating the boundary of the shallow sea area. This stage corresponds with the Dvāravatī historical period, the first "indianised" culture of people who settled in ancient central Thailand (Clarke, Gallon, Indorf, Revire and Thanik, this volume). The culture is variously dated between the sixth and the eleventh centuries CE. Even in that period of time, no Dvāravatī sites have been found in the areas of the Lower Central Plain. The absence of ancient archaeological sites or cities from this period implies that the vast area between Ang Thong and present-day Bangkok was still inadequate for city construction. The area might have been occasionally flooded and might be described as a young floodplain [Figure 17].

The absence of ancient cities in the area of the Lower Central Plain has led to misunderstanding about the form of the Dvāravatī-era palaeogulf of Thailand. Without applying geomorphological information and radiocarbon dates, previous studies on the palaeo-topography of the first millennium CE initially suggested that these Dvāravatī cities had been located close to the palaeo-shoreline and that the plain was a large palaeo-gulf (Phongsi & Thiwa 2524; Thiwa 2526; Mudar 1999). Based on recent information on landform evolution and radiocarbon dates, it appears that the alleged "large palaeo-gulf" of previous studies actually correspond with the palaeo-gulf of the Holocene Maximum Transgression at *circa* 6,400 BCE.

Radiocarbon dates of giant oyster assemblages confirm that the palaeo-shoreline had moved southerly to Pathum Thani (site no. 55) between 4,600 and 4,200 BCE and to Nonthaburi (site no. 63) between 3,300 and 2,800 BCE. The radiocarbon sample from northern Bangkok (site no. 64) that provides the calibrated age range of 700 BCE to 100 CE also indicates that the last mangrove forest had already existed in northern Bangkok before the rise of the Dvāravatī culture, around 600 CE. Therefore, the northern limit of the palaeo-gulf during the Dvāravatī period could not exceed the vicinity of Bangkok.

Historical documents attest that the first city in the Lower Central Plain was only constructed in the fourteenth century CE. The oldest document that refers to the existence of an urban site in the area is the *Royal Chronicle of the Old City of Ayutthaya* (Anonymous 2547: 3). It describes Wat Phanan Choeng as the oldest temple of Ayutthaya, built in the year 1324 CE. The first generation of people in Ayutthaya had thus established themselves in the Lower Central Plain since at least the early fourteenth century, before the city was proclaimed the new capital of the Ayutthaya kingdom in 1350 CE.

Evidence from other indirect historical documents suggests that urban construction in the floodplain area of the Lower Central Plain had begun at least by the early fourteenth century, but perhaps not before the thirteenth. Moreover, the position of the recent shoreline has not changed since the fifteenth century.

## Conclusion and an Afterword

Sedimentary sequences of the Lower Central Plain contain three palaeoenvironments: mangrove ecology, transitional zone and floodplain environment. The mangrove ecology is indicated by the dominance of *Rhizophora* pollen assemblage; the transitional zone by dominance of pollen types of *Derris indica*, *Acrostichum aureum*, *Stenochlaena palustris*, *Ceratopteris thalictroides*, *Pteris* sp., and *Azolla/Salvinia*; and the floodplain environment by the dominance of *Gramineae* and *Cyperaceae*.

Pollen evidence confirms that a mangrove belt covered most of the palaeo-shoreline of the Lower Central Plain. Radiocarbon dating of samples from the SB site yields estimates for the palaeo-shoreline of the Holocene Maximum Transgression of *circa* 8,500-8,400 cal BP or 6,500-6,400 BCE. Remote correlation of the past sea level based on the oyster assemblage suggests that the sea level of the Holocene Maximum Transgression must have been higher than 2 m. and the Holocene Regression began after approximately 5,000 BCE.

In addition, phytogeographical information indicates that prehistoric settlements were absent in the Lower Central Plain before circa 3,000 cal BP (Stage 3) because most parts of the plain had been covered by the young Delta, the palaeo-mangrove belt and the palaeogulf. In prehistoric sites published by Higham and Rachanie (2012), all Palaeolithic and Hobinhian culture sites, dated roughly from 10,000 to 5,000 BCE, disappeared from the Lower Central Plain during this period. However, some sites such as Khok Phanom Di, Khok Phlap and Ban Nong Song Hong were still found in low terrace areas around the Lower Central Plain. This seems to suggest that prehistoric people lived in mountainous and terrace areas at the period of the Holocene Maximum Transgression, circa 6,400 BCE. It is also possible that the Palaeolithic people of the Late Pleistocene period, dated 126,000-12,000 BCE, might have settled in palaeo-valleys corresponding to the ancient topography of the plain before the Holocene rise in sea level. Consequently, prehistoric people of the early to middle Holocene period, circa 10,000-5,000 BCE, could not have settled in most parts of the young deltaic plain because the land might have been occasionally inundated by seasonal floods.

Moreover, the above phytogeographical information also disproves the long-accepted theory that the boundary of the palaeo-gulf as proposed by Phongsi and Thiwa (2524) dates from the Dvāravatī period (ca mid-late first millennium CE). In all likelihood, that palaeo-gulf boundary belongs in fact to the Holocene Maximum Transgression (ca 8,500-8,400 cal BP, or 6,500-6,400 BCE). The northern boundary of the palaeo-gulf during the Dvāravatī period was probably in the vicinity of present-day Bangkok and Samut Prakan. In any case, during the early historical period (ca first millennium CE), people could not inhabit the young deltaic plain because sedimentation along the rivers. or the so-called natural embankments, might have been too low to avoid the seasonal floods. Dvāravatī cities were therefore only established on the terrace areas of the Lower Central Plain. The scenario of the vast seasonal flood plain of Dvāravatī, covering areas between the present Ayutthaya and Bangkok [Figure 17], can be seen today along the local roads of Nakhon Pathom, Nonthaburi, Samut Sakhon and Samut Prakan. These areas are dry in summer, but they are full of freshwater

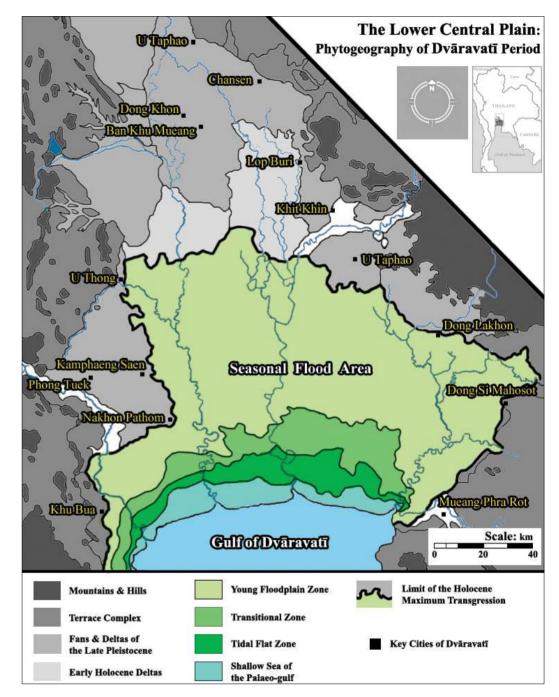


Figure 17: Reconstructing map of the phytogeography during the first millennium together with locations of key Dvāravatī cities [Drawing by Trongjai Hutangkura].

and weeds through the rainy season. The seasonal floodplain areas have, however, been encroached upon by rice agriculture and housing projects in ways ill adapted to the geography of the area. Chronic flood problems in the Lower Central Plain, especially the large 2011 flood, have been caused by land elevation for residential building projects that block natural floodways of the Lower Central Plain. In effect they form many small barrages in the flood plain area that has created a complex blockage. As a result, in the year 2011, a huge mass of floodwater was blocked and remained in most parts of the plain during September and November.

Historical documents (Anonymous 2479 and 2547) cite that the "Ayutthaya people" established the first cities in the Lower Central Plain. The absence of local archaeological evidence of city construction before the fourteenth century implies that this area had long been considered unfit for large settlements because of the seasonal floodplain topography. Wetland and marshy areas could have been the palaeo-environment of that early historical period as attested by the occurrence of sedimentary sequences containing high percentages of freshwater fern spores and *Gramineae* and *Gyperaceae* pollen grains in the weathered clay horizon.

While large settlements might not have been established in the Lower Central Plain up to the fourteenth century, small and temporary villages could, however, have flourished along the embankments of the main rivers and their branches. However, as yet no archaeological evidence confirms or supports such an hypothesis. Interestingly, some administrative towns such as Mae Klong (present-day Samut Songkhram city), Tha Chin (present-day Samut Sakhon city) or Pak Nam (presentday Samut Prakan city) of the latter period of the Ayutthaya kingdom (1350-1767) in the Lower Central Plain were located on natural embankments along the main rivers of the plain. As for Bangkok, it is likely that the first elements of this town were built on the western side of the Chao Phraya bank, which is the present Thon Buri. The Ayutthaya Chronicle of Phanchanthanumat (Choem version), makes first mention of Thon Buri giving the year 1555 CE (Anonymous 2479: 87). There is no trace of the name of Bangkok before then. Thon Buri could be said to have been built by at least the sixteenth century CE and the village of Bangkok, located on the other side of the bank, could have been settled at a later time. Thon Buri and Bangkok were mentioned together in the reign of King Narai the Great (1656-1688) by Simon de La Loubère (1700: 8) who recorded their names as Fon and Bancok.

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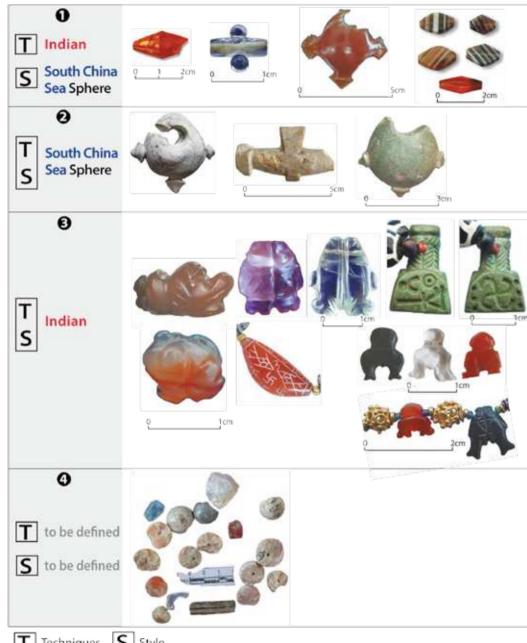
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### **4 GROUPS OF HARD STONE PRODUCTIONS**





# The Development of Coastal Polities in the Upper Thai-Malay Peninsula

Bérénice Bellina *et al.* PRAON SILAPANTH, BOONYARIT CHAISUWAN, CHOLAWIT THONGCHAROENCHAIKIT, JANE ALLEN, VINCENT BERNARD, BRIGITTE BORELL, PHAEDRA BOUVET, CRISTINA CASTILLO, LAURE DUSSUBIEUX, JULIE MALAKIE LACLAIR, SACHIPAN SRIKANLAYA, SOPHIE PERONNET, THOMAS OLIVER PRYCE]

# Introduction

The late fourth and third centuries BCE witnessed the political L unifications of Mauryan India (including north India after 321 BCE, and most of the subcontinent by 265 BCE) and Han China (206 BCE-220 CE), and the completion of connections between the different regional networks linking the classical western world and Asia. This chain of intertwined networks inaugurated a trading boom and major transnational cultural processes. For Southeast Asia, a producer of several products sought after by her two major economic and political neighbouring regions of China and South Asia, this interconnection opened an avenue to economic and cultural integration. It is argued herein that the inception of this network coincided with the fashioning of political and socio-cultural configurations that predicted certain patterns described for the later historical periods.

It is also argued that the much earlier integration within longdistance maritime networks of pre-existing local and regional networks had already allowed, and encouraged, the emergence of a chain of separate, independent, local "trading" polities both in what is today South Asia and in Southeast Asia. Evidence tends to suggest that the levels of complexity and the sizes of these polities varied, contributing to the development of a hierarchy and possibly to different economic specialisations within this network. Economic specialisation seems to have involved various social groups at distinct socio-political levels of organisation, and occupying different environments. Amidst those emerging exchange-based complex polities, the "port-entrepôts" or port-cities constitute the focus of this essay.

By the final centuries BCE, certain port-cities were already able to concentrate control over both local and far-reaching ties. The economic and cultural vitality of some of these nodes acted as catalysts for the creation of syncretic cultural configurations, amongst which, it is argued, were a shared cosmopolitan-type of urbanism and culture that touched spheres of life ranging from material culture (daily life utensils and technologies) through the ideational sphere and even culinary preferences. Such assertions are based on the results of recent investigations led by the Thai-French archaeological mission, working in the upper Thai-Malay Peninsula since 2005, and by the Thai Fine Arts Department. The essay thus emphasises continuity, in the sense

**Opposite Figure 1:** Hard stone ornament types of productions identified at Khao Sam Kaeo based on morpho-technological criteria [Photographs and drawing by Bérénice Bellina].

that the so-called Silk Road networks did not emerge *ex-nihilo* but developed out of a pre-existing chain of socio-economic and political networks that crystallised in the maritime "Silk Road" trade, allowing the fashioning of broader transregional socio-economic practices, the results of hybridised cultural traits processed in the coastal port-cities.

# The Early Importance of Coastal Polities and Transpeninsular Routes

The research presented here has been conducted in the Kra Isthmus area, in the present-day provinces of Chumphon to the east and Ranong to the west, where the peninsula is the narrowest, approximately 50 kilometres. The Isthmus can be seen as a stepping stone between the Bay of Bengal and the South China Sea, and the authors of this collective essay believe that its transpeninsular routes were used even before the Mauryan and Han unifications took place, for early exchange among independent polities located around the two basins, before circumnavigation of the peninsula began to be used in the first century BCE at the earliest (Wheatley 1961: 12). The early use of the northern transpeninsular routes is conjectured and based on a reference in the *Qian Han Shu* which alludes to the mission sent by the Han Emperor Wu (r. 140-87 BCE) to the kingdom of "Huangzhi," said to have been located at Kanchipuram, Tamil Nadu, in southern India (Wheatley 1961: 8-13).

The intensity of the use of transpeninsular routes during the historical periods fluctuated depending on the political situation and the prevalence of piracy. The use of Isthmian land routes, which crossed over very irregular terrain, implies that travel required combining different modes of transport (men, porters, wagons, pack animals – including elephants –, bull carts, boats, rafts, and pirogues). According to the season and the route, the duration of a journey could vary tremendously from a week to a month (Andaya 2008).

Even if the use of transpeninsular routes was not easy, they had the advantage of shortening the journey. Based on Chinese accounts, Paul Wheatley (1961: 12) estimates that their use saved about four months on a total journey from South Asia to China (twelve months as against sixteen). Until recently, the region and its transpeninsular routes that lack major monumental Brahmanical or Buddhist remains were felt not to have played any major historical role. Michel Jacq-Hergoualc'h (2002: 104), for example, concluded that "Panpan," which is known from Chinese sources to have emerged around the fourth century CE, was the earliest "indianised" city-state of the peninsula, but that the actual remains of fully fledged "indianised polities" only appeared from the fifth century CE onwards and further south from the regions of Chumphon-Ranong.

While the upper part of the peninsula is devoid of monumental remains, its archaeological sites are rich in debris of local industries including metal-, glass- and, stone working, dating in some cases to the Metal Age from the fifth century BCE. It is this richness in industrial remains that opened the avenue to investigate the development of the coastal polities that produced them. The analysis of these remains at certain sites revealed complex technological transfers and hybrid production techniques which suggest that early and close contacts between populations occupying the two maritime basins took place there. These remains and associated structural remnants unravelled complex socio-economic structures and their close association with the emergence of exchange-based, complex polities at the end of the first millennium BCE.

Although work is being conducted at sites of various types in the peninsula, in particular those of the forested interior, this essay focus on partly contemporary port-entrepôts situated on the two coasts of the upper peninsula that might have been located at the two ends of sets of northern transpeninsular routes: Khao Sam Kaeo on the east coast and the complex of Phu Khao Thong/Bang Kluai Nok on the west coast **[Map 1]**.

Khao Sam Kaeo, on the east coast of the peninsula, excavated for five seasons by a French-Thai team, has proved to be an early urban settlement with socio-professional quarters delimited by series of walls and embankment berms, and characterised by a hydraulic system. There, several highly specialised industries implementing foreign technologies were producing prized products, some of which were clearly part of the symbolic assemblage shared by maritime Southeast Asian elites. The overall configuration at Khao Sam Kaeo finds no comparison yet in contemporaneous Southeast Asian settlements but predicts those of certain later maritime city-states that thrived along the fringes of the South China Sea – e.g. sites like Pasai, Banten and Malacca. One of the goals of the archaeological research at Khao Sam Kaeo, however, is to focus on production and its organisation, an aspect rarely and poorly described by later historical sources for these early polities.

Phu Khao Thong, on the west coast of the peninsula, is a smaller site that seems to have been part of a complex of sites in the Kluai



Map 1: Map showing Khao Sam Kaeo on the east coast and the complex of Phu Khao Thong/ Bang Kluai Nok on the west coast [Drawing by the Thai-French archaeological mission]. Bay. This complex includes Bang Kluai Nok, which yielded a significant amount of material from South Asia, and, further west, two very small sites, Bang Khlak 1 and Bang Khlak 2.

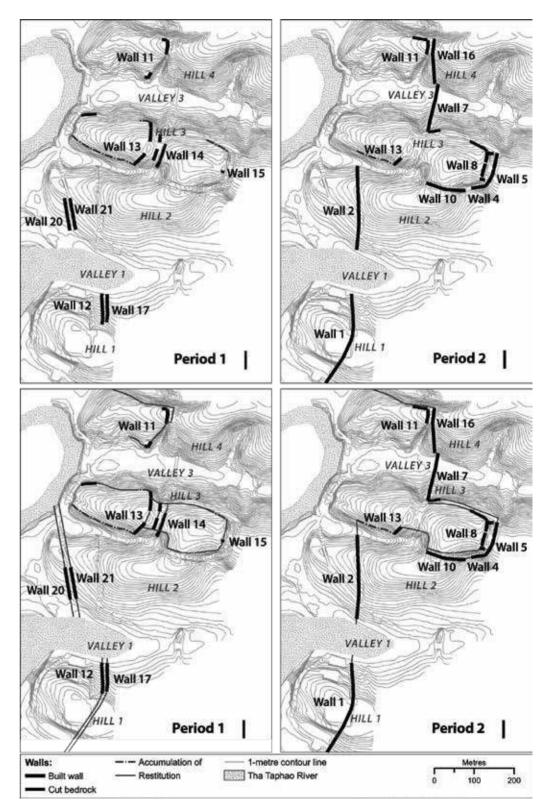
# Khao Sam Kaeo

Our excavations at Khao Sam Kaeo from 2005 to 2009 revealed a coastal complex polity of cosmopolitan and proto-urban character whose emergence seems clearly linked to the development of the maritime silk roads. Based on the radiocarbon-dating results of 30 samples consisting of charcoal, wood, and organic material, using conventional (13) and AMS (17) radiocarbon analysis, the site is securely dated to the very early fourth to second or first century BCE.

Located five kilometres from the coast today, the site extends over four hills; it is limited on its western side by the Tha Taphao river, which connects it with the Gulf of Thailand and the China Sea in the east and with resource-rich forests in the north. One hundred and thirty five test pits opened (2 x 2 m.) over an area of 55 hectares revealed an occupation stricto sensu over 35 hectares delimited by walls and palisades; however, erosion of the western part of the site by the river makes it difficult to estimate the size of the area it occupied [Map 2]. The bordering walls include simple and twin parallel earth walls that were probably surmounted by wooden palisades that do not survive. A ditch usually ran beside the wall. In the steepest parts of the hills, indirect evidence suggests that wooden palisades were placed in cuts in bedrock. These ramparts were probably built during two main phases, the second apparently corresponding to an extension of the site towards the north. The presence of these ramparts expresses a double concern: first to retain sediments upslope and upstream, avoiding the erosion and redeposition that are induced by heavy monsoon rains (Allen 2009), and second to delineate the urban space, delimiting specialised zones (Malakie LaClair 2008: 28-33).

The enclosing system finds no comparison amongst contemporaneous Southeast Asian sites, which, except in the case of the Co Loa citadel in northern Vietnam, consist of a moat surrounding the site. At Khao Sam Kaeo, in contrast, valleys were crossed by earth walls. Their structure varied according to their role. The wall in Valley 1 aimed at maintaining a flooded area, that probably corresponded to a mooring place for boats sailing up the river; the wall prevented its silting-in. On the other hand, the succession of earth walls blocking Valley 3 aimed at containing the water streaming from the hills towards the west; this system kept the western part of the valley dry and retained water in its east, upstream zone, which may have been dedicated to agriculture (Bellina-Pryce & Praon 2008).

As for agriculture, Cristina Castillo's research (2009 and 2011) indicates that dryland cultivation was practised on the hills. The archaeobotanical finds so far include rice and foxtail millet, crops that originated in China, as well as mung beans and horse gram, which are of South Asian origin. Evidence for dryland cultivation is also found further south on the peninsula, where, for example, it supported historical city-states in Kedah, on the north-western coast of peninsular Malaysia, from the early centuries CE to the middle of the second millennium (Allen 1991 and 1999).



**Opposite Map 2:** Map of Khao Sam Kaeo suggesting two stages of rampart erection [Drawing by the Thai-French archaeological mission]. The morphology of the settlement of Khao Sam Kaeo resulted from both the natural landscape and fully human-constructed boundaries. The encircling walls do not trace a distinguishable geometric or other cultural pattern but follow the natural topography, even enhancing it. Their morphology and the configuration of the site are not comparable to those of the contemporaneous irregular concentric-moated sites of northeast Thailand, the Mimotian sites in Cambodia, or the northern Vietnamese citadel of Co Loa, 17 kilometres north of Hanoi (Kim *et al.* 2010).

Khao Sam Kaeo's enclosed pattern finds pertinent comparisons with early cities that emerged in northern Indian polities from the mid-first millennium BCE onwards (Smith 2003: 274-275). Data concerning the morphology, size, structure, and network integration of early historical cities is still sparse, and the changes made during long-term occupations of settlements greatly limit the understanding of their earliest phases. Nonetheless, it appears that cities were situated, for the greater part, on flat lands of low or average height but took advantage of hills, hillsides, and other higher elevations punctuating the landscapes (Deloche 1992). The early cities in northern India were not uniform in plan and seem to have been adapted to local topography, especially when integrating a river. They were delimited by ramparts, each consisting of an earthen structure constructed of fill excavated from an adjacent ditch, and laid out to follow the natural topography (Smith 2003: 275; Deloche 1992). The ramparts served multiple purposes besides warfare, controlling floods, restricting the access of outsiders to markets, encouraging the development of civic identity, and generating social cohesion in part through the need to maintain the ramparts cooperatively at regular intervals. In any case, the ramparts embodied a level of political control capable of mobilising and organising the labour needed to produce and maintain them (Smith 2003: 280-283). As for their size, they surrounded sites that range from more than 241 hectares in area (Pataliputra) to much smaller areas between 16 and 14 hectares (e.g. Bhita) (Coningham 1995: 58). It appears that Khao Sam Kaeo's morphology, location, and encircling boundary wall find more pertinent comparisons with contemporaneous Indian cities than with contemporaneous Southeast Asian settlements, although the cities in both regions at the time were small, independent polities, not parts of a unified nation-state, like today's Thailand or India.

The occupation area at Khao Sam Kaeo was delimited by the walls. No structures other than the hydraulic ones have been found outside the boundary walls. Inhabitants built structures on piles and on terraces set on plateaux and the gentle slopes of the four hills. The bases of the hills and the river banks were also occupied. Occupied zones are characterised by domestic or craft structures of small dimensions (terraces, floors, wells, low walls, drains, and holes left by posts) and by monumental structures (pathways with drains and terraces). The network of habitations on piles and terraces was dense and is characterised by accumulations of terraces and drains.

All craft activities (iron, copper-base alloy, and hard stones) expanded both on the plateaux and at the bases of the hills, except that the lapidary glass, stone, and glass-bracelet craft centres have been identified exclusively in the lower parts of Valley 1 and along the river. The western and low slopes of Hill 2 seem to have held a cemetery,

which we could not excavate but which yielded a rich small-material assemblage (hard stone ornaments, glass, and gold) and thick jars.

The study of the occupation of the site combines data from the excavations of the settlement with the results of technological analysis of the artefacts, an approach from the anthropology of techniques (Bellina-Pryce & Praon 2008: 260). Data from technological analysis, integrated in Geographic Information Systems (GIS), reveal a spatial distribution by groups in different zones; a series of statistical tests has established that this distribution is statistically significant (Malakie LaClair 2008: 28-33).

Two clearly defined zones emerge from the spatial analysis: a southern area corresponding to Hills 1 and 2, most likely used for indigenous occupation, and a northern area, including Hills 3 and 4, occupied by various Asian groups: South Asian, Southeast Asian, and East Asian.

The southern part of the site provides objects whose style is South China Sea-related, and locally produced, using:

- techniques found in Southeast Asian areas around the South China Sea, as for instance certain types of shell-incised ceramics that relate to the Sa Huynh-Kalanay complex elaborated by Wilhelm Solheim (Bellina *et al.* 2012);

- Indian raw materials were probably worked under the aegis of a few experienced Indian craftspersons. These productions comprise ornaments in hard stone (Bellina 2003 and 2007; Bellina-Pryce & Praon 2008) and facetted lapidary-worked glass ornaments that is ornaments whose "chaîne opératoire" used some lapidary techniques. The lapidary glass beads and an important proportion of the bracelets are made from a transparent green glass with a m-Na-Al 3 composition, which is particularly abundant in the southern part of the site and has been identified at other contemporaneous sites around the South China Sea (Dussubieux & Bellina, forthcoming). Evidence of primary m-Na-Al 3 glass manufacture in northeastern India indicates a possible source area for the same type of glass found at Khao Sam Kaeo. Both ornaments implemented Indian lapidary techniques (Bellina-Pryce & Praon 2008), and are characterised by a high level of expertise that necessitates an apprenticeship of several years (Roux 2000). The presence of a fully-developed glass industry, involving complex technologies, in the earliest occupation levels makes it very unlikely that this glass tradition evolved locally.

The hard-stone ornament production **[Figure 1]**, referred to as "South China Sea siliceous production," and found in the southern part of the settlement, consists of both finished and unfinished products. This type of production, combining Indian raw material and highly skilled Indian technologies with South China Sea-related style, is the earliest hard stone tradition identified in Southeast Asia, beginning in the fourth century BCE and found in central Thailand (Ban Don Ta Phet), central and southern Vietnam (Sa Huynh sites) and Palawan in the Philippines (Tabon caves) (Bellina 2001: 280, 2003: 291 and 2007: 33).

This type of production shared a workshop with those producing facetted glass beads and bracelets, at the bases of Hills 1 and 2. Other stone-working workshops occupy the summits of Hills 3 and 4, and both iron smithies are located on Hill 3's western and eastern plateaux.

The northern part of the settlement (Hills 3 and 4) yielded evidence for habitation and for different types of craft production associated with various groups from South, Southeast, and East Asia. Some materials were imported; others were locally produced with exogenous or local techniques.

Materials associated with South Asia were found concentrated on both plateaux of Hill 3. They consist of goods that were imported, like Indian rouletted and knobbed ware (Bouvet 2008 and 2012: 318, 429-449); or locally produced. Local wares include some Indian-influenced Fine Wares (Bouvet 2012: 441-443) and hard-stone ornaments whose skilled manufacturing techniques, good-quality materials, and certain stylistic elements appear either South Asian or South Asian-inspired. The stylistic repertoire includes auspicious symbols, for some of which we do not know the ancient name or significance (triratna, minavugala, svastika, hamsa, and nandipāda). A third category includes owners' names inscribed on seals in Prakrit, written with Brāhmī characters; some of these are unfinished [Figure 1]. This north part of the settlement also vielded evidence for the transfer of Indian metallurgical technologies to local craftspeople, especially those involving high-tin bronze (Murillo-Barosso et al. 2010). Fragments of high-tin bronze bowls decorated with Indian motifs comparable to those found in central Thailand (Ban Don Ta Phet and Khao Chamuk) have been recovered at Khao Sam Kaeo by looters (Glover & Bellina 2011: 35; Glover & Shahnaj, this volume). This type of bowl was used by numerous Southeast Asian communities during the late prehistoric period and constitutes one of the pieces of evidence for early contacts with polities in certain areas of the Indian subcontinent (Bellina & Glover 2004). It appears most likely that Khao Sam Kaeo imported the copper (in metal or mineral form), which is lacking in the Thai-Malay Peninsula, and exploited the rich tin ores of the peninsula, to produce high-tin bronze ingots for bowl manufacture or exchange (Pryce et al. 2008; Murillo-Barroso et al. 2010). Furthermore, Khao Sam Kaeo's high-tin bronze production represents the most ancient evidence for exploitation of the peninsula's vast tin resources, an industry whose importance to Arabic trade during the historical period is well known (Murillo-Barroso et al. 2010).

The earliest iron-working evidence recovered on the peninsula comes from a workshop on the eastern plateau of Hill 3, a workshop later covered by a wall but that was active during the fourth to second centuries BCE (Bellina-Pryce & Praon 2008). At Khao Sam Kaeo, smithing was practised but, as opposed to other technologies, seems to have involved only rudimentary skills, while bloomer-smelting was common (Biggs *et al.* 2013).

Materials recovered at Khao Sam Kaeo also attest to links with the insular world of the South China Sea. These include imported ceramics, which represent a minority at the site (Bouvet 2009 and 2012: 433; Bellina *et al.* 2012: 14-15), and ornaments such as bicephalous ornaments and *lingling'o*, which were produced in the workshops of Hill 3 using imported materials **[Figure 1]**. Analysis of nephrites recovered, indicates that part of that material assemblage originated at the eastern Taiwanese source of Fengtian. Green nephrite from Fengtian was used to make these two very specific forms of ear pendant, which were distributed along a network that extended from the Philippines, eastern Malaysia, southern Vietnam, and eastern Cambodia to peninsular Thailand (Hung *et al.* 2007; Hung & Bellwood 2010).

Hills 3 and 4 also vielded what is currently the most abundant Western Han (206 BCE-9 CE) Chinese artefact corpus found outside China and northern Vietnam. Metal artefacts include a complete bronze mirror of the type called *xing* yunjing ("mirror with stars and clouds"). A mirror fragment from Khao Sam Kaeo is fairly similar to Western Han mirrors recovered in central and southern Vietnam (Pryce et al. 2008: 11). The Han-style metallic assemblage also includes a prismatic arrowhead comparable to examples found in quantity at Co Loa Citadel near Hanoi in northern Vietnam, an axe, and two bronze seals. One of these seals which has been dated to the first century BCE has a turtle shape and bears an inscription that reads in Chinese: Lü Yougongvin, that is "the seal of Lü Yougong," Lü being a common family name during the Han dynasty (206 BCE-220 CE). Eighty-four Han-style ceramic storage-jar sherds were recovered on Hills 3 and 4 [Figure 2]. Most are decorated with a seal-on-net design. This net pattern was very popular throughout the Han dynasty, especially in South China around Guangdong (Canton), but also in northern Vietnam, in the province of Thanh Hoa. Twenty sherds are stamped with a "checkered design," a pattern very popular in eastern China during the Han period; jars with this design are numerous in tombs in Zhejiang, Jiangsu, and Anhui provinces.

Also related to eastern China are two handles decorated with animal masks (Peronnet & Sachipan, forthcoming).

Finally, Hill 4 hosted another type of stone production, one characterised by lower-quality mass-production techniques and large numbers of similar or identical items. The extensive and rapid looting that took place on Hill 4 did not give us much opportunity to observe many ornaments or to define the style. It seems to include large spherical and ellipsoid beads and flat agate pendants like those found at prehistoric sites in central (Bellina 2001: 145, 157, Table 5; Bellina 2007: CD Rom) and northeast Thailand, such as Noen U Loke (Theunissen 2007). It is likely that this hill was used at the very late stage of the site's activity.

### Discussion on Khao Sam Kaeo

Thriving local populations occupied the southern part of the settlement. They had been participating in the South China Sea sphere of interaction, probably for a long time already. During the period when the site was most active (ca late fifth-second centuries BCE), autonomous polities engaged in exchanges of commodities such as tin and "prestige goods" like Dong Son drums and developed a shared symbolic and material culture.



Figure 2: Han style ceramics recovered at Khao Sam Kaeo on Hills 3 and 4 [Photographs by Bérénice Bellina]. When the Bay of Bengal and the South China Sea networks were interconnected by nodes such as Khao Sam Kaeo, merchants and also craftspeople could access products and markets from different Southeast Asian networks. At Khao Sam Kaeo, the earliest industries are believed to have involved South Asian craftsmen who used highly skilled traditional Indian techniques to produce very fine-quality goods of types that fit within the South China Sea cultural repertoire. Khao Sam Kaeo's central role in the maritime trade network would have been strengthened initially by the presence of these foreign specialists. These productions at the site would have made it a location that exerted complete control over this important, forest-to-coast, segment of the extra-regional trade network.

Quite plausibly, the few foreign craftspersons who resided at a centre and were involved in producing a mixed range of products enhanced the reputation of the polity hosting them (Bellina 2007: 92). By doing so, these foreign residents probably served the strategies of Khao Sam Kaeo's elite, who were presumably engaged in competitive exchanges with other socio-political systems around the South China Sea, a type of relationship that has been described by Colin Renfrew and John F. Cherry (1986) as "peer polity interaction." This prestige-enhancing role of the artisans probably remained important during the later occupation of the site, when the evidence suggests that some trade items were still being produced by patronised South Asian artisans.

At a later stage of the occupation at Khao Sam Kaeo (perhaps from the late fourth-third centuries BCE?), this cultural sphere integrated more ostentatious South Asian-inspired or "indianised" elements. This evidence includes elements such as the hard-stone products made on the eastern plateau of Hill 3 and also found in the cemetery area, which display symbols belonging to the "Indian" ideational world at that time, that is still undefined Brahmanical/Buddhist/Jain symbols used in small, individual polities on the Indian subcontinent. This "indianised" South China Sea product repertoire differs in many respects from what would be found in contemporaneous South Asian sites. These very fine ornaments display a wide range of morphologies, some of them only rarely or never used for ornaments in South Asia (Bellina, in press). These later "South China Sea indianised" products, motifs, and techniques, whose distribution guickly expanded within the Southeast Asian sites of the late prehistoric period, would have been produced mainly for Southeast Asian populations either in the process of "Indianisation," that is probably the coastal trading elites or those wanting the same symbolic items as those acquired by the former, at Khao Sam Kaeo or elsewhere as for instance at the contemporary site of Ban Don Ta Phet (Glover & Bellina 2011).

At Khao Sam Kaeo, South Asian specialists may have been welcomed by local elites to set up industries that played a role in the economic and political strategies of the South China Sea early trading polities. Their industries which the main author of this essay believes may have been attached to the local elite (Bellina 2007: 91-93), produced elements which became part of this cultural sphere. As early as this period some South Asian representations and technologies began to be transferred to Southeast Asia, especially in the coastal trading polities. The development of these industries and their possible close association to political strategies might be better understood if we look at other

contemporaneous sites on the peninsula that were involved at different levels of this trans-Asiatic network.

# Phu Khao Thong and Bang Kluai Nok

Phu Khao Thong or "Golden Hill," is located in Suk Samran subdistrict, Ranong province, on the Andaman coast. It is a small site that can be interpreted as an entrepôt. It may have been part of a trading complex located along the shoreline of an ancient bay, protected by small islands, such as Ko Kluai, from the waves of the Andaman Sea. Phu Khao Thong is located approximately 20 kilometres from the mouth of Kraburi river, beside which one may find a path that crosses the Isthmus of Kra.

This complex includes a bigger site, Bang Kluai Nok, and two minor

sites, Bang Khlak 1, and Bang Khlak 2,

both now completely destroyed. They all

vielded a variety of imported artefacts

and evidence for glass and semi-precious

the Fine Arts Department conducted

excavations at the base of the hill in 2006

and 2008 (Boonyarit 2011). The Thai-

French archaeological mission conducted

three surveys in May 2006, April 2007

and 2009 consisting of non-systematic

survey, section clearing, sampling and

material study. Because no in-depth

investigations could be conducted, the

nature of these severely looted sites is

difficult to interpret. The chronological

sequence of the sites is based on relative

dating, mostly of material collected on

Our survey and the mapping done on

the accessible part of the hill led us to

observe that some terraces had been cut

into the rock, as at Khao Sam Kaeo,

thus providing flat areas for activities

conducted there [Map 3]. We did not

observe any embankment that would

have delimited the site, in contrast with

activity (perhaps around the third-first

centuries BCE?) coincides with the later

period of activity at Khao Sam Kaeo. Part

of the assemblage is very comparable,

for example the Indian ceramics and

some morphological types of hard-stone

ornaments (flat lozenge, lion, nandipāda,

etc). But its sequence may have extended

Phu Khao Thong's early period of

The relief of the hill is quite steep.

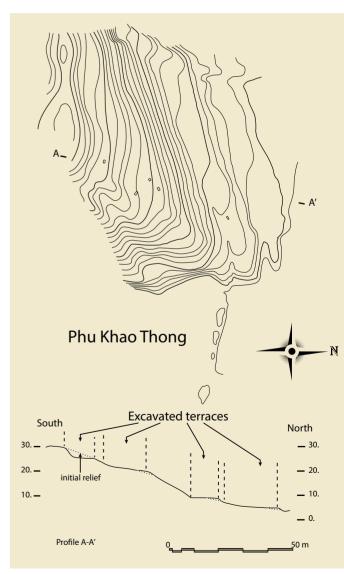
Captain Boonyarit Chaisuwan from

ornament production.

the surface.

Khao Sam Kaeo.

Map 3: Topographic profile of Phu Khao Thong [Drawing by the Thai-French archaeological mission].



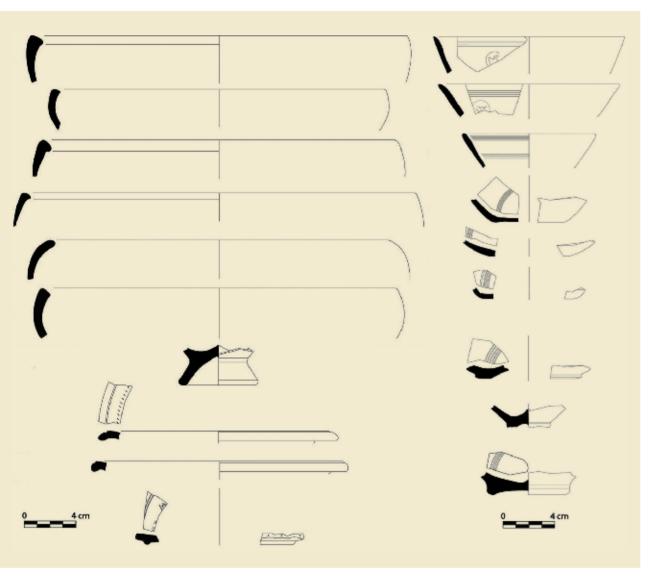
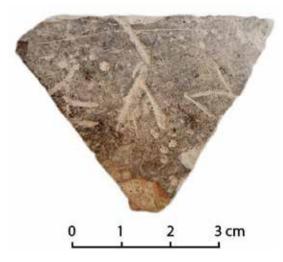


Figure 3: Fine Wares from Phu Khao Thong and Khao Sam Kaeo [Drawing by Phaedra Bouvet]. a little later, probably until the second or third century CE. As we would expect from a site located along the Andaman Sea, Phu Khao Thong yielded a significant amount of South Asian material, as well as material from further west. This is well demonstrated with ceramics.

So far, with Khao Sam Kaeo, Phu Khao Thong has yielded a large corpus of Indian Fine Wares. At Phu Khao Thong, Phaedra Bouvet (2012: 287-301) distinguished "rouletted wares," stamped and unstamped bowls, knobbed wares, dishes with a rouletted or chattered rim and a stamped leaf medallion at the centre of the inner base **[Figure 3]**.

Besides Khao Sam Kaeo, sherds of Fine Wares have been recorded on the east coast at Tha Chana (Surat Thani province) and in the caves of Tham Thuai (Thung Tako district, Chumphon province) (Bellina 2009: 122). On the west coast, sherds have been identified at the sites of Bang Kluai Nok and Wat Pathumthararam, a small riverine trading post probably of second order in Kapoe district (both in Ranong province), and Bang Ro (in Phangnga province). Bouvet's study demonstrates that Indian imports at Phu Khao Thong are much more numerous and more diverse than the imports at Khao Sam Kaeo, and that the Fine Wares may come from various Indian workshops [Figure 3].

Amongst the sherds found at Phu Khao Thong, one surface find recovered at the base of the hill during the Thai-French mission's 2006 survey is worth mentioning **[Figure 4]**. Prof. Iravatham Mahadevan and Richard Salomon (pers. comm.) tentatively identified three letters on the sherd as part of a fragmentary inscription in Tamil-Brāhmī which would seem to read  $t\bar{u}$  Ra o..., possibly part of the Tamil word turavonor turavor, which means "ascetic" or "recluse"



(Skt, *rsi* or *sannyāsin*), but not of a Buddhist kind (Skt, *bhiksu*; P., *bhikkhu*). Alternatively, Emmanuel Francis (pers. comm.) proposes *tūravam*, "common black plum," or *tūravu* for a "plum recipient." The inscription may date to the second century CE on a palaeographic basis and is the earliest Tamil inscription found so far in Southeast Asia. Parallels are found in Egypt and the Red Sea area (site of Berenike), where both Tamil-Brāhmī and standard-Brāhmī inscriptions are found. This inscription thus predates a third- or fourth-century CE inscription engraved on a touchstone from Khuan Luk Pat in Krabi province (Amara 1996: 87).

Figure 4: Sherd bearing three letters, fragmented inscription in Tamil-Brāhmī [Photograph by Bérénice Bellina].

Fragments of steatite containers **[Figure 5]** have also been found at both Phu Khao Thong and Khao Sam Kaeo. Similar early steatite containers were used or re-used as reliquaries and were found in *stūpa* complexes for example in the region of Gandhāra (modern Pakistan; Jongeward 2012). Their contents varied from bones to deposits of "treasures" (ornaments in ivory, crystal, bronze, and semi-precious stones). The systematic use of such containers as reliquaries, however, remains unproved until they are found in context. These were often and primarily used as household containers for cosmetics, scents, spices, and jewels (Jongeward 2012: 44-46). Any Buddhist connexion for the steatite containers recovered at Khao Sam Kaeo and Phu Khao Thong is therefore wanting and cannot be established at this stage. It would need confirmation through discovery of these containers *in situ* in clearly established Buddhist contexts or structures.

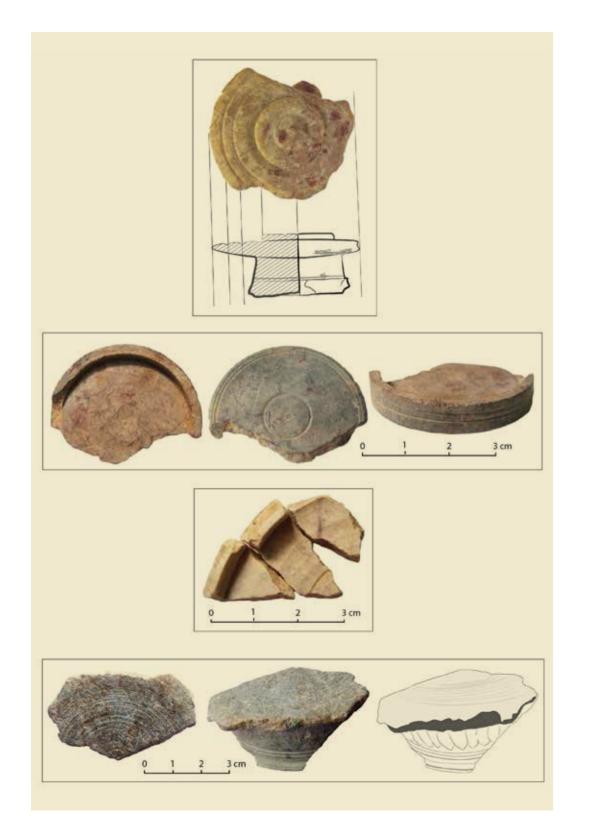
Indirect links with areas even further west, with the Roman world, are suggested by the presence of Roman-like intaglios and pendants, mosaic glass, a granulated gold bead comparable to specimens from Iran, and a fragment of glazed ware. These items place Phu Khao Thong in a trading network that extended beyond the Bay of Bengal. Several intaglios dating to the Roman Imperial period (from the late first century BCE to the third century CE) have been reported from southern Thailand, from Khuan Luk Pat (Krabi province), Tha Chana, another port-entrepôt of the early centuries CE (Surat Thani province), and from both Phu Khao Thong and Khao Sam Kaeo (Borell *et al.*, this volume).

**Opposite Figure 5:** Fragments of steatite containers found at Phu

Khao Thong and Khao Sam Kaeo

Photographs and drawings by

Bérénice Bellina].



Phu Khao Thong yielded one fragment of turquoise-glazed ware or pottery **[Figure 6]**. Similar discoveries were also found in the peninsula at sites including Takua Pa (Lamb 1963), sites in Kedah, Malaysia (Allen 1988: 483-486), and Kota Cina, Sumatra in Indonesia (Milner *et al.* 1978). Jane Allen (1988: 484) believes that these wares were used by visiting merchants, rather than as trade wares. This type of pottery was probably manufactured in modern-day southern Iraq, for example at the kilns in Old Basra and in southern Iran (Mason & Keall 1991: 52-55). The turquoise ware has a wide distribution, reaching coastal sites around the Indian Ocean from Tanzania to Pakistan and Southeast Asia and travelling as far east as Japan (Glover 2002: 167-173).

This extensive distribution network is further supported by the analysis of glass, part of which was imported from the Mediterranean world (Dussubieux *et al.* 2012). Of particular interest is a fragment of a moulded bowl from Phu Khao Thong made of mosaic glass composed of cane sections fused together, which create spirals of opaque yellow in a matrix of translucent green that Brigitte Borell dates from the late second century BCE to the early first century CE.

Moulded glass bowls, in particular the ribbed type, were part of the traded commodities in the Indian Ocean, from the Red Sea coast to the sites at Pattanam, Arikamedu, and Dharanikota on the Indian subcontinent (Cherian 2010: 271-272). They appear to have been massproduced from the first century BCE to the first century CE. Another parallel with Arikamedu can be made through two types of glass (potash and m-Na-Ca-Al/Arika glass) present in identical proportions at the two sites, suggesting not only that both sites were ports of entry for these types of glass in South and Southeast Asia but also that Arikamedu and Phu Khao Thong were parts of the same trade sphere, with longdistance connections.

Connections between exchange-based polities on the western coast of the peninsula and South Asia and areas further west are also attested at the neighbouring site of Bang Kluai Nok. This evidence can only be introduced briefly because of the lack of excavation and the resulting dearth of context. Like Khao Sam Kaeo and Phu Khao Thong, the site occupies a small hill that might have been suited for settlement. As at Phu Khao Thong, we did not observe any evidence of embankments.

The site yielded finished siliceous stone ornaments and evidence for glass bead manufacture. It is worth noting that no stone industrial remains seem to have been reported so far at this site, in contrast with the clear workshop evidence found at both Phu Khao Thong and Khao Sam Kaeo. Bang Kluai Nok also yielded an intaglio with a horse motif of Indian inspiration and probably relatively early, perhaps first century BCE (Borell *et al.*, this volume, fig. 7). It also produced a fragmented cameo of Roman Classical inspiration that shows a "Bacchic scene" probably dating from the late first century BCE to early first century CE.

In addition to the already-mentioned Fine Wares, Bang Kluai Nok yielded evidence from the South China Sea and mainland Southeast Asia in the form of a coin of "rising sun and *śrīvatsa*" Type A. Similar coins have been attributed to sites in Myanmar (Halin and Binnaka), to the Dvāravatī realm in Thailand (U Thong),



Figure 6: Fragment of a turquoise glazed ware or pottery recovered at Phu Khao Thong [Photograph by Bérénice Bellina]. Figure 7: Original golden seal with a Brāhmī inscription from Bang Kluai Nok (left) and its mirror image (right) [Photograph by Boonyarit Chaisuwan].



and to the Funan region in Cambodia and southern Vietnam (found near Ho Chi Minh City and at Oc Eo) (Wicks 1992: 117).

Like Phu Khao Thong, Bang Kluai Nok has also yielded a significant Brāhmī inscription in reverse on a golden seal **[Figure 7]**. This inscription is in Sanskritised-Prakrit and surrounds a representation of a *bhadrapīţha* or auspicious seat/throne. Once inverted, Oskar von Hinüber and Peter Skilling have been able to read the inscription as *brahaspatiśarmasanāvikasa* which can be rendered as "Of the sailor/ captain Brahaspatiśarma." Skilling believes it may date to the first to second century CE and von Hinüber to the fourth century CE at the latest (pers. comm.). This inscription adds to the known *mahānāvika* references such as the famous "Buddhagupta" stone slab, which was found in Seberang Perai (formerly Wellesley province), Malaysia (Chhabra 1935: 22; Allen 1988: 253-265).

Finally, Bang Kluai Nok also provided material from China, in the form of two fragments of Eastern Han (25-220 CE) mirrors, thus providing further argument for the possible use of the transpeninsular routes between the east and the west coasts. The maritime route would have been a very long journey, whereas at this point, the Isthmus is narrow and could be crossed relatively quickly on a pathway like the one mentioned above, beside the mouth of the Kraburi river.

### Discussion on Phu Khao Thong and Bang Kluai Nok

We are well aware that the lack of in-depth investigation at the sites on the west coast and their destruction greatly limit interpretation of their economic and political organisation as well as any comparisons with Khao Sam Kaeo on the east coast.

The first limitation is affected by the hazy respective dating of Phu Khao Thong and Bang Kluai Nok. Both sites contain materials, most out of context, that date stylistically to the late centuries BCE or the early centuries CE. Phu Khao Thong produced late-century BCE material similar to some at Khao Sam Kaeo, such as the Fine Wares (rouletted ware, stamped ware, etc.) and the Sasanian-Islamic turquoiseglazed ware, which dates to between the seventh and the eleventh or twelfth century CE. Bang Kluai Nok yielded fewer Fine Ware sherds than Phu Khao Thong, but produced Eastern Han material, as well as intaglios and cameos that probably date to the initial centuries CE; it also provided mid-to-late first-millennium CE objects such as the *stīvatsa* coin. Were Phu Khao Thong and Bang Kluai Nok active exactly at the same time? Was there a period when their activities overlapped, or did Bang Kluai Nok emerge after Phu Khao Thong's decline?

A second limitation affects our understanding of the specialisation at each of the four sites. Phu Khao Thong appears small but concentrates more evidence for ornament production (glass and stone industries) than Bang Kluai Nok. Meanwhile, Bang Kluai Nok's topography appears more appropriate for settlement, and the site yielded evidence for more recent occupation. On a political level, the question remains as to whether they belong to the same political entity, a polity that would have thrived from the last century BCE until about the mid-late first millennium CE. No definitive answer can be provided at this stage. Khao Sam Kaeo was apparently an enclosed settlement housing various foreign communities and trading and industrial activities. In contrast, the two sites on the west coast do not provide evidence for boundary walls, for hydraulic systems, or for the concentration of as many activities as in Khao Sam Kaeo. Phu Khao Thong might have hosted South Asian traders, given the extensive numbers of Indian wares found there. However, again, the absence of in-depth investigation prevents our discussing any potential distribution of different activities within various portions of the site area.

What roles were played by Bang Khlak 1 and Bang Khlak 2, the two neighbouring sites that yielded stone-production evidence? What were their relationships with Phu Khao Thong and Bang Kluai Nok? As far as we are aware, Bang Kluai Nok has not yielded any evidence for industrial activities or their distribution networks.

Finally, what was the role of Bang Kluai Nok, compared to its neighbour Phu Khao Thong? If the sites were partially contemporary, were their activities complementary, with Phu Khao Thong serving as a port-entrepôt and specialised industrial site, and Bang Kluai Nok serving as the area's main settlement? These hypotheses still need to be confirmed by more extensive research and surveys at the sites.

# Conclusion

The three sites, Khao Sam Kaeo in the east and Phu Khao Thong and Bang Kluai Nok in the west, were clearly trading nodes on the maritime trade routes linking the South China Sea and the Bay of Bengal with their extensions further east and west **[Map 1]**. A major part of the organisation of the political and economic networks of these sites is unfortunately missing, thus restricting evaluation of their capacity, extensions, evolution, and local peculiarities at this developing stage.

Our understanding of the subsistence modes and agricultural regimes of these coastal trading posts, and in particular the western sites, is still very limited. At both Khao Sam Kaeo and Phu Khao Thong, the results of archaeobotanical research corroborate the technological reconstruction of the industries, demonstrating that the sites participated in the exchange of crops coming from both the East and the West. Evidence also indicates that Khao Sam Kaeo had the capacity to develop an agricultural system able to sustain local as well Figure 8: Examples of ornaments found in Khao Muenni caves of the interior in Thung Raya sub-district, Sawi district, Chumphon province [Photographs by Bérénice Bellina].



as transient populations. It is clear from the volume of rice remains recovered at the site that it was the main cereal consumed at Khao Sam Kaeo. Geomorphological evidence suggests that many areas near the settlement could have been used for dryland cultivation, as could the hill slopes and plateaux within the settlement. The archaeobotanical study conducted by Cristina Castillo at Phu Khao Thong (sampling during surveys conducted in 2007 and 2009) shows that the processing of rice was taking place on-site and that rice was again the most important cereal, although not enough evidence is available yet to help us understand where agriculture was taking place and where the rice originated.

Indian pulses are represented more prominently at Phu Khao Thong than at Khao Sam Kaeo, suggesting that they were probably brought in by the Indian population, as some of these pulses would not have been available in peninsular Thailand on their arrival. On the other hand, no assertion can be made about the subsistence base for Bang Kluai Nok, where no archaeobotanical study has been conducted, and no information is available concerning the agricultural regime as to level of production, crop variety, or destinations of the various products.

We will conclude by saying that achieving an integrated view of the economic, political, and social networks represented at these sites requires not only considering the trans-Asiatic networks and their populations but also the various local ones (i.e. interior, coastal, from the sea), an approach Laura Lee Junker (1999) has applied in her research concerning later sites in the Philippines and that researchers have applied in other areas including peninsular Malaysia and Sumatra (e.g. Miksic 1979; Allen 1988). What potential change did integration within a transregional network bring to these interior populations and their environments? Alternatively, how did those local populations affect the long-distance networks? These populations, based on the evidence for interior groups studied by later ethnographic observers including F.L. Dunn (1975), lived in close association with the forest, knew its products intimately, and exploited their environments for the benefit of the coastal polities, via networks of riverine way-stations (e.g. Bronson 1977). According to this scheme, the leaders at stations in the network could control the traffic, whether of goods or travellers, for their own benefit and that of the local people who supported them.

The Thai-French mission is only beginning to investigate interior regions, which almost certainly constituted vital parts of the hinterlands that supported the complex coastal polities. A few discoveries of artefacts [e.g. Figure 8] at sites in the interior that are similar to those found at coastal sites suggest that it may eventually be possible to identify, for periods as early as the final centuries BCE, the kind of symbiotic relationship that is described in ethnographic accounts. In the context of the multiple social and political strategies that were used by the various populations, and based on ethnographic extrapolations, it seems likely that these artefacts might have been used as gifts to strengthen alliances with other elites, as well as to recompense the lovalty of subordinates (Bronson 1977; Junker 1990: 176-177). This study would allow us to address whether, some groups became highly economically specialised, some collecting forest products or precious ores in the interior, others becoming specialised in the offshore collection of sea products for the maritime trade networks and so on. In this way, a much earlier "globalisation" would have thus contributed significantly to the creation of cultural identities in Southeast Asia.

# Acknowledgements

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# An Early Northwest Indian Decorated Bronze Bowl from Khao Sam Kaeo

IAN C. GLOVER & SHAHNAJ HUSNE JAHAN

# Introduction

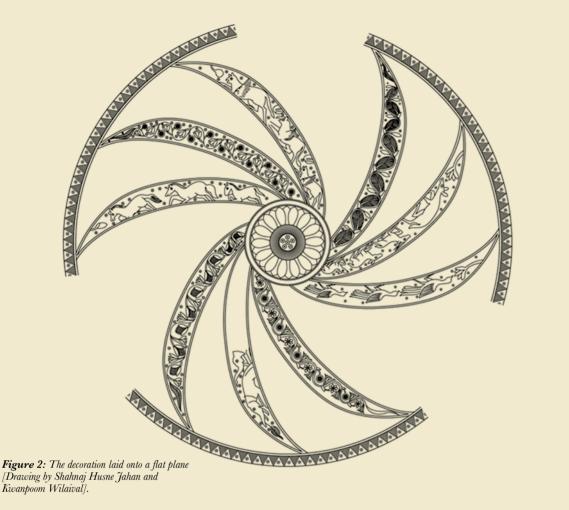
Towards the end of the second millennium BCE, bronze was introduced into Thailand and elsewhere in mainland Southeast Asia by various routes from China (Higham & Rachanie 2012: 145-146). In some areas, especially northern Vietnam, northeast Thailand and the areas east of the Chao Phraya valley, bronze largely replaced stone tools for everyday tasks, and for small ornaments. This regional "Bronze Age" lasted some five hundred years and saw the widening of existing trade networks and the consolidation of settlements into mounded villages surrounded, especially in the Northeast, by moats and earthen banks.

From about 500 BCE, Southeast Asia entered into a major maritime exchange network that linked it with China, India and beyond to Persia and the Mediterranean world (Glover & Bellina 2011; Borell et al., this volume). This had profound cultural changes, involving the adoption of iron technology, first into southern and coastal regions, seeing the introduction of a wide range of new prestige goods, such as glass and semi-precious stone beads, and most importantly, new concepts deriving from the religious and political cultures of India. Among the new products that appeared at three archaeological sites in Thailand, Ban Don Ta Phet, Khao Chamuk<sup>1</sup> and Khao Sam Kaeo were some twelve high-tin bronze bowls with elaborate designs of people, animals in procession and building structures (Bennett & Glover 1992; Glover & Bennett 2012). Of these, one vessel stands out from the others on account of its more refined and naturalistic decoration and its early South Asian iconography and was certainly imported to Thailand at some time in antiquity as most probably were the other decorated vessels. The one we discuss and illustrate in this essay was said to have been found early in 2010 in the Tha Taphao river on the western edge of the archaeological site of Khao Sam Kaeo in Mueang district, Chumphon province, peninsular Thailand, an important archaeological site which has been surveyed, excavated and planned over a number of years by a French-Thai team led by Bérénice Bellina (2002; Bellina et al., this volume).

# The Bronze Bowl

The bowl is 16 cm. in diameter, 8 cm. deep and 1 mm. thick on the body, 3-4 mm. at the rim, and its weight is 410 g. **[Figure 1]**. It is currently held in the Buddhadasa Indapanno Archives in Bangkok.

**Opposite Figure 1:** The bronze bowl said to have been found from Khao Sam Kaeo, Chumphon district, Śunga or Śātavāhana period (?) [Photograph courtesy of Paisarn Piemmettawat].



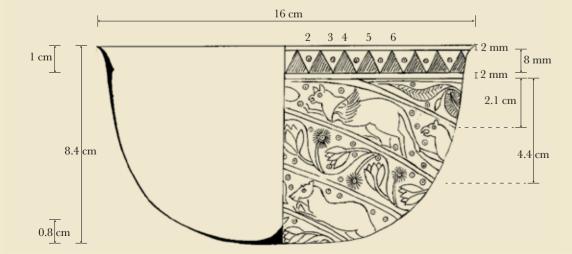


Figure 3: Cross-section of the bowl with figure of one of the three griffins, foliage and a horse [Drawing courtesy of Sanguansri Tretappratima].

In January 2011, the authors were able to examine the bowl, to make rubbings of the decoration which were redrawn onto a single plane with the help of Kwanpoom Wilaival from Silpakorn University, Bangkok.<sup>2</sup> [Figure 2] On the vessel, nine bands of animals and climbing plants spiral out from a stylised lotus at the base towards the rim decorated with hatched triangles and a dot and circle motif [Figure 3]. This vessel differs from the other decorated bronze bowls mentioned above on account of the more flowing and naturalistic decoration and its clearer iconographic links with northwestern India. The bowl is virtually complete yet fragile and it has not been possible to make compositional and structural analyses for comparison with the bowls from Ban Don Ta Phet and Khao Chamuk.

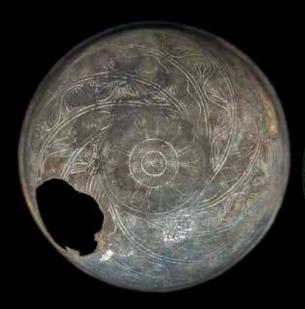
Above the lotus base, the animals represented include elephants, geese, deer, horses and, most unusually a griffin, a mythical winged feline<sup>3</sup> [Figures 4-6]. The other animals are regular elements in the religious iconography of early South and Southeast Asia, often, but not exclusive, to Buddhism and are as Peter Skilling (pers. comm.) commented multivalent symbols with meanings in several Indian religious systems. But the griffin is different; it is unknown to us in pre-Thai and other Southeast Asian art and seems to link the vessel to the region dominated by the Śunga dynasty in the northwestern part of South Asia where Graeco-Bactrian influences are regularly found.

For example, griffins are quite common in India during the Śuṅga period (180 BCE to 68 BCE) for the decoration of shrines at Mathurā (Uttar Pradesh), Bhārhut (Madhya Pradesh), Sāñci (Madhya Pradesh) and ancient Tagara or Ter (Maharashtra) (Marshall & Foucher 1918; Sharma 1994; Rhie Quintanilla 2007) [Figures 7-9]. Griffins are exquisitely portrayed on the ivory royal furniture fittings found at Begrām in Afghanistan, the ancient city of Kāpiśa and summer capital of the Śuṅga and Kuṣāṇa rulers of the second or first century BCE to the early centuries CE (Hackin 1954; St John Simpson 2011: 23-24) [Figure 10] and are occasionally found in the art of Amarāvatī (Andhra Pradesh), but further east and later griffins seem to be replaced by winged lions which also enter the repertoire of early Southeast Asian art.

Griffins are fantastic animals with the body of a winged feline and the head and beak of an eagle. In the myths of the lands north of the Black Sea they were thought by some still to exist and were said to roam in pairs or packs, nesting on the ground, preying on horses and deer and were seen as protectors of the gold deposits of the region hence their symbolic role as guardians of treasure (Mayor 2000: 16).<sup>4</sup> The name, "griffin" is derived from the Greek word gryps, meaning hooked and there are many legends about their fearsome nature in early Greek literature mostly relating to the Scythians and Sarmatians whose tombs contain images of griffins on gold artefacts and tattoos on the bodies of the nobility. Images of griffins, alongside other mythical and real animals, entered the repertoire of Greek art<sup>5</sup> and were spread westwards, reaching Celtic Gaul, and eastwards to Iran and northern India.

Although no exact parallel for this bronze bowl is known to the authors, it shares a number of features found on the well-known brass water vessel (*loțā*) from Gundla **[Figures 11a-b]** in Kulu district, Himachal Pradesh, northern India which was found in 1857 by Major

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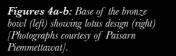








Figure 7: Stone moulds for small beaten decorations from the Lamture Museum, Ter, Maharashtra, India, Sunga or Sātavāhana period (?) [Photograph courtesy of Ariane de Saxcé with permission of the Department of Archaeology and Museums, Government of Maharashtra, India].



Figure 5: Side view of the bronze bowl with horse [Photograph courtesy of Paisarn Piemmettawat].

Figures 6a-b: Side view of the bronze bowl with griffin (left); close-up (right) [Photographs courtesy of Paisarn Piemmettawal].





Figure 8: Lady riding a griffin on stone sculpture from Mathurā, India, Kuṣāṇa period, ca 1st century CE, Varanasi University Museum, inv. no. 21768 [Photograph courtesy of Nicolas Revire].



Figure 9: Griffin depicted on stūpa no. 2 from Sāñci, India (in situ), Sunga or Sālavāhana period (?) [Photograph courtesy of Nicolas Revire].





Figure 10: Griffin on ivory furniture bracket from Begram, Afghanistan, Śuńga period (ca 2nd-1st c. BCE), present whereabouts unknown [After Hackin 1954: II, fig 192].



**Figure 11b:** Decoration on the bronze lotā from Gundla [After Birdwood 1880: pl. 12].



Hay in a ruined Buddhist monastery and is generally attributed to the Śunga period (180 BCE to 68 BCE) (Errington, Crib & Claringbull 1992: 162-164).

# Conclusion

The discovery of this exquisite imported bowl will strengthen the position of Khao Sam Kaeo, a substantial settlement and manufacturing centre as the earliest known port-of-trade from the region and as a major centre of cultural exchanges. Surely, the cosmopolitan population of this favoured place maintained close and lasting links throughout Asia permitting the exchange of ideas and decorative styles that came to bind South and Southeast Asia for more than two millennia (Bellina 2002; Bellina & Praon 2007; Bellina *et al.*, this volume).

# Acknowledgements

We wish to acknowledge the help of Dr Bunchar Pongpanich and the Suthiratana Foundation for the opportunity to examine the bowl in 2011 and for allowing for the photographs to be made, as well as Kwanpoom Wilaival and Sanguansri Tretappratima for their assistance with the drawings.

> Figure 11a: Bronze lotā from Gundla, Kulu Valley, northern India, Śunga period, British Museum, London, inv. no. 1880.22 [Photograph courtesy of the Trustees of the British Museum, Asia].

# Endnotes

- 1 Often spelt "Khao Jamook" in earlier publications.
- 2 The bowl was found by Mr Nai Yao when sand mining in the Tha Taphao river between Khao Song and Khao Sam Kaeo in early March 2010. On the river's edge villagers have found several bronze artefacts, stone, glass and golden beads.
- 3 Here we take a narrow definition of griffin as a mythical animal with the body of a feline with wings set low towards the front of the body, talons and the head of an avian raptor such as an eagle. Some writers on Indian art casually refer to winged lions as griffins.
- 4 Legends in the trans-Oxus region link griffins with the finds of fearsome looking, bird-like Cretaceous

period dinosaur, *Protoceratops* whose bones and eggs are commonly found in the eroding gold-bearing sand dunes (Mayor 2000).

5 Another source for the origin and distribution of griffins in art is given by Karttunen (1989: 177-80) who derives them from pre-dynastic Egypt with perhaps a separate origin in Mesopotamia whence it was introduced into Syrio-Palestinian art. But he accepts that, "In India the griffin is a late import from Achaemenian or Hellenistic West and is found mainly in early Buddhist sites like Bhārhut, Sāñci and Sarnath." The *LIMC* lists and illustrates many examples of griffins in Greek and Roman art (Collective 1997, VIII (1): 609-610 and VIII (2): 378-379).

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# Contacts between the Upper Thai-Malay Peninsula and the Mediterranean World

Brigitte Borell, Bérénice Bellina & Boonyarit Chaisuwan

# Introduction

Tn the last centuries BCE and the early centuries CE, the coastal regions Lof mainland Southeast Asia were linked to a network of maritime routes. Recent studies based on archaeological finds demonstrated the active contacts between South Asia and the upper part of the Thai-Malay Peninsula. However, for the sea routes between the coasts of southern China and India, the Thai-Malay Peninsula acts as a huge barrier. In recent years some sites on the western and eastern coast of the Isthmus of Kra area have been receiving more and more attention from archaeologists - but sadly, also from looters, who find digging for artefacts very profitable. These sites yielded an array of finds imported from several rather distant regions. It appears that different systems of maritime routes were here connected by transpeninsular routes, as had already been concluded from a passage in the annals of the Western Han dynasty (206 BCE-8 CE) describing a sea voyage from the southern Chinese ports in the Gulf of Tonkin to India. Judging from the finds, the networks connecting different maritime routes reached as far as China in the east, and in the west to the western coasts of the Indian Ocean, and from there via the Red Sea ultimately to the Mediterranean Sea (Bellina & Glover 2004).

This essay presents a selection of artefacts originating from the region of the Mediterranean Sea and mainly dating from the Roman Imperial period (here the late first century BCE to third century CE) unearthed or reported to have been found mainly at sites in the upper part of the Thai-Malay Peninsula: Khao Sam Kaeo, Tha Chana, Phu Khao Thong and nearby Bang Kluai Nok [e.g. Figure 1] in the region of the Isthmus of Kra (Bellina et al., this volume), and Khlong Thom further south. These sites provide a chronological sequence from the very early days of the maritime silk roads – i.e. from the fourth to the third centuries BCE for the site of Khao Sam Kaeo, then from the last centuries BCE and the early centuries CE for the other sites. Although a few Mediterranean finds from Khlong Thom, also known as Khuan Luk Pat ("bead mound"), in Krabi province, had already come to light in the 1980s, some newly reported material from there and also from the other sites is introduced. The discussion will focus on the dating of the objects, and when they might have been used in their Southeast Asian context, their possible function – as well as the types of objects which seem to have been most favoured. Objects, whether made in the West or inspired by its production, help to illustrate the chronological development of long-distance sea routes to this peninsular area.

### **Opposite Figure 1:** Roman

cameo fragment with satyr and standing figure from Bang Kluai Nok, Ranong province, early 1st century CE, preserved height 19.5 millimetres, Suthiratana Foundation, inv. no. BKN 280 [Photograph courtesy of Karunphol Phanich].

# The Sites

Khlong Thom, Krabi province, is located about 240 kilometres south of the Isthmus of Kra. The site is now about 20 kilometres inland from the western coast, and connected to the Andaman Sea by the Khlong Thom river. It was in an ideal location for an entrepôt engaged both in sea-borne trade and specialist manufacturing activities.

Khao Sam Kaeo is in Chumphon province, on the eastern coast of the Kra Isthmus region. According to the chronology established by the Thai-French excavations based on radiocarbon dates, the major period of activity at the site can be dated between the fourth and first centuries BCE, nevertheless some activity appears to have also taken place in the early centuries CE (Bellina-Pryce & Praon 2008; Glover & Bellina 2011; Bellina *et al.*, this volume). The excavations brought to light an astounding array of finds, among them Chinese ceramic fragments dating from the Han period (206 BCE to 220 CE) (Peronnet 2013), large amounts of Indian pottery fragments (Bouvet 2006 and 2011) as well as other imports from India, indicating the status of the site in the trade networks of the period.

The site of Tha Chana in Surat Thani province, about 100 kilometres south of Khao Sam Kaeo, is likewise situated on the east coast. This site has been heavily looted and only briefly surveyed by archaeologists, therefore very little is known about it (Amara *et al.* 1987: 350). The evidence of waste material from the manufacture of stone and glass beads suggests that one of the activities at the site was beadmaking; some of the beads can be compared with those from Khao Sam Kaeo and Phu Khao Thong. The finds from the site also include sherds of Han period pottery (Peronnet 2013) and Indian Fine Wares (Bouvet 2012: 307-308). In addition, fragments of at least seven glass vessels of a type known from Han period tombs in the Gulf of Tonkin region (Borell 2011: 62, n. 37) were also found at Tha Chana, which support a dating of the early phase of the site that covers at least the first century BCE and the early centuries CE.

Archaeological investigations have been carried out at Phu Khao Thong, Ranong province on the western coast of the peninsula, only since 2005. Their preliminary results already point to an identification of this site and the group of neighbouring sites including Bang Kluai Nok as an important coastal trading station in a period covering the last two centuries BCE to the early centuries CE. These sites yielded abundant finds of Indian ceramics, among them "rouletted ware," as well as fragments of Han period Chinese ceramics. They are thought to be connected to the western end of transpeninsular routes crossing the Isthmus (Boonyarit 2011; Bellina *et al.*, this volume).

Lastly, the site of U Thong, Suphan Buri province, in central Thailand is a major urban centre of the later Dvāravatī culture. It also yielded archaeological evidence of earlier phases, as well as finds that parallel those from Oc Eo from the first centuries CE. It is an inland site<sup>1</sup> but was well connected to the trading networks, and appears to have been an important place already in the early historic period (Phasook 2004 and 2009).





Left Figure 2: Roman carnelian intaglio with two fighting cocks from Khlong Thom, late 1st-2nd century CE, Wat Khlong Thom museum, Krabi province [Photograph by Boonyarit Chaisuwan].

**Right Figure 3:** Roman carnelian intaglio with Fortuna from Khlong Thom, late 1st-2nd century CE, 15 millimetres. Formerly at Wat Khlong Thom museum, Krabi province [After Bellina 1998: fig. 8b].

### Intaglios and a Cameo Fragment

Motifs on Roman intaglios were usually engraved in reverse because it was supposed to have been viewed as it appeared on the impression or sealing. Here for example, Fortuna **[Figure 3]** would be correctly viewed in an impression holding her rudder with her right hand. The Mars in impression **[Figure 5b]** has his sword and arms correctly on his left side. However, this was not always strictly observed by the Roman gem-cutters, maybe because the intaglios were also appreciated for their decorative value in jewellery. For instance, a motif such as the young satyr with a bunch of grapes in his outstretched hand **[Figures 4a-b]** frequently occurs in both versions on Roman intaglios with the actions of arms and legs reversed. In this essay, the motifs are described as they appear on the stone.

A number of intaglios from the Roman Imperial period have been found at Khlong Thom. Three of these are described below and have already been discussed in earlier publications (Mayuree 1992: 157, fig. 5; Glover 1996a: fig. 5 and 1996b: 65, ill. top row centre which is mirror-inverted; Bellina 1998: fig. 8). The first is an oval intaglio with a convex face showing two fighting cocks [Figure 2], a motif well known from Roman gems.<sup>2</sup> The second intaglio, also a carnelian, illustrates one of the most popular motifs used on Roman seal stones: Fortuna [Figure 3]. She is standing, dressed in a long garment (chiton) with a long cloak (himation) draped around her hips and right shoulder, its ends falling down over the right forearm. Fortuna holds her characteristic attributes: the horn of plenty (cornucopia) and in her other hand she grasps the rudder. In addition to the rudder, she holds a corn-ear and a poppy-head - attributes originally characteristic of Ceres, the goddess of agriculture, for which reason this type is sometimes also called Fortuna-Ceres. Judging from photographs, Martin Henig has already suggested a date in the late first to second century CE for these two intaglios (Glover 1989: n. 5 and 1996b: n. 7).<sup>3</sup> The third intaglio is an oval carnelian with dark inclusions and a flat face, engraved with another motif very common in the Roman Imperial period. It shows a young, nude, walking satyr, a mythological figure belonging to the retinue of Bacchus, the god of wine [Figures 4a-b].<sup>4</sup> The satyr, part man, part animal, can be recognised here by the two pointed goat horns on his head. Young satyrs of this type are usually shown dancing rather than walking. In his raised right hand he holds a bunch of grapes. On his left he has the throwing-stick (lagobolon or pedum) for hunting used by shepherds and satvrs, and a fawn skin (nebris), customarily worn by the

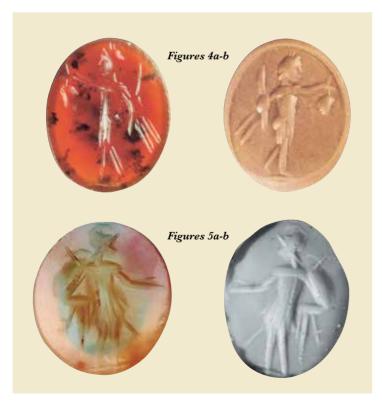
followers of Bacchus, is draped over his left arm. The style suggests a date between the mid-second to early third century CE.

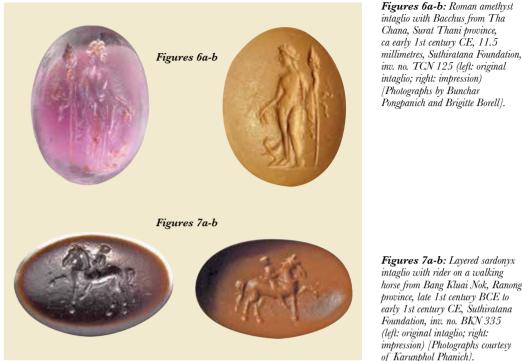
Recently, another Roman intaglio has been found at the site of Khao Sam Kaeo [Figures 5a-b]. Like the intaglios from Khlong Thom it is without a stratigraphic context. It is an oval, pale yellowish carnelian with a flat face. It shows an armed figure, probably Mars the god of war, in short military dress with helmet and spear; he stands to the front with his head in profile. His one arm is bent with his hand on his hip, the sword hangs down behind; the upper arm carries the shield. The short military cloak is draped over the arm, two drapery ends hang down from the forearm. The impression [Figure 5b] shows the shield and sword at his left side which would be customary. The other hand (his right hand in impression) is outstretched in front of him, possibly meant to hold a shallow libation bowl (patera). The style suggests a date in the second or possibly early third century CE.<sup>5</sup>

At the site of Tha Chana, an amethyst intaglio with the image of Bacchus was found [Figures 6a-b]. The oval stone is convex on both sides. The face of the seal shows signs of wear where it was exposed above the ring setting, but otherwise the stone is in good condition. The god stands frontally with his head in profile to the right, he is nude except for a long cloak draped over his shoulder and leg. In one hand, he holds the thyrsos, a long staff with its cone-shaped top wreathed in ivy- and vine-leaves, and in his other hand, the two-handled wine cup (kantharos), his characteristic attributes. He is accompanied by his animal, the panther, emerging behind his feet. The panther walks with one front paw raised, its head turned back and upwards to the god. Amethyst was

#### Figures 4a-b: Roman carnelian intaglio with youthful satyr from Khlong Thom, Krabi province, mid-2nd to early 3rd century CE, 12 millimetres, Suthiratana Foundation, inv. no. KLP 345 (left: original intaglio; right: impression) [After Bunchar 2552: 148].

Figures 5a-b: Roman carnelian intaglio with Mars from Khao Sam Kaeo, Chumphon province, mid-2nd to early 3rd century CE, 13 millimetres, Suthiratana Foundation, inv. no. KSK 108 (left: original intaglio; right: impression) (Photographs by Bérénice Bellina and Brigitte Borell





Figures 7a-b: Layered sardonyx

often chosen for an intaglio engraved with a representation of Bacchus since the stone was believed to protect the wearer against drunkenness (methe). The Greek name for the stone, amethystos, means "not drunken." The classicising style of the figure with its fine and detailed modelling suggests a date in the first century CE, possibly even in the early part of the century.6

In Boonyarit Chaisuwan's excavations at Phu Khao Thong, a very small carnelian intaglio with the figure of a galloping animal was found.7 The schematic rendering and the tiny format does not allow a closer dating. From nearby Bang Kluai Nok comes a horizontally layered sardonyx with a convex face, now set in a modern ring. The stone is engraved with a walking horse and rider [Figures 7a-b]. The fine and sensuous modelling of the horse's head and legs and the wavy movement in the rendering of the horse's tail are very much in the tradition of Roman gem-cutting and would suggest a date in the late first century BCE to the early first century CE.8 Some peculiarities, however, like the spiky mane and, most notably, the absence of a ground line, seem to point to an origin in a workshop farther east and possibly to a later dating.9

The same site also yielded a fragment from the lower edge of a layered sardonyx cameo [Figure 1]. However, only the lower halves of two male figures standing on uneven ground remain. The figure on the left has a tail and is therefore to be identified as a satyr. In a stooping posture, he moves to the left. The figure on the right, possibly another satyr if not the god Bacchus himself, stands in relaxed fashion with his weight on one leg and the other bent at the knee. Judging from the style of the few details preserved, a date in the late first century BCE or the

early first century CE may be proposed.<sup>10</sup> In this period, such Bacchic scenes were particularly popular also on cameo glass.

In contrast to the cameos, which are purely decorative, intaglios in the Graeco-Roman world were used as seals, a function comparable to the role of a signature today. Engraved, the carved stones were usually mounted in finger rings. Besides their use as seals or signet rings, they might also have been prized as items or pieces of jewellery. The highquality intaglio with Bacchus from Tha Chana [Figure 6a] allows the proposing of a relatively narrow dating. The intaglios from Khlong Thom [Figures 2-4a] and Khao Sam Kaeo [Figure 5a] discussed here belong to the later Imperial period, when gem-cutting workshops made mass-produced intaglios for a wide market of customers. These seals were often engraved with standardised representations of gods and goddesses chosen by their owners as their tutelary deities; or with other motifs, valued for their auspicious meaning. For such mass-produced intaglios, it is difficult to give a precise dating based on stylistic analysis alone (Guiraud 1992: 51). Quite often it is only possible to assign them broadly to a certain time span, as suggested here.

The dating of glass intaglios, like the one found at Khlong Thom **[Figures 8a-b]**, presents a different sort of problem. Such glass gems were formed in a mould made from the impression of an original stone intaglio. The moulds were often formed from high-quality pieces, but the glass intaglios were, of course, much cheaper, and therefore affordable by a wider group of buyers. Set as ring stones, they might have been cherished more for their decorative value than for their use as seals, which, in everyday practice, might have been limited, since glass gems are more fragile. Such glass intaglios might have been made soon after the stone original had been engraved, when a particular motif was still *en vogue*, and so might not be much later in date. Stone intaglios, however, might survive for a long time so glass copies could be made from collector items or family heirlooms long after the original stone intaglio had been created.

The glass intaglio from Khlong Thom [Figure 8a], made of almost clear glass, has a slightly convex face and a flat back, and shows a miniature scene of rural life.<sup>11</sup> On the right stands a bearded herdsman leaning on his staff. He is clad in the typical countryman's garb, consisting of a rough skin cloak over a short tunic. In front of him, his dog walks to the left, its head raised, one front leg in the air. On the left is a rock and a tree; the upper part of the tree bends almost horizontally to the right along the oval edge of the glass gem. On top of the rock is an eagle with its prey underfoot. The scene appears to have been combined of several motifs, including herdsmen looking after their animals, usually goats, which became popular in the late first century BCE and early first century CE. This was inspired by the pastoral poetry in Roman literature flourishing in this period, which praised from the perspective of the urban dweller the idyllic country life. The original of the glass intaglio might date from the early first century CE. We must be aware, however, that, strictly speaking, this suggests only a date for the original stone intaglio, not necessarily for the glass gem moulded from it.

It is important to keep in mind these general dating problems of stone and glass intaglios and the tentative nature of the dates proposed here. In addition, not only is the date of the object itself of interest in our context, but also the presumed date of its arrival at the site where it



Figures 8a-b: Roman glass intaglio with pastoral scene from Khlong Thom, Krabi province, probably 1st century CE, 18.5 millimetres, Suthiratana Foundation, inv. no. KLP 189 (left: original intaglio; right: impression) [After Bunchar 2552: 150].

was found. Bennet Bronson (1990: 217), though not excluding a direct contact with the Mediterranean world in the first or second centuries CE, pointed out that other finds from Khlong Thom are indicative of a later period, and argued that the seals with motifs of Mediterranean origin might only have arrived at a much later date. However, Mayuree Veraprasert (1992), based on her later research and excavation, re-assessed the chronology of the Khlong Thom site, and proposed for it a first phase from the first century BCE to the second century CE, and a second phase from the third to fifth centuries CE (Amara 1998: 103-104, 107; Bellina 1998: 97-98). Judging from the increased evidence now available from other Thai peninsular sites, it seems plausible to connect some of the Roman intaglios found at Khlong Thom with the early phase of the site.

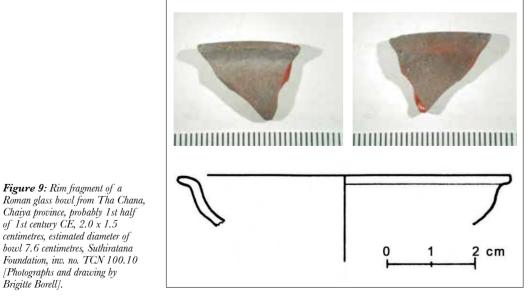
### **Fragments of Glass Vessels**

In contrast to the intaglios, fragments of glass vessels, found in peninsular Thailand, might provide a better indication for the date of their arrival in Southeast Asia. At least two or three small glass fragments, identified as of Mediterranean origin on the basis of their chemical composition, were discovered in the Thai-French excavations at Khao Sam Kaeo. Two of these, made of cobalt blue glass, are possibly fragments of glass vessels (Lankton *et al.* 2008: 328; Lankton & Dussubieux 2013: 431). In addition to these fragments, Khao Sam Kaeo yielded another glass fragment probably of Mediterranean origin, although the results of its chemical analysis are still unpublished.<sup>12</sup> It is of opaque bright red glass<sup>13</sup> and presumably stems from a small moulded glass vessel. However, owing to the tiny size of the fragment, no further inferences regarding its original shape are possible at present.

A more significant fragment of opaque bright red glass was found at Tha Chana. It is the rim fragment of a small moulded bowl [Figure 9]. The glass analysis indicates a soda glass with a composition characteristic of a Mediterranean origin.<sup>14</sup> Although small in size, the fragment preserves a significant part of its shape which allows it to be assigned to a class of moulded bowls of early Roman glass produced in the end of the first century BCE and in the first half of the first century CE. These carinated bowls, also called *patella* bowls, were often made of glass in intense colours such as the opaque bright sealing-wax red glass. They are thought to imitate the famous red *sigillata* pottery where this shape also occurs. The question as to where the shape was first developed, however, is still unresolved. At present, the dates suggest that the sigillata bowls of this shape are somewhat later than the glass vessels (Stern & Schlick-Nolte 1994: 328-329, no. 99; Arveiller-Dulong & Nenna 2000: 140-141, nos. 181, 198, nos. 248-250; Weinberg & Stern 2009: 40-41).

In Phu Khao Thong, a few fragments of mosaic glass vessels recently came to light (Boonyarit & Rarai 2552: 95-105; Boonyarit 2011: 87). One fragment of a mosaic glass vessel [Figure 10] has already been analysed. Its chemical composition is characteristic of Mediterranean glass.<sup>15</sup> The fragment appears to stem from the curved side of a bowl. The pattern is composed of cane sections with spirals of opaque vellow glass in a matrix of translucent green glass. The cane sections were fused together, forming a disc-shaped blank which was then sagged over a convex mould (Stern & Schlick-Nolte 1994: 68-70). Such cane sections with a spiral design in two colours are one of the two basic patterns of Hellenistic mosaic glass vessels, in contrast to the prevalent patterns of Roman composite mosaic glass canes (Grose 1989: 189-190, fig. 102). However, can esections with a spiral pattern still appear occasionally in early Roman mosaic glass vessels, usually among other motifs (Grose 1989: 225, 322, no. 513). The fragment herein is too small to allow for a more precise dating. It might stem from an early Roman mosaic glass bowl of the early first century CE, yet, the attribution to a Hellenistic mosaic glass bowl of the late second or first century BCE cannot be excluded (Goldstein 1979: 181, no. 475; 188-189, nos. 501-502; Arveiller-Dulong & Nenna 2000: 140-141, no. 176; Weinberg & Stern 2009: 36-38, nos. 63, 67-68).

We know from various sources as well as from the archaeological record that such Mediterranean moulded glass bowls played a role in



the maritime trade via the Red Sea to India and beyond (Borell 2010). In particular, ribbed bowls, a special type of moulded bowl, are easily identified, even if only a small fragment is preserved. They were massproduced in the period from the first century BCE to the first century CE, and fragments of ribbed bowls have been found along the maritime trade routes from the Red Sea along the Arabian Peninsula, and in India. In addition to the well-known finds of ribbed bowls from Arikamedu and Dharanikota on the southeastern coast of India, fragments of at least two more such bowls were recently discovered at the Pattanam site on the Malabar coast, identified as part of the important port-town of Muziris known from ancient sources (Cherian et al. 2007: 7 pl. 1D; Cherian 2010: 271-272). It is unlikely that all these glass vessels were traded as antiques; they probably arrived at their distant destinations relatively soon after manufacture. This is supported by the discovery of such a ribbed bowl of mosaic glass deposited in a tomb of the Yangzi Delta in the Chinese province of Jiangsu (Borell 2010: 128, fig. 1). The tomb has been identified as the burial of Liu Jing, a son of the Eastern Han emperor Guangwu (r. 25-57 CE), dated to the year 67 CE. Presumably, this ribbed bowl reached China along the maritime routes and therefore would have passed coastal sites in southern Thailand and then would have even been carried along one of the land routes across the peninsula. Although no finds of such ribbed bowls have vet come to light in southern Thailand, it would not be surprising if they were to do so. It is worth noting here that other objects found in the upper Thai-Malay Peninsula show similarities to those from Oc Eo in southern Vietnam and Han tombs in southern China, in particular polyhedral gold ornaments. This supports the theory that the maritime route was already in use at the time (Pryce et al. 2008: 310).

# Pendants with Coin Designs

In addition to these finds imported from the Mediterranean region, there is another group of objects with a Mediterranean connection, which deserves to be briefly surveyed in this context.<sup>16</sup> These are pendants, made of gold and bronze, which imitate to varying degrees of fidelity, the design of a Roman coin. Such pendants are already known from the site of Oc Eo in southern Vietnam (Malleret 1962: 115-117, nos. 919-921, pl. 40; Borell 2008a), their design imitating the obverse of Roman coins with the portrait heads of Roman emperors in profile. Oc Eo, where Louis Malleret conducted excavations in 1944, is recognised as an early urban centre of the polity referred to as Funan in Chinese sources. A canal connected it to the Gulf of Thailand, and the artefacts recovered at Oc Eo demonstrate its participation in maritime trade, and underline its cosmopolitan character. The city was laid out as a rectangle covering about 3 square kilometres and recent investigations indicate that the construction of its central canal and enclosing moats may have already begun as early as the end of the second century CE (Bourdonneau 2009; Manguin 2009).

The most famous pendant from Oc Eo is a thin gold sheet in repoussé technique. Its prototype could be clearly identified as a gold coin (aureus) of Antoninus Pius (r. 138-161 CE) dating from the year 152 CE. Another pendant from Oc Eo, slightly thicker with a plain reverse and probably cast, was initially thought to derive from a coin of Marcus Aurelius

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Figure 9: Rim fragment of a

of 1st century CE, 2.0 x 1.5

[Photographs and drawing by

Figure 10: Fragment of a Mediterranean mosaic glass bowl from Phu Khao Thong, Ranong province, 1st century BCE to early 1st century CE, 2.2 x 1.4 centimetres, 15th Regional Office of Fine Arts Department, Thalang Phuket /Photograph by Boonyarit Chaisuwan].

(r. 161-180 CE). However, it has been demonstrated elsewhere that the coins of Marcus Aurelius do not accurately match the details of the Oc Eo obverse, and it has been argued that the prototype for this second pendant from Oc Eo was a coin of Commodus (r. 180-192 CE), the last of the Antonine emperors, dating from the year 192 CE (Borell 2008a).

Recently, similar pendants have been found at Khlong Thom. One of them closely imitates the obverse of a coin series of Antoninus Pius dating from 158-159 CE [Figures 11a-b], whereas its worn reverse certainly stems from the coin of a different Roman emperor. On the obverse an essential part of legend has been left out when making the mould for casting, namely the title Augustus for the Roman emperor, usually abbreviated as AVG, and the letter P for PIVS. Instead, above the head of the emperor only a blank space exists, probably to provide space for the suspension loop of which a piece of soldered-on gold wire has been preserved on the back identical to that on the Oc Eo pendant imitating a coin of Commodus. Such a spiral of gold wire serving as a suspension loop is preserved on a similar pendant from Khlong Thom [Figures 12a-b] with a free adaptation of a Roman coin design. Imitations of Roman coins made up as pendants are a phenomenon well known from India. Roman coins arrived in India in enormous numbers during the trade boom with the Roman world in the early centuries CE and have been recovered in their thousands. These pendants from Khlong Thom and Oc Eo, however, are different in appearance to the imitations known from India and were most likely manufactured in Southeast Asia.



Figures 11a-b: Gold pendant from Khlong Thom, Krabi province, obverse imitating a coin of Antoninus Pius (r. 138-161 CE), diameter 19 millimetres, weight 4.16 grams, Suthiratana Foundation, inv. no. KLP 071 (left: obverse; right: reverse) [Photographs by Brigitte Borell]

Figures 12a-b: Gold pendant from Khlong Thom, Krabi province, diameter 19 millimetres, weight 4.86 grams, Suthiratana Foundation (left: obverse; right: reverse) [Photographs by Brigitte Borell]







The disc-shaped repoussé pendant discovered at U Thong in central Thailand was probably also locally produced [Figures 13a-b].<sup>17</sup> Khlong Thom yielded yet two other finds whose design is derived from Roman coins. One is a bronze pendant crudely imitating a coin of Tiberius (r. 14-37 CE) of the so-called Livia-type [Figures 14a-b], so named because the seated figure on the reverse is usually identified as Livia, the wife of Augustus and mother of Tiberius. The other find is one half of a two-part stone mould for the reverse of such a pendant [Figure 15].<sup>18</sup> Tiberius coins of this type, which represent one of the most common Roman coin types, were probably minted throughout Tiberius' entire reign and were found in large numbers in India where they arrived through commercial transactions during the Roman period (Turner 1989; Tomber 2008: 35-36). In India, they were also imitated in metal and in clay to be used as pendants. Such clay pendants of local Indian manufacture are known in particular from Kondapur in Andhra Pradesh (Wheeler 1954: 152-153, pls 28-29). Although we cannot be sure where the bronze pendant from Khlong Thom was made, the mould is definite evidence that local production of such pendants took place there.

However, when attempting to date these pendants, we must bear in mind that only their prototypes are firmly dated here, coins of Tiberius, Antoninus Pius, and Commodus. We have no clues to determine how long after these dates the pendants were actually made.

At present it is difficult to determine to what extent the import of these Mediterranean objects like the intaglios, the glass vessels and the coins, involved direct contact with traders from the Roman empire. In Figures 13a-b: Gold pendant from U Thong, Suphan Buri province, diameter 19-20 millimetres. Û Thong National Museum (left: obverse; right: reverse) [Photographs by Brigitte Borell].

Figures 14a-b: Bronze pendant from Khlong Thom, Krabi province, diameter 18 millimetres, Suthiratana Foundation (left: obverse; right: reverse) [Photographs by Brigitte Borell].

Figure 15: Stone mould from Khlong Thom, ca 4.5 x 3.5 centimetres, Wat Khlong Thom museum, Krabi province [After Wannasarn 2550: 28, fig. 3, top].

general, many of such trade transactions would have been conducted by intermediaries. As mentioned above, Roman glass vessels were traded to India; and a broken intaglio engraved with a portrait of Augustus was found in Arikamedu in Tamil Nadu (Malleret 1959: 103-104, figs 4c-d; Tomber 2008: 133). The type of pendant such as the one which crudely imitates a coin of Tiberius might have been brought by Indian craftsmen possibly even immigrants present at a place like Khlong Thom. In this case, it would be an indirect adaptation of a Roman prototype, without any need for a genuine coin of Tiberius having arrived in southern Thailand. In contrast, the later production of gold pendants imitating coins of the second century CE differs from the Indian finds and appears to be an indigenous development. The imitations are very close to their prototypes, therefore we may assume that the moulds for their manufacture were directly formed from Roman coins. This suggests that at least a few coins actually came to Southeast Asia.

So far, the only Roman coin known to have been found in Thailand is an *antoninianus* of Victorinus (r. 269-271 CE), one of the usurper emperors of the so-called Gallic empire. It comes from U Thong **[Figures 16a-b]**, dates from 269/270 CE and is attributed to the mint in Cologne (Landes 1981; Borell 2008b: 14, n. 51). These debased coins of the Gallic empire with a minimal silver content were in circulation in the western provinces of the Roman empire until the end of the third century CE. They were not used in bulk in long-distance trade with India, although occasional finds of such coins are known from there.

# Written Sources

The contacts between India and Southeast Asia were already well developed in the last centuries BCE. The upper Thai-Malay Peninsula was the crossroads between maritime networks from an eastern and a western direction connecting here with a land crossing. A Chinese source (*Han Shu*, chapter 28B) describes such a land crossing already being in use between sea voyages from Hepu and Xuwen in the Gulf of Tonkin to Huangzhi, probably to the southeastern coast of India during the reign of Han Emperor Wu (r. 141-87 BCE).

Evidence from written sources suggests that maritime networks from the West, that is, from the Mediterranean and the Red Sea across the Indian Ocean connected with the Far Eastern networks and came into use about two centuries later.

The *Periplus Maris Erythraei*, a mid-first century CE account of maritime trade from the Red Sea to India, written in Greek by an anonymous author, still has only very little to say about the regions east of India. This state of knowledge seems to have changed about fifty years later. Claudius Ptolemy, writing in the second century CE, gives a much more detailed description of the areas east of India in his *Geography* (1.13-14), in particular of the Thai-Malay Peninsula, which he calls the Chryse Chersonesos, i.e. the Golden Peninsula. He relied on an account, which is now lost, written by a certain Alexandros, a sea captain or navigator. This first hand account is thought to date from the late first or early second century CE, as it had also been used by another scholar, Marinus, a geographer and cartographer also writing in the second century CE but somewhat earlier than Ptolemy. Marinus'

geographical treatise is likewise lost and known to us mainly through Ptolemy who relies on it although he heavily criticises it. It seems that detailed knowledge of the Thai-Malay Peninsula and the land route across it can be traced to Alexandros' account (Dihle 1984: 90, 147; Berggren & Jones 2000: 75, no. 51; McLaughlin 2010: 57-59, 133-134). According to our knowledge, Alexandros was the first person to document the circumnavigation of the Thai-Malay Peninsula, having returned home safely to be able to bequeath his report. We cannot exclude that before him other traders from the Roman empire had ventured as far east from time to time, but there exists no trace of this in the written records.

However, the presence of individuals from the Roman empire in Southeast Asia is witnessed in Chinese sources for October 166 CE, when the "embassy" of Andun is recorded as the first official contact with the Roman empire (Da Qin). The entry in the annals of the Eastern or Later Han dynasty (*Hou Han Shu*, chapter 88) says:

The king of this country always wanted to enter into diplomatic relations with the Han. But the Parthians (Anxi) wanted to trade with them in Chinese silk and so put obstacles in their way, so that they could never have direct relations (with China) until the reign of Emperor Huan, in the ninth year of Yanxi (166 CE), when Andun, king of Da Qin, sent an envoy from beyond the frontier of Rinan who offered elephant tusk, rhinoceros horn, and tortoise shell. It was only then that for the first time communication was established (between the two countries). The document listing their tribute had nothing at all precious or rare. Thus one suspects that those who have written about it have erred. (Leslie & Gardiner 1996: 51; with minor stylistic changes)

This text has been discussed by many scholars, and there is general agreement that it was probably not an official embassy sent by the Roman emperor, but a group of merchants from the Roman empire somehow assuming this role in the eyes of their counterparts (Crespigny 1990: 42-43; Graf 1996; Leslie & Gardiner 1996: 153-157). The items listed which they offer as "tribute" might have been acquired on their way along the maritime routes, some of it possibly not far from the frontiers of Rinan in present-day Vietnam, and the derogatory comment in the Chinese source makes it clear that something was out of proportion. The emperor's name Andun is certainly a rendering of Antoninus, however, it is not clear whether it refers to Marcus Aurelius Antoninus (r. 161-180 CE), who ruled together with Lucius Verus (r. 161-169), or rather to their predecessor Antoninus Pius (r. 138-161 CE). These enterprising merchants who ventured beyond India might very well have stayed for some years in the East without knowledge of Antoninus Pius' death in March 161 CE. In our context, the interesting point is that the "embassy" arrived by the sea route along the Vietnamese coast from beyond Rinan, the southernmost commandery of the Han empire, extending south probably as far as central Vietnam. They might have travelled on board foreign ships from the eastern coast of India, thus reaching the western coast of the Thai-Malay Peninsula, which they most likely crossed overland in the Kra Isthmus region.



Figures 16a-b: Roman coin (socalled antoninianus) of Victorinus (r. 269-271 CE), 269/270 CE, diameter 20 millimetres, U Thong National Museum, inv. no. 306/ 2509 (top: obverse; below: reverse) [Photographs courtesy of the U Thong National Museum]. Additional information about the presence of traders from the Roman empire is found in the *Liang Shu*, which is ostensibly the history of the Southern Liang dynasty (502-556 CE), compiled by Yao Silian early in the seventh century CE, but it also includes earlier material. It continues with more information about Da Qin:

Their people are traders and often visit Funan and Rinan and Jiaozhi, but people of (these) various countries beyond our southern border rarely reach Da Qin. [...]

In the fifth year of Huangwu of the reign of Sun Quan (226 CE), a merchant of Da Qin named Qin Lun came to Jiaozhi. The prefect of Jiaozhi named Wu Miao sent him to visit (Sun) Quan, who asked him about the land and its customs. (Qin) Lun gave a detailed reply. (Leslie & Gardiner 1996: 100-101, 158-159; with minor stylistic changes)

From this information, we may deduce that, in the later second and early third centuries CE, merchants from the Roman empire came more frequently to Southeast Asia clearly along maritime routes and were not uncommon in the regions along the Vietnamese coast, from Funan in the south to Jiaozhi in the north. After the collapse of the Han empire, one Roman merchant was sent in the year 226 CE to the court of the Wu dynasty (222-280) in the area of present-day Nanjing (Crespigny 1990: 479-480, n. 38; Graf 1996: 201-202; McLaughlin 2010: 136-137). To arrive in southern Vietnam these groups of Roman traders must have either bypassed the Thai-Malay Peninsula or more likely must have crossed it one way or another.

# Conclusion

At present, the surprisingly rich archaeological evidence of objects of Mediterranean origin found at sites in Southeast Asia raises more questions than it answers. Some of the objects may be assigned to early dates such as the first century BCE and the first century CE, but it is doubtful whether they indicate direct trade. It seems more likely, at the present state of research, that they would have reached southern Thailand by intermediary trade along the maritime routes via India.

This seems a plausible explanation for the finds of earlier date, and in particular for the pendant and mould imitating coins of Tiberius. Intaglios could have been brought to southern Thailand by their own owners and been lost from or taken out of their ring settings. They could have been traded by intermediaries to Southeast Asia as luxury goods, or used in trade as gifts of high prestige to the local rulers.

In the later second and in the third century CE, traders from the Roman empire, probably from its eastern provinces, may have arrived more frequently, as indicated not only by the finds of the pendants imitating coins of later emperors but also in written sources. Archaeological evidence for still later direct or indirect contact with the Mediterranean, or at least with Egypt, is the find of the early Byzantine lamp at Phong Tuek, in Kanchanaburi province, which dates from the fifth or sixth century CE (Borell 2008b).

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# Endnotes

- 1 The maximum transgression of the shoreline, which in the past has been connected with the Dvāravatī period during the second half of the first millennium (Phongsi & Thiwa 2524), occurred much earlier, probably between 6,000 and 5,000 BCE, see Tanabe *et al.* (2003: fig. 1 and fig. 8A-B); also Montri (2011); see also Trongjai, this volume. Although shoreline progradation was rapid, owing to the deltaic processes of the Chao Phraya and the Mae Klong rivers, in the case of U Thong there would have been only a minor difference of less than 20 kilometres between the shoreline of the early historic period and the present shoreline (Tanabe *et al.* 2003: fig. 8E and fig. 8F).
- 2 Martin Henig (Glover 1989: n. 5) compared this with an intaglio from Aquileia (Italy), see Sena Chiesa (1966: 392, no. 1341, pl. 68). For additional comparisons with further references, see Zwierlein-Diehl (1991: 107, no. 1949, pl. 54); for a stylistic comparison with a gem from Carnuntum (Austria), see Dembski (2005: 142, no. 914, pl. 94).
- Martin Henig (see note 2) gave as references three intaglios from Aquileia (Sena Chiesa 1966: 240-241, nos. 602-604, pl. 31), and several intaglios from Gadara in Jordan, see Henig & Whiting (1987: nos. 102-105); in addition, see also Maaskant-Kleibrink (1986: 44-45, no. 90), Zwierlein-Diehl (1991: 315, no. 2825, pl. 230), Middleton (1991: 81-82, no. 120 and 2001: 41, no. 22) and Weiß (1996: 84, no. 147, pl. 20).
- 4 The motif has been erroneously identified as Perseus with the head of Medusa by Bennet Bronson (1990: 217), followed by others including very recently by Piriya Krairiksh (2012: 43, fig. 1.10). For comparisons of the satyr motif, see Sena Chiesa (1966: 189, no. 391, pl. 20), Henig (1978: 206-208, nos. 159-177, esp. 161), Maaskant-Kleibrink (1986: 109, app. 18), Henig & Whiting (1987: no. 241) and Middleton (2001: 36, no. 18).

- 5 For the type, see Sena Chiesa (1966: 149-50, nos. 217-220, esp. 217, pl. 11) perhaps holding a *patera*; Zwierlein-Dichl (1979: 169, no. 1281, pl. 116) second century CE carnelian, here Mars holds out a small Victory. For the style, see Guiraud (1988 : no. 542, pl. 37) and Zwierlein-Dichl (1991: 306, no. 2763, pl. 223).
- 6 For the motif, see Maaskant-Kleibrink (1978: 209-210, nos. 482-483, the latter also an amethyst with convex face, pl. 90) and Pannuti (1983: 30, no. 39, although without *himation*) showing a carnelian intaglio, convex face, flat back from Pompei (pre-79 CE).
- 7 Found in 2006; measurements 0.85 x 0.6 cm.
- 8 For the motif of a rider on a walking horse with one front leg raised, see Zwierlein-Dichl (2007: 131, 423, fig. 520), interpreted as the young C. Caesar in military dress and therefore dated to around 8 BCE; Pannuti (1983: 108, no. 161), from Pompei (pre-79 CE date) depicting a youth likewise with his cloak flying out behind; Middleton (1991: 154, app. 11a-b), said to be from Persia and dated to the second half of the first century BCE-beginning of the first century CE, showing a helmeted warrior looking back. However, the style and, in particular, the iconography of the rider differ.
- 9 An anonymous reviewer suggested a Bactrian origin, however, so far no convincing parallel has been found. The intaglio with a horse and a Graeco-Bactrian inscription (Middleton 1998: 102-103, no. 83), interestingly likewise engraved on a layered sardonyx, is very different in style. Thanks are due for this reference to Erika Zwierlein-Diehl who feels that a Bactrian origin may be excluded for the Bang Kluai Nok intaglio (pers. comm.).
- 10 For the unstable stance of the right figure, compare the satyr on a cameo at the Hermitage museum in Saint Petersburg (Neverov 1988: 50, no. 39).

- 11 This scene has been erroneously described as the abduction of Ganymed by Bunchar Pongpanich (2552: 150) and Michael Wright (2552: 48, ills 5-6, centre). For the scene of rural life, see Hamburger (1968: 21, 35 no. 141, pl. 7); for the motif of dog and eagle with its prey under a tree, compare with Sena Chiesa (1966: 385-386, nos. 1291-1293, pl. 65) and Zwierlein-Diehl (1991: 87, no. 1810, pl. 34); for the shepherd, see Maaskant-Kleibrink (1978: 250, nos. 658-659, pl. 115), Henig (1994: 112-113, no. 208), Middleton (2001: 61, no. 36), Weiß (2007: 226-227, nos. 333-338, pl. 45), and Guiraud (2008: 148, no.1313, pl. 25).
- 12 This was brought to our attention by Yatima Thongkam (pers. comm.), who also showed us a photograph of the fragment.
- 13 This opaque bright red glass (also called sealing-wax red) is a special glass colour not easily achieved in antiquity (Welham *et al.* 2000). It should not be confused with the opaque red glass of a different red hue usually encountered in glass beads found in Southeast Asia. For analyses of red opaque beads from four different sites in peninsular Thailand (Khlong Thom, Phu Khao Thong, Nang Yon, and Thung Tuek), see Wantana *et al.* (2011). On glass in Southeast Asia in general, see Dussubicux & Gratuze (2010).

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14 The chemical analysis was carried out by James

15 The chemical analysis was carried out by Pisutti

Dararutana, Department of Earth Sciences,

96); also Boonyarit (2011: 87).

Faculty of Science, Kasetsart University, Bangkok,

and Yatima Thongkam. It has also been analysed

U Thong National Museum, this find was brought

into the museum from the community in 2006. In

February 2007, Brigitte Borell had the opportunity

collared disc beads. See also Wannasarn (2550: 28,

by James Lankton, see Boonyarit & Rarai (2552:

16 For a full discussion of these pendants, see Borell

17 According to information provided by the

to see it and take the photographs.

18 The back of the mould is prepared for casting

Lankton in 2009.

(2012).

fig. 3, top).

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# Phromthin Tai: An Archaeological Perspective on Its Societal Transition

THANIK LERTCHARNRIT

# Introduction

K nowledge about prehistory in Thailand or mainland and maritime Southeast Asia is generally well-established (Bellwood 1997; Higham 1989 and 2002; Higham & Rachanie 2012), as is the modern history of the region (e.g. Wyatt 1984; Tarling 1992). However, it is unfortunate that the transition from prehistory to history in Thailand and Southeast Asia is still relatively poorly understood, especially from archaeological perspectives, due to a lack of research and focus on the question.

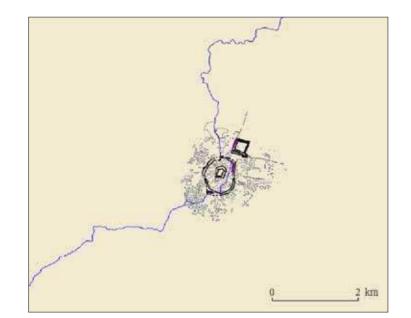
In recent years, however, there has been a growing body of literature on the archaeology of late prehistory and early history in the area (e.g. Glover & Bellwood 2004; Stark 1998). In central Thailand in particular, the last decade saw a relatively fair amount of research and excavations of archaeological sites dating between 500 BCE and 500 CE or somewhat later (e.g. Sawang 2002, 2004 and Thanik 2005; Suraphol 2545; Saritpong *et al.* 2011).

This essay presents additional archaeological data on the transition from late prehistory to early history resulting from the recently excavated site of Phromthin Tai in central Thailand. This stratified multi-component site located in Khok Samrong district of Lop Buri province is the main focus of this preliminary study.

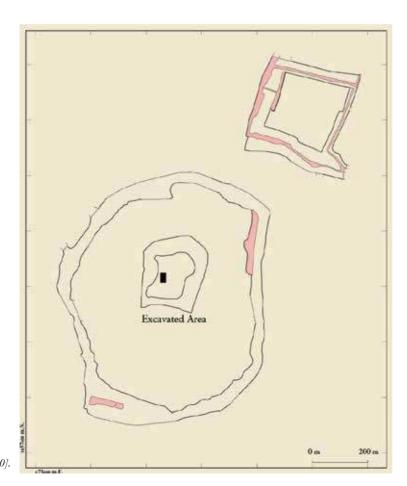
# Archaeological Investigations at Phromthin Tai

Phromthin Tai (named after the modern village where the site is located) is about 20 kilometres northeast of the modern town of Lop Buri in central Thailand and 12 kilometres northwest of Khao Wong Prachan, a hill where prehistoric copper smelting took place in the second millennium BCE and continued into the first millennium BCE (Pigott *et al.* 1997). Its geographic position lies at the latitude of 14° 59' 26" N and longitude of 100° 37' 17" E, and it sits on an eroded limestone terrace covered with moderately acidic dark clay soil (labeled as "Ban Mi district soil series") near a foothill at an elevation of between 10-20 metres above the mean sea level, with the average annual rainfall at 877-1,317 mm.

**Opposite Figure 1:** A stone image of "Buddha-on-a-monster" found at Phromthin Tai [Photograph by Thanik Lertcharnrit].



Map 1a: Aerial view of Phromthin Tai moated settlement [After Department of Treasury 2550].



Map 1b: Close-up of Phromthin Tai and excavation area [After Department of Treasury 2550] THANIK LERTCHARNRIT

According to Phongsi Wanasin and Thiwa Suphachanya (2524: Appendix 11.2), the site is a relatively small semicircular-shaped ancient moated town measuring about 1 kilometre wide and long [Map 1a]. The site is poorly known among scholars although Wat Phromthin Tai houses a fine stone image of a "Buddha on-a-monster" flanked by two deities (Phuthon 2555: 11) [Figure 1], a type of religious icon found mainly in the early Buddhist centres of central Thailand and sometimes referred to in literature as "Phanasbodi" (e.g. Brown 2011). Two Pāli stone inscriptions have also been found by chance in the neighbourhood in the late 1970s, early 1980s and are now kept at the Phra Narai National Museum in Lop Buri (Phuthon 2555: 22, 24, 29-30; Revire, this volume, fig. 10) [Figure 2]. Today, the moat no longer exists probably because it was destroyed by modern villagers to clear the area for rice agriculture. In this process a number of silver coins ascribed to the early historic period were unearthed (Phuthon 2524), suggesting that the site was occupied by a Dvāravatī cultural group during the sixth to seventh centuries CE. In spite of this, the site received little attention and study until 1991 when archaeologists from the Fine Arts Department (FAD) carried out an excavation and restored a brick structure (probably an ordination hall) dating to the Ayutthaya period (fourteenth-seventeenth centuries CE). In a test unit near this structure, two human skeletons were excavated at the depth of about 2 metres below the present surface. Associated grave goods included pottery, iron implements, bronze earrings, bronze rings, bronze bracelets, and beads (Nongkhran 2534). More surface finds including glass and stone beads, iron slag, polished stone tools, iron implements, earthenware sherds, clay anvils, and fragments of stone and ivory bracelets were found during a field walking survey conducted by the author and his students in January 2004. These findings confirmed the antiquity of the site and led to systematic research by the author.

In March 2004, the Department of Archaeology, Silpakorn University, decided to run a two-week archaeological field school at the site **[Map 1b]**. Four 3 x 3 m. test units (identified as PTT-S1, PTT-S2, PTT-S3, and PTT-S4) were opened in a line about 5 metres west of the aforementioned brick structure. These excavations were not finished because of time constraints and the high volume of debris and artefacts. Several additional field seasons have been conducted every year between 2005 and 2011 to complete the three earlier excavation units (PTT-S2, PTT-S3, and PTT-S4). Two units (PTT-S3 and PTT-S4) were expanded

Figure 2: A stone Pāli inscription (ye dhammā formula) from Phromthin Tai, now kept at Phra Narai National Museum, Lop Buri [Photograph courtesy of Nicolas Revire].

into 6 x 6 m. units. It should be noted that the excavation of PTT-S4 was still in progress in 2013 during the writing of this essay. The previous excavations in the area, however, have unearthed a number of human burials and a large amount of archaeological remains. Parts of the earlier excavation conducted in 2004 has already been published (Thanik 2006).



# **Preliminary Results and Discussion**

The majority of archaeological data presented in this essay is drawn from a series of excavations mentioned earlier. It should be noted that the interpretations here are still largely tentative, rather than conclusive, and further detailed analysis of archaeological evidence might perhaps modify these assertions in the future.

### **Cultural Chronology and Occupational Sequence**

Previous and recent excavations reveal a multiple occupation sequence at Phromthin Tai. Four cultural layers were identified primarily on the basis of stratigraphy and archaeological evidence. Stratigraphic and archaeological data demonstrate that the site was probably first occupied during the late Bronze Age (ca 700-500 BCE). Supporting data for this interpretation is derived from the basal layer of the PTT-S2 unit where a human skeleton buried in an extended supine position with associated grave goods including a bivalve shell, bronze bracelets, and pottery was recovered [Figure 3]. One charcoal sample from this layer was radiocarbon dated at the Office of Atomic Energy for Peace in Bangkok, and the uncalibrated date was  $2,430 \pm 260$  BP. It should be noted that data on this cultural layer is very limited as contexts other than the burial were not found and the interpretation of the cultural sequence is based solely on this result.

The successive occupation at Phromthin Tai is interpreted on the basis of cultural materials and radiometric determinations. Stratigraphic data showed continuity of occupation from the late Bronze Age deposits to the next occupational layer, which is determined as the Iron Age. The Iron Age occupation (500 BCE-500 CE) is characterised by the presence of extended supine human burials and a wide variety of associated grave goods including ceramics, iron tools, glass and stone beads, bronze anklets, bronze toe rings, stone earrings, a bronze bowl, as well as artefacts found in domestic context: e.g., stone and clay bracelets, spindle whorls, polished stone adzes, glass, carnelian and agate beads (Thanik 2010 and 2011). This line of evidence is comparable to that found in other Iron Age sites in central Thailand, such as Tha Khae (Suraphol 2527), Chansen (Bronson & Dale 1972), Noen Makok

Figure 3: A late Bronze Age burial from Phromthin Tai [Photograph by Thanik Lertcharnrit].



(Sunisa 2532), Ban Don Ta Phet (Glover 1990), Sap Champa (Sawang *et al.* 2544), and Ban Pong Manao (Suraphol 2545). Radiometric analysis of charcoal samples derived from the Iron Age occupational layer of PTT-S2 has produced dates as shown in **Table 1**. An additional absolute date of 2,652  $\pm$  79 BP (uncalibrated) was obtained from an Electron Spin Resonance (ESR) dating of a dog's tooth found in a human burial.

### Table 1: Calibrated Radiocarbon and ESR Dates Associated with Phromthin Tai

ID	Date	Calibrated Date*	Material	Context	Excavation Unit
OAPE2169	$2{,}430 \pm 260$	1,211 BCE-73 CE	Charcoal	Bronze Age occupation layer	PTT-S2
OAPE2168	$1{,}810\pm220$	357 BCE-645 CE	Charcoal	Iron Age occupation layer	PTT-S2
OAPE2167	$2,170 \pm 260$	828 BCE-388 CE	Charcoal	Iron Age occupation layer	PTT-S2
OAPE2166	$3,110 \pm 230$	1,912-819 BCE	Charcoal	Iron Age occupation layer	PTT-S2
OAPE2165	$2{,}220\pm260$	903 BCE-355 CE	Charcoal	Iron Age occupation layer	PTT-S2
OAPE2163	$2{,}860 \pm 220$	1,611-512 BCE	Charcoal	Iron Age occupation layer	PTT-S2
**Unassigned	$2,652 \pm 79$	1,007-543 BCE	A dog's tooth enamel	Associated with Iron Age burial	PTT-S2

\* Calibrated by Scott Kirkland (North Carolina State University, USA) using OxCal 4.1

\*\* Dated using ESR method performed at the Research Institute of Materials and Resources, Faculty of Engineering and Resource Sciences, Akita University, Japan in 2004.

The most intensive and longest occupational phase at Phromthin Tai corresponds to the so-called "Dvāravatī period" (sixth-ninth centuries CE). It was determined by the appearance of presumably classic Dvāravatī artefacts including silver coins **[Figures 4a-b]**, small clay seals (with a diameter of 1.5 centimetres) depicting a crouching bull **[Figure 5]**, spouted pots (only spouts were recovered, not the whole vessels), carinated pots **[Figure 6]**, potsherds with stamped designs, clay coins (perhaps used as game-pieces), glass beads of various colors, lead earrings, and spindle whorls (Phasook 2528). The date of the Dvāravatī cultural occupation is firmly established when it is considered in concert with material remains (e.g., silver coins, and stone Pāli inscriptions) first reported by Phuthon Phumathon (2524 and 2555). It has been proposed on the basis of artefacts cross-dating and comparison

Figures 4a-b: A silver coin found at Phromthin Tai (top: obverse; below: reverse) [Photograph courtesy of Borisut Boriphon].

of inscriptions that the Dvāravatī occupation lasted at Phromthin Tai from approximately the sixth to the ninth centuries CE. The character of the material culture indicated that the site was contemporary with other Dvāravatī sites in central Thailand (e.g., U Thong in Suphan Buri province, ancient Nakhon Pathom in Nakhon Pathom province, Khu Bua in Ratchaburi province, Sap Champa in Lop Buri province, Chansen in Nakhon Sawan province, and Dong Lakhon in Nakhon Nayok province) and early historic sites in mainland Southeast Asia (e.g. Bronson & Dale 1972; Phuthon 2529; Charuek 2534; Phasook 2542; Saritpong et al. 2011). It is stratigraphically obvious that there is no occupational break during the main occupation from the late prehistoric (late Bronze Age and Iron Age) to the early historic periods (Dvāravatī). After the "Dvāravatī period," the site was left unoccupied for centuries and was reoccupied in the Ayutthaya period as evidenced by the presence of a variety of artefacts (i.e. stoneware ceramics, Chinese Blue & White porcelains, Ayutthavastyle boundary stones) and the presence of an Ayutthaya-style brick monument.



Left Figure 5: A clay seal depicting a crouching bull from Phromthin Tai [Photograph by Thanik Lertcharnrit].

**Right Figure 6:** A Dvāravatī period carinated cooking pot from Phromthin Tai [Photograph by Thanik Lertcharnrit].



# **Mortuary Practice**

There are at least 20 human burials that have so far been uncovered at Phromthin Tai, and we can comment thus on differences in mortuary patterning. Detailed analysis of mortuary tradition is on-going. At present, the human burials can be chronologically divided into two periods based on their stratigraphic layer and mortuary practice: a Bronze Age and several Iron Age burials.

There is only one Bronze Age burial that has been found thus far, the rest belong to the Iron Age. The one late Bronze Age burial was found in the basal layer and can be distinguished from the other Iron Age burials in terms of the orientation of the heads, associated grave goods, and ritual behaviour. It should be noted that one of the Iron Age burials was very poorly preserved and only arm bones were still present. The other burial, although better preserved, was also incomplete with only the lower body parts left intact; the upper parts had been disturbed by later occupants of the site. Turning to the burials themselves, both the late Bronze Age burial and the Iron Age burials were interred in extended supine position, and had their heads oriented to the northwest. In terms of grave goods, the late Bronze Age burial was interred with a series of bronze bracelets on arms, a cup, potsherds, and bivalve shells **[Figure 3]**. In contrast, the Iron Age burials were richer in grave goods. For example, a male burial was elaborately associated

Figure 7: An Iron Age burial featuring an individual with a variety of grave goods from Phromthin Tai [Photograph by Thanik Lettcharnril].



with a wide variety of grave goods such as hightin bronze items (bracelets, anklets, toe rings, finger rings, and a bowl), mortuary vessels, and strings of glass beads on each leg, a spindle whorl, and an iron knife **[Figure 7]**. It was also observed that the head orientation of individuals was not uniformly practised; some individuals were buried oriented to the east, while some other's heads were directed to the west, northwest, and south.

Finally, a number of mortuary vessels associated with the Iron Age burials were mutilated. For instance, the pedestals of high pedestal bowls were removed and only the bowls themselves were interred in the grave. This ritual behaviour, the killing or mutilation of grave offerings, seems to by typical of Iron Age mortuary practice in central Thailand (Glover 1990; Suraphol 2545).

### **Settlement Pattern and Subsistence**

Stratigraphic and archaeological data clearly show that the settlement of Phromthin Tai was permanent and continued uninterrupted for at least three successive periods and over several generations. Phromthin Tai is located in the lowland area where soil is appropriate for rain-fed wet-rice agriculture and was easily accessible by land or river. Furthermore, it is located near rich natural resources, especially the natural copper ore available on the hill of Khao Wong Prachan. Excavations have yielded a layer of slag and copper ingots, averaging 20 cm. thick, in the Iron Age occupation level. Copper smelting was probably the key economic activity during the early settlement. Two clay moulds used for moulding copper ingots were found as grave goods in a human burial. It is believed that key sources of iron ore are located in the vicinity of the site as large iron ore deposits were found at Khao Thap Kwai, a hill located only 6 kilometres southeast of the site.

The settlement history of Phromthin Tai could probably be summarised in the following way. In the early through the late prehistoric period (ca 500 BCE-500 CE) people settled in the area as a small group with a self-reliant economy (community-based copper smelting) while maintaining an exchange or trade relationship with neighbouring communities. It is apparent that people used the same area for different purposes including domestic, ritual, and specialised activities (metal smelting). No clear-cut segregation of land use was found. Intensive land use seems to have expanded during the Dvāravatī period. For instance, wet rice cultivation was commonly practiced as a relatively large number of bricks and brick fragments yielding imprints of rice chaff have been excavated at the site.

# **Trade and Exchange**

There is strong archaeological evidence for trade and exchange at Phromthin Tai. For example, though there are relatively few copper ingots, the abundance of metal slag indicates that the people inhabiting this site were engaged in intra- and inter-regional exchanges. Copper and iron smelting during the early occupation was carried out for exchange purposes, not for household use. Copper ingots made from the site might have been distributed widely across the region as some of the copper ingots similar in form and size to those made from Phromtin Tai have been found in highland sites about 70 kilometres east of

Phromthin Tai, including Ban Pong Manao and Pong Ta Khop (Suraphol, pers. comm.). Beads of various size, shape and color, particularly glass beads, were among the most common imported items found at this site. Agate, carnelian **[Figure 8]**, and gold-foiled beads were also present, but in lower number. Preliminary technological and compositional studies of some Iron Age stone beads found in burial context show that the beads might have been made in India (Thanik & Carter 2010). A preliminary result of composition study of Dvāravatī glass beads using a chemical compositional analysis method known as Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MSA) Figure 8: A carnelian bead found at Phromthin Tai during the 2013 field investigation [Photograph by Thanik Lertcharnrit].



method suggests that the beads were made from multiple production centres. An electron microscopic study of artefact's surface topography and composition using a method called Scanning Electron Microscope (SEM) of glass bead samples also shows that some beads were white painted. Other imported commodities during the late prehistoric period were high-tin bronze anklets, toe rings and finger rings, fine-grained pottery vessels (e.g., orange and buff wares), and stone bracelets. Some pottery types (e.g., spouted pots, and pots with flower-stamped designs) were probably non-locally produced items as they are rare and were made using fine-grained clay. They are similar to those found at other early historic sites (e.g., Khu Bua in Ratchaburi province, Sap Champa in Lop Buri province, ancient Nakhon Pathom in Nakhon Pathom province) that are thought to have been made from some key production centres (Saritpong *et al.* 2011; Sawang 2004), even though household pottery production took place on the site.

# **Diet and Health**

A substantial amount of faunal remains were encountered during test excavations. These materials are currently under analysis. Preliminary interpretations of diet and consumption patterns are made here on the basis of general observations of the artefact assemblages and faunal remains.

It appears that the staple diet of the early occupants during the Iron Age was probably derived from hunting, gathering and fishing. Their major sources of protein came from both land and aquatic animals. Big and small game hunting were practised. Identifiable species include wild boars, a wide variety of deer and wild bovid species, tigers, elephants, birds, rats, dogs, and snakes. Hunting method can only be inferred from the presence of clay pellets believed to have been used with wooden bows. Fresh water shell and fish bones were present in relatively high frequencies. These water species could have been collected from nearby

Figure 9: Rice grains from Dong Lakhon, Nakhon Nayok province [Photograph courtesy of Thongchai Sako].





Figure 10: Cribra orbitalia found on an individual at Phromthin Tai [Photograph courtesy of Scott Burnett].

ponds, rice fields, and rivers. Rice consumption remains highly possible, but no direct or indirect evidence has been recovered thus far. It is apparent that the early historic period or the Dvāravatī period saw an increase in subsistence based on marine resources and rice cultivation; people might have relied heavily on rice domestication. Remains of fish, shellfish and marine animals (e.g., turtles and crocodiles), rice grains [Figure 9] and rice imprints in bricks and brick fragments have been found at the site and at other sites (e.g., Dong Lakhon in Nakhon Nayok province). It should also be noted that a sheer number of bones of domesticated cattle have been excavated at the site as well, suggesting that animal domestication also played a crucial role as a major kind of diets consumed by ancient people during the early historic period. However, no remarkable change in consumption pattern from late prehistoric to early historic times was observed, except for the marine resource and rice consumption.

A dental paleopathological study of human teeth from the site found that the Iron Age people at Phromthin Tai suffered less dental problems, having a low rate of dental carries compared to other prehistoric people in northeast and east-central Thailand (Kirkland 2010). An additional bioarchaeological study of the Iron Age human remains further found that there is a high proportion of very young adult deaths for males, and some individuals were scored by *cribra orbitalia* **[Figure 10]** or *porotic hyperostosis* suggesting poor nutrition or some form of anemia (Case & Burnett 2013).

# Phromthin Tai in a Wider Perspective

The presence of human occupation at Phromthin Tai beginning at approximately 500 BCE, if not earlier, and continuing until around 500-700 CE, the period that saw intensive contact with Indic culture and the beginnings of the historic period, is not uncommon in Thailand. Archaeological research at various sites in central Thailand and other regions has yielded evidence for occupation starting from Iron Age (ca 500 BCE) or the late prehistoric period (ca 300-500 CE) to early historic times (ca 500-700 CE).

For instance, recent excavations at the ancient moated town of Mueang Sema on the Khorat Plateau (Khemika 2543) unearthed evidence of human occupation, beginning in late prehistoric period (ca fourth-fifth century CE) which continued uninterrupted until the Dvāravatī period of around the sixth-ninth century CE. Similarly, recent archaeological investigation at areas near and inside the ancient town of Si Thep in the upper reach of the Pasak river valley has yielded a large number of late prehistoric period and protohistoric sites dating between 2,000-1,500 years ago, before those small communities were later aggregated into the large town of Si Thep in approximately the seventh century CE (FAD 2554). In addition, at the moated and walled town of Sap Champa in the eastern highlands of the central plains of Thailand, archaeologists have found prehistoric burials and artefacts diagnostic of late prehistoric period or the Iron Age in the basal layers of the site, suggesting the continuity of cultural development at the site from a small village into a large Buddhist centre (Sawang 2004; Suraphol, pers. comm.).

Considered in a wider perspective, Phromthin Tai was situated not only in a good location for procurement of locally available natural resources (mainly but not limited to copper), but also in a location that could have served nearby agricultural communities as a religious centre during the sixth-ninth centuries CE. To the north, Phromthin Tai could have had frequent contacts with communities located in the undulating area such as Chansen, Ban Mai Chaimongkon, Phai Sali in Nakhon Sawan province, and Phu Noi in Lop Buri province (Bronson & Dale 1972; Chureekamol 2003; Suraphol 1997). To the east there are several ancient settlements on the upland areas dating to the Bronze and Iron Ages (Noen Makok, Nong Daeng, Ban Pong Manao, and Sap Takhien in Lop Buri province), as well as to the Dvāravatī period (Sap Champa). To the west there were ancient communities located both in the immediate Lop Buri region, such as Tha Khae, Wang Pai, and the ancient city of Lop Buri, and further west, in the Chao Phraya river valley, there are sites like U Taphao in Chai Nat province, Ban Don Ta Phet in Kanchanaburi province, U Thong in Suphan Buri province, and Khu Mueang in Sing Buri province. Very likely, people from these settlements would have been in contact with inhabitants of Phromthin Tai during the late prehistoric to early historic period. It is likewise unlikely that Phromthin Tai was isolated from communities located further to the south such as Dong Lakhon in Nakhon Nayok province and Dong Si Mahosot in Prachin Buri province.

# Conclusion

The above archaeological evidence shows that Phromthin Tai in Lop Buri province is an important site for understanding the transition from late prehistory to the early historic period in Thailand as well as elsewhere in Southeast Asia. The range of evidence recovered from the recent investigation and excavation campaigns contributes to several important archaeological research questions. For example, it indicates that the site is potentially important in regard to the investigation of prehistoric mortuary variability. The continued sequences of occupation suggest that early people during the Iron Age might have increasingly adopted some new traditions, evidently Indic beliefs, while also retained their indigenous cultures like pottery traditions, subsistence strategies, and metal technology. The transition from late prehistory to early history at the site was seemingly gradual and slow, with increase in site size and settlement pattern during the Dvāravatī period. It is strongly evident that aspects of Indic culture (writing and cremation practice), and other religious belief (probably "animism"), were common during the early historic period. The site also provides several lines of evidence for inter- and intra-regional exchanges during the later prehistoric and early historic periods in Thailand.

As noted earlier, however, the interpretations presented here are made on preliminary results only. Additional scientific analysis of different classes of artefacts and evidence including bronze objects, beads, ceramic vessels, potsherds, and faunal and human remains will no doubt provide a large amount of information regarding the transition from late prehistory to early history, not only at this location, but in Thailand and Southeast Asia as a whole. More secure conclusions must therefore await the results of continuing investigations.

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PART II The Growing Emergence of Indic Material Culture



# Multi-religious Maritime Linkages across the Bay of Bengal during the First Millennium CE

# HIMANSHU PRABHA RAY

In the past kings used to go out on pleasure tours during which there was hunting and other entertainment. But ten years after Beloved-of-the-God's (*rājā þiyadassi*) coronation he went on a tour to *sambodhi* and thus instituted [Dharma] *dhamma* tours. During these tours, the following things took place: visits and gifts to [Brahmins] *brāhmaņas* and ascetics [*śramaņas*], visits and gifts of gold to the aged, visits to people in the countryside, instructing them in *dhamma*, and discussing *dhamma* with them as is suitable. (Major Rock Edict VIII, Girnar version, Sircar 1975: 46) **Previous pages:** Wall carving showing the Buddha preaching to Siva and Visnu in the Bodhisattva cave, Saraburi province [Photograph courtesy of Paisarn Piemmettawat].

# Introduction

The dhamma or religious policy of the Mauryan King Aśoka, who ruled approximately from 272 to 232 BCE, was aimed at giving gifts to both Brahmins (brāhmanas), Buddhists and other ascetics (śramanas) in the third century BCE. The king did not stop feeding the Brahmins, nor did he denigrate them. Yet in secondary writings, there are references to hostility between the different groups. Romila Thapar (2000: 967), for example, makes a distinction between Brahmanism and Sramanism and refers to them as organisationally separate. The latter term, according to her, included a variety of Buddhist, Jaina, Ajivika and other "sects," which denied the fundamentals of Brahmanism such as Vedic śruti and smrti (oral and written tradition). Brahmins are seen as legitimisers of political authority and Brahmanism is credited with the adoption of a common language, viz. Sanskrit. Can one postulate a connection between religion and language? What Thapar does not explain is the relationship between Buddhism and Sanskrit and the fact that Sanskrit was also used by Buddhists by the beginning of the Common Era. Was Sanskrit used only for ritual communication by Brahmins? What was the language(s) used by trading groups and can identification of these languages provide indicators to the religious affiliation of trading networks?

Historians writing within the socio-economic framework of Indian history define the post-fourth century CE period as marking a transitional phase between the sacrificial Vedic religion and the emergence of Purāṇic worship marked by devotion to a deity. This transformation, it is suggested, was brought about by the migration of Brahmins from the towns and the development of *tārthas* or sacred pilgrimage spots (Nandi 1986: 27-46). Brahmins are credited with being agents of acculturation among the tribal populations from the fifth century CE onwards. It is suggested that at numerous feudal centres temples were constructed in

# **Opposite Figure 1**:

Ekamukhalinga found at Nong Wai, Surat Thani province, 5th-6th century. Currently in the Bangkok National Museum, stone, 104 cm. high, inv. no. SV 31 [Photograph courtesy of Paisarn Pienmettawat]. permanent material such as stone for the first time in the fifth century CE "inspired by the growing importance of Bhakti and by the newly established Smarta-Pauranic religion, which was associated with the new social set-up" (Desai 1989-90: 31). Regional states emerged in India from the seventh to the tenth centuries marked by complex changes in religious dimensions of the society and it is "believed that Bhakti and the worship through Bhakti of God as a Lord located in a temple, was the key ideological strand of the period" (Chattopadhyaya 1994: 29).

This framework is by no means limited to writings on early South Asia, but has been repeated in works on early Southeast Asia as well. Pierre-Yves Manguin for example refers to the two phases of "Indianisation" and while the term has now been discarded for the period from 500 BCE to 500 CE, it still provides us with "a convenient term for the second phase of cultural exchange between South and Southeast Asia [...] to denote profound socio-political modifications brought about by the adoption, at least by the ruling elites of state concepts, broad based universalist religions and their props (temples and statues) and writing in Sanskrit (the language of power)" (Manguin et al. 2011: xx). In an earlier paper, Manguin (2004: 295) refers to coastal polities on the Malay Peninsula as early as the third century CE which were hosts to "hundreds of Brahmins and to large merchant communities from India and the Iranian world. Buddhist communities were also active." What was the role of Brahmins in these polities and their relationship with Buddhist communities?

Thus there is a need to interrogate the paradigm of movements of Brahmins to courts of regional kings largely for the purpose of providing legitimacy; and the proposed shift from Buddhism to "Purāṇic Hinduism" around the middle of the first millennium CE. The emphasis in this essay is clearly not on sequential development and antagonism between adherents of different religions, but on plurality, diversity and co-existence of diverse religious traditions at the beginning of the Common Era both in South and Southeast Asia. The larger issue that the essay addresses is the multi-cultural and multi-religious context of early maritime activity across the Bay of Bengal starting from the beginning of the Common Era. This included the sharing of languages such as Sanskrit, Prakrit, Pāli, but also Tamil, which were written in Brāhmī and Kharoṣṭhī scripts. Yet before I move to the central theme, a brief historiography indicating the different perspectives adopted by scholars on the issue may be appropriate.

# Historiography and State of Scholarship

In his recent study, Johannes Bronkhorst (2011: 1) does not share the opinion that Buddhism was a reaction against Vedic Brahmanism, as, according to him, *brāhmaņas* or Brahmins did not occupy a dominant position in the region where the Buddha preached. A third coeval group with the Brahmins and the Buddhists were the Jains. The earliest cave inscriptions from carved beds in a natural cave at Sittanavasal, in Pudukkottai district of Tamil Nadu show that Jains were in that region at least from second century BCE onwards and may have preceded the Buddhists in other regions as well such as in Mathurā [Figure 2]. This would suggest that the Jains may have been the main competitors of the

Buddhists rather than the Brahmins (Bronkhorst 2011: 20). The author continues that in the competition between Brahmanism and Buddhism, the former had an advantage, as Brahmins had always been involved in affairs of the state and were well prepared for counselling the king (2011: 99). Thus Bronkhorst introduces a critical element of affiliation to political power in the discussion, i.e. the relationship of Brahmanism and Buddhism with the king and this is an issue that finds resonance in several writings on Siam or Thailand.

Peter Skilling refers to the complex and hybrid nature of the "Siamese religion" as reflected in the Thai phrase *samana-chi-phrām*, which may be translated into "mendicants, renunciants and brahmanas" (2007: 184). The participation of Brahmins and Buddhists in joint rituals is first attested to in the Wat Maheyong inscription from Nakhon Si Thammarat, southern Thailand, dated between the seventh and ninth centuries, which records donations of buildings and materials to Buddhist monks (both as a community and individually) and of food to the community of twice-born (*dvijas* or *brāhmaņas*) (Cœdès 1961: 34-36, pl. XIII).

In his recent book, Prapod Assavirulhakarn (2010) raises several pertinent questions about the introduction of Buddhism into Southeast Asia, especially in pre-modern Thailand. On the basis of the inscriptional record, he convincingly shows that Pāli Buddhism was present in the western part of mainland Southeast Asia from around the fifth or sixth centuries CE onwards and did not come only later in the twelfth century after the reforms in Sri Lanka that unified the Theravāda Sanghas there, as previously thought. Based on a study of the Dvāravatī culture, Stephen Murphy (2010: 73) reaffirms that adoption of Buddhism was a unifying feature from the sixth-seventh century onwards. What Prapod (2010: 20) called the "Dvāravatī



Figure 2: Early Jain votive plaque with Prakrit inscription in Brāhmī script from Kankali Tila, Mathurā, India. Currently in the National Museum New Delhi [Photograph by Himanshu Prabha Ray].



*mandalas*" expanded over part of central modern Thailand and shows strong localisation at centres such as U Thong, Nakhon Pathom, Khu Bua, Lop Buri and Si Thep. But what was the exact nature of this Buddhism and how was it practised in the second half of the first millennium?

A stupa for instance was considered a sacred place for public reverence and any devotee could participate in its decoration and veneration. As evident from inscriptions from large-scale sites such as Amarāvatī, Nāgārjunakoņda and Bodhgayā, pilgrims from different regions and "sectarian affiliations" could reside in the vicinity of stūpas. In pre-modern Thailand, it was also common to find objects belonging to different traditions in the same area making it possible for Brahmanical images to be found there as well (Prapod 2010: 104). For example, Siva *lingas* are often present in Buddhist monastery compounds, as in the case of Wat Phra Chetuphon (Wat Pho) in Bangkok. Near Lop Buri, Śiva *lingas* were found in such large numbers that the hill came to be known as Khao Sapphalinga after sarvalinga (Prapod 2010: 138, 231, n. 84). To this day in Thailand, Buddhism provides the moral context and merit-making framework for most people, and Brahmanism is used for rituals connected with governance and kingship. To what extent can this present model be sustained in the context of early Thailand and India? In the next section, a brief survey of the archaeological and inscriptional material is provided to highlight the multi-religious nature of many of the so-called "Buddhist" sites in Thailand, as also the several languages used by Buddhists in the region.

# Cultural and Religious Diversity in Pre-modern Thailand

Figure 3: Dharmacakra inscribed with Pāli text in Pallava script. Currently in the Bangkok National Museum, inv. no. KTh 29 [Photograph courtesy of Paisarn Piemmettawat]. Inscriptions from Thailand provide insights into the practice of Buddhism and the diversity of languages and expressions used is indeed striking. One of the prominent categories includes Old Mon inscriptions in a variant of the Brāhmī script, which record donations by people from different groups to Buddhist monastic centres and the ritual celebrations that followed (Dhida 1999: 196-197). The donors represented a cross-section of the populace and include commoners, dancers, ascetics, *brāhmaņas*, kings and nobles. The donations involved such activities as casting of Buddha images, building *stūpas* and *vihāras*, repairing damaged images or freeing caged animals (Prapod 2010: 86).

A second category of epigraphs comprises of extracts from the Buddhist Canon and several religious formulas mostly in Pāli (Revire, this volume). These are engraved on stone *dharmacakras* or wheels of law, octagonal pillars, stone slabs, clay tablets and reliquaries and

are dated between the sixth and eighth centuries CE **[Figures 3-5]**. This practice is well attested in both ancient Thailand and Myanmar, but no contemporary canonical inscriptions have been found in first-millennium Sri Lanka. In contrast, religious formulas and extracts from canonical texts occur at several Indian sites from at least the Mauryan period onwards. Old Mon records in Thailand use both Pāli and Sanskrit loanwords but there is little unanimity regarding Southeast Asian scripts, which continue to follow nineteenth century categorisation and are termed "pre-Pallava," "Pallava," "Gupta" and so on (Skilling 2003: 104-107).

This diversity in language and script indicating complexity of Buddhist traditions adopted in the region, is matched by a variety of religious affiliations at archaeological sites. Khok Chang Din for example is a cluster of twenty historic sites at the foothills of Khao Dok, southwest of the moated settlement of U Thong, which have yielded bricks, stones, sherds including Tang ceramics. The site was identified in the 1960s, but subsequent excavations by the Fine Arts Department unearthed a terracotta vessel filled with silver "coins" stamped with the conch symbol from site no. 18. At site no. 5, laterite bases of a rectangular structure were discovered, as also finds of stone Siva *lingas* and *mukhalingas* [Figures 6-8] now displayed in the U Thong National Museum (Skilling 2003: 93).

These finds are matched by a large number of hybrid imagery and inscriptions found throughout first-millennium Thailand. The sixtheighth century "Bodhisattva cave" (Tham Phra Phothisat), in Saraburi province shows an enthroned Buddha preaching to the gods Śiva and Viṣṇu (see photograph pages 132-133, this volume), while an inscription under the huge relief of Buddha seated and preaching in the "Hermit cave" (Tham Ruesi) in Ratchaburi province possibly reads "the pious work (or gift) of the holy *r*<sub>i</sub>*i* [ascetic or hermit] Śrī Samādhigupta"



Figure 4: Ye dhammā formula inscribed on terracotta found at Phra Pathom Chedi, Nakhon Pathom. Currently in the Bangkok National Museum, inv. no. DV 1-1 [Photograph by Himanshu Prabha Ray].

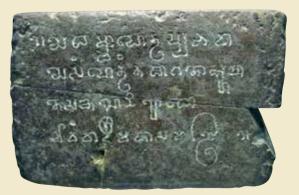


Figure 5: Ye dhammā formula on stone found in Si Thep, Phetchabun province. Currently in the Phra Narai National Museum, Lop Buri [Photograph courtesy of Nicolas Revire].

(Cœdès 1961: 19, pl. VII: Brown 1996: 30-31: Revire 2012: 93-98, figs 1-3). Similarly Robert Brown reports an inscription (K. 981) carved on a sema or boundary stone from Wat Si That Pramancha in Udon Thani province, which bears the legend "this ascetic honored by the brahmans has erected this stone serving as a marker with the bhiksu" (see also Murphy, this volume). But these donative inscriptions are not limited to the use of Sanskrit. A Mon inscription of circa 750-850 CE on a sema from Wat Non Sila in Khon Kaen province also reads: "The Brahman Mahavat gives the fruit of this merit to Rasa, who is of the lineage of Brahma, and to [male name is missing], who is a relative." A second comparable Mon inscription on another sema from the same site also seem to record the practice of "transference of merit" by naming three men who gave merit to three others and then ends with "May the merit be offered to Maitreya" (Brown 1996: 31; Murphy 2010: 93). Finally, Brown discusses the stele bearing the Bo Ika inscription which carries a Buddhist donation on one side, while the other side records the establishment of a golden Śiva linga (Brown 1996: 32).

Furthermore, many first-millennium mitred images of the Brahmanical deity Visnu have long been uncovered at sites in southern Thailand (O'Connor 1972: 21), as also in eastern Thailand around Prachin Buri province. One 67 cm. high four-armed stone image of Visnu was found on the site of Wat Sala Thueng in Chaiya (Lavy, this volume, figs 1-2). Three other similar images are known: two were found in the region of Nakhon Si Thammarat and one in the area of Sichon. Other specimens are reported to come from Khao Si Wichai, Wiang Sa, Wat Phra Phikanet, about 20 kilometres north of Chaiya, and along the coast from Sichon to Nakhon Si Thammarat as well as from Sathing Phra. The most impressive is perhaps the 202 cm. high image of Visnu from Takua Pa on the west coast of the peninsula (Jacq-Hergoualc'h 2002: 118-125). These Visnu images are not the sole representatives of Brahmanism as Śiva lingas are also known to come from the same region. These vary in size from 20 cm. to 147 cm. A truly exceptional ekamukhalinga, with the face of Siva on one side, was found at Nong Wai, about 20 kilometres north of Chaiva [Figure 1]. In addition, we can add the twenty ablution bases and mortises found in the area, though it is difficult to establish a link between them and the Siva *lingas* referred above, except perhaps with the one found in an ancient temple at Nakhon Si Thammarat (Jacq-Hergoualc'h 2002: 128-133; Wannasarn, this volume, figs 7-9). Sathing Phra also yielded an early, possibly sixth century, image of Ganeśa which may be the oldest found in the region (Jacq-Hergoualc'h 2002: 133-134). In the coastal region extending from Sichon to Nakhon Si Thammarat, the finds of Brahmanical images were often associated with brick temples and nearly thirty shrines were identified, though many of these have since been destroyed. Two of the largest were at Khao Kha (Sichon district) and in Wat Mokkhalan (Tha Sala district). What is significant is the attested presence of Buddhist remains in the same area dated from around the fifth to eighth centuries CE (Jacq-Hergoualc'h 2002: 143-158).

Figure 6: Stone ckamukhalinga from U Thong, Suphan Buri province. Currently in the U Thong National Museum [Photograph by Himanshu Prabha Ray]. From what precedes, it is evident that we can no longer consider the Brahmanical and Buddhist material at U Thong, Bodhisattva cave, Si Thep, etc. as sequential. Instead, Brahmanism and Buddhism clearly coexisted in many areas of pre-modern Thailand. One further comment requires emphasis. Secondary writings often divide Buddhism into two opposing camps, viz. Hīnayāna and Mahāyāna. This classification is however erroneous, since "Hīnayāna" is a polemical term that even in Mahāyāna texts is used in specific contexts. Prapod reminds us that monks affiliated to different "sects" sometimes lived in the same monasteries and lay support was given to members of different communities even by the same person. Even today, most Buddhists in Thailand do not think of themselves as "Theravāda" Buddhists but rather simply as supporters of the Buddha's *sāsana* or religion, and include in their practice ideas from both "Hīnayāna" and "Mahāyāna" traditions, as well as many practices that are not derived from Buddhism at all, such as the worship of local spirits (2010: 71-112).

One has also to desist from identifying schools in Buddhism based on linguistic evidence alone. For example languages very similar to Pāli were used by other "Hīnayāna sects," and Sanskrit was used by various groups, not necessarily Mahāyānist, such as the Sarvāstivādins or Mūlasarvāstivādins, the Dharmaguptakas and even possibly the Theravādins of the Abhayagirivihāra branch. As Prapod has underlined:

People perceived religion as the institution in which to place their trust, with all religions being regarded as auspicious, and which could be applied to different situations in everyday life [...]. The idea that one professes to belong to a single religion is foreign to the Southeast Asian mind, which sees no need to synthesize multiple beliefs into one exclusive belief. (2010: 147)

In the final analysis it needs to be stressed that in ancient times, societies were not monolithic and that religions shared a common vocabulary, rather than demanding exclusive allegiance. How does this overview compare with the situation in the Indian subcontinent during the first millennium of the Common Era? Archaeological data corroborates the presence of Brahmanical temples at so-called Buddhist sites of Mathurā and Nāgārjunakoṇḍa and the use of Prakrit in *dharmacakra* pillar inscriptions from the Buddhist site of Amarāvatī (Seshadri Sastri 1984: 256-257) **[Figure 9]**.



Figure 7: Stone Śwa linga from Khok Chang Din sanctuary, near U Thong, Suphan Buri province. Currently in the U Thong National Museum [Photograph by Himanshu Prabha Ray].



Figure 8: Stone Śiva linga and yonī from U Thong, Suphan Buri province. Currently in the U Thong National Museum [Photograph by Himanshu Prabha Ray].

# Nāgārjunakoņda: The Religious Landscape

A region, which provides crucial archaeological data on the religious landscape from the earliest Neolithic settlement in the third millennium BCE to the sixteenth century CE, is the secluded Nāgārjunakoṇḍa valley extending over 23 square kilometres in Andhra Pradesh, shut in on three sides by offshoots of the Nallamalai hill range. More than thirty Buddhist establishments, nineteen Brahmanical temples and a few medieval Jain shrines were unearthed in several seasons of archaeological excavations conducted at the site after its discovery in 1920 until its submergence in 1960.

Early Buddhist religious architecture occurs throughout the valley, while early Brahmanical or later Hindu temples were located mainly along the banks of the Krishna river and around the citadel area **[Figure 10]**. The inscriptional records dated to the third and fourth century CE refer to the Ikşvāku kings based at Nāgārjunakoṇḍa. A citadel complex overlooking the Krishna river was unearthed in archaeological excavations and several residential structures were located outside it. It is significant that religious architecture of both the Brahmanical and the Buddhist devotees was built on diverse ground plans and both used the apsidal form, associated earlier on only with the Buddhists (Ray 2004: 343-359).

Nāgārjunakonda is unique in that it provides a large corpus of inscriptions associated both with Brahmanical as well as Buddhist architecture which allows insights into several aspects of interaction between the community and religious architecture. The dynasty of the Ikṣvākus is prominently represented in the epigraphs, but royal patronage is indicated for only three of the nineteen Brahmanical temples; patronage for the other temples being provided by the community in general. An analysis of these records of donations indicates that in a majority of the Buddhist inscriptions the motive as stated by the donor related to attainment of *nivāņa* and the welfare and happiness of the world. A similar desire is evident in the inscription from the Brahmanical Pushpabhadrasvami temple, which was established by the king's wife and son for his long life and victory (Rupavataram 2003: Tables 30-31).

Generally speaking, Buddhist monuments carried records in Prakrit [e.g. Figure 11], while Brahmanical monuments had records in Sanskrit, though there were notable exceptions: a Sanskrit epigraph of the 24th year of Ehuvala Chantamula, (ca 294 CE) when Kumaranandi, the son of Iśvaradatta, and a headman of Syandakaparvata along with his son Īśvarabhatta and his wife and other relatives installed a stone image of the Buddha (Sircar & Krishnan 1960-61: 17-22); and correspondingly a Prakrit record of the 30th year of Ābhīra Vasusēna recording the erection of the image of Aṣṭabhujasvāmī or eight-armed Viṣṇu (Sircar 1960-61: 197-204). It is also true that a majority of the inscriptions are in Prakrit and only six are in Sanskrit (Soundararajan 2006: 514).

Thus the assumption by historians that kings established temples

and donated to brahmanas to seek legitimisation for their rule and that

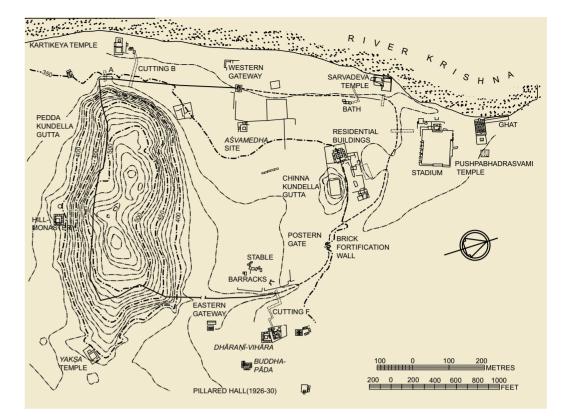
these religious shrines were agents of acculturation is not substantiated

by the available data. Instead the data from Nagarjunakonda clearly

establishes the intersection of diverse religious traditions, some

associated with communities settled earlier in the region and others

Figure 9: Dharmacakra pillar inscribed with Prakrit inscription in Brāhmī script from Amarāvatī, Andhra Pradesh, India. Currently in the Archaeological Museum Amaravati [Photograph courtesy of Nicolas Revire].



drawn in by movements of trading and craft groups, Buddhist clergy as well as internal dynamics associated with the emergence of the site as a centre of political power. Nāgārjunakonda as is evident from the archaeological record participated in both coastal networks as well as overland trading activity. It is also unusual in the varied secular architecture preserved at the site, including a citadel, an elaborate water system, residential complex and what has been termed an amphitheatre. Figure 10: Distribution of archaeological sites on Nāgārjunakonda hill, Andhra Pradesh, India [Drawing adapted from Sarkar & Misra 1999: pl. XIII].

Several conclusions may be drawn from the excavations at Nāgārjunakoṇḍa **[Figure 12]**. One, the third-fourth century CE kings of the Ikṣvāku dynasty performed Vedic sacrifices and patronised the construction of temples, while their queens donated to the Buddhist Saṅghas. However, both the Brahmanical temples and the monastic complexes at the site were supported by lay devotees making it difficult to categorise them on the basis of their association with the political elite only. The monastic complexes at Nāgārjunakoṇḍa drew resources from a vast hinterland and while there is inscriptional evidence to suggest that monks from Sri Lanka were possibly resident at the site, there is debatable evidence for the centre sending out monks to preach in different parts of the subcontinent (Gethin 2012: 35-36).

One final point that needs an explanation is the changing power dynamics between the Brahmanical temple and the Buddhist shrine in peninsular India, i.e. the region south of the Vindhyas, from the fourthfifth century CE onwards. Bronkhorst explains that in this period, Buddhists were ready to concede that there were occupations which should best be left to Brahmins, such as all forms of divination and interpretation of signs, certain sciences, most notably mathematics and astronomy, and the art of giving professional advice to kings. Therefore, in the case of physiognomy, astrology, astronomy and mathematics there are Brahmanical, but no Buddhist treatises. It is also true that there are no Buddhist treatises that might compete with the *Arthasāstra* or with the Laws of Manu (Bronkhorst 2011: 109). The points raised by Bronkhorst are well taken and need serious consideration. Somewhat different insights are, however, provided by the diversity of languages and scripts that expanded across the Bay of Bengal. Were Brahmins or Buddhist monks the sole transmitters of knowledge in this early period? In the next section, this issue is discussed with further reference to the archaeological data for the writing from the Indian subcontinent and Southeast Asia, especially Thailand.

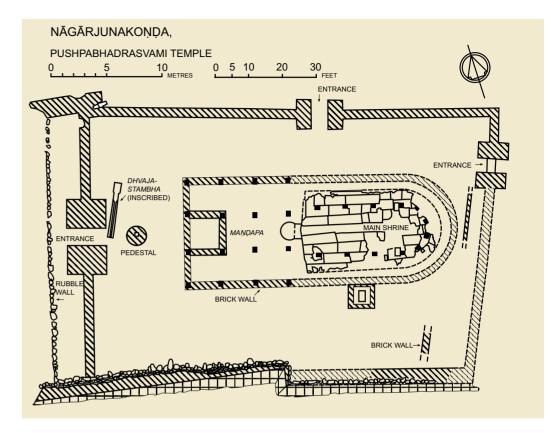
# The Written Word and Information Transfer

Figure 11: Four-sided pillar inscribed with a Buddhist Prakrit inscription in Brāhmī script from Nāgārjunakoņda, Andhra Pradesh, India. Currently in the Archaeological Museum Nagarjunakonda [Photograph courtesy of Nicolas Revire].

In an earlier section, I have referred to the absence of any correlation between language, script and religious affiliation. It is suggested here that in the historical period, one significant use of writing was for codifying knowledge relating to economic transactions. Trading activity by its very nature was mobile, cut across political frontiers and as a result created its own networks of communication and information transfer. Around the third-second centuries BCE, urban centres in the western Deccan evolved from exchange and market centres largely as a result of the expansion of trade. In Andhra Pradesh, on the other hand, urban centres were in most cases, associated with localised chieftains and  $r\bar{aj}as$  as a result of the growing power of the megalithic communities supplemented with trading activities. Further south, there is a clear distinction in settlements along the coast in contrast with those located inland.

The pace of change and inputs from trading communities is evident in references to the nigāma or market centre and the gosthī or market association. In both the western and eastern Deccan changes in the nature of settlement are associated with increased religious activity as indicated by the construction of Buddhist monastic centres along trade routes and along the coasts. This was not the case further south where there is evidence for the presence of Jainism in the region around Madurai in the archaeological record. The earliest cave inscriptions from Sittanavasal from Puddukkotai region of Tamil Nadu show that Jains were in that region at least from second century BCE onwards. The Jains may have preceded the Buddhists in other regions as well and may have been the main competitors of the Buddhists rather than the Brahmins in this early period (Bronkhorst 2011: 20). The early Tamil sources, however, describe a diverse religious landscape with the concurrent presence of brāhmanas, the performance of sacrifices and the reverence of the hero who led the communities in battle.

These diverse communities in peninsular South Asia used at least four languages, viz. Prakrit, Tamil, Old Sinhalese and Sanskrit, which were all written in Brāhmī scripts, with some evidence for the presence of Kharoṣṭhī as well. Brāhmī scripts were adopted for inscribing names in more than one language on pottery in peninsular India. This clearly indicates the presence of at least four language groups involved in trading activity in the region – those using Tamil, Prakrit, Sanskrit and



Sinhala, with several overlaps between these networks. This complexity is further enhanced by finds of sherds with early Brāhmī inscriptions in fifth-fourth century BCE levels at Anurādhapura in Sri Lanka.

The finds of sherds inscribed with Brāhmī letters from Anurādhapura in Iron Age levels have raised several questions. A majority of the sherds are of coarse and medium black and red ware of local manufacture and the inscriptions are post firing. The inscriptions comprising of either letters or names are often described as being in Prakrit (Coningham & Allchin 1995), but this issue needs to be re-examined, in view of a different perspective presented by Iravatham Mahadevan (1996a). Mahadevan argues for Sinhala-Prakrit (Old Sinhalese) as the language of the inscribed sherds, including one sherd from Kodumanal. After the early centuries CE, the inscribed sherds decline in frequency and this corresponds to the increasing use of palm-leaf manuscripts (*olas*). Ivory manuscript covers are also attested to in the excavations at Anurādhapura (Coningham & Allchin 1995; 178).

The finds of inscribed sherds at Anurādhapura in well-dated sequence has led the excavators to suggest mercantile involvement in the rise of a Brāhmī script or at least in its introduction into Sri Lanka (Coningham *et al.* 1996: 73-97). An analysis of the inscribed fragments from Anurādhapura indicates that the legends were inscribed on lids and on ceramic vessels and that many of these vessels may have been dedicated to religious establishments. During excavations of the northern and southern *ayakas* or stone pillars of the main *stūpa* at Jetavana in Anurādhapura, seventeen vessels were found containing conch shells,

Figure 12: Plan of an apsidal temple at Nāgārjunakonda, Andhra Pradesh, India [Drawing adapted from Soundararajan 2006: 227, fig 71].



Figure 13: Terracotta seal from Nakhon Pathom depicting a twomasted ship. Currently in the Bangkok National Museum, inv. no. 2309 [Photograph courtesy of Paisarn Piemmettawat]. ivories, over two thousand beads, hundreds of fragments of semi-precious stones and so on (Coningham *et al.* 1996: 90). Thus the close association of mercantile activity with travels by Buddhist clergy is evident.

In addition, nearly two hundred inscribed potsherds were found at the site of Kodumanal in Coimbatore district of Tamil Nadu in stratified contexts. These are mostly in Tamil language written in the Tamil-Brāhmī script and a few are in Prakrit in a Brāhmī script. These have been dated through archaeomagnetic tests to between 300 BCE and 200 CE ( $\pm$  50) (Mahadevan 1996a: 59). The inscriptions on the pots include Tamil names such as Kannan Atan, Pannan, Antavan Atan, etc., as also Sanskrit names like Varuni. One burial (megalith II) vielded a sherd with the

name Visaki. Another significant discovery was the presence of the term *nikama* (Rajan 1996: 79). Mahadevan argues for Sinhala-Prakrit (Old Sinhalese) similar to the language found on one sherd from Kodumanal.<sup>1</sup>

At least 17 of the 66 inscriptions on pottery from Arikamedu are known to be in Tamil. A majority of the inscribed sherds date to the first-second centuries CE, though the earliest find at the site was from the megalithic levels dated to the third century BCE. These consist largely of masculine personal names, such as "[...] *kuttai*" and has been identified as Prakrit *guttä* or *gutta* of the Sri Lankan cave inscriptions. Another proper name that has wider prevalence is "Kuyiran" (Tamil) or "Kubira" (Old Sinhalese) both derived from Sanskrit Kubera. Variants appear as "Kupiro" at Bharhut in central India, "Kubirako" from Bhattiprolu in Andhra Pradesh, "Kubira" in Sri Lankan cave inscriptions and "Kuviran" in early Tamil cave inscriptions (Mahadevan 1996b: 295-296).

Another 214 inscribed sherds were recovered from the archaeological excavations at Vaddamanu located 10 kilometres south-east of Amarāvatī on the Andhra coast. The largest concentration of 109 sherds was found in the Period II stratigraphic layer dated between 100 BCE and 200 CE, though the overall chronological span ranges from 200 BCE to the fourth century CE (Krishna Sastri *et al.* 1992: 116-140). The monastic complex at Salihundam or ancient Kattaharama also on the Andhra coast yielded 80 inscribed sherds and the few complete readings from the site would suggest that these were on platters or pots donated to the monastery (Subrahmanyam 1964: 119-122).

Thus several language groups used Brāhmī scripts, though there are regional variations, and the fact that it had wide currency across most parts of the Indian subcontinent around third-second centuries BCE is an indication of the extended linkages of the groups using it. Inscriptions on pottery have an extensive distribution in the early historic period and inscribed pottery fragments are found both at nonmonastic and Buddhist monastic sites. Pots were used for transporting commodities and hence the extensive distribution of inscribed sherds. Particularly noteworthy in the monastic context are the inscribed bowls and vessels carrying dedicative inscriptions (Ray 1987: 2-3). Overall, the ceramics which bear inscriptions are varied and include black-and-red ware, all-black ware, russet-coated painted ware, rouletted ware and so on. Of these, fragments with legible inscriptions are few and these in a majority of cases contain names.

These inscribed sherds are in addition to the large numbers of seals and sealings found at archaeological sites in the Indian subcontinent (Thaplyal 1972). Seals were used for marking merchandise (Arthaśāstra II.21.2-3); they were stamped on wet clav laid over fastenings on the mouths of pots containing valuables (Khadirangārajātaka, no. 40). They were also used for securing documents and for identification. An early Buddhist text, the Milindapañha, refers to the custodian of seals. These seals occur in a variety of materials such as stone, ivory, copper and the ubiquitous terracotta at a range of archaeological sites. Particularly relevant to our discussion are the carnelian seals and intaglios with inscriptions found at sites in Sri Lanka and at least at four major coastal centres in Southeast Asia, viz. Khuan Luk Pat in Krabi province and Chaiya in southern Thailand, Kuala Selinsing on the Malay Peninsula, and Oc Eo in southern Vietnam. The earliest specimen of carnelian seals with Brāhmī legends from Khuan Luk Pat dates to approximately the first century CE, though these continued to be in use until the sixthseventh centuries CE as indicated by later finds (Ray 2000: 87-120). This corpus is supplemented by finds of seals with legends in alleged Kharosthi, e.g. a seal from U Thong apparently kept in the Phra Narai National Museum in Lop Buri. Kharosthī characters have also been identified on a seal matrix of tin from Oc Eo, while the male head on another tin seal resembles the head of Kusāna ruler Miaos on his coins (Mukherjee 1990: 3).

A symbol widely distributed in the Indian Ocean region is the ship symbol, which occurs around the first-second centuries CE on punchmarked, cast copper and Śātavāhana coins, terracotta sealings and as graffiti from deltaic Bengal and the Andhra coast (Ray 2000: 52). Other examples of the use of the ship-symbol on pottery and coins are known from Sri Lanka (Weishaar *et al.* 2001: 15-16) and southern Thailand. A terracotta seal from Nakhon Pathom depicts a two-masted ship identified as a Southeast Asian vessel with outrigger (Lyons 1979: 355) **[Figure 13]**.

Another archaeological site from the other end of the spatial spectrum is Khao Sam Kaeo located in the upper Thai-Malay Peninsula (Bellina-Pryce & Praon 2008; Bellina *et al.*, this volume). Archaeological excavations conducted here have identified settlement patterning at the site in the late prehistoric period and the extent to which the sociocultural parameters changed in the early historical period. The site on the Tha Taphao river is particularly suited for this purpose as it was involved with both inland and maritime exchange involving the use of complex technology in glass and hard stone working. One gold seal bears a Sanskrit inscription that is stylistically dated fifth to sixth century CE. Two of the other three seals and the bicolour sphere all display the genitive forms of names in Prakrit language, written in an early Brāhmī script that was used from the first century BCE to the first century CE.

One of the earliest Tamil inscription found in Thailand dates to around the fourth century CE and is engraved on a small flat rectangular stone now in the possession of the temple museum of Wat Khlong Thom in Krabi province. It reads "*perumpatan kal*" or stone of the goldsmith (Karashima 2002: 10). How is this data from inscribed pottery and seals written in Brāhmī scripts, but in a variety of languages, such as Sanskrit, Prakrit, Sinhala and Tamil to be understood? The shared culture that extended across not only South Asia, but also the Indian Ocean was part of a literate tradition, which was by no means controlled only by the ruler or the Brahmins. It also included Buddhist and Jain ascetics, as well as navigators and trading and crafts groups. Writing facilitated the storing of information, cumulative knowledge promoted new genre of cultural and artistic expression and aided ordering of information under numeric and alphabetic heads and the use of maps (Goody 2001: 144).

There is a marked difference in the distribution pattern of inscriptions in stone in peninsular India as compared to those on pottery and seals. The earliest are the rock edicts in Prakrit of the Maurvan ruler Aśoka, which are unique in the history of South Asia and are not replicated by subsequent kings. These are perhaps the only records where the king speaks to the populace in the first person and addresses them directly. The second-first century BCE period in India marked a shift in the relationship between the king, religious centres and the groups that patronised these as indicated by the placement and contents of the inscriptions. An analysis of the epigraphs shows a shift from local and individual entrepreneurs to kin-based trading groups using a common language and with more than casual links with religious institutions. Epigraphs were now located within Buddhist monastic establishments rather than in their vicinity. Instead of providing communication between the king and the populace, the inscriptions record donations to religious centres made by diverse groups and suggest the beginnings of religious travel to sacred centres.

From the fourth century CE onwards, inscriptions were increasingly inscribed on copper plates indicating both a change in the nature of recording, affiliation to religious institutions and transformation in the social base. At the same time these inscriptions reflect political consolidation and increasing complexity of the administrative structure as compared to those of the earlier period. For example, the Vilavetti copper plates of the fifth century Pallava King Simhavarman refer to taxes payable by metal-workers, leather-workers, weavers, shop keepers, artisans, water-diviners and so on, though the specific amounts are not mentioned (Mahalingam 1988: nos. 15, 78-81). This is further matched by an enlargement in the number of terms used for habitation types indicating increasing hierarchy in settlement pattern.

There was a corresponding increase in the resource base as evident from grants of land and villages to Brahmanical temples and Buddhist monastic establishments and elaboration, as also expansion in the social base of the temple, coinciding with marked transformations in the nature of the Buddhist monastic establishments. Modifications in ritual and ceremony meant alterations in consumption patterns and changing patterns of trade. Another change was in the use of language, such as Sanskrit mixed with Prakrit from the third and fourth centuries CE onwards.

As in South Asia, in Southeast Asia also early inscriptions are often associated with religious structures. In maritime Southeast Asia, the earliest inscriptions are in Sanskrit, inscribed on seven stone pillars located in the Kutei region of East Kalimantan on the east coast of Borneo, traditionally dated to the fifth century CE on palaeographical ground. These record the performance of a sacrifice by King Mūlavarman at the sacred place of Vaprakeśvara and the setting up of the sacrificial post by the Brahmins. A large number of donations were made on this occasion. The correspondence between these inscriptions and those from India is striking and it is evident that a conventional pattern seems to have been followed.

There was also a clear shift in maritime networks around the middle of the first millennium CE and pilgrims visiting sites associated with the life of the Buddha formed a major category of travellers, as also the setting up of religious shrines on successful completion of sea voyages. A cluster of fifth-seventh century inscriptions of unequivocal Buddhist affiliation was found in Kedah on the west coast of the Malay Peninsula. This includes engraving of a Buddhist formula on stone a feature that does not occur among contemporary records from the Indian subcontinent, though the formula is found on terracotta sealings. Three of these inscriptions are made of local stone and bear similar illustrations of Buddhist stūpas. Texts very similar to these inscriptions have been found on the island of Borneo and on the coast of Brunei (Wisseman Christie 1995: 256). The most interesting of these inscriptions in Sanskrit is that of Buddhagupta, which refers to the setting up of the stone by the mariner Buddhagupta, resident of Raktamrttika, often identified with Rājbādīdāngā in Bengal, on the successful completion of his voyage (Chhabra 1965: 20-26).

# Conclusion

From what precedes, certain conclusions may be drawn. First, information on seafaring communities from historical and archaeological sources indicates that their make-up cut across religious lines. Hence attempts at categorising them within present national boundaries may be in keeping with current aspirations, but has little support historically. Second, while trade provided an important motive for sea-travel, it was by no means the only reason for travel by sea and needs to be studied within a wider perspective of seafaring activity and maritime networks. Third, the role of religions, such as Buddhism or Brahmanism, in motivating and supporting seafaring activity needs to be recognised and accepted. Finally, for an appreciation of cultural interchanges across the Bay of Bengal, it is crucial to highlight the diverse channels of communication, which also included oral transmission by priests and pilgrims, traders, wandering story tellers and entertainers. It is only then that a holistic understanding of cultural interaction across the maritime world will emerge.

Moreover, archaeological research during the last few decades has deepened the past of Thailand and challenged the notion of a unified superimposed "Dvāravatī kingdom." In the 1980s, a careful study of aerial photographs of the central plain of Thailand produced an atlas of sixty-three moated settlements (Phongsi & Thiwa 2524) that have been generally identified as remnants of this "Dvāravatī kingdom," on the shores of the former extent of the Bay of Bangkok. During the first millennium CE, it has been suggested that the sea level was appreciably higher and the shallow bay extended inland many more kilometres than at present, possibly creating an irregular shoreline with numerous peninsulas. Particularly relevant to this section is the Chao Phraya valley, the large fertile lowland suitable for rice cultivation and accessible to maritime travel through the Gulf of Thailand (Trongjai, this volume). While Buddhism provided a common faith to the several contemporary centres and the diverse and heterogeneous communities inhabiting the region during the first millennium CE, it is also significant that as in India, Buddhist centres co-existed with Brahmanical shrines.

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# Endnote

 Mahadevan's study (1996a) has not taken the Anurādhapura material into account, but is based on nine sherds from coastal centres in India dated between second century BCE and the first century CE. Other sites in Tamil Nadu include Arikamedu (two sherds) and Alagankulam (two sherds).

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# **Conch-on-hip Images in Peninsular** Thailand and Early Vaisnava Sculpture in Southeast Asia Introduction

The dating of what are probably the earliest Brahmanical sculptures from Thailand, and indeed from all of Southeast Asia, has come under renewed scrutiny in recent years. The well-known Visnu (or Vāsudeva-Krsna) image [Figures 1-2], from Chaiya, Surat Thani province in peninsular Thailand, has attracted considerable attention, but there is little consensus among scholars regarding its date or immediate stylistic precedents.

PAUL A. LAVY

Since the groundbreaking work of Stanley O'Connor (1972: 39), many scholars have followed his fourth century attribution for the date of the Chaiya image, or his terminus ante quem of circa 400 CE.1 Others have accepted O'Connor's argument (1965: 49-57) that the Chaiya image may be the earliest Brahmanical sculpture in Southeast Asia, but have advocated various dates ranging through the fifthsixth centuries CE.<sup>2</sup> The proponents of O'Connor's fourth century date have demonstrated a somewhat blinkered tendency to ignore without comment the arguments that favour a later date, and this in spite of considerable evidence that a fifth or early sixth century date is justified. At the other end of the spectrum, the recent suggestion of a date in the second quarter of the sixth century strains the evidence, attempts unsupportable specificity construed through debatable stylistic comparisons, and perhaps pushes the date rather too late (Havenon 2006-07: 86-90).

By comparison to the lengthy and unresolved discussion surrounding the Chaiya image, there has been almost no analysis of two closely related and long-known Visnu sculptures, both from Nakhon Si Thammarat province, Thailand [Figures 3-4, 7-8]. To these may be added a third conch-on-hip Visnu from the same province (Preecha & Wannasarn 2546: 90-107; Wannasarn 2013: 76-78) [Figures 5-6]. Discovered in 2000, it provides important new and corroborating evidence for the arguments that will be advanced here.

This essay examines these four sculptures, and offers a reassessment of the issues and arguments surrounding their dates and stylistic relationships.<sup>3</sup> It then seeks to determine a relative chronological sequence for their development, an endeavour that has not been previously undertaken. While scholars have long observed that the Chaiya image exhibits stylistic features that closely relate it to sculpture from India, the same cannot be said for the three Nakhon Si Thammarat Visnus, which do not have close South Asian counterparts. Thus, this essay utilises comparisons with Indian sculpture to reaffirm a late fifth or early sixth century date (ca 500 CE) for the Chaiya image, but does not

Far left Figure 1: Vāsudeva-Krsna, found at Wat Sala Thueng, Chaiya district, Surat Thani province, Thailand, ca 500 CE, sandstone (?), H. 67 cm., Bangkok National Museum [Photograph] courtesy of Paisarn Piemmettawat].

Left Figure 2: Profile of Vāsudeva-Krsna, found at Wat Sala Thueng, Chaiya district, Surat Thani province, Thailand Photograph courtesy of Artibus Asiae, after O'Connor 1972: fig. 1b].



Figure 3: Visnu, found at Wat Phra Phreng, Phra Phrom district, Nakhon Si Thammarat province, Thailand, ca early 6th cent. CE, sandstone (?), H. 65 cm., Wat Phra Mahathat Museum, Nakhon Si Thammarat [Photograph courtesy of Paisarn Piemmettavat]. depend on South Asian evidence to chart the subsequent development of the Nakhon Si Thammarat Viṣṇus.<sup>4</sup> Instead, following the advice of Robert Brown (2000: 2) to focus on the "evidence within the Southeast Asian corpus itself," it turns attention to their relationships with other Southeast Asian sculpture and to comparative analysis among the four images themselves.

# The Conch-on-hip Image Type

The conch-on-hip iconographic type that is the focus of this essay is represented in Southeast Asia by at least seven, and possibly twelve, sculptures: (1-4) the four images from peninsular Thailand that are discussed here **[Figures 1-8]**; (5) the Viṣṇu from Tuol Koh in Ta Keo province, Cambodia, now in the National Museum, Phnom Penh (Dalsheimer & Manguin 1998: 91-93, fig. 1; Lavy 2004: 245-249); (6) a Viṣṇu reportedly from the site of Oc Eo in An Giang province, Vietnam, and now in the Museum of Vietnamese History, Ho Chi Minh City (Malleret 1959: 393-395, pl. LXXXII; Lavy 2004: 275-278); and (7) a Viṣṇu image from Wat Krapau Brik in the village of Vong The near Ba The, also in An Giang province, and also now in the Museum of Vietnamese History (Malleret 1959: 395-396, pl. LXXXIIIa-b; Lavy 2004: 278-279, 343-344).

There are at least five additional candidates, but in each case it is difficult to determine with any degree of certainty whether a conch was originally present or placed against the hip. Two high-relief stone Visnus from Suphan Buri province, Thailand - one in U Thong district and the other at the city pillar shrine in the municipal district of Suphan Buri – may have been conch-on-hip images, but they are today obscured beneath heavy layers of gold foil (Wannasarn 2013: 86-88, figs 2.14 and 2.16). Another stone relief sculpture, stylistically related to the Suphan Buri images and also presently encrusted in gold leaf, is housed at San Phra Kan in Lop Buri, Thailand (Dhida 2545: 127). A fourth possibility is a small and badly damaged sculpture from Nhon Nghia near Can Tho, Vietnam, now in the Can Tho Museum (Lê 2006: 64, 77, 198, figs 44-45, 81b). The fifth is an image from Trapeang Veng, Tra Vinh province, Vietnam, known to the present author only through a drawing (Malleret1963: 17-19, fig. 3). In total, these twelve images probably range in date from circa 500 CE (the Chaiya image) to perhaps as late as the early seventh century (the Ba The, U Thong, and Lop Buri images).

Although these twelve images vary in terms of style, state of preservation, and in aspects of their iconography, they belong to a large family of early Vaisnava images from Southeast Asia characterised by four arms (*caturbhuja*), a bare torso, a mitred headpiece, and a long robe worn around the hips. The primary iconographic trait that distinguishes these sculptures from other "Visnu" images is the conch shell (*sankha*) held akimbo by the anterior (or "natural") proper left hand against the proper left hip.<sup>5</sup>

Characterised by a heavy round body and pronounced whorls at the apex, these *saikhas* are usually identified as *Turbinella pyrum*, a species of gastropod that inhabits the Bay of Bengal, the coast of southern India, and the waters around Sri Lanka. Known more commonly as the "Indian Chank," these shells have a long history of ritual use and cultural significance throughout much of India (Hornell 1915). As ritual implements for libations, lustrations, or producing sound, they are notable in Southeast Asia particularly in the art of eleventh-thirteenth century Angkor (Krisda 2010: 156-157). This is a period from which numerous ritual conches survive in bronze, stoneware, and, more rarely, natural shell with bronze mounts (Boisselier 1966: 333-334; Jessup & Zéphir 1997: 322, cat. no. 105; Soutif 2008; Rooney 2010: cat. nos. 20, 21, 47, 135, 136). As an aquatic symbol associated with creation and an emblem of a warrior (i.e. a war-trumpet), the conch has been a perennial element of Vaiṣṇava iconography from nearly its inception (Krishna 1980: 30-40; Taddei 1991: 647-655; Srinivasan 1997: 185, 216-217).

Vaisnava images of the conch-on-hip type seem to have first appeared in the Kusāna art of Mathurā (second-third century CE) [Figures 9-10], remained relatively common through the Gupta period (fourth to mid-sixth century CE) [Figures 11-14], and occurred sporadically in Indian art thereafter. By the fifth century, however, the conch was increasingly, but to varying degrees, detached from the hip (Bautze-Picron 1985: 442) [Figures 13-14].<sup>6</sup> In Southeast Asia, conchon-hip images appear - according to current evidence and confirmed through stylistic analysis - to have been exclusively early in date, i.e., confined to the sixth and perhaps early seventh centuries CE. During the late sixth and early seventh centuries, the conch-on-hip iconography was replaced by, or evolved into, a new iconographical type that was probably a Southeast Asian innovation (Brown 2000: 10). The conch was no longer placed on the left hip, but was instead elevated in the raised left hand. Thus, the new arrangement of the attributes became, clockwise from the lower proper right hand, the orb, discus or wheel (*cakra*), conch (*sankha*), and mace or club ( $gad\bar{a}$ ).<sup>7</sup> This new iconography occurred not only in peninsular Thailand, but also in eastern Thailand, Cambodia, southern Vietnam, and, to a more limited degree, in Java and Myanmar (Lavy 2004: 303-304, n. 5). It was particularly popular in the Khmer artistic tradition where its continuity is indicated by numerous sculptures dating from the pre-Angkorian period through the sixteenth century (e.g. Jessup & Zéphir 1997: cat. nos. 31, 34, 69, 108, 115) and



Figure 4: Back of Visnu, found at Wat Phra Phreng, Phra Phrom district, Nakhon Si Thammarat province, Thailand [Photograph by Paul Lavy].



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Left Figure 5: Visnu, from Wat Ta Nen site, Tha Sala district, Nakhon Si Thammarat province, Thailand, ca early to mid-6th cent. CE, grayish white sandstone (?), H. 49 cm., currently at Wat Sai Kham, Tha Sala district, Nakhon Si Thammarat province, Thailand [Photograph courtesy of Wannasarn Noonsuk].

**Right Figure 6:** Back of Visnu, from Wat Ta Nen site, Tha Sala district, Nakhon Si Thammarat province, Thailand [Photograph courtesy of Wannasarn Noonsuk]. Left Figure 7: Vișnu, found at Ho Phra Narai, Mueang Nakhon Si Thammarat district, Nakhon Si Thammarat province, Thailand, ca early to mid-6th cent. CE, sandstone (?), H. 78 cm., Nakhon Si Thammarat National Museum, inv. no. 16/2515 [Photograph by Paul Lavy].

**Right Figure 8:** Back of Visnu, found at Ho Phra Narai, Mueang Nakhon Si Thammarat district, Nakhon Si Thammarat province, Thailand [Photograph by Paul Lavy].



by the late twelfth or early thirteenth century relief sculptures from the Bayon that depict standing four-armed Visnu statues in worship and holding the same four attributes in the same configuration (e.g. Jessup & Zéphir 1997: 137, fig. 4).

# Conch-on-hip Images from Peninsular Thailand

First published in 1928 and housed today in the Bangkok National Museum, the "Chaiya Viṣṇu" **[Figures 1-2]** was discovered at Wat Sala Thueng in the Chaiya district of Surat Thani province (Cœdès 1928: 25, pl. X, centre). Prior to O'Connor's studies, scholars tended to characterise it and other comparable images, as rustic, mediocre, degraded, aberrant, and archaistic works of relatively late date, i.e., the seventh-eighth centuries CE (Boisselier 1959b).<sup>8</sup> This date was refuted by O'Connor (1972: 39), who used Indian evidence to advocate a date "at least three centuries" earlier for the Chaiya image.

O'Connor (1972: 25-26) also drew attention to two four-armed Viṣṇu sculptures, also from peninsular Thailand, that are closely related to the Chaiya image in both iconography and style. Although noted in earlier scholarship, neither of these images had previously been the subject of serious discussion.<sup>9</sup> Both were discovered south of Chaiya in what is today Nakhon Si Thammarat province. One of them, displayed today at the Wat Phra Mahathat Museum in Nakhon Si Thammarat, was found at Wat Phra Phreng in Na San sub-district, Phra Phrom district **[Figures 3-4]**.<sup>10</sup> The other was found at Ho Phra Narai ("Narayana, or Viṣṇu, Shrine") in the municipal (Mueang) district and is now housed in the Nakhon Si Thammarat National Museum **[Figures 7-8]**. A third conch-on-hip Viṣṇu sculpture from Nakhon Si Thammarat province was recently discovered at the site of Wat Ta Nen in Pho Thong sub-

district, Tha Sala district, and is currently held nearby at Wat Sai Kham in Don Tako sub-district (Wannasarn 2013: 76) **[Figures 5-6]**.

These four conch-on-hip images **[Figures 1-8]** share numerous stylistic features that, occurring altogether, unite them as a group and indicate an early date in the development of Southeast Asian stone sculpture.<sup>11</sup> These include what O'Connor (1972: 25-26) characterised as a "flat, two-dimensional presentation" and a "harsh angular rhythm of the contours." They all exhibit a strict frontality, nude torso, and similar calf-length garment with a long vertical fold between the legs. All four have a system of two sashes with one wrapped around the waist and the other falling in an arc across both thighs. Except for the less well-preserved Wat Ta Nen image, the tension of the fabric, wrapped tightly around the waist, is indicated by a series of narrow parallel folds or creases along the legs. The head of the Wat Ta Nen image has not been found, but the other three sculptures have somewhat similar high narrow mitres and long, heavy earrings that fall from the earlobes to the shoulders.

Below left Figure 9: Vāsudeva-Kīṣṇa, Mathurā, Mathurā district, Uttar Pradesh, India, Kuṣāṇa period, ca 2nd-3rd cent. CE, red sandstone, H. 33 cm., Mathurā Museum, inv. no. MM 34.2487 [Photograph courtesy of the American Institute of Indian Studies, acc. no. 54513, negative no. 365.65].

# The Vāsudeva-Krsna from Chaiya

In order to "resolve" the chronological problems posed by the conch on-hip images from peninsular Thailand, O'Connor (1972: 32-40) turned to the art historical evidence from India and attempted to locate Indian prototypes for the Southeast Asian images. He traced their lineage ultimately to several Kuṣāṇa-period sculptures from Mathurā that share similar iconographic features with the Chaiya image, including the anterior proper right hand raised with the palm outward Below right Figure 10: Vāsudeva-Kṛṣṇa, found in a well at Baghichal Birhal, Īsapur, Mathurā district, Uttar Pradesh, India, Kuṣāna period, ca 2nd-3rd cent. CE, red sandstone, H. 22 cm., Mathurā Museum, inv. no. MM 15.956 [Photograph courtesy of the American Institute of Indian Studies, acc. no. 469, negative no. 20.26].





in either the gesture of *abhayamudrā* or *vyāvṛttamudrā*, the mace held in the posterior right hand, and the conch held against the hip by the anterior left hand (O'Connor 1972: 33-34; Schmid 2010: 205-235, 534-549, figs 24-38) [Figures 9-10]. Like these Kuṣāṇa examples, the Chaiya image [Figure 1] would in all likelihood have held a *cakra* in its now lost posterior left hand.

More recent scholarship has convincingly demonstrated that this iconography belongs specifically to an early form of Visnu known as Vāsudeva-Krsna, one of the five Vrsni Vīras (heroes) who were apotheosised probably no later than the early second century BCE. They became the focus of an ancestor cult that was centred at-, and disseminated from-, Mathura during late centuries BCE and early centuries CE, particularly during the Kusāna period (Härtel 1987: 573-587; Srinivasan 1997: 211-220, 240-259; Schmid 2010: 121-171). By the late second or early first century BCE, Vasudeva-Krsna seems to have emerged as the most important of the deified Vrsni heroes and the dominant deity of Bhagavatism while the importance of the others gradually diminished (Jaiswal 1981: 62-92). These developments were associated with the crystallisation of Vaisnavism, which chiefly occurred at Mathurā during the Kusāna period through the merging of previously distinct traditions oriented around (1) the Visnu of the Vedas, (2) Nārāvana of the Brāhmanas and Āranvakas, and (3) Bhāgavata Vāsudeva (Srinivasan 1997: 257-258; Schmid 2010: 363-385). The Visnu of the Vedas was a relatively minor divinity, and the god named Visnu does not appear in Indian epigraphy until the Gupta period (Härtel 1987: 586). The Hindu deity properly called "Visnu" probably first appeared in art during the transitional period from the late Kusāna to the early Gupta period, and thus "so-called Kusāna Visnu" images [Figures 9-10] should be recognised as representations of Vasudeva-Krsna (Härtel 1987: 585-587).

Robert Brown (2000: 2-6), following some of the aforementioned scholars, has argued that the Chaiya image should be identified not as Visnu but rather as Vasudeva-Krsna, and it is this identification that is adopted here. Contra Brown, it has been suggested that the term Visnu "probably supplanted Vāsudeva by the date" of the Chaiya image (Havenon 2006-07: 95-96, n. 19), but it is by no means clear that such a transformation was uniformly complete throughout all of South and Southeast Asia. With variable iconography (i.e., the configuration of the attributes in the four hands), Vāsudeva consistently appears as one of the twenty-four forms of Visnu *caturvinśatimūrti* (or caturvinśatimūrtavah) enumerated in Indian iconographical texts from the Agnipurāna, probably the earliest extant description of these forms, through their systematisation in *circa* the ninth century and onwards (Bidyabinod 1920; Mallmann 1963: 3-6; Krishna 1980: 86-87).<sup>12</sup> In Cambodia, there are several pre-Angkorian inscriptions that refer to a deity, or deities, named Śrī Kapilavāsudeva (K. 151 and K. 563) and Vāsudeva (bhagavate vāsudevāya, K. 134/dated 781 CE) (Cœdès 1942: 92-94, 198 and 1943-1946: 5-7). Dating from circa the mid-seventh to the late eighth century, these inscriptions provide testimony to the continued use of the name Vāsudeva, though it cannot be precisely determined to what divinity or iconography the name referred.

In addition to iconography, O'Connor (1972: 33) also emphasised stylistic similarities between Mathurā sculpture and the Chaiya

Vāsudeva-Krṣṇa, such as the carving of the posterior right hand against the mace, the banded decoration of the mace, and the arrangement of the jewellery. There are, however, significant stylistic differences between them. Most notably, the Mathurā images of Vāsudeva-Kṛṣṇa, whether carved in high-relief or in-the-round, tend to have a more fully modeled and robust figure, they lack the looping sash, and many of them wear a turban. When trapezoidal or cylindrical crowns or mitres do appear in Mathurā art, in what is perhaps a slightly later development, they often have prominent rims around the edges or vertical flanges on both sides and, in the cases where decoration is preserved, lack the foliate pattern of the Chaiya image **[Figure 10]**. Cylindrical mitres without flanges appear *circa* fourth century CE during the transitional period from late-, or post-, Kuṣāṇa to early Gupta **[Figures 12-13]**.

Casting more widely for potential comparisons to the Chaiva image, O'Connor first turned to a Visnu (or Vāsudeva-Krsna) sculpture from Bhinmāl (Rajasthan), then believed to date to circa 400 CE (Shah 1955-56: 52-54) but now accepted by most art historians as a later image [Figure 18]. He noted that the two sculptures not only exhibit comparable iconography, but that they seem to emerge from the same "stylistic current" (O'Connor 1972: 35, fig. 11). His discussion moved next to two sculptures from Andhra Pradesh, both of which he identified as "Visnu" (O'Connor 1972: 37-38): a now headless Vāsudeva-Krsna sculpture from Yeleśwaram [Figure 15] and a relief from Kondamotu [Figure 16] that depicts Nārasimha and the Vrsni Vīras, including Vāsudeva-Krsna. These images were then understood to date to the fourth-fifth and third-fourth centuries respectively (Khan 1963: 14 and 1964: 1-4). The early fourth century, however, may be the latest reasonable date for both (Havenon 2006-07: 88, 97, n. 44). They both have only two arms, but, like the Chaiya image, they hold a conch against the left hip, wear a garment that includes the low-arcing sash, and are adorned with heavy earrings that drape onto the shoulders. Based on these similarities, O'Connor concluded that, although the "ultimate prototypes" for the Chaiva image may be sought in Kusānaperiod Mathura, "the most immediate stylistic influence seems to be from the fourth century art of the Andhradeśa." Thus, he argued, it dates "no later" than 400 CE, and the Visnus of Wat Phra Phreng [Figures 3-4] and Ho Phra Narai [Figures 7-8], which exhibit some stylistic similarities to the Chaiya image but slightly different iconography, should be ascribed to the fifth century (O'Connor 1972: 39).

O'Connor's re-dating of the Chaiya Vāsudeva-Krṣṇa from the eighth to the fourth century won widespread acceptance and remains influential to this day (Piriya 2012: 100-101, fig. 1.96). It is now clear, however, that there are a number of significant problems with his arguments. First, it is unlikely that the "two-armed" Yeleśwaram and Koṇḍamoṭu images would have had a direct, or "immediate," relationship with the "four-armed" Chaiya image (Brown 2000: 4). Furthermore, the *kirīṭamukuţa* (crown or mitre), worn by the Vāsudeva-Krṣṇa in the Koṇḍamoṭu relief does not "match," as O'Connor (1972: 38) vaguely stated, those worn by the three peninsular images, neither in its overall form nor in its decoration. In spite of the problems with comparing relief sculpture to free-standing sculpture (however flat and



Figure 12: Vișnu, Mathurā area, Uttar Pradesh, India, post-Kuṣāna or early Gupta period, ca 4th cent. CE, pink sandstone, H. 79.4 cm., The Avery Brundage Collection, acc. no. B73S17 [Photograph courtesy of the Asian Art Museum, San Francisco].



Figure 13: Vișnu, northern central India, Gupta period, ca late 4th-early 5th cent. CE, sandstone, H. 68.6 cm., Brooklyn Museum, acc. no. 81.203 [Photograph courtesy of the Brooklyn Museum].



Figure 11: Vāsudeva-Krsna, Devangarh, Navādā district, Bihar, India, post-Kusāna or early Gupta period, ca 4th cent. CE, buff sandstone, H. 136 cm., Patna Museum, inv. no. Arch. 11299 [Photograph courtesy of the American Institute of Indian Studies, acc. no. 23959, negative no. 111.13].



Figure 14: Vișnu, Unchdih, Allahabad district, Uttar Pradesh, India, Gupta period, ca early to mid-5th cent. CE, buff sandstone, H. 80 cm., Allahabad Museum, inv. no. AM 857 [Photograph courtesy of the American Institute of Indian Studies, acc. no. 12028, negative no. 12.59]. allied to relief the peninsular images may be), some observations can be made.

The Koṇḍamoṭu Vāsudeva-Kṛṣṇa **[Figure 16]** appears to wear a cylindrical *kirīṭamukuṭa* belonging to a type, presumably in imitation of metal, which first appeared in Vaiṣṇava imagery (i.e., an image from Malhār, Chhattisgarh) as early as the second or first century BCE (Srinivasan 1997: 185, pls 14.1, 15.3). In both South and Southeast Asia somewhat similar mitres are associated with the deities Indra, Sūrya, Viṣṇu, and Harihara. Indra images often, but not invariably, wear such mitres in the Kuṣāṇa-period art of Mathurā and Gandhāra, as well as in relief images at, or from, Sāñcī, Amarāvatī, and Nāgārjunakoṇḍa (Coomaraswamy 1928; Pal 1979: 212-219). These mitres also occur on Kuṣāṇa-period images of Vāsudeva-Kṛṣṇa from Mathurā (e.g. Schmid 2010: figs 27, 29, 34-40; Härtel 1987: pl. Xa) and with regularity on Vaiṣṇava images from the Gupta period onward (e.g. Williams 1982: pls 44, 50, 125, 177, 205, 268).

These early mitres take a variety of shapes – more or less cylindrical, trapezoidal, or somewhat square-shaped – and, although rare examples are smooth and undecorated, they are much more often adorned with a large central crest and/or an all-over cross-hatched pattern (Lavy 2004: 269, n. 56), precisely the decorative approach taken on the Kondamotu mitre where the central crest indicates perhaps a stylised floral motif or a jewel. Like many Kuṣāṇa and Gupta images, there are also two additional motifs above the ears (possibly flowers) and, as occasionally encountered in Mathurā art, a wide band across the forehead that may be intended to indicate a thickly-rolled strap (Pal 1979: 212, figs 4-5, 9). Running along each vertical side of the mitre are long projecting flanges, a feature that is widely attested in pre-Pallava southern Indian art as well as on Viṣṇu mitres of the Kuṣāṇa and Gupta periods (e.g. Coomaraswamy 1928: 41; Pal 1979: figs 8-9).<sup>13</sup>

On the three peninsular sculptures with extant mitres **[Figures 1-4 and 7-8]**, however, the vertical projections are absent and, seen in profile, it is clear that none of the mitres are cylindrical. Rather they are flattened rectangular or trapezoidal forms with slightly convex and tapering contours.<sup>14</sup> On the Chaiya image the tapering is visible only in profile **[Figure 2]**, but on the Viṣṇus of Wat Phra Phreng and Ho Phra Narai, both the front and side planes incline towards the top **[Figures 3-4 and 7-8]**.

Of the three peninsular images, the mitre worn by the Ho Phra Narai Viṣṇu is the most similar to the one depicted in the Koṇḍamoṭu image. In spite of its badly worn condition, a prominent central pattern is evident (either floral or perhaps a "mask of glory" of the lion type; i.e., *simhamukha*) [Figure 7]. This need not, however, indicate a similar date for the Koṇḍamoṭu and Ho Phra Narai images; mitres with a variety of similar central crest motifs persist for centuries in the art of South Asia.<sup>15</sup> In contrast to the Ho Phra Narai and Koṇḍamoṭu images, the entire front face of the Chaiya and Wat Phra Phreng mitres are decorated with foliate sprays. The condition of the Ho Phra Narai sculpture notwithstanding, none of the peninsular mitres are adorned with cross-hatching. In fact, with the exception of these three peninsular images and Viṣṇu no. 1 from Cibuaya (Karawang regency, West Java), there are few other free-standing Southeast Asian Viṣṇu images with decorated mitres, and those rare examples that do occur probably date

to the eighth-ninth centuries or later.<sup>16</sup> Most earlier (i.e. seventh century) Southeast Asian Visnu mitres on free-standing images are smooth and unadorned save for an occasional rim around the lower edge or a convex protuberance on the top (Lavy 2004: 270, n. 59).<sup>17</sup> The lack of decoration distinguishes them from many seventh-eighth century Southeast Asian Sūrya images, such as those from Si Thep (Phetchabun province, Thailand), which are often adorned with one or more floral crests similar in design to the decoration on the Chaiya and Wat Phra Phreng mitres (e.g. Piriva 2012: fig. 1.108). It is, moreover, perhaps only on *circa* eighth century images of Harihara and Sūrya that the mitre is incised with geometric patterns (e.g. quatrefoil rosettes set within squares) reminiscent of early Indian mitres like the Kondamotu example (Lavy 2004: 270, n. 60).

Rather than the Kondamotu Vāsudeva-Krṣṇa, a much better South Asian comparison for the *kirīțamukuțas* worn by the Chaiya and Wat Phra Phreng sculptures is to be found on what is probably a Viṣṇu image **[Figure 17]** originally from the Śiva temple at Bhumara (Madhya Pradesh, India),

a temple that scholars variably date from the mid-fifth century to *circa* 520-530 CE (Chandra 1970: 73-87; Woodward 1973: 211; Williams 1982: 120). In all three cases, there is a remarkably similar low-relief pattern of flattened foliate forms that scroll outward from centrally placed and vertically arranged nodes to cover the entire front face of the mitre.

Indeed, rather than fourth century Andhra Pradesh, scholars subsequent to O'Connor have stressed stylistic relationships with the fifth-sixth century sculpture of northern India. For example, Hiram Woodward (2003: 41), while noting similarities between the earrings of the Chaiya Vāsudeva-Kṛṣṇa and fourth century sculpture from northeastern India, has emphasised the similar treatment of the necklace and belt shared by the Chaiya image and early fifth century Gupta sculpture. Brown (1992: 46-47) observed that both the low looping sash and the long earrings that extend onto the shoulders are attested in the fifth-sixth century sculpture of western and northern India. In addition to re-emphasising relationships between the Chaiya and the Bhinmāl images [Figure 18], Brown (1992: 46, 51, n. 2) also compared the Chaiya Vāsudeva-Kṛṣṇa with a Viṣṇu from Mandsaur (Madhya Pradesh), particularly in terms of the similar way the ears are pushed forward [Figure 19].

To these northern Indian comparisons might also be added a lesserknown conch-on-hip sculpture of Harihara, also from Mandsaur and today in the State Museum, Bhopal **[Figure 20]**. Although the sashes are arranged differently, the Chaiya Vāsudeva-Kṛṣṇa and the Mandsaur Harihara share a similar calf-length garment with a pronounced median fold descending from the groin to the base between the feet. In both cases, incised folds radiate from this median fold to encircle the legs. Another feature shared by Chaiya Vāsudeva-Kṛṣṇa, the Wat Figure 15: Vāsudeva-Kṛṣṇa, Yeleśwaram, East Godavari district, Andhra Pradesh, India, ca 3rd-early 4th cent. CE, grey limestone, H. 61 cm., State Museum, Hyderabad [Photograph by M.A.W. Khan, courtesy of Artibus Asiae, after O'Connor 1972: fig 12]. Phra Phreng Viṣṇu, and both Mandsaur images is the appearance of two short tassels or loops dangling from the belt and extending over the proper left upper thigh.

Today few scholars accept Shah's date of *circa* 400 CE for the Bhinmāl image, a date upon which O'Connor relied. Although the decoration of the Bhinmāl mitre is quite similar to a Kuṣāṇa head of Indra from Mathurā (Pal 1979: fig. 10), the most thorough discussions of the Bhinmāl and Mandsaur images suggest an early sixth century date, perhaps around 500 CE for the prior and 510-520 CE for the latter (Schastok 1985: 37-38; Williams 1982: 142-143). Thus, given the current state of the field, it is most likely that the Chaiya Vāsudeva-Kṛṣṇa dates to the late fifth or early sixth century, with a reasonable estimate of *circa* 500 CE, or, i.e., over a century after O'Connor's argued date.

Michael de Havenon (2006-07: 90), following comments and dates offered by Sara Schastok, has recently attempted to date more precisely the Chaiya image to the "second quarter of the 6th century" by theorising what a supposed northern Indian "model" must have looked like. The date is not an entirely unreasonable *terminus ante quem*. However, the additional comparisons he makes to Indian images do not convincingly support his argument, which rests on three elements: the looping sash, the form of the mitre, and the jewellery (including the long earrings). What is questioned here is not so much the date itself, but rather the reasoning upon which it is based.

Figure 16: Nārasimha and the Vrsņi Vāras including Vāsudeva-Krsņa (second from viewer's left), Kondamotu, Guntur district, Andhra Pradesh, India, ca 3rdearly 4th cent. CE, grey limestone, H. 81 x W. 181 cm., State Museum, Hyderabad [Photograph courtesy of the American Institute of Indian Studies, acc. no. 16505, negative no. 166.70]. First, variations of the looping sash worn in conjunction with a calf-length garment and long median pleat occur earlier in northern Indian art, for example, on a Kuṣāṇa or early Gupta-period Bodhisattva torso from Kumrahar (or Kumhrar, Bihar) and possibly on a *circa* fourth century triad of sculptures from Devangarh (Bihar), including a Vāsudeva-Kṛṣṇa **[Figure 11]** (Asher 1980: 11, 18-19, pls 2, 9).<sup>18</sup> While it may be the case that good comparisons can be made with the looped sash that became common in the sculpture of Gujarat (the Śāmalājī style) and Maharashtra dated by Schastok to *circa* 525-530 CE (1985: 50-51), the narrow, flat, and shallow sashes of the peninsular images are not usefully comparable to the thick, deeply-cut sash on a fragmentary conch-on-hip Viṣṇu torso from Elephanta that Schastok



also, but hesitantly, dates to *circa* 525-530 CE (Havenon 2006-07: 90-91, fig. 10; Schastok 1985: 51-52; fig. 115). Nor is it reasonable to compare the Chaiya image to the Śāmalājī Viśvarūpa (ca 535-540 CE) based on the presence of a looping sash (cf. Havenon 2006-07: 90-91, fig. 9). The overall aesthetic presentation of the crouching, emanatory, eight-armed cosmic form of Viṣṇu is completely opposed to the comparatively simple and static peninsular images.

Second, against the assertion by Havenon (2006-07: 90), there is little discernible relationship between the mitres worn by the Chaiya image and the Śāmalājī Viśvarūpa. The latter is flamboyantly decorated with clearly and strongly delineated flower motifs, looping pearl swags, and a prominent flameshaped and foliate central motif framing a mask. All of this stands in dramatic contrast to the comparatively restrained and flattened vegetal patterns that appear on the Chaiya and Wat Phra

Phreng mitres, which relate so much more straightforwardly to the aforementioned Bhumara image **[Figure 17]**.<sup>19</sup>

Third, Havenon's suggestion (2006-07: 90) that the earrings are "almost the same" as figures on the Parel stele (ca 525-530) from the Mumbai area is unclear (Schastok 1985: figs 112-113). While the earrings similarly fall to the shoulders, they do not appear to take the same tasseled form as those of the Chaiya image. Alternately, some of the Parel earrings, though they are quite indistinct, may be meant to be crouching lions similar to those that appear on a stylistically related circa sixth century Siva sculpture also from Parel (Gorakshkar 1982: 22, figs 1-3, 5-6). More comparable tasseled earrings are to be found on the fourth century Vāsudeva-Krsna [Figure 11] and Balarāma images from Devangarh (Brown 1992: 46-47). In short, all of the supposed mid-sixth century elements emphasised by Havenon occur on earlier Indian images. And in his quest to pinpoint a precise date and northern Indian model for the Chaiva image, Havenon has assumed that Indian art is "more securely dated and identified than it often is" (Brown 1992: 45).

The question of the role of southern Indian influence cannot be entirely dismissed. In addition to the Yeleśwaram and Kondamotu images, the looping sash and shoulder-length, sometimes tasseled, earrings occur together on several second-third century CE sculptures from Andhra Pradesh (Nigam 1980: pl. VI; Prasad 1980: 39-40, pl. 7; Ray 1983: pl. 154; Piriya 2012: 14, fig. 4). These deeply cut figures with their strong hip-sway stance do not otherwise compare well with the flat and static peninsular sculptures. On the other hand, a third-early fourth century CE Skanda-Mahāsena image from Nāgārjunakonda does exhibit strong similarities in its strict frontality and narrow width, as well as its looping sash, prominent median fold that descends to the socle, and its jewelry (long earrings, necklace, bracelets and armbands) (Sarma 1982: 106-107, pl. 71a-b).

It is also worth noting that the peninsular sculptures do not hold the conch in precisely the same manner as most of the northern Indian images. Whereas Kuṣāṇa Vāsudeva-Kṛṣṇas tend to cradle the conch against the hip **[Figures 9-10]**, some northern Indian images from Figure 17: Candraśālā with Vișnu (?), Šiva temple, Bhumara, Satna district, Madhya Pradesh, India, late Gupta period, ca mid-5th cent.-520/30 CE, dark pink sandstone, H. 37.5 x W. 45 x D. 9.5 cm., Allahabad Museum, acc. no. 153 [Photograph courtesy of the American Institute of Indian Studies, acc. no. 11032, negative no. 12.39].



Top Figure 18: Visnu (Vāsudeva-Kṛṣna?), Bhinmāl (Bhillamāla), Jālor district, Rajasthan, India, late Gupta period, ca 500 CE, blue-grey schist, H. 44 cm., Baroda Museum, inv. no. 2.676 [Photograph courtesy of the American Institute of Indian Studies, acc. no. 20203, negative no. 184.29].

#### Top right Figure 19:

Visnu, discovered at base of Mahadeva Temple ghat, Mandsaur, Mandsaur district, Madhya Pradesh, India, late Gupta period, ca 510-520 CE, grey-black schist, H. 29 cm., Mandsaur Circuit House [Photograph courtesy of the American Institute of Indian Studies, acc. no. 15426, negative no. 86.76]. fourth-fifth century CE **[Figures 12-14]** and all of the aforementioned later northern and western Indian images (those from Bhinmāl, Mandsaur, and Elephanta) hold the conch in a very specific fashion with three fingers inserted into the aperture **[Figures 18-20]**. The thumb is placed on the apex of the conch and the little finger projects across the aperture, but is not inserted into it. In contrast, the Vāsudeva-Kṛṣṇa images from Yeleśwaram **[Figure 15]** and Koṇḍamotu **[Figure 16]**, as well as all four peninsular images **[Figures 1-8]**, maintain the position of the thumb but neatly tuck all four fingers into the aperture of the conch. This hand position also occurs, however, on some northern Indian images of the Gupta period **[e.g. Figure 11]**, so this trait does not provide conclusive evidence of Southeast Asian artistic connections with southern India.

Without therefore excluding the possibility of southern Indian influences, the best that can be said is that the Chaiya image most closely reflects northern Indian stylistic and iconographic characteristics that are broadly associated with the fourth-fifth centuries, but that it most closely relates to specific Indian images dated by style, and not by any chronologically fixed points, to the late fifth-early sixth centuries (images from Bhinmāl, Mandsaur, and Bhumara). However, even these images are not unequivocal models for the Chaiya image, and, regardless of which Indian precedents are accepted, it remains quite possible that the Chaiya Vāsudeva-Kṛṣṇa represents a "parallel development" (Quaritch Wales 1976: 45) to these northern Indian examples rather than a direct descendant from them.

# Peninsular Developments after the Chaiya Image

Like the Chaiya Vāsudeva-Krsna, the three Nakhon Si Thammarat Visnus [Figures 3-8] were originally four-armed figures, each today in various states of preservation, however their iconography differs slightly. All four hold the conch in the anterior (or "natural") proper left hand, but only the Chaiya image retains the posterior right arm, which cradles a long mace  $(gad\bar{a})$  in a vertical position parallel to the body [Figure 2]. While both posterior arms of the Wat Phra Phreng Visnu [Figure 4] have broken off and are presumed lost, the Wat Ta Nen Visnu [Figures 5-6] preserves the posterior left arm and hand clutching the *gadā* (in contrast to its right-hand position on the Chaiva image). The presence of the arm and the *gadā* on the Wat Ta Nen Visnu help to confirm what was likely to have been a similar configuration for the Ho Phra Narai Visnu [Figure 7]; on the back of the image, a section of its posterior left arm is visible in relief against the *gadā* [Figure 8]. The opposing posterior proper right hands of the Wat Ta Nen and Ho Phra Narai Visnus, which are now missing, would almost certainly have held a cakra.<sup>20</sup> The posterior hands of the Wat Phra Phreng Visnu [Figure 3] may have had the same arrangement of attributes (gadā in the proper left and *cakra* in the right), but there is also the possibility that the configuration was reversed and followed the one presumed for the Chaiva Vāsudeva-Krsna, namely with the *gadā* placed in the proper right and the *cakra* in the left.<sup>21</sup>

The anterior ("natural") and lowered proper right hand of all three Nakhon Si Thammarat Vișnus is damaged and the attribute missing **[Figures 3, 5, 7]**. Whereas the anterior right hand of the Chaiya Vāsudeva-Krṣṇa is raised to the level of the shoulder in the gesture of *abhayamudrā* or *vyāvṛttamudrā*, the Wat Phra Phreng Viṣṇu clearly holds this hand at waist level with the palm up in the manner common to most of the mitred Viṣṇus of Southeast Asia. The broken remnants of the anterior hands on the proper right hips of the other two Nakhon Si Thammarat Viṣṇu images indicate a similar position. In all likelihood, all three images would have originally held a small spherical object.

The origin, identity, and development of the spherical object often held in Visnu's anterior right hand is one of the most poorly understood aspects of Vaisnava iconography. By approximately the fourth century, northern Indian Vaisnava images began to hold a round object or a disk that is often identified as some variety of fruit, perhaps a citron (Citrus medica or bijapūraka), citraphala ("bright" or "spotted fruit"), or wood-apple (Aegle marmelos, bael fruit, or bilva, also known as śrīphala or "blessed fruit") (Chandra 1970: 72, cat. no. 120; Gail 2009: 83-84). Similar round, or approximately spherical, attributes occur through the Gupta period and into the seventh century. Some scholars have identified them as lotuses, lotus seeds, or lotus buds (padma or kamala) (e.g. Gail 2009: 83-84). It has been suggested that the lotus first appears in Visnu's hand during the fourth century CE but this is unproven (Krishna 1980: 65-66; Härtel 1987: 586).<sup>22</sup> Indeed, the lotus does not seem to become an attribute of Visnu until the sixth or seventh century (G. Bhattacharva 2007: 99-104; Gail 2009: 83-89).<sup>23</sup>

In Southeast Asia, there are few free-standing stone Visnu images that may plausibly and definitively be argued to hold a lotus.<sup>24</sup> Visnu no. 1 from Cibuaya, West Java (Boisselier 1959b: 210), and the conch-onhip Visnu from Oc Eo (Malleret 1959: 393-395) are perhaps candidates, but in neither case is this identification very convincing (Lavy 2004: 256, n. 19, 276-277). In virtually all other instances where this attribute survives intact – whether on Visnus from peninsular Thailand, Cambodia, or southern Vietnam – it is a smooth-surfaced orb, sometimes slightly flattened, most likely representing the earth. That this is the case for Khmer art is made clear by a number of inscriptions, dating from the seventh through the eleventh centuries, that list Visnu's attributes as the discus (*cakra*), the conch (*śankha*), the mace (*gadā*), and the earth (*bhā*, *mahī*, *pṛthivī*, or *dhāranī*) (Dupont 1955: 143-146; K. Bhattacharya 1961: 103-105; Gail 2009: 84; Soutif 2009: 22-23).<sup>25</sup>

Without distinguishing between the Visnus of Wat Phra Phreng [Figures 3-4] and Ho Phra Narai [Figures 7-8], O'Connor (1972: 39) dated both of them later than the Chaiya image on the basis of iconographic differences (i.e., the lowering of the anterior proper right hand to hold what O'Connor supposed was a padma, or lotus, but which was more likely a sphere). He did not, however, suggest a developmental sequence for the Wat Phra Phreng and Ho Phra Narai Visnus relative to one another. Similarly, other publications either do not distinguish between the dates of the two Visnus or imply tacitly - through the arrangement of plates - that the Ho Phra Narai Visnu is the earlier of the two (Piriya 1980: 20, 82-85; Jacq-Hergoualc'h 2002: 118-119). The reverse is, however, a more likely sequence. Given how little is known about the precise chronology of Vaisnava iconographic developments, as well as the uncertainties that surround the chronological relationships between the art of South and Southeast Asia, Forrest McGill (1975: 143) has guite rightly observed that "[...] developments in iconography are not by themselves sufficient" to determine the sequence of these images. Fortunately, stylistic features offer some clues to indicate that the sequence of development was from the Chaiya image [Figures 1-2] to the Wat Phra Phreng Visnu [Figures 3-4] and finally to the Wat Ta Nen [Figures 5-6] and Ho Phra Narai Visnus [Figures 7-8].

Of these four peninsular sculptures, the Chaiya image is the most closely related to Indian art and is therefore likely the earliest of the four. It is also the thinnest, flattest, and the back is much more minimally carved with just a hint of modeling along the spine and none of the delineation of the waist and thighs that is apparent, however rudimentarily, on the three Nakhon Si Thammarat Visnus. The Chaiya and Wat Phra Phreng images do, however, share some notable features between them. They are virtually identical in height (67 and 65 cm. respectively), they exhibit remarkably similar narrow pursed lips in contrast to the thick lips and fuller cheeks of the Ho Phra Narai Visnu, and their more pronounced male genitalia (in contrast to the Wat Ta Nen and Ho Phra Narai images) align them more closely with a Kusāna and Gupta aesthetic [Figures 9-14]. In addition, the manner in which the ears of the Chaiya image are pushed forward occurs to a lesser degree on the Wat Phra Phreng Visnu and not at all on the Ho Phra Narai Visnu. Finally, the foliate, or leaf-and-vine, decoration of the mitres is similar and quite distinct from the central crest adornment of the Ho Phra Narai mitre.

At 78 cm. in height, the Ho Phra Narai Viṣṇu is the largest of these four peninsular sculptures. It relates differently to each of the others. With the Chaiya and Wat Ta Nen images, it shares the armband, bracelet, and necklace (perhaps similarly decorated with a central rosette), all of which are lacking on the Wat Phra Phreng Viṣṇu. Like the latter, however, the Ho Phra Narai Viṣṇu is adorned with heavy globular earrings that distend and offset the earlobes to a greater degree than the tasseled earrings of the Chaiya image. Compared to the straight-sided mitre of the Chaiya Vāsudeva-Kṛṣṇa, moreover, the mitres of the Wat Phra Phreng and Ho Phra Narai Viṣṇu taper slightly towards the top and thus, together, exhibit a trait that is relatively rare in Southeast Asian art.<sup>26</sup>

The differences between the Chaiya and Wat Phra Phreng images, on the one hand, and the Ho Phra Narai and Wat Ta Nen Viṣṇus, on the other, set the two pairs of images somewhat apart. Remarkably similar in style to one another, the Ho Phra Narai and Wat Ta Nen Viṣṇus are considerably more solid and robust with wider hips and thighs. They also have somewhat more defined and muscular torsos that are emphasised by the inclusion of a sacred thread (*upavīta* or *yajňopavīta*) worn over the proper left shoulder and continuing down the back **[Figures 5-8]**.

There are two distinguishing features of the Ho Phra Narai Vișnu that may suggest a slightly later date, but neither is conclusive. First, the fluted halo may be comparable to a type that first appeared in India in the fifth century **[e.g. Figure 14]** but that was not common until the sixth-seventh centuries (Brown 2000: 8; Harle 1987: 345). With such a wide range of dates, however, the motif is obviously of limited utility for any attempt at precise dating.

Second, the notion of a relatively steady transition from relief to "ronde bosse" or sculpture-in-the-round remains one of the basic principles employed to understand the development of Southeast Asian stone sculpture (Lavy 2004: 206-250), and may correspond to the development of greater technical skill and thus a later date. Unlike the Chaiva and Wat Phra Phreng images, the vertical median fold of the Ho Phra Narai garment does not appear to have joined the socle. Furthermore, whereas the legs and garment of the Chaiya and Wat Phra Phreng images remain joined by reserves of stone and are essentially carved in relief, the lower legs of the Ho Phra Narai Visnu are cut free from one another and the surrounding stone matrix. With what was probably an engaged median fold, similar to the Chaiya and Wat Phra Phreng images, but now combined with fully cut lower legs more in the manner of the Ho Phra Narai Visnu, the recently discovered Wat Ta Nen Visnu may represent a transition to the technique seen in the latter and an intermediary stage towards the liberation of the lower legs from structural support. While this hypothetical progression seems to be justified by the evidence, however, too much emphasis on technique can be problematic insofar as, among other things, it presumes rather than proves such an evolution and it neglects the possibility that technical decisions may also be motivated by ritual imperative, artistic intention, and aesthetic choice.

Related to the way the legs of the Ho Phra Narai Viṣṇu are carved is the configuration of the drapery, and it is this additional feature that may offer the clearest indication of its slightly later date. Whereas,



Figure 20: Harihara, Mandsaur, Mandsaur district, Madhya Pradesh, India, late Gupta period, ca early 6th century CE, sandstone, H. 102 cm., State Museum, Bhopal, inv. no. E.914 [Photograph courtesy of Donald Stadiner].

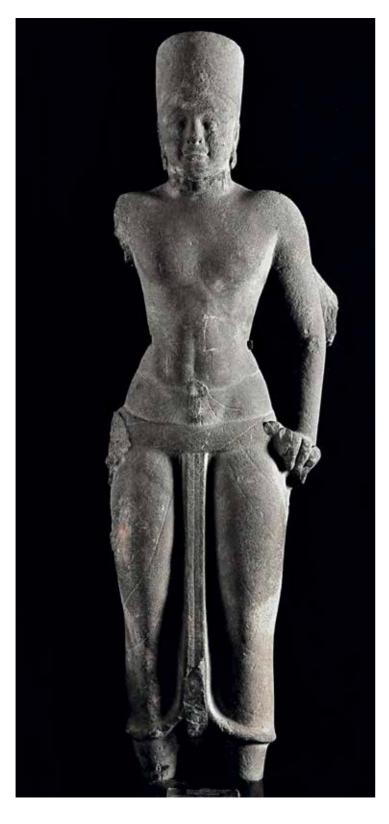


Figure 21: Visnu, found at Wat Bot, Mueang Prachin Buri district, Prachin Buri province, Thailand, ca early 7th cent. CE, sandstone, H. 165 cm., Prachin Buri National Museum [Photograph courtesy of Paisarn Piemmettawat].

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the long median fold of fabric on the Chaiya, Wat Phra Phreng, and Wat Ta Nen images is carved as one unit with the legs and bears little discernible relationship with the lower hem of the garment, on the Ho Phra Narai image, it notably bifurcates into the lower hems of the garment. Although the descending length of cloth appears to simply split into two distinct hems, one over each shin at oblique angles to the vertical axis, this treatment may be intended to indicate the tightening of the fabric around the calves that would be caused if the central panel of cloth was brought between the legs and cinched at the waistband or tucked into the hem at the lower back (albeit a feature not indicated in the rather abbreviated carving on the posterior of the image). Alternately, the median panel may consist of the combined lateral edges of fabric that are tucked into the waistband rather than long extensions of fabric descending from it. In any case, the bifurcating median fold typically occurs on images that, like the Ho Phra Narai Visnu, have the lower legs cut free of one another, including some later Visnus from peninsular sites and Dong Si Mahosot (or Dong Si Maha Phot), in eastern Thailand, which exhibit a similar configuration of the garment (e.g. Piriya 2012: figs 1.99-1.102).<sup>27</sup> In these related examples, the details are, however, more naturalistically handled so that the median panel of cloth articulates with, but is clearly distinct from, the fabric comprising the bunching hems [Figure 21]. Probably occurring on the Ho Phra Narai image for the first time in the sculpture of Southeast Asia, and perhaps South Asia as well, this incipient and rather tentative feature is a notable departure from the Chaiya, Wat Phra Phreng, and Wat Ta Nen images. The cumulative evidence suggests, therefore, that they are somewhat earlier in date and that the Ho Phra Narai Visnu is the latest of the peninsular conch-on-hip images.

# Conclusion

Most scholars would agree that a date of *circa* 500 CE makes the Chaiya Vāsudeva-Kṛṣṇa the earliest known Brahmanical image in Southeast Asia and, consequently, accord it a pivotal role in the art history of the region. Robert Brown (2000: 1) has suggested that it is the only Southeast Asian Vaiṣṇava image that can be closely tied to Indian prototypes and that it may be "the single extant seed from which all other Southeast Asian mitred Viṣṇu images spring." This may be an overstatement, but, with the exception of sculpture likely to have been imported from South Asia, few other early Southeast Asian stone sculptures seem to have such close comparisons in the corpus of Indian art.<sup>28</sup> While Indian art may have continued to exert a limited influence on the production of mitred Viṣṇus in Southeast Asia, the arguments and new observations presented here support the contention that subsequent developments were "largely internal" (Brown 2000: 2).

If, according to Indian evidence, the Chaiya Vāsudeva-Kṛṣṇa may be reasonably placed *circa* 500 CE, the similarities it shares with the Wat Phra Phreng Viṣṇu suggest that the latter must have been made very soon thereafter, i.e., in the very early sixth century. Slightly later is the Wat Ta Nen image, which appears to be transitional between the Wat Phra Phreng and Ho Phra Narai Viṣṇus. In turn, the more developed anatomy and drapery of the Ho Phra Narai Viṣṇu (ca early to mid-sixth century) foreshadow features associated with the very accomplished sculptures of the fully developed mitred Vișnu tradition of the late sixth-early seventh centuries, a localised and largely "internal" Southeast Asian innovation.

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# Endnotes

- See for example, Quaritch Wales (1976: 43-46), Piriya (1980: 80 and 2012: 12-14, 100-101), Dalsheimer & Manguin (1998: 92), Dofflemyer (1999: 34), Jacq-Hergoualc'h (2002: 116), Gosling (2004: 85), and Manguin (2010: 174).
- 2 See Boisselier (1969: 59 and 1975: 71, 225), Pisit & Subhadradis (1978: 107), Woodward (1973: 211 and 2003: 41), Brown (1992: 46-47), and Lavy (2004: 268-272). Jean Boisselier (1959a: 66-67 and 1959b: 224-226) initially dated the Chaiya image to the seventh-eighth centuries, but, following O'Connor, adjusted his dating to the fourth century at the earliest (1975: 71). In the commentaries added by Jean-Michel Beurdeley to Boisselier's text, the date is given as *circa* fifth century (1975: 225).
- 3 This essay revises a portion of my doctoral dissertation's chapter 6, entitled "The Earliest Vaisnava Sculpture of Southeast Asia" (Lavy 2004: 253-275) written under the supervision of Robert L. Brown, Anthony Reid, Susan B. Downey, and Lothar von Falkenhausen. Some of these arguments were presented at Across the South of Asia: A Symposium in Honor of Robert L. Brown, San Diego Museum of Art, 19 January, 2013.
- 4 A date of *circa* 500 CE is reasonable, and is used here for convenience, but it must be recognised that the present state of evidence does not support the attribution of a specific date, or even a narrow range of dates, to the Chaiya image nor to the Nakhon Si Thammarat Visnus.
- 5 The designation "Viṣṇu" subsumes numerous names and it may well be that these various images comprise forms of Viṣṇu that may be more accurately referred to under specific epithets. Given their fragmentary condition and the often incompletely preserved state of the iconography, however, all will be referred to here as "Viṣṇu" except for the Chaiya sculpture and images that share its particular configuration of attributes.
- 6 Some Kuşāṇa images of Vāsudeva-Kṛṣṇa hold what appears to be a long-necked flask or vase instead of a conch. The flask may indicate an earlier date than the conch (Srinivasan 1997:

245-246; Schmid 2010: 221-223). In addition to the examples here, various degrees of separation of the conch from the hip can be seen on the two Viṣṇus at Udayagiri Cave 6 (Madhya Pradesh, India), dated by inscription to 401/2 CE (Schastok 1985: figs 86-87), and on the Viṣṇu from Jhusī (or Jhunsi, Uttar Pradesh, India), *circa* early to midfifth century CE (Chandra 1970: 88, cat. no. 196).

- 7 With a lotus (*padma*), rather than- or synonymous with- the orb, this configuration is identified in the Indian iconographical texts that enumerate the twenty-four forms of Viṣṇu as either Janārdana or Vāsudeva (Bidyabinod 1920: 23-33).
- 8 See also Nilakanta Sastri (1949: 91-92), Dupont (1955: 133-134), and Boisselier (1959a: 66-67). Exceptions to this line of thinking can be found in Rawson (1957: 33-34) and Lamb (1961: 70), the latter suggesting a date of sixth century or earlier for the Chaiya image. Cœdès (1928: 25) considered it to be close to Indian prototypes but did not specify dates or examples. Le May (1964: 80, fig. 48) described it as "pure Indian style" without offering a date. For further commentary, see Lavy (2004: 245-253).
- 9 See Cœdès (1928: caption of pl. X centre), Nilakanta Sastri (1949: 92), Lamb (1961: 70, pl. 114), Boisselier (1959b: 221, fig. 3 and 1969: 65, fig. 23), and Le May (1964: 80).
- 10 The name "Wat Phra Phreng" (FAD 2543: 83; Banchong 2545: 16) is variably given as "Wat Phrapheng" (Jacq-Hergoualc'h 2002: fig. 3), "Wat Phra Phraeng" (Preecha & Wannasarn 2546: 107), "Wat Phra Pleng" (Piriya 1980: 84), "Wat Phra Loeng" (Piriya 2012: 101), or "Wat Phrang" (Wannasarn 2013: 74). Lamb (1961: 70, pl. 114) published a photograph depicting the Wat Phra Phreng Visnu resting awkwardly on a pedestal that consists of the remnants of two lateral supports, two feet, and a broken stump corresponding to the fragmented median fold of a garment. The pedestal almost certainly belonged to a sculpture of Visnu, but its relationship with the Wat Phra Phreng image is unclear. It is the smaller of two such pedestals (widths approximately 28 cm. and

46 cm.) that were found in Na San sub-district (previously Mueang district, now Phra Phrom district). They are now displayed in the museum at Wat Phra Mahathat Woramahawihan (also known as Wat Phra Borommathat) with the Wat Phra Phreng Viṣṇu. Photographs of both pedestals are published in O'Connor (1982: pls 1-2), however it should be noted that both photographs are flipped so that the right and left sides of the pedestals are the reverse of their actual appearance. Lamb's photograph is the correct orientation; see also Jacq-Hergoualc'h (2002: fig. 9).

- 11 To my knowledge, none of the images has undergone petrographic analysis. The Chaiya image is sometimes said to be limestone (e.g. Le May 1964: 80; O'Connor 1972: 20; Boisselier 1975: 71). All four images, however, may be made of sandstone.
- 12 Portions of the *Agnipurāņa*, including those dealing with Vaiṣṇava iconography, may date as early as the sixth century CE. Earlier, in the *Mahābhārata*, these twenty-four forms occur among the names of Viṣṇu, but without description of their iconography.
- 13 For mitres of the Pallava period (seventh-eighth centuries CE), see Lavy (2004: 280-281).
- 14 Similar in its flattened form, but differing in its decoration and shape, is the mitre worn by Vișnu Trivikrama on a *circa* late fourth or early fifth century lintel from Pawaya, Madhya Pradesh, India (Williams 1982; fig. 50).
- 15 For examples from the sixth-eleventh centuries, see Desai (1973: figs 6-30). Also present on the Ho Phra Narai Vișnu mitre are the lateral floral motifs perhaps joined by a thickly rolled strap.
- 16 See Wirjosuparto (1963: 172), Boisselier (1975: pl. 66), and Piriya (2012: figs 2.82, 2.84-2.85).
- 17 Some seventh and eighth century Southeast Asian mitres are polygonal or tiered (e.g. Piriya 1980: color pl. 3). Mitres occurring in scenes on lintels tend to be more ornate than those on free-standing sculpture. The comparative simplicity of the latter may reflect the practice of equipping sacred images

with jewelry and metal adornments that have been lost or separated from the images, thus making them appear less ornate than they were intended to appear in worship.

- 18 It is not clear whether the Devangarh images wear a low looping sash or a garland (*vanamālā*).
- 19 Following Woodward, Havenon refers to the Bhumara image in passing but curiously omits it from the discussion (2006-07: 97, n. 56).
- 20 With a lotus (*padma*), this configuration is identified in Indian iconographical texts either as the Śrīdhara, Dāmōdara, or Hṛṣīkeśa form of Viṣṇu (Bidyabinod 1920: 23-33).
- 21 With a lotus (*padma*), a configuration identified in Indian iconographical texts either as the Trivikrama or Upendra form of Viṣṇu (Bidyabinod: 23-33).
- 22 According to Härtel (1987: 586), the lowering of the anterior right hand and the appearance of the sphere accompanied the transition from Vāsudeva-Kṛṣṇa to Viṣṇu.
- 23 See also Joshi (1989: 131); Srinivasan (1997: 246); Lavy (2004: 255-256).
- 24 Vișnu images holding a lotus do, however, appear on pre-Angkorian lintels (Lavy 2004: 256, n. 19).
- 25 Relevant inscriptions include K. 21, K. 165, K. 262, K. 263, and K. 278.
- 26 For other examples of tapering mitres in Southeast Asia, see Jacq-Hergoualc'h (2002: fig. 4) and O'Connor (1972: fig. 20).
- 27 The development of Vișnu sculpture in peninsular and eastern Thailand after these early conch-onhip images is discussed in Lavy (2004: 302-334).
- 28 A possible early import from South Asia is the small sandstone Buddha image (H. 16.5 cm.) found at Wiang Sa, Surat Thani province, and now in the Bangkok National Museum (Piriya 2012: fig 1.17). Carved in the Sarnath style of northern India, it dates *circa* late fifth-early sixth century and is therefore approximately contemporary with the Chaiya Vāsudeva-Krsna.

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# New Evidence of Early Brahmanical Vestiges in Pattani Province

WANNASARN NOONSUK

# Introduction

For those who have been following the news from Thailand over the past few years, one of the most frequent stories to be heard is the tragedies, including various forms of violence such as killings, shootings, and bombings, inflicted on the southernmost region of Thailand due to the conflict between the Thai state and radical Muslim groups. Although a very complex problem with deep roots in history, one of the causes of this conflict is the religious struggle between the Malay-speaking Muslims and the central government dominated by the Thai-speaking Buddhists, the latter being the majority in Thailand and who sometimes mistreat other minorities (Chaiwat 2554: 14-16).

Attempting to win legitimacy over the region, the radical Muslim groups have created a powerful discourse stating that Pattani and nearby provinces were a pure Muslim land for many centuries,<sup>1</sup> and this led to the recent burning of the Fine Arts Department Office, a storage for ancient artefacts, as well as a *stūpa* at the Yarang archaeological complex, where the archaeological assemblage is predominantly Buddhist, in an attempt to erase the Buddhist past of the region **[Figure 1]**.<sup>2</sup> Exaggerated or fabricated claims regarding the religious affiliations of a region are common in conflict zones around the world and can usually be proven to be untrue.

Pattani faces a similar situation. Although becoming the most powerful Islamic centre in Siam since around the fourteenth century (Perret *et al.* 2004), Pattani, or the area that has become Pattani today, housed a large number of archaeological sites, architecture, and artefacts associated with Buddhism and Brahmanism, and these ruins and finds were older than those of Islam by more than half a millennium. This suggests that various religions and their groups or sub-groups have probably co-existed in the past in Pattani. Learning from the past, a land does not necessarily have to belong to a sole religion, and this short essay attempts to uncover the rich and ancient multi-religious milieu of Pattani, even before the emergence of Siam or Thailand.

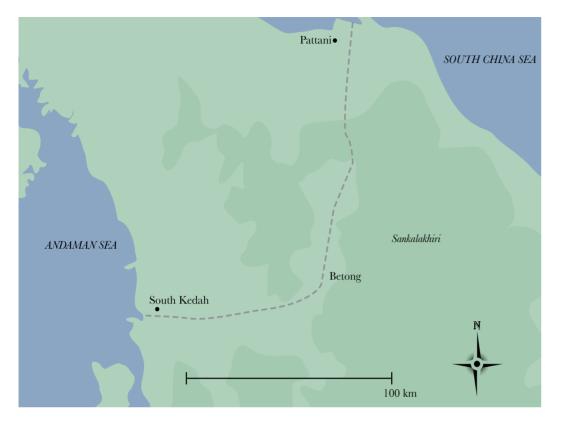
# Background on Archaeological Geography

One of the most prominent geographical features of the southernmost region of Thailand is the Sankalakhiri mountain range, which forms the modern border between Thailand and Malaysia. The range runs roughly in an east-west direction with several branches extending northward, like fingers, creating several valleys in this region, including the Chana, Thepa, Pattani, Saiburi, and Takbai valleys. Each of these valleys has rivers running in north-south directions towards the Gulf of

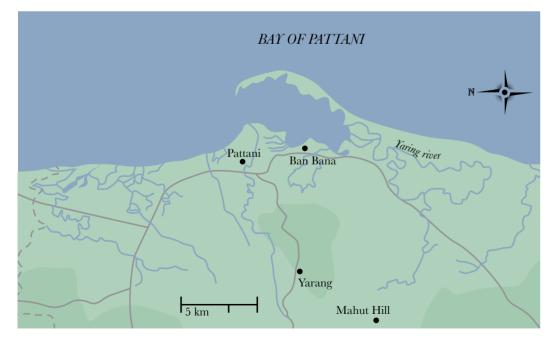


Figure 1: Burnt artefacts from the Yarang archaeological complex, now displayed at the Nakhon Si Thammarat National Museum [Photograph by Wannasarn Noonsuk].

**Opposite Figure 2:** Head of Avalokitesvara, found at Ban Chale, Yarang archaeological complex, Pattani province, 7th-8th century. Currently in the Songkhla National Museum, bronze, 13 cm. high [Photograph courtesy of Paisarn Piemmetlawat].



Map 1: Pattani, South Kedah and possible trans-isthmian route [Drawing by Wannasarn Noonsuk].



Map 2: Ban Bana, Yarang, Mahut Hill and Bay of Pattani [Drawing by Wannasarn Noonsuk].

Thailand (Srisakra *et al.* 2550: 5-7). One of them is the Pattani valley, which has the Pattani river as the main watercourse flowing from Betong district in Yala province. Betong is also a mountain pass that leads to the west coast of peninsular Malaysia.

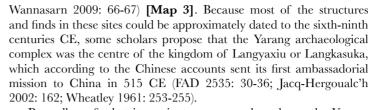
The Sankalakhiri range in the Betong area also feeds a number of rivers flowing to the Andaman Sea on the west coast, such as the Merbok river, running in an east-west direction and which has the famous Bujang cultural complex and other coastal sites, contemporaneous with those of Yarang, at its estuary **[Map 1]**. This geography allowed for transisthmian routes and made the social connectivity and trade between the two coasts of the isthmus possible. People from ancient Pattani and foreign merchants in the South China Sea could walk or navigate the Pattani river upstream, through the mountain pass at Betong and then walk or navigate downstream to coastal Kedah where they reached the Indian Ocean. These may be the southernmost trans-isthmian routes because the area south of the Betong pass was heavily forested and comprised of high mountains, which made it almost impossible to cross (Jacq-Hergoualc'h 2002: Docs 3 and 7). The region referred to as the "isthmus" technically ends here.

The Pattani valley can be divided into three parts, including the upper, middle, and lower valleys. The upper valley is close to the watersheds and people in this area still cultivate orchards, while the middle valley is wider and now the location of a large dam called Bang Lang. Most Neolithic sites (ca 5,000-4,000 years BP) with polished stone tools have been found in the upper and middle valleys (Preecha & Chatchai 2549: 17-19). The lower valley was defined by a broad coastal land with the bay of Pattani at the northernmost end. It is here that the Yarang archaeological complex is located. Only one possible prehistoric site was identified in the lower valley at "Sin cave" or Tham Sinlapa where prehistoric paintings were identified along with early historic mural paintings on the cave walls, which some scholars date back to the Śrīvijaya period (ca the seventh to twelfth centuries CE) (Preecha & Chatchai 2549: 22).

The bay of Pattani, with the spit of land called "Pho" or Laem Pho extending into this body of water, like a barrier protecting the bay in the north, forms a suitable harbour. This spit, however, may have been formed after the sixth to eighth centuries CE when Yarang was at its peak. It has been hypothesised that the ancient shores went quite deep inland, especially at the estuary of the Pattani river, where they almost reached the Yarang archaeological complex (Jacq-Hergoualc'h 2002: Doc. 17). If this is actually the case, then this deep estuary would have also provided protection from the wind and strong currents for ships disembarking near Yarang. In this hypothetical geography, Ban Bana would have been located right on the shore in the sixth century **[Map 2]**.

# The Site of Yarang

The most well-known pre-Islamic site in Pattani and all of southern provinces for that matter, is perhaps Mueang Boran Yarang, or the Yarang archaeological complex (around 600 *rais* or 96 hectares), which comprised of three main moated areas (or so-called *mueangs*), including Ban Wat, Ban Chale and Ban Prawae, from south to north, and a number of sites near these moated areas (FAD 2535: 39 and 2549: 77;



Regardless of what its ancient name may have been, the Yarang archaeological complex provided a wealth of Buddhist structures and objects, such as terracotta stūpas, so-called "votive stūpas," "votive tablets," Buddha and Bodhisattva statues (Jacq-Hergoualc'h 2002: 171-187) [e.g. Figure 2]. Two *lingas* and a Siva bull, however, were also found in this complex. The first *linga* is one of the earliest of its kind in peninsular Thailand [Figure 3]. Being created in a more naturalistic fashion, with its end section (rudrabhāga) being swollen and much larger than the rest of its body, Michel Jacq-Hergoualc'h has suggested an early date to circa the sixth century. It is now kept at the Songkhla National Museum with a record stating that it was found at Ban Prawae in 1962 (FAD 2549: 78). For the second linga, Jacq-Hergoualc'h (2002: 187) argues that it was made in a comparatively more traditional fashion and may be later in date, in which the *rudrabhāga* (the end and round section), the brahmābhāga (the square section) and the visnubhāga (the octagonal section) being made in equal proportion [Figure 4]. It may be dated to circa the beginning of the seventh century. As for the stone statue of the bull, it was discovered in an excavation at site BJ8 or Monument no. 8 at Ban Chale (FAD 2549: 79) [Figure 5]. It was very badly eroded and, therefore, impossible to date at this point (Jacq-Hergoualc'h 2002: 187). Furthermore, there are some stone architectural parts [Figure 6] found in the Yarang archaeological complex, which are now kept at the Princess Galvani Vadhana Institute of Cultural Studies, Prince of Songkhla University, Pattani campus. However, their exact provenances were not recorded when they were moved to the Institute in around the 1970s. The only pieces of stone architectural parts of which the find-spots are known in Yarang are the threshold [Figure 7] and door frame from Monument no. 15 at Ban Wat. The pieces are now displayed in front of Monument no. 3 at Ban Chale (Preecha & Chatchai 2549: 55). These stone architectural parts seem to be uncommon in the Buddhist artistic tradition at Yarang, but quite common in the Brahmanical artistic tradition of peninsular Thailand, such as those in Tāmbralinga, a kingdom that had Brahmanism as its dominant religion in *circa* the fifth to the eleventh centuries, with its heartland in what is today Nakhon Si Thammarat (Wannasarn 2013: 57-157).

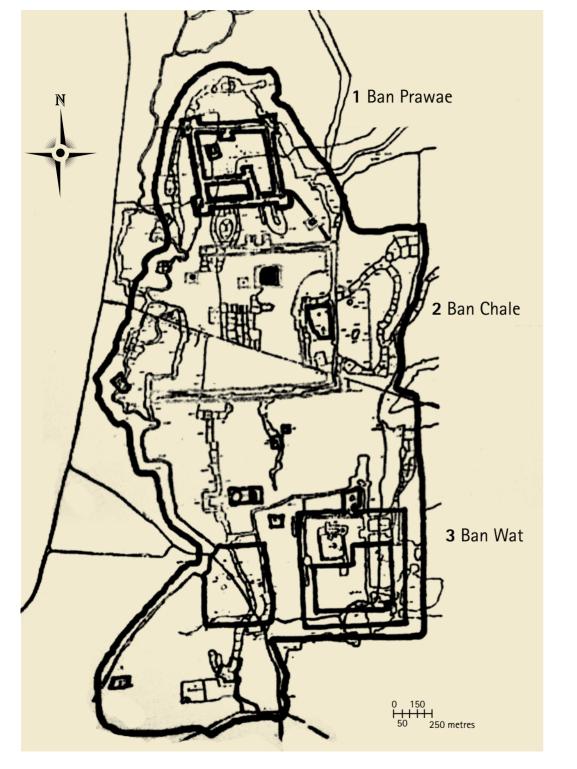
Although Jacq-Hergoualc'h suggested that BJ8 was initially Buddhist and then was possibly reused later for Śaiva worship (2002: 187-188), it is clear that Brahmanism in fact co-existed along with Buddhism in ancient Yarang when we also consider the two *lingas*. The degree of Brahmanical practices, however, seems to be quite thin and does not

> Figure 4: Second linga from the Yarang archaeological complex, now kept at the Cultural Centre of Yala Rajabhat University [Photograph courtesy of the Cultural Centre of Yala Rajabhat University].



Figure 3: A linga (44 cm. in height) from the Yarang archaeological complex, now kept at the Songkhla National Museum [Photograph courtesy of Nicolas Revire].





Map 3: Yarang archaeological complex [Drawing by Wannasarn Noonsuk based on an information sign displayed at the Nakhon Si Thammarat National Museum].

represent firm evidence for well-established Brahmanical communities. The artworks associated with Brahmanism seem to be outside of the mainstream artistic tradition of Yarang. Therefore, Brahmanism would seem to be only an alternative ritual system within a much larger Buddhist context.

Outside of the Yarang archaeological complex, there have been few reports on other archaeological sites, and this has created a large gap in our knowledge about ancient Pattani. The remaining part of the essay will therefore be devoted to two important sites, so far largely underexplored, that yield additional evidence related to the early Brahmanical tradition in the region.<sup>3</sup>

# The Site of Ban Bana

Around 10 kilometres north of Yarang, at the site of Ban Bana, the story is quite different from that of Yarang. At this site, the archaeological evidence for Buddhism is absent to date but that of Brahmanism is manifest in the forms of an ablution basin, a possible *linga*, brick shrines, and various architectural parts.

Ban Bana, roughly translated from Malay as "the village of the harbour,"<sup>4</sup> is located on a short ancient beach ridge running in an eastwest direction, parallel to the modern shoreline and the spit of Pho. It was probably created by the coastal wave-dominated deposits during the Holocene Maximum Transgression of the sea water in the years 6,000-8,000 BP or not long after the sea had regressed (Apichart 2005: 19-23; see also Trongjai, this volume). The maximum transgression and the regression of the sea had also created a number of ancient beach ridges in peninsular Thailand, on which ancient communities were located, such as the cities of Nakhon Si Thammarat and Chaiya to the north of Pattani (Wannasarn 2013: 63). Like other large communities on the east coast of peninsular Thailand, Ban Bana is located on an ancient beach ridge because it would not have been easily flooded in the rainy season and it would be accessible to and from the sea, which was important for any fishing and trading community.

Figure 5: The bull (54 cm. in height and 66 cm. in length) from the Yarang archaeological complex, now kept at the Songkhla National Museum [Photograph courtesy of Nicolas Revire].



Ban Bana is practically surrounded by water. The ancient beach ridge of Ban Bana is situated between the deltas of the Pattani and Yaring rivers, which are around 4 kilometres to the west and east of Ban Bana, respectively. Today, the area between Ban Bana and the current shoreline to the north (around 200-metre distance) is covered with very fertile mangrove forests. On the southern side, the Naring and Maning rivers run parallel to the beach ridge and connect Ban Bana to the Pattani and Yaring rivers, with which people could navigate upstream for rice and forest resources for their consumption and trade with foreign merchants.

According to my survey in Ban Bana with my late father, Preecha Noonsuk, in June 2002, two brick foundations have been identified at the site, including the western and eastern structures. The western structure is located in Mu 3, Bana sub-district, at the location of a modern Islamic mosque next to the cemetery. At the northeast corner of the mosque, a brick well of 140 cm. diameter is situated. At the southeast corner, there is a depression on the ground, probably a remnant of an ancient man-made pond associated with the shrine. Around the mosque, a number of bricks and artefacts, such as stone sculptures, architectural parts, a grinding stone, pottery sherds, Chinese ceramics, and an ivory bead, were found. Some of them are discussed below.

A large ablution basin (*snānadroņī*) was discovered [**Figures 8a-c**]. It is square and quite flat: 247 cm. in length, 114 cm. in width, and 10 cm. in height. It is made of granite and the edges were elaborately carved to suggest the rims were equally 21 cm. on all sides. At one end, there is a channel, most likely for liquid, and this reminds us of a *somasūtra*, characteristic to Brahmanical tradition. Granite is also a common raw material for *yonī* and architectural parts in ancient Brahmanical communities in southern India (Huntington 1999: 303) and in Tāmbralinga (Wannasarn 2013: 57-157).

Preecha and Chatchai believed that this piece is a yonī (2549: 63-65), and, if it actually is, then this piece would be the largest *yonī* so far discovered in ancient peninsular Thailand. There is no hole, however, to insert a *linga* or a statue at the middle of this granite slab, which would be very peculiar for a *vonī*. Perhaps, it is only an ablution basin on which a statue was put without fixing it within. There is also a slight possibility that this piece is a slab for washing clothes but it is highly improbable because the piece seems too elaborate to be created for mundane uses. I know of two more examples of ablution basins from Nakhon Si Thammarat province with no hole in the middle. The first one was made of limestone from Monument no. 4 at Khao Kha in Sichon district. It has a round body (77 cm. in diameter) and a similar prolongated channel for sacred water [Figure 9]. It is said to be the most naturalistic ablution basin in peninsular Thailand (Nongkhran 2544: 183); however, the shape of this round ablution basin is very different from our specimen at Ban Bana. The second piece is a sandstone slab from Wat Phetcharik in the city of Nakhon Si Thammarat. It is square (93 x 93 cm.), and quite flat (16 cm. in height) and its channel for sacred water is broken. It seems to have also been reused as stone for sharpening tools and grinding herbs, as suggested by the features on its body and edges [Figure 10]. All these ablution basins without a hole are exceptional in peninsular Thailand. They seem to have been used in a religious context, seemingly associated with Brahmanism as it will become clear from what follows.

A possible *linga* was also discovered near the western structure of Ban Bana [Figure 11]. It was made of sandstone but broken in half and quite weather-beaten; therefore, it is difficult to see the original features. The piece, however, is dome-like (40 cm. in height) with a carving of a straight line running from top to bottom, similar to the *rudrabhāga* of a *linga*. There are also some smooth blocks of sandstone, the raw material usually used for sculptures, which appeared to be intentionally carved. Perhaps, they were broken parts of sculptures or architectural parts.



Figure 6: Threshold from the Yarang archaeological complex [Pholograph courtesy of Jidaporn Sangnil, the Princess Galyani Vadhana Institute of Cultural Studies].

Figure 7: Threshold from Monument no. 15 at Ban Wat, now displayed in front of Monument no. 3 at Ban Chale in the Yarang archaeological complex [Photograph courtesy of Pornthip Puntukowit, the 13th Regional Office of Fine Arts Department].





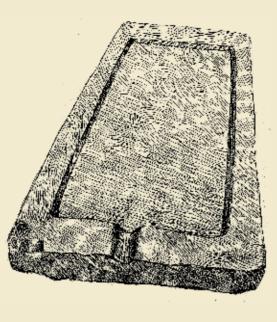
Figures 8 a-c: Ablution basin (snānadroņī) from the western shrine al Ban Bana, (a) picture showing the whole piece, (b) the somasūtra, and (c) drawing [Photographs by Preecha Noonsuk and drawing by Wannasiree Noonsuk].

**Opposite Figure 9:** Ablution basin from Khao Kha, Sichon district, Nakhon Si Thammarat province [Photograph by Wannasarn Noonsuk].

**Opposite Figure 10:** Ablution basin from Wat Phetcharik, Mueang district, Nakhon Si Thammarat, now kept at the Nakhon Si Thammarat National Museum [Photograph by Wannasarn Noonsuk].

**Opposite Figure 11:** Fragments of a possible linga from the western shrine at Ban Bana [Photograph by Preecha Noonsuk].

**Opposite Figure 12:** A fragment of door frame from the western shrine at Ban Bana [Photograph by Preecha Noonsuk].



There are also a variety of stone architectural parts, such as foundation rocks, pillar bases, and door frames. One broken door frame is particularly interesting [Figure 12]. It was made of granite and had a tenon at one end to fit into a mortise of a threshold or lintel. These architectural parts suggest the construction techniques characteristic to Brahmanical shrines, especially in Tāmbralinga, where these types of architectural parts were abundant (Wannasarn 2013: 103-109). It may be assumed that the western structure was in fact a Brahmanical shrine and was made with similar construction techniques used in Tāmbralinga, in which the body of the shrine may have been made of bricks but the superstructure was made of wood and thatch, and stone parts were used as pillar bases, door frames, thresholds, and lintels. Granite was normally used in Tāmbralinga from the eighth century onwards, this being partly confirmed by the Thermoluminescence date of circa 800 CE from a brick sample excavated at Wat Thao Khot where some granite architectural parts were found nearby (Wannasarn 2013: 138). It may therefore be possible to assume that the western shrine at Ban Bana [Figure 13] was erected in some time during approximately the eighth to eleventh centuries. It is important to note, however, that these stone architectural parts have not been found in Buddhist architecture in this region, except when they were reused for other

purposes which were not their original functions. Therefore, it may be assumed at present that these features were mainly characteristic of a Brahmanical architectural tradition in the region. The eastern structure is located at the centre of the modern-day

community of Ban Bana in Mu 2, Bana sub-district. This structure was largely destroyed by the construction of a new road. Fortunately, there are still some bricks and artefacts, such as architectural parts **[Figure 14]**, pottery sherds, Chinese ceramics, and grinding stones. The

bricks are of similar size (around  $32 \times 17 \times 6$  cm.) with those of the western structure. A broken sandstone door frame with a tenon was found, and this suggests the same Brahmanical tradition of construction and a contemporaneous date (ca the eighth to eleventh centuries).

Chinese ceramics were found throughout the site of Ban Bana. The 113 pieces that we collected can be dated to the Yuan (1271-1368), Ming (1368-1644), and Qing (1644-1911) dynasties. This suggests that Ban Bana probably became a trading station of Chinese ceramics from the thirteenth to twentieth centuries as well. The earthenware ceramics have not yet been studied in detail, but some of them could be identified as *kendis* since they had spouts, similar to those discovered in Songkhla, Nakhon Si Thammarat, and Surat Thani provinces.

# The Site of "Mahut Hill" or Khuan Mahut

From the evidence presented above, it can be seen that Buddhism and Brahmanism most likely co-existed in pre-Islamic Pattani. Yarang may have been the epicentre, dominated by Buddhism in this area, but there were probably also some smaller Brahmanical communities, like Ban Bana, outside the Yarang complex. In fact, as I and my father surveyed the region in 2002 (Preecha & Chatchai 2549: 61-63), we discovered that Ban Bana is not the sole site of its kind. There is another site complex known as "Mahut hill" or Khuan Mahut where Buddhist finds were absent while Brahmanical ones were numerous.

Mahut hill is located around 6 kilometres to the southeast of the site of Ban Wat in the Yarang archaeological complex. It is also around 6 kilometres to the east of the Pattani river. The hill is around 77 metres above sea level, almost the same height as Khao Kha, the most important Saiva site in Tāmbralinga. It is a small hill surrounded by plains and would have been like an island in the rainy season. Perhaps, it was this sacred geography that made people believe that Mahut hill was the sacred mountain in the Brahmanical conception, and this led to the construction of a series of brick shrines on its top. The hilltop was made into a large platform surrounded by stone retaining walls. On top of this platform, two brick shrines were built, between which lay a man-made pond (5 x 10 m.), the first measuring 5 x 10 m., the second 15 x 20 m. Another man-made pond was found around 10 metres to the south of the second shrine. There were architectural parts, such as door frames, thresholds, and lintels, similar to those found in Ban Bana and Tāmbralinga. According to the villagers, there were "yonis" found in this site, but most of them were badly damaged. The most complete one was moved to Niwet Phupha Buddhist monastery (Wat Trang). It was almost square (85 x 88 x 7 cm.) and made of granite. At the middle of the piece, there was a square hole, into which a *linga* could have been inserted [Figure 15].



Figure 9



Figure 10



Figure 11



Figure 12

# Conclusion

In summary, it may be assumed that the aforementioned ancient Brahmanical communities spread along the east coast of peninsular Thailand with maritime trade. The evidence from Ban Bana and Mahut hill especially suggests that there was a close social connection with Tāmbralinga. Their shared Brahmanical tradition was distinctively similar and may be traced back to southern India where stone architectural parts, especially those of granite, were widely used. These communities continued to play a role in maritime trade at least until the twentieth century, although their religious orientation may have at times changed to Islam.

From the foregoing pages, it also appears clear that much more archaeological research is needed. Some fine-grained questions are still left unanswered. Future research should seek to find more connections between Pattani and southern Kedah, which were woven together with trans-isthmian trade. New excavations in Pattani province would also prove useful in uncovering the multi-cultural and multi-religious past and hopefully help mend the bond between people in this conflict zone.

# Acknowledgements

I wish to record my intellectual debt to my father, Preecha Noonsuk, and express my gratitude to Wannasiree Noonsuk, Pornthip Puntukowit, Jidaporn Sangnil, the Fine Arts Department, the Princess Galvani Vadhana Institute of Cultural Studies, and the Cultural Centre at Yala Rajabhat University for providing valuable information and illustrations for this essay. I am also grateful to Nicolas Revire, Stephen Murphy, Cy Calugay, and the reviewer for their comments and insights, and to the Ananda Mahidol Foundation and Walailak University for supporting my broader research entitled, "the Cultural Landscape of Tāmbralinga," of which this modest contribution is partly a result.



Figure 13: The mosque where the western shrine is located Photograph

by Preecha Noonsuk].

Figure 14: A fragment of possible architectural part, perhaps a moonstone, from the eastern shrine at Ban Bana [Photograph by Preecha Noonsuk].



Figure 15: A yoni from the Mahut hill [Photograph courtesy of Pornthip Puntukowit, the 13th Regional Office of Fine Arts Debartment].

# Endnotes

- 1 For instance, this claim was reflected in the statement by a head of Muslim group, called PULO, as appeared in an online newspaper. See: http://www.manager.co.th/Politics/ViewNews. aspx?NewsID=9560000023609 (retrieved on 20 July 2013).
- 2 The burning occurred in 2004 and on 18 February 2007, which destroyed the whole office and valuable archaeological documents. Some of the burnt artefacts, such as terracotta "votive stūpas," are now on display at the Nakhon Si Thammarat National Museum. Personal communication with Ms Pornthip Puntukowit, former Head of the Archaeological Unit at the Yarang Archaeological Complex. See also: http://www.muangboranjournal.com/modules. php?name=News&file=article&sid=1291 (retrieved on 20 July 2013).
- Preecha and Chatchai (2549: 54-60) wrote in their 3 report that some stone sculptures and architectural

parts were found in several sites outside the Yarang archaeological complex as well, including (1) Ban Paka-arang in Pattani mueang district, where several stone architectural parts, such as door frames, were found, (2) Ban Bayomaosumeng in Yarang district, where fragments of three ablution basins, possibly vonis, and some stone architectural parts were found, (3) Ban Bana, and (4) the Mahut hill, which are discussed in detail in this essay. I did not have a chance to join Preecha Noonsuk in his survey in Ban Paka-arang and Ban Bayomosumeng and could not find photographs of his findings at these sites in his collection, therefore I intentionally left out here these two sites from this study.

The word *ban* is Thai and could mean "village," while *bana* in Malay seems to be derived from bandar, which means "harbour" (Perret et al. 2004: 86-87).

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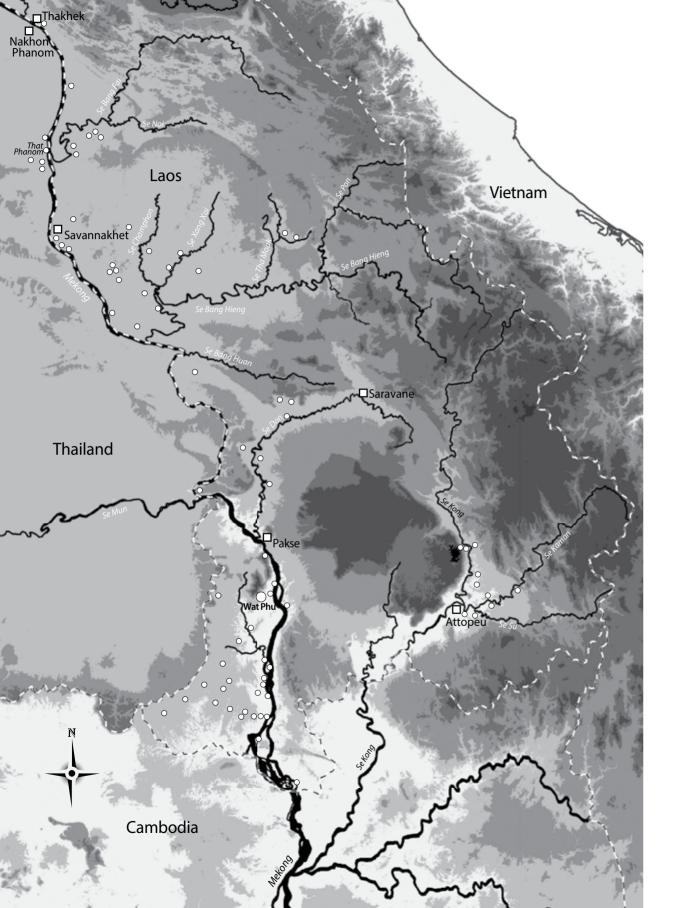
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# Pre-Angkorian Communities in the Middle Mekong Valley (Laos and Adjacent Areas)

MICHEL LORRILLARD

# Introduction

The earliest forms of "Indianisation" in Laos have not been the **L** subject of much research to date. Henri Parmentier (1927: 231, 233-235), when introducing some two hundred sites related to "Khmer primitive art" - soon reclassified as "pre-Angkorian art" as being prior to the ninth century - took into account only five such sites located upstream of the Khone falls. Three of them are located in the Champassak region [Map 3], viz. "Bàn Huèi Thàmô" (i.e. Huei Tomo), "Vat Phu" (hereafter, Wat Phu) and "Čǎn Nakhon" (i.e. Phu Lakkhon); the other two being in Savannakhet province [Map 6], viz. "That Phon" (i.e. That Phon) and "That In Ran" (i.e. That In Hang). Although the latter are relatively far away from the Cambodian border, their position was not surprising to the architect as communication would have been easy via the Mekong river with the southernmost sites. This holds true for two other sites in the middle basin of the Se Kong river (Attopeu province) [Map 2] "Vat Sai Phai" (Upmung Se Su) and "Bàn Sáke" (Ban Sakhae) - that can also be easily connected to the pre-Angkorian sanctuaries discovered at the confluence with the Mekong in the Cambodian districts of Storng Treng and Thala Borivat (Parmentier 1927: 230). Among these seven sites, six - Wat Phu excepted - have not been researched until very recently.

That part of Laos was largely integrated in the Khmer cultural sphere was however made explicit at a rather early stage. Auguste Barth edited and translated two inscriptions from the Champassak region at the beginning of the twentieth century, namely K. 367 (1902: 235-240) and K. 363 (1903: 442-446). Parmentier (1912: 195-197) also acknowledged the very ancient origin of Wat Phu, even if the most visible parts of the sanctuary belong to the Angkorian period. The inherent sacredness of the site - the monumental complex is built at the foot of a mountain the shape of whose top suggests a natural *linga* (hence its name Lingaparvata) - seems indeed to have been recognised very early on by a community that had adopted the religious tenets imported from India. George Cœdès (1918: 1-3) even considered in his pioneering writings that the area had exceptional historical importance, for he viewed the site as the cradle of the first Cambodian dynasty - the "land of Kambu" i.e. the territory from which Zhenla had begun expanding to the extent of conquering Funan. This theory, based primarily on the interpretation of a late Sanskrit inscription found at Wat Phu (K. 475), was reaffirmed later on the basis of arguments found essentially in the Chinese annals (Cædès 1928: 124). It then received considerable support with the

#### Mon sites in southern and central parts of Laos. All the sites have been referenced by EFEO, excepted some sites in Champassak province where coordinates have been given by PRAL /Drawing courtesy of

Jérémy Ferrand].

**Opposite Map 1:** Khmer and

edition and translation of the Wat Luang Kau stele (K. 365), dated paleographically to the second half of the fifth century (Cœdès 1956). This inscription, which had been ordered by a mahārājādhirāja named Śrī Devānīka, had been found less than 5 kilometres away from Wat Phu in a vast complex whose groundplan had at that time just been revealed by aerial photography. The images clearly displayed what was hardly visible on the ground: in this case a quadrangle of 2,400 m. x 1,800 m. (with the Mekong as the eastern side), composed of several concentric earthen levee enclosures containing the buried remains of many monumental structures. In spite of the importance of the discovery i.e. the remains of an ancient city comparable to Sambor Prei Kuk in Cambodia - it did not rapidly trigger the excavation campaign that Cœdès called for.<sup>1</sup> Most archaeological research at the time was focussed on the Angkor area where so many other monuments still had to be inventoried and uncovered. Some twenty years later, Bernard-Philippe Groslier expressed great interest in extending research in southern Laos, but the political situation was already such that access to the area was impossible.

The absence of excavation programs in this region for most of the twentieth century was detrimental to the recognition of Laos as a territory in mainland Southeast Asia deserving in-depth historical studies. Concerning the period prior to the emergence of the Lao kingdom of Lān Xāng (fourteenth century), the country still appears as a large blank spot on the published historical maps where only the site of Wat Phu is sometimes mentioned. This observation does not only affect the history of Laos itself; the damage caused by the lack of documented research also severely impacts the overall vision and the degree of knowledge that we can achieve when dealing with regional history. As long as we ignore this territory, in spite of it being geographically located at the crossroads of the great civilisational currents of Southeast Asia, many key questions cannot be satisfactorily addressed. The remark applies to the so-called Indianisation process in inland regions, and to the type of contacts that may have been established between the first historical cultures of the middle Mekong valley and those which thrived in the Delta (Funan) or even in the coastal areas of central Vietnam (Campā) or central Thailand (Dvāravatī). Moreover, this lack of data has prevented any real constructive reflection on the development of the first territorial entities created by the Tai-Lao people. At the turn of the first millennium CE, this Tai-speaking population gradually moved southward along the rivers and settled in areas that other ethnic communities had occupied before them. Myths and legends aside, the questions of historical continuity on the Mekong banks and of the persistence of a cultural substrate have vet to be investigated.

However, thanks to some recent French and Italian field-research programs carried out in cooperation with the Lao Ministry of Information and Culture, it has now become possible to submit all these issues to a thorough review. The archaeological work done in Wat Phu between 1991 and 1998 under the aegis of the *Projet de recherche en archéologie lao* (PRAL) led to the discovery of pre-Angkorian structures in the upper part of the sanctuary and to the excavation of two monuments in the ancient Mekong riverside town (Santoni & Hawixbrock 1998; Santoni & Souksavatdy 1999). In the latter case, geomagnetic surveys provided substantial data about the settlement pattern, highlighting the existence of about thirty structures that are still buried. The surveys carried out by this team in 1998 and 1999 further led to the discovery of new temples in the southern part of Champassak province, close to the Mekong and along the old road connecting Angkor to Wat Phu (Santoni & Hawixbrock 1999). More recently, PRAL launched new excavation campaigns leading to the partial uncovering of two pre-Angkorian monuments in Nong Mung (2011) and Wat Sang-O (2013), in and around the ancient city (unpublished reports).

From 2003 to 2009, the École française d'Extrême-Orient (EFEO) centre in Vientiane has furthermore carried out an ambitious research program in the form of extensive surveys focussing on the identification and inventory of historical material in the seventeen provinces of Laos. While the northern part of the country offers a sizeable amount of useful evidence related to Tai-Lao culture in the second half of the second millennium, research in the southern and the central parts revealed - in addition to Lao remains - about eighty historical sites with much older data, dating back to the second half of the first millennium and the beginning of the second one [Map 1]. These sites belong to the Khmer (pre-Angkorian and Angkorian) and Mon cultural areas that had hitherto been largely unnoticed or ignored. This essay will focus mostly on the historical value of pre-Angkorian material found in the middle Mekong valley, mostly in modern-day Laos from Champassak up to Khammuan province, with some references to directly adjacent areas in Thailand and Cambodia.2

# **Backgrounds on a Regional History**

Whereas our knowledge of the ancient history of Cambodia, Vietnam and Thailand is more advanced than that of Laos, the geography of pre-Angkorian sites in these three countries has not been extensively documented so far.

The main resource available in this respect is Parmentier's book (1927), whose value is still undiminished in spite of its age. The author recorded over one hundred and seventy sites in Cambodia and southern Vietnam that can be considered as pertaining to Funan and Zhenla. New research has of course resulted in the discovery of other pre-Angkorian structures and artefacts. Some art historians and archaeologists (e.g. Pierre Dupont, Mireille Bénisti, Jean Boisselier and Miriam Stark) have significantly contributed to scholarship with relevant information or clarification on matters of style and dating. The study of inscriptions, developing from Cædès's work (1937-66), has also led a few scholars (mainly Claude Jacques and Michael Vickery) to supplement and reconsider some matters concerning the dawn of Khmer history. All the data currently available in the region should thus be collected and submitted to a comparative study taking into account. for instance, what we know about settlement modalities, monuments, statuary, material culture and textual sources.

Archaeological research in Thailand has also made considerable progress, highlighting the high degree of specificity of the northeast part of the country, where several native cultures have been recognised. It has now been shown that the first historical communities established in the region had developed into complex societies as early as the Iron Age and already attained an advanced level of technical development before they start to show evidence of influence from India (Higham & Rachanie 2012). The ethnic identity of these people during the early centuries of the Common Era is still a highly speculative issue. They probably belonged to the large Austro-Asiatic group, but it is impossible to say whether they were part of Khmer or Mon speaking communities before the seventh century when some inscriptions in these vernacular languages make their appearance (after an initial phase of writings in Sanskrit).

This may be of great importance if we consider, following Cœdès, that it was perhaps in both northeast Thailand and southern Laos that the first Khmer polities have arisen. Admittedly, information about the sites of the first millennium CE identified in northeast Thailand was still very scanty in the first half of the twentieth century. However, scholars' attention was drawn after a few Sanskrit inscriptions dated to the late sixth century were discovered in the Mun river basin (see *infra*). Remains of great value were also identified in some sites that appear to have been important cities, not only in the centre of the Khorat Plateau such as Mueang Fa Daet and Kantharawichai, but even more so in the western and southern border areas such as Si Thep and Dong Si Mahosot.

In the mid-1970s, B.-P. Groslier led two missions in northeast Thailand (1997: 199), one of his objectives being to collect information about the place of origin of the Khmer communities who had already been united into a political entity. He finally discarded the Khorat Plateau, where he did not find sufficient data, and pointed rather towards the southern Dangrek range (now in Cambodia) and possibly southern Laos, i.e. the Wat Phu region, for further investigation. He became aware, however, of the importance of the "Round Cities" (i.e. large moated sites) in northeast Thailand and drew a parallel between these protohistoric sites and most of the places that were later selected by the Khmers of the Angkorian period to build temples (1997: 206-207). Apparently, Groslier made a clear distinction between the communities that founded these moated cities with their peculiar hydraulic infrastructures and those that later founded the Khmer empire, never thinking of a possible continuity in the settlement process. Furthermore, he separated the two above-mentioned areas from a third one whose limits included the present-day Thai provinces of Kalasin, Sakon Nakhon and Nakhon Phanom. There, according to him, a "Civilisation of steles" - a type of artefacts already reported by Subhadradis Diskul (1956) - emerged as a cultural area that was even more different from that of the Khmers (1997: 202). Groslier's assumptions, stimulating as they were at the time, are now outdated. The large-scale work carried out by Thai archaeologists from the 1970s onwards, paired with the comprehensive research that has been conducted recently by Stephen Murphy (2010), has shown that the area over which this culture characterised by "Buddhist steles" (i.e. sema stones) indeed extended throughout the Khorat Plateau, with significant concentrations in some specific places. They also evidenced a link between this culture and a Mon-speaking population similar to that among which the Dvāravatī culture developed in the Chao Phraya river basin (Revire, this volume).

# The Geography of Pre-Angkorian Sites in the Middle Mekong Valley

Although based on only seven sites, the limits that Parmentier had set in 1927 for the pre-Angkorian area in Laos differ only slightly from those that are currently established on the basis of the *circa* fifty sites that have been recently inventoried by the Vientiane EFEO centre in the southern and central provinces. The contribution of recent research concerns the composition and the density of this area rather than its geographic extension.

Not only do the historical sites dated to the second half of the first millennium appear to be far more numerous than those dated to the first half of the second millennium, but they are also more evenly distributed, in relation with the constraints and assets of the environment. Parmentier wrote that "the structures displaying primitive Khmer style are rather close to rivers" (1927: 44), and his study is to a large extent structured on the basis of this observation. Apart from the introductory chapter devoted to Sambor Prei Kuk, the work is composed of three parts which cover successively the lower Mekong basin, the Tonle Sap basin and the upper reaches of the great river (upstream from Phnom Penh, including southern Laos and northeast Thailand). The maps provided to illustrate his study place particular emphasis on the secondary drainage system that is otherwise not so very clearly visible in the vast plains of Cambodia and whose importance is often underestimated. In Laos, as most of the territory is covered with mountains, the role played by the Mekong and its major left-bank tributaries appears similarly decisive.

# The Se Kong Basin

The Se Kong river, whose upper and middle courses are located in the eastern part of southern Laos, flows into the Mekong in Cambodia, less than 50 kilometres downstream from the Khone falls, the traditional and current frontier between the two countries.

The archaeological wealth at the confluence in both Storng Treng town and Thala Borivat village on the opposite bank has been highlighted in previous studies on the pre-Angkorian period (Parmentier 1927; Bénisti 1968; Lévy 1970), but current historical works tend to neglect it. The near total absence of field work so far in the region is surely the reason why no Khmer remains has ever been recorded in the lower basin of the Se Kong upstream of the confluence of the Se San (less than 10 kilometres away from Stoeng Treng) up to the border of the Lao province of Attopeu, i.e. over a distance of some 150 kilometres. Partial surveys carried out over a distance of about 50 kilometres in Lao territory downstream from the town of Attopeu have not yet been conclusive. However, many remains have recently been found by the EFEO team in the middle basin of the river up to the limit of Sekong province – the upper basin could not be explored due to difficulty of access to the territory - thus confirming the existence of relations with pre-Angkorian sites bordering the Mekong [Map 2].

Map 2: Pre-Angkorian sites in the middle Se Kong basin, Attopeu province, Laos [Drawing courtesy of Pierre Pichard]. 1. Ban Khum Kham 2. Ban Sok 3. Ban Sapoan 4. Ban Sakhae 5. Ban Halang 6. Ban Se Kaman Nua 7. Upmung Se Su 8. Ban Fang Daeng 9. Ban Wat That 10. Ban Tatkum

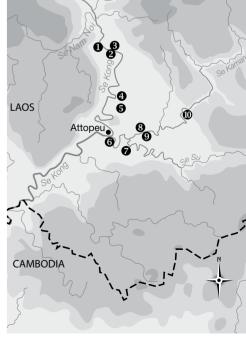




Figure 1: Stele or ogee step, Upmung Se Su site, Attopeu province, Laos [Photograph by Michel Lorrillard].

Figure 2: Detail of a stele with a symbolised trimūrti, Ban Tatkum, Attopeu province, Laos [Photograph by Michel Lorrillard].



Terrestrial east-west routes also ran across the Boloven Plateau from these lowlands to the territory surrounding Wat Phu (Attopeu and Huei Tomo are located at the same latitude) over a distance of about 100 kilometres. Whereas the Attopeu plain is rather vast – about 40 kilometres at its widest point – thus offering much space for human settlement, we can observe that the communities gave preference to riparian habitats, thereby confirming Parmentier's views. Eight of the ten sites where evidence of the pre-Angkorian period has been found seem to have been places where at least one monument was erected.

On the banks of the Se Kong, at a short distance from each other, three sites with both architectural components and ceremonial objects have been identified. Ban Khum Kham – the site located furthest upstream – has revealed several door jambs, one door head/sill, two ogee steps, a *somasūtra* and fragments of ablution basins (*snānadroņīs*) among various heaps of bricks. These remains may have belonged to the

same complex as those found in Ban Sapoan and opposite Ban Sok, 2 kilometres downstream, in particular large-sized bricks and rectangular sandstone slabs which might have been door jambs. In four different places in the village of Ban Sakhae, at about 20 kilometres further south, on the outer side of a narrow bend, significant remains such as a lintel (see *infra*), thresholds, door heads/sills, door jambs, a *somasūtra*, parts of a pedestal and heaps of bricks, suggesting the presence of an important shrine, have been located. A few sandstone fragments found in Ban Halang, 2 kilometres south, could be related to this site.

The modern town of Attopeu lies at the confluence of the Se Kaman, a major river whose source is located in the Annamite mountain range, at the border of Quang Nam province in Vietnam. On the left bank of this river, less than 1 kilometre away from the confluence, the former existence of an ancient structure is indicated only by the presence of a concentration of large bricks amongst which are a few scattered objects that suggest religious activity such as fragments of a pedestal. After navigating past the meanders of the Se Kaman over a distance of about 12 kilometres, travellers arrive at the confluence with the Se Su, another river with its source in Kon Tum province in Vietnam. An important pre-Angkorian site called "Upmung Se Su" has been discovered 2 kilometres upstream on the west bank of this river.

At least two monuments must have existed there, as can be deduced from about twenty sandstone architectural components that were found and the extent of the area covered by bricks **[Figure 1]**. The site has obviously been heavily looted and no remains of cultual objects have been found. The structures were discovered in the early twentieth century and the French colonial authorities made arrangements to transport two lintels of the seventh-eighth centuries that looters had not yet taken away to the former *mueang* (town) of Attopeu, somewhat further upstream on the Se Kaman. One of them is still displayed in the modern Lao temple of Ban Fang Daeng, along with the fragment of a colonette probably originating from the Se Su site as well.

Ban Wat That temple, on the left bank of the Se Kaman and almost precisely opposite Wat Ban Fang Daeng, is famous for its stuba that tradition assigns to the reign of the Lao King Setthathirat (mid-sixteenth century). However, the site might well be much older, since many Khmer remains, apparently belonging to the pre-Angkorian period, have been discovered there. This applies in particular to the fragment of a pedestal cornice and the corresponding dado with pilasters that is still half buried. Three large rectangular sandstone slabs may also belong to an ancient monument. The remaining parts of a large stone statue of the Buddha (crossed-legs and the head) that were to be assembled - as shown by the presence of a mortise - have however raised some doubts. Some stylistic features, for example the straightened hair, are rather reminiscent of the Angkorian style. The site of Ban Wat That might well have been a stopover along the course of the Se Kaman, as was the case with the Ban Tatkum site located about 30 kilometres upstream, at a distance of only 5 kilometres from the nearest mountain barrier belonging to the Annamite range.

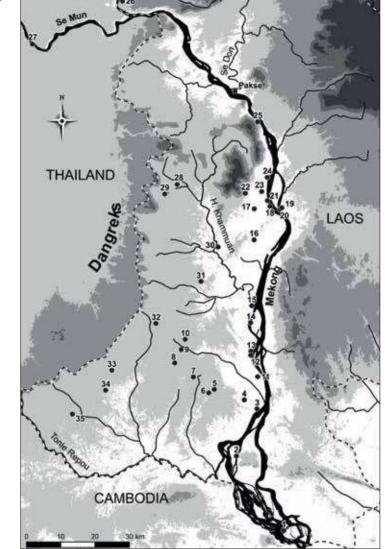
Of all the ancient historical sites identified in Laos, Ban Tatkum is easternmost (one can hardly find a sanctuary lying further away to the east, given the geography of the country); it is also the closest one to the historical territory of Campā in Vietnam. The existence of an ancient structure cannot be proven. However, the area is characterised by the presence of a large stele that lay among some sandstone blocks of indeterminate purpose; the upper part is carved in low-relief and represents a symbolised *trimūrti* [Figure 2]. Particular attention has been paid to the carving of attributes: a trident (*trisūla*) for Śiva, flanked by the water-pot (*kamandalu*) for Brahmā and the wheel (*cakra*) for Viṣṇu.<sup>3</sup> The three figures stand above a rectangular shape with rounded corners, bearing a bulge on the left-hand side. This curious design is reminiscent of the shell of a turtle – possibly the turtle supporting the cosmos.

# The Champassak Plain

Champassak province, bordering Cambodia and extending on both banks of the Mekong, is not surprisingly the area with the highest number of ancient remains. Some twenty-four pre-Angkorian sites have so far been identified (with Wat Phu and the old city each counted as one) whereas only a dozen Angkorian sanctuaries have been found in the same region [Map 3]. Virtually all pre-Angkorian sites, from Khong island in the south to Phu Lakkhon in the north, are located along the Mekong or in its immediate vicinity. The maximum distance from the riverside does not exceed 20 kilometres, except for the Ban Huei Na/Phu Lek complex (about 30 kilometres), which might have been a stopover on the transverse road leading to the Mun valley without having to travel up to the confluence. The rationale underlying the position of sites is clearly different from that of Angkorian sanctuaries that were meant to be primarily stopping places on the land route between Angkor and Wat Phu.

The Huei Tomo site at the confluence of the river bearing the same name should be considered as a particular case, not only because it is positioned on the left bank of the river (which is unique in the province), but also because it harbours both pre-Angkorian (lintel, *somasūtra* with *makara* head, and perhaps a *mukhalinga*) and Angkorian remains Map 3: Khmer sites in Champassak province, Laos [Drawing courtesy of Jérémy Ferrand].

1. Wat Don Khone 2. Khong 3. Ban Sabhang 4. Nong Sombat Nai 5. Nong Boa Bo Pong 6. Nong Sombat Noi 7. Nong Sombat Gnai 8. Huei Kadien 9. Sang Mouang 10. Nong Saming 11. Veun Kaen 12. Non Sombat 13. Non Pha Khao 14. That Don Sai 15. Ban Outhoum Mai 16. Ban Na Khi Khuai 17. Ban Khok Khong 18. Ban Katup 19. Huei Tomo 20. Khan Mak Houk 21. Ban Muang Kang 22. Wat Phu 23. Wat Phu ancient city (Lingapura?) 24. Wat Lakhon 25. Phu Malong 26. Phu Lakkhon 27. Ban Sabheu 28. Ban Huei Na 29. Phu Lek 30. Ban That 31. That Na Samliang 32. Dong That 33. That Ban Don 34. That Nang In 35. Nong Pham Ban Vienne



(sanctuary, inscription K. 362). We still do not know why Yaśovarman I (r. 889-910) chose to establish one of his hermitages ( $\bar{a}$ /srama) in this place – about 10 kilometres from Wat Phu, specifically on the side of the eastern foothills – where occupation seems to have been much more modest.

Khone island also harbours an example of an Angkorian structure located along the Mekong; however, with due consideration for the continuum that seems to have existed between the oldest sites in Stoeng Treng province in Cambodia and those in Champassak province, we may assume that the place has also been occupied in the pre-Angkorian period. The nearby waterfalls separating the modern territories of Cambodia and Laos may have been appealing as much as it was a cause of fear, and in-depth research on this area would be profitable. A few kilometres upstream of Khone island (almost precisely opposite to Khong island)

is also the confluence of the Tonle Repou, a right-bank tributary of the Mekong separating Laos from Cambodia for more than 80 kilometres. This river (flowing NW-SE), which the Angkor-Wat Phu land route crosses, must have played a major role in giving access to the southern flank of the Dangrek range, particularly to the Preah Vihear temple, whose religious importance may have been based on the transfer of a fragment of the natural Wat Phu linga in the early ninth century (Jacques 1976: 363; Sanderson 2003-04: 410-420). A pre-Angkorian temple with two inscriptions on door jambs dating possibly from the seventh century (K. 341) was also built on this axis on the Cambodian side, about 30 kilometres from the Lao border (Cœdès 1966: VIII, 134). This region may have been used to travel to Sambor Prei Kuk via Mlu Prei and along the Stoeng Saen river in Cambodia. Very little research has been carried out in these remote areas, particularly on the southern and western edges of Champassak province, due to the presence of large non-cleared areas.

The Mekong riparian sites in Champassak province belonging to the pre-Angkorian age display a linear settlement pattern that cannot be so clearly identified in Cambodia, where sites are much more scattered. The complex formed by the original Wat Phu sanctuary and the adjoining ancient city has obviously played the role of a focal point in this network. The remains found there are much older, so that it can be assumed that the construction of the monuments really started and developed from the time when the sanctity of the mountain was recognised, after its summit had been identified as a linga. It is interesting to note that an almost precisely north-south line of about 80 kilometres, with an alignment connecting most of the other sanctuaries, can be drawn between the old city and the pre-Angkorian temple on Khong island located closer to the Khmer border. It even seems that the early communities, when electing sites for settlement up to a distance of 20 kilometres downstream from the city, where the Mekong forms a loop imposing increased travelling time, preferred to settle away from the riverside to remain in the alignment and therefore use the overland route. This is illustrated by the find-spot of certain remains, such as a somasūtra with a makara head and a snānadronī with its linga in Ban Khok Khong, a pancalinga in Ban Na Khi Khuai, and even more clearly by the location of many ancient artificial basins, as is revealed with remarkable accuracy by aerial photography.

The existence of several pre-Angkorian sanctuaries erected along the Mekong is further evidenced by the presence of seemingly very early lintels (Khong island, Veun Kaen, Non Sombat, Non Pha Khao, That Don Sai, Wat Phu ancient city, Phu Malong), and other architectural remains such as door jambs (Outhoum Mai) and vestiges of brick structures (Ban Saphang, Wat Lakhon in Champassak). The distance between these sites never exceeds a dozen kilometres (some are even very close to each other), indicating a rather even distribution. Five other small pre-Angkorian sanctuaries (Nong Sombat Nai, Nong Sombat Noi, Nong Sombat Gnai, Huei Kadien, Nong Saming), forming another alignment perpendicular to the river, though never far removed from it, could be slightly more recent, as suggested by K. 1201, an inscription of Jayavarman I dated to 654 CE found near Huei Kadien **[Figure 3]**, and a different construction mode (Santoni & Hawixbrock 1999: 396). Lintels have never been found there. As indicated by their



Figure 3: Inscribed door jamb from Huei Kadien, Champassak province, Laos [Photograph courtesy of Ang Choulean].



Figure 4: Lintel from Ban Huei Na, Pakse Museum, Champassak province, Laos [Photograph by Michel Lorrillard]. names in many cases, these sites are here again related to rectangular ponds (*nong*) enclosed in large earthen levees. Champassak province is home to hundreds of such artificial basins; these are very common in Cambodia (*trapeang*, *barai*) but are almost non-existent elsewhere in Laos. A study of their distribution is extremely informative, not only because it shows a parallel with the location of the shrines, but also indicates ancient settlements that have now been swallowed by the forest.

Some areas that are still unexplored but for which aerial photography reveals a number of such structures probably harbour a rich archaeological potential.

The rivers flowing from the eastern end of the Dangrek range down to the Mekong, whose general course is roughly west-east, also deserve special consideration as they relate to a large extent to the modes of settlement. Attention should also be given to Huei Khammuan, a stream whose source is located on Phu Pasak, i.e. one of the heights overlooking Wat Phu, due to its numerous meanders that make it the longest and widest river of Champassak plain.

Very few shrines have been built on high ground, so that the Wat Phu sanctuary, standing on the eastern slope of Phu Kao, is an exceptional example. Nevertheless, other places of worship have been created along this specific mountainous alignment, including some cave structures with only pre-Angkorian inscriptions (K. 723, K. 724, K. 1040, K. 1059). The Upmung shrine, very close to Wat Phu, as well as the Phu Malong sanctuary that was recently discovered at the other end of the range, are early buildings that may have been vested with a religious status superior to that granted to the monuments erected close to the riverside downstream from the ancient city.

It is possible that, starting from Wat Phu, travellers circumvented the Phu Kao (1,416 m.) and Phu Pasak (1,408 m.) mountains along the western route and progressed northward to reach the vast plain of Phon Thong district, thus easily gaining access to the Mun valley. No sanctuary has been found there yet, though several artificial basins have been identified. We have already referred to another road crossing the Dangrek range, with a stopover in Ban Huei Na/Phu Lek, where an interesting fragment of a pre-Angkorian lintel has been discovered [Figure 4]. However, the road most travelled must have been the Mekong up to the confluence with the Mun at a distance of about 70 kilometres from Wat Phu. Apart from the Phu Malong shrine located on a hill, it does not seem that any sanctuary was built along this way, so that a clear distinction should be maintained between the area extending upstream from Wat Phu and that located downstream, up to the Khone falls.

# The Lower Mun Basin

George Cœdès was among the first to put forward the idea that there was a form of unity in terms of communities and culture between the basin of the Mun river in Thailand **[Map 4]** and the Champassak area in Laos; however, the suggestion has never really been substantiated with conclusive data. As a matter of fact, it is highly questionable



considering that the Khorat Plateau – especially on the western side – has not yielded any quantity of pre-Angkorian material comparable to what has been discovered in Cambodia and even in southern Laos. Just as we can claim that the lower basin of the Mun river has played virtually no role in the process of Angkorian penetration beyond the Dangrek range – as it developed mainly via passes in the western part of the range in the Khmer provinces of Utdor Meanchey and Banteay Meanchey –, we must also acknowledge that pre-Angkorian culture was propagated to a large extent following the course of the main rivers, confirming the importance of the middle Mekong, the Mun and its tributaries.

Concerning the lower Mun basin, references are currently restricted to the six Citrasena/Mahendravarman inscriptions found in the immediate vicinity of the confluence. We should set apart the inscribed stele found in Phu Lakkhon (K. 363) since it is located opposite the place where the Mun reaches the Mekong, i.e. in Lao territory. Among the other five inscriptions found in Ubon Ratchathani province, Thailand, two were discovered in Khan Thewada (K. 496 and K. 497), on a hill overlooking the confluence; two in Tham Prasat (K. 508 and K. 509), a cave shelter overlooking the Mun 2 kilometres from the preceding location; and the last one in Pak Dom (K. 1190), 4 kilometres further upstream. All of them are fairly short and the few French and Thai epigraphists who have examined them suggested that they were items commemorating victories (Jacques 1993). In spite of variations that are worth examining, these inscriptions prove similar to those found on the banks of the Mekong in Cambodia (K. 116, Chroy Ampil and K. 122, Thma Krê, Kratie province) and Laos (K. 363, K. 1193 and K. 1194, Champassak province), but also farther west on the Khorat Plateau (K. 377, Surin province; K. 514, Buri Ram province;<sup>4</sup> K. 1102.

Map 4: Ancient historical sites in the Lower Mun basin, Thailand [Drawing by Michel Lorrillard and Nicolas Revire]. Khon Kaen province; K. 1106, Nakhon Ratchasima region and K. 1280, Roi Et province) and in Prachin Buri province (K. 969). Whereas most of the bases used for these inscriptions are plain steles, one of the two Tham Prasat inscriptions (K. 509) is engraved on a large pedestal serving as a base for a stone carved bull, as is the case at Wat Phu (K. 1193 and K. 1194), Roi Et (K. 1280), Surin (K. 377) and Khon Kaen (K. 1102).

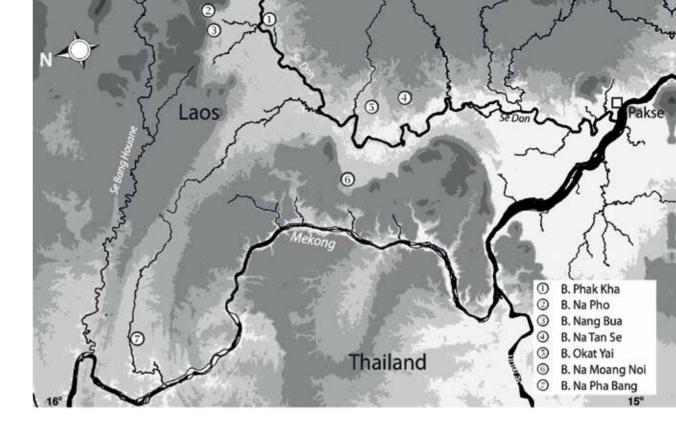
Another short pre-Angkorian inscription (K. 1096) was found before 1975 (FAD 2529: I, 284-286) at Wat Sa Kaeo, Phibun Mangsahan district, Ubon Ratchathani province, just in front of the Keng Sapheu rapids on the Mun, but it seems to have disappeared (FAD 2535: 80). It mentioned a king named Nrpendrapativarman,<sup>5</sup> possibly a relative of Mahendravarman. Anyway the place where the inscription was found is most interesting since it is also there that the first evidence of pre-Angkorian architecture was discovered upstream from the confluence of the Mun, at a distance of about 40 kilometres, taking all meanders into account. On both sides of the river where large rocks make it possible to wade across in the dry season, three sites have revealed the remains of buildings made of bricks with some sandstone components, including two fine lintels dating back to the seventh or eighth century CE (Le Bonheur 1995: 67, 79-80; Piriya 2012: 120).

No other important vestige from the pre-Angkorian era has been found in the lower reaches of the banks of the Mun itself, but some sites located along its tributaries show that the earliest Khmer culture had expanded widely in the region, that is in Ban Kaeng Toi (*somasūtra*, colonettes) on the Lam Se Bok river in Ubon Ratchathani province; in Don Mueang Toei (brick building, inscription K. 1082) on the Chi river in Yasothon province;<sup>6</sup> in Don Khum Ngoen (architectural remains, inscription K. 1280) on the Lam Sieo Noi river in Roi Et province (Kongkaeo 2549; Charuek 2550); and probably also in Ubon Ratchathani province (Nam Yuen district) along the lower reaches of the Lam Dom Yai river (reclining Vișnu carved in rock) whose source in the Dangrek is close to that of the Tonle Repou river flowing on the other flank of the range down to the Mekong (Dhida 2536: 48).

The first "Indianisation" process in this region, i.e. the introduction of new Indic concepts and forms of aesthetic expression, must have developed rather rapidly under political impetus. It is very likely that exchanges by waterway were preferred. However, the position of some pre-Angkorian sites in the Mun basin shows that the Mekong, via Wat Phu, was not the only communication channel from (and to) Cambodia. It is highly probable that additional land routes were also rapidly established across the Dangrek range, especially in its westernmost part. For instance it seems that the early Prasat Phum Pon, dated to the second half of the seventh century according to Piriya (2012: 119), in Surin province, was integrated rather into an overland network, even if two nearby waterways, in the east and west, facilitated communication with the Mun.

# The Se Don Basin

After establishing the existence of a link between pre-Angkorian structures and waterways beyond the Khone falls on the right bank of the Mekong, it is reasonable to assume that this also applies to the



left bank in Laos. The course of the Se Don river, whose confluence is 40 kilometres downstream from that of the Mun river, was even more likely to harbour substantial archaeological potential as it represents a very good alternative to the Mekong for north-south communication **[Map 5]**. When reaching this portion of its course, the Mekong had to cut its way across a mountain range over a distance of about 100 kilometres between the fifteenth and sixteenth parallel and was forced to change its orientation (predominantly NW-SE) over a significant distance. Navigation in this reach is hampered by dangerous rapids; and human occupation, as attested by the presence of cave paintings, seems to have been limited only to the prehistoric period. To the east of this range, the lower Se Don valley represents a real corridor bordering the northern part of the Boloven Plateau.

The attention that ancient communities paid to the physical features of this territory is particularly evident in Ban Na Moang Noi, on the right bank of the river. The mountain range bordering all the western side of Saravane province is characterised there by a narrowing of the ridge line so that the valley of the Se Don could cut its way across it. A pre-Angkorian temple was built at the tip of this wedge formed by the lowlands, at a distance of only 11 kilometres from the Mekong. Due to the presence of a pass, access to the river via a west-facing trail is easy, whereas it is virtually impossible elsewhere unless the traveller is prepared to prolong the journey by several dozen kilometres to circumvent the range. The ruins of the sanctuary form a mound with several pieces of carved sandstone emerging out of the ground. Parts of a pedestal, as well as a *snānadronī* with its *linga* [Figure 5] have been found on the eastern side, on the edge of a rectangular pond.

Map 5: Pre-Angkorian and Mon sites in Saravane province, Laos [Drawing courtesy of Jérémy Ferrand].

Figure 5: Ablution basin (snānadroņī) with its linga, Ban Na Moang, Saravane province, Laos [Photograph courtesy of Mr Phakhanxay].





Figure 6: That Phon, Savannakhet province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Parmentier, PAR00563, dated 1911].



Other remains – including a door jamb and a door head, the fragments of a base and a *linga* of rough workmanship – have been found in Ban Na Tan Se and Ban Okat Yai, two sites at a distance of 7 kilometres from each other, close to the left bank of the Se Don. Furthermore, at about 30 kilometres upstream, a *linga*, a pedestal dado (or a socle) and three *peşanīs* (grinding stones) have been discovered in three additional sites, of which two are located on the sloping right bank of the river. The upper valley of the Se Don, where the Annamite range commands the vast Saravane plain in the east, has not so far revealed any trace of ancient remains, though the region may also harbour archaeological potential.

The only option when travelling between the isolated province of Saravane and Savannakhet is following the Lakhon Pheng corridor, a narrow (4 kilometres in the centre) and long (about 60 kilometres) NW-SE oriented strip

of lowland wedged between two ranges. On its western side, where the mountains are much less elevated, this corridor is cut by the Mekong, but geologically extends far beyond the river up to the vast plains of the Thai provinces of Amnat Charoen and Ubon Ratchathani. The latter feature is quite important as it accounts for the specificity of this archaeological space representing the southernmost limit in Laos of a cultural area that is distinct from that of the Khmers, though equally ancient. Seven sema stones decorated with the stylised representation of a stupa and a low-relief image of a sitting Buddha have indeed been discovered at two sites close to each other, in the village of Ban Na Pha Bang, at a distance of 12 kilometres from the Mekong. These carved stones, one in particular with the kumbha motif, are typical of the Mon culture that developed in the second half of the first millennium in northeast Thailand (Murphy 2013). The sandstone surface covering the first site has been dug out to create a rectangular space, as aerial photography shows. Rectangular or oval cavities looking like mortises were probably meant to be the base of specific objects (sema stones?). The second site, displaying a rather coarse rectangular substructure with a medley of sandstone blocks and large bricks, may have been a place of worship too, although it has probably been refurbished by the Lao people at a later date.

# The Se Bang Hieng and Se Bang Fai Basins

Two major left-bank tributaries of the Mekong cross the Savannakhet plain in Laos: the Se Bang Hieng in the south and the Se Bang Fai in the north, together with their own tributaries, some of which have their source in the Annamite range. We can assume that this vast

Figure 7: That In Hang, Savannakhet province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Parmentier, PAR00472, dated 1911].

lowland area – four times larger than the Vientiane plain – has been an attractive zone for settlement, even if the Lao people settled there only at a late date. The twenty-four ancient sites that have been found there are distributed among different basins, predominantly on the western side, where wetlands are larger **[Map 6]**.

The circa fifteen sites dating from the second half of the first millennium are at a short distance from the Mekong and compose a relatively continuous network of stations along the river up to the confluence with the Se Bang Fai, opposite the old sanctuary of That Phanom in present-day Thailand. This monument, whose original structure collapsed in 1975 along with the larger Lao period stūpa that covered it, must have been very similar to the pre-Angkorian towers of That Phon [Figure 6] and That In Hang [Figure 7], whose shapes have survived in spite of successive "restorations." The few remains (bricks, door head/sill, pedestals, somasūtra with makara head, snānadronīs with *linga*, inscriptions) of the sanctuaries in Ban Na Khu, Ban Nong Hai, Ban Don Seng and Nong Hua Thong, located between the Se Bang Hieng and the Se Bang Fai, may date back to the same period (eighth century?). It seems that the Khmers of the pre-Angkorian era never expanded beyond the seventeenth parallel, on either bank of the Mekong. The Mon people, who actually also occupied this area as well as

others situated much further upstream, in particular in the vast basin

of the Nam Songkhram in Thailand and in the Vientiane plain, have

Map 6: Khmer and Mon sites in Savannakhet province, Laos [Drawing courtesy of Pierre Pichard]

1. Ban Hua Hat 2. Ban Na Khu 3. Ban Nong Hai 4. Huan Hin 5. That Ku 6. Ban Na Katang 7. Ban Tum Ye 8. Ban Nong Savang 9. Ban Mueang Phong 10. Mueang Phin 11. Ban Se Tha Moak 12. That Phon 13. Ban Phumma Chedi 14. Ban Don Tum 15. Ban Tak Daet 16. Ban Pha Kha Niai 17. Ban Sompoi Noi 18. That In Hang 19. Ban Don Seng 20. Nong Hua Thong 21. Ban Mak Nao Tai 22. Ban Kang 23. Ban Na Moang 24. Ban Sikhai 25. Ban Xieng Vang Tha 26. That Sikhot

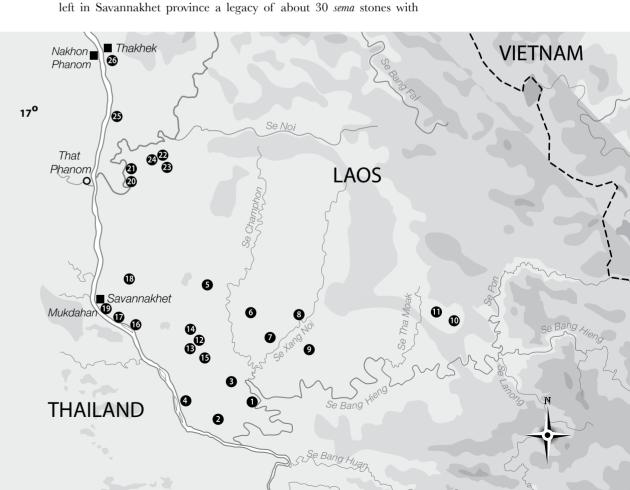




Figure 8: Sema stones, Ban Na Moang, Savannakhet province, Laos [Photograph by Michel Lorrillard].

stylised *stūpa* images, including some large-size and well-crafted pieces **[Figure 8]**. These objects of worship have been discovered mainly in two areas, each of them harbouring several locations, close to That Phon (Ban Tak Daet, Ban Phumma Chedi) and the confluence of the Se Bang Fai (Ban Kang, Ban Na Moang, Ban Sikhai, Nong Hua Thong), where they tend to mingle with pre-Angkorian vestiges.

The Khmers of the early second millennium also left evidence of their presence in this area. About 50 kilometres downstream of Savannakhet, they built (but left unfinished) the Huan Hin temple, which at this stage of knowledge definitely represents the northernmost Angkorian monument erected on the riverside. It was certainly related to several sites that appear to have been established on an axis parallel to the Mekong at about 30 kilometres inland, in the Se Champhon basin. That Ku, a very small ruined building consisting of three aligned cells, is the furthest north. In Ban Na Katang, satellite photography has revealed the presence of a double rectangular enclosure made of earth levees. On-site surveys led to the discovery of sandstone sculptures, including a Buddhist triad of the Bayon style (cf. Multzer o'Naghten, this volume, fig. 18). Other carvings in Khmer style have been found in Ban Tum Ye, Ban Non Savang and Ban Mueang Phong, between the Se Champhon and the Se Xang Noi.

Two sites have been identified much further inland, in the basin of the Se Tha Moak; at this stage, they should be considered marginal, as they do not fit in the network of sites identified on the Mekong, but further research may lead to identifying such places as stopovers. Ban Se Tha Moak and Mueang Phin are indeed positioned on an overland route crossing the Annamite range at the nearby Lao Bao Pass. A base with a mortise of clearly Khmer style has been discovered in the Lao temple of Ban Se Tha Moak, but we have no information about its place of origin. It might be appropriate to examine whether there is a link between this item and a square pedestal found together with a partially buried sandstone block (a dado?) 11 kilometres to the southeast, close to Mueang Phin. However, these two remains protrude from a mound covered with vegetation together with five *sema* stones decorated with the *stūpa* image, thus suggesting that this region adjacent to Quang Tri province in Vietnam received influence from both ancient Mon and Khmer cultures.

Whereas the Savannakhet plain opens widely out onto the lower basin of the Chi and the Mun rivers, the scanty lowland spaces bordering the Mekong in Khammuan province, upstream from the confluence of the Se Bang Fai, represent – in terms of physical geography – a continuation of the Nam Songkhram and Nam Kam basins (Thai provinces of Nakhon Phanom and Sakon Nakhon). The Angkorian culture that spread across the region has left some traces on the left bank of the Mekong, but no certain conclusion can be drawn as to their origin. The angle antefixes in the form of *nāgas* and the beautiful stele reused in Lao time, which were found in the immediate vicinity of That Sikhot, raise questions about the internal structure of the monument, which could well be much older than is generally assumed. The origin of a door jamb (likewise reused for a modern Lao inscription) found in Ban Xieng Vang Tha, about 20 kilometres downstream, is also challenging. The presence in the same area of two straight earth levees, running parallel and continuously over 750 metres, linked by perpendicular sections distributed at regular intervals and thus creating compartments, as well as large *trabeang/barai*-type basins, may indicate that this has been an area of settlement in ancient times, comparable to Nong Hua Thong located at a distance of about 20 kilometres. However, no firm conclusion can be drawn at present as no datable remains are available.

# **General Interpretation**

This brief review of the pre-Angkorian archaeological evidence made available for southern and central Laos - in relation to that in the neighbouring regions of Thailand and Cambodia - highlights the importance of certain areas that would already have been prime candidates by mere examination of a topographical map. Similar to what had been noticed for Cambodia, the lowlands represented a privileged space for settlement, the more so when the area concerned lay close to a waterway. In this connection, the banks of the Mekong played an essential role. Contrary to what happened during the Angkorian period, we observe an undeniable continuity of occupation along the river in the pre-Angkorian era, and there was no major difference in the type of settlements both downstream and upstream of the Khone falls. However, the distance separating individual sites was variable and we observe that uninhabited areas were maintained between the settlement clusters. Champassak province, with its regular line of sanctuaries distributed over some 100 kilometres (circa 20 spots between Khong island in the south and Phu Malong in the north), is comparable - in terms of wealth in religious sites - to the area of about 50 kilometres in length between Thma Kre and Koh Krieng, in the adjacent Khmer districts of Kratie and Sambor. Because of an apparent lack of remains, this latter cluster is isolated from that of Storng Treng/Thala Borivat located 60 kilometres upstream. Two territories characterised by a comparable paucity - one extending from Storng Treng up to Khong, the other, further north, from the Phu Malong site up to the confluence with the Mun - cover

the same distance. Savannakhet province displays a regular series of pre-Angkorian sanctuaries between Ban Na Khu and That In Hang over about 60 kilometres, and then presents an area devoid of archaeological remains of about 40 kilometres up to the next cluster, that in the confluence of the Se Bang Fai (Nong Hua Thong/That Phanom).

Whereas islands were sometimes preferred to establish sanctuaries (Khong and Don Sai in Laos), not all sites were located very close to the riverside. It is worth noticing that, when the river flows in vast plains, the ancient communities seem to have preferred erecting the monument in a place slightly removed from the banks of the river. There is no evidence that systematic settlement of riverbanks was sought, probably because of flood risk or enhanced exposure to specific dangers such as invasions. Nevertheless, the Mekong was the key artery for communication in mainland Southeast Asia up to the beginning of the modern era, and many sites owe their importance to this river. The Wat Phu complex, apart from its being located at the foot of a mountain with sacred status, would probably not have developed to the extent that it has if it had not been erected close to the Mekong, especially during the pre-Angkorian era. Later, the site became the goal of a SW-NE-oriented land route coming from Angkor. With this new route, travellers came closer to the Dangrek range and could also reach Preah Vihear via an additional branch. It is likely that, with the westward shift of the seat of power that occurred at the time, the role of the river sharply declined, including in religious terms.

Even if the investigations carried out by prehistorians have not to date proven the existence of important settlements on the banks of the Mekong, it cannot be denied that, in the first centuries of the Common Era, the river, as a major link for communication, had led to the development of large entities. Attention has so far been paid almost exclusively to sites located near the coast, such as Oc Eo and Angkor Borei in southern Vietnam and Cambodia, which are associated with the Funan culture (without any certainty as to the part played by the Khmer component in their development). The shortcomings of research in this area is evident: whereas older studies in art history have already demonstrated the importance of clusters of monuments built on the banks of the Mekong – e.g. Sambor and Stœng Treng/ Thala Borivat – no historical study has yet attempted to make their specificity explicit.

The ancient city adjoining Wat Phu has also been largely ignored in the work of many authors. Among the ancient remains that have been found there, it is particularly surprising that the large Devānīka (Wat Luang Kau) stele that, according to Cœdès (1956: 211), dates back to the second half of the fifth century CE, did not spark more questions. It seems more appropriate to consider that the "king of kings" who ordered the inscription and "came from far away" originated from downstream in Funan rather than in a territory to the east (Campā), or even to the west (Si Thep) as has sometimes been claimed (Jacques & Lafond 2007: 69). As the new evidence above demonstrates, Wat Phu sanctuary in its earliest phase was far from being isolated. It was part of a network of sites located along the banks of the Mekong that extended from the Delta up to a limit that might have reached the confluence with the Se Bang Fai at a very early time. It would be no surprise if the pre-Angkorian temples (or the simpler structures that preceded them) – in addition to being stopping places on popular routes – had indeed been erected along much older exchange routes, especially those used to transport prized merchandise. We can for instance observe a fairly high degree of correspondence between the location of the first historic sites in the Mekong middle valley and the places where the bronze drums, whose major production centres were in northern Vietnam, have been discovered (Eiji 2005). A significant number of these ceremonial objects have been found in the Se Bang Hieng basin (Phin, Phalanxai and Xonburi districts), not far from the Annamite range, but also on the banks of the Mekong up to the confluence with the Mun, and its basin.

We also know that the Khorat Plateau in Thailand experienced an important development in the Iron Age, paired with the emergence of numerous sites displaying a complex layout (Higham 2002). These were related to the emergence of chiefdoms for which assertion of power was associated with the accumulation of wealth of various origins. Supposing that there was shift from the numerous "moated sites" that appeared on the Khorat Plateau in protohistoric times to the quadrangular cities with a moat on all four sides that developed during the pre-Angkorian period - with the same purpose of having good control on water resources -, the process that brought about this change has not been much investigated. In Laos, the only two large sites surrounded by earth levees are the ancient city of Wat Phu and Nong Hua Thong, both located close to the river bank. In the former case, the borderlines are quadrangular whereas, in the latter one, a semicircular enclosure was combined - probably at a later stage - with a straight double wall. We have to turn to Cambodia to identify structures comparable to the model displayed by the city of Wat Phu, namely at Sambor Prei Kuk, which seems to have been erected somewhat later, or possibly at Banteay Prei Nokor, to which Parmentier gave special importance in his last writings (1948: 93-94).

Laos does not present the type of large sites with a curved shape and moats that exist in Thailand on the western flank of the Khorat Plateau, such as Si Thep (Phetchabun province) and Dong Si Mahosot (Prachin Buri province), nor the type of protohistoric sites such as Noen U Loke, Ban Non Wat or Nong Mueang Kao (Nakhon Ratchasima province). However, due to their layout, a number of sites on the left bank of the Mekong may be related to more modest places belonging to an early period, such as Ban Tamyae, Pit Tong and Nong Phayu in the lower basin of the Mun (Si Sa Ket province). I refer here to dozens of villages in some specific parts of the Lao provinces of Saravane, Khammuan and Savannakhet, corresponding to areas where pre-Angkorian ruins have also been found (Lorrillard 2013b). These villages become clearly visible with aerial photography, due to the oval or quadrangular green belt enclosing them and hinting at the possible existence of a former moat that was fed by a stream.

# Some Historical Markers

Whereas pre-Angkorian dynastic history remains to a large extent unknown in Cambodia, certain amounts of data delivered by studies in epigraphy and art history provide precious historical markers. The



Figure 9: Wat Luang Kau or Devānīka stele (K. 365), Face D, Wat Phu Museum, Champassak province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Laos 21533a].



Figure 10: Phu Lakkhon stele (K. 366), Champassak province, Laos [Photograph by Michel Lorrillard].

seventh century seems to have been a period of relative unity, at least up to the reign of Jayavarman I who died circa 680. The inscriptions for this period are much more numerous and informative than those of the eighth century which has often been described as a period of great instability related to a lack of central authority (Dupont 1943-46). Michael Vickery (1994), however, has questioned this political turmoil in the eighth century and the subsequent split into "Land" and "Water Zhenla" after Javavarman I's death. He says that if it did exist "it was not the type of division that has traditionally been postulated," and he strongly believes that Cambodia was in fact at peace during the last century of the pre-Angkorian period (1994: 209-210). It appears that northern parts of the Khmer realm preserved indeed a political autonomy for decades. It was certainly the case for Sambupura in the Kratie-Sambor region (Vickery 1998: 379-393), and was likely the same a few hundred kilometres further upstream in Savannakhet province, and in the Mun, the Se Kong and the Se Don valleys in modern-day Thailand and Laos.<sup>7</sup> At any rate, the intensity of creative activities was probably not much affected by the "political turmoil" as shown by the number of monuments built until the advent of Jayavarman II, in 802, as the first king of the Angkorian era (Boisselier 1968; Bénisti 1971).

#### The Inscriptions

We have drawn attention to the specific features of the pre-Angkorian inscriptions in the Mun basin and the questions raised by them. As for Champassak province, it offers a high number of epigraphic sources relative to its territory, along with an impression of historical continuity. I have already pointed out above that it was in the ancient city of Wat Phu that the famous Wat Luang Kau inscription (K. 365) was found [Figure 9]. Its text refers in particular to the consecration of a great pilgrimage site (mahātīrtha) named Kuruksetra. Another inscribed stele (K. 477), very large in size, has been discovered in the early twentieth century in the same area (Parmentier 1913: 54, 56; Cœdès 1966: VIII, 154). It can be surmised, due to the resemblance in shape and the apparently archaic form of the script used, that it could also date back to the period of King Devānīka (fifth century). Unfortunately the text has eroded and become illegible. Two inscribed pedestals (K. 1173 and K. 1174) serving originally as a base for a stone bull were also found very close to the Wat Luang Kau (Jacques 1993). They had been ordered by Mahendravarman (circa late sixth, early seventh century) after his coronation and pay tribute to his father and his uncle in a territory where they may have reigned. These two bases were probably related to a nearby monument whose foundations were discovered in 1993 (Santoni & Souksavatdy 1999: 190). A third Mahendravarman inscription has been located on the left bank of the Mekong at Phu Lakkhon (K. 366), almost exactly opposite the confluence with the Mun [Figure 10], about 70 kilometres upstream of Wat Phu (Barth 1903). None of the sixteen inscriptions now assigned to this ruler indicates that his "kingdom" extended downstream from the Khone falls and we can assume that the middle Mekong valley was the territory he preferred.<sup>8</sup> As for his son Iśānavarman I (r. ca 612?-637?), he seemingly did not leave any inscriptions in Laos or northward of the Dangrek range, perhaps because he was busy consolidating his power westward



and southward from Sambor Prei Kuk. Jayavarman I (r. ca 655?-680?) came back to the Champassak region and committed himself to developing this territory, as testified in a few inscriptions (K. 367, K. 1197, K. 1201, K. 1224).<sup>9</sup> This may also have applied to his predecessor, Bhavavarman II (r. ca 637?-655?), as both are mentioned together in a rock inscription near Wat Phu attributable to a royal servant (K. 1059).<sup>10</sup> At least eight other inscriptions prior to the ninth century have been found in the same area.

No ancient inscriptions have been found so far in Attopeu province, although it can be assumed that the region has played a major role in the regional network of communication. It was reported to Aymonier (1901: 173) at the end of the nineteenth century that an ancient stele in Ban Sok had slipped into the Se Kong. It was never recovered. A local resident who was recently asked by the present author about the Se Su site mentioned the existence of an inscription but the information was too vague to spot the object. Unearthing the large sandstone slabs that are partially buried in this site, however, is still a desideratum.

Savannakhet province, in which the presence of major ancient sanctuaries has also been established, has recently revealed some epigraphic documents of great interest. A large base on which a line in pre-Angkorian characters dating back to about the eighth century has been engraved can be seen among other sandstone blocks in Ban Na Khu, a site in ruins; the Sanskrit text is too damaged and does not allow accurate deciphering, but it is probably the expression of an offering involving a king (nrpa).<sup>11</sup> Three inscriptions have been identified in Nong Hua Thong on the edge of silver plates and bowl belonging to a "treasure hoard" unearthed in 2008. According to Claude Jacques (pers. comm.), one of these inscriptions (K. 1264), written in Sanskrit, refers to a person who donated land, slaves, cows and money to ensure Siva worship [Figure 11]. It appears on palaeographic ground to date from the eighth century. The other two (K. 1262 and K. 1263), which are short donative formulas in Khmer, have been engraved using a script that probably dates back to the ninth century. It is then necessary to move up to the Vientiane plain to find inscriptions prior to the fourteenth century, but these are related to the Mon culture and the Angkorian period (Lorrillard 2013b).

# **Architectural Decoration**

The lintels – and to some extent the colonettes and low-relief brick decoration representing miniature edifices (also called "flying palaces")

Figure 11: Inscription on a sitver plate (K. 1264), Nong Hua Thong, Savannakhet province, Laos [Photograph courtesy of Viengkeo Souksavatdy].



Figure 12: Lintel from Ban Sakhae, Attopeu province, Laos [Photograph by Michel Lorrillard].



Figure 13: Lintel 1 from Upmung Se Su site (now in Ban Fang Daeng), Attopeu province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Laos 21928, dated 1903].



Figure 14: Lintel 2 from Upmung Se Su site (lost), Attopeu province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Laos 21927, dated 1903].

- are the only architectural components that make it possible to assign a date with reasonable accuracy to the pre-Angkorian sanctuaries. For a long time, just seven lintels were the only decorative pieces mentioned in the studies on early art history in Laos, and comments were very brief.

The first three were found in Attopeu province in the early twentieth century and did not attract much attention (Anonymous 1903: 141-143). Recent surveys have shown that two of them still exist. The lintel found in Ban Sakhae [Figure 12], with its three pieces now glued together with cement, was made in "vegetal" style that developed in the setting of the Kompong Preah style during the eighth century (Le Bonheur 1995: 78). Two more lintels have been found 20 kilometres to the south on the banks of the Se Su (see *supra*). The first one also displays the Kompong Preah style [Figure 13]; however, because of the large central figure of Garuda, it has a very special character whose model may be sought in Campā (Le Bonheur 1995: 78-79; Boisselier 1968: 130). The second one, which seems to have disappeared [Figure 14], is related to a sub-category of the Prei Kmeng style (Le Bonheur 1995: 77), possibly a late form that can be dated to the second half of the seventh century.

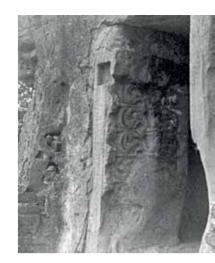


Figure 15: Lintel/door jamb from That Phon, Savannakhet province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Parmentier, PAR00564, dated 1911].

Parmentier referred in 1927 (233-234) to two other lintels found in Savannakhet province; however, they were never mentioned thereafter, except briefly in his posthumous work on Lao art (1988: 148,153). The lintel of That Phon is hardly visible because it has been re-used in ancient times as a door jamb of the sanctuary **[Figure 15]** and partly disappeared in a layer of concrete cast to make a threshold step behind a heavy wooden door that usually remains closed. Due to its vegetal decoration, it undeniably belongs to the Kompong Preah style (eighth century). The second lintel, of which a fragment was still visible in the early twentieth century in That In Hang has now disappeared. Parmentier, who left a picture of it **[Figure 16]**, suggested that it should be assigned to the Sambor Prei Kuk style – although the presence of a *makara* cannot be established – and therefore assessed it as a model that could be dated from the mid-seventh century.

The other two lintels that have already been mentioned in previous studies originate from the province of Champassak. The first one, discovered in Huei Tomo, was described by Parmentier (1927: 231) as "a tangle of foliage made in a spirit of fun, typical of the primitive Khmer art style with capitals" [Figure 17]. It also belongs to the Kompong Preah style and is reminiscent of some eighth-century lintels found in Cambodia, for example in Ak Yum (cf. Boisselier 1968: fig. 20). The second lintel was brought to the attention of Mireille Bénisti (1974: 154-155) with a photograph that Jean Filliozat had taken in 1970 in the old city of Wat Phu, perhaps after uncontrolled excavation work





Figure 16: Fragment of lintel from That In Hang, Savannakhet province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Parmentier, PAR00474, dated 1911].

Figure 17: Lintel from Huei Tomo, Champassak province, Laos [Photograph courtesy of Bruno Bruguier, Cisark, ref 871\_Bruguier\_2009\_10].



Figure 18: Lintel (allegedly) from Huei Tomo, Pakse Museum, Champassak province, Laos [Photograph by Michel Lorrillard].



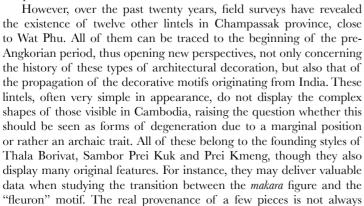
Figure 19: Lintel from Veun Kaen, Pakse Museum, Champassak province, Laos [Photograph by Michel Lorrillard].



Figure 20: Colonettes from Wat Kaeng Toi, Ubon Ratchathani National Museum, Thailand [Photograph by Michel Lorrillard].

Figure 21: Silver mitred Vișnu head (lost), found near Wat Phu, Champassak province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Giteau, GITM01783, dated 1969].

had led to the unearthing of the item. Bénisti considered it evidence that may be essential for a better understanding of the development of pre-Angkorian style. Because of its heterogeneous character, this lintel may be assessed as a transitional model which, according to the standards of Thala Borivat, introduced innovations that were subsequently maintained and developed into the Sambor standards. Bénisti concluded finally that the Champassak lintel was not sufficient evidence to deliver a final opinion on this issue, for it was stylistically unique at the time she wrote.



certain. For example, a nice lintel in Sambor Preah Kuk style **[Figure 18]** is also reported to come from Huei Tomo, Pathumphon district, but it is not found in Parmentier's list. The Prei Kmeng style is represented by an elaborate lintel from Veun Kaen **[Figure 19]**, about 50 kilometres downstream to Wat Phu – and in an even more surprising manner by an exceptional lintel that was found in Thailand in Phibun Mangsahan district, Ubon Ratchathani province, in the lower basin of the Mun, at the same place as a lintel in Thala Borivat style (Le Bonheur 1995: 79-80). Other decorated pieces discovered in the vicinity (Dhida 2536: 93), such as colonettes in Prei Kmeng style **[Figure 20]** in Wat Kaeng Toi (Don Mot Daeng district, Ubon Ratchathani province) and a beautiful decorated base found in Don Mueang Toei (Kham Khuean Kaeo district, Yasothon province) show that this region was far from being isolated from the sculpture workshops where innovative stylistic forms emerged from the seventh century onwards.

# The Statuary

It is much too early to submit a comprehensive assessment about the traditions applying to the sculptures that developed in southern Laos as the near totality of the artefacts have been discovered only in and around Wat Phu and the process of inventorying local museum collections has just started.

Christine Hawixbrock (2013) has provided evidence of the wealth and variety of the collections at the Wat Phu Museum, with special emphasis on the significant number of sculptures dating back to the pre-Angkorian era and the very ancient character of some of them. Saiva sculpture is represented mostly by a large number of *lingas* that were found in various scattered places, and some bull statues representing Siva's mount. However, no human representation of the god has been discovered to date, including in the specific form of Harihara that is so well represented in pre-Angkor Cambodia (Lavy 2003). Vaisnaiva sculpture seems to have been much favoured in Wat Phu. Several figures of Visnu have been found, including a magnificent silver head [Figure 21], now lost;<sup>12</sup> these are either standing, with a long *dhotī* or a short sampot, or riding Garuda who sometimes appears separately. To these we should perhaps add a large sandstone *cakra* and a stone image of a mitred female divinity [Figure 22].<sup>13</sup> The wealth of ancient Buddhist sculpture at Wat Phu has been the cause of an even greater surprise. It displays features seemingly betraying not only relationships with Dvāravatī art - with for instance a large pendantlegged fragment of a seated Buddha<sup>14</sup> [Figure 23] – but also specific links with images from southern Vietnam and Angkor Borei (Funan), especially regarding the head features [Figure 24].<sup>15</sup> Recent excavation work and surveys have also revealed the existence of at least two ancient sanctuaries inside and in the close vicinity of the old city of Wat Phu that seem to have been devoted to Buddha worship, namely Nong Vienne (Santoni & Hawixbrock 1998: 388) and Wat Lakhon in Champassak town.

Further to the north, in Savannakhet province, Parmentier (1927: 235) already mentioned the existence of a statue associated with That In Hang tower, but its unexpected style led him to write "that it cannot be assigned with certainty to primitive Khmer art." This



Figure 22: Mitred female divinity, Wat Phu Museum, Champassak province, Laos [Photograph courtesy of Stanislas Fradelizi, DPV].



Figure 23: Pendant-legged fragment of seated Buddha, Wat Phu Museum, Champassak province, Laos [Photograph by Michel Lorrillard].



Figure 24: Buddha head from Wat Lakhon, Wat Phu Museum, Champassak province, Laos [Photograph courtesy of Stanislas Fradelizi, DPV].



Figure 25: Brahmanical (?) image, That In Hang, Savannakhet province, Laos [Photograph courtesy of EFEO photographic archives, Fonds Parmentier, PAR00481, dated 1911].

statue broken in two pieces corresponding to the head and the torso has sunk into oblivion since it is now secluded in the pre-Angkorian sanctuary. It is perhaps one of the early rare human representations of Siva, whose *jatāmukuta* is composed on the front side of a chignon with three horizontal plaits [Figure 25]. However, the poor condition of the figure and the advanced deterioration of the stone make it impossible to spot details - e.g. a third eye or the moon crescent - to validate this identification.<sup>16</sup> Hindu or Brahmanical iconography is illustrated in the same area by the three decorated metal plates belonging to the treasure found in 2008 in Nong Hua Thong [Figure 26]. These might date back to the eighth century, just like one of the inscriptions engraved on a plate belonging to the same treasure. They may be associated with the rather similar plates reportedly found around Si Thep in Thailand and currently housed at the Norton Simon Museum in California (Woodward 2003: 90). In a recent conference paper (Lorrillard 2012), I have suggested that an overland road may have existed between Si Thep and Nong Hua Thong via Mueang Fa Daet and Kantharawichai to explain such artistic similarities between the two areas.

# Conclusion

The number and variety of historical sites dating back to the first millennium CE that have been identified primarily in southern and central Laos but also in their neighbouring regions of modern-day Thailand and Cambodia lead to revisiting the current views about both the role of this continental region in the so-called "Indianisation process" and the movements that marked the dawn of Khmer history. The most recent findings confirm the importance of the Wat Phu region in the early period, and also the existence of a link between its earliest archaeological remains and those which were found much further downstream in Cambodia and southern Vietnam, thus encroaching on the coastal cultural area of Funan.

The Mekong has to a large extent facilitated the first wave that disseminated the ideas and practices from India. Further upstream from Wat Phu, the major tributaries on the right and left banks have contributed to the maintenance of this dissemination up to a certain limit after which the overland routes took over this function. It is now widely recognised that the extraordinary development of the Khmer and Mon cultures from the first millennium CE is to be assigned to the major impact of Indic beliefs and customs on the already wellorganised "inland" protohistoric communities. The middle Mekong valley, at a time when Khmer history was apparently rather turbulent (eighth century), certainly continued to play a crucial role, due in particular to the transverse routes that at all times served to connect the western and eastern parts of the Indochinese Peninsula. If, as inferred by Chinese annals and the paucity of inscriptions, a clear distinction between "Land" and "Water Zhenla" is to be given some credit for the period just before the emergence of the Angkorian empire, the territories extending upstream from the Khone falls, i.e. north of present-day Cambodia, certainly offers a rich potential for future archaeological research and should spur more collaborative works amongst scholars of Laos, Thailand and Cambodia.

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Figure 26: Brahmanical image on metal plate, Nong Hua Thong, Savannakhet province, Laos [Photograph courtesy of Viengkeo Souksavatdy].

# Endnotes

- This city is sometimes called, after Cœdès, "Śrestapura." A more appropriate name, according to the inscriptions, seems to be "Lingapura" or even "Kuruksetra."
- 2 Contributions in the Bulletin de l'École française d'Extrême-Orient (Lorrillard 2013a-b) provide more detailed data in French on all the discovered sites. A paper presented at the 14th EurASEAA Conference also dealt with specific issues concerning the ancient Mon Buddhist culture in Laos (Lorrillard 2012).
- 3 This type of iconography is rare. For a rather similar artefact dating back to second half of the seventh century and found in a nearby area (Sambor), see Baptiste & Zéphir (2008: 48).
- 4 Concerning Tham Pet Thong, Cœdès (1966: 160) refers both to K. 513 and K. 514, dating back to the same period, but the texts are short and not very informative. A third inscription found on the same site has been edited and published (FAD 2529: I, 153-154). This inscription mentions the name Citrasena, so that the total number of known inscriptions commissioned by this prince/ king could to date be seventeen.
- 5 Personal communications with Arlo Griffiths and Dominic Goodall (EFEO rubbing no. 1350). The name was read by Cha-em Kaeoklai as "Mahipativarman" (FAD 2529: I, 286). Two kings named Nrpendrādhipativarman (father

and son?) appear in another inscription (K. 388) from Nakhon Ratchasima province, some 300 kilometres away to the west, which has been variably attributed from the sixth to the ninth century CE.

- 6 This pre-Angkorian inscription mentions a genealogy of kings who reigned in Sańkhapūra, i.e. Pravarasena, Kroñcabahu and Dharmasena; no link could be established with the rulers of Cambodia (Jacques 1995: 43).
- 7 The specific artefacts found in these areas are sufficient to raise new questions about various entities which are mentioned in Chinese annals for the eighth century. On this issue, see Woodward (2010).
- 8 The two documents found in Cambodia in Chroy Ampil (K. 116) and Thma Krê (K. 122) in Kratie province, both sites being close to the banks of the Mekong, just mention Citrasena's princely name. On the basis of more recent inscriptions found in Cambodia (K. 149, K. 151, and K. 153) in which Mahendravarman is mentioned together with his brother and his son, it could be extrapolated and claimed that this king had reigned on regions such as Sambor Prei Kuk.
- 9 Santoni & Hawixbrock (1999: 396), according to information provided by Jacques.
- 10 The chronology of pre-Angkorian rulers is not firm. The dates of the reigns which are given here rather follow Vickery's appreciations (1998).

- 11 Personal communication with Dominic Goodall.
- 12 Madeleine Giteau (2001: 9, 64) dates this head to the beginning of the eighth century.
- 13 Christine Hawixbrock (forthcoming) and Valérie Zaleski (2012: 28) identify it as a representation of goddess Śrī, but John Guy (unpublished report) recognised in this sculpture the goddess Uma (Śiva's wife), an identification which is reported on the Museum caption. Paul Lavy (pers. comm.) also suggests a Saiva affiliation and proposes more precisely an identification with Durga.
- 14 On this iconography, see Revire (2011).

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- 16 Paul Lavy (pers. comm.) shares Parmentier's doubts about the Khmer origin of this image and suggests an affiliation with Cham sculpture, especially Khuong My and Tra Kieu styles of the tenth century. The possible artistic influences of Campā in this part of the middle Mekong valley, especially regarding the site of That Phanom, has already been pointed out by Boisselier (1965: 153), Woodward (2003: 133-135) and Piriva (2012: 122).

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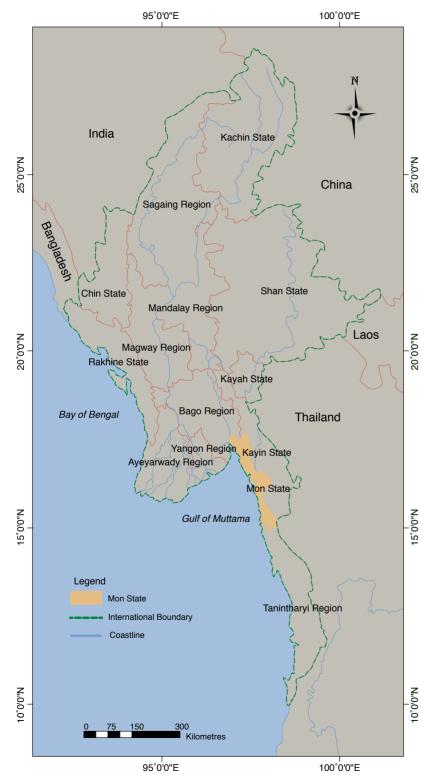
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# Sampanago: "City of Serpents" and Muttama (Martaban)

ELIZABETH H. MOORE & SAN WIN

# Introduction

The discourse between riverine and maritime sites in lower Myanmar during the late first and early second millennium CE has received little attention, with literature focusing on single sites and their dependence upon upper Myanmar [Map 1]. However, as we explain in this essay, it was the variety and fluctuations between a series of sites that sustained the economic and religious significance of this area.

Our argument is epitomised by the archaeology and chronicles of Sampanago (Campānāga) or "City of Serpents" (16°40'5.91"N, 97°35'46.90"E) **[Figure 1]**. Artefacts recovered inside and around Sampanago, 15 kilometres north of Muttama (Martaban, 16°32'13.92"N, 97°36'6.67"E), date occupation to *circa* the seventh to the eighteenth century. This longevity is supported by five successive

toponymns situating Sampanago with a network of sacred and mercantile sites on the lower reaches of the Thanlwin (Salween) river **[Map 2]**. The artefacts and continual "naming" are concentrated along a relatively short span of the Thanlwin, suggesting that "Muttama" did not, as previously suggested, spread all along the coast from the Thanlwin to the Isthmus of Kra under Sukhothai and Ayutthaya control from the late thirteenth-sixteenth century (Gutman 2001: 111).

The names, such as Muttama-Dhañyawaddy and Sampanago-Lakunbyin, instead reflect a distribution of loosely linked towns over a 45 kilometre stretch of the river from Muttama to Pa-an (Hpa-an, 16°52'45.42"N, 97°38'28.77"E) and thence inland to Lampang (18°17'25.54"N, 99°30'37.43"E) and Phrae in Thailand (18° 9'0.75"N, 100° 9'12.67"E). We compare this riverine-maritime configuration to the Lampang-Phrae and U Thong-Nakhon Pathom-Khu Bua networks to highlight the synergy of maritime, riverine and overland interchange between lower Myanmar and Thailand (Dhida 1999: 46).

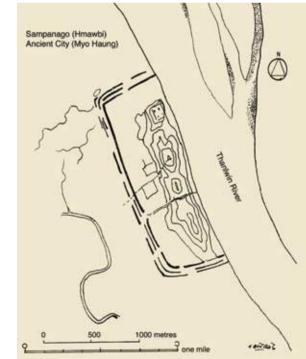
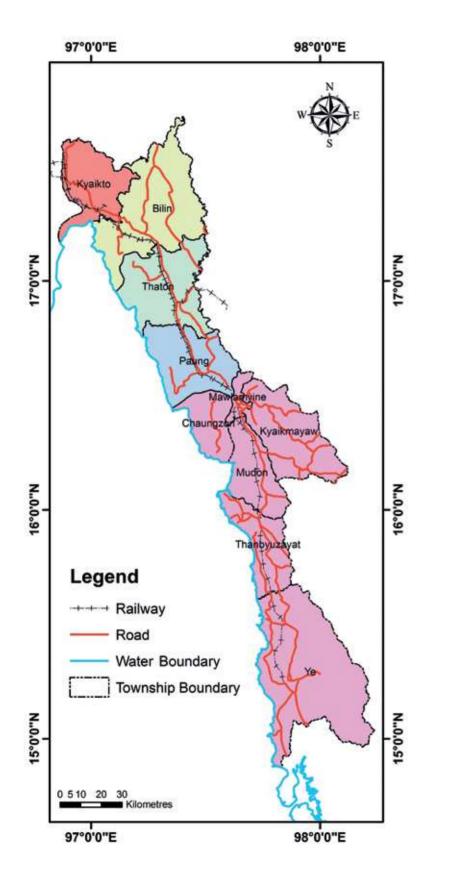


Figure 1: Walled site of Sampanago, aerial view [Drawing courtesy of Aung Myint 2542: 256].

Map 1: Overall map of Myanmar with the location of Mon state [Adapted from drawing courtesy of Thazin Kaing].



# **Five River Confluence: Geographical Context**

The ecological niche of Sampanago, called Puñjaluin in Mon is striking and a vital factor in understanding its longevity. The site is safely guarded from the drop into the Gulf of Muttama (Martaban), adjacent to the confluence of the Thanlwin, Attaran, Jaing, Dontami and Hlaingbwe rivers. The area is hilly, pocketed with swamp and flood areas. River meanders are common along this lower stretch of the Thanlwin with isolated limestone hills and caverns scattered along the ravine such as Kaw gun, Yathebyan, Pa-gat and Bingyi caves.

The surrounding hills are a continuation from those at Thaton, which stretch southward into two ranges **[Map 3]**. The eastern chain stretches from north to south-southeast to the confluence of Thanlwin and Dontami rivers at Sampanago. The southern more westerly range starts from Zimkyaik (Zingyaik) just south of Thaton and Kalama taung, summits with an average height of 914 metres. It continues south as the "Martaban hills," connecting to the Taungnyo hills of Mawlamyaing (Moulmein) and the Ye area opposite Muttama. The end of this chain is rocky terrain called Muh Tamo' in Mon (Muttama in Myanmar language) where chronicles record that King Wareru (r. 1287-96) founded the city Ratanapura in 1287.

Between two ranges is the alluvium of the lower Thanlwin valley with cultivation of various crops in a region of stream beds, meanders and islands.<sup>1</sup> As these details highlight, Sampanago was part of a vital nexus near to egress into the bay. The area was fertile, and not being directly on the tip of the landmass. "Kin Ywa" or revenue village, 3 kilometres upriver from the walled site, was probably a fortified way station for goods prior to shipment by sea or overland.

# Walled Site Description

Sampanago is isolated, with no tarmac roads or railways near and around the city. The population consists of a small village at the west foot of the central hill, Dhat taw ywa, inhabited by Kayin (Karen) people but the rest of the site is covered with thick forest and bamboo glades. It is 19 kilometres east of Paung, the township headquarters, 38 kilometres south from Thaton, the district headquarters and 22 kilometres north from the capital of Mon state, Mawlamyaing. The site is easily accessible by boat from Mawlamyaing and Pa-an, the capital city of Kayin state, 23 kilometres north along the Thanlwin. It can also be reached overland via village tracks along the west bank of the river. The nearest sizeable town is Natmaw village, a ferry and local administration head-quarters 3.2 kilometres north at the confluence of Thanlwin and Dontami rivers.

The east wall of Sampanago is the Thanlwin (Salween) river with newly deposited sandbanks on the opposite side indicating erosion of the west bank. The walled site, first documented by Aung Myint from aerial photography, remains well preserved (2542: 255-261). Three ramparts (15-25 metres wide, 2-4 metres high) and moats enclose the site, best preserved on the inner wall on the southwest side **[Figure 2]**. The wall measures 620 metres in length on the north, 2000 metres on the west and 500 metres on the south (126 hectares). A long earthen hill on the east side near the river is said by villagers to be an ancient reclining

**Opposite Map 2:** Mon state and Ye township [Drawing courtesy of Thazin Kaing].



Figure 2: Moat on southwest of site [Photograph by San Win].

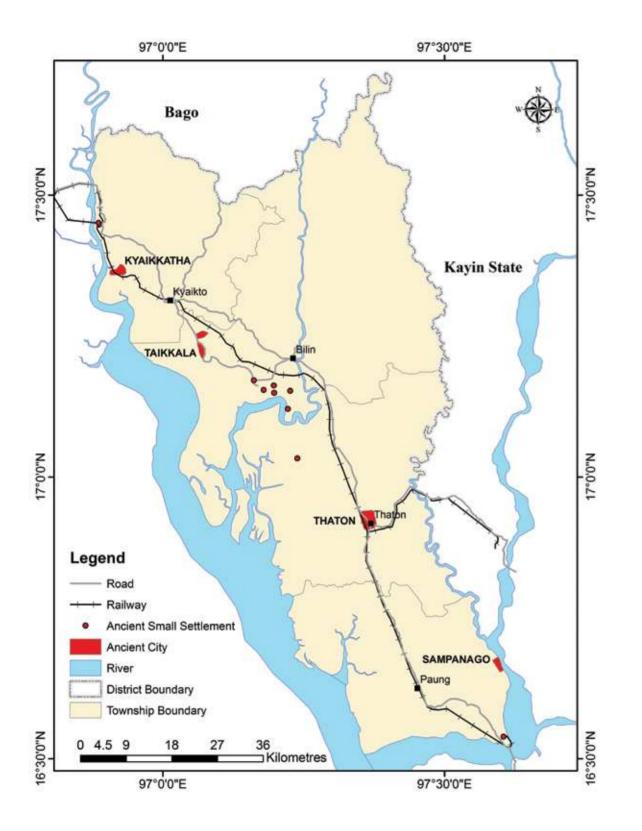




image of the Buddha, with scattered laterite carvings around the site including a seated image of the Buddha (66 cm. height). The earthen and laterite ramparts are mixed with large (46 x 23 x 8 cm.) burnt bricks, including a number with finger-markings (Berliet 2011: 85; San Win 2530 and 2556) [Figure 3]. There are also brick reinforcements of later historical periods. Notably, however, large finger-marked bricks pointing to first millennium CE habitation have been found *in situ* throughout this area, including Kin Ywa to the north and Kyauksarit to the west.

The use of the moats to control water to flooded rice fields is seen on the southwest of the site where cultivation of *mayin* (summer paddy) has flattened the enclosing walls. The river comes close to the foot of the small range (ca 2.4 km.) within the walls that runs parallel to the river. This accounts for the slight widening of the site at points and the obtuse rounded angle of the southwest corner with possible remnants of a walled guard post extending to the southwest. The rectangular site is divided by a partition wall crossing from east to west two-thirds of the distance from the north to the south that may mark the limit of the original site subsequently extended south.

# **Ground Survey**

The elevated area traditionally called the "palace site" and principal  $st\bar{u}pa$  are in the northern part on a flattened area of about 0.4 hectares on the summit of the hill (40 metres) **[Figure 4]**. Six ruined  $st\bar{u}pas$  were found on the summit during 2012 survey of the site, the largest, Dhat taw hpaya (relic  $st\bar{u}pa$ ) having been repaired in 2000 during one of the author's previous trips to the site. From one  $st\bar{u}pa$  on the southern hill of the complex under repair, a baked tablet (*mye-bon-hpaya* or "terracotta earth sacred image") (7.6 x 5 cm.) was recovered from

**Opposite Map 3:** Ancient city sites mentioned in text [Drawing courtesy of Thazin Kaing].



*Figure 3:* Dhat taw hpaya or stūpa, "Palace" site within the walled site [Photograph by San Win].

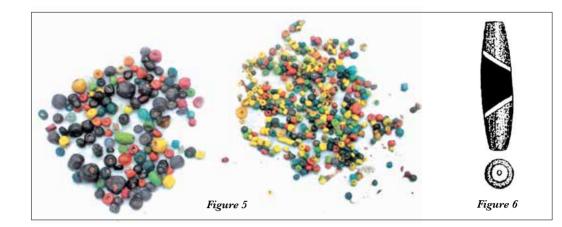


Figure 4: Finger-marked bricks from area of Sampanago [Photograph by San Win].

a relic chamber that had been destroyed by treasure hunters.<sup>2</sup> The tablet was broken in the top portion by the looters, showing a seated image of the Buddha on the front while on the back a name "Shyan Mi" (*shan mi*) was inscribed, probably a monk who donated the tablet. Although only one tablet was found in the ruined  $st\bar{u}pa$ , this type of tablet is seen in large numbers on the walls of Kaw gun cave where they are dated to the fifteenth to seventeenth century. The script on the back is Middle Mon probably dating to the fifteenth-sixteenth century era of the Muttama 32 *myos* or cities (Aye Kyaw 2514: 141-145; Shorto 1963).

At the foot of the hills, where the plains spread to the west walls, are the ledawya or royal rice fields. A number of beads dated to the early to middle first millennium CE were collected by one of the authors from surface survey, including barrels, short barrels, cylindrical ring and cylindrical examples made of bone, carnelian, agate and amber. The colours ranged from orange-yellow, orange and black, brown to yellow, bluish, and brown banded. Some had evenly spaced black and white line decorations although others were plain [Figure 5]. One large barrelshaped bead, closely comparable to a bead from U Thong, had a black mid-section and orange ends (45 mm. in length, 12 mm. at mid-diameter with an end diameter of 6 mm.) (Dhida 1999: 99; Moore & Aung Myint 1993: fig. 58) [Figure 6]. Another was zoomorphic, a carnelian lion in a jumping or crouched position in orange colour about 40 mm. long with a hole penetrating the neck and tail. A villager in this area, U Chit Aye, reported recovering iron objects and ten stone beads at a depth of 1.8 metres from a well in front of his house, which he gave to the township office in Paung township. U Khin Shwe from this office showed one of the authors the beads but these were unfortunately lost during 1988 riots in Paung township. Similar beads are kept at the Ministry of Culture Museum in Mawlamvaing, some recently looted examples, and comparable from upper Myanmar include sites such as Maingmaw (Pinle), Taungdwingyi, Halin, Śrīksetra and Beikthano. Other parallels can be seen in beads from central and southern Thailand, including Thung Tuek on the west coast (Boonvarit & Rarai 2552).

A significant number of pottery finds were also made during surface survey. These include an intact jar, 40 cm. high with a tall neck, flaring body and flat base (Naw Yuzana Win 2009) [Figure 7]. While the rim of the jar has broken, in form, decoration and finish, it closely recalls an unglazed stoneware baluster jar (52 cm.) dated to the fourteenth to fifteenth century Sukhothai or Ayutthaya period from the Ban Bang Pun kilns, Suphan Buri province, western-central Thailand kept in the Freer-Sackler collection.3 Larger glazed "Martaban" jars have been found in nearby regions, one over a metre in height, with its glaze well preserved, and recent documentation of a road cut exposing numerous vessels and an associated kiln structure [Figures 8-9]. Other surface finds from survey in 2012, yielded a mixture of similar ironware and thinner, red-orange pottery incised with curvilinear wave and V-shaped designs [Figure 10]. These recall Dvāravatī wares from Khu Mueang, Sing Buri province (Phasook 2528: figs 16, 17, 20). The dating of a terracotta model of an elephant, however, remains open to discussion [Figure 11]. The 6 cm. model, decorated with rows small circular and tear-drop shaped stamped motifs on the back and flank recalls similar zoomorphic figures documented at Thung Tuek and in the



U Thong National Museum where elephants of comparable size decorate the top of covers or lids for pots (Boonyarit & Rarai 2552; Podjanok Kanjanajuntorn, pers. comm.).

# Comparison with Other Walled Sites

# Thailand

The form of Sampanago is similar to the Dvāravatī sites of Khu Bua (13°29'30.72"N, 99°49'56.36"E) and U Thong (14°22'32.00"N, 99°53'32.00"E) although neither is on a river and neither encloses substantial upland area (Dhida 1999: 61, 96-97). However, small artefacts such as beads and the elephant terracotta model mentioned above are common at Khu Bua and U Thong, with links between the brick architecture of these sites to structures such as Winka near Sampanago (Moore & San Win 2007). As discussed below, there are historical links to the later cities of Lampang and Phrae although the moats, walls and topography again differ in enclosing a flat rather than hilly area.

The strongest comparisons, however, are with other sites in lower Myanmar which like Sampanago were designed to cope with the strong variations in the seasonal monsoons. These include the closely distributed walled sites of Muttama, Thaton, Don wun, Winka, Ayetthama, and Bago (Pegu).

# Muttama

Muttama (Martaban, 97 hectares) is located on the east part of the 152 metre high Martaban range mentioned earlier. The town site faces the river on the east, while the west wall runs along the hillocks with Kyaikphyinku "pagoda" on the south-west. The only visible portion of the wall is that running from the mountain to the river on the north, today known as the Sezon quarter. However, on the northwest the corner is visible and Kyaik Kalunpun *stūpa* sits on the southwest edge of a 0.5 kilometre long oval-shaped rampart. While Muttama is widely known for trans-shipping of large "Martaban" glazed jars, the origins of the city

**Figure 5:** Recent bead finds at Mupun, Mawlamyaing/Moulmein [Photograph by San Win].

Figure 6: Barrel bead from Sampanago, black mid-section with orange ends separated from middle section by a white line; 45 mm. length, mid-diameter 12 mm., end diameter 6 mm. [After Moore & Aung Myint 1993; fig 58].



Figure 7: Baluster jar with line decorations on shoulder from the site compared with 14th to 15th century jar from central Thailand [Photograph courtesy of Yuzana Win].



Figure 9: Section of road cut near Mawlamyaing showing in situ vessels [Photograph courtesy of Thazin Kaing].



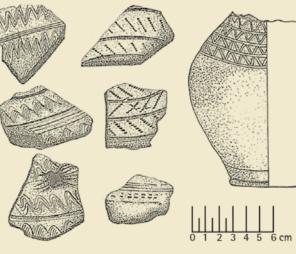


Figure 8: Glazed jar found at In-yar, Paw-kyu-kone, near Mawlamyaing [Photograph courtesy of Nan Kyi Kyi Kyaing].

Figure 10: Sherds and pot [Drawing by San Win].

are hazy. It has also been proposed that Sampanago was the Kalaśapura or "City of Pots" referred to in a seventh century CE Sanskrit inscription found at Śrīkṣetra. References to Kalaśapura and its king, Śrī Parameśvara, hint at a southern port for the Pyu (Gutman 2001: 109, n. 1).

# Thaton

Thaton (286 ha., 16°54'30.46"N, 97°22'8.16"E) is laid out on the escarpment of laterite high ground or *myenigon*,<sup>4</sup> red-earth soil which is slightly elevated from the surrounding rice fields. The site naturally fortified on the east by the 2.4 kilometre long Myathabaik hills with the lowland swamp of Leik-in (Tortoise-lake) on the west, perhaps remnants of the Old Thaton harbour. This may have connected with the Sa Chaung or Thaton river, an old canal parallel to the railway which extends 16 kilometres to the northwest. Numerous small town sites such as Hsin Phyu Kyun (16°56'16.56"N, 97°20'29.14"E), Mayangon (16°59'7.26"N, 97°15'6.71"E), Seik Kyun (17° 0'1.66"N, 97°14'47.10"E), Kadaikgyi (17° 2'2.59"N, 97°14'20.40"E) and Kadaikgaleh (17° 3'18.26"N, 97°13'49.18"E) are located on isolated mounds of laterite high ground 80-160 metres above the surrounding rice fields on the west of this canal with artefacts such as pottery, beads and *mye-bon-hpaya* tablets dating to the first millennium CE.



Don wun (17° 8'35.26"N, 97°16'30.09"E), 16 kilometres north of Thaton, dates to the fifteenth-sixteenth century Hanthawaddy period of the "32 *myos*" or cities, but the site is linked to Thaton and Muttama, referred to in the *Chronicle of the Mons* as "Wun" and the trader Makuta who befriended the king of Sukhothai and eventually became Wariraw of Muttama ("Rock Slab City") (Tun Aung Chain 2010: 32-46).

# **Bago and Other Sites**

Similar artefacts have been recovered in Taikkala (Ayetthama, 17°14'39.48"N, 97° 3'44.24"E and Winka, 17°13'34.42"N, 97° 4'16.07"E), Kyaikkatha (269 ha.), another of the 32 *myos* (satellite towns) of the sixteenth century kingdom of Hanthawaddy, Sittaung (72 ha., Kyaikkalun Pon Hpaya) and its sentinel site, Kawhtin (16 ha.).

The outer wall of Bago (Ussā-Hanthawaddy) (17°20'2.97"N, 96°30'42.38"E, 120 ha.) located adjacent to the northeast wall of Bayinnaung's sixteenth century city, encloses a hillock approximately 1,500 x 800 metres called Hinthagon ("resting place of goose") [Figure 12]. The length of the hillock is similar to that at Sampanago but its height, at 28 metres, is only 10 metres above the surrounding terrain while that at Sampanago, 39 metres is twice that of the surrounding area. It is however, the only site paralleling the unusual topography of Sampanago. The Bago "pagoda," the Shwemawdaw *Thamaing* or chronicle history dates the city to 825 CE with a line of seventeen kings linked to Sampanago starting from Thamala, Wimala and Assakumma.<sup>5</sup>



**Figure 11:** Model of elephant (6 cm.) from Sampanago [Photograph by San Win].



# Figure 12: The near square 16th century palace enclosure at Bago with the remains of the earlier oblong city of Ussā-Hanthawaddy to the east [Photograph courtesy of Williams-Hunt Collection (SOAS); geo-referenced by S. Lertlum].

# **Site Distribution**

In short, Sampanago was part of a network of walled sites extending for some 100 kilometres from northwest to southeast, their form primarily determined by the coastal region terrain between the Sittaung and Thanlwin rivers. Thaton, Hsin Phyu Kyun, Don wun and other sites parallel Sampanago's proximity to water transport routes.

Walled enclosures reflecting the lateritic landscape are seen throughout the area, including Kyaikkatha, Sittaung and Kadaikgyi while the construction of ramparts around a markedly elevated area is seen at Ussā-Bago. Within this network, sites of different sizes and shapes profile a distinct regional adaptation, fluctuating site hierarchy and chronology of at least the middle to late first millennium CE. Combining this archaeology and chronicle records, Sampanago may have been the successor of Thaton and immediate predecessor of Ussā-Bago. This is supported by the size of the site, as Sampanago-Lakunbyin (126 ha.) is larger than others of the Muttama 32 *myos* such as Wagaru (2,000 metres circumference) or Don wun and larger than Sittaung (72 ha.) although smaller than Kyaikkatha (369 ha.) and Thaton (259 ha.) with their well-developed central palace site.

The most viable context within which to understand the long chronology and multiple names referring to Sampanago, however, is that of an inter-linked trade and pilgrimage network linking this lower part of the Thanlwin both to the sea and overland to Thailand.

# **Origins of Sampanago**

The name "Sampanago" is thought to derive from the Pāli element "sampa" (*sappa*) (Htoke Sein 1978: 640). Pronounced as "thampa" in Myanmar, it is distinct from words such as *zabegji*, boa constrictor and *zabaoun*, python (Myanmar Language commission 1993: 103). At present, written references for Sampanago are limited in two chronicle tales, one of a *nāga*-queen, the mother of princes Thamala and Wimala, the founders of Bago and the other of a Khmer *nāga*-princess who comes to Bago. In both cases the accounts are understood here as not an actual reptile but reference to a local female lineage and fecundity, possibly associated with serpent veneration.

In the first of these, it is said that when King Theinnaginga was ruling in Dhañyawaddy (Old Muttama) he mated with a maiden, the queen, who was born from an egg laid by a female *nāga*. She gave birth to two sons, the twin brothers of Thamala and Wimala, founded Hanthawaddy city. Another traditional account holds that prince Assa, the successor of King Wimala at Bago (Ussā, Ussi)<sup>6</sup> was famed as a warrior in fighting with Indian merchant groups. His renown spread to Khmer regions and in due course, a Khmer princess of the same *nāga* race as prince Assa, came to Bago to be married to this prince (British Burma Gazetteer 1879; Tin Gyi 1931).

It has been argued that the Assa story is a later tale, but the relevance here is the repeated use of the *nāga* metaphor in relation to the Muttama-Sampanago and Bago (Aung-Thwin 2005: 94). Notably, the Sampanago name survived into the colonial era, mentioned as a deserted village circle (Tsampa-na-go) in the Martaban (Muttama) township, Amherst (Moulmein, Mawlamyaing) district. The location is correct for Sampanago, lying on the right bank of the Thanlwin (Salween) below the Bheng Laing or Dontami river with a population of 4,402 in 1877-78 being assessed for the British capitation tax for Rs. 4,327 and land revenue was Rs. 3,893 (British Burma Gazetteer 1879: II, 834). After that the village was deserted and the population shifted to nearby villages with only the name Sampanago remaining on the British One Inch map of Burma (No. 94, H, 10) between Nathmaw village in the north and Hmawbi in the south.

Written accounts combining Sampanago with "Lakunbyin" occur in 1783 and 1874 orders of King Bodawpaya (Badon), the *Muttama 32 myos sittan* (The Revenue Inquest of King Bodawpaya for Muttama *32 myos*) where one of the palm leaf manuscripts notes that:

[...] lakunbyin town being set up a palace (for kings), (it was called), "Sampanago-Lagwanprañ" and by the Mon they called it as "Lakunbyin," King Sitta ruled over it. (Yangon, National Library Palm-leaf manuscripts, no. 2272, "ku" leaf, back face; lines 8-9)

From citations such as these, we suggest that Sampanago and Lakunbyin refer to the same place, with the former being the original name and the latter an additional one. Further, as discussed below, the name "Lagwamprañ" or "Lakunbyin" recurs in the later alleged Mon migration of Haripuñjaya.

# **Origins of Lakunbyin**

The name "Lakunbyin" (Laganphen in Mon) is also given to a site near Hlegu in Bago with both possibly connected with the often-cited Mon migration from the Haripuñjaya Mon kingdom of Queen "Samadevi" (Cāmadevī) in the tenth or eleventh century (Woodward, this volume). This migration is best known from the *Cāmadevīvaṃsa*, a northern Thai chronicle written some time between 1410 and 1417 by a monk named Bodhiraṃsī, who noted as follows:

At that time the early tenth century the people of Haripuñjaya suffered from a widespread cholera epidemic [...] the remaining population of Haripuñjaya, in order to save their own lives, fled to a city named Sudhamma [Thaton] and settled there. The city of Haripuñjaya consequently fell into decline and was abandoned [...]. The king of Pukam [Bagan or Pagan] observing the masses of weak and starving people, was moved to pity and out of his compassion restored the city of Sudhamma for them to occupy. Unable to bear their suffering any longer, the people of Haripuñjaya left Sudhamma [Thaton] and went to Hamsavati [Bago or Pegu] [...] where they continued to live. At that time the king of Hamsavati seeing the [needs of the] people of Haripuñjaya, [...] gave them many necessities, including clothing, jewelry, paddy, rice, various salty and sour foods, and dwelling places. (Swearer & Sommai 1998: 105-106)

There are many ambiguities in this statement such as why the people left Thaton for Bago. However, while the account has been queried due to the later date of extant copies it is generally agreed that the migration came from the area of Lamphun, Lampang and Phrae in upper-central Thailand (Aung-Thwin 2005: 92).<sup>7</sup> Their route would have taken them across the Thanlwin at Dakwin near Pa-an and continued along the upper reaches of Bilin river and valley of the Yanzalin river that joins the Thanlwin near Myaing-gyi-ngu opposite Kamamaung in Kayin state. From there, they could easily reach Sampanago-Lakunbyin. Accepting the traditional occupation of Thaton by Aniruddha in 1057, we postulate that the city may have been governed by an appointee of Bagan [Pagan], mentioned in the legend of Queen Cāma as the "king of Pukam." The presence of a Bagan governor and depopulation from the occupation may have made Bago (Hamsavatī) a more secure and prosperous refuge for the Mons from Haripuñjaya:

The inhabitants of Haripuñjaya and of Hamsavati came to know and love each other. Even their languages were the same [...]. When the disease was brought under control those who want to return to Haripuñjaya departed and dwelt again in the city [...]. The people of Hamsavati, who still love their friends and relatives in Haripuñjaya often, visited them bearing many letters. (Swearer & Sommai 1998: 105-106)

In brief, the name Lakunbyin at Bago and Muttama (Thaton) may derive from this Mon migration from central Thailand with "lakun" recalling Lamphun and "byin" for Phrae. In any case, the name survived into later records, at times paired with Sampanago and at others mentioned as Lakunbyin. For example, in a royal order dated 10 February 1806, "[...] Yehtinbala, the servant of Sakaingmin, is appointed to be Myosa, Governor of Lakunbyin, in Muttama confederation" which suggests that Lakunbyin was a satellite town or in the revenue circle of Muttama.

In the *Muttama 32 myos sittan* revenue inquest of Bowdawpaya noted above, dated the eighth waxing day of Nattaw in 1145 (Myanmar Era = 1783 CE)<sup>8</sup> soon after he had ascended the throne on the fourteenth waning day of Tapotwe, Monday, in 1144 (1782 CE) the names of the 32 *myos* included Lakunbyin (Pinnya 2462-81: 28).<sup>9</sup> Lakunbyin appears again in Aye Kyaw's work (2514: 141-145), where he divided the Muttama region into two parts, west and east of the Thanlwin. Lakunbyin, although not exactly located, is included in the western group.

A different name is given in Nai Pan Hla's editing of the *Rajadhiraj Ayedawpun Kyan*, where he notes it as "Lagwanbyin" in Myanmar and "Dun Laganphen" in Mon. The importance of the site in this work was its strategic position in the connections between Muttama and Zimme (Chiang Mai) and Bago (Hanthawaddy or Haṃsavatī) in the fourteenth century. Three years after the accession of King Banya-Oo (r. 1348-1383), father of Rajādhiraj, the rebellion of Saw-ai-dit and Baw-kray broke out in Don wun. When the rebels were defeated they fled to Chiang Mai for asylum but returned to attack Muttama with the help of Chiang Mai. Although the attack failed, many lesser towns along the way to Muttama such as Sittaung, Taikkala, Don wun, Yinnyain and Lakunbyin were destroyed by the rebels (Nai Pan Hla 2541: 48-49). Taking this order in its geographical context, Lakunbyin was not far from Muttama.

Again, fifteen years into Banya-Oo's Muttama reign another rebellion broke out. The king, in distress because of the death of his white elephant, went up to the forest in search of good elephants, taking his ministers, armed men and family. This time, the rebel leader was his brother in law, Brat Htaba, the governor of Muttama to whom he entrusted guardianship of his throne. Brat Htaba had three brothers, Eiprabun, the governor of Lakunbyin, Lokphya, the governor of Myaungmya and U-lo, the governor of Mawlamyaing. They also armed their towns against Banya-Oo. As King Banya-Oo could not defeat this rebellion, he abandoned Muttama and lived in exile in Don wun for six years before re-establishing Bago (Hanthawaddy) in 731 (1369 CE). During his stay at Don wun (Ton Wun) his chief queen Śrī Māyā (Medaw) gave birth to a son Apason or Banya Nwe, later who become King Rajādhiraj (Nai Pan Hla 2541: 68).

As soon as Rajādhiraj became king in 745 (1383 CE) in Bago he attacked his rivals in the lower Myanmar 32 *myos* and started to fight Don wun, Tayai, Thanmaung and Lakunbyin. In the battle of Lakunbyin, Rajādhiraj ordered the whole town to be set on fire. As the governor of Lakunbyin, Baw-la-gun, was busy fighting a fire on his elephant's back, Rajādhiraj's men cut him down and killed him on the spot. Rajādhiraj then occupied the town, made Lakunbyin his base to attack Muttama and conquered Muttama, Mawlamyaing and all the 32 cities in the region. A similar event occurred in a battle of Muttama during the reign of King Tabinshwehti of Taungoo (Toungoo, 1530-1550 CE). In 899 (1537 CE), soon after becoming the king of Hanthawaddy (Bago), Tabinshwehti marched on the Muttama 32 myos. The Maharajawanthit ("The Great New Chronicle") compiled by Maha-sithu U Tun Nyo records the name of Lakunbyin (Lakwnphyan, Lawan) upstream of Muttama (Kyaw Win 2551: 39, 60).

The Muttama defence lines were strong with walls made along the sides of the hills. On the river side were seven ships armed with cannons that destroyed the troops of Tabinshwehti. Tabinshwehti's fleet as well, some 3,000 war boats and 130,000 armed men, could not manage to advance. The siege lasted for two months with attacks by river and land until at last, Tabinshwehti appointed Thamain Maru as his admiral and made Lakunbyin his headquarters. The admiral ordered his men to build a bamboo raft measuring 189 metres in length and 91 metres in width, on which they piled firewood up to a height of 9 metres. Another bamboo raft was built bigger than the former measuring 549 metres in length and 110 metres in width on which they built a stockade higher than the walls of Muttama. They arranged battlements, railings and cannons on the stockade and after setting fire to the piles of firewood on the raft, set the two bamboo rafts afloat upstream from Lakunbyin so they would move downstream to Muttama at dawn when tidal current started to retreat. As a result, all seven ships at Muttama harbour were burnt, and as there were no ships to guard the river side on the east of Muttama, the raft with the stockade approached the city and fired its cannons. The troops guarding the city fled from their defence lines and Tabinshwehti occupied Muttama (Kyaw Win 2551: 34-35). As all these accounts underscore, Lakunbyin was an ideal military base as it was only a short way from Muttama with its defences sustained in subsequent centuries.

# Dhañyawaddy and Du'Wop

With Dhañyawaddy and Du'wop, we bring Kaw gun cave into the Sampanago-Lakunbyin network. The link is vital as Kaw gun, the most significant archaeological and religious site in this region, probably stood more closely to Sampanago-Lakunbyin than Muttama. It is not only Kaw gun for there are further caverns of note less than 3 kilometres to the northwest, at Yathebyan ( $16^{\circ}50'28.83''N$ ,  $97^{\circ}33'50.70''E$ ) with further caves in the area at Hpa-gat, Bingyi (Bayinnyi) and Dhatkyaik. Finger-marked bricks ( $46 \times 41 \times 5 \text{ cm.}$ ) recorded from Kaw gun suggesting a first millennium CE date supported by the iconography of many of the *mye-bon-hpaya* tablets and carvings in the cave as well as palaeographic dating of the epigraphy.

All the caves in this area have long been a matter of study, with the first British visit in 1827 by the envoy John Crawford. At Kaw gun, the entire outer and inner surface of the walls and ceiling are covered with *mye-bon-hpaya* tablets of Sukhothai style dated to the thirteenth to fourteenth century CE [Figure 13]. Over time, they have been arranged symmetrically to make terraces and spires, many painted brown and golden colours (Nai Pan Hla 2007: 68). The plaques and other carvings in stone bear many images of Buddha in regalia seated in meditation or with legs pendant (Than Tun 2002: 23-24). There are also images of the reclining Buddha, all framed with floral designs and arches and pediments as well as dancing half-bird figures (*kinnarā-kinnarī*). One standing image of the Buddha is in the fearless



hand gesture (*abhayamudrā*), others flanked by royally dressed figures, or ones bearing a human head on a lion body or two lively *yakṣas*. It is within this cave that several significant early inscriptions for our study of Sampanago-Lakunbyin are found, one including the phrase "*dun du*' wop" that we connect to Dhañyawaddy. Figure 13: Overhang at Kaw gun cave showing the reliefs and images donated by pilgrims over the centuries [Photograph by San Win].

The compound-word "Dhañyawaddy" derives from the Sanskrit *dhāŋya* for rice or paddy and *vatī* for town site. It was a common name for any site with suitable or arable rice lands. So while in Myanmar this name is often linked to the Buddhist walled site in Rakhine state (Arakan), it may also be a reasonable referent to the walled site north of Muttama, Sampanago-Lakunbyin. The name is used for the Muttama region in the Mon chronicle, as "Dhaññavatī-Mottama" linked with "Suvaṇṇabhūmi-Sudhammavatī" (Thaton) and Hanthawaddy (Haṃsavatī or Bago/Pegu) through the Gavampati tradition of the Buddha's visit to the Mon lands (Tun Aung Chain 2010: xxviii).

Dhañyawaddy may also be connected to the name Du'wop, mentioned in an Old Mon inscription engraved on the inner hem of the adorned so-called "Jambūpati Buddha" found in Kaw gun cave, 17 kilometres north of Sampanago. Scholars agree that Mon phonology, grammar and lexicon changed considerably over time, some contending a linguistic evolution which is unparalleled elsewhere in Southeast Asia (Shorto 1971: ix). In this context, we suggest that "Du' wop" in Old Mon comes from the Sanskrit *dhānya* or Pāli *dhañña* and *vatī*, with the first changing to "*du*" and the second to "*wop*" to accord with local pronunciation and scripts. Nai Pan Hla has noted a similar pattern of shortening in Indic words when brought into Old Mon (2007: 107-110) [**Appendix 1**]. The inscription, as seen below, also mentions Sampanago (Campānagara or Campānāga) with Nai Pan Hla (2007: 70) connecting Du'wop to this site:

The name of the city given in the Old Mon inscriptions engraved on the inner hem of the Jambupati Buddha found in Kaw gun cave is entirely unknown. We cannot trace the name of a city called Du' Wop in any Mon chronicles. The nearest city name known as Campānagara [Campānāga] is located about five miles north of Martaban [Muttama] and some 25 miles south of Kaw gun cave.

The Kaw gun image, described by Nai Pan Hla as Jambūpati, may in fact depict the descent of the Buddha from Tāvatimsa, with a second similar image also found at Kaw gun having been identified in this manner (Naw Yuzana Win 2009: 51; San Win 2556: 89).

Remarkably, there is a duplicate of the Kaw gun inscription at Thaton, like the Kaw gun example, not bearing a date (Chit Thein 2509: 9-10). A duplicate of it was placed in the *dhammayon* of the Thaton Shwesayan "pagoda" by Taw Sein Ko in the early twentieth century and still kept in an inscription shed in the "pagoda" compound. Thus, even though we are not able to give a precise date, the similar palaeography temporally pairs Kaw gun and Thaton while the inscription itself puts Sampanago into the same timeframe and site network. The inscription, according to Nai Pan Hla (2007: 70), reads as follows:

This image of Lord Buddha, it was I, queen Muh Tah residing in the city of Du'wop who carved and made this Holy Buddha. Stone and clay Buddha situated either in this city or outside the kingdom were made by one together with my followers who were skilled in carving stone images. Many other teachers and craft men appear to carve Buddhas of stone!

The Old Mon inscription from Kaw gun is dated by Nai Pan Hla (2007: 68) to the tenth century, correlating it with a Hindu *trimūrti* stone relief bearing similar Mon writing identifying the piece as Viṣṇu. Moreover, a three line old inscriptions referring to Śrī Parameśvara is inscribed on the wall of the Kaw gun cave audience hall in Sanskrit mixed with Mon. Palaeographically, this undated inscription is ascribed in the seventh century (Nai Pan Hla 2007: 67).

As noted above, along with the proper name, queen Muh Tah, the inscription also contains a place name, "Don du'wop," where we follow Nai Pan Hla in connecting to Sampanago-Lakunbyin not later than tenth century. Many scholars have long debated the location of Du'wop, with Gordon Luce locating it near Pa-an in Kayin state (1953: 5 and 1985). Michael Aung-Thwin included it in a table of forty urban, sacred/mythical and natural sites in lower Myanmar all of which he dates to the eleventh-thirteenth century.<sup>10</sup> Du'wop, despite Luce's identification as an urban site, is estimated as fourteenth century in reference to the reign of an unnamed queen. As the inscription described above is without a written date, he postulates that queen Muh Tah was the fifteenth century Shin Saw Bu (Aung-Thwin 2005: 59, Table 1).<sup>11</sup>

# Conclusion

While problems have been raised on drawing connections between Thaton, Muttama and Bago (17°18'34.77"N, 96°29'41.73"E), the Myanmar landscape we describe is more complex, drawing in Kaw gun caves (16°49'36.59"N, 97°35'8.85"E) and Winka (17°13'34.79"N, 97° 4'16.07"E) to the northwest of Sampanago (Aung-Thwin 2005: 79-103). We bring together legends and artefacts to define the trading networks of the Mon state in the late first millennium and early second millennium CE. An ancient town site of Sampanago-Lakunbyin may also have been called Dhañyawaddy, a name derived from Du'wop in Old Mon. Because it is built beside the rocky mountain it was also called Muh Tamo' or Muttama (Martaban), a name well-known in the thirteenth century.

The site thus appears to have been referred to as Sampanago-Lakunbyin, Muttama, Dhañyawaddy and Du'wop. Each reflects the different conditions, with Sampanago and Lakunbyin for example, perhaps different groups of Mon-Khmer speaking people. Dhañyawaddy, a Sanskrit-derived word, recalls the local ecology and appears to have survived in inscriptions such as those at Kaw gun cave as Du'wop, a Mon derivation of Dhañyawaddy. Recalling their mother's *nāga* lineage, Thamala and Wimala, the legendary founders of Hanthawaddy-Bago are said to have migrated from Sampanago, the "City of Serpents," in the sixth century. The next Mon influx would have been from Haripuñjaya or Lamphun with its associations to the name Lakunbyin. Other chronicles and traditional stories call it Dhañyawaddy (blessed place) with Sanskrit origins, Muttama and Du'wop, the last possibly a Mon derivation of Dhañyawaddy.

Artefacts from ground survey supporting a sixth to ninth century culture include coins, beads and finger-marked bricks paralleling finds from Khu Bua, U Thong and other early sites in Kanchanaburi, Thailand. Sampanago's location on the Thanlwin thus facilitated trade eastwards as well as to the north, west and to the coast. Sampanago-Lakunbyin did not exist in isolation, with artefacts, sculpture, chronicles and inscriptions from Thaton (Sudhamma) and Kaw gun (Kotgon) cave defining the significant role of the Mons in lower Myanmar in the second half of the first millennium CE.

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# Appendix 1: Glossary of Place Names

**Amherst:** Headquarters of a district in the Tenasserim division of lower Myanmar (14° 56'-17° 2' N, 97° 27' - 98° 51' E). It is called Kyaik-kha-mī in Mon with the Myanmar name the same. The city was named in honour of Lord Amherst (1773-1857 CE), the British Commissioner who first governed in Kyaik-kha-mī.

**Attaran:** A tributary entering the Salween (Thanlwin) at their confluence, which Mon people call "bīkatat" meaning the river where fishes spawn.

Ayetthama (Ayassma): A village located on the north of Mt Kelāsa, Bilin township, Mon state, lower Myanmar. Ayetthama and Winka are traditionally considered part of the first "Suvaṇṇabhūmi" later shifting to Thaton.

**Bago:** Myanmar pronunciation for Pegu which was formerly known as Hamsavatī ("City of the Brahman Ducks;" see Hinthagon). The Mons also called Upéku, carrying the sense of being helped by a stratagem (*upāya* in Pāli means stratagem) and Ussā (after Orissa in India). Thamala and Wimala, the twin sons of Theinnaganga, the legendary king of Dhañyawaddy in 592 CE, who were exiled from their father's kingdom when it was discovered that their mother was of *nāga* parentage, traditionally founded the city.

**Bheng Laing:** The upper reaches of Dontami river near Sampanago are called "Bhan-luin" in Mon. There was an old town site with the same name.

**Bingyi:** A limestone cave in the Kaw gun group near Thaton with numerous Buddha statues inside dated to be Muttama period of the thirteenth century CE onwards.

**Dhañyawaddy:** In Pāli *dhañña* meaning uncooked grain, in Sanskrit *dhāŋya*, to bring in or bestowing wealth and good fortune; auspicious, virtuous. An old name of Muttama, also known as Sampanago-Lakunbyin.

**Dhatkyaik:** A limestone cave near Thaton called Thuim-dhāt-kyāk in Mon meaning the "cave enshrined with the Buddha relic." Finger-marked bricks have been found in that cave indicating its use in the first millennium CE.

**Dhat taw ywa:** A village of Kayin people located inside the walled site of Sampanago on the western slope of the central hill where a *stūpa* called Dhat taw ceti is located.

**Dontami (Tontami):** A river named after a town site called Dun-tam in Mon, which means the new town. It flows into the Thanlwin (Salween) north of Sampanago.

**Don wun (Tonwun):** An old town site near Thaton. "Donwān" in Mon means "Laterite City" from *don* meaning town or city and *wān* meaning laterite. **Du'wop (Du'wop'):** A short form of Mon probably derived from Dhañyawaddi, the old Muttama town site probably at Sampanago.

**Hinthagon:** A small hillock located inside the walled site of Hanthawaddy. The word derives from "Hamsa Hill" where according to the chronicles the two Brahman ducks, male and female, rested one on top of the other, at the time of Lord Buddha who foretold that on this spot Hanthawaddy city would be built.

**Hlaingbwe:** "Lhuin blai" in Mon, used to designate a river and an old town site near Thaton now located in Kayin state.

**Hmawbi:** Derived from *mhow*  $b\bar{i}$  in Mon, meaning river ferry port, now a small village on the west bank of Thanlwin (Salween).

**Hsin Phyu Kyun:** From *tka' cin btān* in Mon meaning the island of the white elephant, located on the northwest part of the walled site of Thaton.

**Jaing:** A river joining together with Thanlwin (Salween) called "Bīgrān" in Mon.

**Kadaikgaleh:** This ancient site is called "Little Kadaik" in Myanmar and "Katak tot" in Mon. (*katāk* means a shark-like fresh water catfish and *tot* means little). It is a village built on laterite high ground surrounded by walls and a moat located on the east bank of Bilin river.

**Kadaikgyi:** A village 1.6 kilometres east of Kadaikgaleh called "Katāk jnok" in Mon ("Big Kadaik"). The ancient site is built on a large area of laterite high ground surrounded by walls and a moat.

**Kalama taung:** The name means "Mountain of Indian Lady" (914 metres in elevation), the highest place in the Thaton-Muttama region and a continuation of Mt Zingyaik (797 metres in elevation). First millennium CE habitation sites have been documented on its slopes and summit.

**Kaw gun (Kotgon):** A celebrated Buddhist limestone cavern near a village called Kaw gun located on the west bank of Thanlwin (Salween) in Kayin state. Other caverns of the same type are found in the area including the group of Pagat, Yathebyan, Bingyi, and Dhatkyaik.

**Kyaikphyinku:** This site name refers to a *stūpa* known in Mon as "Kyāk plan pau" which is built on the peak where the Buddha and his Arahats first came during the Buddha's journeys to Suvaṇṇabhūmi (Thaton) related in the Mon Chronicle. The *stūpa* is located in the southwest corner of the present Muttama old city.

**Kyaik Kalunpun:** This refers to a *stūpa* called "Kyāk klam ban" in Mon, said that to have been built on the spot where the Buddha and his Arahats were prevented from continuing their journey by a hundred ogres

standing with their hands clasped. The name means the "pagoda" embraced by a hundred ogres with their outstretched arms located in the northwest corner of the walled site of old Muttama.

**Kyaikkatha:** The name of a *stūpa* located in a village of the same name after the legendary hero Sman Assh of the Bago (Pegu-Hamsāvatī) dynasty with remains of the earlier Old Mon (Thaton) period.

**Kawhtin:** This site is known as "Ko' htein" in Mon, which is a village and a small walled town site just south of Kyaikkatha.

**Kyauksarit:** This place name is "Tmo' krah" in Mon, meaning "pebble." It is a small river joining the Dontami and the name of a village located southwest of Sampanago. A brick structure with finger-marked bricks indicating its antiquity was found at Kyauksarit village.

**Lakunbyin (Lagunbyin):** One of the historically documented "32 *myos*" or towns of Muttama which was built on the site of the Mon Sampanago-Dhañyawaddi town of the later Mon period (thirteenth century CE).

**Mayangon:** The village of Mayangon (in Myanmar) means a high ground where the Mayan trees (*Bouea burmanica*) grow located close to Kadaikgyi and Kadaikgaleh. The Pāli for Mayan is *muragan*. The Mons call it "Maruiksabum." In 2006, 137 Neolithic polished stone implements were documented at the village following dredging works.

**Mawlamyaing:** This site was known as Moulmein in English, now the capital city of the Mon state. The Mons call it "Mat ma Luim" and in Pāli it is Rammāvatī.

**Muttama:** This site is Martaban in English, "Muh Tamo" in Mon and the Myanmar call it "Madama," meaning "Rock Slab City." The *Chronicle of the Mons* (Tun Aung Chain 2010: 7-8) states that "the Lord Buddha, [...] then went [flying] through the sky with 500 arahats, and, in the seven cities of Dhaññavatī, Kasavatī, Pupphavatī, Hanthawaddy (Hamsāvatī), Rammavatī, Karanaratthavatī and Rock Slab City where he arrived, he attained the achievement of fruition (phalasamāpatti) and foretold that the religion would be established there [...]."

**Nathmaw:** A village located on the west bank of Thanlwin north of Sampanago. The Mons call it "Nehah mhoaw" meaning ferry port.

**Pa-an** (**Hpa-an**): This place name is "Bhā aṅ" in Mon, meaning the monastery built of wood (*Dipterocarpus tuberculatus*) and in Pāli, *pāvana* (Pinnya 2471: 106). It is now the capital city of Kayin state on the east bank of Thanlwin river, lower Myanmar.

**Puñjaluin:** This word is a combination of Pāli, *pañca* meaning five and Mon, *luin* (Mon) meaning to flow. It is the name of the confluence of Thanlwin in its estuary, which ends into the Gulf of Muttama (Martaban) where five rivers join together: the Thanlwin, Jaing,

Attaran, Hlainbwe and Dontami. A small island at the mouth is also called "Ko' (kaw) puñjaluin" (Gaung hsay kywan in Myanmar) referring to its traditional use by the Muttama kings for boat races and the Headwashing ceremony.

**Ratanapura:** A name derived from Śrī Ratanapura, the formal title of Muttama old city founded by King Wareru (Makadu) in 1287 CE.

**Sa Chaung:** The meaning of this name in Myanmar is a salty-creek or channel use for salt production. It flows north to south (not east to west like the natural streams of the local landscape) connecting Thaton to the mouth of Bilin river. It may have been an outlet or waterway for the port of Thaton in earlier centuries. The *Thaton Chronicle* mentions it as the Musarani or the Thaton river.

**Sampanago:** A walled site and village recorded in the *British Burma Gazetteer* (1879) located near Muttama. It is referred to as Campānagara or Campānāga in Pāli/Sanskrit, in this essay as "City of Serpents."

**Seik Kyun:** This means "ferry-port island" in Myanmar, located near Mayangon village in the Kadaikgyi group of sites.

Shwesayan: "Shwesayan" in Myanmar is a common name for a *zedi* (*ceti*) or *stūpa* with this example located at the ancient site of Thaton. The *Chronicle of the Mons* noted that the Buddha, at the request of Venerable Gavampati, visited Thaton (Suvaṇṇabhūmi) during the winter of the year 111 Mahā Era (507 BCE?), and had first given his hairs for worship to hermits who dwelled on various mountains and to Siharāja, king of Thaton. Then, when he entered the Final Decease in Kusinara (in India) the Mahāthera Gavampati took four teeth from the wooden casket to give to Siharāja. It is said that King Siharāja built Shwesayan to enshrine the Hair Relic and Tooth Relic for veneration (Shwe Naw 1931).

**Sittaung:** This is also known as Sittagaun, the name of a river, an old town site and a village within the old walls located north of Kyaikkatha.

Taikkala: This is an ancient site of archaeological significance in Bilin township, Mon state, which lasted until the British occupation of lower Burma (Myanmar). Excavations were made during 1975-78 CE at the site of Mt Kaletha (Kelāsa) to document ancient Taikkala (Suvaṇṇabhūmi) 40 kilometres northwest of Thaton.

**Thaton:** A district of Mon state in lower Myanmar. This is the historical site of so-called Suvaṇṇabhūmi where King Aniruddha of Bagan (Pagan) is said to have attacked and occupied in 1057 CE. The ruins of Thaton can be traced in and around the modern Thaton town.

**Ussā:** This is one of the names of Bago (Haṃsavaū) following the example of Orissa in South India. (see Bago).

Winka: This is a town site of ancient "Suvannabhūmi" (Thaton-Thudhammavatī), excavated during 1975-78 by U Myint Aung. The name "Win Ka" in Mon means the "lagoon for fish." It is located at the southeast foot of Mt Kelāsa in Bilin near many ancient sites of archaeological interest, such as Kyaikhtizaung, Hsindat-Myindat, Zokthoke and Muthin. It was also called Taikkala (Winka) within the documented ancient laterite culture of lower Myanmar.

# Endnotes

- 1 Makyi-Kyun, Mainmahla-Kyun, Kappli-Kyun, Dawe-Kyun, Pat Kyi-Kyun, Kula-Kyun, Khaung-hse-Kyun, Zweya-Kyun with Mon names such as Kaw-Lamu, Kaw-Hla, Kaw-Min, etc. (kaw is island in Mon).
- 2 A monk staying in a monastery on top of the hill where Dhat taw hpaya was under repair reported that he found a stone box when they dug up the relic chamber of the ruined stūpa. The box contained two human figures resembling a king and queen, the man being stout and fat. However, the box was re-buried again in the repaired chamber. Whether apocryphal or fact, the anecdote highlights the absence of records on artefacts found during successive "pagoda" repairs at the site.
- 3 Southeast Asian ceramics collection (inv. no. S2005.238). See the collection online: http:// seasianceramics.asia.si.edu.
- 4 A Myanmar name for red-earth or laterite soil found on high ground. Most of the settlements in lower Myanmar are located on this type of redearth elevated land in a region where the heavy rainfall and tidal activity are common.
- 5 Another Mon chronicle gives the date of 592 CE for the founding of Bago by Thamala and Wimala.
- 6 Odradeśa, "land of the Orissans."
- 7 Michael Aung-Thwin notes that the Cāmadevīvamsa does not mention the language of the Sudhamma population but only that of Hamsavatī and cites various locations for Sudhamma including Haripuñjaya (2005: 91).
- 8 Here and after in the chronicles, the dates are traditionally given in Myanmar or Burmese Era starting in 638 CE.

Zimkyaik (Zingyaik): This mountain is called "Zingyaik" in Myanmar referred to a mountain peak and a large village at the foot of it. The Mons refer to it as "Kvāk bran nab," the pagoda of the female *nāga* which was built on the peak. It is said that the legendary King Siharāja of Thaton and his foster father, the hermit Tissa, built this *stuba* to enshrine the Buddha's sacred hair relic, which was given to the hermit for veneration.

- 9 Kon Myo, Zava Myo, Banhlaing Myo, Wakharu Myo, Mawlamyaing Myo, Wanyaw Myo, Lakunbyin Myo, Ye Myo, Tonwun Myo, Kyait Myo, Tontami Myo, Kaw Myo, Bilukywn Myo, Attaran Myo, Myaing Myo, Winyaw Myo (16), Eibric Myo, Zami Myo, Taung bo' Myo, Taikkala Myo, Dharai Myo, Thagaing Myo, Zweya Myo, Htakyaing Myo, Yannyein Myo, Ei'we Myo, Hlaing Bwe Myo, Yin-On Myo, Kaw' Pain Myo, Lamaing Myo, Myawaddi Myo, Paung Myo (32). With the addition of Muttama, the capital, the number becomes 33 myos.
- 10 Of these, Bassein, Bilin, Du'wop, Bago, Sittaung and Thaton are urban; Kelatha is called natural and Kyaik Talan and Kyaik Te sacred/mythical. Thaton is given an estimated date of 1479 CE in reference to Dhammazedi's Kalyānī inscription (Aung-Thwin 2005: 59, Table 1).
- 11 Aung-Thwin qualified this, noting the link Luce had made to the queen as ruler of Muttama living in Du'wop and suggests that if Muttama dates to 1176 CE rather than 1326 as Luce cites then it could have been contemporaneous (Luce 1953: 5 and 1969). He also suggests that it may have existed in 1292 CE, although his argument relates to evidence to support a kingdom and concludes with the Shin Saw Bu identification: "Du'-wop may have existed in 1292 if the Rāma Gamheri [Ramkhamhaeng] inscription's identification of Martaban with the Tai 'Mo an ...n' is correct. in which case Du'-wop could not have emerged earlier than 1292." (Luce 1969: 2 and 1985: 1372; Department of Archaeology of Myanmar 2516-31: I, 345).

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PART III Early Buddhist Practices, Landscapes and Artefacts



# Glimpses of Buddhist Practices and Rituals in Dvāravatī and Its Neighbouring Cultures

NICOLAS REVIRE

# Introduction

The study of Dvāravatī has developed significantly since its beginning in the first half of the twentieth century, but little still is known about the history, political organisation, or the geographical extent of this polity.<sup>1</sup> What we do know derives mainly from archaeological remains, such as *stāpa* or *caitya* (T. *chedi*) foundations, stone and bronze sculptures, clay and stucco artefacts, and a fair amount of inscriptions, mostly religious in character. Although Buddhist practices and art have been inseparable since Buddhism arrived in the region, to the casual observer it can be difficult to make sense of this – often fragmentary – material culture, and the complex relationships between art, ideology and rituals that are at its basis. Previous pages: Ritual tray found in Nakhon Pathom, 7th-8th c. Currently in the Bangkok National Museum, stone, 15 cm. high, inv. no. K 133/4 [Photograph courtesy of Paisarn Piemmettawat].

In this essay, I shall explore this constant dialogue between the material and ritual cultures, as gleaned from archaeological and epigraphic evidence. The purpose is to examine the kind of Buddhist practices and liturgies that were observed in the Dvāravatī culture of today's central Thailand and beyond in the neighbouring regions and near contemporary cultures of east and northeast Thailand. In doing this, I will review early archaeological material and inscriptions to reconstruct certain religious activities of the period spanning approximately the seventh and eighth centuries with some extension into the ninth and tenth centuries.<sup>2</sup> It should be stated from the outset that nearly all artefacts and inscriptions under scrutiny are clearly the products of the ideology of merit (Skt, *punya*; P., *puñña*). While this concept is common in Indic religions,<sup>3</sup> a closer look at the details as well as the regional distributions of these artefacts and inscriptions may be revealing.

# The Bases of Meritorious Actions in Buddhism

The ideology of merit is an intrinsic concept in Buddhism and has been a major motivation for the production of art since its inception in India and Southeast Asia. Merit can, of course, be gained in a number of ways and the Pāli Canon identifies several bases of merit, the most basic of which is showing humility and paying respect (*apacayana*) to the three gems or *tiratana* (i.e. the Buddha, the Dhamma, and the Sangha).

Probably echoing this belief, the seventh century-Chinese travelling monk Yijing (635-713) reported for mainland Southeast Asia that "the inhabitants of all these countries greatly [pay] reverence [to] the Three Jewels (Ratnatraya) [*sic*]" (Takakusu 1998: 10). Archaeological evidence **Opposite Figure 1:** Terracotta relief from U Thong showing three standing Buddhist monks going on an alms round, 7th-8th c. (?); 20 cm. wide x 16 cm. high. Currently located in the U Thong National Museum, inv. no. 65/2509 [Photograph by Nicolas Revire]. supports this statement. A clay Buddhist tablet found in Khok Mai Den, Nakhon Sawan province **[Figure 2a]**, is engraved in Pāli with the following homage: *namo buddhassa namo dhammassa namo sanghas(sa)*, i.e. "Homage to the Buddha, Homage to the Dhamma, Homage to the Sangha" (FAD 2529: I, 287-291) **[Figure 2b]**.<sup>4</sup> Another "eulogy inscription" of uncertain date,<sup>5</sup> found at Noen Sa Bua, Prachin Buri province, gives a similar salutation to the three gems in ornate Pāli verses (PCh 14/K. 997).<sup>6</sup> These verses come from the opening homage of the Sinhalese *Telakatāhagāthā* and, because of this correspondence, various attempts have been made to demonstrate the early "establishment of Sri Lankan Buddhism" in Thailand during the so-called Dvāravatī period. This effort, however, has not been devoid of important biases and methodological problems and the above assertion has ultimately been refuted (Revire 2012a).

In addition to showing humility, the following three foundations of meritorious actions have been identified in the Puññakiriyavatthusutta (A IV 239; D III 218; It 51): giving (dāna), virtue or morality (sīla), and mental development or meditation (bhāvanā). The first, dāna, is of greatest relevance to the present essay. While the importance of the other two foundations cannot be denied, archaeological remains do not usually speak to their presence. The practice of *dana*, however, has had considerable social and economic significance in all Buddhist cultures and has left a large corpus of archaeological material and inscriptions for study.7 "Giving" is, in fact, essential to the production of any Buddhist artefact, image, or monument. In order to be produced, all material objects must have patrons and donors as sponsors who thus obtain merit depending on the recipients of the donation. The value of any act of giving depends not just on the person making the gift, but on the beneficiary as well, that is to say, more merit is accrued by giving to Buddhas and other enlightened or worthy beings. Since the death of the Buddha, however, only certain spiritually qualified members of the Ariyasangha are technically described as the worthiest "field of merit" (puññakhetta), that is, people can only obtain great positive karmic results in giving to them. But in reality, "giving" has always been a key method



Figure 2a: Obverse of a clay Buddhist tablet found in Khok Mai Den, Nakhon Sawan province, 7th-8th c. Currently located in the Bangkok National Museum, inv. no. 923/2508 [Photograph courtesy of Disapong Netlomwong].



**Figure 2b:** Base detail of Fig. 1a, engraved in Pāli with homage to the three gems (NW 6) [Photograph courtesy of Disapong Netlomwong].

for providing economic support to all monks and nuns alike and to Buddhist establishments for centuries.

A fragmented terracotta relief from U Thong shows three standing monks going on an alms round (*pindapāta*) **[Figure 1]**. The relief may well echo this ancient exercise combined with one of the austerities known as *dhutanga* in Pāli. This is the austerity of eating only what is donated as alms, regardless of amount or taste.<sup>8</sup> Common today among the forest monks of the Theravāda tradition, it was also practised in various Indian Buddhist lineages or *nikāyas* of the past (Ray 1994: 294ff). Yijing reported that many of the monastics present in Dvāravatī performed "the begging *dhūta*" (Takakusu 1998: 9-10, 56, n. 3). Accordingly, the laity gives food and other requisites to monks and nuns through daily alms rounds<sup>9</sup> or through making offerings at monasteries. Monks and nuns, in exchange, offer the gift of teaching (*dhammadāna*) or blessing, often exalted as the highest gift.

The act of giving is also emphasised in ancient Buddhist stories and tales. It is the supreme virtue perfected by all Bodhisattvas in their long path toward perfection (pāramitā) and the perfect self-enlightenment (sammāsambodhi). These stories, such as jātakas and avādanas, clearly serve a didactic purpose by presenting to laity the moral ideal of living a life conducive to the highest realisation, through the action of doing good deeds and perfecting one's virtues (e.g. giving). Celebrated acts of a Bodhisattva's generosity include occasions in which he offers up his limbs, his eyes, and even his life to those in hunger or in need. Fine artistic examples of this ideology can be seen in the famous series of jātaka plaques from Chedi Chula Prathon in Nakhon Pathom (Piriya 2517) or from Khok Mai Den, Nakhon Sawan province [Figure 3]. Several sema stones from northeast Thailand, dated to the eighth-ninth centuries, seem to depict the Vessantarajātaka where the act of giving is the central theme of the narrative plot (Murphy 2010: 249-253; Murphy, this volume, figs 12-13). The lesson of these stories is that a Bodhisattva is willing to give more than material objects, even his wife, his children, parts of his body, and even to sacrifice his life (Dayal 1970: 172-188). Naturally, the average layperson is not expected to make so great a sacrifice. For most people, the practice of *dana* is limited to material support in order to make merit.

# Sustaining Monasteries as an Act of Merit

While Buddhist texts stress the need for generosity, a number of ancient Mon, Khmer, and Sanskrit donation inscriptions dedicated by individuals (common people, kings or high officials) relate to lists of meritorious offerings for the benefit of monasteries or Buddhist communities (Prapod 2010: 86-90). This, again, should be understood within the context of the relationship of the near complete dependency of monks and nuns on gifts and the alms of laypersons. Records of such gifts underline the importance of lay and royal patronage in the establishment, development, and preservation of Buddhism in premodern Thailand and neighbouring Buddhist countries.

A few examples drawn from the list given in **Table 1** suffice to illustrate this ideology prevalent in central and northeast Thailand during the first millennium. What is significant in these inscriptions is the record of common people in donations. The epigraphs are often written



Figure 3: Jātaka plaque from Khok Mai Den (Chaddantajātaka?), Nakhon Sawan province, 7th-8th c. Currently located in the Bangkok National Museum, terracotla, im. no. 813/2508 [Photograph by Nicolas Revire]. in Old Mon, while royal donations are recorded in Sanskrit with the list of offerings sometimes given in Old Khmer. The donors are identified either by proper names or titles; the recipient can be a Buddha image, a *stūpa*, a community of monks, or a monastery. In Old Mon, these terms are given as, or preceded by, the word kyāk which equally refers to any sacred object or person [i.e. phra in Thai]. Among the common offerings, we find items suitable for alms, such as plots of rice fields, cattle, and so on, as well as the donation of "slaves"<sup>10</sup> as, for example, on the inscribed pillar from San Sung, Lop Buri province (LB 1/K. 409) [Figure 4], or the Ban Thalat inscription, written in Old Mon, from the Vientiane valley in Laos (HPK I/33). A recently discovered inscription from Sakon Nakhon in Old Mon (SN 10) even seems to refer to the offering of "doors and windows" to a local monastery (Kongkaeo 2550).

The epigraphic corpus also often provides information regarding the expected results of such donations. Most of the time, making merit is the main purpose. The belief in merit was, and still is, a cornerstone for sustaining the Sangha and their monasteries. Monastic donors were relatively few in number when compared to laity in local inscriptions found in pre-modern Thailand. This is only too natural for whilst the monk is expected to follow the highest teaching of the Buddha, having renounced the world and directed his activity toward meditation and the gaining of *nirvāna* or *nibbāna*, the immediate concern of lay Buddhists is not *nirvāna* but rather the accumulation of merit.

Two exceptions, however, are found from Nakhon Ratchasima province. One of the Hin Khon inscriptions (NM 31/K. 389) states that the fruits of merit from this donation to a royal monastery would ultimately lead the donor, most likely a prince who became a monk (*rājabhikṣu*), and all living beings to attain omniscience (*sarvajīa*) and become a Buddha. Similarly, the well-known Bo Ika inscription (NM 24/K. 400) found at Mueang Sema refers to a donation to the local Buddhist community by the king of Śrī Canāśa, who hopes to achieve *bodhi* or "Buddhahood" by this gift.

These statements seem at odds with the rigid tenet which asserts that *bodhi* can be realised only through meditation and, on the contrary, support the idea that self-enlightenment was also attainable by all including by making merit or giving. At any rate, the king who is commemorated in the Bo Ika inscription probably saw himself as a Bodhisattva and was hence supposed to practise diligently the perfection of giving (*dānapāramitā*).

# Making Buddha Images or Shrines as an Act of Merit

Other dedicatory inscriptions and inscribed artefacts related to this ideology of merit through the production of Buddha images, miniature tablets or shrines, or the sponsorship of Buddhist buildings are listed in **Table 2**. Repeatedly, the word "merit" appears on these, albeit in variant spellings such as *puñ*, *piñ*, *piñña*, *puŋya*, or *puṇa*. A few significant examples are given below.

The short seventh century inscription from Khao Ngu, Ratchaburi province (RB 1), found at the feet of a Buddha image, is possibly a mixture of Old Mon-Khmer and Sanskrit; it was first read by George Cœdès as follows: *puñ vraḥ ṛṣi ... śrī samādhigupta*, i.e. "the meritorious deed of the Holy hermit ... Śrī Samādhigupta" (1961: 19).<sup>11</sup> This reading, however, cannot be confirmed since only the first word *puñ*(·) and the last word *samādhigupta* are certain. It is likely that *samādhigupta* refers here to a name and an adept of Buddhist meditation (a recluse monk?) and that merit was thus generated because of his practice or his dedication.<sup>12</sup> It is one of the few epigraphs that also relate directly to an iconic form, a pendant-legged Buddha image carved on the cave wall.<sup>13</sup>

A few other inscriptions in Old Mon or Sanskrit are found on the bases or pedestals of standing Buddha images dated on stylistic grounds from the seventh or eighth century. Two well-known examples from Lop Buri have been published by Coedès and the Fine Arts Department (FAD). The first one is from Wat Khoi (LB 9/K. 695) where the reading is, according to Cœdès (1961: 6), rather uncertainly as follows:  $[\dots]$ *rlla* $(\dots)$ *ñ kauñ vi* $(\dots)$ *y cyāga.* While Cœdès provided no translation, he deduced that the language was probably Mon. The FAD, however, later proposed a slightly improved reading: [...]rll man koñ vijhay cyāga and offered the following translation: "A grand father and his grand children beautified the Buddha image" (2529: II, 37). The Thai translation is not without problems because the FAD epigraphists interpreted the word spelt cyāga as a variant of kyāk (i.e. "Buddha image") which remains so far unattested in the whole corpus of Mon inscriptions. In fact, the word cyāga is most likely a blend-form of cāga in Pāli and tyāga in Sanskrit which means "abandoning, giving up, renunciation" and the like. But given the fragmentary nature of the inscription, a proper translation cannot vet be offered. The second dedicatory inscription is clearly in Sanskrit and was found long ago in Wat Mahathat, Lop Buri province (LB 5/K. 577). It records the installation of a pratimā muneh (Buddha Śākyamuni?) by a certain nāyaka Ārjava, ruler of the Tangur people and son of the king of Sāmbūka (Cœdès 1961: 5; FAD 2529: I, 231).14

One so far unpublished example from Sung Noen district, Nakhon Ratchasima province, is far less ambiguous. The inscription, in a script paleographically datable to the seventh or early eighth century, is found on the lower base of a standing Buddha now kept in the Phimai National Museum (14/2536) [Figure 5a]. It is fragmentary and can only be read on the Buddha's proper right. The reading in Old Mon is kyāk punya [...] [Figure 5b] which may roughly be interpreted as "this 'Holy One' [kyāk, i.e. "Buddha image"] is the merit of [...]" where the title and/or the name of the donor is lost with the break on the proper left of the image. A comparable inscription is found on the reverse of two clay tablets found in Chon Buri province (DV 36, DV 38) [e.g. Figure 6]. The inscription reads: kyāk puñ [...] (t)rala, i.e. "this Buddha image is the work of merit [...] (of) Lord [...]" (Bauer 1991b: 63). Similarly, the proper name of that "lord," the donor, is missing due to the incomplete nature of the inscription. As we shall see from the following examples, however, an alternative translation for the standard Mon expression kyāk punya is possible.

At least three reported bilingual inscriptions in Old Mon and Pāli were found on miniature earthenwares<sup>15</sup> from Thap Chumphon, Nakhon Sawan province, dated on paleographic grounds to the Figure 4: Wheel pillar from San Sung, Lop Buri province, inscribed in Old Mon (LB 1/ K. 409). Currently located in the National Library, Bangkok [Photograph by Nicolas Revire].





Figure 5a: Standing Buddha bearing an Old Mon inscription at its base (Fig. 5b). Currently located in the Phimai National Museum, inv. no. 14/2536 [Photograph by Nicolas Revire].

Figure 5b: Detail of Fig. 5a with the Old Mon inscription reading kyak punya /Photograph by Nicolas Revire].



Figure 6: Reverse of a clay tablet found in Chon Buri province, bearing an inscription in Old Mon. Currently located in the Phra Nara National Museum, Lop Buri, inv. no. DV 36 [Photograph by Nicolas Revire].

the work of merit of the lord (of) [...] vihāra" (Bauer 1991b: 65). While this interpretation is within the realm of possibility, it does not really account for the presence of the word vihāra.<sup>17</sup> Another more complete example, although still unregistered by the FAD (NW i), could perhaps shed light on the matter. It has been read as ne' kyāk puña tara tra' jrap vihāra, and rendered in Thai as "this is the holy merit [phra bun]: sālā and vihāra" (Kannika & Phongkasem 2542: 145). If this rendition is correct, we would then have an occurrence where the Mon term kyāk does not refer to the actual object on which it is inscribed, for example here a terracotta fragment, but acts as a prefix to qualify what follows, i.e. puña, hence the "holy" merit<sup>18</sup> obtained by the gift or the sponsorship of a sālā and a vihāra. Moreover, given the many examples where the word trala, trala', tarla', tirla' or other minor variants occurs in this context in Old Mon inscriptions as a title or honorific meaning "lord" or "master" (Bauer 1991b: 61-63), it is tempting to amend the

eighth-ninth centuries [e.g. Figure 7].<sup>16</sup>

The inscriptions comprise two lines

around the lower rim in Mon and Pali.

On one occasion (NW 7), the first line

is written ne' kyāk puna tra[la] [...] wihār

in Old Mon, translated as "this stupa is

reading to tara tra' for trala, tarla', or the like. All in all, we would thus have something like "this is the 'holy merit' [kyāk puña] of the 'lord' [i.e. trala] of the sālā and vihāra." According to Bauer, the pronoun ne' i.e. "this," found in the two above examples, may be a Khmer calque since it is rarely attested in Old Mon inscriptions, where wo' or 'awo' normally occurs in its place (1991a: 40-42). It could also point to Khmer-Mon bilingualism (Bauer 1991b: 66-67). A third example (LB 26) is similarly inscribed with one line in Old Mon, but has unfortunately become much deteriorated. Only two words remain: puna and vihāra (Phimphan 2013: 13). The second line engraved on all these earthenwares is the Pāli ve dhammā verse, to which I shall return in a subsequent section.

The above short dedicatory inscriptions in Old Mon found on stone or clay images or hollow terracotta fragments seem to link to similar inscribed miniature tablets and sema stones originating from the Khorat Plateau, where the most frequent words are kyāk and punya, "holy" and "merit." Put another way, if kyāk is taken to be a Buddha image, a caitya, or a sacred object, it is thus merely produced for punya. Two clay tablets from Mueang Fa Daet in Kalasin province (KS 1, KS 2), dated stylistically to the eighth or ninth century, come to the fore in this regard. These have been published several times but the inscriptions on their backs have never been fully translated in English. The inscription as wo' [or wo]  $k v \bar{a} k p i \tilde{n}$  ('u)pajhāv 'ācā Ryva guna wikhvāt [or wikhvā(t)] is virtually the same on both tablets (Bauer 1991a: 66). According to Bauer, this is the first time that the variant spelling piñ for "merit" is attested in Old Mon. The terms 'upajhāv 'ācārvva in Old Mon are evidently derived from Pali (upajjhāya) and Sanskrit (ācārya) and refer to a monk's preceptor and a religious teacher. The two inscriptions may thus be approximately translated as "this is the 'holy merit' of the preceptor and/or teacher who is/are well known by his/their virtue." It is not known if the inscriptions refer to one or two distinct individual(s) in this case.

A number of other inscribed tablets from Mueang Fa Daet (KS 4, KS i) and Na Dun (MKh i, iv, vii), similarly dated to the eighth or ninth century on stylistic and paleographic grounds, record in Old Mon the merit of certain lords (tala or tarla), rulers or even self-proclaimed universal kings or cakravarti (MKh iii). The inscription numbered MKh 2 (and possibly also MKh 3) reads nai vo' punya kamraten pdai karom'or skum das jāti smar (Bauer 1991a: 42) and could be translated as "this is the work of merit of the king. May I not be born to a mean existence." Bauer argues that the term nai' for "this" may be a variant of a similar Khmer word which again would suggest contact with Khmer populations in this region. This is certainly reinforced by the use of the Khmer royal title kamraten p(h)dai karom which appears here for the first time in Mon inscriptions (Bauer 1991a: 46).

Several inscriptions on sema stones mostly found in Chaiyaphum, Kalasin, and Khon Kaen provinces refer to merit-making activity performed by kings, monks, or commoners from the eighth to the tenth centuries.<sup>19</sup> Some donors also express the wish "to be reborn again in the time of Ārya Maitreya," the future Buddha (KhK 16 and perhaps KhK i). The inscriptions often display the use of a hybrid Mon-Khmer language. The inscription from Wat Pho Chai (KS 7), for example, reads punya pragata kanmun kasmun kyāk cak and has been translated as "this is the work of merit bestowed by King Cak" (Uraisi 1995: 200). Here, the word *pragata* has been interpreted by Bauer as Khmer (1991a: 43). It also occurs in the Khao Rang inscription from Prachin Buri province (PCh 1/K. 505). The title kasmun or ka smun, possibly a variation of smin' ("king," "prince"), is found on another sema stone from Kalasin, albeit with the variant spelling ksmun (KS ii), and is understood as a Khmer-Mon contact word (Bauer 1991a: 46). Likewise, the title kurun ("king," "to rule"), attested on sema inscriptions from Chaiyaphum (ChY i) and Khon Kaen (KhK 17), appears in profusion in Khmer inscriptions. The distribution of such terms or titles as *pragata* or *kurun* in inscriptions from northeast Thailand suggests that these may be Khmer loan words in Old Mon (Bauer 1991a: 44-47).20 They could also indicate Mon-Khmer bilingualism in the region.

While cases of multilingualism are thus possibly attested in central and northeast Thailand, it may be significant that not a single donation or dedicatory inscription in Pali is recorded during the first millennium CE **[Tables 1-2]**.<sup>21</sup> Most epigraphs recording this ideology of merit are written in Mon, sometimes with Khmer and Sanskrit or, to a lesser extent, Pāli loan words, while a few donations or installations are written in Sanskrit alone<sup>22</sup> or in association with Khmer in east and northeast Thailand. In what follows, however, I shall deal only with Pāli inscriptions of a different kind. These have been found essentially in central Thailand [Map 1] and are roughly dated to the seventh and eighth centuries. They are almost exclusively "canonical" and are often related to the paticcasamuppada and ye dhamma verses, closely connected to the teaching of the Four Truths of Buddhism.

Figure 7: Miniature earthenware from Thap Chumphon, Nakhon Sawan province, bearing an inscription in Old Mon and Pāli. Currently located in the Phra Narai National Museum, Lop Buri, inv. no. 286/2504 [Photograph by Nicolas Revire].



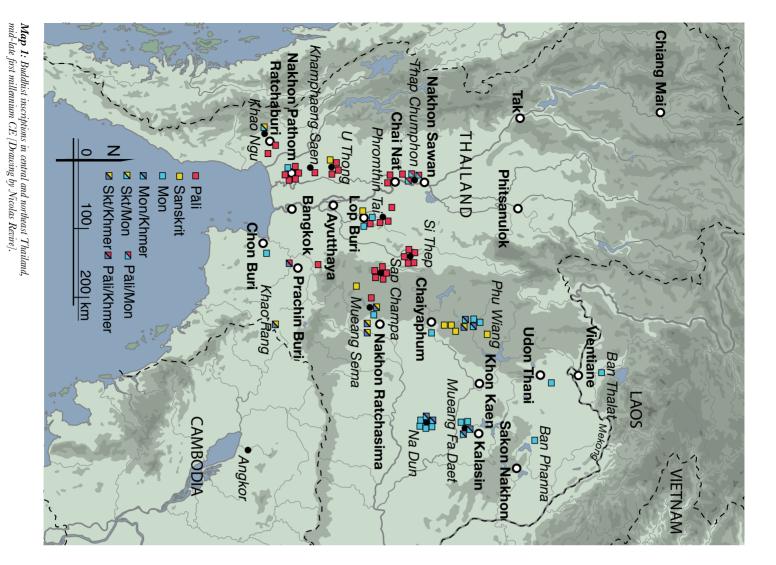


Table 1: Buddhist Donation Inscriptions Found in First-Millennium Thailand

Inscr. no./ Inv. no.	Provenance/ Location	Date	Languages	Donors	Offerings	Recipients	Expected Results	References
NTh 9/ 40/2519	Wat Pho Rang, Nakhon Pathom/ Phra Pathom Chedi National Museum	6th-7th c.	Old Mon	unknown	list of gifts: land, silver vase	Buddha (kyāk) or a "holy monastery" (kyāk vihār or bihār)	missing (fragmentary)	Cœdès (1952); FAD (2529: II, 27-33); FAD (2548: 196-197)
PCh 1/ K. 505	Khao Rang, Sa Kaeo prov./National Library, Bkk	561 <i>śaka</i> = 639 CE	Sanskrit and Old Khmer	a certain <i>sināhv</i> (name or title? pious hermit?)	32 workers: couples and children as "slaves" (kñuṃ) and guardians	monastery (vihār)	not expressed	Cœdès (1937-66: V, 23-24); FAD (2529: I, 35-39); Vickery (1998: 129-130, 259, 280-281, n. 66)
PCh 14/ K. 997	Noen Sa Bua, Prachin Buri prov./ Prachin Buri National Museum	11th c. (?) (probably 983 śaka = 1061 CE)	Old Khmer and Pāli	a certain <i>kamraten</i> Vuddhasiri	cows	temple	make a wish	FAD (2529: I, 179-186); Prapod (2010: 82-84); Revire (2012: 153-154)
LB 1/ K. 409	San Sung, Lop Buri prov./ National Library, Bkk	7th-8thc.	Old Mon	list of names and titles: Cāp Dyaṅgan, [.]idayya, Saṅgha Pathāk, upājhāy, Cāp Sumbaṅ, Ju Smac Yu (householder) and Cāp Inda	list of "slaves" ( <i>dek</i> ), robes, cattle, and carriages	"pagoda," i.e. temple, <i>stūpa</i> , or monastery ( <i>kyāk</i> )	merit ( <i>puŋya</i> )	Halliday (1930: 82-85, pl. VIII); Cœdès (1961: 7-9, inscr. XVIII); FAD (2529: II, 57-66); Brown (1996: 113-114)
NM 28/ K. 388	Hin Khon, Nakhon Ratchasima prov./current location unknown	8th-9th c.	Sanskrit and Old Khmer	a certain <i>rājabhikṣu</i> or <i>upādhyāya</i> (religious title) also known as Nrpendrādhipativarman (local prince or king)	10 monasteries ( <i>vihāra</i> ) with a list of "slaves" ( <i>dāsa</i> ), food, clothes, betel, garden, etc.	local Buddhist community (saṅgha)	merit ( <i>puŋya</i> )	Cœdès (1937-66: VI, 73-77); FAD (2529: I, 251-262); Kannika (1995: 279, pl. 34)
NM 31/ K. 389	Hin Khon, Nakhon Ratchasima prov./current location unknown	8th-9th c.	Sanskrit and Old Khmer	a certain <i>upādhyāya</i> of a royal monastery ( <i>rājavihāra</i> ); probably same as in NM 28/K. 388	list of "slaves" ( <i>dāsa</i> ), lands, cattle (10 pairs of cows), ritual implements, etc.	a temple or a deity? (vraḥ or vraḥ kamraten añ)	fruits of merit ( <i>vipākapuņya</i> ) + all beings reaching omniscience ( <i>sarvajña</i> ) and become a Buddha	Cœdès (1937-66: VI, 73, 78-79); FAD (2529: I, 263-266)
NM 24/ K. 400	Mueang Sema, Nakhon Ratchasima prov./Phimai National Museum	Face A (7th-9th c.) [Face B 790 <i>śaka</i> = 868 CE]	Sanskrit (Face A)	king of Śrī Canāśa (Face A)	10 male and female "slaves" ( <i>dāsa</i> and <i>dāsī</i> ), cattle (50 cows and 20 female buffaloes with their calves)	local Buddhist community (sangha)	reaching enlightenment (bodhi)	Cœdès (1937-66: VI, 83-85); FAD (2529: III, 23-29); Kannika (1995: 280, pl. 35)

# Table 1: Buddhist Donation Inscriptions Found in First-Millennium Thailand (Continued)

Inscr. no./ Inv. no.	Provenance/ Location	Date	Languages	Donors	Offerings	Recipients	Expected Results	References
SN 10	Ban Phanna, Sakon Nakhon prov./Ban Chiang National Museum	9th-10th c.	Old Mon	members of Mipa Suraya family	doors and windows (?)	a local monastery ( <i>vihāra</i> )	not expressed	Kongkaeo (2550)
HPK 1/33	Ban Thalat, Laos/ Vat Ho Phra Keo, Vientiane	8th-9th c.	Old Mon	a certain lord ( <i>trala</i> ) Waṇṇa	cattle (cows and buffaloes), list of "slaves" ( <i>dek</i> )	a "pagoda," i.e. <i>stūpa</i> , ( <i>kyāk</i> ) or Buddha (?)	merit (puŋya)	Gagneux (1972: 92-96); Guillon (1974: 341-344)

# Table 2: Buddhist Dedicatory Inscriptions Found in First-Millennium Thailand

Inscr. no./ Inv. no.	Provenance/ Location	Date	Languages	Category of Objects/Material/ Condition	Donors/ Beneficiaries	References
RB 1	Khao Ngu, Ratchaburi prov./ in situ	7th c.	Old Mon- Khmer and Sanskrit (?)	Buddha image/ cave wall/ fragmentary	Samādhigupta (?)	Cœdès (1961: 19, inscr. XXII); FAD (2529: I, 68-71); Revire (2012b: 94-95, fig. 2)
LB 5/K. 577	Wat Mahathat, Lop Buri/Phra Narai National Museum	7th-8th c.	Sanskrit	a " <i>pratimāmune</i> h" (i.e. Buddha image)/ stone	a certain nāyaka Ārjava, ruler ( <i>adhipati</i> ) of Taṅgur people, son of the king ( <i>īśvara</i> ) of Śāmbūka	Cœdès (1961: 4-5, inscr. XVI); FAD (2529: I, 229-231)
LB 9/K. 695	Wat Khoi, Lop Buri/ Wat Benchamabophit, Bkk	7th-8th c.	Old Mon (?)	Buddha image/ stone/fragmentary	a certain lord ( <i>tirla</i> or <i>trala</i> ) (?)	Cœdès (1961: 6, inscr. XVII); FAD (2529: II, 34-37)
LB 26	Thap Chumphon, Nakhon Sawan prov./Chai Nat Hospital (?)	8th-9th c.	Old Mon and Pāli [ <i>ye dhammā</i> cf. Table 4]	earthernware/ fragmentary	missing	FAD (2524: 38-40); FAD (2529: I, 244-246); Phimphan (2013: 13)
NW 7	Thap Chumphon, Nakhon Sawan prov./ Phra Narai National Museum, Lop Buri	8th-9th c.	Old Mon and Pāli [ <i>ye dhammā</i> cf. Table 4]	earthernware	a certain lord or master ( <i>trala</i> ?)	FAD (2524: 34-37); FAD (2529: II, 95-99); Bauer (1991a: 42); Bauer (1991b: 65-66); Phimphan (2013: 13)
unregistered/ NW i	probably Thap Chumphon, Nakhon Sawan prov./ Wat Nong Kradon, Nakhon Sawan	8th-9thc.	Old Mon and Pāli [ <i>ye dhammā</i> cf. Table 4]	earthenware	a certain lord or master (trala?)	Kannika & Phongkasem (2542); Phimphan (2013: 12-13)
unregistered/ 14/2536	Sung Noen dist., Nakhon Ratchasima prov./ Phimai National Museum	7th-8th c.	Old Mon	Buddha image/ stone/fragmentary	missing	unpublished

# Table 2: Buddhist Dedicatory Inscriptions Found in First-Millennium Thailand (Continued)

Inscr. no./ Inv. no.	Provenance/ Location	Date	Languages	Category of Objects/Material/ Condition	Donors/ Beneficiaries	References
unregistered/ DV 36 + DV 38	Mon Nang, Chon Buri prov./ Phra Narai National Museum, Lop Buri	8th-9thc.	Old Mon	moulded tablets/ fired clay/ fragmentary	a certain lord or master ( <i>trala</i> )	Bauer (1991b: 63)
AN 2	Mueang Bueng Khok Chang, Uthai Thani prov./unknown	7th c.	Old Mon or Prakrit (?)	stone	unknown	FAD (2529: II, 48-52)
MKh 2/ 712/2522	Na Dun, Maha Sarakham prov./ Khon Kaen National Museum	8th-9th c.	Old Mon with Khmer loan words	moulded tablet/fired clay	a certain king (kamraten pdai karom?)	FAD (2529: II, 77-81); Bauer (1991a: 42, 46, 66); Uraisi (1995: 198, fig. 2); Kannika (1995: 254, pl. 11)
MKh 3/ 1106/2522	Na Dun, Maha Sarakham prov./ Khon Kaen National Museum	8th-9th c.	Old Mon with Khmer loan words	moulded tablet/ fired clay/ fragmentary	a certain king (kamraten?)	FAD (2529: II, 82-84); Bauer (1991a: 42, 46); Uraisi (1995: 198, fig. 4); Kannika (1995: 255, pl. 12)
unregistered/ MKh i	Na Dun, Maha Sarakham prov./ Khon Kaen National Museum	8th-9th c.	Old Mon	moulded tablet/fired clay	a certain universal king ( <i>cakravarti</i> ) and a certain lord ( <i>tarla</i> ) Swayāga	Bauer (1991a: 66); Uraisi (1995: 198, fig. 6); Kannika (1995: 256, pl. 13)
unregistered/ MKh iii	Na Dun, Maha Sarakham province. Now at Khon Kaen National Museum	8th-9th c.	Old Mon	moulded tablet/fired clay	a certain "holy Pārvati" ( <i>kyākpāravati</i> )	Bauer (1991a: 80); Uraisi (1995: 198, fig. 9); Kannika (1995: 258, pl. 15)
unregistered/ MKh iv	Na Dun, Maha Sarakham province. Now at Khon Kaen National Museum	8th-9th c.	Old Mon	moulded tablet/ fired clay	a certain lord or master ( <i>tarla</i> )	Uraisi (1995: 198-199); Kannika (1995: 259, pl. 16)
unregistered/ MKh vii	Na Dun, Maha Sarakham prov./ Khon Kaen National Museum	8th-9th c.	Old Mon	moulded tablet/ fired clay/fragmentary	a certain lord or master (tarla)	Bauer (1991a: 66); Uraisi (1995: 198, fig. 8); Kannika (1995: 257, pl. 14)
KhK 16	Wat Non Sila, Khon Kaen prov./ in situ	8th-9th c.	Old Mon	sema/stone	a few men and women named Ko'Naḥ Pu, Ko'Māṅ Daraṅ, Ko' Maṅ Subāhu and Ko' Man Mreṅ	FAD (2529: II, 67-72); Bauer (1991a: 65, pls 16-18); Uraisi (1995: 199-200, fig. 15); Kannika (1995: 248, pl. 5)
KhK 17	Wat Non Sila, Khon Kaen prov./ in situ	8th-9th c.	Old Mon with Khmer loan words	sema/stone	a certain Mahā Yuta Draṅgana, Ko' Kuruṅ and Ko' 'Upajhāy Vrahma	FAD (2529: II, 73-76); Bauer (1991a: 65, pls 19-20); Uraisi (1995: 200, fig. 16); Kannika (1995: 249, pl. 6)
unregistered/ KhK i	Wat Non Sila, Khon Kaen prov./ in situ	8th-9th c.	Old Mon	sema/stone	a certain Jiv Pāl Man Bnaḥ	Bauer (1991a: 65-66, pl. 21); Kannika (1995: 250, pl. 7)
KhK 25	Phu Wiang mountain, Khon Kaen prov. / in situ	8th-9th c.	Hybrid Sanskrit (?)	Buddha image/ stone wall	unknown	Cha-em (2544)

Inscr. no./ Inv. no.	Provenance/ Location	Date	Languages	Category of Objects/Material/ Condition	Donors/ Beneficiaries	References
KS 1+ KS 2	Mueang Fa Daet, Kalasin prov./ current location unknown	8th-9th c.	Old Mon	moulded tablets/ fired clay	a certain ' <i>upgiliāy'ācāryya</i> (preceptor and/or teacher)	Prasan (2511: 110-111); FAD (2529: II, 85-94); Bauer (1991a: 66); Kannika (1995: 246-247, pls 3-4)
KS 4 + KS i (unregistered)	Mueang Fa Daet, Kalasin prov./ current location unknown	8th-9th c.	Old Mon	moulded tablets/ fired clay	a certain lord or master ( <i>tala</i> ) Āditya	Prasan (2511: 108-109)
KS 7	Wat Pho Chai, Kalasin prov./ in situ	8th-9th c.	Old Mon with Khmer loan words	<i>sena/</i> stone	a certain King Cak (kasmuń kyāk cak)	FAD (2529: II, 100-103); Bauer (1991a: 43); Uraisi (1995: 200, fig. 18); Kannika (1995: 245, pl. 2)
unregistered/ KS ii	Wat Sawang Watthanaram, Kalasin prov./ <i>in situ</i>	8th-9th c.	Old Mon with Khmer loan words	<i>sema</i> /stone/ fragmentary	a certain king or prince (ksmui)	Bauer (1991a : 46); Uraisi (1995: 200, fig. 19); Kannika (1995: 244, pl. 1)
KhK 19	Ban Don Kaeo, Udon Thani prov/Khon Kaen National Museum	8th-9th c.	Old Mon	<i>sema/</i> stone/ fragmentary	missing	Bauer (1991a: 66); Uraisi (1995: 200, fig. 20); Kannika (1995: 260, pl. 17)
ChY 1/ K. 404	Phu Khiao, Chaiyaphum prov./ Chaiyaphum City Hall	9th-10th c.	Sanskrit	stone/fragmentary	KingJayasinghavarman	Cœdès (1937-66: VII, 73); FAD (2529: III, 57-59)
ChY 4/ K. 965	Ban Hua Khua, Chaiyaphum prow/6th FAD Regional Office, Nakhon Ratchasima	8th-9th c.	Sanskrit	<i>sema/</i> stone/ fragmentary	a certain Candrādityā	Cœdès (1958: 131); Cha-em (2537b)
ChY 5	Kaset Sombun, Chaiyaphum prov/6th FAD Regional Office, Nakhon Ratchasima	913 <i>śaka</i> (= 991 CE)	Sanskrit	<i>sema/</i> stone/ fragmentary	the monk ( <i>bhilisu</i> ) Amarasimha Cha-em (2537a)	Cha-em (2537a)
unregistered/ ChY i	Wat Phra That Nong Sam Muen, Chaiyaphum prov./in situ	8th-9th c.	Old Mon with Khmer loan words	<i>sema/</i> stone/ fragmentary	a certain king ( <i>kurui</i> )	Bauer (1991a: 60, pl. 14); Uraisi (1995: 201, fig. 22); Kannika (1995: 252, pl. 9)
unregistered/ ChY ix	Ban Kut Ngong, Chaiyaphum prov./in situ	8th-9th c.	Old Mon	<i>sema</i> /stone/ fragmentary	a certain teacher ('ācāryya)	Bauer (1991a : 60, pl. 8)
unregistered/ ChY xi	Wat Phra That Nong Sam Muen, Chaiyaphum prov./ <i>in siu</i>	8th-9th c.	Old Mon with Sanskrit loan words	<i>sema</i> /stone/ fragmentary	a certain king (śrīrāja)	Bauer (1991a: 60-61, pl. 13); Uraisi (1995: 201, fig. 22); Kannika (1995: 253, pl. 10)

# The Paticcasamuppāda and the Four Truths

"Dependent Origination"<sup>23</sup> (Skt, *pratītyasamutpāda*; P., *paticcasamuppāda*) is a Buddhist description of how the human state of suffering comes about and how one can extinguish it. This exposition is given in a verse usually divided into twelve links and contains a significant teaching of the Buddha closely connected to his awakening experience. It is found throughout all Buddhist traditions and their correlated texts, including the Pāli Canon.<sup>24</sup> For example, the Theravāda tradition portrays Sāriputta, the Buddha's chief disciple, as saying that "whoever sees conditioned genesis [i.e. *paticcasamuppāda*] sees *dhamma*, whoever sees *dhamma* sees conditioned genesis" (M I 190f; trans. Horner 1954: 236-237).

According to the Udāna, the genesis of the verse took place with the Buddha at Uruvelā, at the root of the bodhi-tree on the bank of the river Nerañjarā, just after he had reached enlightenment (Ud 1-3). While the Lord was seated there for seven days and experiencing the bliss of liberation, he suddenly emerged from that concentration in the first watch of the night and paid attention to "dependent co-arising in direct order and reverse order" (trans. Masefield 1994: 3). Seven weeks after his enlightenment, the Buddha decided to preach the doctrine at the Deer Park in Isipatana (i.e. Sarnath, India). This "First Sermon" or Dhammacakkappavattanasutta (Discourse on "Turning the Wheel of the Law") explained to his first disciples the path to salvation via the so-called "Four Noble Truths" (cattāri arivasaccāni). Accordingly, the Buddha's diagnosis of life sees everything as suffering (dukkha); suffering has an origin (samudaya), namely craving (tanhā), which can be extinguished (nirodha) only through the "Path" (magga). In this specific context, a description of the "Four Truths" is also understood in terms of the causal theory of Dependent Origination since this complex chain of causation always gives rise to suffering. Alternatively, the deactivation of any of the twelve links of this chain is bound to break the causal process of samsāra and to eliminate suffering, the ultimate soteriological goal of Buddhists.

That both Dependent Origination and the Four Truths are found inscribed in Pāli on some *cakras*, *cakra* pillars or *cakra* bases from the Dvāravatī realm (e.g. Brown 1996: 99-113; Phasook 2008: 24-29; Gallon, this volume, fig. 3) is probably not pure coincidence and the wheel symbolism should be clear.<sup>25</sup> Yet, as Robert Brown wrote regarding the spoke-fragment found at Wat Mahathat, Lop Buri, inscribed with a portion of the *paticcasamuppāda* (LB 14):

[...] it is interesting that an inscription has been used on the wheel that refers to the Buddha before he went to Sārnāth, and that gives a doctrine that is only thought, not yet taught, by the Buddha. The chain of causation can be seen, however, as proposing, only in more detail, the same arguments for the origin of suffering and for its cessation as in the four noble truths. (1996: 104)

More precisely, the second truth concerned with the arising of suffering is simply explained by the *paticcasamuppāda* in direct order (*anuloma*), while the third truth of cessation of suffering is defined by

Table 2: Buddhist Dedicatory Inscriptions Found in First-Millennium Thailand (Continued)



Figure 8: Pāli inscribed spokefragment found at Sap Champa, Lop Buri province. Currently located in the Phra Narai National Museum, Lop Buri, inv. no. 86/2529 [Photograph by Nicolas Revire]. Dependent Origination in reverse order (*pațiloma*). A similar inscribed spoke-fragment has been found at Sap Champa, Lop Buri province (Phuthon 2529: 18, fig. 14), and is now kept at the Phra Narai National Museum in Lop Buri **[Figure 8]**. One side of the inscribed spoke tentatively reads the following passage from the verse in reverse order:<sup>26</sup>

Face A: (1) (ta)[n](hā)[niro](dhā) (2) upādānanirodho

Brown identifies another surviving sample where other excerpts of the *paticcasamuppāda* possibly appear. It is inscribed on a circular stone base or pedestal from Si Thep (PhCh i) which may or may not have belonged to a wheel (1996: 105, fig. 41). A further unregistered Pāli inscription from Si Thep, similarly found on a circular stone base or pedestal (FAD 2550: 127) and possibly dating to the seventh or early eighth century on paleographic grounds, argues for the same identification with Dependent Origination despite its fragmentary aspect. Since I have not been able to see the piece myself, my transliteration of the inscription is from the eye-copy **[Figure 9]** as follows:<sup>27</sup>

(1) [...] vedanānirodho vedanānirodhā taņhāniro(dho) ti[...]
 (2) [...] (pa)ccayā jarāmarana[m] sokaparidevadukkhadom[...]

If the reading is correct, then a good portion of the first line (vedanānirodhā tanhānirodho) is identical with that of Face B from the Wat Mahathat spoke-fragment discussed above (LB 14) and translated as "from the cessation of feeling [vedanā] there is a cessation of craving [tanhā]" (Brown 1996: 104). In this light, I suspect that the final ti in the eve-copy is an error. The last portion can indeed be reconstructed as  $tanh\bar{a}nirodh\bar{a}$  where only the initial t- subsists, probably followed by upādānanirodho as in Face A of the Sap Champa fragment (86/2529); the rest of the sentence would then be upādānanirodhā bhavanirodho, bhavanirodhā jātinirodho and so on, that is, "from the cessation of craving (tanhā), there is a cessation of grasping (upādāna); from the cessation of grasping, there is a cessation of becoming (bhava); from the cessation of becoming, there is a cessation of birth  $(i\bar{a}ti)$ " and so forth. The second line connects to the conditions (*paccavā*) that lead to suffering (*dukkha*) with reference to old age (jarā), dving (marana), grief (soka), and lamentation (parideva). Had the break not occurred, we should read jāti- (birth) on the left side, preceding -paccayā, and the compound -domanassupāyāsā on the right side, that is dejection and despair. According to the theory of Dependent Origination, birth is a prerequisite of old age, sickness, and death, and is fraught with sorrow, pain, and disappointment. This line basically quotes the *paticcasamuppāda* in direct order pertaining to the cause of suffering while the first line is in reverse order explaining the cessation of suffering.

Examples of other Pāli inscriptions, all found in central Thailand, are listed in **Tables 3 and 4** and are located on **Map 1**. I will deal with the *ye dhammā* inscriptions separately below, but besides the Dependent Origination and the Four Truths – always inscribed on stone *cakras* or their related components – other canonical verses appear, namely from the *Udāna* (Ud 1ff; also found in Vin I 2)<sup>28</sup> and from the *Dhammapada* (Dhp 153f, 191).<sup>29</sup> For example, one inscribed pillar (LB 17),

possibly two (LB 22), found at Sap Champa, jointly displays Ud 1-3 and Dhp 153-154. We have already seen the canonical connection between these verses from the *Udāna*, as the Buddha sat under the *bodhi*tree just after reaching enlightenment, and the origin of the *pațiccasamuppāda*. Accordingly, Ud 1, as we have it in Pāli but also in other Sanskrit parallels, came to be regarded in all Buddhist traditions as the first "stanza of joy" or *udāna* expressed by the Buddha (Skilling 2002: 164-167, 175). There is no narrative description in the Pāli Canon, however, as to where and when Dhp 153-154 was uttered. Despite this fact, and for some unknown reason.

Despite this fact, and for some unknown reason, later commentarial sources (e.g. Dhp-a III 127-129; Sp 17; Sv 16; Ud-a 4) seem to consider that Dhp 153-154 was the real "first utterance" of the Buddha (*pathamabuddhavacanam*), thus seemingly giving it precedence over Ud 1. One of the justifications given for accommodating such a view (Pi I 13) is that the *Dhammapada* verse was only spoken in the mind whereas that from the Udāna was uttered in actual speech but only at a later stage. The inscription found at Phromthin Tai (LB 24), also in Lop Buri province, is equally quoted from Ud 1 as well as from the Suttanipāta (Sn 558) which likewise relates to an episode of the life of the Buddha shortly following his enlightenment when he meets and talks with the Brahmin Sela (Brown 1996: 118-119) [Figure 10]. The same verse (Sn 558) is also attested on Face C of a four-sided inscription from Nakhon Pathom province (NTh.i; Skilling 1997: 126). The importance of these verses for the Theravadins is obviously that they were conceived by many as among the "first words" recited by the newly enlightened being.

All in all, I totally adhere to Brown's own assertion (1996: 115) regarding the corpus of Pāli inscriptions found on Dvāravatī wheels and pillars:

The passages used from these [Pāli textual] sources deal with the Buddha's realization of the chain of causation and the four noble truths, Śākyamuni's fundamental understanding that coincided with his enlightenment at Bodhgayā, and with the subsequent first teaching of this insight at Sārnāth. The appropriateness of the subject to the wheels is apparent, yet it is important to realize that the verses were carefully selected, and in some cases edited, from these sources; particularly interesting are the stanzas from the *Dhammapada*, placed beside the parallel "first" words of triumph [i.e. Ud 1] of the just enlightened Buddha on the Sab Champa pillar.

That these inscriptions may have been edited, adapted, or shortened sections from the Pāli Canon is interesting. Cœdès (1956: 225-226), for instance, had already observed that the Four Truths inscribed on the Nakhon Pathom wheel (KTh 29) are not actual excerpts taken verbatim from the *Tipițaka* as we have it. On the contrary, Skilling (1997: 135-150) has confirmed that various details related to the truths as we find them in several other inscriptions (SPh 1; ChN 14; ChN 15; LB 17; LB 22) are found only in later fragments of commentaries or literature from the



Figure 9: Pāli inscription from Si Thep on a circular stone base or pedestal (0996) [Courtesy of the "Inscriptions in Thailand Database Project"].



Figure 10: Pāli inscription found at Phromthin Tai, Lop Buri province (LB 24). Currently located in the Phra Narai National Museum, Lop Buri [Photograph by Nicolas Revire].

fifth century onwards. It is also possible that the Dvāravatī inscriptions quote from a different source which is now lost to us (Prapod 2010: 77) or else, as Brown suggests (1996: 103), "that the inscriptions were composed from memory and would not necessarily have exact textual counterparts."

# The Ye Dhammā Verse

This canonical *gāthā* or verse scarcely needs an introduction. Technically, it is not *buddhavacana* or the word directly "uttered" by the Buddha although it has assumed such a function in all Buddhist traditions. The Pāli *Vinaya* refers to the successive conversions of Sāriputta and Mogallāna, two of the most prominent disciples of the Buddha, just by hearing this stanza first uttered by the venerable Assaji (Vin I 39f). Here is the canonical four-line verse or "terse expression of the *dhamma*" recorded on that occasion in Pāli, followed by its English translation:

Ye dhammā hetuppabhavā Tesam hetum tathāgato āha | Tesañ ca yo nirodho Evamvādī mahāsamano ti ||

Those things which proceed from a cause, Of these the truth-finder [i.e. Tathāgata] has told the cause, And that which is their stopping – The great recluse has such a doctrine. (trans. Horner 1951: 54)

It is said that, having heard this verse and the purport of the Dharma in brief, both Sāriputta and, later, Mogallāna immediately attained the "deathless" state, that is, the knowledge that lead to liberation or the Dharma-eye (*dhammacakkhu*), before joining the Buddha's Order (Horner 1951: 52-56). The connection here between the awakening experience of the two monks and the verse is explicit. The *ye dhammā gāthā* was the source of their enlightenment as it represents a shorter version of the *paticeasamuppāda* and allows one to see the Four Truths referred to above. In the following centuries, its written presence at any particular Buddhist site rendered, by extension, that site equal to the traditional source of enlightenment. It therefore began to be inscribed in variant recensions and languages on *stāpas* (or enshrined therein) and on images and miniature clay tablets and *caityas* from the fifth or sixth century CE onwards, first in northern and western India (Boucher 1991), then beyond in ancient Myanmar and Thailand, the Malay Peninsula,

Figure 11: Ye dhammā inscription on a brick from Nakhon Pathom province. Currently located in the Bangkok National Museum, inv. no. 22/10 [Photograph by Nicolas Revire].



southern Vietnam, and Indonesia (e.g. Skilling 1999, 2003-04 and 2008; Griffiths 2011: 142-146, figs 1a-b).

The verse thus came to be abundantly found, albeit exclusively in Pāli, in the Dvāravatī cultural sphere inscribed, stamped, or engraved on several objects of different material: on clay tablets, on bricks or terracotta fragments and stone sculptures of *caityas*, *cakra* pillars, Buddha images or pieces of stone tablets. These seventh-eighth century inscriptions clearly attest to the pan-Asian Buddhist practice of writing the sacred  $g\bar{a}th\bar{a}$  on various artefacts.<sup>30</sup> An up-to-date list of *ye dhammā* inscriptions found in central Thailand is given in **Table 4**. According to Skilling's textual classification framework (1999: 180-184), they fall in two distinct groups depending on whether the first word of the second line is *tesam*, as in the canonical version (see above), or *yesam*, a regional peculiarity only attested so far in central Thailand.



recent discovery published in Thai occurs on another stone fragment from Sap Champa (LB 54), and reads as follows on two sides of the stone (Amon 2551: 56-60):

New *ve dhammā* inscriptions continue to be found in Thailand. One

Face A: (1) [...] hetum (2) [...] āha

# Face B: (1) tesañ ca yo [...] (2) nirodho ca [...]

Being fragmentary, it cannot be said with certainty in which group the inscription falls,<sup>31</sup> but we can notice, however, a variant reading in line 2 of Face B with the addition of *ca* after *nirodho*. At least one inscription (NTh 10), possibly two (LB 16), offer a similar variant reading in Nakhon Pathom and Lop Buri provinces; both belong to the *yesam* group (Skilling 1999: 181).

Several other ye dhamma inscriptions are still unpublished. One inscription on a brick said to be from Nakhon Pathom province, currently kept in the Bangkok National Museum, is nearly illegible but the syllable ye at the beginning of the second line is clear and allows us to classify it in the yesam group [Figure 11]. In addition to the few bilingual terracotta fragments (Mon and Pali) allegedly from Thap Chumphon, Nakhon Sawan province (LB 26, NW 7, NW i), two similar earthenwares reported from Nakhon Pathom province are solely inscribed in Pali with the *ye dhamma gatha* [Figure 12; Ray, this volume, fig. 4]. Although, a close reading was not possible at the time of writing, these inscriptions seem to fall in the yesam group.<sup>32</sup> In addition to the corpus, a broken image in stone, presumably a standing Buddha of which only the feet remain, has a nearly illegible inscription on the pedestal (LB i). Though the few letters that remain on the first line allow for identification with the ubiquitous verse, yet it is not sufficient to say whether it belongs to the tesam or yesam group [Figure 13].

Last but not least, a significant number of clay moulded tablets bearing the *ye dhammā* gāthā in Pāli have been found in central Thailand. While the exact number and precise provenance of these tablets often elude us, suffice it to say that they are mainly of two kinds, both rectangular plaques with a complex iconography depicting various figures around a central seated Buddha. The first type has predominantly been found in Nakhon Pathom at Wat Phra Men (Dupont 1959: I 47-49, II figs 34-40) **[e.g. Figure 14]**.<sup>33</sup> On these tablets, the verse is directly stamped along the base, below the main scene. Figure 12: Miniature earthenware from Wat Phra Ngam, Nakhon Pathom, inscribed with the ye dhammā verse. Currently located in the Phra Pathom Chedi National Museum, Nakhon Pathom, im. no. 305/2519 [Photograph by Nicolas Revire].

Figure 13: Broken image in stone (standing Buddha?) bearing the ye dhammā inscription on the pedestal (LB i). Currently located in the Phra Narai National Museum, Lop Buri [Photograph by Nicolas Revire].



Figure 14: Clay moulded tablet bearing a truncated ye dhammā verse, from Wat Phra Men, Nakhon Pathom. Currently located in the Bangkok National Museum, inu. no. DV 6-2 [Photograph by Nicolas Revire].



and is repeatedly made from the same mould. According to Pierre Dupont (1959: 49), it reads as follows in two lines:

- (1) ye dhammā hetupprabhavā
- (2) tesam hetum tathāgato āha

It is noteworthy that only the first part of the verse (l. 1-2) is given here, leaving the rest (l. 3-4) intentionally missing. Although the reading on the tablets is rather obscure, a double *pa* and a subscript *ra* seem to appear, making the compound *-ppra* in *hetupprabhavā* clear. The inscription would thus be slightly sanskritised since *hetuppabhavā* is expected in "correct" Pāli. The verse apparently falls in the *tesaṇ* group, but the reading is hard to confirm towards the end of line 2 and is therefore not absolutely certain. For Dupont, the inscription of *tathāgato* is presented in a more condensed way almost as a monogram to engrave all signs on the material available and it is possible that we are dealing here with an abridged version of the stanza.

The second type of tablet bearing the entire *ye dhammā* gāthā has been mainly found in Ratchaburi, Nakhon Pathom, and Suphan Buri provinces.<sup>34</sup> In this group of tablets, the verse is always inscribed on the back in a rather cursive hand and thus difficult to read, probably made while the clay was still wet. The reading proposed here is based on a fine sample kept in the collection of Wat Matchimawat, in Songkhla, but probably originating from Thailand's central region **[Figure 15b]**:

- (1) *ye dhammā hetuppabhavā*
- (2) yesam hetum tathāgato
- (3) āha tesañ ca yo niro-
- (4) -dho evamvādī mahāsama-
- (5) *-no*

Probably for reasons of equal distribution of *akṣaras* over lines, the inscription occupies here five lines, instead of the usual four, with a slight deviation of the expected final syllables in lines 2, 3 and 4. It belongs to the *yesam* group with a variant reading at the end of the verse, omitting the *ti* after *mahāsamano* which is spelt with a dental *n* rather than the standard retroflex *n*. This spelling peculiarity is rather common with other occurrences of *ye dhammā* inscriptions belonging to this *yesam* group (e.g. NTh 5, LB 26, NW 7, NW i) and cannot, therefore, be simply accounted as scribal error.

An overall pattern seems to emerge in the regional distribution of the two variant Pāli spellings of the sacred verse in Thailand **[Table 4]**. While we find most inscriptions from the canonical group (tesam) restricted to Nakhon Pathom with just one tesam specimen from Phetchaburi (PhB 2) and another one from U Thong (SPh 2), the inscriptions from the yesam group appear to be far more numerous and widespread in the central provinces of Ratchaburi, Nakhon Pathom, Suphan Buri, Nakhon Sawan, Lop Buri, and as far away as Si Thep in Phetchabun (LB 23) (Ray, this volume, fig. 5), and possibly Mueang Sema in Nakhon Ratchasima (K. 987) and Nong Bua Daeng in Chaiyaphum (K. 1166?). This basic observation could indicate that the two recensions also have some distinct geographical realities with the latter yesam inscriptions marking the furthest extension of ancient Pāli literacy in northeast Thailand.



Figure 15a: Obverse of a clay moulded tablet bearing the yc dhammā verse on its reverse (Fig 15b), probably originating from central Thailand [Photograph by Nicolas Revire].



Figure 15b: Reverse of Fig 15a. Currently located in the collection of Wat Matchimawat, Songkhla, inv. no. MW/458 [Photograph by Nicolas Revire].

# The Ritual and Cultic Functions of Pāli Verses

The Pāli inscriptions studied above, all closely related to the Four Truths of Buddhism, point to a well-known group of discourses by the Buddha frequently presented as "citation" or "quotation inscriptions" (Skilling 2002; Prapod 2010: 72-81).

Presumably, the content of these passages, a written expression of the Dharma, would be used in a context in which it would be unseen by most people. The various verses would manifest a presence believed to be highly beneficial for the patrons, donors, and worshippers and would extend its protection to the place or object that contained it. In this vein, the *ye dhammā gāthā* should be understood as an abbreviated version of the *pațiccasamuppāda* which is, in turn, intimately related to the Four Truths preached by the Buddha at Sarnath.<sup>35</sup> It does not really matter how long or complete the sacred verses were, and we certainly have seen examples of truncated versions above. In other words, these selected Buddhist texts may well be fragmentary and, yet, embody the whole Dharma.

The *gāthās* used for such ritual purposes and inscribed on material objects often no longer functioned as a means for communicating their verbal contents. On the contrary, these inscriptions were frequently "hidden" in small characters, often on the back of the artefacts, be it a Buddha image or a miniature clay tablet often enshrined in a larger *stūpa*. At any rate, common people could not read the inscriptions and only a few scholars or learned monks equipped with the necessary language skills and paleographic knowledge could decipher or engrave them.

There is ample archaeological evidence, however, that the practice of ritually inscribing and presumably reciting such gāthās on clay, brick, stone, metal objects, and so on, was well established in South Asia by the middle of the first millennium CE and slightly later in Southeast Asia. The engraving of such verses was probably conducted by ritual specialists, but whether these were lavmen or monastics cannot be said. In recent decades, a number of scholars have also underlined the sacralising power of inserting these verses in caityas, stūpas, Buddha images, or other sacred items, as part of a consecrating ceremony devised to empower the artefacts (Boucher 1991: Bentor 1996: 42, 114-117, 217; Skilling 2008: 507). The paticcasamuppada and ve dhamma gathas, in particular, have been seen as closely connected to stupa construction and the cult of relics. Because they epitomise the very essence of the Buddha's teaching, they may also represent the notion of *dharmakāya* (i.e. "Dharma-body) or dharmadhātu (i.e. "Dharma-relic") and thus echo the earlier equation, first expressed in the Pali Canon, as "He who sees me [i.e. the Buddha] sees the Dhamma; he who sees the Dhamma sees me" (S III 120).<sup>36</sup> In other words, the verses must be honoured and respected as if they were a relic since they may represent the Buddha himself.

Once these  $g\bar{a}th\bar{a}s$  were accepted as a substitute for the Buddha, they could then be inscribed onto the artefacts at a particular spot. The inscription, along with its incantation, would presumably have the effect of authoritatively legitimising the object and that spot as a sacred and cultic centre. Skilling (2002: 173) has proposed "ritual practices" to answer the question as to why identical Pāli texts were inscribed at different sites throughout central Thailand and neighbouring Myanmar and Cambodia during the first millennium CE. In a different fashion, Cœdès had made clear in his seminal article on so-called "votive tablets" that the *ye dhammā gāthā* "must rapidly have acquired in the eyes of the ancient Buddhists a sort of magic virtue, and may well have seemed to them a quite irresistible charm for the conversion to the faith of any who had not heard it" (1926-27: 6). For all these reasons, these verses seem to represent something more than mere "citation inscriptions" excerpted from the Pāli Canon. Because of their shared sacredness, it appears that these stanzas found only in Pāli in the Dvāravatī cultural sphere, as well as in Prakrit and Sanskrit elsewhere in Southeast Asia, were deliberately chosen for their "ritual" and "cultic" nature, and thus also for their alleged supernatural power.<sup>37</sup>

In this light, it might be worth recalling Lunet de Lajonquière's early interpretation of the Dvāravatī wheels (1909: 36, fig. 17) as possibly serving the function of *sema* stones, that is, to mark the consecration of a Buddhist sanctuary. Although this theory was hastily rebutted by Cœdès (1956: 225), it could make some sense if we accept their frequent association with the Pāli verses described above as having the ritual and cultic function of sacralising an artefact or a monument which, in turn, may sanctify a religious spot or piece of land.

Lastly, this also brings us to the question of Pāli literacy at the time compared to the situation today. Interesting observations can certainly be made about the ancient use of Pāli language in certain rituals in the past and today. A few Buddhist scholars (e.g. Skilling 2002: 166, 173-174; Swearer 2004: 88ff, 107, 115-118, 218-219) have observed that chanting certain sacred Pāli verses or *parittas* – some of which are already attested in the Dvāravatī culture (i.e. Ud 1ff; Dhp 153f) – occurs regularly during consecration of Buddha images and *chedis* in Thailand and is seen as a form of protection against spirits, to ward off evil or deflect negative power. This may well be an indication of ritual continuity from the first millennium to this day.

# Copying and Reciting Sacred Pāli Verses as an Act of Merit

We have seen that an investment in ritual actions may eventually yield great results. An additional important function of these sacred verses concerns the religious merit generated by copying and reciting them. The merit accrues for both the scribe who engraves them and the person who recites the  $g\bar{a}th\bar{a}s$ . We do not know when and where exactly this practice was first employed in India, but Yijing, in the seventh century, has described this tradition as concomitant with the making of Buddha images:

The priests and the laymen in India make *caityas* or images with earth, or impress the Buddha's images on silk or paper, and worship it with offerings wherever they go. [...] Any one may thus employ himself in making the objects of worship. Again, when the people make images and *caityas* which consist of gold, silver, copper, iron, earth, lacquer, bricks, and stone, or when they heap up the snowy sand (lit. sand-snow), they put in the images or *caityas* two kinds of *sarīras* [i.e. relics]. 1. The relics of the Great Teacher. 2. The *gāthā* of the Chain of Causation [i.e. *ye dhammā* or *paiiccasamuppāda gāthās*]. [...] If we put these two in the images or *caityas*, the blessings derived from them are abundant. This is the reason why the *sātras* praise in parables the merit of making images or *caityas* as unspeakable. (Takakusu 1998: 150-151; with minor stylistic changes)

By this time, copying a verse  $(g\bar{a}th\bar{a})$ , just as copying an image  $(pratim\bar{a})$ , was clearly perceived as a beneficial act of merit in itself, not only for the scribe or the image-maker but also for the donor who sponsored the act of copying. This is also to say that this practice of duplicating a religious object was no longer motivated by the intention of preserving the "exact word" or "likeness" of the Buddha but rather was primarily aimed at merit-making.<sup>38</sup> Hence, producing and copying a large number of Buddha images, for example miniature clay tablets or earthenwares (Guy 2002; Skilling 2009: 108-109), and engraving them with such Pāli verses will necessarily result in great benefits.

# Conclusion

The analysis of these Buddhist practices and rituals as gleaned from the archaeological and epigraphic records of Dvāravatī and to a lesser extent its neighbouring cultures has now come full circle. In the spirit of reassessing past scholarship, I have attempted to re-examine the corpus of ancient material and inscriptions from both a historical and doctrinal angle. The study has clearly demonstrated the essential Buddhist ideologies of gift-giving and dedicating that are conducive to meritmaking, often directed toward a good "rebirth" in a future existence. The purpose of accumulating merit has become the most important goal of the modern follower of Buddhism in Thailand.

We have also seen how the crucial ritual elements include the act of producing and, at times, inscribing the objects with certain sacred verses deemed most effective. This also adds to our understanding of the essential Buddhist approaches to merit-making. Particularly instructive are the regional distribution of such artefacts and the language of the epigraphs [Map 1]. Among the Buddhist artefacts found in profusion are the objects inscribed in Pali, from present-day central Thailand [Tables 3-4], or in Old Mon, mainly from the contemporary northeast [Table 2]. Sanskrit and Old Khmer are also attested in a few donation inscriptions [Table 1] found in the outskirts of the Dvāravatī cultural sphere where cases of regional bilingualism (e.g. Mon-Pāli, Mon-Sanskrit, Mon-Khmer) are indicated. These linguistic trends may be an indication of the two major ethnic groups living in the region (i.e. Mon and Khmer) and of the sacred languages used (Pali and Sanskrit). Although it cannot be definitely established that the Dvāravatī rulers of central Thailand were Buddhists, several inscriptions show that a significant portion of the population at least supported Buddhist temples and monasteries by the seventh and eighth centuries. This is a clear indication that Buddhism firmly took root in Thailand only from this period onwards and not as far back to the time of King Asoka, circa 250 BCE, as often accounted in local traditions and school textbooks (Revire 2011).

FAD (2524: 26-27); FAD (2529: I, 103-105); Brown (1996: 113); U-tain (2556) (2529: I, 237-240); Brown (1996: 118-Prapod (2010: 78-79) Bauer (1991a: 48, 52-55; pls 1-3); Skilling (1997: 133-151); Phasook (2008: 29, fig. 36) Brown (1996: 103, fig. 33); Phasook (2008: 21 FAD (2529: I, 241-243); Brown (1996: 111) Uraisi & Anchana (1975); FAD (2529: I, 116-122); Brown (1996: 109-111); Skilling (1997: 149-150); Phasook (2008: 26-27); Prapod (2010: 78) Boisselier (1961); FAD (2529: I, 123-125); Brown (1996: 103, fig. 33); Phasook (2008: 98-99); Brown (1996: 108, ng (1997: 149-150); Cœdès (1956); FAD (2529: 1, 59-64); Brown (1996: 99-103, figs 5a-b); Skilling (1997: 149-150); Phasook (2008: 24-25); Prapod (2010: 76-77) Bauer (1991a: 48, 52-55; pl. 4); Skilling 1997: 146-148) EAD (2529: I, 98-99); Brown (1996: 10 fig. 64b); Skilling (1997: 149-150); FAD (2548: 136); Phasook (2008: 26); EAD (2529: I, 109-111); Brown (1996: 104-105); Phasook (2008: 28) Phuthon (2529: 18, fig. 14) References Prasan (2509: 82); Skilling (1991: 243-244) Naiyana *et al.* (2534); Skilling (1997: 123-133) FAD ( 119); 1 list of the Four Truths and the 12 links of Dependent Origination (Face A); list of the 37 factors conducive to enlightenment (Face B); Sn 558 (Face C); Dhp 191 and D II 123 (Face D) ö ä Dhp 191(Face A); [*je dhammā* on Face ] cf. Table 4: SP 2] First Sermon/Four Truths **Contents of Citations** First Sermon/Four Truths First Sermon/Four Truths *mā*; Four Truths; ; Dhp 153f (?) Dependent Origination Dependent Origination *e dhammā*; Four Truths; Ud 1-3; Dhp 153f on the Commentary on the Four Truths First Sermon; Commentary on Four Truths (?) *ye dhammā*; Fou Ud 1-3; Dhp 1 Ud 1; Sn 558 Truths Jur Category of Objects/ Material/Condition fragmentary stone slab/fragmentary brick/fragmentary ntary *cakra* pillar/stone/ fragmentary /stone nacakra/stone/ nacakra/stone, akra pillar/stone/ *cakra* pillar/stone/ fragmentary cakra spoke/stone cakra pillar/stone akra base/stone fragmen fragmentary spoke. bar stone 7th-8th c. 7th-8th c. 7th-8th c. 7th-8th c. J. с, 7th-8th c. с; с; ن. 7th-8th c. 7th-8th c. 7th-8th c. Date 7th-8th 7th-8th 8th-9th 8th-9th 7th-8th Pathom Khampaeng Saen, Nakhon Pathom prov./ Phra Pathom Chedi National Museum Wat Mahathat, Lop Buri/ Phra Narai National Museum Sap Champa, Lop Buri prov/ Phra Narai National Museum Sap Champa, Lop Buri prov./ Phra Narai National Museum Phromthin Tai, Lop Buri prov./ Phra Narai National Museum Ban Hang Nam Sakhon, Chai Nat prov./current location n Sakhon, current location Wat Mahathat, Lop Buri/ Phra Narai National Museum Sap Champa, Lop Buri prov./ Phra Narai National Museum Sap Champa, Lop Buri prov./ Phra Narai National Museum Sap Champa, Lop Buri prov./ Phra Narai National Museum Nakhon Chaisi, Nakhon Path prov./Culture Hall Project, Silpakorn University, U Thong, Suphan Buri prov. U Thong National Museum Phra Pathom Chedi, Nakhon Pathom/Bangkok National Museum Provenance/ Nakhon Pathom (?) Ban Hang Nam S Chai Nat prov./c unregistered/ NTh i unregistered/ SPh i unregistered/ 86/2529 LB 17/ . 2166-67 Inscr.no./ SPh 1/ 37/2541  $\mathrm{KTh}~29$ ChN 14 ChN 15 LB 14 LB 19/ L. 2161 LB 22 LB 24 LB 8

Table 3: Pāli Citation Inscriptions Found in First-Millennium Thailand  $(\operatorname{Except} Ye\ Dhamma)$ 

# Table 3: Pāli Citation Inscriptions Found in First-Millennium Thailand (Continued)

Inscr.no./ Inv. no.	Provenance/ Location	Date	Category of Objects/ Material/Condition	Contents of Citations	References
unregistered/ PhCh i	Si Thep, Phetchabun prov./ Ramkhamhaeng National Museum, Sukhothai		circular base or pedestal(?)/stone/ fragmentary	Dependent Origination	Brown (1996: 105, fig. 41); Skilling (2002: 168-169); FAD (2550: 126)
unregistered/ 0996	Si Thep, Phetchabun prov./ current location unknown	7th-8th c.	circular base or pedestal (?)/stone/fragmentary	Dependent Origination	FAD (2550: 127)
unregistered/ 82.183	Si Thep, Phetchabun prov./ Newark Museum, NJ (USA)	7th-8th c.	dharmacakra/stone	First Sermon/Four Truths	Brown (1996: 106-108, figs 6a-b)

# Table 4: Ye Dhammā Inscriptions Found in First-Millennium Thailand

Inscr. no./ Inv. no.	Provenance/ Location	Date	Category of Objects/Material/ Condition	Recension Type	References
RB 2	Wat Plaeng/Wat Mahathat, Ratchaburi prov.	7th-8th c.	Buddha image (head stolen)/stone	yesam group (variant ending: mahāsamano ti)	FAD (2529: I, 72-74); Skilling (1999: 173, 180); Skilling (2003-04: 274-275, figs 1-3)
PhB 2	provenance unknown/ rubbing at National Library, Bkk	7th-8th c.	probably stone/lost	tesam group	FAD (2529: I, 65-67); Skilling (1999: 180)
NTh 2/ 76/2519	Phra Pathom Chedi, Nakhon Pathom/ Phra Pathom Chedi National Museum	7th-8th c.	stone slab/ fragmentary	tesam group	FAD (2529: I, 75-78); Skilling (1999: 180); FAD (2548: 195)
NTh 3	Phra Pathom Chedi, Nakhon Pathom/ Bangkok National Museum	7th c.	stone <i>caitya/</i> fragmentary	tesam group	FAD (2529: I, 79-82); Skilling (1999: 180)
NTh 4	Phra Pathom Chedi, Nakhon Pathom/in situ	7th-8th c.	stone slab	tesam group	FAD (2529: I, 83-85); Skilling (1999: 180)
NTh 5	Nakhon Pathom prov./ National Library, Bkk	7th-8th c.	stone slab	<i>yesaṃ</i> group (variant ending: <i>mahāsamano</i> )	FAD (2529: I, 86-88); Skilling (1999: 180)
NTh 6	Nakhon Pathom prov./ National Library, Bkk	7th-8th c.	stone slab	yesam group	FAD (2529: I, 89-91); Skilling (1999: 180)
NTh 10	Phra Pathom Chedi, Nakhon Pathom/ current location unknown	7th-8th c.	stone slab	yesam group (variant ending: nirodho ca mahāsamano ti)	FAD (2529: I, 92-94); Skilling (1999: 181)
unregistered/ 22/10	Nakhon Pathom prov./ Bangkok National Museum	7th-8th c.	brick	<i>yesam</i> group	unpublished
unregistered/ DV 1-1	Phra Pathom Chedi, Nakhon Pathom/ Bangkok National Museum	8th-9th c.	earthenware/ fragmentary	<i>yesam</i> group	unpublished
unregistered/ 305/2519	Wat Phra Ngam, Nakhon Pathom/ Phra Pathom Chedi National Museum	8th-9th c.	earthenware/ fragmentary	yesaṃ group	Finot (1910: 148); Cœdès (1912: 29); L. de Lajonquière (1912: 113, fig. 21); FAD (2548: 198)

# Table 4: Ye Dhammā Inscriptions Found in First-Millennium Thailand (Continued)

Inscr. no./ Inv. no.	Provenance/ Location	Date	Category of Objects/Material/ Condition	Recension Type	References
NW 7, NW I + LB 26	Thap Chumphon, Nakhon Sawan prov./ Phra Narai National Museum, Lop Buri; Wat Nong Kradon, Nakhon Sawan; Chai Nat Hospital (?)	8th-9th c.	earthenwares/ fragmentary	yesam group (variant ending: mahāsamano)	FAD (2524: 34-40); FAD (2529: I, 244-246; II, 95-99); Kannika & Phongkasem (2542); Phimphan (2013: 12-13)
unregistered/ L. 4348	Nakhon Pathom prov./ Bangkok National Museum	7th c.	<i>cakra</i> pillar/ fragmentary	unknown	Finot (1910: 148); Cœdès (1912: 29); L. de Lajonquière (1912: 112, fig. 19); Brown (1996: 108)
unregistered/ NTh ii	Chaiya province (?)/Phra Pathom Chedi Temple Museum, Nakhon Pathom	7th-8th c.	Buddha image/ stone/ fragmentary	unknown	Skilling (2003-04: 280, n. 17)
unregistered/ DV 5-2 + DV 6-2	Wat Phra Men, Nakhon Pathom/ Bangkok National Museum	7th-8th c.	moulded tablets/ fired clay	tesam group	Dupont (1959: I 47-49, II figs 34-40)
unregistered/ MW/458	Probably central Thailand/ Wat Matchimawat, Songkhla	7th-8th c.	moulded clay/ fired clay	<i>yesaṃ</i> group	unpublished
SPh 2	U Thong, Suphan Buri prov./ U Thong National Museum	7th-8th c.	brick/fragmentary	<i>tesaṃ</i> group (Face B)	Prasan (2509: 81); Skilling (1999: 180)
SPh 4	U Thong, Suphan Buri prov./ National Library, Bkk	7th-8th c.	brick	yesaṃ group	FAD (2529: I, 100-102); Skilling (1999: 180)
unregistered/ NN i	Dong Lakhon, Nakhon Nayok prov./ current location unknown	8th-9th c.	bowl (?)/terracotta/ fragment	unknown	Bandhit (2542: 531-532)
LB 16/ 143/2525	Phromthin Tai, Lop Buri prov./ Phra Narai National Museum	7th-8th c.	stone slab	yesam group (variant ending: nirodho ca (?) mahāsamano)	FAD (2529: I, 106-108); Skilling (1999: 181)
LB 23	Si Thep, Phetchabun prov./ Phra Narai National Museum, Lop Buri	7th-8th c.	stone slab	yesam group (variant ending: mahāsamaņo)	FAD (2529: I, 132-134); Skilling (1999: 181); FAD (2550: 125)
LB 54	Sap Champa, Lop Buri prov./ current location unknown	8th-9th c.	stone slab/ fragmentary	? (variant ending: <i>nirodho ca</i> )	Amon (2551: 56-60)
unregistered/ LB i	Lop Buri prov./ Phra Narai National Museum	7th-8th c.	Buddha image/ stone/fragmentary	unknown	unpublished
unregistered/ PhB i	Si Thep, Phetchabun prov./ Ramkhamhaeng National Museum, Sukhothai	7th-8th c.	Buddha image/ stone/fragmentary	? (variant ending: mahāsamaņo)	Skilling (2002: 169); Skilling (2003-04: 280-281, fig. 9)
unregistered/ K. 987/ 323/2497	Dan Khun Tot or Mueang Sema (?), Sung Noen dist., Nakhon Ratchasima prov./ Maha Viravong National Museum, Nakhon Ratchasima	8th-9th c.	Buddha image/ stone	yesam group	Cœdès (1937-66: VII, 162); Skilling (1999: 173-174, 181); Skilling (2003-04: 276-278, figs 4-6)
unregistered/ K. 1166/ 46/2536	Nong Bua Daeng, Chaiyaphum prov. or Mueang Sema, Nakhon Ratchasima prov. (?)/Phimai National Museum	8th-9th c.	stone slab	<i>yesaṃ</i> group	Skilling (2003-04: 278-279, figs 7-8)

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# Abbreviations

Pāli references are made to PTS publications only.

А	Anguttaranikāya
D	Dīghanikāya
Dhp	Dhammapada
Dhp-a	Dhammapada-atthakathā (Commentary on Dhp)
It	Itivuttaka
Μ	Majjhimanikāya
Pj I	Paramatthajotikā I (Commentary on Khuddakapātha)
S	Samyuttanikāya
Sn	Suttanipāta
$\operatorname{Sp}$	Samantapāsādikā (Commentary on Vin)
Sv	Sumangalavilāsinī (Commentary on D)
Ud	Udāna
Ud-a	Paramatthadīpanī (Commentary on Ud)
Vin	Vinaya

# Endnotes

- 1 In this essay, "Dvāravatī" refers to both an archaeological typology and a cultural entity vaguely located in west-central Thailand *circa* the seventh and eighth centuries CE.
- 2 The archaeological material and inscriptions presented here do not pretend to be exhaustive or, in most cases, original. The majority of these have been edited or published in Thailand, albeit rarely or satisfactorily in English. Several readings of inscriptions and their published translations in print or available online through the "Inscriptions in Thailand Database Project" website warrant caution and emendations. All translations from Thai and French publications in this essay are mine.
- 3 The notion of merit-making is shared by several Indian religions but in this essay, I will focus only on the "Buddhist concept" of merit.
- 4 A brick retrieved from Suphan Buri is inscribed in Sanskrit with the following similar verse: *namo vuddhāya*, i.e. "Homage to the Buddha" (Kongkaeo 2541: 45).

- 5 The date given in the opening Khmer portion of the inscription has usually been given as 683 *śaka* (761 CE), but a tenth or eleventh century date is much more likely (Revire 2012a: 153, n. 2).
- 6 In this essay, I give first the registration numbers of the inscriptions as recorded in Thailand by the Fine Arts Department (FAD), followed by the K. numbers if known in the "Corpus des inscriptions du Cambodge." When the inscriptions are not recorded as such, I give the artefact inventory numbers or an arbitrary number. For further information and references to the inscriptions cited here, see **Tables 1-4**.
- 7 For ancient India, see for instance Nath (1987); for pre-modern and modern Thai traditions, see Gabaude (2003) and Arthid (2012).
- 8 Often, the *bhikkhu* observing this *dhutanga* declines invitations to take meals at the houses of lay people.
- 9 In certain vinayas, the khakkhara-staff was considered one of the eighteen possessions of wandering monks. For Yijing, the function of using such a staff was merely "to keep off cows or dogs while collecting alms in the village" (Takakusu

1998: 191). The *khakkhara* was also a familiar object in Dvāravatī and neighbouring cultures (Revire 2009 and forthcoming).

- 10 The terms dāsa or dāsī in Sanskrit, dek in Old Mon or kñum in Old Khmer have often been translated as male or female "slaves" but perhaps "servant" would be a better rendering. In the same vein, see Vickery (1998: 225-227, 439-440).
- 11 The eye-copy provided by Cœdès (1961: inscr. XXII) is clearly not faithful to the original. For another, yet likely incorrect, reading and translation, see FAD (2529: I, 68-71). For a published rubbing and the relationship between the image and the inscription, see Revire (2012b: 94-95, figs. 1-2).
- 12 Another short inscription from Mucang Bueng Khok Chang, Uthai Thani province (AN 2), whose reading and language are not certain, refer to a similar cultivation of merit where the word *puñ*(·) or *puña* seems to appear but not the name of the agent (FAD 2529: II, 48-52).
- 13 See also the inscription (KhK 25) above the head of a large reclining Buddha located on top of Phu Wiang, Khon Kaen province. The word *puŋya(m)* is clear at the end of line 2 (Cha-em 2544: eye-copy on p. 58).
- 14 Another fragmentary inscription in Sanskrit, found at the base of an alleged "Buddha image" from Kalasin province (KS 5), has been erroneously linked to the donor's aspiration of "transferring happiness to all mankind" (FAD 2529: I, 278). The inscription, a *sārdūlavikrādia* stanza, is in fact dedicated to Śiva and shows some similarities with K. 1214 dated to 648 *saka* (Griffiths 2005). I thank Arlo Griffiths for checking the reference and drawing this parallel to my attention.
- 15 I prefer to avoid the term *stūpa* (i.e. a reliquary) often used in the literature and which implies a funerary function. Could these terracotta fragments be finials? The hollow structure and flat base could suggest that these were used in an architectural capacity.
- 16 From my personal observation, I have noted that more bilingual inscribed earthenwares of this kind have survived, but have been left unnoticed and are not registered as inscriptions by the FAD. At least two are kept in the Bangkok National Museum (277/2504 and 278/2504) and one is in the Prachin Buri National Museum (129/2526). There are also several models or fragments kept at the Phra Narai National Museum, Lop Buri (e.g. 281/2504 and 286/2504), and I suspect that there could be more in museum storages, temple or private collections. See also Bauer (1991: 49, fig. E) for a tentative list of these inscribed objects.

- 17 The same inscription has been misinterpreted as "this stūpa [kyāk] was made for the three ancestors near the vihāra," (FAD 2529: I, 98) giving rise to speculations that these so-called "terracotta kumbha-type stūpas" possibly served as funeral urns (e.g. Woodward 2003: 101-102).
- 18 A possible parallel in Sanskrit would be brāhmapuŋya, meaning "sublime merit" (cf. Skilling 2008: 512).
- 19 Stephen Murphy recorded twenty-six inscriptions in total on *sema* stones from northeast Thailand with the languages employed including Mon, Khmer, and Sanskrit (2010: 90-95, Appendix 1, Table A5). Many of these inscriptions, however, are very worn and therefore still unread and/or left without a proper translation.
- 20 The reverse situation is equally possible. For example, at least two Khmer inscriptions from Nakhon Ratchasima (NM 28/K. 388 and NM 31/K. 389) also show traces of Mon loan words such as *kyāk*.
- 21 The Pāli portion in the Noen Sa Bua inscription (PCh 14/K. 997) cannot be considered "donative" in this regard since only the Khmer portion relates to the donation of cows to a temple and the installation of a *buddhapāda*. Prapod (2010: 82-83) classifies the Pāli section as a "eulogy inscription" citing an extra-canonical text.
- 22 See in particular the few panegyric inscriptions from Chaiyaphum province (ChY 1, ChY 4 and ChY 5). Other Buddhist Sanskrit inscriptions from northeast Thailand are tentatively listed by Bauer (1991a: 56, fig. H).
- 23 Also translated in English as "dependent co-arising," "chain of causation," "conditioned co-production," "conditioned genesis," and so on.
- 24 See Brown (1996: 104, n. 44) for a near complete list of Pāli texts where the verse occurs, to which list one can add the Udāna from the Khuddakanikāya. See Masefield (1994) for a recent English translation of that text.
- 25 See in particular inscriptions KTh 29, NTh 1, SPh 1, SPh i, LB 19, ChN 14, ChN 15, PhCh i, and 82.183 [Table 3]. An inscription on a fragmentary *cakra* pillar from Sap Champa (LB 8), first identified as written in Sanskrit (FAD 2524: 26-27), has recently been reassessed and identified as a portion of the First Sermon in Pāli (U-tain 2556).
- 26 My emendations and restorations of the nearly illegible or missing letters or syllables (*akşaras*) are given in parenthesis and square brackets respectively. While the letters are very clear on line 2, my reconstruction of line 1 is very much tentative and based on the strong assumption that it quotes the *paticcasamuppāda*.

Unfortunately, I have been unable to see the reverse Face B of this spoke-fragment.

- 27 I wish to thank Arlo Griffiths for his assistance in restoring the proper reading.
- 28 Other occurrences of Ud 1-3 were found in Angkor Borei, lower Cambodia, and Kunzeik, lower Myanmar, thus attesting to the popularity of the verses in the seventh-eighth century Theravada tradition of mainland Southeast Asia (Skilling 2002: 162-164).
- 29 Dhp 191, which summarises the Four Truths, is inscribed on a terracotta fragment from U Thong (Sph.i: Face A; Prasan 2509: 82; Skilling 1991: 243-244) and on a stone bar from Nakhon Pathom province (Nth i: Face D; Skilling 1997: 129-130). A parallel version of Dhp 191, albeit in so-called "hybrid Pāli-Sanskrit," is found in line 2 of the gold-plate inscription from Go Xoai, southern Vietnam (Skilling 1999: 172-173, 175), and also in Prakrit from Guntupalle, Andhra Pradesh, in India (Skilling 1991).
- 30 The practice of writing this sacred verse on precious metals is so far unattested in Dvāravatī although it surely existed in neighbouring regions. See for example the engraved gold-plates from Go Xoai, southern Vietnam (Skilling 1999: 171-177, fig. 1), the one of unknown provenance kept at the Musée Guimet in Paris (MA 4649B; Skilling 2003-04: 284, fig. 13), and another sample from Palembang, Sumatra (Griffiths 2011: 143-145, fig. 1a).
- 31 The FAD author who deciphered the inscription reconstructs it as belonging to the yesam group (Amon 2551: 59) but the reasons behind such classification, while likely on the basis which follows, are not clearly stated.
- 32 Finot (1910: 148) read yesam on the "vase en terre cuite" from Phra Pathom Chedi but Cœdès (1912: 29) proposed to read *tesam*. The eve-copy published upside-down by Lunet de Lajonquière (1912: 113, fig. 21), however, clearly reads *vesam*. I thank Laurent Hennequin for sending these references.
- 33 A complete tablet of this type is kept at the Nakhon Si Thammarat National Museum (19/246/kho) and was transferred from the Bangkok National Museum but its exact provenance is not known. In addition, a fragment found in Khu Bua is currently on display at the Ratchaburi National Museum (inv. no. unknown), and another fragment, presumably from Nakhon Pathom, is kept at the Chaiva National Museum (DV 244).

- 34 See Baptiste & Zéphir (2009: 56, 106, cats 13-14) for fine illustrations of two samples, one from Ratchaburi (242/2533) and the other from Suphan Buri provinces (64/2511). In addition, one tablet probably originating from Nakhon Pathom is kept at the Bangkok National Museum (151/2511), with an additional one on display at the Phra Narai National Museum, Lop Buri (225/2526), and yet another one at the Ashmolean Museum in Oxford (EAX. 170). For a recent iconographic study on the obverse of these tablets [e.g. Figure 15a], see Woodward (2009).
- 35 In Thailand, King Mongkut or Rama IV (r. 1851-1868), an ex-monk and Buddhist scholar in his own right, first proposed that the *ve dhammā* gāthā was a précis of the *paticeasamubbāda* and the Four Truths. See the inscription left in Thai by the king in 1856 at Phra Pathom Chedi in Nakhon Pathom and reproduced in extenso on pages 43-45 of Cœdès 1961 (Thai edition).
- 36 The full quote is: yo kho [vakkali] dhammam passati so mam passati yo mam passati so dhammam passati. See also M I 190f and It 91.
- 37 That the *ve dharma gāthā* was later blurred with a type of mantra is clearly attested in the abbreviated Sanskrit form om ye te svāhā found in (Pen)insular Southeast Asia (Cruijsen et al. 2013: n. 50). In the Tibetan tradition, Atiśa (ca 982-1054) also referred to the mantric use of this verse in his Ritual for Making Miniature Clay Stupas of the Vehicle of Perfections (Bentor 1996: 115; Skilling 2008: 514).
- 38 For a similar analysis regarding the "conceptual copying" of a revered icon during the later Sukhothai period (1238-1438) in Thailand, see Pattaratorn (2009: 176-181).

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# Dvāravatī *Cakras*: Questions of Their Significance

PINNA INDORF

# Introduction

Arved stone *cakras* (wheels) found at Dvāravatī sites in Thailand, Conce mounted on columns (stambha), are generally agreed to be dharmacakras representing the Turning of the Wheel of the Law, i.e., the Buddha's First Sermon. They are considered unique to the Mon Dvāravatī culture since no other place or time has left a comparable abundance of such remains. There are, however, many cakras throughout the early Buddhist world. Cakrastambhas were part of a broader Indian tradition, so were *dhvajastambhas* (banner-columns) of diverse types, and the cakra is one of the treasures of a cakravartin. A stupa facing panel from Jaggayyapeta (Zimmer 1984: pl. 37) depicting the treasures of a cakravartin shows both wheel- and gem-stambhas. Gupta period coins show kings holding a small staff crowned with a *cakra*, said to be a palladium (Gutman 1986: 282-284). The period of the sixth-ninth centuries CE, the age of Dvāravatī's prominence in the Chao Phraya Delta, was a time of tremendous development for both religions and states, and the two spheres were inter-related. For these reasons, and since the remains are numerous, it seems there should be more to learn from them and their diversity of detail. This essay re-evaluates this diversity and questions its significance regarding a potential socio-political role.

Clues relevant to this possible significance emerged from four aspects, namely:

- 1. The range of types of *cakras* and *dhvajastambhas* and their contexts.
- 2. Details in the *Dīghanikāya* (D III 59-76) regarding the Celestial Wheel of a *cakravartin*.
- 3. The significance of the base ornament and numbers of spokes on the *cakras* themselves, facets not yet typologically documented.
- 4. Rituals revealed in historical records, which might reflect cultural survivals of Mon Buddhism or Dvāravatī kingship practices.

# Cakras and Dhvajastambhas among Dvāravatī's Neighbours

A few *cakras* can be found among the remains of Dvāravatī's predecessors and contemporaries. Most significantly, a fragment of a stone *cakra* in the Funan collection of the Museum of History, Ho Chi Minh City shows a striking similarity to one found at Yarang (B #38).<sup>1</sup> Louis Malleret (1959: pl. LXXXIVb) shows one (diameter 50 cm.) from Oc Eo, southern Vietnam, which has a lotus motif on its hub and three incised lines around the felly.<sup>2</sup> Another fragment of a *cakra* exists from

**Opposite:** Cakra from Nakhon Pathom with Sūrya and dwarves at the base, ca 8th century, diameter 72 cm. Bangkok National Museum, inv. no. DV 4 [Photograph courtesy of Paisarn Piemmettawat]. Figure 1a: The south tympanum brick shrine at Hanchey (late 6th or mid-7th c.) bears traces of two cakrastambhas flanking a weathered form [Photograph by Pinna Indorf].



Figure 1b: Detail of the Hanchey tympanum, highlighting the two cakrastambhas [Drawing by Pinna Indorf].

Top opposite Figure 2:

The tympanum of the west bhadra of Sambor Prei Kuk N1 had a low-relief of dhvajastambhas crowned by vidhyādharas flanking a shrine [Drawing courtesy of Keo Sophal, after Tranet 1997: I, 125].

#### Below opposite Figure 3: Triratna column in low-relief

from a stūpa at Gummididurru, Andhra Pradesh, India, now in the Cincinnati Museum of Art [Drawing by Pinna Indorf, after Rosen Stone 1994; pl. 123]. Wat Phu, southern Laos,<sup>3</sup> with eight low-relief spokes and a felly band of indistinct ornament. Its triangular edge motifs are similar to some on one from Lingarajupalem **[Table 1: Andhra Pradesh]** and one from Nakhon Si Thammarat (B #42). Vaiṣṇava *cakra* motifs turned up in what may be royal graves of Funan (Dao Lin Côn 1994: 114, fig. 7). Evidence of *cakrastambhas* also survives from Zhenla on the south *bhadra* tympanum of the Śaiva sanctuary at Hanchey **[Figures 1a-b]**, which has door frame inscriptions from the reign of Bhavavarman.<sup>4</sup> The low-relief shows a pair of *cakrastambha* flanking what was probably a shrine. This arrangement is also seen in the west *bhadra* tympanum of Sambor Prei Kuk N1 **[Figure 2]** where the *dhvajastambhas* were crowned with *vidhyādharas*.

To Dvāravatī's west, an inscription from a Pyu site mentions a *cakra* (Gutman 1976: 77) and two column capitals from Rakhine state (Arakan) have *cakras* fronted with figures of Indra (Gutman 1986: 282-284). These examples show the regional co-existence of Buddhist and Brahmanical *cakra* symbols. Viewed from the perspective of tenth century CE and later texts and practices, the mix of elements is hard to reconcile. However, if they are viewed in terms of early "syncretic,"

transitional practices, for example, when the Pāśupatas and multi-deity worship evolved, absorbing and replacing varied traditional practices (Maxwell 1997; Mus 2001), then perhaps emerging cultural powers were able to apply thematic elements of the different streams of influence to different levels of their evolving practices, e.g., at one level, in statecraft ritual; another, as personal model for the individual "king;" and yet another, as personal religion.

Dhvajastambhas in a Buddhist context in India also show various themes, which by example, allowed Dvāravatī's elite to find equally varied expression. A third century inscription in Andhra Pradesh mentions a buddhunikambha, a column crowned with a Buddha image (Rao et al. 1998: 176-178). Peter Harvey (1990: 81-82) explains a column fringed by flame represented the body of the Buddha and spiritual energy. A low-relief pillar from Sarnath is crowned with a *pūrnaghata* (marked by a circular lotus), a *triratna*, a cakra and an umbrella (Harvey 1990: fig. 4). Other lowrelief plaques show flaming, luminous columns of various forms (Rosen Stone 1994: pl. 123; Phasook 2008: 30-31, figs 13-15) adorned with so-called triratna symbols including a cakra [Figure 3]. A fifth century pillar from Sāñcī was crowned with an image of the Bodhisattva Vajrapāni. Susan Huntington (1985: 56-57, fig. 10.14) notes this stambha signals an important shift in focus from the Buddha as the enlightened being to the potential for all to be enlightened. These examples may suggest that Dvāravatī's cakras could have specifically symbolised aspects of enlightenment attainable by many not just the notion of the preaching of the First Sermon. John Irwin (1990: 14) in fact argues that the early worship of the Buddhist wheel-pillar [Figure 4] is not explained by the "Turning of the Wheel of the Law" (i.e., the First Sermon), but by its association with the moment of enlightenment because it can be seen as parallel with the cosmic act of Visnu or Indra (also know as Śakra or Sakka) in a creation myth, i.e., the beginning of a new era. There is also cause to argue that Dvāravatī's so-called "Phanasbodi" Buddha images [e.g. Figure 7] may have been part of its *dhvajastambha* tradition. The fiery or foliated column, as a symbol of the enlightened being, has its parallel in the cosmic axis of the *rājasūva* ritual. When the initiate (king) raises his arms to assume the role of cosmic pillar, he is said to be mounted by either Indra or Mitra-Varuna plus Sūrya (Heesterman 1957: 12-13, 102-103, 114). This has its conceptual parallel in the Ajanta Buddha with the crown being held above his head (Huntington 1985: fig. 12.4). The "Phanasbodi" image is often associated with the Buddha's ascent to the Heaven of the Thirty-three (Skt, Trāvastrimśa; P., Tāvatimsa) to preach the dharma, which can be associated with the bodhisattvābhiseka confirming the Buddha as manifestation of the Universal (Huntington 1985: 245, 247). Sarah Tiffin and Martin Stuart-Fox (2002: 58-59) also discuss "Phanasbodi" images as signifying both

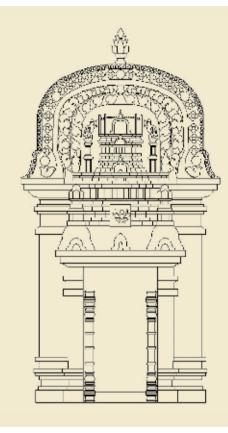






Figure 4: A low-relief banel on the railing around the bodhi-tree at Bodhgayā, India, showing a cakrastambha in a caityagrha flanked by two dhvajastambhas and two devotees paying their personal respects Photograph by Pinna Indorf.

Bodhisattva-hood and the descent from Travastrimsa.<sup>5</sup> They suggest cakras functioned, as did Asokan pillars, as "signposts" of power, and they also draw parallels with the *abhiseka* rituals of kingship. The "Phanasbodi" images mounted in the column capital of a *cakrastambha* as proposed by Robert Brown (1996: fig. 4) or on the front of a pillar, like the triratna motif of Andhra Pradesh (Rosen Stone 1994: fig. 123), would have the same dual significance [Figure 3]. This duality would be appropriate if Dvāravatī had dual models of kingship as Dhida Sarava (1999: 200-203) argues. Such duality would have echoed the Pyu practice, which seems to have merged Bodhisattva and kingship ideals (Gutman 1996: 166-167; Tiffin & Stuart-Fox 2002: 64). It would increase the need and, when combined with other motifs such as the base detail and number of spokes, also the potential for nuanced significance of the *cakra* as a symbol.

# The Cakra of a Buddhist Cakravartin

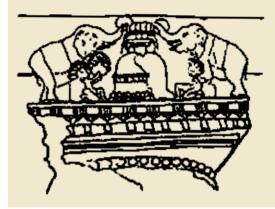
The story told in the Dīghanikāva (D III 59-76) is of a cakravartin who, on advice that the luster of his "Celestial Wheel" was fading, stepped down from his throne, handing it over to his son. Once his son was on the throne, the Celestial Wheel disappeared and the father told his son that this was normal,

and the son's own Celestial Wheel would appear only when the time was right, when he had ruled wisely. And so it did. He claimed it and followed it throughout his kingdom. From this story, several significant details emerge:

- The Celestial Wheel, as *cakkaratana* ("Wheel Treasure," in Pāli), is unique to each king. A son cannot inherit his father's wheel.
- The Celestial Wheel only appears some time after the king ascends the throne, after he rules wisely, not when he ascends the throne.
- When the wheel does appear, it appears in a monastic context where the king is present and the king, thus a new *cakravartin*, then performs an abhiseka ceremony for the wheel. The abhiseka of a stūpa is shown in a column capital at Kanherī (Dehejia 1972: 184, pl. 77), confirming that the ceremony was performed for significant monuments in India [Figure 5].

The implications of this are clear. Each cakkaratana represents only one king, related to his wise kingship. This need for uniqueness is also true in the case of the more ancient traditions of leadership incorporating spirit of ancestor and place practices as explained by Paul Mus (2001: 74-80). In those ancient traditions, specifically in the context of India and Southeast Asia, each spirit or ancestor stone (located at the centre of the domain) represented a unique spiritual intermediary for a community. In the transition to kingship based on Indian traditions, the cakra as a unique palladium, could be mapped over the notion of the old intermediary of earlier practices, the ancestral spirit stones. The importance of dwarves on Dvāravatī monument bases seems to hint of those earlier place spirit practices.<sup>6</sup> Could the two large stones with quincunx arrangements of auspicious motifs, from Dvāravatī sites, one in

the Phra Pathom Chedi National Museum in Nakhon Pathom [Figure 6] and another in the Bangkok National Museum, be such transitional ancestor stones? Were they replaced with *cakras* having specific references to aspects of Buddhist virtues and wisdom set up at a sacred place, a royal monastery? A ritual abhiseka would not necessarily have been connected to the coronation.<sup>7</sup> First the king had to establish his sacred place or demonstrate his meritorious deeds, also giving him time to get his cakra ready for an abhiseka ceremony. If Brahmanical or Buddhist neighbours were using the common, shared symbolic vocabulary in royal ritual, Dvāravatī's cakras must be made specific supraregionally.



# Symbolic Significance of the Base Element and Number of Spokes

Phasook Indrawooth (2008: 34) has specifically proposed that Dvāravatī cakras were meant to convey that Dvāravatī "kings" were cakravartins through the Dharma (dharmavijaya). This notion can be taken a step further with the ideals of a proposed dual kingship model, Bodhisattva as cakravartin (Dhida 1999; Tiffin & Stuart-Fox 2002: 64). The model of the Bodhisattva would emphasise the practice of Dharma, but does not stop there; it is the practice of Dharma as leading toward enlightenment and to the ability to help others also attain enlightenment. Earlier studies have shown, for example, that some (Phasook 2008: 30-33) or all (Indorf & Reddy 2007 and 2009) Buddhist cakras of Dvāravatī address specific aspects of enlightenment as represented by their inscriptions and ornament (see also Revire, this volume). The symbolism was shown to be varied, rich and nuanced, but the main aspects can be summarised briefly as follows.

Figure 5: Column capital at Kanherī, India, which shows the abhiseka of a stūpa /Drawing by Pinna Indorf, after Dehejia 1972: 184, pl. 77].

Sūrya on the *cakras* **[Table 1: MKV]**, as mentioned above, may allude to the *bodhisattvābhiseka* or the Buddha as the Supernal Sun,<sup>8</sup> the Great Awakening and the nascent notion of Vairocana.9 The Gaja-Laksmī [Table 1: MKII.B] or "abhiseka of Śrī" motif, usually taken simply as a symbol of prosperity, when in a symmetrical composition, can refer to enlightenment. In the Visnupurāna (XII) Mahālaksmī is said by Indra (Śakra) to be "great knowledge, mystic knowledge, and spiritual knowledge which confers eternal liberation" (Boner 1990: 74). The Brahmanical Gaja-Laksmī motif, according to Albert Grünwedel (1974: 39-40), was taken into Buddhism in full iconographical form. Another deity, shown emerging from a lotus pericarp (B #35)

[Table 1: MKII.A], could be the Earth Goddess bearing witness to

the Buddha's great virtue at his enlightenment. Finally, the Kala

face [Table 1: KIII], also known as Kirtimukha, is associated

with cycles of Time and samsāra (Wheel of Life), which is also

expressed in the Chain of Causation in the Buddhist teachings.

It could be expressed in the twelve or twenty-four spokes found

on the Kala face cakras. That is, the twelve-factor formulation

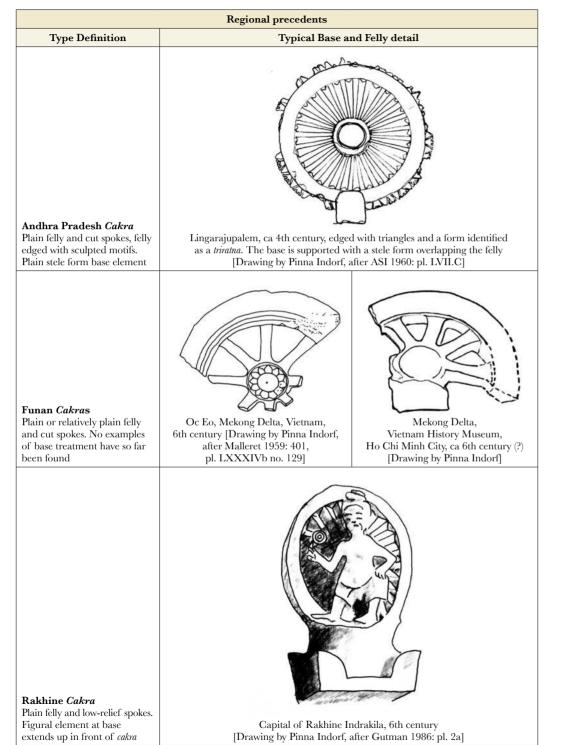
of the Chain of Causation (e.g., S II 21) as it first moves forward

in samsāra and then in reverse order as the elements are destroyed

*Figure 6:* Stone (68 x 79 cm.) carved with an elephant and auspicious motifs, now in the Phra Pathom Chedi National Museum. Nakhon Pathom, inv. no. 32/2530 Photograph courtesv of G. Swati Reddy].



# Table 1: Cakra Types, Determined by Base Element and Felly Patterns

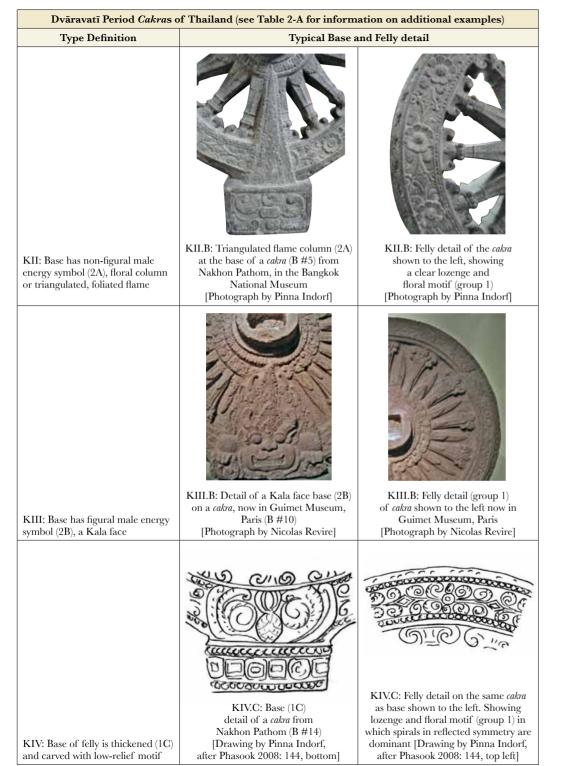


Note: Felly group numbers and *cakra* numbers follow Brown (1996): e.g. B #21 = Brown's *cakra* #21

# Table 1 (Continued)

Type Definition	f Thailand (see Table 2-A for information on additional examples) Typical Base and Felly detail				
Type F = Funan Base 1B, 1C or 2A + Felly group 6 Plain felly (group 6) and spokes,	Typical base a	Ind reny detail			
<ul><li>Fil: Base of plain felly raised (base 1B)</li><li>FII: Base has figural motif (2A) just overlapping felly or also spokes</li></ul>	<ul> <li>FI.A: Cakra, ø 20 cm., from Yarang</li> <li>(B #38), which has a raised rectangle at the felly base (1C) with a plain prism and sphere below</li> <li>[Drawing by Pinna Indorf, after Phasook 2008: 174, bottom]</li> </ul>	FII.C: <i>Calra</i> with low-relief spokes, which seems to have a raised arm at the base (2A) thus making its base similar to the Rakhine <i>calras</i> . Its find site is not known [Drawing by Pinna Indorf, after Dhanit 1990: 13]			
FIII: Plain felly continues uninterrupted at base (1B) with plain tenon below	FIII.A: Cakra from Sing Buri (B #39), with cut spokes, which could have had a thicken felly (base 1B or 1C?), or perhaps a small base element, as in the Andhra Pradesh cakra, but appears similar to the one shown at right [Drawing by Pinna Indorf, after Gosling 2004: 58]	FIII.B: Cakra from Nakhon Pathom (B #40), with plain felly, low-relief spokes and a base type 1E with a tenon below [Drawing by Pinna Indorf, after Dhanit 1990: 12]			
<b>Type K = Khmer</b> Base 1B, 1C, 2A or 2B + felly group 1 Felly with lozenge and floral motif (group 1), having the following base treatments: KI: Felly continues uninterrupted at the base (1B)	KI.C: Cakra at Khao Khlang Nai, Si Thep with base 1B [Photograph by Pinna Indorf]	KI.C: Detail of the felly pattern (group 1) of the <i>cakra</i> at Khao Khlang Nai, Si Thep shown to the left [Photograph by Pinna Indorf			

# Table 1 (Continued)



# Typical Base and Felly detail **Type Definition** Type M = Mon Base 1A, 1B or 3A + felly group 2, 4, or 5 Felly with bead bands and floral motifs with spirals (group 2) in reflected or cyclical symmetry, or translated leaves or spirals (group 4), or plain bands edged MI.A2: Fragment of felly (group 5) from Chai Nat in which the plain by beads on one or both sides band had been inscribed [Drawing by (group 5) Pinna Indorf, after Bauer 1991: pl. 2] MI.E: Detail of cakra from MI: Felly group 2 or 5. Base Ban Nong Chik, Khao Yoi dist., of felly is often missing, thus Phetchaburi prov., in the unknown; when present, it shows Bangkok National Museum. The felly pattern (group 5) continues a continuous felly band, some with a lotus below (1Å, 1B) uninterrupted at the base (1B)[Photograph by Pinna Indorf] MI.F: Felly ornament has floral motif incorporating spiral (group 2), turning outward in reflected symmetry, on a *cakra* fragment (B #19) at Wat Borommathat, Chaiva [Drawing by Pinna Indorf, after Brown 1996: drawing 8b] MI.J: Detail of the felly (group 2) of MI.J: Cakra (B #23) in the Bangkok cakra shown to the left with a floral National Museum, with continuous motif incorporating spirals in cyclical felly band (group 2) and symmetry. Note the hub band with (on one side only) a single row of lotus radial curled tip leaves, a motif petals below (base 1A) element used in at least two cakra fellies [Photograph by Pinna Indorf] [Photograph by Pinna Indorf]

Dvāravatī Period Cakras of Thailand (see Table 2-A for information on additional examples)

Table 1 (Continued)

# Table 1 (Continued)

Type Definition	Typical Base a	nd Felly detail				
	MII.A2: <i>Cakra</i> from Nakhon Pathom (B #21)					
MII: Felly group 2, 4 or 5. Base with a floral stele form (3A)	in the Phra Pathom Chedi National Museum, with floral stele base (3A) and a felly motif (group 2) with extended spirals in cyclical symmetry [Drawing by Pinna Indorf, after Brown 1996: fig. 21a, drawing 23]					
ATT -						
DÉ	MII.E: <i>Cakra</i> (B #34) from Nakhon Pathom with plain felly band (group 5) and a lotus petal fan as a base stele (3A) [Drawing by Pinna Indorf, after Dhanit 1990: 17]	MII.G: Translated curl-tipped leaf motif between bead bands (group 4) on <i>cakra</i> fragment (B #32) from Nakhon Pathom [Drawing by Pinna Indorf, after Phasook 2008: 142]				
MII.H: <i>Cakra</i> (B #31) in the Phra Pathom Chedi National Museum, with floral stele base (3A) (Photograph by G. Swati Reddy)	MII.H: <i>Cakra</i> (B #31) with translated straight-tipped leaf band felly (group 4) and articulated floral stele base (3A) [Drawing by Pinna Indorf, after Phasook 2008: fig. 18]	MII.B: Cakra (B #20) with an articulated floral stele base (3A) and felly band motif (group 2) with spirals in cyclical symmetry [Drawing by Pinna Indorf, after Brown 1996: 154, fig. 20]				

# Table 1 (Continued)

Dvāravatī Period	Cakras of Thailand (see Table 2-A for inform	ation on additional examples)
Type Definition	Typical Base and F	Felly detail
<b>Type MK =</b> <b>Mon-Khmer</b> The base and felly elements of types K, and M are mixed in this type. The base generally has a lotus motif below the felly		
MKI: Felly with lozenge and floral motif (group 1) continuous felly band, as in KI, but with a lotus below (base 1A) as in some M	MKI.B: Large <i>cakra</i> (B #15) in the Bangkok National Museum from Nakhon Pathom, with detail of felly pattern (group 1) of lozenge and floral motif (right) in which spiral leaves are dominant at the expense of the lozenge [Photographs by Pinna Indorf]	MKI.B: Detail of large <i>cakra</i> shown at left with double lotus base and continuous felly (base 1A) [Photograph by Pinna Indorf]
MKII: Felly with lozenge and floral motif (group 1) or plain bands (group 5), female figure	MKII.A: <i>Cakra</i> from Kamphaeng Saen, Nakhon Pathom (B #35) with plain bands on felly (group 5) and a female figure base (3B) [Photograph by G. Swati Reddy]	MKII.A: Detail of base figure (3B) on <i>cakra</i> shown at the left [Photograph by G. Swati Reddy]
as base (3B). In MII, the group 5 felly is used with non-figural female element, but not a figural element. A figural base element is used in KIII <i>cakras</i>	MKII.B: The Gaja-Lakşmī <i>cakra</i> (B #16) in the Phra Pathom Chedi National Museum, Nakhon Pathom [Photograph by Nicolas Revire]	MKII.B: Details of <i>cakra</i> to the left: upper – felly pattern (group 1); lower – Gaja-Lakşmî base motif (3B) [Photographs by Nicolas Revire]

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by enlightenment. In addition, Heinrich Zimmer (1984: 315) notes that the Kala face is also known as "Vanaspati" in Indian tradition and "Banaspati" in Javanese lore (T., "Phanasbodi"), and it was originally equated with the devouring aspect of Agni. The Kala face *cakra* **[Table 1: KIII]** can thus be seen as the devouring of defilements, which brings about enlightenment. It is a different expression, but could embody similar significance as the Dvāravatī Buddha images with "Phanasbodi" **[Figure 7]** or Sūrva as mount.

A number of *cakras* have carved foliage motifs within a more or less triangular form or rounded stele form overlapping the felly. The triangular forms are detailed as central tapered columns or triangles edged with foliated motifs. They are thematically similar to flaming columns in Andhra Pradesh, which represent the Buddha or the Triple Gem at Amarāvatī (ca 300 CE) and Nāgārjunakondā.<sup>10</sup> This suggests that the tapered column or triangular form with apex upward, which in the silpasastras is a male symbol (Boner 1990: 170), represents an enlightened male being (arhat, Bodhisattva or Buddha). The rounded stele could be a form of *śrī* (or *śakti*) symbol representing Laksmī or the Earth Goddess (Gutman 1978). Similar symbols can be seen on Gupta coins (Gutman 1978: fig. 1.8) and on *śakti* ritual plaques (Sarma 1994: 92, pl. 120A). The Pali Canon also gives additional basis for considering these motifs as related to enlightenment. In the *Dīghanikāva* (D III 64), the "Wheel Treasure" is presented as lighting up the front of the palace hall.<sup>11</sup> This splendor may be represented simply by floral motifs or flame-like foliage motifs. Thus the srī symbol, as base stele of a wheel, may represent the illuminating aspects of enlightenment.



PINNA INDORF

Figure 7: An image of the Buddha mounted on a "monster" (known as "Phanasbodi") with two flanking figures now in the Bangkok National Museum, inv. no. 270/2511 (Photograph by Nicolas Revire).

The number of spokes further particularises references to enlightenment or its enablement, modes of attaining enlightenment **[Table 2-B]**. To find this significance, the numbers must sometimes be broken into components, e.g., five times four. Some numbers have several possible interpretations which may be clearer if all the *cakra*'s details are considered carefully together. All, however, can be related directly to some mode, aspect, means or process of enlightenment. These numbers doubled or tripled (a formula known as "Three Knowledges"<sup>12</sup>) to represent a process and/or increased by one for the final, enlightened state, are as follows:

- Eight for the Eightfold Path (S V 358).
- Being endowed with "Ten Powers" and "Four Confidences" (thus fourteen qualities), the Buddha turns the "Divine Wheel" or *brahmacakka* (S II 23-24).
- The Chain of Causation doctrine, can be represented by several different numbers, depending on the text source and the basis of the causal chain. The most common, twelve-factors related to *khandhas*,<sup>13</sup> is in Ud 1-3, S II 21, 23-24 and Vin IV 1-2 and is linked to *saṃsāra* (Vism 207, 666). It was also expressed in the *ye dhammā* verse which is very prevalent in inscriptions (Revire, this volume).<sup>14</sup>
- Purified modes of experience provide: seven factors of enlightenment (S V 85-109), nine "gradual abiding," or nine facets of wisdom (A IV 269-270), all leading to enlightenment. As a process they result in fourteen, eighteen, twenty-one or twenty-seven and/or add one.

- Application of "Five Powers"<sup>15</sup> in several modes: twenty-five as applied to five *khandhas*, thirty-five as applied to seven factors of enlightenment,<sup>16</sup> and twenty related to four aspects of enlightenment or the "Four Noble Truths."
- The moment of enlightenment as the four-fold maggasacca ("Path-Truth") of the sixteen-fold "Noble Truths" (Vism 809, 811) is expressed through an inscription on Brown's cakra #5 [Table 1: KII.B] and thus probably also in sixteen spokes. But it could be marks of the birth of a Bodhisattva (D II 8-13).

And this does not exhaust the numbers with significance in Buddhist teachings, which means that *calras* would have been able to express particular aspects of enlightenment to serve as royal ritual implements.

With this variety in the significance, not only could *cakras* have represented particular kings, common themes expressed in a similar way on several wheels could indicate lineage branches, while the felly ornament represented wider ancestral lines. A "gigantic golden wheel" is said in the Traiphum written by Lithai (or Lüthai) of Sukhothai (r. ca 1346/47-1368/74), to accompany a *cakravartin* on his cosmic journey (Gosling 1991: 63, 69) as is also recorded in the Dighanikāva (D III 59, 64), i.e., it served as a palladium, personally associated with the king (D III 69). Sinhalese kings used the Buddha's Tooth Relic as a palladium and Sukhothai kings used a Buddha image. An Indrakila, also said to be a *vajra* (i.e., Indra's thunderbolt or stake), represents the unshakeable nature of the enlightened mind full of dharma, as well as the cosmic axis (Harvey 1990: 95; A I 124). One was also erected in one of Lithai royal monasteries (Gosling 1996: 135).<sup>17</sup> A *cakra* on a column, in miniature, served the Gupta kings and was depicted on their coins (Gutman 1986: 282-284).<sup>18</sup> The royal palladium tradition is also seen as early as the end of the fourth century CE in the royal *linga* (Siya Bhadreśvara) of My-son, central Vietnam, and in later royal *lingas* of the Khmers (Cœdès 1972: 64, 89), and perhaps also in one established by a certain Harsavarman at U Thong in the seventh century (Higham 2002: 26). The Khmer kings of ninth century Angkor seem to have used the linga as a kind of personal palladium (Coedès 1968: 30, 101, 103, 112, 119; Kulke 1986: 14; Wolters 1979: 441), but in 921 CE, for the first time, it was ascribed a wider significance and became a symbol of universal monarchy (Cœdès 1972: 98-99). Perhaps there was a similar personal palladium in Dvāravatī tradition. Nuanced, particularised references to enlightenment on cakras could thus have defined the individual king's wisdom and virtue for the spiritual well-being of his kingship and the security and prosperity of the kingdom.

# **Contexts for Rituals**

Little has been written about the possible rituals associated with the *cakras*. Karel van Kooij (1995: 33-35) has pointed out that low-reliefs of India show two types of Buddhist ritual. One type is the public festival (*manas*) held to honour relics, consecrate monuments and for certain periodic ceremonies. The other is the individual homage paid to sacred objects. Considering the *cakras* depicted and found in Buddhist India, *cakras* played both roles:

- Cakras represent the Buddha or the Dharma and are thus objects of personal respect. In the monastic complex, they stand alone like the columns at Sarnath and Sāñcī, perhaps surrounded by a railing or are housed in *caityagrhas* as shown on the Bodhgayā railing [Figure 4]. Given this prominence, they were also the object of festive ritual (*manas*) as shown in Andhra Pradesh *stūpa* drum slabs (Rosen Stone 1994: pls 36, 72).
- 2. Framing an important structure or monument in pairs as seen in the dome plaque from Site 3, Nāgārjunakondā (Rosen Stone 1994: pl. 148), they take a secondary position in the hierarchy of the complex and may have been object of individual homage, but perhaps were less likely to be the focus of a major public festival.

The cakrastambhas shown on the tympanum at Hanchey [Figures 1a-b] and *dhvajastambhas* at Sambor Prei Kuk N1 [Figure 2] indicate that the Zhenla culture used the stambhas in the second mode. Unfortunately the placement of Dvāravatī cakras in their original site context is unclear. However, they seem generally associated with stūpa sites. Many cakras were deposited over the years at Phra Pathom Chedi, Nakhon Pathom, which had been renovated in the Ayutthaya and Rattanakosin periods (FAD 2548: 24). In contrast, three cakras from U Thong were found at three different stuba sites (Phasook 2008: 154-156). A large cakra (diameter 1.80 or 2.0 m.) found at U Taphao, Chai Nat province, was supported on an inscribed octagonal column, mounted on a large circular brick base (diameter 7 m.) (Phasook 2008: 110, 162-163). It is not entirely clear how it related to other structures, but the base shows its significance. So far, there is no indication in Dvāravatī remains that the *cakras* were secondary elements enhancing the *chedis*.<sup>19</sup> It thus seems likely they were independent, significant structures in the religious complex. Perhaps, as with the Indrakila of the Mango Grove Monastery of Sukhothai (Gosling 1996: pl. 4.76), they were clustered, side by side with other elements of the monastery, but not subsumed into the composition of the major monument.

Historic accounts of rituals in seventeenth century Myanmar (Aung-Thwin 1983: 66-69) and in fourteenth century Sukhothai (Gosling 1983: 302-306) may contain cultural survivals providing some insight into elements of earlier royal rituals. While Myanmar's later cultures are thought to have had Mon Buddhist influences, Sukhothai is thought to have had Mon-Khmer, Khmer and perhaps "Burmese" influences (Gosling 1983: 5, 16, 112-114; 1996: 135). Betty Gosling (1983: 263) also compared these rituals of Sukhothai to the later rituals of Luang Prabang, which involved four monasteries at the four directions. Such comparisons are more relevant in terms of understanding the regional reliance on adaptations of Indian models in general than the particulars of a given precedence and can only help frame hypotheses. Even though there may not have been direct Mon influence, Sukhothai rulers were no doubt familiar with the ritual traditions of the region and would conduct their own using similar strategies and elements as they saw fit. Michael Aung-Thwin (1983: 66-69) describes the investiture ceremonies of kings in seventeenth century Myanmar as found in inscriptions and the Great Chronicle (Mahāvamsa). During the ceremony, the king sat on a throne made of wood from a bodhi-tree, which was decorated with lotuses and flanked by Brahmā and Indra (Sakka). These details seem to be a direct

reference to the *bodhisattvābhiseka* tradition. After these rites in the palace, there was a grand procession by the king and his entire court and army. They first visited the king's "royal good deed" where the ceremony for installing the spire was conducted. The entourage then circled the city on royal barges before entering and taking possession of the city. In the thirteenth-fourteenth centuries, Sukhothai rituals to periodically renew the spiritual validity and energy of kingship included festive processions. Ramkhamhaeng's route for a biweekly ritual connected his throne in the Sugar Palm Grove at the centre of the city next to his palace to a sacred hill (now Wat Saphan Hin). Lithai's processional route to and from that hill also took him by his newly constructed Mango Grove Monastery, in which he had erected the Indrakila (Gosling 1983: 302-306; 1996: 135). Lithai's Indrakila, like the Rakhine state (Arakan) *stambha* **[Table 1]**, may have included a *cakra*.

Although different in their details, the Sukhothai and "Burmese" processions linked together one or more sources of spiritual energy at sacred sites outside the city with the palace inside the city. Such rituals align the hierarchy of temporal powers with a religious or spiritual hierarchy and with the physical domain (Wolters 1979: 432). In Myanmar, the sacred site was the new "good deed" of the king, and in Sukhothai, both Ramkhamhaeng and Lithai had gone to a sacred hill before returning in a festive procession to the palace near the centre of the city. In the case of Myanmar, the procession involved a route encircling the city before returning to the palace. This, in fact, echoes the *Dīghanikāya* in that the wheel of the new king. The Sukhothai inscriptions do not seem to say the route encircled the city, however, it may have as other sites, like "the *acan* statue" (Wat Si Chum) and the *prāsāda* (Phra Pai Luang) to the north are mentioned.

Whether or not the route circled the city does not, however, change the implications for Dvāravatī cakras, and indeed for the locations of some Dvāravatī sacred sites. Some of the many Dvāravatī cakras at Phra Pathom Chedi may have originated there. The site is located outside the old walled city of Nakhon Pathom to the west, more or less on an extension of its east-west axis. Southeast of Phra Pathom Chedi is another significant monument, Wat Phra Men (Meru), more or less aligned with the southwest corner of the old city (Revire 2010: fig. 1). Noen Phra, a few kilometres outside the city, south of the centre, had a column, presumably of a cakra, still standing in the early twentieth century (Dupont 2006: pl. 316, map 3). This site and the Noen Hin site near the city centre seem to define the north-south axis of the city. The city plan seems to be a slightly bent rectangle. The eastern part is aligned with an axis from the northwest (around Wat Phra Ngam, outside the old city) to the southeast (around Wat Thammasala) passing through the centre around Noen Hin. The Phra Pathom Chedi and the centre of the city seem to be on an east-west axis perpendicular to a portion of the west wall. The presence of these sites on slightly shifted axes may signal phases in the city's development and corresponding ritual contexts. If such religious sites were the actual find sites of *cakras*, it could suggest these sites were royal monasteries, either "good deeds" or "sacred hills" connected with the ritual renewal of the spiritual power of kingship.

The location of such major sites, e.g., the footprints on four hills around Sukhothai (Gosling 1991: 65-66) or Phra Pathom Chedi and Wat Phra Men at Dvāravatī's principal city, has puzzled some scholars, even Gosling. However, seen in this ritual context, which spans centuries and several kingdoms, locations of important religious sites would appear to reflect a ritual strategy. Through processions to and from such sites, encompassing specific sacred elements, a sacred domain with specific qualities could be defined. The procession revealed these to the population, which in joining the procession, was thereby also bonded with the sacred domain, kingdom and king. The Dvāravatī sites, are in some measure similar to the sacred sites of Sukhothai, including their distribution in the landscape. It seems likely that Nakhon Pathom, with sacred sites aligned with cardinal axes, may have had such a public festival tradition, including processions linking these sites. An Old Mon inscription of the sixth-seventh century at Saraburi clearly refers to a festive procession, which included the "ruler" and went to a sacred cave (Nai Pan Hla 1991: 16; Bauer 1991: 35, 38), confirming at least one Mon royal ritual procession to a sacred hill site.

Dvāravatī cakras, perhaps representing the "king," were outside the city at least at one other Dvāravatī city. U Thong's sites 1, 2, and 11 with cakras near to stūpas are outside the city. It can be noted also that, at U Thong, sites 1 and 10 seem to form a cross axis to the central northsouth axis<sup>20</sup> marked by site 2 at the north end (Piriya 1975: map 5; FAD 2545: 31). Site 10 is aligned with sites 9 and 11 and a prominent spur on the hill west of the city and may align with the crest of the range. It is not possible from published data to know if other sites fit this model,<sup>2</sup> but it does seem that two other oblong cities, Si Thep and Khu Bua had sacred sites outside the city and large hills relatively nearby to the west.<sup>22</sup> At Si Thep there are two sacred hill sites. One to the northwest, Khao Thamorat, is well known for its cave with low-reliefs of Buddhist figures, including a triad comprised of the Buddha flanked by a cakrastambha and a stūpa (FAD 2550: 54, 127). The other, known as Khao Khlang Nok, just outside the city to the north has remains of a *stupa*, which is alleged as the find site of a large *cakra*.<sup>23</sup> At U Thong, Nakhon Pathom and Khao Khlang Nok, Si Thep, the hills are quite near. If this ritual context is correct, as both the Dighanikāva (D III 62-63) and the Sukhothai inscription show, each king may have ensured his own spiritual power source with periodic ritual processions, which inscribed that heritage onto the landscape including a sacred hill or monument outside and a sacred centre inside the city (Gallon, this volume). The Dvāravatī "king" quite likely had a palladium as the practice dates to the Gupta period (Gutman 1986: 282-284) and parallels the practices of the royal *linga* followed by the Khmers (Cœdès 1972; Higham 2002). The "Dvāravatī palladium" just might have been a *cakra*, a large copy of which, like Lithai's Indrakila. was established in a royal monastery.

# Typology

The following typology shows Dvāravatī *cakras* carry themes, which could represent several royal lineages concentrated in the central Delta regions of Thailand. Brown (1996) classified the felly ornament on about forty *cakras* and determined only six categories. That number is obviously too small to represent Dvāravatī's individual "kings," but could

represent lineage groups and branches. Just as Gosling (1996) found, in classifying Sukhothai halls (T., *wihan*), a necessity to use more than one element in the classification of architectural types, perhaps so too with these *cakras*. Therefore, base elements and felly patterns were compared. This resulted in the identification of four general types giving priority to base element motifs and their use with a felly pattern. No two are exactly alike, but they can be grouped by themes. All the types had two or more variations with others expressed in hub detail. Base and felly seem much more prominent and are thus analysed in this essay. Shoji Ito made a preliminary study of hub elements and bases, but failed to classify some themes such as the floral stele (1977: 1231, nos. 15, 25). On further study, the themes of the base elements fall into three groups **[Tables 1, 2-A]**:

- Neutral bases, those in which the felly continues around the whole perimeter: 1A, with, or 1B, without a lotus below the felly, or 1C, those with only a raised rectangle on the felly, i.e., a thickening of the felly.
- 2) Male base elements, either: 2A, a tapered or triangulated flame column, or 2B, a figure, Sūrya or a Kala face.
- Base elements which reflects a female energy, either: 3A, non-figural, floral śrī stele, or 3B, figural, e.g., Lakşmī.

The lozenge and floral motif, Brown's (1996) group 1 felly pattern, was identified by him as influenced by Khmer culture. The presence of a "Khmer style" felly motif suggests the others could perhaps also have "cultural themes."24 A small cakra fragment in the Museum of History in Ho Chi Minh City compared to a cakra from Yarang [Table 1: F1.A] suggested that some cakras found in Thailand with very plain fellies may have resulted from direct Funanese cultural or aesthetic influence. For those not plain or "Khmer," a cultural style is not entirely clear, but in the context of Dvāravatī, with its Mon inscriptions, there could also be a "Mon" influence. Given the importance of the female ancestor spirits in Mon culture (Guillon 1991: 26-28), the female elements and associated spirals have been tentatively identified as "Mon." When a fragment lacks either the base or the felly, its type was designated based on closest similarity of the remaining part to others. About two-thirds of the cakras published retained their base elements. Four general themes emerged [Tables 1, 2-A], viz.:

- F "Funan style": relatively plain (Brown's group 6), sometimes with beads or a thickened felly base and perhaps a figure below (base types 1B, 1C or 2B).
- K "Khmer style": felly band ornament with lozenge and floral motif linked by a central line parallel to the band edges (Brown's group 1); if base elements are present, they are male symbols of energy (base types 1B, 1C, 2A or 2B).
- M "Mon style": felly band ornament with only beads and/or foliage motifs including spirals (Brown's groups 2, 4 and 5) plus, when base elements are present, female symbols of energy (base types 1A, 1B or 3A).
- MK "Mon-Khmer mixed style": combining or mixing the above elements, e.g., felly 1 with female base (3A or 3B), or felly 2 with male base (2A or 2B).

# Table 2-A: Summary of Cakra Types

Base + Felly Type	References	FT	вт	Description: Felly motif/ base of felly detail/c. = cut spokes	Place reportedly found (current loc.)	Size: ø = diameter	No. of spokes	Phase
FI.A	B #38	6	1C	Plain/raised rectangle with prism and sphere below/c.	Yarang, Pattani (not given)	ht 35 cm., ø ca 20 cm.	8	la
FII.A	B #42	6		Bead band, triangles on edge/ missing/c.	N. Si Thammarat (N. Si Thammarat N. Museum)	frag. spokes + felly ca 19 cm.)		la
FII.B	Brown 1996: fig. 93	6	5	Plain/curved element/c.	Prachin Buri (Prachin Buri N. Museum)	ø 17 cm.	12	la
FII.C	Dhanit 1990: 13	6	2A	Plain/arm of figure?/c.	;		12	la
FIII.A	B #39	6		Plain/missing/c.	In Buri, Sing Buri (Wat Bot museum, Khu Mueang, In Buri)		12	la
FIII.B	B #40	6	1B	Plain/continuous felly, broken tenon below?	N. Pathom (purported Phra Pathom Chedi, N. Pathom)	ø 42 cm.	8	lb
17.1 4	<b>D</b> //0	1	1.D		0° TEI			11
KI.A	B #9	1	1B	Loz. & Fl./ continuous felly/c.	Si Thep (private col.)			lb
KI.B	B #7	1	1B	Loz. & Fl./ continuous felly	Si Thep (Si Thep dist. office)	ø ca 178 cm.	29?	2
KI.C	Phasook 2008: 164	1	1 <b>B</b>	Loz. & Fl./ continuous felly	Si Thep (Si Thep Historical Park)	ø 110 cm.	29	2
KI.D	B #6	1	1B	Loz. & Fl./ continuous felly	Si Thep ø 114.8 cm. (Newark Museum)		23/24	2
KI.E	B #8	1	1B	Loz. & Fl./ continuous felly	Si Thep (private col.)	i Thep		2
KII.A	B #3	1	2A	Loz. & Fl./flame column/c.	U Thong 11 (U Thong N. Museum)	ø 94 cm.	15	lb
KII.B	B #5	1	2A	Loz. & Fl./flame column/c.	N. Pathom (Bangkok N. Museum)	ø 94 cm.		lb
KII.C1	B #2	1		Loz. & Fl./ missing/c.	Fl./ Lop Buri f			lb
KII.C2	Phasook 2008: 160, middle	1		Loz. & Fl./ missing/c.	Sap Champa, Lop Buri (Phra Narai N. Museum)	frag. 34 cm. long		1b
KII.C3	Phasook 2008: 160, bottom	1		Loz. & Fl./ missing/c.	Sap Champa, Lop Buri (Phra Narai N. Museum)	3 frags total 44 cm. long		lb
KII.D	B #1	1	2A	Loz. & Fl./flame column	U Thong 2 (U Thong N. Museum)	ht ca 105 cm.	11/12	2
KII.E	B #4	1	2A	Loz. & Fl./flame column	N. Sawan (Wat Thai Mai, Nakhon Sawan)	?		2

**Note:** Dimensions of a given *cakra* sometimes vary in different sources by 1 cm. or more. FT = Felly Type according to Brown's (1996) group numbers; BT = Base Type; B #21 = Brown's *cakra* #21

# Table 2-A (Continued)

Base + Felly Type	References	FT	вт	Description: Felly motif/ base of felly detail/c. = cut spokes	Place reportedly found (current loc.)	Size: ø = diameter	No. of spokes	Phase
KII.F1	Phasook 2008: 170, top right	1		Loz. & Fl./missing	Phetchaburi (Wat Pet Pli, Phetchaburi)			2
KII.F2	Phasook 2008: 160, top	1		Loz. & Fl./missing?	Sap Champa, Lop Buri (private col.)	frag.	24 or 28?	2
KII.G	B #17	1		Loz. & Fl./missing	U Thong 1 (U Thong N. Museum)	ø ca 77 cm.	20?	2
KIII.A	Dhanit 1990: 8	1	2B	Loz. & Fl./Kala face	Phetchaburi (Wat Mahathat, Phetchaburi)	ø 100 cm.	24	3b
KIII.B	B #10 = Higham 2004: 92	1	2 <b>B</b>	Loz. & Fl./Kala face	"Thailand" (Guimet Museum)	ø ca 160 cm.	12	3b
KIII.C	Phasook 2008: 167	1		Loz. & Fl./missing	Mueang Sema monument no. 2 (not given; excavated 1999)			3b
KIII.D	B #11	1	2B	Loz. & Fl./Kala face	Mueang Sema (Wat Khlong Khwang, N. Ratchasima)	ø ca 150 cm.	12/13?	3b
KIV.A	B #12	1	1C	Loz. & Fl./ rectangle on felly	N. Pathom (Phra Pathom Chedi N. Museum)	ø 95 cm., ht 105 cm.	24	2
KIV.B	Dhanit 1990: 15	1	1C	Loz. & Fl./ rectangle on felly	N. Pathom (Phra Pathom Chedi?)	ø 104 cm., 24? ht 114 cm.		2
KIV.C	B #14	1	1C	Loz. & Fl./ rectangle on felly	N. Pathom (Phra Pathom Chedi N. Museum)	16		2
MI.A1	B #33	5		Plain & beads bands, inscription/ missing/c.	Lop Buri (Phra Narai N. Museum)	frag. ca 32 cm.		lb
MI.A2	Phasook 2008: 162 = Bauer 1991: 52, pls 1-2	5		Plain & beads bands, inscription/ missing/c.	U Taphao, Chai Nat (not given)			lb
MI.B	Phasook 2008: 157, second to the top	5		Plain & beads bands, beads elongated/ missing/c.	Khu Bua (not given)			lb
MI.C	Phasook 2008: 169, bottom	5		Plain & beads bands/missing/c.	Ban Nong Chik, Phetchaburi (not given)	felly frag.		lb
MI.D	Phasook 2008: 170	5		Plain & beads band/missing? (not shown)	Phetchaburi (?) (Collection Wat Pet Pli)	frag.		2
MI.E	Phasook 2008: 169, top	5	1B	Plain & beads bands/continuous felly, lotus below one side	Ban Nong Chik, Phetchaburi (NMB)	ø 94 cm.	18	2
MI.F	Phasook 2008: 174, centre = B #19	2	lA	Beads bands, reflected spirals motif/missing/c.	Chaiya (Chaiya N. Museum)	frag. spoke to felly edge 28 cm.		lb

# Table 2-A (Continued)

Base + Felly Type	References	FT	вт	Description: Felly motif/ base of felly detail/c. = cut spokes	Place reportedly found (current loc.)	Size: ø = diameter	No. of spokes	Phase
MI.G	Dhanit 1990: 19	2	1A	Fillet bands & spiral motif, reflected symmetry/ continuous felly band	N. Pathom (not given)	ø 65 cm.	18	2
MI.H	B #36	5	1B	Plain & beads band/continuous felly, double lotus below	N. Pathom (Phra Pathom Chedi N. Museum)	ø 71 cm., ht 87 cm.	16	2
MI.J	B #23	2	1B	Floral motif, cyclical spirals/continuous felly, single lotus below	N. Pathom (Phra Pathom Chedi N. Museum)	ø 88 cm.	20/21	2
MI.K	Phasook 2008: 172, top	2		Floral motif, cyclical spirals/missing	Ban Lat, Phetchaburi (not given)	frags		2
MII.A1	Phasook 2008: 133	2	3A	Floral motif, cyclical spirals/floral Śrī stele	N. Pathom (Phra Pathom Chedi N. Museum)		25	2
MII.A2	Phasook 2008: 131, top = B #21	2	3A	Floral motif, cyclical spirals/ floral Śrī stele	N. Pathom (Phra Pathom Chedi N. Museum)	ø 67 cm.	26	2
MII.B	B #20	2		Floral motif, cyclical spirals/missing	? (not given)	ø 99 cm.	20	2
MII.C	B #27	4		Floral motif, cyclical spirals/missing	N. Pathom (Songkhla N. Museum)	ø 65 cm.	20?	2
MII.D	Phasook 2008: 157, top	2		Floral motif, cyclical spirals/missing	Wat Mahathat, Ratchaburi ( <i>in situ</i> )			2
MII.E	B #34	5	3A	Plain & beads bands/floral stele, lotus petal fan	N. Pathom (Phra Pathom Chedi N. Museum)	ø 96 cm.	16	2
MII.F	B #37	5	3A	Plain & beads bands/trefoil floral stele	N. Pathom (Phra Pathom Chedi N. Museum)	frag.		2
MII.G	B #32	4		Beads bands, translated leaf, curled tip/missing	N. Pathom (Wat Phra Pathom Chedi Museum)	frags		2
MII.H	B #31	4	3A	Beads bands, translated leaf straight tip/floral stele, reflected spirals	N. Pathom (purported Bangkok N. Museum)	ø 90 cm.	22	2
MII,J	B #29	4		Beads bands, translated spirals/ missing/c.	Khu Bua (purported Wat Thong Chedi, Ratchaburi)	felly frag.		lb
MKI.A	Phasook 2008: 147 = B #15	1	1A	Loz. & Fl./ continuous felly, double lotus below (largely reconstructed)	N. Pathom (Wat Don Yai Hom, Nakhon Pathom)		23/24	3a
MKI.B	B #13	1	1A	Loz. & Fl./ continuous felly, double lotus below	N. Pathom (Bangkok N. Museum)	ø 195 cm.	35	3a

#### Table 2-A (Continued)

Base + Felly Type	References	FT	вт	Description: Felly motif/ base of felly detail/c. = cut spokes	Place reportedly found (current loc.)	Size: ø = diameter	No. of spokes	Phase
MKII.A	B #35	5	3B	Plain & beads bands/deity or Earth Goddess	N. Pathom (U Thong N. Museum)	ø 67 cm. ht 80 cm.	16	3b
MKII.B	B #16	1	3B	Loz. & Fl./ Gaja-Lakṣmī	N. Pathom (Phra Pathom Chedi N. Museum)	ø 65 cm.	16	3b
MKIII.A	B #18	1	3A	Loz. & Fl./ floral <i>śrī</i> stele	Mueang Si Mahosot, Prachin Buri (Khok Pip dist. Office)	ø 73 cm.	24?	3a
MKIII.B	Phasook 2008: 158	1		Loz. & Fl., with Si Thep type spirals/missing	Chansen (not given)	felly frag.		3a
MKIVA	B #30	4	2A	Plain & beads bands, radial curled leaves/floral flame over mortise, <i>amalaka</i> below	N. Pathom (Phra Pathom Chedi N. Museum)	ø 104 cm.	32	3a
MKIV.B	B #25	3	2A	Fillet band, translated spirals?/ foliage triangle over single lotus below felly	? (Suan Pakkad Palace, Bangkok)	hub edge to base ca 65 cm.		3a
MKV.A	B #26	2	2B	Floral motif, reflected spirals/ Sūrya seated	Prachin Buri or Aranyaprathet (Prachin Buri N. Museum)	ø 103 or 95 cm.	14	3b
MKV.B	B #22	3	2 <b>B</b>	Spirals reflected, translated (cropped vine?)/Sūrya seated	N. Pathom (Bangkok N. Museum)	ø 72 cm.	12/13	3b
MKV.C	Dhanit 1990: 24	3/2?	2B	? spirals/ Sūrya bust with wings (emerging from lotus)	N. Pathom (not given)	frag. 58 cm. wide x 60 cm.		3b
MKV.D	B #24	3	2 <b>B</b>	Spirals reflected translated (cropped vine?)/ Sūrya seated	N. Pathom (Phra Pathom Chedi N. Museum)	ø 68 cm.	16/17	3b

In only thirty examples, just over half the *cakras* studied, could the number of spokes be easily determined. Out of a total of eighteen different numbers or sets of numbers found **[Table 2-B]**, only six occurred on more than one type and four of these were on the mixed type (MK). This trend seems to support the idea that the numbers signified themes, which could have lineage and chronological implications.

# **Tentative Sequences and Chronology of Types**

Robert Brown (1996) has considered the chronological implications of the aesthetics. His opinion forms the framework of this assessment, but has been considered in relation to several additional points. Most of his observations have been accepted, but not his agreement with H.G. Quaritch Wales that the plain bands combined with beads are a late degeneration of felly motifs. There are several reasons to differ. The first derives from the possibility that, as Kenneth Hall (1985: 60) has suggested, the Funanese were the catalyst for the development of Dvāravatī, and Funan *cakras* were more or less plain **[Table 1]**. Brown's discovery of influence from Khmer ornament found on Dvāravatī *cakras*, allows the possibility that plain Mekong Delta *cakras* also influenced Dvāravatī cakras. Cakras with plain fellies (type F) may thus have initiated the practice. Furthermore, if cakras were royal as well as religious symbols, only through time, once the tradition was more widely established and rival power centres competed for territory. did the need for specific identity impose a need for more elaborate symbolic ornament.

Another reason is related to structural considerations. There are two aspects to consider. Quaritch Wales and Brown concur that *cakras* with cut spokes were, in general, earlier than those with low-relief spokes. It can be noted that the small Funan or Mekong Delta *cakras* had cut spokes. It is quite clear that when large cut spoke wheels were made, problems of handling them, lifting them up onto columns, etc. may have subjected the *cakras* to forces they could not withstand, resulting in breakage even when bases were reinforced. Therefore, a carved solid disk was used instead. These were also easier and faster to carve. The reinforced base provided a convenient place to add symbolic ornament and thus enhanced the ability to express very specific notions and thereby reflect the identity of a king. Felly patterns along with the base motif (themes plus details) would allow for hierarchical nuances of lineage branch and individual identity. These base elements were thus symbolically important and were retained on some solid disk *cakras*.

As many of the early cut spoke *cakras* are broken, treatment of all bases is not known. But it is clear that some base elements, for example flame columns (type KII), were on both cut spoke and solid disk *cakras*. Brown identified six felly pattern groups, but it seems two broader early themes can be seen. In one theme, a plain or foliage band (including spirals) defined by fillets or beads is combined with a basal floral stele, which can be considered a  $\delta r \bar{r}$  or female spiritual energy motif (type M). On the other hand, the lozenge and floral motif, when combined with a base motif, is found with a tapered or triangulated flame column or the Kala face, male motifs (type K). These two themes potentially define two broad and discrete lineages. What most clearly distinguishes the two groups is the lozenge and the central line in the one, Brown's

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group 1 on type K. Through time, however, lineage identity could have become mixed as a result of marriage alliances. Offspring of these mixed-lineage marriages could have identified with one side or the other, but some may have attempted to express their link to both sides, resulting in the mixed use of motifs (type MK). It can be noted that the cut spoke *cakras* are all in the "Funan," "Mon," or "Khmer" types, not in the "mixed" types, which would correlate with the scenario of mixed lineages emerging over time.

Although Brown and Quaritch Wales considered cut spokes early, on purely aesthetic grounds, they placed some with cut spokes in a late group because they had only plain bands and beads on the felly. It is proposed here that all with cut spokes belong in the early group. This remains tentative due to the fact that among them are cakras with inscriptions, which at least some scholars (e.g. Bauer 1991: 52) date to the sixth century while others consider them eighth century (Brown 1996). Those that have low-relief spokes, but are of the same theme as a group with cut spokes, would probably follow them in time. Many of the cakras, which Brown considered later, were those of the "mixed" group, type MK, none of which have cut spokes. It is suggested that the *cakras* of the mixed groups thus comprise the latest phase of the cakra tradition. They can be divided into those with nonfigural bases [Table 1: MKI, MKIII, MKIV] and with figural bases [Table 1: MKII, MKV], which, as narrative elements have a very specific identity, are placed at the end. From the viewpoint of the aesthetic theory as followed by Brown, those with figural bases might be considered earlier as they are more complex. It might be argued that as the tradition endured, the need for complexity increased to enable distinctive identity. Given the location and apparent origin of the Kala face motif in Khmer territory of the Khorat Plateau,<sup>25</sup> it is possible that these figural bases reflect a phase, which led to the demise of the tradition due to the subjugation of the Dvāravatī territory to some level of Khmer influence or control. It is thus tentatively suggested that those with figural motifs are probably the latest of the *cakras*.

The proposed sequences in Table 3 show cakras primarily in uninterrupted groups by types, but that is more a hypothetical model than a detailed sequence. It is meant to show the feasibility of a concept, that each *cakra* could represent one ruler within lineage groups, and is not meant to fix individual dates per se. Also, one branch's rule may have been interrupted by another, but, if they regained power, their earlier model could have reappeared. The sequence could thus be more complicated. Certain technical considerations could also alter the sequences. Although premature to assign dates to stylistic phases, the generally accepted dates for Dvāravatī remain the framework for this tentative chronology. Dates suggested by Robert Brown (1996) and Piriya Krairiksh (1975) have also been considered as well as the dates for major changes in Funan and Zhenla's history following Hall's suggestion (1985: 60). Thus this chronology starts in the mid-sixth century. Brown (1996: 124, 136) considered the most secure dates for cakras to be 650-700 CE, and thought the overall production of cakras to have been perhaps only about one hundred twenty years. However, he also admitted *cakras* might have been made as late as the tenth century. Piriya suggested that Chedi Chula Prathon's first phase may have predated Sambor Prei Kuk.26 Nakhon Pathom, however, may not have been

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FI	1 of 1	•																<u></u>	
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FIII	2 of 2	•												•					
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Table 2-B: Number of Spokes Related to *Cakras* Types

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Table 3

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= Upper-Thailand; Buri; NS = Nakhon Sawan; E/NE = East & Northeast Thailand; Si Thammarat; Y = Yarang (see Table 2-A for *cabra* ID information)  $\mathbf{Z}$ Bua; Khu ] & No Ratchaburi; KB Ц Ë tchabur = Nakh Phe<sup>1</sup> NS Cn = Chansen; S = Sing = Chaiya; NST = Nakhon = West-central Thaila = Chansen; S = Sin = monument at that location with characteristics similar to the phase at CCP, according to Piriya (1975) Phra Men; W Champa; Ct = Chai Nau; = Peninsular Thailand; Ca = Wat F **bbr:** NP = Nakhon Pathom; CCP = Chedi Chula Prathon; WPM trtal Thailand; U = U Thong; L = Lop Buri; SC = Sap Champs = Prachin Buri; ST = Si Thep; MS = Mueang Sema; PT = Peninst Abbr.:

s at CCP: I = late 6th-early to mid-7th c.; CCP phase II. Dupont's (2006) dating, Ξ. for phase: pla ven by Piriya (1975): fc , Piriya (1975, 100 cated. Monument dates given by Piriya (19 All three phases of WPM, Piriya (1975: 1 Buddhist world were from 6th-11th/13th **tentative.** Some *calvas* at NP may have been relo = late 7th c.(8th decade)-2nd decade of 8th c. . n c. . 8th in tl onuments known to him in in te 7th c.(8th d Buddhist mor scade; III = late son with other F e; III are and comparison groups : c./7th de **All dates for** *cakra* **g** II = mid-to end 7th c based on images and c

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750 **				•		•								KIII					spokes, MK
725	د.			•		•							ċ						Phase 3: Low-relief spokes, MK, then return to K with KIII
700	Phase III	c.		***•	MK	•				•			ત.						Phase
		III																	
675		Phase III		•	KIV														
650†	Phase II	Phase II		:	M***														Phase 2: Low-relief spokes, M & K dominant
		Ph. I		•															se 2: Low-relief spo M & K dominant
625						•													Phase 2 M
			KII	•	KII					KII									
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575	Phase I		Μ		FIII	КП	KII			:		FII	KI						Phase 1: Cut spokes
550*									FIII							Μ	FII	FI	Phase 1
Timeline	•CCP	• WPM	Ь	R & KB	NP	n	L & SC	Ct & Cn	s	NS		Pr	$\mathbf{ST}$	MS		Ca	NST	Y	Cakra phases:
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said (Brown 1996) to be ca late 7th c. Chaiya. Phase III; at during CCP's Ż monuments n, Ligor. as they are 4 Fotal <sup>2</sup> СI Srīvijava ended Phase 802 CE (Vickery types may have Śailer KIV until kingship Ы Chvea" in Phase 2, e Е. the ' change CE skirmishes have alternated at 640 Ē \*\* Jayavarman types may KIV †† Har 8 . ;stsidbbt Ξ. Σ reign If from around NP, these Rudravarman's End of † Jayava

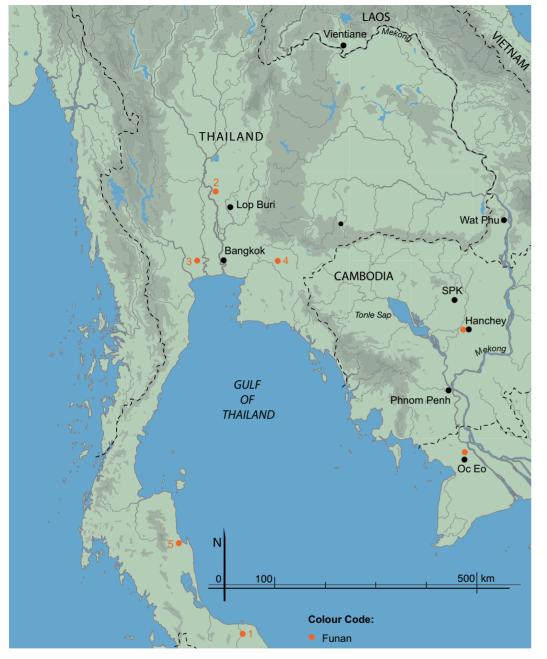
founded until the seventh century (Dhida 1999). Thus an early phase, including all Funan style and cut spokes *cakras*, is tentatively placed *circa* 550-610 CE **[Phase 1, Table 3]**, with the first *cakra* at Nakhon Pathom toward the period's end. If the *cakras* FIII.B (B #40) and KII.B (B #5) **[Table 1]** were indeed originally from Nakhon Pathom, this would suggest that Nakhon Pathom was founded by a lineage group using either the Funan or Khmer style *cakra* **[Maps 1-2]**. If corroborated with other archaeological data, this could have profound implications, proving Hall right, or more specifically, that the Funan to Khmer-Zhenla transition was a catalyst for Dvāravatī's development, perhaps providing also some of the participants in those developments.

If the Dvāravatī cakras are deemed to begin only at the end of a catalyst phase comprising the Funan types [Map 1] in the late sixth century, then the one hundred twenty years suggested by Brown takes cakras into the early eighth century. If all cakras at Nakhon Pathom represented reigns there, the average reign span was about five years. It is entirely possible some *cakras* could represent very short reigns, but to accomplish major monument construction, etc. some reigns would have been much longer. The possible number of cakras at one site being considered, the dates circa 610-690/700 and 690-800 CE are suggested for Phases 2 and 3, not far off the timeframe suggested by Piriya (1975) for Chedi Chula Prathon [Table 3; Maps 3-4]. The suggested longer period of the cakra tradition would have ended close to the exile of Jayavarman II, who Michael Vickery (1998: 387) has suggested might have spent his "exile" fighting the "Chvae" (according to Vickery, perhaps Cham) on his frontier. Given the *cakra*'s possible role in developing statecraft, this would have important implications for the history of mainland Southeast Asia as well as Dvāravatī.

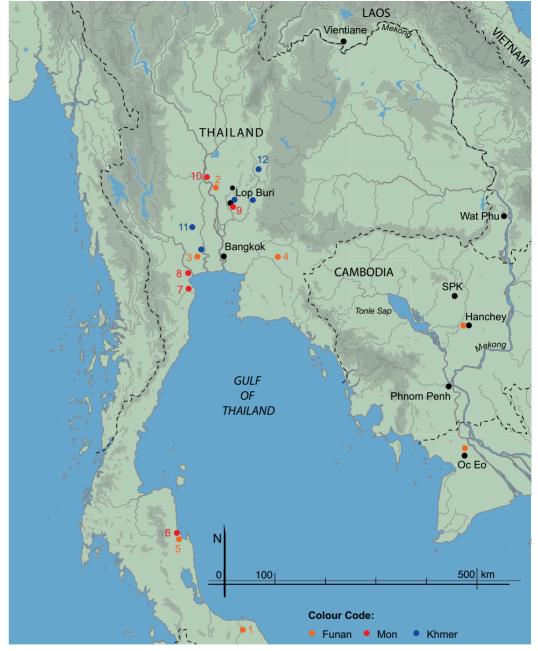
# Conclusion

Although the details do not yet all add up, and the sequences within type groups and phases are far from fixed, the general outline they begin to sketch out is not unreasonable. Changes of lineage or style, perhaps with a "Khmer" interlude between Phases I and II of Nakhon Pathom's principal monuments **[Table 3]** could represent just renovation or perhaps destruction and rebuilding.<sup>27</sup> Robert Brown (1996: 179-181) suggested that the number of spokes was so varied they could not be expected to have significance and must have been left to the choice of the artisan. This might be so if the *cakra* simply represented the generic notions of the *cakravartin* and the turning of the Wheel of the Law. However, that great variety would be the very root of their effectiveness in the role Mus (2001) defined as particularising a royal intermediary. Some sites have two or more types. If the *cakras* reflected royal lineage, leadership shifted, or there were shifts in aesthetic taste only. Given the importance of symbolism at the time, the latter does not seem likely.

The distribution of types **[Maps 1-4]** also seems to place stylistic elements in places where language of inscriptions and other artefacts also indicate that cultural dominance. *Cakras* of the same type in different locations could indicate co-rulers or subordinates (sons, brothers or vassals of a king) and seem to define lineage domains related to trade routes and rice production areas concentrated on the west and the north of the Chao Phraya Delta, which may or may not



Map 1: Catalyst phase. Funan style cakras: 1. Yarang (FI.A); 2. Sing Buri (FIII.A); 3. Nakhon Pathom (FIII.B); 4. Dong Si Mahosot (FII.B & FII.C?); 5. Nakhon Si Thammarat (FII.A). These might represent the earliest, catalyst phase of cakras, following a Funan tradition (e.g. at Oc Eo) and may date between 550-600 CE [Drawing by Pinna Indorf].

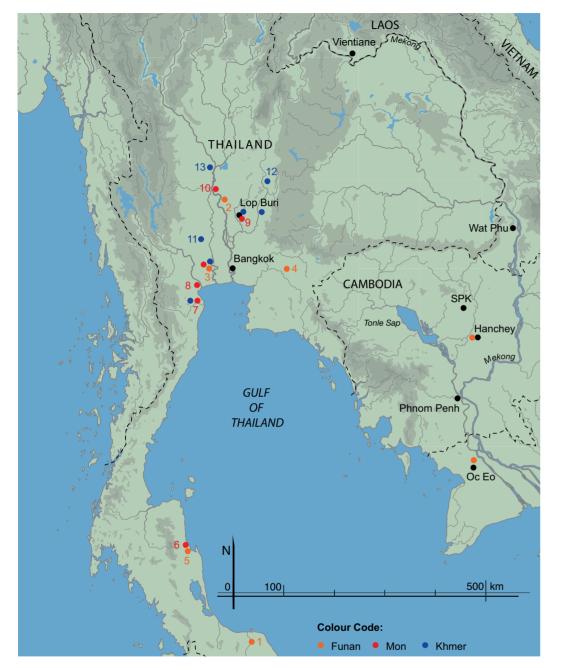


Map 2: Phase 1. Early cakras with cut spokes in Mon and Khmer style may have followed or be contemporary with Funan style cakras (sites nos. 1-5): 1. Yarang (FI.A); 2. Sing Buri (FIII.A); 3. Nakhon Pathom (FIII.B);

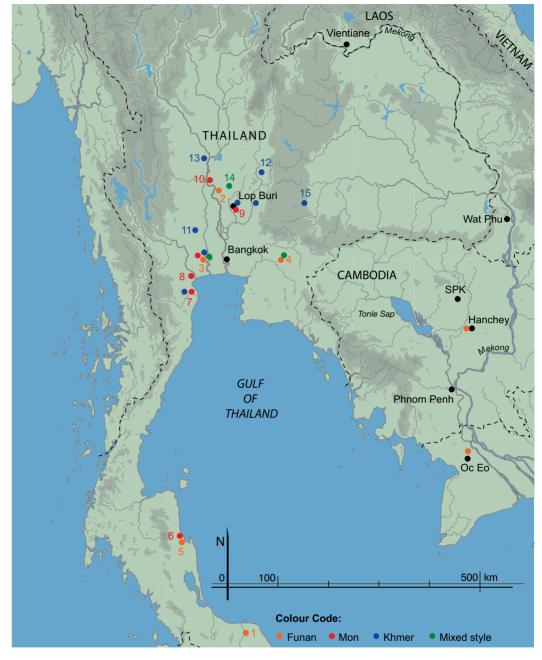
4. Dong Si Mahosot (FII.B & FII.C?); 5. Nakhon Si Thammarat (FII.A).

Mon style: 6. Chaiya (MI.F); 7. Phetchaburi (MI.C); 8. Khu Bua (MI.B & MII.7); 9. Lop Buri (MI.A1); 10. Chai Nat (MI.A2 & 3). Khmer style: 3. Nakhon Pathom (KII.B); 9. Lop Buri (KII.C); 11. U Thong (KII.A); 12. Si Thep (KI.A). Khmer style: vas also found at sites with other styles: Nakhon Pathom (site 3: KII.B). Lop Buri, (site 9: KII.C1) and at Sap Champa, also in Lop Buri prov. (KII.C2-3). Having cut spokes, these are all potentially early phase cakras, ca 575-610 CE.

The lower Mekong Delta has yielded at least two cakras and the low-relief at Hanchey shows cakras on tall columns flanking a shrine. So far, there seems to be no indication that the Dvāravatī cakras were made as pair [Drawing by Pinna Indorf].



Map 3: Phase 2. Phase 2, ca 610-690/700 CE, is the transition from cut-spoke cakras to low-relief spoke cakras of a similar type. They primarily appeared at the same sites as the earlier cut-spoke versions, but in some cases the styles at the site changed. Those of Khmer style with low-relief were from sites: 3. Nakhon Pathom (KIVA-C) with earlier Funan and Khmer styles;
7. Phetchaburi (KII.F1) which earlier had Mon style; 9. Lop Buri and Sap Champa (KII.F2) which earlier had both Mon and Khmer style; 11. U Thong (KII.D & G) which earlier had the cut-spoke version of this style; 12. Si Thep (KI.B-E) which earlier had the cut-spoke version of this style; 12. Si Thep (KI.B-E) which earlier had the cut-spoke version of this style; 13. Nakhon Sawan (KII.E) which had no earlier cakras. Those of Mon style with low-relief spokes were from sites: 3. Nakhon Pathom (MI.G, H. J and MII.A, C, E-H) which earlier had Funan and Khmer style; 7. Phetchaburi (MII.D) to which is near Khu Bua and which earlier had Mon style. A cakra fragment at Wat Phu with low-relief spokes and perhaps an eroded band of ornament on the felly could be similar to the end of this phase or Phase 3 [Drawing by Pinna Indorf].



Map 4: Phase 3. Phase 3, perhaps ca 690/700-800 CE or later, is the emergence of mixed style cakras, in two versions, one with non-figural and the other with figural base elements. The figural style also appears in a modified Khmer version, which appears at perhaps only two of the earlier sites and at one, possibly two new sites.

Sites which have the mixed style cakras are: With non-figural cakras: 3. Nakhon Pathom (MKI.A, B and MKIV.A). Another, MKIV.B, is from an unknown site; 4. Prachin Buri (MKIII.A) which earlier had Funan style; 14. Chansen (MKIII.B) which had no other cakras.

With figural cakras: 3. Nakhon Pathom (MKII.A-B, MKV.B-D); 4. Prachin Buri (MKVA). Figural cakras of modified Khmer style, 7. Phetchaburi (KIII.A); 15. Mueang Sema (KIII.D, B), which had no earlier cakras. Perhaps also at: 3. Nakhon Pathom (KIII.C), according to Higham (2004: 92), but not Brown (1996) [Drawing by Pinna Indorf]. have been a bay or wetlands laced with navigable channels (FAD 2548: 33). The concentration of late *cakras* at Nakhon Pathom may imply only a hoarding of early *cakras* at the site, or a more unified kingdom, or simply that much of the territory no longer followed the royal tradition involving *cakras*. As it stands, the typology and tentative sequence clues suggest Dvāravatī was a zone of contention by at least two, possibly more, lineage groups. Although more detailed investigation is needed for reliable historical interpretation, it is clear that the *cakras* could have represented individual kings and their lineage groups over a period of two hundred years or slightly longer.

The ethnic make-up of Dvāravatī is presumed diverse, but dominated by Mon due in part to the Mon inscriptions (Bauer 1991). The presence of Khmer and Funan stylistic elements presents several historical problems. The typology, stemming from the identity of lozenge and floral motif as associated with Khmer art by Brown, has been presented here, very tentatively, in terms of three broadly identified ethnic affiliations. However, if:

- as John Miksic (2003: 23) has suggested, the people of Funan were "proto-Mon,"
- the Funan legends hint of real connections between the elite of the Mekong Delta and the people of the Thai-Malay Peninsula in the early centuries of the Common Era,
- 3) the shift from "Funan" to "Zhenla" was a shift away from those early mixed-lineage elite "proto-Mon" of Funan's coastal areas to a new inland branch of the elite with Khmer roots, and
- 4) given the "Khmer" style *cakras* are dominant in areas which also have other Khmer style elements and Khmer inscriptions,

then, these ethnic categories may make sense. The "Funan" to "Zhenla" shift can be seen as transitions in the dominant lineage branches ruling the lower Mekong (Vickery 1998: 324-408). If in that shift, an old dominant branch of "Funan" elite fled to areas on the Gulf of Thailand coast where they had early lineage links, they may have been able to pursue their socio-political and economic aspirations, thus serving as the catalyst for Dvāravatī's development. In such a context, the Khmers would not have just stood by. As Vickery's work (1998: 387) seems to show, the "Chvae" of Khmer history from whom Jayavarman II fought to be free were a southern coastal group, it is possible they were the old elite of coastal "Funan."

It does not seem that the earliest "Khmer" *cakras* of Dvāravatī represent direct rule from a strong Khmer Zhenla power centre, but local elite, local Khmer elite, e.g. King Harṣavarman (claiming to be Īśānavarma's grandson), who chose to emulate, and were taking advantage of, "Zhenla" developments. The *cakras* with plain fellies or motifs involving floral spirals, cyclical symmetry and without the linking central line seem to represent coastal powers with early links to Funan. The Khmer-"Chvae" (perhaps Khmer-Cham) conflicts (of Jayavarman II) being an extension of the coastal-"Funan" and inland-Khmer conflict, thus may have had some impact on the Chao Phraya Delta. It is impossible to tell from the *cakras* alone, why or how the tradition came to an end, but evidence in terms of distribution and stylistic elements on *cakras*, is clearly suggestive that Khmer developments played a significant part. Khmer cultural elements seem to have infiltrated or influenced the elite lineages of the north and east, and they may have become dominant in the Chao Phraya Delta, ending the *cakra* tradition, but not the popularity of Buddhism. The end of the *cakra* tradition seems to end the role of the combined Bodhisattva-*cakravartin* ideal as the dominant element of political ideology, or at least one expression of it. The end of the *cakra* tradition does not mark the end of "Dvāravatī" as a cultural force, but probably marked the end of an era of state development and certain ruling lineages.

# Acknowledgements

This essay developed as an outgrowth of research into the meaning and possible functions of ritual trays of Dvāravatī. Gudur Swati Reddy's collaboration in that earlier phase and also her occasional assistance in this investigation into the *cakras* is greatly appreciated. I would also like to thank Nicolas Revire, Stephen Murphy, Tran Ky Phuong and Amarjiva Lochan for their helpful comments and moral support.

# Abbreviations

Pāli text references are to PTS publications, except the *Visuddhimagga*, published by the Buddhist Publication Society, Kandy (Bhikkhu Ñāṇamoli 1975).

А	Anguttaranikāya
D	Dīghanikāya
Dhp	Dhammapada
Μ	Majjhimanikāya
S	Saṃyuttanikāya
Th	Theragāthā
Ud	Udāna
Vin	Vinaya
Vism	Visuddhimagga

# Endnotes

- 1 B #38 = Brown's *cakra* #38 (1996: fig. 38); Brown's work is used as the primary identification for the cakras when possible; see Table 2-A for other sources and a summary of the cakras studied.
- 2 See **Table 1** illustrations of *cakra* types
- 3 Nicolas Revire in personal communication, including a photo taken by Pierre Pichard. For an additional relief depicting a cakrastambha from southern Laos, see Lorrillard (this volume, fig. 2).
- 4 Probably Bhavavarman II (seventh century), the son of İśānavarman I (ca 611-630 CE) of Sambor Prei Kuk or İśānapura (Briggs 1951: 42-43, 53-54). Although it is a Saiva shrine, the south *bhadra* may have been devoted to Visnu in the multi-deity practices of the times (Maxwell 1997: 48-54, 81-83).
- 5 Tiffin and Stuart-Fox (2002: 59) seem to link the descent from Tavatimsa to the Buddha's last birth before he became the Buddha. That descent. however, was from Tusita (fourth of six heavens) and not Tāvatimsa (second of six heavens). The descent from Tāvatimsa/Trāvastrimśa was associated with the miracle at Śrāvasti and his preaching to his mother and the other gods from Sakka's throne. That occurred some years after his enlightenment (Malalasekera 1974: I, 1002, 1033; Huntington 1985: 72-73). It is this descent, which has symbolic parallels in the *rājasūva* ritual. However, the descent from heaven to take human birth might be symbolic of merit, as they suggest, or perfected virtues (*pāramitās*) of a Bodhisattva.
- 6 Pre-Arvan earth spirits or indigenous tutelarv deities were called in Sanskrit "vaksas," and these also had to be dealt with during that transition in order to maintain order (Wolters 1979: 434-435). It can be noted that on the base of one of early Si Thep's monument, *vaksas* and dwarves are depicted as supporting it on their backs (FAD 2550: 88-91). Similar motifs are found on the base of Chedi Chula Prathon stage III, i.e., a dwarf identified as yaksa (Dupont 2006: 58, pls. 201, see also 192, 294-296) and fragments with yaksa heads found at Wat Phra Men, perhaps from stages I and II (Dupont 2006: 27, 29, 34, pls 17, 48, 49).
- 7 Johannes Heesterman (1957: 3, 7-9) emphasises the distinction between coronation of a king and the abhiseka, which is a consecration, instilling or confirming spiritual powers.
- 8 John Irwin (1990: 52, 60) also points out that the cakra originally symbolised the solar wheel.
- 9 Vairocana is associated with the Sun-disc and has the characteristic *mudrā* of turning the *dharmacakra*, (Maxwell 1997: 158-168), which is, however, not found in Dvāravatī Buddha images (e.g. Revire 2010).
- 10 For example, the drum slab from a *stūpa* at Gummididurru, Andhra Pradesh (India), now

in the Cincinnati Museum of Art (Rosen Stone 1994: pl. 123) [Figure 3]. See also Rosen Stone (1994: pls 91, 92, and 97) and Phasook (2008: figs 13-15). The inspiration for this depiction, Phasook Indrawooth says (2008: 17, 31), could be the Dhammabada (Dhp 397) and the Theragatha (Th 1095) where there are references to fiery energy. There is also a reference in the latter text to paññā (Skt, prajñā) as the sword of understanding. Swords can be seen on two of the wheels with Kala faces [Table 1: KIII].

- 11 In Anguttaranikāva (A II 9-10), in a context where the wheel could be a *dharmacakka*, the Pāli term appears to have been *brahmacakka*. The term is used in the prose text to be the equivalent of a dharmacakka so termed in the verse summary of the passage (A II 9-10, note 3).
- 12 The three are *saccañānam*, *kiccañānam* and katañānam, being "present truth," "(truth) to be known," and "(truth) which has been known" as they appear repeated five times in an inscription on a cakra felly (Brown 1996: 101, citing Cœdès and Vinaya). This fivefold repetition of "three knowledges" implies application to the five khandhas, i.e., the path to enlightenment.
- 13 The term refers to all conditioned phenomena. The five *khandas* are materiality  $(r\bar{u}pa)$  and mentality (nāma) classified as four, viz., consciousness (viññāna), feeling (vedanā), remembrance/perception (sañña) and formations (sankhāra, all cetasikas except feeling and remembrance) (S XXII 5, 48, 56).
- 14 For eleven or ten factors based on good conduct, see Anguttaranikāva (A V 311-312 and A V 1-2 respectively). Also the Sanskrit Nidānasūtra has ten (Krishnan 2007: 78), but based on khandhas. For nine-factors related to khandhas, see Dīghanikāya (D II 55-56). Cakras with ten or twenty spokes would be in conformity with the samsāracakra of the Visuddhimagga (Vism 207) and Majjhimanikāva (M I 55), which is based on the ten-factor formulation.
- 15 The Five Powers: faith, energy, mindfulness, concentration and insight or wisdom (A III 10).
- 16 See also Harvey (1990: 99) for numbers which correspond to the various components comprising the thirty-seven bodhipakkhivadhammas (things pertaining to enlightenment).
- 17 The top of the Sukhothai Indrakila is missing so its detail is not known. Betty Gosling (1996: 135, pl. 4.76) attributes the column to "Burmese influence," but it is not clear if this was the Rakhine cakras fronted by Indra [Table 1].
- 18 The Pvu may have used the *cakra* "palladium" since a mold for circular forms, which could be a miniature version like that on the Rakhine *cakra* [Table 1] and the Gupta coins, was found at Beikthano (Aung Thaw 1968: pl. LIVc).

- 19 In India, in Buddhist contexts, they occur flanking caityagrha entrances and ayaka platforms (Huntington 1985: figs 9.12, 9.17, 9.24; Rosen Stone 1994: pl. 16).
- 20 The alignment is not on the cardinal axes, but shifted slightly (FAD 2545: 26, 31). If there was a monument toward the south or southwest end of this axis, it apparently has not yet been found.
- It appears that Mueang Bon in Nakhon Sawan province (Dhida 1999: 182), which was a round city, has a river to the west and hills to the east.
- 22 Khao Thamorat and Khao Yai-Khao Lang San respectively; see Dhida (1999: 61, 104 for maps).
- Stephen Murphy (pers. comm.) citing Baptiste & 23 Zéphir (2009: 122, fig. 4). See also Table 1: KI.C; Dhida (1999: 103) and FAD (2550: 95).

- 24 Brown (1996) did not take this to be cultural influence, but more or less accidental transfer of aesthetic traits by the artisans.
- 25 The felly motifs are also less sharp, which tentatively may be a factor of workmanship perhaps of hasty production.
- 26 Known as Īśānapura, it was established by Iśānavarman I who reigned circa 611-630 CE (Briggs 1951: 46).
- 27 Also, the puzzling "gutters" in the foundation of Wat Phra Men's phase I (Dupont 2006: 21; Piriva 1975: 180, 187, 191), must have originally held large wooden foundation beams supporting wooden halls on the four sides of the solid core. These may have been damaged simply by fire or in war so badly as to make a rebuilding necessary.

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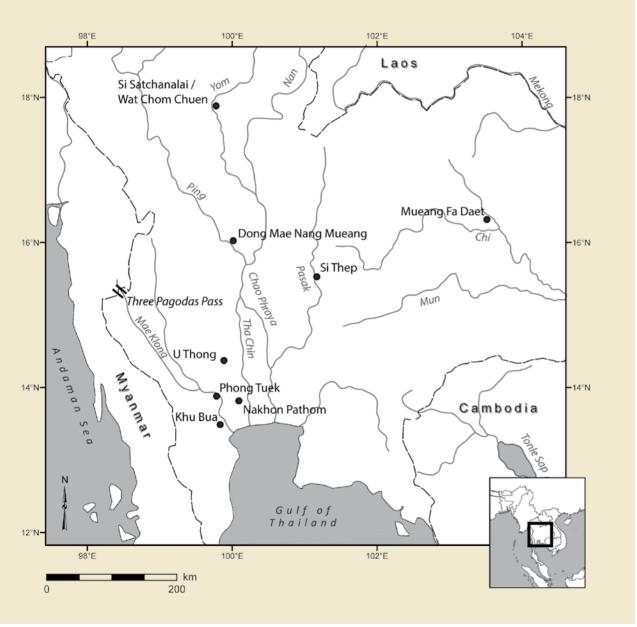
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# The Skeletons of Phong Tuek: Human Remains in Dvāravatī Ritual Contexts

WESLEY CLARKE



Map 1: Location of Phong Tuek and other sites mentioned, including Three Pagodas Pass on the Thailand-Myanmar border [Drawing courtesy of Matthew Gallon].

# Introduction

The arrival of Buddhism and Brahmanism in the region of central **L** Thailand, traditionally referred to as a period of "Indianisation," was originally presumed to bring with it a shift from prehistoric inhumation burial forms to cremations (Bronson 1976: 20-21; Glover 1980: 20, n. 1). The present essay has been prompted by a series of features that appear to combine Dvāravatī-era1 ritual architecture with human remains in contradiction to this expectation. The information newly presented here is part of a larger reconsideration of Phong Tuek,<sup>2</sup> estimated to be a mid-to-late first millennium CE occupation in Kanchanaburi province, western Thailand, that was germinal to development of the Dvāravatī cultural concept [Maps 1-2]. During brief investigations by George Cœdès in 1927 and Horace Geoffrey Quaritch Wales in 1936, the rural hamlet of Phong Tuek yielded Buddha figures of various sizes and materials, so-called "votive tablets" and other ritual objects, ritual architecture and architectural terracotta, a limited domestic assemblage and information on at least thirteen inhumation burials (Coedès 1928a, 1928b; Quaritch Wales 1936a, 1936b, 1937a, 1937b). Field reconnaissance by the present author in January 2008 produced additional information in all these categories, including descriptions of another structure with human remains associated (Clarke 2009, 2010 and 2011). The present essay focuses on the potential association at Phong Tuek of non-cremated human remains with the ritual architecture to which they are proximal, taking into consideration comparative data from other first millennium CE sites in Thailand labeled Dvāravatī by their investigators.

Phong Tuek was a key source of information for Cœdès' and Quaritch Wales' formulation of the "Dvāravatī concept," being one of the first sites where this cultural identification was applied. It also appears that the eleven burials excavated by Quaritch Wales in 1936 was the first systematically collected archaeological sample of human remains in Thailand (cf. Tayles & Oxenham 2006: 9). Even so, relatively little comment on these remains was offered by the original investigator or subsequent commentators, no doubt largely because Quaritch Wales asserted that the eleven burials he uncovered were not associated with the Dvāravatī component at the site.<sup>3</sup> Indeed, the investigative narrative for the human remains at Phong Tuek is a curious story of incomplete information, miscommunication, and dramatically shifting interpretation. The looted skeleton of a human "giant" noted by Cœdès (1928a: 195) was scattered and lost before it could be examined. None of the burials uncovered by Quaritch Wales were illustrated or



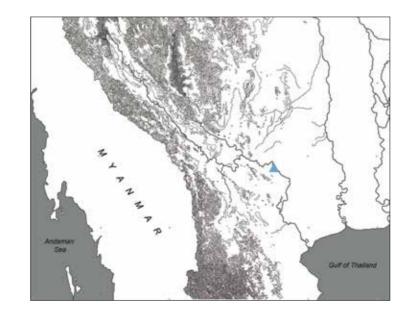
Figure 1: Cranium excavated by Quaritch Wales at his "stūpa location" and placed with the RCS Museum in London [After Quaritch Wales 1937a: pl. F].

described in even moderate detail; neither were their stratigraphic contexts diagrammed (Quaritch Wales 1936b). His assessment of the burials also wavered: Quaritch Wales initially suspected a connection between the burials and Dvāravatī architecture, but ultimately asserted that these were more likely to be "warriors killed in battle," residing in accidental proximity to the Phong Tuek structures (1936b: 46). A published consideration of three of the excavated crania, including one specimen purported to exhibit tooth-filing (Quaritch Wales 1937a) [Figure 1], was revealed after many years to reflect a misunderstanding between Quaritch Wales and his London analyst which, however, could not be redressed because the three retained skulls had been destroyed by German bombs during World War II!

The minimal and irregular nature of the published mortuary data from Phong Tuek has been subsequently mitigated to some degree by the "rediscovery" of Quaritch Wales' field notes for his Phong Tuek explorations.<sup>4</sup> These notes provide significant new information on mortuary, architectural, stratigraphic, and other categories of information beyond that published by Quaritch Wales. On the other hand, the notes are relatively minimal, considering the amount of work undertaken, and visually sketchy to the point of being difficult to decipher in many instances. Drawings of feature plans are not to scale, but still convey spatial relationships totally lacking in the published reports, which border on the anecdotal. Of particular interest to the present evaluation, the burials' general layout, individual disposition, associated artefacts, and relationship to structural elements are recorded in the field notes.

# The Site of Phong Tuek

The rural hamlets of Phong Tuek sub-district reside on the westward bank of the Mae Klong river in southern Kanchanaburi province,<sup>5</sup> Tha Maka district, western Thailand **[Maps 1-2]**. Phong Tuek has



Map 2: Phong Tuek's position (blue triangle) intermediate to the Central Plain on the east and the Tenasserim Highlands on the west [Base map courtesy of Podianok Kanjanajuntorn]. maintained a rural character, dominated by stands of banana palms and fields of cultivated sugar cane, corn, and chili peppers. The site locality resides on an elevated late Pleistocene deltaic fan at the foot of a mountainous zone to the west (Tanabe *et al.* 2003: 790, fig. 1; Fukui 1976: figs 1-2). The well-drained, drier soils are not suited for rice cultivation, and modern farming methods have permitted the development of dryland crops (cf. Glover 1991: 351). Passes in the western mountains allow direct connections between west-central Thailand and lower Myanmar, and Phong Tuek resides in a valley leading directly to the main such crossing, namely the Three Pagodas Pass **[Map 1]**.

Based on reports of villager finds spectacular enough to raise interest 100 kilometres distant in Bangkok, George Cœdès, then General Secretary of the Royal Institute of Siam, organised subsurface explorations in 1927 (Cœdès 1928a). These "excavations" were focused on the most productive villager find-spots and several low mounds of structural rubble, and they uncovered significant architectural remains and several ritual artefacts. Field work was halted, however, after less than four months and before all the extant rubble-mounds were explored (Cœdès 1928a: 195, 198; Quaritch Wales 1936b: 43).

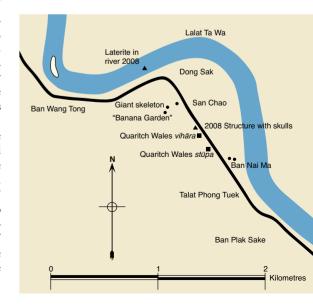
In January 1936, while waiting for the end of unseasonably late rains to gain passage to the walled urban centre of Si Thep, Quaritch Wales (1936b: 42-43) spent two weeks at Phong Tuek. This field work was part of a larger archaeological expedition organised by the Greater-Indian Research Committee (1936b: 42). Despite substantial looting by villagers during the nine years since Cœdès' visit, Quaritch Wales uncovered additional significant material data at the site, including structural foundations and adjacent inhumation burials.

The architecture and artefacts recovered by the 1927 and 1936 investigations, over a distance of 800 metres **[Figure 2]**, were interpreted by both Cœdès and Quaritch Wales to indicate "a city of the Buddhist kingdom located [...] between Cambodia and Burma [i.e. central Thailand] and provisionally referred to [...] under the name Dvaravati" (Cœdès 1928a: 208-209; Quaritch Wales 1936b: 42).

Despite this urban attribution, the true nature of the Phong Tuek settlement, and its placement in a larger Dvāravatī settlement hierarchy or heterarchy, remains uncertain. The lack of adequate information on Phong Tuek's content and layout – indeed, even a general impression of its areal extent – is reflected by Pierre Dupont's observation that "we are unaware of its true importance because research there was stopped rather quickly" (2006: 77-78).

Phong Tuek was among the first sites to be attributed by Cœdès to a Dvāravatī cultural tradition; it was also long considered to be the earliest known "Dvāravatī" settlement, based on the attribution of a so-called "Amarāvatī style" Buddha figure and a Mediterranean-style lamp to the early first millennium (Cœdès 1928a: 204, 207-208; Briggs 1945: 99, 106). Subsequent reanalysis of these objects, however, has placed them later in time (Brown & McDonnell 1989; Borell 2008; Clarke 2011: 59-63).

Figure 2: Drawing showing Cadès mounded architectural locations and locality designations (black circles), the Quaritch Wales site locations (black squares), and sites newly identified by the 2008 reconnaissance (black triangles) [Drawing adapted from Cædès 1928a: pl. 1].



# The Field Notes

The relocation of the field notes for Quaritch Wales' investigation at Phong Tuek provides significant new information for interpretation of the site, and also new dilemmas. The field notes encompass sixteen unnumbered pages in approximately a 20 by 25 cm.<sup>6</sup> composition book. What is presumed to be Quaritch Wales' writing is in a heavy hand that is rather "slapdash" and often difficult to read. Maps and drawings are similarly sketchy and not done to scale. There is a second, minority set of notations in the field notes, in a lighter and readily intelligible hand that is suspected to belong to his wife, Dorothy, who accompanied him to Phong Tuek (Quaritch Wales 1937: 128). These secondary notes follow a pattern of adding clarification to the heavyhanded notes, in some cases correcting information or providing an alternative interpretation. For example, the primary notes repeatedly refer to iron implements found with certain burials as a "weapon" or "dagger," reflecting Ouaritch Wales' interpretation that these were the remains of "warriors killed in battle" (1936b: 45-46). Written above the first hand's "weapon" for one of the burials, however, is the second hand's "cutting instrument," inserting a more prosaic utilitarian label (Ouaritch Wales 1936a: 11).

Reconstructions presented in this essay are extrapolations from both the field notes and the published reports. There are inconsistencies both within the notes and between the notes and Quaritch Wales' published accounts, and no doubt alternative reconstructions are possible. The present analysis has tended to give greater weight to information in the field notes, since this source has a more direct relationship to the original observations.

# Human Remains at Phong Tuek

Human remains were part of the Phong Tuek narrative from the first villager accounts in 1927. Among the reports of substantial finds drawing Cœdès' attention was the description of a "giant skeleton among gold and silver Buddha statues" (part of a headline in Bangkok's *Daily Mail* for July 28th, 1927, quoted in Cœdès 1928a: 195). The precious relics reported to have been found with these human remains apparently added to the frenzy of discovery at Phong Tuek, for by the time Cœdès arrived less than a month later the skeleton had been broken up and dispersed along with the associated artefacts, and additional villagers had "flocked to the place to dig for other treasures" (1928a: 195). Likewise, when Quaritch Wales arrived nine years later, he found evidence for much additional looting.

# Structural Features with Human Remains

The Coedès and Quaritch Wales field investigations of 1927 and 1936, and the present author's field reconnaissance in January 2008, resulted in the documentation of four instances of human remains at or near "Dvāravatī" levels and architecture. These include:

(1) A "giant" skeleton obtained from a "small cave in the ground" discovered by "a peasant tilling the soil in his farm" (Cœdès 1928a: 195). In the "cave," which was presumably a hollow architectural feature (burial or ritual vault?), the apparently extended body was lying next to a group of Buddha figures in gold, silver, and "brass." This feature was situated at the northern end of the Phong Tuek site locale, in a complex of ritual structures designated the "Banana Garden"<sup>7</sup> (Cœdès 1928a: 197, 199-200) [Figure 2]. Although little else can be related for the disposition and context of these human remains, it does appear to present a burial in association with a structure (the "cave"), as opposed to a simple mortuary pit, and with more substantial ritual structures close by.

(2) Quaritch Wales' short visit to Phong Tuek in 1936 focused on several brick rubble-mounds not examined by Cœdès (1936b: 43). The first of these, located approximately 450 metres southeast of the "Banana Garden" structures **[Figures 2-3]**, had been extensively and recently looted, but Quaritch

Wales nonetheless uncovered a relatively intact rectangular brick foundation measuring 6.3 metres northeast-southwest by 11 metres northwest-southeast (1936b: 44 and 1936a: 2-7). The basal course of this foundation was 80 cm. below ground surface. Quaritch Wales indicated that he uncovered an extended inhumation burial "just within the walls;" verbal and sketched notations suggest that this burial was in the structure's northern corner, paralleling the outer wall with the head situated to the southwest. The skeleton measured 1.7 metres in "height" (length), and was not accompanied by any "objects that might have thrown light on its period." It appears that the vertical range of this burial deposit was between 1.2 and 1.4 metres below ground surface (Quaritch Wales 1936a: 2-3 and 1936b: 44). A second burial previously dug up by local residents apparently more-or-less paralleled the grave excavated by Quaritch Wales, being described as having its feet pointing to near the midpoint of the northeast wall (Quaritch Wales 1936a: 3).

Quaritch Wales interpreted this structure to be a monastic assembly hall or "vihāra" (1936: 44). Villagers reported that about two years previously fifteen small images (presumably of Buddha) had been found within this foundation, along with a limestone double lotus pedestal with feet attached, and twenty heads and other fragments of images (Quaritch Wales 1936a: 3). During his excavation, Quaritch Wales also found "small fragments of the limbs of images in the blue limestone characteristic of the Dvaravati period" (1936: 44).

(3) At a second rubble-mound 60 metres distant from the previous location **[Figure 2]**, and less disturbed by looting, Quaritch Wales uncovered the lower sections of "the first stupa of the Dvaravati period that has been discovered, of which anything more than a base remains" (1936b: 45). These structural remains were entirely of brick, and included two rectangular platforms at the base, surmounted by four recessive octagonal levels **[Figures 4-5]**. The outside dimensions of

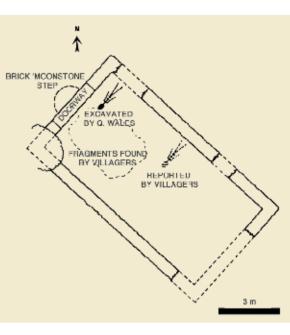


Figure 3: Reconstruction of the rectangular "vihāra foundation" layout excavated by Quaritch Wales in 1936, including locations for the uncovered burials [Drawing by Wesley Clarke]. Figure 4: Reconstruction of the "stupa base" and surrounding burial layout excavated by Quaritch Wales in 1936. Trench outlines are estimated with dashed lines; the pottery kiln location is approximate, based on a description in the field notes [Drawing by Wesley Clarke].

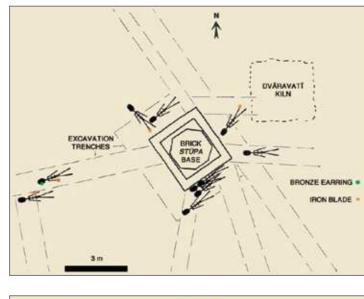
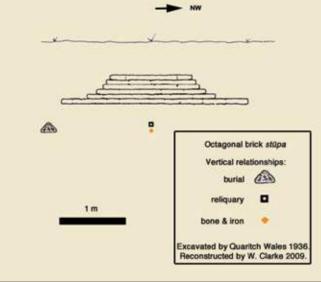


Figure 5: Reconstruction of the vertical profile of the small "stūpa" excavated by Quaritch Wales in 1936 [Drawing by Wesley Clarke].



the lowest rectangular platform were 2.9 metres northwest-southeast by 2.7 metres northeast-southwest; the largest octagonal level was 69 cm. long on each of the eight sides (Quaritch Wales 1936a: 10). The lowest course of brick rested at 97 cm. below ground surface.

Quaritch Wales excavated along the perimeter of the "*stūpa*" base to a depth of 1.8-2.1 metres below ground surface "with the object of ascertaining that natural soil had been reached;" he also dug at least nine radial trenches into the surrounding area (Quaritch Wales 1936a: 8-11; 1936b: 45). These explorations uncovered ten extended inhumation burials close to the "*stūpa*" (Quaritch Wales 1936a: 8; 1936b: 47). The burials resided in a vertical zone between 1.3 and 1.4 metres below ground surface (Quaritch Wales 1936a: 9-10; 1936b: 46), and were "lying full length" (1937a: 89), with none extending beneath the "*stūpa*" WESLEY CLARKE

structure (Quaritch Wales 1936b: 45). There was a concentration of four burials adjacent to and paralleling the southeast margin of the "*stūpa*" platform, and what may be intentional pairs of inhumations on the northeast, northwest and southwest sides of the "*stūpa*." Among the paired inhumations, four included iron implements – which Quaritch Wales labeled "weapons" and "daggers" – and one also had a "copper ring," presumably bronze, at the area of the right ear. No other grave goods were noted among the ten burials.

The elevated central core of the "*stūpa*" remnant was composed of earthen fill and Quaritch Wales (1936b: 45) excavated this medial axis, encountering a ritual deposit at a depth of 1.3 metres below ground surface (33 cm. below the brick base).<sup>8</sup> Items in this deposit included "a small silver casket containing cremated human relics;" 10 cm. below the casket, an "iron object of unknown use,<sup>9</sup> as well as a piece of bone" were found at 1.4 metres below ground surface on the central axis – "hence at the level of the skeletons" (Quaritch Wales 1936a: 11; 1936b: 45-46). Despite the latter comment, Quaritch Wales did not speculate further on whether this iron and bone might represent a burial underneath the so-called *stūpa*.

(4) During the January 2008 field reconnaissance of Phong Tuek, the interview of elderly resident Khun Chuan Laochan resulted in the tentative identification of a new structural location with associated human remains (Clarke 2011: 169-170) [Figure 2]. A small, lightly built structural remnant had been uncovered circa 1949, and a crew of seven monks was dispatched from nearby Wat Dong Sak to retrieve the large bricks for use in constructing a stairway at the temple. The newly uncovered structure was described as a square platform of brick (one course thick) approximately 5 metres on a side, with remnants of a light wall laid in a simple overlapping bond around the perimeter [Figure 6]. On the brick floor inside, a human skull was present in each corner, facing inward, and one skull was placed at the centre. There was no recollection of associated artefacts. The base of the structure floor was estimated to be between 1.4 and 1.5 metres below ground surface. This small structure had light brick construction similar to that of Quaritch Wales' octagonal "stūpa," and appears to be a subterranean compartment at a maximum depth similar to the graves surrounding the "stūba."

Khun Chuan Laochan reported that the central cranium was collected by the monks, due to its presence where bricks were being removed, and taken to nearby Wat Dong Sak, where it remained for about a year before it was burned as part of the annual mortuary cleansing of Chinese-style graves (surface vaults). The four corner skulls were said to have been left in place and reburied.

The ritual nature of the four structural locations described above is inferred from the associated ritual contents (the "giant's cave," excavated "vihāra" and "stūpa"), the architectural form (stūpa), or the arrangement of human remains and architecture (structure identified in 2008). Five additional structures documented for Phong Tuek [Figure 2] included a purported vihāra foundation at the "San Chao" location, composed of laterite (Cœdès 1928a: 200); a square laterite foundation at the "Banana Garden" location 100 metres southwest of the San Chao

"vihāra," with remnants of a brick superstructure, probably a small temple or shrine (Cœdès 1928a: 199); a square foundation of laterite at the "Ban Nai Ma" location approximately 800 metres southwest of San Chao, with square statue pedestal at the centre; a round foundation of laterite at the Ban Nai Ma location, interpreted to be a stūpa base (Cœdès 1928a: 198-199); and a deposit of large blocky laterite fragments in the Mae Klong river channel near the southern bank, approximately 488 metres northwest of the San Chao area, tentatively interpreted as the remains of a laterite structure eroded into the river (Clarke 2011: 166-168). One reason that human remains may not have been detected with these additional structures is the lesser depths of excavation at these locations. Photographs of the San Chao "vihāra" excavation indicate that subsurface exploration did not extend beyond the lowest construction course. This also appears to be the case at the "Banana Garden" structure. Photographs of the Ban Nai Ma structural excavations suggest that excavation continued to circa 25-30 cm. beyond the lowest foundation level, just short of the 30 to 56 cm. vertical separation between Quaritch Wales' excavated burials and foundations.

# **Collected Skulls**

Quaritch Wales retained three crania from the "stupa" burials and delivered them to the Royal College of Surgeons (RCS) Museum in London, to be stored there permanently as comparative specimens, and with the hope that they would "throw some light on the little understood ethnic structure of this region at the dawn of the historical period" (1936b: 47; 1937a: 90; 1964: 121). One of these skulls was determined to exhibit "tooth-filing," apparently on the upper medial incisors [Figure 1]. Quaritch Wales' request to the museum staff that a comparative study be made resulted in the assertion by curator A.I.E. Cave that "the skulls are certainly not Indian and they appear to be those of Thai people since they exactly resemble the Siamese skulls in the museum of the R.C.S., and show the same filing of teeth" (Quaritch Wales 1937a: 89). Quaritch Wales noted the startling nature of this information, suggesting as it did that "Thai colonies were already established in the Meklong valley [...] in the early centuries of the Christian era," directly contradicting the belief (still supported today) that Thai groups did not enter the region of Siam until the late first millennium or early second millennium CE (Quaritch Wales 1937a: 90).

These assertions had to be withdrawn over twenty-five years later, however, when subsequent communication between Quaritch Wales and Cave revealed that the curator's Thai attribution was an extremely generalised identification, asserting only that crania used for comparison with the Phong Tuek specimen were "of a similar provenance [Thailand] even though this was not accurately indicative of their racial affinity" (Quaritch Wales 1964: 121). In other words, Cave's original report that the Phong Tuek skull with tooth-filing "exactly resemble[s] the Siamese skulls in the museum" was not asserting that these comparative "Siamese skulls" were Tai or Thai specimens; they could, he later said, have "represented Malays hailing from Siam rather than genuine Thai people." As for an up-dated study of the Phong Tuek specimens, "unfortunately these skulls are not available for re-examination, since they were destroyed when the R.C.S. museum was bombed in 1941." Quaritch Wales assured (1964: 121), however, that "more such skulls could probably be found at P'ong Tuk."

Most mortuary data from Thailand, and the concomitant dental information, is prehistoric. While tooth-filing is not prehistorically unknown on the Southeast Asian mainland, intentional dental alteration in the region appears to have mostly involved ablation, that is, tooth removal (cf. Tayles 1996; Pietrusewsky & Douglas 2002: 70; Domett & Tayles 2004). Unintentional alteration observed on Thailand specimens includes abrasion, notching, and surface wear (Domett & Tayles 2004).

Quaritch Wales and Cave asserted that the pattern observed on the illustrated cranium was intentional filing. Given the limited, now unverifiable, record available for this behaviour at Phong Tuek, this assertion must be considered tentative at best, even as it is worth noting for comparison with any additional data that may be generated from the site or region.

# **Spatial and Temporal Relationships**

Quaritch Wales (1936b: 46) wavered in his evaluation of a potential connection between the excavated burials and the proximal architecture at Phong Tuek.

I was at first inclined to think that there was indeed a relationship between the skeletons and the *stupa*, which might have been built over the shallow grave of warriors killed in battle as a memorial to the occasion. While not being able absolutely to rule out this explanation I am now more inclined to think that the juxtaposition of the ten skeletons and the *stupa* is a matter of coincidence, and that had I been able to dig many more trenches I might have found more skeletons. For we have to explain the finding of at least one other skeleton beneath the *vihara* 65 yards away and lying in a similar position at practically the same level. Moreover, the finding of the silver relic casket, buried a few inches above the level of the skeletons, seems to be a sufficient explanation of the *raison d'etre* of the *stupa*.

The factors that led Quaritch Wales to an opinion that the human remains and structural features were not directly related included: the absence of diagnostic Dvāravatī-era artefacts in association with the burials (1936b: 44; 1937a: 89); the broad distribution of skeletons, as if in a large cemetery zone (1936b: 46); differences in depth between the burials and architecture, which Quaritch Wales calculated to represent as much as five centuries difference in age (1936b: 47; 1937a: 89); and the functional identification of the remains at the "*stūpa*" as being those of "warriors," in contrast to the ritual and reliquary functions of the so-called *stūpa* (1936b: 46). On each of these points, the line of reasoning taken by Quaritch Wales has obvious alternatives, and in some cases his evaluation seems to be faulty.

The low incidence of artefacts among the so-called *vihāra* and *stūpa* graves excavated by Quaritch Wales provides no strong basis to confirm Dvāravatī affiliation, but neither do the iron tools and bronze earring contradict a Dvāravatī age in the mid-to-later first millennium CE. Perhaps more significant is the consistent sparseness of the mortuary

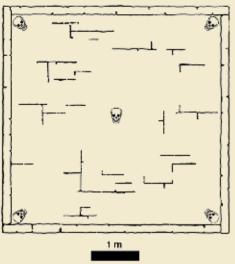


Figure 6: Reconstruction of a brick structure and associated crania described by local informants during the 2008 reconnaissance at Phong Tuek [Drawing by Wesley Clarke].

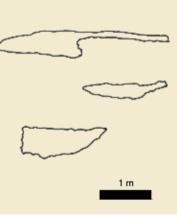


Figure 7: Outlines of three iron tools illustrated by Quaritch Wales in the 1936 report, recovered from burials surrounding the excavated "stūpa base" at Phong Tuek [Drawing by Wesley Clarke].

assemblage among the eleven excavated graves, a condition also present in the Dvaravati-era graves at Dong Mae Nang Mueang, Nakhon Sawan province, and at Wat Chom Chuen, Sukhothai province, where human remains are also juxtaposed with ritual architecture (see *infra* and Table 1). One postulate would be that this limited material presence is an intentional aspect of a ritual association, with materialism de-emphasised in graves placed in these ritual contexts. The incidence of four similar, plainly formed iron tools in four of the "stūpa" graves [Figure 7] also raises a question as to whether this material repetition indicates a social or functional connection among these individuals. Quaritch Wales chose to extrapolate the function of "warrior" to all ten "stūpa" graves from these material patterns, but his "weapons" (Quaritch Wales 1936a: 11; 1936b: 46) for use by warriors could just as well be utilitarian or ritual "cutting instrument[s]" (an alternative label applied in the field notes) used by lay residents or monks.

Quaritch Wales cited the presence of a "skeleton beneath the *vihara* 65 yards [59 metres] away and lying in a similar position at practically the same level" in his reasoning against an intentional relationship between the human remains and ritual architecture (1936b: 46). This seems to suggest (but does not explicitly state) that the excavated burial distribution is a window on a larger cemetery pattern. No intervening burials, however, were encountered by Quaritch Wales' excavations, which included multiple long trenches [Figure 4]; nor were intervening graves reported by local diggers. Quaritch Wales suspected, however, that "had I been able to dig many more trenches I might have found more skeletons" (1936b: 46). He did not recognise that the discrete incidence of graves with architecture at a substantial interval could be an indicator of a functional pattern.

Alternatively, the close spatial relationships of the exposed graves and architecture are apparent in Quaritch Wales' sketches and on the reconstructed plans [Figures 3-4]. The location of the "vihāra" burials within the foundation is obviously proximal, and Quaritch Wales himself described the ten burials at the "stūpa" as close to and "fairly well distributed all round the building" (1936b: 45), perhaps unintentionally implying a distributional focus on the structural location. He also speculated that these burials might be "a shallow grave of warriors" (1936b: 46 – see quote *supra*), apparently recognising the possibility that these burials could be a functionally unified feature.

Other aspects of the burials' spatial disposition suggest relationships with their respective structures. Just as both of the Quaritch Wales' structures have a northwest-southeast axis, so also do nine of the eleven exposed burials, with heads to the southwest – and the remaining two have their heads in westward orientations [Figures 3-4]. Additionally, the concentration of four burials on the southeast margin of the "*stūpa*" is striking. Quaritch Wales stated that these inhumations "were closely pressed together, the *nearest being almost under the brick base*" (1936b: 45; my emphasis). This suggests that these remains were deposited close to an existing architectural feature, rather than prior to construction of the "*stūpa*," since Quaritch Wales indicated that they did not extend underneath the structural base. The possibility that the "*stūpa*" construction randomly missed, or was intentionally placed in the midst of a concentration of pre-existing graves is judged to be less likely than the burials being installed adjacent to the existing "*stūpa*" foundation. Indeed, it would seem a remarkable coincidence that the so-called *stūpa*, superimposed on an earlier cemetery, would narrowly miss so many closely situated graves.

The "*stūpa*" burials can be interpreted to reside as four groups at roughly the four sides of the structure's base, with paired inhumations on the northwest, northeast and southwest (the latter at a greater distance), and the "closely pressed" group of four on the southeast **[Figure 4]**. Two pairs each have one individual with an iron implement. The wealthiest pair at the southwest, with two iron implements and a bronze earring, are located furthest from the "*stūpa*;" the group of four, with no grave goods noted, are deposited closest to the "*stūpa*." Whether these observed patterns of content and spatial arrangement are intentional is uncertain, but they would be consistent with a ritual program where material impoverishment is a virtue.

Quaritch Wales also emphasised differences in vertical stratigraphic separation between the architecture and the burials. Much of this focus was based on his calculation of the rate of alluvial accretion in the Phong Tuek locality, a procedure that seems flawed.<sup>10</sup> Assigning a highly generalised date of the sixth century CE to a Dvāravatī stratum 97 cm. below ground surface at Phong Tuek, and an eleventh century age to a Khmer stratum 61 cm. deep "at a site three miles up river," Quaritch Wales calculated an accretion rate of "1 foot [30.5 cm.] every 450 years" to account for the 35.5 cm. separation of these Khmer and Dvāravatī levels (1936b: 46-47). Several factors make this calculation problematical at best. The one-century "periods" assigned to the Khmer and Dvāravatī occupations are vague and arbitrary, unsupported by absolute dates and ignoring the usual temporal variation from site to site. Also, using occupational depths from positions "three miles distant [ca 5 km.]," and at different positions on the river's course, ignores the typical variation in riverine and alluvial dynamics; rates of alluviation and depths of occupational burial by sedimentation can in fact vary significantly even within a single locale, all the more so between localities "three miles distant." Quaritch Wales' computation, then, utilises overly generalised temporal periods and site areas likely to have dissimilar fluvial dynamics.

Given the measurements recorded by Quaritch Wales, the range of elevation among the burials and structural features does not seem to be substantial, certainly not to the point of demonstrating significant temporal separation **[Figure 5]**. Quaritch Wales' temporal calculation in fact assumed that the human remains "were not artificially buried and that the level on which they were found was the level at which they lived" (1936b: 46). Given this presumption, differential depths of even a few centimetres take on greater significance. Given a greater likelihood, however, that the human remains were not left on an open living surface, but were placed in burial pits or grave shafts, differences in basal elevation do not necessarily reflect differences in age. Quaritch Wales himself implied a recognition of these stratigraphic principles, stating that if the "warriors" were "artificially buried," this could "place their death between the first century **B**.C. [the placement he calculated using his alluviation rate] and the sixth century A.D. [the date he assigned to the architectural features]" (1936b: 46-47). Quaritch Wales therefore recognised that, if the excavated human remains were not lying on a living surface contemporaneous with their deposition – a stratigraphic interpretation for which he admitted "no evidence (as of potsherds, etc.) was obtained" (1936b: 46-47) – that these inhumations could just as well be contemporaneous with the nearby Dvāravatī architecture.

By Ouaritch Wales' measurements at the "vihāra" structure, the excavated skeleton ranged 1.2 to 1.4 metres below ground surface (Quaritch Wales 1936a: 3; 1936b: 44), indicating a vertical separation from the architectural base of 41 to 56 cm., a difference readily accounted for by the excavation of a burial pit. At the "stuba," the skeletal deposits ranged vertically between 1.3 to 1.4 metres, creating a vertical separation from the architectural base of 30 to 46 cm. (Quaritch Wales 1936a: 9-11; 1936b: 45). Perhaps most significantly, the axial ritual deposit excavated by Quaritch Wales at the so-called stupa was recorded at 1.3 metres below ground surface, crossing into the vertical range of the burials. An iron object and bone fragment encountered a few centimetres deeper on this axis were even more firmly "at the level of the skeletons" (1936b: 46). It is therefore the case that a principal element of the "stupa" configuration, the foundational ritual deposit, was positioned at essentially the same depth as the nearby burials [Figure 5].

Quaritch Wales' functional attribution of the human remains as "those of warriors killed in battle" seems rather fanciful, by all accounts based on the presence of iron "weapons" with four of the ten "stūpa" burials. A secondary notation in the field notes, believed to be by Dorothy Quaritch Wales, suggested that these items be labeled a "cutting instrument," but Horace Geoffrey seems to have been fixated on the warrior theme: "It is impossible to say," he wrote, "whether a weapon was the cause of a mortal wound, since none was found penetrating bone, or whether the weapon was the warrior's own, having remained clutched in his hand after death" (1936b: 46). In light of the numerous Iron Age burials now documented with iron tools on the Southeast Asian mainland, there would seem to be no compelling reason to view the Phong Tuek artefacts as other than domestic items, particularly in the absence of other conditions that would support a militaristic attribution, for example other categories of weaponry, or wounds noted for the skeletal remains.

Single extended inhumations with varying amounts of grave goods are said to be the "most common burial ritual in Thailand during the pre-metal, bronze, and iron ages" (Pietrusewsky & Douglas 2002: 177). Inhumations without surviving grave goods also occur. It has been asserted that inhumation burials are a pre-Indianisation phenomenon – that is, essentially prehistoric (Glover 1980: 20, n. 1). As of 1976, Bennet Bronson stated that "not a single inhumation burial associated with Indianized protohistoric or historic period artifacts has ever been discovered in Thailand" (1976: 20-21). True to this principle, the small "casket" excavated by Quaritch Wales at the octagonal "*stūpa*" was described as containing "cremated human relics" (1936b: 45), though there is no indication that the human nature of these contents was objectively verified.<sup>11</sup> It is possible that the juxtaposition of burials and ritual architecture at Phong Tuek is nothing more than the superimposition of structures on a pre-existing field of graves. For the reasons discussed above, however, the spatial relationships observed at these locations seem to favour an interpretation of contemporaneous association of the human remains and the ritual structures: burial orientations, and their horizontal and vertical positions, all appear to relate to the structural positions. Even so, it is still the case that the currently available data does not permit a conclusive assessment.

Regarding the newly identified structure reconstructed from the reports of local residents **[Figure 6]**, the intentional association of human remains and the brick feature are obvious. The presence of multiple crania and absence of post-cranial remains is clearly unusual and ritualistic in nature (cf. Pietrusewsky & Douglas 2002: 179-181). In general size, this structure, at 5-metres-square, is similar to the shrine foundation excavated by Cœdès nearby at the Ban Nai Ma location, which measured approximately 5.8-metres-square (1928a: 198). The deepest vertical extent of the newly documented structure, roughly estimated from memory, was said to be between 1.4 and 1.5 metres. This places the structure base in the general region of Quaritch Wales' maximum burial depths. Obviously, the identification and reconstruction of this structure is based on hearsay and must be treated with caution, but it seems to follow a consistent pattern of human remains occurring in association with Dvāravatī-level structures at Phong Tuek.

# **Comparative Sites**

The first sites labeled "Dvāravatī" and having architectural remains (a total of seven) were reviewed by Pierre Dupont; the recent English edition of this work with updates added seven more sites to this list (Dupont 2006: 17-93). The only site among these where human remains were noted by Dupont was Phong Tuek. These remains were, however, dismissed by Dupont as not seeming "to make any significant contribution to justify further research" (2006: 83), i.e. Dupont probably accepted Quaritch Wales' assertion that these burials were not related to the Dvāravatī component at Phong Tuek.

Sites with locations and ages potentially relevant for comparison to Phong Tuek have also been summarised by Amara Srisuchat (1998), Andrew Barram and Ian Glover (2008), the present author (Clarke 2011) as well as Pimchanok Pongkasetkan and Stephen Murphy (2012). Among the site reports available for this late prehistoric-early historic era, only a few include mortuary data. Table 1 summarises four sites identified for consideration along with the mortuary patterns at Phong Tuek. These sites have been attributed by their investigators to "Dvāravatī" or to components dated to the Dvāravatī time period as it is generally established, and are located within a geographic range associated with Dvāravatī in the literature. The brief consideration here of these sites and their mortuary data is not intended to ignore their varying temporal placements or potential associations with distinctive regional cultural traditions. These sites are considered, however, to be among the principal examples of inhumation burial so far documented for the mid-to-late segments of the first millennium CE.

#### Table 1: Dvāravatī-era Sites with Inhumation Burials

Site Name	Location	Date Range	# Burials	Burial Type	Grave Goods
Phong Tuek	Kanchanaburi province, western Thailand	7th-11th centuries CE	12-18	Extended inhumation, secondary inhumation	Minimal grave goods; iron knives, bronze earring
Dong Mae Nang Mucang	Nakhon Sawan province, central Thailand	8th-12th centuries CE	52	Extended, flexed, bagged inhumations; late cremations in stoneware boxes	Minimal grave goods; gold earring, iron object
Wat Chom Chuen, Si Satchanalai	Sukhothai province, north-central Thailand	"Early Dvāravatī" (5th-6th centuries CE)	15	Mostly extended inhumations, also flexed and bagged	Limited grave goods; terracotta paddles and figurines, glass and stone beads, iron object
Chaliang, Si Satchanalai	Sukhothai province, north- central Thailand	7th-9th centuries CE	9	Extended inhumation	Eroded on riverbank; no grave goods observed
Mueang Fa Daet	Kalasin province, northeast Thailand	7th-11th centuries CE	3 or more	Extended, jar (non cremation) inhumations; urn cremations	Spouted pots, small cup lamps, beads, bronze bracelets, iron implements

Extended inhumation and non-cremation jar burials at Mueang Fa Daet, a moated centre in northeast Thailand, have been published with a Dvāravatī attribution (Phasook et al. 1991; Phasook 2537 and 2544). Mueang Fa Daet has been extensively explored, including the excavation of fourteen brick-and-laterite foundations, and substantial Buddhist remains, including sculptural images, sema stones (Murphy, this volume), and moulded tablets of a regional style have been uncovered at the site. During excavation of a habitation area in 1991, cultural deposits up to four metres deep revealed a long sequence of occupation ranging from the "late Prehistoric" Iron Age, beginning circa 300 BCE, to an "Avutthava culture" component terminating circa 1800 CE. In the middle of this sequence, Phase 3 is identified by Phasook Indrawooth (2544: 75) as a "Dvāravatī culture" component circa 700-1100 CE. It is asserted that "the most interesting discoveries" in this level were "three human skeletons buried in full length with their head turned to the west and the south" (2001: 75). Items with these extended inhumations included spouted pots, small cup lamps, iron implements, and glass and stone beads (Phasook 2544: 76), an assemblage associated with so-called Dvāravatī sites as well as sites found elsewhere in Southeast Asia. Jar burials with uncremated contents were also present in this cultural level.

Phasook observes that the "Dvāravatī residents" of Mueang Fa Daet, unlike their contemporaries in the Chao Phraya valley of central Thailand, "continued to bury their dead," rather than shifting to cremation immediately after Buddhism arrived (2537: 120, figs 15, 17). The presence of these extended inhumations with typical grave goods in an excavated cultural sequence (earlier segments of which are radiocarbon dated) dispels the assertion that inhumation graves did not occur after Indic influences arrived in northeast Thailand.

Other comparative sites include two localities at the moated centre of Si Satchanalai (Hein *et al.* 1988; FAD 2540). One set of Si Satchanalai remains (Chaliang section) consists of nine inhumations eroding out of the Yom riverbank. These were encountered approximately 5 metres below ground surface, apparently extending out of a habitation level radiocarbon dated to *circa* the seventh-ninth centuries CE (Hein *et al.* 1988: 12, 14). The midden contained impressed and cord-marked earthenware pots, some burnished and painted, and spouted "*kendi*" and "flared mouth" (carinated?) jars – an assemblage that fits within the early historic pattern. No grave goods were noted with the eroded burials, which were all extended. Despite the absolute date, associated pottery types and proximity to the "Dvāravatī centre," the Si Satchanalai analysts state that the burials "appear to belong to an early habitation phase which may be prehistoric and non-Buddhist" (Hein *et al.* 1988: 14). No explicit reasoning is provided, but the fact that the burials are inhumations may be the basis of this observation, reflecting the presumption of cremationsonly after the arrival of Indic religious practices.

Fifteen burials were also encountered below architecture, perhaps a *stūpa* base, at Si Satchanalai's Wat Chom Chuen locality (FAD 2540; Pimchanok & Murphy 2012: 85). These were mostly extended inhumations, with a few flexed and bundle ("bag") burials as well, located in a stratum radiocarbon dated between the third and fifth centuries CE, "most likely belong[ing] to the Early Dvāravatī period" (Pimchanok & Murphy 2012: 85). Grave goods were sparse, but included terracotta figurines and paddles, glass and stone beads, and one small iron object, possibly a blade, with a male skeleton.

Fifty-two graves were excavated in 2009 among structural foundations at Dong Mae Nang Mueang (Murphy & Pimchanok 2010; Pimchanok & Murphy 2012), a smaller double-moated centre that has been investigated in various aspects over several decades. The site of a rubble-mound exhibiting sema-like "standing stones" was partially excavated, revealing a layer of architectural rubble including fingermarked bricks, stucco fragments that included floral and vegetal motifs, a few earthenware sherds and a possible terracotta finial, attributed to the "Late Dvāravatī period of the 10th to 12th centuries;" no prehistoric or historic Sukhothai/Avutthava components were encountered (Pimchanok & Murphy 2012: 78). Beneath this laver was a stratum one metre deep containing the burials at various levels and distributed across the entire area of the mound, with some brick and "Late Dvāravatī style" stucco, as well as green-glazed Angkorian ware, in the stratigraphic matrix. These graves included eight extended burials, eleven flexed, and twelve "bag" burials, with the remaining twenty-one unassigned. A group of two green-glazed Angkorian "boxes" or urns were also present in the burial stratum, containing "cremated human bone" (Pimchanok & Murphy 2012: 78).

As with other "Dvāravatī-era" inhumations discussed here, the remains at Dong Mae Nang Mueang also exhibit a paucity of grave goods, a condition said to be in "stark contrast to Iron Age mortuary traditions in central Thailand" (Pimchanok & Murphy 2012: 84). The only objects directly associated with these inhumations were a gold earring and an object that "may be iron."

The limited nature of this comparative data illustrates the current scarcity of mortuary information for Dvāravatī sites. Nonetheless, the repeated occurrence of non-cremation burials described above demonstrates the presence of this mortuary type during the "early historic" period in Thailand. The scarcity of information for both inhumation and cremation graves in central Thailand from that period may partly reflect the fugitive nature of the latter, and of not looking in the right places for the former. The excavation of early structural remains has often stopped at the foundation level, potentially leaving even modestly deeper burials undiscovered. This situation may pertain at Phong Tuek, for it is the case that of the six structural locations systematically excavated at the site, contiguous human remains were encountered only at the two locations where Quaritch Wales' investigation proceeded well beyond the foundation level.

# Conclusion

The principal objective of this inquiry has been to describe and evaluate the co-occurrence of human remains and ritual architecture at the Dvāravatī site of Phong Tuek. Recognising that the available data on the content and stratigraphic disposition of mortuary features at Phong Tuek is not adequate to support definitive evaluation, even when augmented by the excavator's field notes, the reconstructed spatial relationships are nonetheless compelling in their suggestion of a contemporaneous, functional connection between the human remains and structural features. Taken together with the evidence accumulating from other sites, the proposition that inhumation burials are sometimes present in early historic ritual contexts is strongly supported, and it behooves field workers to develop excavation strategies that take this into account. As detailed information is generated at Dvāravatī and other early historic sites, and specific mortuary regimes described, questions regarding ritual practices and other social functions, as well as social ranking and sacred-secular differentiation can be better addressed. In particular, the pattern of inhumations and sparse grave furnishings in proximity to ritual structures is an intriguing phenomenon in need of more study. Such features may represent early Buddhist or Brahmanical practices that are heretofore un-described in premodern Thailand.

It would appear that a new paradigm for mortuary practices can now be postulated, in keeping with Phasook Indrawooth's previous observation that the residents of Mueang Fa Daet "continued to bury their dead" rather than shift to cremation. Contrary to earlier observations, such a shift did not occur uniformly across the early historic horizon in Thailand. Indeed, the persistence of Southeast Asian burial traditions after the arrival of Indic religious and socio-political cultural elements speaks to the process by which such exogenous practices were accepted and adapted. Since the late 1970s, as systematic information has accumulated from excavated sites, there has been a growing recognition that a "sub-regional" or "localised" diversity of social practices and material forms has been typical on the Southeast Asian mainland through time. This is certainly the case in Thailand, where "one of the most interesting outcomes of surveys and excavations [...] is the recognition of regional variability; that what is true for the northeast does not hold for central, west or southern Thailand" (Glover 1991: 352).

Sub-regional distinctiveness is particularly evident among ceramic assemblages during the first millennium (Glover 1980: 19; Sawang 2005: 66; Stark 2006: 100), but is also reflected in other material categories, including mortuary practices (Pietrusewsky & Douglas 2002: 188; White 1995). Distinctiveness is often observable even among sites "closely situated to one another" (Glover 1980: 19). Peter Skilling indicates that the dominant religious tradition was also subject to regional adjustment, noting that "the Buddhisms of the Mon, Burmese, Central Thai, Shan, Lanna Tai, Lao, and Khmer are each quite distinctive" in their art and practices (2003: 103, n. 39). The persistence of Southeast Asian inhumation burial is another demonstration that the response to new Indic ideas and objects on the Southeast Asian mainland was neither uniform nor wholesale. Instead, new elements were selectively adopted and amalgamated with local indigenous traditions. Field strategies that include the active search for and recovery of mortuary data at Dvāravatī sites will be an important component in expanding our understanding of this process.

# Acknowledgements

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# Endnotes

The term "Dvāravatī," as a label for an archaeological culture, a time period, a polity or polities, and/or an art style, continues to be variously defined (cf. Barram 2003; Skilling 2003; Barram & Glover 2008; Glover 2010; Saritpong et al. 2011; and Gallon 2013). Elements that are emphasised in describing a Dvāravatī phenomenon or for postulating what such a phenomenon may encompass often reflect the differing foci of scholarly disciplines, particularly those of art history and archaeology. In the present essay, the term "Dvāravatī" is used in its most generic sense. reflecting the wide-ranging manner by which the term has been applied in reference to the period and territory where Buddhist and Brahmanical practices first became widespread in the region of Thailand. These conceptualisations generally involve the mid-to-later first millennium CE (ca seventh-eleventh centuries) in the area of central Thailand, though adjacent regions and sites are also often included. The conceptualisation of Dvāravatī requires additional refinement, including non-elite and non-ritualistic aspects of this cultural phenomenon, and substantial

additional data collection and analysis will be necessary to accomplish this.

- 2 Per the editorial requirements of the present volume, the site name is given here as the modern transliteration "Phong Tuek." Bibliographical or general online searches, however, will find that virtually all scholarly studies connected to the site use a derived spelling originally given by Cœdès as P'ong Tük.
- 3 A scholarly observation in the 1960s appears to have remained true into the twenty-first century: "the skeletons discovered at P'ong Tuk were ignored entirely by students of Thai history" (Sood 1966: 234).
- 4 These notes were found with a collection of Dr Quaritch Wales' papers at the archives of the Royal Asiatic Society (RAS), London. This collection was donated by his widow, Dorothy, *circa* 1995 (Guy 1995; RAS 1995). The author is grateful to the Society for allowing a photocopy of the notes to be made for use in the reevaluation of Phong Tuek.
- 5 At the time of the Cœdès investigation, Phong Tuek was in "Ratburi" (Ratchaburi) province.

- 6 Per editorial requirements, dimensions are given here in metric units; the original English measurements are eight by ten inches.
- 7 Cœdès also refers to this location as the "Banana Plantation" (e.g. 1928a: pl. 6).
- 8 Whether this axial deposit should be assigned a reliquary function is uncertain. Ślączka (2007: 6) makes a convincing case that many foundational deposits termed "relic" or "reliquary" are actually consecration deposits (*garbhanyāsa* i.e. "the placing of the embryo") offered during rituals that insure the safety and prosperity of the facility and its occupants, as well as animating and consecrating the ground where construction is occurring (2007: 201-202, 217-219).
- 9 This item is identified as an "iron hook" in Quaritch Wales (1936a: 11).
- 10 "It is necessary to emphasise that introducing fictitious details is dangerous since the chronology

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11 It appears that the human origin of the calcined bone contents of this ritual container is a presumption on Quaritch Wales' part, as may be his functional attribution of "stūpa" instead of *caitya*. Ślączka (2007: 259, n. 101) observes that the "ashes" found in such "reliquary caskets" are usually unverified chemically and may not even be "anything of animal origin at all."

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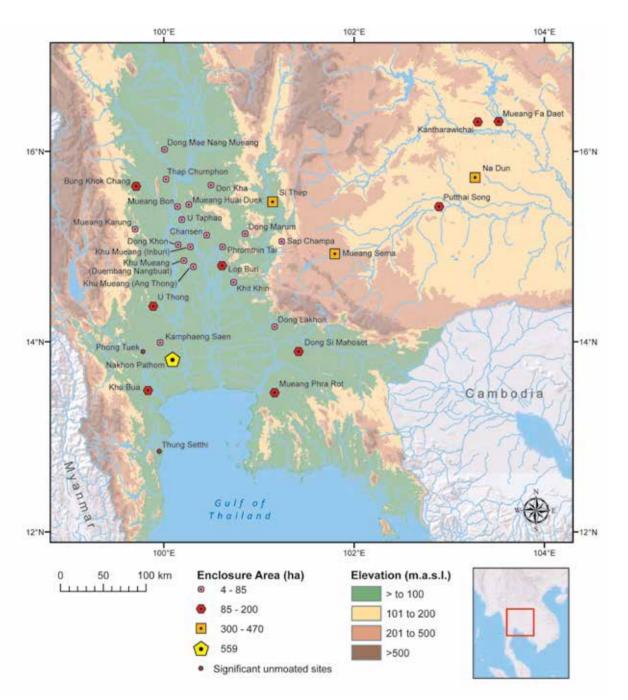
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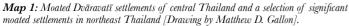
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# Monuments and Identity at the Dvāravatī Town of Kamphaeng Saen

MATTHEW D. GALLON

# Introduction

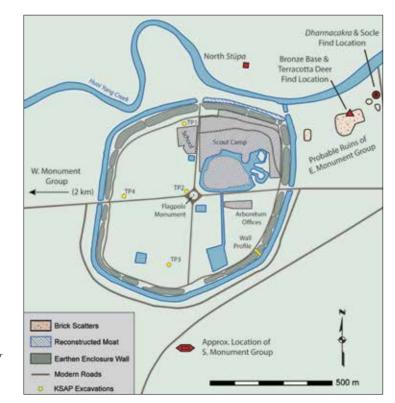
Throughout the ancient world, the emergence of urban centres entailed a dramatic growth in the number of people living within a single settlement. The diversity and size of the populations of early urban centres often overwhelmed the kinship-based mechanisms that for several millennia had maintained social cohesion in sedentary village communities. New social identities and relationships were needed to help unite groups of people who lacked strong kinship ties, and in some cases, had significant cultural differences. During the first millennium CE, the people of central and northeast Thailand faced these challenges as they underwent increased population aggregation, political centralisation and urbanisation. As part of these dramatic changes, the residents of these regions developed new social identities, expressed in part through shared forms of material culture, town plans and religious practices. The spread of this suite of cultural similarities marks the rise of an archaeological culture known as Dvāravatī.<sup>1</sup>

In this essay, I focus on how Dvāravatī communities created and reinforced religious, specifically Buddhist, identities through monument construction and the configuration of space within and around their settlements. Using the results of my archaeological research at the Dvāravatī centre of Kamphaeng Saen as an example, I show how the residents placed monuments and sculpture to materialise Buddhist concepts within their settlement's landscape. I then argue that the location of Buddhist material at Kamphaeng Saen fits within a broader pattern of the spatial configuration of Buddhist monuments in central Thailand. This pattern reveals shared concepts of religious space and identity among the residents of these centres. The spatial context of Buddhist monuments within these settlements also provides insights into some of the dynamics between political and monastic institutions at that time, and how Buddhist practices and monuments helped create new group identities and relations among and between both groups.

# Preliminary Explorations at the Dvāravatī Centre of Kamphaeng Saen, 1939-1992

Kamphaeng Saen is located in Nakhon Pathom province, in westcentral Thailand, often considered the heartland of the Dvāravatī culture **[Map 1]**. A moat and wall enclose a 53 hectare area at Kamphaeng Saen. Based on measurements of the moated area of Dvāravatī period sites (Gallon 2013: figs 4.16, 4.18), Kamphaeng Saen can be considered a fourth-tier centre and the smallest enclosed settlement in the west-central region from this period **[Map 2]**.<sup>2</sup> By contrast, Kamphaeng Saen's nearest neighbouring enclosed settlement, only 25 kilometres to the south, is the urban centre of ancient Nakhon Pathom, whose impressive 659 hectare moated enclosure makes it the largest Dvāravatī settlement. U Thong, located roughly 40 kilometres north of Kamphaeng Saen, is the next closest moated centre, with an enclosed area of 96 hectares. Nakhon Pathom and U Thong have well-documented Buddhist monuments both inside and outside their enclosures, as well as numerous Buddhist sculptures, often from unknown intra-site locations (Dupont 1959; Boisselier 1968 and 1970; Arunsak *et al.* 2545; Usa 2009). Several stone Brahmanical or Hindu sculptures (i.e. Śiva *lingams* and a stele of a mitred-Viṣṇu) were recovered at U Thong (Quaritch Wales 1946; Arunsak *et al.* 2545), and two Śiva *lingams* were found associated with laterite structures interpreted as temples at Khok Chang Din, located roughly 3 kilometres outside U Thong (Somsak 2510; Phattharaphong 2545).

Even though Kamphaeng Saen's enclosure is significantly smaller than other moated settlements in west-central Thailand, it shares some key features with its larger neighbours and with Dvāravatī settlements elsewhere in central Thailand. Dvāravatī moated settlements are typically located near waterways that feed their moats. Kamphaeng Saen is located adjacent to the south bank of the Huai Yang stream, which ultimately flows into the Tha Chin river. The Huai Yang feeds a moat that encircles the site in an irregular polygon shape of roughly 750 x 780 metres. The moat is 16 to 20 metres wide and is still filled with water throughout the entire year. The earth removed during the moat's construction was piled along its interior edge forming a rounded



earthen wall, which is currently 2.5 to 4 metres above ground surface and 18 to 30 metres wide.<sup>3</sup> The moat and wall enclosure follow an irregular polygon plan, consistent with other early Dvāravatī enclosures that typically have irregular to oval plans (Quaritch Wales 1969: 116-117; Mudar 1999: 5).

Pierre Dupont (1939), Jean Boisselier (1965) and H.G. Quaritch Wales (1969) all made brief visits to Kamphaeng Saen to investigate Dvāravatī-style sculpture found by local residents. During a visit to the site in the late 1930s, Dupont (1939: 364-365 and 1959: 199-200, figs 401-403) examined three sculptures of standing Buddhas (approximately 50 cm. high) found outside the



settlement enclosure and then moved to the modern Kamphaeng Saen monastery **[Figures 1a-b]**.<sup>4</sup> All were carved out of laterite and then covered with stucco. The production technique and style of the images led Dupont (1939: 364-365 and 1959: 144) to characterise them as part of a localised sculptural tradition of the "late Dvāravatī period." Based on the slab backing on these images, he also hypothesised that they were set in niches of a religious structure (Dupont 1959: 199). Dupont (1939: 364-365) noted that the monks had recovered the images from small brick-covered mounds that were located outside the settlement enclosure to the northwest; however, Quaritch Wales (1969: 50) later observed that the mounds where the statues were found were located "outside the eastern gate of the town," and in 1992 Somprasong Nuamboonlue (2539) and his team documented an oral history by a local resident confirming their recovery east of the settlement.

In 1963, a *dharmacakra* (Buddhist Wheel of Law) [Figure 2] carved from blue-green limestone and a carved stone base or socle [Figure 3] were found at Kamphaeng Saen (Chira & Woodward 2509: cat. 22; Quaritch Wales 1969: 50). Today both sculptural pieces are housed in the Phra Pathom Chedi National Museum in Nakhon Pathom. Little is known about their in situ context, but Quaritch Wales (1969: 50) mentioned that they were found "somewhat further to the east" of the brick mounds where the three statues of the Buddha were recovered. The triangular base of the *dharmacakra* frames a figure that Chira Chongkol and Hiram Woodward (2509) identified as "a divinity or royal personage holding an unopened lotus in each hand." Due to the simplification of the decoration around its rim both Quaritch Wales (1969: 138) and Robert Brown (1996: 132) placed the dharmacakra from Kamphaeng Saen in a late group in their typologies of Dvāravatī *dharmacakras* (Quaritch Wales's type 4; Brown's group 5). Brown (1996: 136-137) suggested that this group of wheels may date to the late seventh or eighth century CE, but cautioned that this was highly speculative.

The socle found with the *dharmacakra* bears an inscription that refers to the "Four Noble Truths" of Buddhism.<sup>5</sup> The inscription is written in Figures 1a-b: Two of three stucco on laterite Buddhas recovered at Kamphaeng Saen in the early 20th century CE: left, currently located in Wat Kamphaeng Saen; right, currently located in Wat Sawang Chat Pracha Bamrung [Photographs by Matthew D. Gallon].

Map 2: A map of Kamphaeng Saen showing the location of exterior religious monuments and the KSAP test excavations [Drawing by Matthew D. Gallon].



Figure 2: The dharmacakra from Kamphaeng Saen; 67 cm. diameter. Currently located in the Phra Pathom Chedi National Museum, Nakhon Pathom, inv. no. 38/2541 [Photograph by Matthew D. Gallon]. Pāli with a script derived from southern India (similar to Pallava), which Cœdès's dated to the eighth century CE.<sup>6</sup> It is located on either the top or bottom of the socle, depending on the sculpture's original orientation. Brown (1996: 108) observed that the script is relatively large, which might indicate that it was meant to be read from the ground by a viewer looking upward at the bottom of the socle as it sat atop a pillar supporting a *dharmacakra*. Literacy in Pāli, however, was likely low, and the inscription's primary function may have been to spiritually empower the sculpture or impress viewers rather than provide information about Buddhist doctrine (Revire, this volume).

Based on reports and oral histories, Somprasong (2539: 31-34) identified the general locations of four groups of ruins of brick structures outside the settlement enclosure to the north, east, south and west. Due to their brick construction and mound-like character, these structures were probably either reliquary or commemorative Buddhist *stāpas.*<sup>7</sup> The group of ruins to the north of the enclosure were located on the opposite side of the Huai Yang stream and included a large mound with a base roughly  $12 \times 12$  metres (Somprasong 2539: 33). Four smaller ( $2 \times 2$  metres) structures were reportedly located at each of its corners, but had been

destroyed by ploughing. The structures located east of the settlement were described by Somprasong (2539: 32) as seven mounds aligned in an east-west line, with a small circular pool of water at its eastern end. Unfortunately, he did not specify the mounds' dimensions or their distances from each other and the settlement. About 400 metres south of the settlement enclosure, Somprasong (2539: 32-33) identified a third group of ruins with six brick mounds. They had bases approximately 4 x 4 metres and, like the eastern group, were configured in an eastwest line. Based on this similarity, he speculated that there had been a seventh stupa mound in the southern group that had been destroyed and was no longer visible. The final group Somprasong (2539: 32) identified was located about 2 kilometres west of the town, significantly further from the settlement than the other groups. Half of the main mound in this group had been destroyed by road construction; the base of the ruins of the remaining structure was 15 x 24 metres. He also identified the base (roughly 12 x 12 metres) of a smaller structure due east of the main structure, as well as a 45 metre square water pool 100 metres further east. Somprasong's documentation of ruins and oral histories in the area around Kamphaeng Saen provided a valuable record of this landscape, which has undergone significant changes even since his study. While there is a strong likelihood that many of the structures he documented are contemporaneous with the Dvāravatī occupation of Kamphaeng Saen, it was beyond the scope of his study to conclusively determine the age and function of the structures or precisely map their location and configuration.

In contrast to the area outside the settlement's moat, there is little evidence for religious monuments inside the moat and wall enclosure. Today, this area contains a scout camp, primary school and arboretum, all built after the mid-1960s. With the assistance of the scout camp watchman, Quaritch Wales (1969: 50) identified low densities of potsherds on the surface in some parts of the site, with other areas void of any surface material. He noted that the surface ceramics included earthenware sherds from cord-marked vessels and carinated vessels, resembling those commonly found at other sites affiliated with the Dvāravatī culture. Based on the irregularity of the plan of the enclosure and the low density of surface material, Quaritch Wales (1969: 51) speculated that Kamphaeng Saen was founded as "an early outpost towards the sea which stagnated rather than developed with the establishment of a definitive seaside capital at Nak'on Pathom."

Dupont (1939), Boisselier (1965) and Quaritch Wales (1969) did not report seeing any monuments inside the settlement enclosure during their visits to the site. Alternatively, Somprasong (2539: 32) recorded oral histories from local residents who claimed a stuba base (i.e. chedi in Thai) had been located at the centre of the settlement enclosure. Somprasong did not provide any details on the size or construction of the monument, although he noted that one informant said there was an inscription on a stone that was apparently part of the monument. Attempts to plough this area with a tractor were reportedly unsuccessful and, as a result, a flagpole was built over the location of the monument. Today no premodern construction materials are visible under the flagpole base. In the southeastern part of the enclosed area, Somprasong (2539: 34) was shown more substantive evidence for a monument in the form of a pile of bricks, whose base he believed resembled that of a monument. Unfortunately, he did not report the exact location of the pile, its dimensions, or the sizes of the bricks it comprised. In the north part of the site, Somprasong (2539: 31) documented the recovery of numerous Indo-Pacific glass beads, of types typically found at first millennium CE sites in central Thailand, as well as a clay Buddha image of uncertain age. Two bronze Buddha images were reportedly found in the northeast part of the site. One is small and eroded, making its age difficult to determine; the other appears to be a later Ayutthaya period Buddha (ca 1350-1767). These opportunistic finds and observations confirmed that the site was occupied during the Dvāravatī period, while raising additional questions about the chronology and nature of its establishment, growth and decline.

# The 2009-2010 Kamphaeng Saen Archaeology Project

From January 2009 to August 2010, I directed the Kamphaeng Saen Archaeology Project (KSAP), under the supervision of the 2nd Regional Office of the Fine Arts Department (FAD), to investigate the site through field research and subsequent analyses (Gallon 2013). Despite the chance finds of Dvāravatī sculpture and cultural materials discussed above, no site-wide systematic archaeological investigation had yet been conducted at Kamphaeng Saen. As a result, the project addressed fundamental questions about site chronology, organisation and function; baseline information essential for examining how the emergence of urban centres in central Thailand affected both the residents of ancient Kamphaeng Saen, as well as their relationships



Figure 3: The Pāli inscribed socle from Kamphaeng Saen; 36.5 cm. wide x 38.5 cm. long. Currently located in the Phra Pathom Chedi National Museum, Nakhon Pathom, im. no. 37/2541 [Photograph by Matthew D. Gallon]. with neighbouring communities like Nakhon Pathom and U Thong. The KSAP team was particularly interested in how the construction and configuration of religious monuments may have both encouraged and reflected the emergence of shared concepts of identity among the residents of these centres. To investigate these questions the KSAP employed a combination of pedestrian survey, auger coring and excavation.<sup>8</sup>

Full coverage survey of the area inside the enclosure confirmed Ouaritch Wales's (1969: 50) observation of an uneven distribution of low densities of ceramics on the ground surface, almost exclusively earthenware sherds resembling those in assemblages from other Dvāravatī culture sites. The KSAP team did not find any mounds of in situ Dvāravatī-style bricks within the site interior, although we did document a few isolated bricks of indeterminate age and numerous earthen mounds that post-date the Dvāravatī occupation of the site.9 Auger core samples collected throughout the interior revealed a combination of open and occupied areas, but did not encounter any indications of sub-surface monuments. Auger coring around the flagpole base at the centre of the site, the location of the supposed stūpa base mentioned by Somprasong (2539: 32), did not encounter any sub-surface impediments or architectural debris, and only one brick fragment of indeterminate age was identified in this area on the surface. The lack of architectural debris in this area raises serious doubts about the existence of a brick monument in this location, but it is possible that it may underlie the flagpole base (approximately 3.5 x 5 metres) or was completely destroyed and removed during the construction of the flagpole and the surrounding road.

Test excavations in four different parts of the site interior recovered Dvāravatī ceramics, ground stone, and glass beads, without significant evidence for pre- or post-Dvāravatī phases of occupation. We found a few isolated bricks, but they were not associated with any other evidence for monuments or religious objects, and appear to have been used in domestic contexts. We also cleaned a pre-existing cut through the earthen enclosure wall and extended it to natural soil, revealing that the wall was entirely built of earth and dated to the site's initial occupation.<sup>10</sup> AMS radiocarbon dates from the excavated contexts indicated that occupation of the site began around the fifth or sixth century CE and was most intensive from this initial period through the seventh century CE. After this initial phase, the density of occupation significantly decreased, but continued until the ninth century CE, after which the site was largely abandoned. Our excavations did not identify any evidence to explain the site's premature decline, but as Quaritch Wales's (1969: 51) speculated, urbanisation and centralisation of political power at nearby Nakhon Pathom likely played an important role.

Investigations of the landscape outside the enclosure included surveys and attempts to locate and more precisely document the exterior monument ruins described by Somprasong (2539: 32-33). We were unable to locate either the south or west monument groups, but identified the north  $st\bar{u}pa$  155 metres from the settlement enclosure on the opposite side of the river and scatters of bricks 50 to 300 metres east of the enclosure [**Map 2**]. The north  $st\bar{u}pa$  ruins were covered by dense brush making it difficult to document; however, the mound appeared to have a square foundation, roughly 12 x 12 metres, a solid core roughly 2 metres high and an approximate orientation of 9 degrees east of true north [Figure 4]. On average, the bricks of this monument were slightly smaller than those in the field east of the site (see *infra*), but they contained similar temper of rice grains and chaff and were within the size-range of bricks found at Dvāravatī period sites. No stucco ornaments or sculptural fragments were visible on the surface of the mound or the surrounding ground surface, and a survey of adjacent fallow fields encountered no other archaeological material. Future clearance and excavation are needed to more conclusively determine the monument's plan and age.

Our surveys of a selection of fallow fields within 1 kilometre of the enclosure exterior identified only a few modern ceramic sherds in fields north, south and west of the site, but in an area east of the enclosure we identified complete and fragmentary Dvāravatī-style bricks scattered around a recently dug reservoir and nearby fields **[Figure 5]**. We did not identify any *in situ* bricks or structures in this area. The bricks had variable dimensions and levels of oxidation, but were on average 32 x 16 x 8 cm., incompletely oxidised (i.e. had a black core) and tempered



Figure 4: Ruins of the north stūpa mound with members of the survey team (view north) [Photograph by Matthew D. Gallon].



Figure 5: A scatter of Dvāravatīstyle bricks in a field east of the settlement enclosure (view north, north-west) [Photograph by Matthew D. Gallon]. with rice husks and grains [Figures 6a-b]. The bricks from the scatters resemble examples from other Dvāravatī sites such as U Thong, Nakhon Pathom and Khu Bua. The brick scatters likely represent the remains of the "much dug-over" brick mounds described by Quaritch Wales (1969: 50) and the seven mounds described by Somprasong (2539: 32).

Just east of the brick scatters, Mr Pisit Thonatanat, a member of the local historical society and long-time resident, showed us the general location where the *dharmacakra* and inscribed socle had been recovered in 1963, roughly 350 metres east of the moat and 100 metres south of the river [Map 2]. This location is consistent with Quaritch Wales's (1969: 50) description of the discovery of these two sculptural pieces "somewhat further to the east" of the mounds with bricks. In our surveys of the fields east of the settlement enclosure we identified only the scatters of brick and no other archaeological materials. This initially perplexed us, but through discussions with a local farmer we learned that he and others had found and collected a few earthenware sherds and sculptural fragments near the brick scatters. His small collection of sherds comprised fragments of earthenware vessels with features common in Dvāravatī assemblages, and included three notable pieces: a rim that resembles those typically found on a type of high-necked vessels referred to as "water-pots" (e.g. Phasook 2528: pl. 27, fig. 10.1-5, 10.10); a fragment of a tall tubular finial that came from either a small stūpa or an ornate lid (e.g. Phasook 2528: fig. 15) [Figure 7]; and a leg from a vessel stand (e.g. Phasook 2528: pl. 45, fig. 16) [Figure 8].

The farmer also found two sculptural objects in the field east of the settlement enclosure. The first was a terracotta head of a deer [Figure 9], a symbol commonly associated with Buddhism, and documented at other Dvāravatī sites, albeit in stone (Brown 1996: figs 69-75). The second was a bronze pedestal in the shape of a lotus with the feet of a standing figure on its top [Figure 10]. Unfortunately the sculpture had broken at both the lotus's stem and just above the figure's ankles. Two Dvāravatī stone sculptures, one from Lop Buri (FAD 2552: fig. 22) and another from Nakhon Pathom (Brown 1996: fig. 79; FAD 2552; fig. 25), depict the Buddha a top a mythical beast (either identified as Phanasbodi or Sūrya respectively) and flanked on either side by an attendant (variously identified as Bodhisattvas or gods Indra or Brahmā) who is standing on a stemmed lotus. The depiction of the Buddha on a mythical beast flanked by attendants is unique to Dvāravatī art; art historians believe the motif developed between the end of the eighth and the ninth century CE (FAD 2552; Baptiste & Zéphir 2009: 82-87). Two other Dvāravatī stone and bronze sculptures depict a celestial Buddha and an attendant to either side, with the three figures standing on lotus blossoms that all emanate from the same stalk. These images were recovered from Khok Samrong, Lop Buri province and the Chedi Chula Prathon in Nakhon Pathom, and may date to the first and second half of the eighth century CE, respectively (Piriya 2012: 92-93, figs 1.88, 1.89). To varying degrees, the lotus bases in these images resemble the bronze sculptural fragment from Kamphaeng Saen and raise the possibility that it came from a similar image.<sup>11</sup> The relative dating of these lotus bases overlaps with the timeframe given for the *dharmacakra* and inscription from Kamphaeng Saen, suggesting significant investment in Buddhist sculpture at the settlement in the eighth century CE.



Figures 6a-b

In addition to the sculptural pieces whose provenance east of the site was verified by the farmer, the modern Wat Kamphaeng Saen has several Dvāravatī-style stucco and terracotta sculptural pieces in its museum that were reportedly recovered at Kamphaeng Saen.<sup>12</sup> Dupont (1939), Boisselier (1965) and Quaritch Wales (1969) reported seeing only the three stucco and laterite Buddhas and no other stucco fragments during their visits; however, Somprasong (2539: 30) later documented several of the pieces, raising the possibility that they were discovered since the late 1960s. During a visit to Wat Kamphaeng Saen in 2010, we examined two stucco human faces [Figures 11-12] that closely resemble the many stucco faces from Buddhist monuments at other Dvāravatī settlements in western Thailand (e.g. Thung Setthi, Nakhon Pathom, Khu Bua and U Thong). These faces share distinctive features including connected eyebrows, thick lips and a large nose. Somprasong (2539: 30) reported additional stucco objects from Kamphaeng Saen, including a third face with similar features to the two we saw, a hand fragment, the hind leg of a lion and a scroll-like architectural ornament; unfortunately, these pieces could not be located at the time of our visit. Additionally, the U Thong National Museum has a typical Dvāravatī-style lion made of stucco whose provenance is listed as Kamphaeng Saen.<sup>13</sup>

We also examined two terracotta sculptural fragments in the Wat Kamphaeng Saen collection. The first was the upper torso and Figure 10

Figures 6a-b: A complete example (top) and width cross-section (bottom) of Dvāravatī-style bricks found in a field east of the settlement enclosure. Note the incompletely-oxidised core and rice grain and husk temper in the cross-section /Photographs by Matthew D. Gallon].

Figure 7: Fragment of a terracotta finial, found in a field east of the settlement enclosure [Photograph by Matthew D. Gallon].

Figure 8: Leg from a clay vessel stand, found in a field east of the settlement enclosure /Photograph by Matthew D. Gallon].

Figure 9: Terracotta deer head fragment, found in a field east of the settlement enclosure Photograph by Matthew D. Gallon].

Figure 10: Fragmented bronze lotus base with feet, found in a field east of the settlement enclosure [Photograph] by Matthew D. Gallon].

Left Figure 13: Terracotta hands,

Saen. Now in Wat Kamphaeng Saen

[Photograph by Matthew D. Gallon].

reportedly found at Kamphaeng

Left Figure 11: Stucco face, reportedly found at Kamphaeng Saen. Currently located in Wat Kamphaeng Saen [Photograph by Matthew D. Gallon].



Right Figure 12: Stucco face, reportedly found at Kamphaeng Saen. Currently located in Wat Kamphaeng Saen [Photograph by Matthew D. Gallon].

arms of a figure in the *añjali* gesture, signifying homage or worship **[Figure 13]**. The figure has what appear to be armbands around both upper biceps and bracelets around both wrists. In Dvāravatī art, these types of ornaments are generally worn by individuals such as Bodhisattvas, Brahmanical or Hindu deities, celestial beings, or the laity, who are in some examples shown worshipping or assisting the Buddha almost always depicted without ornaments (Somsak 2535: figs 25, 26, 71; FAD 2552: figs 7, 40, cats 24, 25, 36, 37). The second terracotta fragment we examined was not documented by Somprasong (2539), and depicts two adjacent heads **[Figure 14]**. The hairstyle of the figure on the left resembles that of the female musicians and the noble woman and her attendant depicted in the stucco panels recovered from  $st\bar{u}pa$  no. 10 at Khu Bua (Somsak 2535: figs 71, 72).

# The Buddhist Landscape at Kamphaeng Saen and Beyond

When we examine the landscape of Kamphaeng Saen, including both areas inside and outside the settlement enclosure, there is a striking division of space between the habitation areas presumably in the settlement core and the surrounding Buddhist monuments and sculpture on its periphery. Even though our investigations could not provide absolute dates for any of the religious monuments outside the enclosure, the east group clearly dates to the Dvāravatī period based on the style of the bricks, sculpture and ceramics found there. The north stūpa is also likely from this same period based on its square base and style of bricks. While we could not inspect the south group, the apparent similarity between the configuration of the south and east group of monuments in Somprasong's report (2539) suggest they may be roughly contemporaneous. The age of the west monument group is the least certain, although the bricks on the surface of the monument shown in Somprasong's photo (2539: fig. 26) appear to have similar dimensions as the typical oversized bricks from other Dvāravatī period monuments.

In addition to the spatial divisions, there is an interesting chronological difference between the interior occupation area and the Buddhist sculpture from the exterior religious areas. The absolute dates obtained in our test excavations of Dvāravatī contexts inside the



Right Figure 14: Terracotta double head, reportedly found at Kamphaeng Saen. Now in Wat Kamphaeng Saen [Photograph by Matthew D. Gallon].

enclosure indicated the most intensive occupation of the site was from the fifth or sixth century CE to the seventh century CE. After this time, occupation at the site dramatically diminished until its abandonment *circa* the ninth century CE.<sup>14</sup> The dates of the construction of the brick religious monuments are unknown, but relative dates for the dharmacakra (late seventh to eighth century CE), the socle inscription (eighth century CE) and the three laterite Buddhas (eighth to ninth century CE), all correspond to when the site was in decline. If these dates are accurate, they suggest investment and activity at the site by the Buddhist community after the town's population began to decrease. Since Buddhist monastic communities primarily relied on donations from the laity for the resources required to support themselves and the construction of monuments, it is possible that the investment in the Buddhist sculpture during Kamphaeng Saen's nadir was actually funded by sources from outside the community, such as individuals located in the nearby thriving centre of Nakhon Pathom.

Direct evidence for the presence of a Buddhist monastic community at Kamphaeng Saen is limited. As Murphy (2010b) observed, sema stones are useful indicators of consecrated spaces specifically used for monastic rituals (e.g. ordinations) and are therefore suggestive of where monastic compounds were likely located. Unfortunately, during the Dvāravatī period such boundary stones are primarily found in northeast Thailand, suggesting the monastic communities of central Thailand may have established consecrated spaces in other ways, such as wooden semas which have not survived in the archaeological record.<sup>15</sup> This makes it difficult to identify the actual spaces where Buddhist monks lived and practised in central Thailand. Buddhist monks may have been present during the consecration of stupas, but the efficacy of these monuments did not require their constant presence. At Kamphaeng Saen, the brick monuments appear to have been either reliquary or memorial stupas. although their advanced state of ruin makes it difficult to conclusively identify them. The recovery of Dvāravatī-style earthenware sherds in the vicinity of the east monument group suggests some individuals, possibly monks, were consuming, cooking or storing food in this area. While this is far from conclusive evidence of a monastic compound at Kamphaeng Saen, the location of most, if not all, of the monuments at Kamphaeng Saen outside the enclosure on the settlement's periphery

suggests a clear preference for building Buddhist structures in these locations by the monks and the community who supported them. Two possible factors influencing this configuration, examined below, include the monastic ideals of renouncing the laymen's life and the construction of a spiritually protective boundary.

Early Buddhist monastic communities had to find ways to reconcile the contradiction of withdrawing from society while still relying on the laity for patronage and new monks to fill their ranks (Bailey & Mabbett 2003: 1-38). Textual and archaeological evidence of early historic Buddhist communities in India suggest that one spatial solution they pursued was to build monasteries on the outskirts of settlements (Fogelin 2004: 318-326 and 2006). From circa 200 BCE-300 CE, Buddhist monasteries in India were commonly built in locations along important trade routes and outside urban centres (Heitzman 1984; Ray 1986; Morrison 1995: 214-217; Fogelin 2004: 318-326 and 2006). Many of the ports on India's east and west coasts had monasteries overlooking them (Ray 1994: 136-143). These locations along trade routes or near key centres of trade, but outside habitation areas, allowed the monks to strike a balance between renouncing domestic life in a town or city, while remaining within close proximity to urban populations to provide them with ritual and educational services and ensure their continued patronage. In particular, donations from the growing merchant guilds provided an important source of income, and the monasteries in turn acquired goods from these donors (Ray 1986). This mutually beneficial relationship had the added benefit of allowing both parties to expand their influence and authority outside of the traditional Brahmin-based political structure.

The spatial patterns of Dvāravatī period Buddhist monuments in central Thailand suggest that the early monastic communities in these areas also maintained symbiotic relationships with the residents of urban centres. Most studies of Dvāravatī religious sculpture and monuments have focused on identifying foreign influences and chronological relationships through stylistic and iconographic analyses rather than examining the significance of their spatial distribution within settlements (e.g. Cædès 1928; Dupont 1959; Brown 1996; Woodward 1997: 43-73; Piriya 2012: 45-95). Several scholars (e.g. Ouaritch Wales 1969; figs 2, 3, 5, 7, 10; Higham 2002; 256; Phasook 2004: 138) have noted in passing that religious monuments were located both inside and outside of settlement enclosures at protohistoric walled and moated sites, but few have elaborated on the significance of this distribution. Piriya Krairiksh (1975) and later Nicolas Revire (2010) have considered the significance of monuments outside the enclosure within the site-specific context of Nakhon Pathom. Piriva (1975: 173) suggested that the exterior monuments were later, and resulted from the community's expansion beyond the enclosure after the seventh century CE; Revire (2010: 81-82) entertained the possibility of a more functional explanation, in which the exterior monuments were part of a monastic complex that provided a more isolated context for greater asceticism. In northeast Thailand, Stephen Murphy (forthcoming) examined the location of different types of Buddhist art and monuments in the regional landscape, and determined that the monastic communities were divided between larger groups associated with the riverine urban centres and smaller groups or even isolated individuals located at forest or cave retreats. Due to the urban monastic communities' access to surplus food and labour from the riverine urban centres, they were able to support both larger populations of monks and the construction of Buddhist monuments.

Murphy (forthcoming) also examined the spatial distribution of Buddhist monuments within the landscape of a selection of lowland urban centres. At Mueang Sema, Nakhon Ratchasima province, he noted that structures indicative of monastic compounds (e.g. *ubosols* or *vihāras*) were located both outside the site's enclosure as well as near the centre of the inner enclosure. The location of these latter monuments is significant, since it suggests that a monastery or at least monastic rituals were located at the centre of the community, unlike in South Asia. Mueang Fa Daet in Kalasin province, also contained an ubosot close to the centre of the site, as well as stupas both inside and outside the enclosure. The seven exterior *stūpas*, all roughly contemporaneous, ringed the exterior of the enclosure, which Murphy suggested may have been to establish a sacred field around the settlement. Interestingly, Uthara Suvrathan (2013: 89-91) identified a similar configuration of early historic stūpas around the town of Banavasi in Karnataka, southern India, a pattern seen at other ancient cities in India at that time. For Mueang Fa Daet and other Dvāravatī enclosed centres, Murphy (forthcoming) suggested that the construction of monuments outside of the enclosures signified a change in the way residents conceived of the boundaries of settlements, since unlike their Iron Age predecessors they now extended built space beyond the settlement enclosure.

In my own survey of Dvāravatī centres in central Thailand (Gallon 2013: 178-180, Appendix B), I found the majority of documented Buddhist monuments<sup>16</sup> are found in one of three locations: 1) approximately 1.5 to 3.5 kilometres outside the settlement: 2) within 500 metres of the outside of the moat; 3) inside the moated enclosures. There are monuments that are exceptions to this pattern, including some monuments up to 6.7 kilometres outside the enclosure (e.g. Nakhon Pathom's Noen Phra); however, these three groups are the most robust. There are far fewer monuments in the third category than the other two. At Kamphaeng Saen, the west monument group falls into the first category; the north, east and south monument groups fall into the second. The second category of Buddhist structures, located on the exterior of the settlement but still in close proximity to it, may have been built to serve the laity; whereas the more distant category may have been devoted to monastic-focused activities, while still within a day's walk of the settlement. Both of these locations reflect the monastic communities' need to reconcile the ideal of renouncing domestic life with the economic reality of dependence on patronage from the community. Additionally, by conducting their affairs in peripheral locations, monastic leaders would have been able to more easily accumulate political and economic influence independently of political elites, who could monitor and control them more closely if they were within the core of the settlement. The ability of the monastic community to operate outside the supervision of political elites suggests that political administrators and the monastic communities may have formed separate hierarchies of authority within the society. Even within this alleged heterarchical organisation, both groups were likely interdependent, as the monastic communities required patronage and

military defence, and the political elite needed the monks to perform ceremonies and receive merit-building donations.

In central Thailand, Dvāravatī Buddhist monuments built inside settlement enclosures may have played important roles in power negotiations between political elites and monastic communities. These included large monuments, which can be described as mahāstūpas or mahācaitvas (great stūpas or caitvas), located near the centre of sites such as Nakhon Pathom, Si Thep and Khu Bua (Phasook 2004: 138).<sup>17</sup> Such monuments were also built outside the settlement enclosures (e.g. Khao Khlang Nok at Si Thep), but it is the large Buddhist monuments located near the centre of Dvaravati centres that represent a significant adaptation of the mahāstūpa tradition. In early historic India and Sri Lanka, communities also built mahāstūpas, but located them on the periphery or several kilometres away from major urban centres. Compared to the intra-site distribution of monuments in South Asia, the placement of large Buddhist monuments at the centre of major Dvāravatī centres most closely resembles the location of Hindu temple complexes at the core of medieval towns in southern India (Champakalakshmi 1996; Heitzman 1997). The Hindu temple complexes in medieval southern India served as ritual, political and administrative centres, and were built and sustained through elite patronage. The construction of Dvaravatī so-called *mahāstūpas* at the centre of larger settlements in a publicly visible location suggests that they may have played important roles in political and monastic ceremonies intended for a broad audience. If Dvāravatī rulers incorporated concepts of Buddhist kingship, such as the *cakravartin*, into their court rituals, royal personae and governance, they may have modified traditional Buddhist spatial ideals of placing monuments outside habitation areas to pursue their own political and religious agendas. That such mahāstūpas are almost exclusively found at sites in the upper-tiers of the settlement hierarchy in central Thailand further reinforces their ties to administrative activities and political performance. If there actually was a *stūpa* at the centre of Kamphaeng Saen, as reported in Somprasong (2539: 32) but undetectable in our investigations, its reported size would be too small to have served as a mahāstūba.

In addition to Buddhist monuments built of bricks and laterite, Dvāravatī monumental construction projects also included the earthen walls and moats that enclosed many of the centres in central and northeast Thailand at that time. These earthworks provided a combination of military defence, water control and a source of aquatic resources; however, the residents of these centres may have also conceived of them as sacred structures if their plan held cosmological significance. The strongest evidence for this possibility comes through analogy with neighbouring Cambodia during the Angkorian period (ninth-fifteenth centuries CE) when the Khmer built moats around many of the settlements or temples in this area (Moore 1989: 208-121; Higham 2000: 355 and 2004: 344-346). Inscriptions associated with Angkorian period sites suggest that in addition to their defensive and irrigation functions, the Khmer moats also defined a cosmological landscape based on Hindu conceptions of the universe (Cœdès 1963; Wheatley 1971: 295-296; Moore 1989: 208-212; Higham 2000). The Dvāravatī site enclosures, and their Iron Age predecessors, may have similarly created a spiritually protected or empowered space.

possibly for the spiritual protection of the settlement. The configuration of brick monuments, likely stūpas, in the four cardinal directions around Kamphaeng Saen may have served a similar purpose. Our field work revealed that the construction of the earthwork enclosure around Kamphaeng Saen occurred during its initial occupation. It is still unclear when the alleged brick stūpas or caityas were built, but the Buddhist sculptures appear to date to the end of the site's occupation, circa eighth to ninth century CE. It is possible that along with the sculpture, the Buddhist monuments were added later to either reinforce or replace the sacred protection provided by the initial earthwork enclosure. Other enclosed Dvāravatī centres in west-central Thailand, such as Nakhon Pathom, U Thong and Khu Bua, also have Buddhist monuments ringing their enclosures, although not always in the four cardinal directions as at Kamphaeng Saen. These patterns may represent a "translation" of cosmological concepts about the power of earthwork enclosures into the configuration of Buddhist monuments within the landscape; however, a more refined chronology for both the construction of Dvāravatī earthworks and brick or laterite monuments in central Thailand is needed to more fully evaluate this hypothesis. Conclusion Earthwork enclosures and religious monuments, both during their construction and as a lasting physical presence in the urban landscape,

would have been well-suited to uniting various groups within newly formed or growing Dyārayatī centres. The residents of these communities inevitably included migrants from multiple villages and, therefore, required new social bonds and group identities to supplement and transcend their more exclusive kinship-ties based on former village residence. The construction of monuments required labourers, planners and sponsors to invest time and resources on a public project rather than activities that benefitted their individual households. For this reason, Monica Smith (2003: 282) has described some monumental construction projects, such as city walls, as an "architecture of consensus," because they encouraged cooperation and reinforced a shared civic identity among diverse social groups within an urban centre. While Dvāravatī public monuments may have served as important civic symbols in this way, their success in fostering intra-community bonds did not require that all members of the community view them in the same way.

The Buddhist monuments around Dvāravatī settlements may have

also established a protective sacred space. Due to the relics they contain,

stūbas are considered to emit a sacred energy. As noted above, Murphy

(forthcoming) suggested that the enclosed settlement of Mueang

Fa Daet in northeast Thailand was surrounded by seven stūpas.

We know little about who actually participated in Dvāravatī monument construction, and differences in gender and class may have dictated who was required, or allowed, to work on monuments, leading to different perceptions and experiences of this process among community members. Historically, both slavery and corvée labour have existed in the region (Beemer 2009), and probably played an important role in Dvāravatī period monument construction (Gallon 2013: 323-325). The difference between those who laboured in monument construction and those who did not, therefore, may have marked and reinforced new types of social groups within the community. Monument construction was undoubtedly gruelling work, and the shared experience of such hardship may have strengthened bonds among those who laboured. Such work-groups may have initially been based on kinship, ethnicity or former village residence, but over time labourers' shared experiences may have provided the basis for new, more widely shared, identities that cross-cut kinship. The lack of participation in monument construction, due to privileged status, gender, limited physical ability, or other social differences, may have also served to highlight and strengthen new social groups within the community. The varying experiences of monument construction could therefore play an important role in bringing different groups of residents together in newly created or expanding Dvāravatī centres.

Monument construction also enabled Dvāravatī period political and religious leaders to materialise the labour and resources they had amassed in a relatively permanent and publically visible medium (Baines & Yoffee 2000; Stark 2006: 420-421). The ability to successfully coordinate work on such monuments demonstrated the wealth and authority at the command of these elites. The construction of religious monuments, with elite planning and sponsorship and non-elite labour, also put in to practice the social order and stratification legitimised by elements within Hindu and Buddhist ideologies. Additionally, monastic groups may have used the construction of Buddhist monuments to demonstrate their autonomy and political power within a heterarchical or contested system of authority. By situating Buddhist monuments and monasteries on the periphery of urban centres, monastic orders may have demonstrated their relative independence; whereas those monuments built within the settlement, and particularly the large *mahāstūpas*, may represent the monastic community's participation in more religio-political activities, such as the legitimisation of a monarch. In both cases, monument construction would have played an active role in the negotiation of authority between political and religious leaders, as well as an important source of identity for the community members who contributed resources and labour.

In addition to supporting the development of new social groups within the community during their construction, earthwork enclosures and religious monuments also helped to create shared worldviews among the residents by constraining, or "normalising," their movements and perceptions of the landscape (Bradley 1998: 108; A. Smith 2003: 67-77). The fact that many Dvāravatī enclosed centres had similar spatial configurations of monuments indicates that not only did their leaders share concepts of how to define and empower a sacred landscape through the placement of monuments, but also their residents subsequently experienced similar patterns of religious practice and daily movement. These similarities enabled an individual to potentially relocate from one centre to another and not only recognise and understand the organisation of the new settlement, but feel physically and spiritually secure once there. In a landscape where slave-raiding may have been fairly common, such security, or at least the illusion thereof, would have been highly valued. This security may have enabled, along with other factors, the population aggregation and urbanisation that took place during the Dvāravatī period. In the case of the decline of Kamphaeng Saen, if its residents moved or were forcibly resettled to Nakhon Pathom, they would have been familiar with some of the spatial logic behind the configuration of the monumental landscape in their new home due to the similarity in the configuration of monumental space at these two settlements, albeit on different scales. Participation in the construction of new monuments at Nakhon Pathom would have in turn helped them forge bonds with groups within the community, as well as begin to internalise the socio-political order of their new home.

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## Endnotes

- 1 The term "Dvāravatī" has been used to describe an art style, a chronological period, an archaeological culture and one or more polities; for discussion, see Skilling (2003: 104-106), and Gallon (2013: 79-117). According to a given author's use of the term, the time span and phenomena identified as "Dvāravatī" can vary considerably. The differences in the label's usage often follow disciplinary boundaries between archaeology, art history and history; yet, even within these disciplines there is a significant lack of consensus over what constitutes "Dvāravatī." As an archaeologist, I use the term to describe an archaeological culture defined by a suite of shared forms of material culture and practices. I consider the "Dvāravatī period" to be the roughly defined span of time when a significant number of the elements of this suite can be identified, *circa* fifth to eleventh centuries CE. The starting date for this range is one to two centuries earlier than archaeologists have traditionally given for the Dvāravatī culture (e.g. Ouaritch Wales 1969; Phasook 2004; Murphy, forthcoming), but accounts for the recent absolute dates (Barram & Glover 2003: Gallon 2013: 244-269. Table 5.5) from contexts with ceramics and other non-ritual objects in styles conventionally attributed to the "Dvāravatī culture."
- 2 Mudar (1999) identified several moated settlements in west-central Thailand that are smaller than Kamphaeng Saen, but they are not included in other lists of moated Dvāravatī sites (e.g. Phasook 2004), and it is unclear if they contain Dvāravatī period material.
- 3 After his two visits to the site in the 1960s, Quaritch Wales (1969: 49) noted the presence of a second wall, possibly lining the moat's exterior edge, but no traces of this wall remain today. In the 1930s, Dupont (1939: 364) noted only a single wall on the moat's interior edge.
- 4 When Dupont (1939: 364) examined the three sculptures they were all housed at Wat Kamphaeng Saen. Since that time, the set of sculptures has been divided; one image remains at Wat Kamphaeng Saen, a second image has been moved to another local monastery (Wat Sawang Chat Pracha Bamrung), and the third image was reportedly taken by the FAD. The two sculptures that remain at the local monasteries have been covered with gold leaf as a result of continued veneration, making it difficult to assess their features or construction.
- 5 Chira & Woodward (2509: cat. 22) transliterated and translated the inscription as: *saceakiccakatañānam catudhā catudhā katam tivattam dvādasākāram dhammacakkam mahesino*; i.e. "the knowledge of each of the Four Noble Truths, the knowledge of the obligation entailed by each, and the knowledge that these obligations have been fulfilled, making three revolutions for a total of twelve aspects of

knowledge, are the foundation of the Buddha's *dhammacakka* (wisdom)."

- 6 Cœdès's chronological assessment of the script is mentioned by Quaritch Wales (1969: 50), but it is unclear if this was based on their personal communication or Cœdès's work on similar inscriptions. According to Brown (1996: 108) the inscription on the socle from Kamphaeng Saen is the same as the inscription on the inner hub of an early *dharmacakra* from Nakhon Pathom translated by Cœdès (1956: 225).
- 7 Buddhist structures built in first millennium CE Thailand included what have been identified as stūpas (religuary or commemorative mound-like structures), vihāras (assembly halls) and ubosots (halls for monastic ordinations or other prescribed rituals) (Murphy 2010b: 269-270 and forthcoming). Each of these structures has rough counterparts in early historic South Asia (Coningham 2001); however, in South Asia the term "vihāra" may refer to an entire monastery or a block of monastic cells and "ubosots" are largely restricted to Sri Lanka (Murphy, forthcoming). In Thailand, the terms "caitya" or "chedi" refer to commemorative stūpas that do not necessarily contain relics (Woodward 1993: 75-77), whereas in South Asia *caitva* is most often applied to a type of grha, or hall, containing an image or stūpa (Coningham 2001). It is difficult to differentiate between *stūpas* and *caityas* in the archaeological record in Thailand. Furthermore, it is unclear if the Dvāravatī monuments that have been identified as belonging to these two categories were considered to have completely separate functions, and it is possible that there was a functional continuum between the two types of structures. Dvāravatī monuments that are characterised as *stūpas* or *caityas* also include rectilinear mound-like structures that have flat tops, which likely served as the platform for a hall built of perishable materials (e.g. Wat Khlong at Khu Bua). The religious and political functions of these structures are unclear, and they may have served as an image or assembly hall, as well as a *stūpa*.
- 8 For details of the methodology and results of these investigations, see Gallon (2013).
- 9 We were unable to identify the mound of bricks Somprasong documented inside the eastern gate of the site. There were a few concentrations of Dvāravatī style-bricks around the arboretum office, but staff members told us that the bricks had recently been brought in from the area outside the site to the east for various uses. We also identified several mounds of bricks of indeterminate age roughly 140-150 metres northwest of the site centre; however, the mounds also had modern construction materials embedded in them, and if the bricks date to the Dvāravatī period they have clearly been heavily disturbed

and likely moved. Finally, there are more than three hundred earthen mounds, many roughly conical-shaped, scattered around the interior of the enclosure at Kamphaeng Saen. Auger coring of several of these features and excavation of one mound showed them to be completely void of archaeological material, and overlie the Dvāravatī period strata. So while they post-date the Dvāravatī occupation of the site, the origin of these features remains unclear.

- 10 The profile through the earthen wall contained no brick or stone construction materials or any artefacts. The absence of any refuse in the matrix of the wall suggests the moat was dug into sterile soil rather than pre-existing cultural deposits, and that the construction of the moat and wall therefore took place around the initial occupation of the site. Auger core tests in other sections of the wall also failed to identify any artefacts or stone or brick construction materials in the wall.
- 11 There are other depictions of a Buddhist figure standing atop a lotus (e.g. Piriya 2012: 79, 89, 90; figs 1.59, 1.60, 1.82); however, these images are often free standing and do not show a stem below the lotus blossom, as this is the base of the sculpture.
- 12 Monastery museums often serve as repositories for objects members of the community suspect to be old or spiritually empowered, regardless of their original provenance. Archaeological materials obtained on journeys outside the local area occasionally find their way into these collections, and for this reason the provenance of material in monastery collections must be treated with caution. In the case of the Wat Kamphaeng Saen sculptural fragments, the monastery curator, members of the local historical society and Somprasong (2539: 30) all claimed that the material was found at Kamphaeng Saen. Questions about the provenance of these objects, however, do arise since more stucco objects have not been reported from the site and there is no evidence of stucco fragments on the surface in the areas around the destroyed brick structures we surveyed.

13 Seen by the author on display in 2009.

- 14 The recovery of a single sherd of twelfth century imported Chinese stoneware from just below the surface inside the enclosure during KSAP auger coring, and Somprasong's report of the discovery of a Ayutthaya style Buddha, suggest that even after the ninth century CE, there was still occasional activity at the site. However, our test excavations found no evidence of significant full-time habitation at the site after this time. See Gallon (2013: 282-308) for additional discussion of causes behind the site's decline.
- 15 One of the rare examples of possible stone *semas* in central Thailand comes from Mueang Bon, where Quaritch Wales (1969: 79) noted eight pairs of small "roughly-shaped" *sema* stones found *in situ* adjacent to *stūpa* no. 4 on the hill outside the site's moated enclosure. It is notable that the stones were both small and lacked the often ornate carvings of the *sema* stones found in the Northeast. Unfortunately, Quaritch Wales did not publish any images of the stones.
- 16 There are a few monuments associated with smaller unmoated settlements (e.g. Thung Setthi and Phong Tuek in Phetchaburi and Kanchanaburi provinces respectively). A few relatively isolated cave sites with Dvāravatī period Buddhist carvings (e.g. Khao Ngu caves in Ratchaburi province and Khao Thamorat cave in Phetchabun province) are also known and may have served as the residences of ascetic monks.
- 17 It is notable that the large monuments located at the centre of these sites include the rectilinear mound structures with flat tops and single staircases (e.g.Wat Khlong at Khu Bua).
  As I noted above, while these monuments are often classified as *stūpas*, they may have served additional or alternative functions. The presence of a single stairway leading to an elevated platform would be well-suited to increasing the visibility and emphasising the privileged status of leaders who may have used these monuments in religio-political ceremonies; although the existence of such ceremonies is speculative.

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# Sema Stones in Lower Myanmar and Northeast Thailand: A Comparison

STEPHEN A. MURPHY

# Introduction

The narrative art depicted on various *sema* stones (Buddhist boundary markers) from northeast Thailand dating from the seventh to eleventh centuries CE and generally considered to be part of the Dvāravatī art style or culture<sup>1</sup> have long been admired for both the quality of their carvings and the skilful rendering of their subject matters.<sup>2</sup> The subjects consist primarily of *jātaka* tales and scenes from the life of the Buddha. Similarly, a group of *semas* from the Kalyāņī Sīmā in Thaton, lower Myanmar, also depict narrative scenes from *jātakas* and have therefore invited comparison from a number of scholars.

Piriya Krairiksh (1974: 63) in particular stresses this point, arguing that a group of Mons may have fled northeast Thailand as the Khmers began to take over their territories.<sup>3</sup> The natural place for them to seek refuge, he argues, was Thaton, being as it was, one of the main centres of "Mon Buddhism." Furthermore, he states that as there does not seem to be any "Burmese" forerunners to the Thaton *semas*, it is plausible that the Mons of northeast Thailand brought this tradition with them.

This hypothesis, however, has a number of problems. Upon close investigation of the *semas* from both northeast Thailand and Thaton, it becomes apparent that while the content of these narrative scenes are similar and at times identical, the style, composition and morphology of the *semas* from both locations differ considerably.

What follows is a comparison between the *sema* stones of lower Myanmar and northeast Thailand from the seventh to eleventh centuries. The origins and use of *semas* shall first be briefly discussed, followed by an overview of the earliest evidence for these objects in both Myanmar and Thailand. Excavations at Vesāli in Rakhine (Arakan) state in the west of Myanmar have led to the discovery of a number of *semas* from *circa* fifth to seventh centuries CE, while the so-called "Buddhist megaliths" (Luce 1985: 130-131, pls 12, 13, 15) at the site of Śrīkṣetra, while not clearly identifiable as *sema*, do appear to have fulfilled a somewhat similar function in defining ritual space and provide evidence for a well-established stone carving tradition.

The narrative art on the *semas* from northeast Thailand, in particular from the sites of Mueang Fa Daet and Ban Nong Chat,<sup>4</sup> shall then be compared with that from Thaton. In doing so, it will be shown that whilst there are many similarities in terms of function and narrative content, there are also various differences in terms of how the narrative art is depicted, the form of the *semas* themselves and certain stylistic renderings. Overall, it will be shown that the "Mon refugee" hypothesis is untenable. This raises a further question, that is, whether or not the *sema* tradition of northeast Thailand can be seen as a model or forerunner for those in lower Myanmar. The evidence discussed

**Opposite:** Detail of Figure 4 depicting an episode of the Mahosadhajātaka. Khon Kaen National Museum [Photograph by Stephen A. Murphy]. herein, however, indicates it is more probable that the *semas* at Thaton developed independently of those in northeast Thailand, drawing their inspiration from the already rich and well-established indigenous tradition of carving Buddhist imagery and motifs.

# Sema Stones: Origins and Use

The gradual and pervasive movement of Buddhism into Southeast Asia from the early centuries of the first millennium CE onwards brought with it a variety of new rituals, concepts, customs and artistic traditions. As a result, Buddhist ideas of sacred space and sacred art merged with the pre-existing local cultures that they encountered, resulting in unique expressions particular to these communities.

As Buddhism became established in these areas the need to perform certain prescribed rituals led to the development of specific artistic and religious traditions. Regulations concerning the demarcation of ritual space were paramount among these considerations and as a result the tradition of erecting *sema* stones emerged in northeast Thailand and lower Myanmar.

The importance of demarcating ritual space arose from the need to perform the *pāțimokkha* on *uposatha* days and ordination ceremonies. The *pāțimokkha* ceremony, which consists of the recitation of the rules of the order, is performed twice a month, on the full and new moon, and once a year at the end of the rainy season on the *pavāraņā* day. Furthermore, Pāli Buddhist praxis stipulates that it must take place within clearly marked consecrated ground (Horner 1962: 6-13, 137-146). However, this ritual ground need not consist of a building, such as an *ubosot/bot* or *sim/sīmā* (ordination hall), but can take place in the open air as long as the space has been clearly demarcated. It is for this specific function therefore, that *sema* stones were erected (Murphy 2010: 86-124; Arunsak 2010: 67-82).<sup>5</sup>

The Pāli word  $s\bar{i}m\bar{a}$  means boundary. As No Na Paknam (1981: 57) points out, the Thai term *sema* is therefore a vulgarisation of the Pāli word  $s\bar{i}m\bar{a}$ . In modern Thailand, *sema* stones are usually called *bai semas*, with *bai*, meaning leaf, generally referring to the shape of the predominant slab type *sema*, particularly from the Ayutthaya period onwards (ca fourteenth century to present).<sup>6</sup> In Myanmar, however, the word  $s\bar{i}m\bar{a}$  (pronounced as *thein*) refers to both a boundary and an ordination hall, as in the Kalyāņī Sīmā at Thaton for example (Luce 1969: 252-253).

The function of *sema* therefore, was to create this necessary boundary ( $s\bar{s}m\bar{a}$ ) within which key Buddhist ceremonies such as the *pāțimokkha* or ordination ceremony could take place.<sup>7</sup> As Petra Kieffer-Pülz points out, this is one of the conditions for the continued existence of the Sangha, as without a clearly defined  $s\bar{s}m\bar{a}$ , there would be no space to perform valid Buddhist rituals (1997: 141). In modern-day Thailand for example, a set of eight *semas* are placed around an *ubosot*, either singularly or in pairs (therefore amounting to sixteen *sema* stones in total).<sup>8</sup> Once this formal procedure has been correctly carried out, the area is then deemed sacred and the requisite ceremonies can take place within it.

In modern Myanmar, a similar consecration ceremony takes place. Nagasena Bhikkhu (forthcoming) has recently carried out an exhaustive account of  $s\bar{s}m\bar{a}$  literature in Myanmar language giving a number of accounts of this consecration ceremony in a modern context. Some of the earliest related epigraphic evidence in Myanmar comes from the Kalyānī inscriptions of King Dhammazedi, set up in Bago (Pegu) in *circa* 1477-78 CE. In these bilingual inscriptions (Mon and Pāli), the arrangement of the *semas* is outlined in the Mon portion of the text stating,

[...] having been marked (at) the corners (facing) the four quarters [four boundary stones were planted. When] these four middle stones [were planted,] it being an advantage to have eight boundary stones with a view to making other than four-sided figure [...]. (trans. Blagden 1928: 247)

Clearly therefore, by the fifteenth century the rituals, regulations and ceremonies concerning the demarcation of the  $s\bar{s}m\bar{a}$  precinct had been firmly formulated in lower Myanmar.<sup>9</sup>

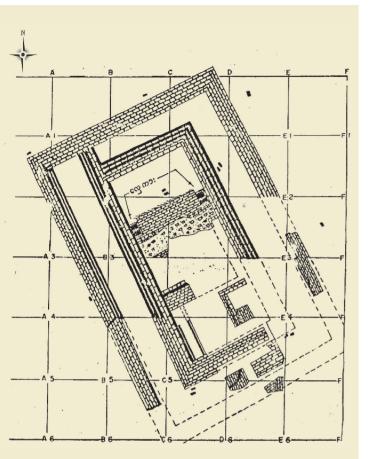
However, while the need to create ritual space is clearly defined in the Pāli texts, as Pinna Indorf (1994: 19) points out, nowhere in these texts does it state how this is to be done. The *Vinaya Mahāvagga* lists a number of possibilities, such as anthills, trees and rivers to define ritual space, however, they need to be clearly identifiable in order to suffice.<sup>10</sup> The evidence from northeast Thailand and central Laos illustrates that in these regions this need to fix Buddhist ritual space was met by the setting up of *sema* stones. Therefore, being found throughout Myanmar, Thailand, Cambodia and Laos, *semas* today seem to represent a specific Southeast Asian response to the creation of ritual space.<sup>11</sup> To the best of my knowledge no such practice has been recorded to date from India or Sri Lanka prior to *circa* tenth century CE.

# Early Evidence for Sema Stones in Myanmar

The earliest evidence for *semas* in Myanmar comes from a number of sites in the central and western regions, with none of them falling under the umbrella of the so-called "Mon" regions. In fact, one of the sites discussed, Śrīkṣetra, is in the Pyu region of Myanmar, while the other, Vesāli, is neither Mon nor Pyu.

Elizabeth Moore (2007: 129) has recently debunked these ethnic terms as over-simplistic concepts and argues that we should view pre-Bagan (Pagan) Myanmar more from a perspective of its landscape and human interaction with it, than in terms of reductive ethnocentric definitions. She further points out that during the first millennium CE, there was active interchange between upper and lower Myanmar, brought about more by ecological conditions than anything else. Michael Aung-Thwin (2005) has also cautioned against the blanket use of terms such as "Mon" and "Pyu," but for very different reasons, seeing them more as constructions of British colonialism. His critique, however, is problematic in parts, particularly in terms of his claims regarding the apparent lack of archaeological evidence in lower Myanmar, as has been outlined by Donald Stadtner (2008; see also Moore & San Win, this volume) who for his part, is a firm advocate of the Pyu and Mon paradigms.

A similar line to Moore's understanding is taken in this essay. From the archaeological record it seems clear that early Buddhism



did not distinguish between Pyu and Mon. As it moved into what is today modern Myanmar, it disseminated its doctrine and teachings among the various cultures and traditions that it encountered. Therefore, while the early evidence for Myanmar semas discussed below do not come from Mon areas, it is argued that the same religious and doctrinal forces were at play, and thus semas from Vesāli and the Buddhist stone carvings from Śriksetra may legitimately be considered as possible forerunners to those found in eleventh century Thaton, Furthermore, while they may not be the direct prototypes for the Thaton semas, they do illustrate that the tradition of stone carving and depicting Buddhist narrative art on large stone pillars/stele was in existence in this region of Myanmar from circa the sixth century onwards. In addition, Moore (2007: 129-225) has shown that communication between the areas of Vesāli, Śrīksetra and Kvaikkatha in lower Myanmar is clearly evident during the first millennium and it is not inconceivable that religious and artistic ideas moved freely between them.

The earliest evidence for the setting up of *semas* in Myanmar comes from the ancient city of Vesāli located in modern-day Rakhine state. This site

Figure 1: Ground plan of the excavated "thein" from the site of Vesāli in western Myanmar (Rakhine/Arakan state). The pillars identified as semas are located in grid squares A2, B4, C1, C2, D2, D6, E1, F3, F5 [Drawing courtesy of U.Nyunt Han]. lies in a coastal region of western Myanmar, close to the border with modern-day Bangladesh. The settlement itself lies about 10 kilometres north of Mrauk U.

Excavations at Vesāli between November 1983 and February 1984 led to the discovery of a brick building (mound no. 5), which was rectangular in shape and measured 22.5 x 15.2 metres.<sup>12</sup> Surrounding this building, the excavation team found thirteen fossilised wood pillars, set up in pairs and roughly equidistant, which stood at a height of about 60 cm above the ground [Figure 1]. This building was identified by the excavation team as a *thein*, or ordination hall, due to factors such as its ground plan and its location in relation to other buildings excavated during the course of their research. The thirteen fossilised pillars were therefore identified as *semas*, erected to mark out the  $s\bar{sma}$ precinct of this *thein*. The site itself was dated from between the fifth to ninth centuries CE.

In terms of the dating of this site, Moore (2007: 23) further points outs that while there are no radiocarbon dates available, there is an eighth century inscription of King Anandacandra at Vesāli recording eighteen previous rulers. This timeframe is also consistent with the evidence for *sema* stones from northeast Thailand.



Figure 2: Buddhist stele from Śriksetra (upper Myanmar) depicting the Buddha and two attendants. Height 107 cm., width 112 cm., depth 23 cm. Housed at the Thayekhittra Archaeological Museum [Photograph by Stephen A. Murphy].

The site of Śrīkṣetra is located in upper Myanmar, approximately 6 kilometres outside the modern town of Pyay (Prome). It is one of the most substantial early urban sites in Myanmar with its surrounding walls measuring approximately 14 kilometres in circumference (Moore 2007: 167-172).

The evidence at Śrīkṣetra in terms of possible forerunners for the Thaton *semas* comes in the form of the so-called Buddhist megaliths (Luce 1985: 130-131, pls 12, 13, 15c). These two sets faced each other each surrounded by a small brick wall. While these are not strictly themselves called *sema* stones, Stadtner for instance has suggested that they did function in a similar way as they too possibly demarcated an ordination hall (1998: 45). This usage, and the fact that these large stone objects do indicate the existence of a well-establish stone carving tradition of Buddhist imagery by this period, make them favourable objects of comparison with *sema* stones.

On a related point, Gordon Luce's term "Buddhist megalith" seems somewhat inappropriate. Firstly, megaliths in a Southeast Asian context usually refer to pre- or non-Buddhist religious practices that involved human burials of one sort or another. Secondly, the term megalith itself is problematic in regard to Southeast Asian archaeology as it has been used in a rather loose fashion and, in some cases, incorrectly.<sup>13</sup> In a Myanmar context, no in-depth research into megaliths has been carried out and what this culture may actually have consisted of is as yet uncertain. Instead, it is perhaps more appropriate to refer to these objects as monumental Buddhist art. This term emphasises that at times these stone sculptures can be extremely large in size while at the same time it avoids any confusion with implied burial or inhumation practices connoted by the term megalith.

Eight monumental Buddhist stones in particular emphasise the level and sophistication that Myanmar sculpture has reached by *circa* the sixth century. Six of them were discovered set up as triads at the Kyaukka Thein and at the time of their excavation were *in situ* (Beylié 1907). Another **[Figure 2]** probably comes from the Kyaukka *stūpa* 

while the last one **[Figure 3]** was found south of the Bawbawgyi *stūpa* (Luce 1985: 131). They have now all been relocated to the site museum. The stone triads, the largest of which measures 250 cm. in height, 201 cm. in width and 47 cm. in thickness is carved in relief with a Buddha image in *dhyānamudrā* **[Figure 2]**. The Buddha in turn, is flanked by two disciples seated in prayer with all three figures depicted with circular halos radiating from around their heads. Unfortunately, the relief carving on the majority of these stones is quite badly worn, however, **Figures 2 and 3** are still quite well preserved. **Figure 2** exhibits some fine relief carving showing the Buddha in *dhyānamudrā*, sitting cross-legged with a flaming halo radiating from behind his head. Behind the Buddha's shoulders is a throne motif which appears to terminate in *makara* designs. Furthermore, a *bodhi*-tree is represented by a stone projecting above the Buddha.

The second stone **[Figure 3]** again shows the Buddha seated crosslegged, this time in *vajrāsana*, with a halo encircling his head. Once again he is in *dhyānamudrā* and is seated on a throne. The whole composition is framed under an arch-shaped leafed pediment.

The dimensions and aesthetic quality of these two pieces as well as the stone triads indicate that sophisticated levels of Buddhist art had been reached by this period and provides evidence for the existence of a stone carving tradition employing Buddhist motifs and themes from as early as the sixth to seventh centuries CE. Furthermore, the use of the halo device around the head of the Buddha image on the majority of the triads from Śrīkṣetra is encountered once again on the Thaton *semas* from the Kalyāņī Sīmā and may represent some form of iconographic continuity between the two sites.

The 1983-84 Vesāli excavations seems to establish that the practice of erecting fossilised wood *semas* around ordination halls was already in existence in Myanmar from possibly as early as the fifth to sixth century CE. The lacuna of material evidence for other areas of Myanmar does not necessarily indicate that *semas* were not being used. It could be the case that they were also made from perishable materials such as wood which would therefore not survive. Furthermore, evidence from Śrīkṣetra illustrates that by the sixth to seventh centuries CE a tradition of setting up large stone slabs with Buddhist relief carving upon them and used to demarcate an ordination hall was well established in this region. It seems quite plausible therefore, that the *semas* from the Kalyāņī Sīmā at Thaton may have found their antecedents in at least one, or both of these sites.

## Early Evidence from Northeast Thailand

When we come to northeast Thailand, the evidence for *semas* is much more abundant. Surveys of *semas* from this region have been carried out by the Fine Arts Department of Thailand (FAD 2502), Srisakra Vallibhotama (2518) and myself (Murphy 2010). I have, for instance, recorded 111 sites and over 1,200 *sema* stones throughout northeast Thailand and central and southern Laos (2010: 125, 202-204, 398-439 and 2013).

Clear evidence for the use of *semas* in northeast Thailand from the seventh to eighth centuries CE is illustrated by a circular stone, now in the Khon Kaen National Museum, found at Wat Si That, in Kumphawapi district of Udon Thani province. This *sema* was discovered in 1963-64 during the Archaeological Salvage Expedition led by William G. Solheim II and Chester Gorman (1966: 159). It bears a fragmentary Sanskrit inscription in Pallava script (K. 981) edited and translated by George Cœdès, who dated it to approximately the seventh or early eighth century CE (1964: 159-160):

(1)	[] māyo śilām imām asau saimīm	yatir vviprādipūjitah sthāpayām āsa bhiksubhih
(2)	[] ne daśame caitraśukle bhūt	śucisamvatsare śake sīmeyam sanghasammatā

The inscription provides indisputable evidence for the function of this stone with Cœdès' French translation of the first line reading, "[...] cet ascète honoré par les brahmanes a érigé cette pierre tenant l'office de borne, avec les *bhikşu*." This has been translated into English by Piriya Krairiksh (1974: 41) as follows, "[...] this ascetic honoured by the Brahmans erected this stone having the function of boundary stone with the *Bhikkhus* [*sic*]"

However, Peter Skilling (pers. comm.) has recently presented me with a revised reading of this inscription that seems to downplay the Brahmins' role somewhat:

- (1) [Name or epithet] the renuncient venerated by Brahmins and others caused, this stone in the form of a boundary by the monks to be established.
- (2) [Year in words] the tenth day of the bright half of Caitra, this boundary was agreed by the Sangha.

As Piriya (1974: 42) states, this inscription leaves no doubt as to the function of *semas*. Furthermore, on Cœdès' reading, it appears that the ritual was conducted by Brahmins, however, in Skilling's it looks as if Brahmins were present but perhaps did not in fact conduct the consecration. Either way it serves to remind us that the cultural and religious milieu of Southeast Asia at this period was in no way homogenous, nor for that matter did it seem to be in any way sectarian, with Brahmanism, and Buddhism of various schools, all coexisting to a greater or lesser extent alongside each other at various times and in various regions.

# A Comparison of the Narrative Art

When we come to the eighth to eleventh centuries, we are on much firmer ground. In lower Myanmar, the *semas* from the Kalyāṇī Sīmā at Thaton are finely carved with Buddhist narrative scenes of *jātaka* tales. Equally, from the eighth century onwards in Thailand, Buddhist narrative scenes also of *jātakas* begin to appear on *semas* throughout the region, particularly from the site of Mueang Fa Daet (Murphy 2010: 189-192 and 2013). What follows is a comparison and discussion of the aforementioned *semas* from the two regions.

The first mention in the academic literature of "Dvāravatī period" *sema* stones from northeast Thailand was by Major Erik Seidenfaden



Figure 3: Buddhist stele from Srīksetra (upper Myanmar) with a Pyu inscription, showing the Buddha flanked by two attendants. Height 99 cm., width 46 cm., depth 10 cm. Housed at the Thayekhittra Archaeological Museum [Photograph courtesy of Donald M. Stadtner].

The Mahāummagga-/Mahosadhajātaka

The Mahāummaggajātaka, or Mahosadhajātaka as it is more commonly known in the Pāli literature, espouses the virtue of wisdom and is well represented in the narrative art of both Myanmar and Thailand from ancient times up to the present. In terms of sema stones it is depicted on one sema from Thaton and three semas from Mueang Fa Daet.

The *semas* from Mueang Fa Daet show a variety of different episodes from the Mahosadhajātaka. Of particular interest is a sema [Figure 4] carved with episodes on both sides, one side showing the scene in which the Bodhisattva Mahosadha decides the case of the stolen child, while the other side shows the "Battle of the Law" episode.<sup>15</sup>

In the judgement of the stolen child episode, Mahosadha is located at the centre of the composition while the two women to be judged kneel prostrate at his feet. The woman to Mahosadha's right is holding the child. There is also an architectural feature above Mahosadha, which acts to frame the composition. The "Battle of the Law" scene is depicted on the reverse of this sema. Once again, the composition is framed by a stylised architectural feature, under which sit four figures, three of whom are attendants. There is also another figure lying underneath, which Mahosadha, located on the far left and identifiable by the parasol above his head, is holding down with his hand and foot. This figure is the Brahmin Kevatta who is forced into obeisance by Mahosadha.

Overall, these two episodes illustrate that the ancient artists of Mueang Fa Daet were extremely well versed in this jātaka and succeeded in conveying its narrative by clearly constructed and conceptualised compositions. Also characteristic of the narrative art of the Mueang Fa Daet semas are the conical headdresses and "Dvāravatī style" facial features, particularly in terms of the eyes and lips. Furthermore, the narrative compositions are at times framed by stylised architectural motifs [Figure 13].

Figure 5: Sema from the Kalvānī Sīmā in Thaton (lower Myanmar; still in situ) depicting the scene from the Mahosadhajātaka in which Mahosadha's wife is presenting the four nobles dressed up like white

in 1954 in the Bulletin de l'École française d'Extrême-Orient. In this work, based upon reports he received from a Thai civil servant living in the area, he discussed the site of Mueang Fa Daet, which he referred to as "Kanok Nakhon." On observing photographs of sema stones present at this site, he concluded that they were Mon in origin stating that they were "the handiwork of Mon artists wearing the distinct impression of the Dvāravatī School of Art" (Seidenfaden 1954: 643). To confirm his identification he consulted Cœdès, who replied in a personal communication that he agreed with Seidenfaden.

This identification was further strengthened a few years later when M.C. Subhadradis Diskul wrote an article on the semas of Mueang Fa Daet published in Artibus Asiae (1956). It is clear that from early on Mueang Fa Daet was identified and recognised as an important Dvāravatī period archaeological site.

In 1968, the Fine Arts Department of Thailand (FAD 2514) conducted excavations at this site and among the structures that they uncovered were found the remains of two ubosots. Around one of these structures (site no. 14), they found in situ pillar-type semas erected in pairs, while at the other ubosot (site no. 4), sema stones were also found but no mention is given of what type they were. The director of the excavation also stated that there were approximately two hundred sema stones at the site of Mueang Fa Daet.

During the course of my research, I recorded 172 semas from this site (Murphy 2010: 189-191). Of this number, fifty-five had jātaka tales or scenes from the life of the Buddha depicted on them. The rest had Buddhist symbols such as *stūpas* and water-pots (kumbha), or were just decorated with a lotus band on their base.

The jātaka tales on sema stones, particularly from Mueang Fa Daet and also the site of Ban Nong Hang, were first identified by Piriva Krairiksh (1974) in his study of the semas at the Khon Kaen National Museum. Piriya succeeded in identifying five out of the ten Mahānipātajātakas on the semas. He identifies one instance of the Mahājanakajātaka, two instances of the Mahāummagga/Mahosadhajātaka, one instance of the Khandahālajātaka, two instances of the Vidhurapanditajātaka and one instance of the Vessantarajātaka.

The Kalvānī Sīmā in Thaton cannot compete with either the site of Mueang Fa Daet or other sites throughout northeast Thailand in terms of the quantity of semas present, however, in terms of the narrative art depicted on them and the motifs present, it compares very favourably. As at Mueang Fa Daet and other sites throughout northeast Thailand, the most common Buddhist narrative scenes are those from the *jātakas*, in particular the Mahānipātajātakas, that is, the last ten past lives of the Buddha.

The *jātakas* from Thaton were first illustrated and identified by Maung Mya (1934: 203-204, pl. 1 CXVI) who, on the basis of an inscription on one of the stones at the Kalyānī Sīmā, dated them from Figure 4: Sema from Mueang Fa the twelfth to thirteenth centuries. Both Luce (1969), and Shorto (1971: xxxviii), however, date the inscription to pre-1057 CE, that is, before the conquest of Aniruddha recorded in later Burmese chronicles. What follows is a comparison of four *jātaka* tales that the *semas* from Thaton, Mahosadhajātaka. Height 170 cm., width 84 cm. depth 24 cm. Housed lower Myanmar, and from northeast Thailand have in common.<sup>14</sup>

# monkeys to the king Photograph by Stephen A. Murphy]. sema from Mueang Fa Daet and the terracotta plaques are identical. The sema from Thaton on the other hand, depicts the episode in

which Mahosadha's wife is presenting the four nobles dressed up like white monkeys to the king while her husband is absent [Figure 5]. The depiction of the four nobles dressed up like monkeys allows for the scene to be clearly identified.<sup>16</sup> Skilfully rendered in low-relief, with the characters clearly shown, this scene, as with the Mueang Fa Daet sema, competently conveys the narrative episode.

When we look closely at the style of the carving and the arrangement of the composition itself, however, there is little to suggest a direct link with the sema from northeast Thailand. For instance, the architectural feature present on the sema from Thaton, a stylised-tiered tower of some kind, bears no resemblance to the architectural features on the sema from Mueang Fa Daet, nor does it have any parallel with other architectural motifs from semas throughout northeast Thailand. There is also no obvious "Dvāravatī stylistic influence" and furthermore, the Bodhisattva is depicted with a halo, a device that is rarely shown on

Interestingly, the placement of these two scenes on either side of the same sema may not be accidental. As Piriya (1974: 49-50) has pointed out, these two scenes appear side-by-side on terracotta plaques at the Thagya hpaya/stūpa at Thaton. It is worth noting, therefore, that while they are stylistically rather different, in terms of content, the Mahosadha



Daet (Kalasin province, northeast

Thailand) depicting the episode of

the "Battle of the Law" from the

at the Khon Kaen National Museum,

by Stephen A. Murphy7.

inv. no. 466, 467/2517 [Photograph

Bodhisattvas in *semas* from northeast Thailand, though it does appear on Buddha images.

Overall, therefore, while there are direct comparisons in terms of narrative content, particularly between the terracotta plaques of the Thagya hpaya/*stūpa* and the Mahosadha *sema* from Mueang Fa Daet, stylistically there are many divergences between the stones from these two regions.

## The Mahājanakajātaka



Figures 6a-b: Detail of a sema from the Kalyānī Sīmā in Thaton (lower Myanmar; still in situ) depicting the Mahājanakajātaka. Top: Mahājanaka holds on to the mast of the ship. Bottom: The goddess Manīmekhalā saves Mahājanaka from the ocean [photographs by Stephen A. Murphy].

Scenes from the Mahājanakajātaka have been identified on semas from three separate locations, Thaton [Figures 6a-b], Ban Nong Hang in Kalasin province [Figure 7] and Ban Non Chat [Figures 8 a-b] in Khon Kaen province.<sup>17</sup> The semas from Ban Non Chat and Thaton appear to depict the same scene. The sema from Ban Nong Hang has been identified by Piriya as the Mahājanakajātaka (1974: 47-48) although I have previously questioned this identification (2010: 225-227). The sema is fragmentary but Piriya proposes that it depicts the Bodhisattva Mahājanaka and his estranged wife, Queen Sīvalī. He further argues that it represents the scene after Mahājanaka has renounced his kingship and become an ascetic (cf. Cowell 1957: VI, 30-37). Mahājanaka, Piriva argues, is depicted at the bottom centre of the composition in an ascetic's garb, holding an ascetic's staff, while Queen Sīvalī is placed above him. She is shown leaning on her right shoulder, with her right hand raised to support herself. If this identification is correct, this posture may have been chosen to convey her grief and sorrow at the fact that Mahājanaka has resolved to remain an ascetic and, consequently, she can no longer accompany him. Overall, the compositional arrangement is uncrowded and as far as can be made out from the fragment, there are no further motifs or features present in this scene. The viewer's attention is therefore solely focused on the interaction between the two figures.

This identification, while compelling is far from certain. First of all, the identification of the bottom figure as Mahājanaka seems to rest solely on the staff he carries, which Piriya argues is that of an ascetic. However, it has been pointed out by a number of authors that it represents a khakkhara (Lorrillard 2008: 123-124; Revire 2009: 120-123) and that this instrument is not restricted to ascetics alone but to monks of various different monastic lineages. Furthermore, the khakkhara is also depicted on a further sema (No Na Paknam 1981: front cover; Murphy 2010: 272, fig. 5.74), and in this scene it is held by the Buddha. Additionally, the figure Piriva argues is Mahājanaka has his hair cut short in the style of a monk as opposed to the conical hairstyle of a Bodhisattva. As he does not have an usnīsa, he cannot be said to represent the Buddha either. The identification of the upper figure as a queen is also far from certain. It is more probable that this scene represents an unidentified episode involving a monk as opposed to the Mahājanakajātaka. Due to the uncertainty surrounding the actual narrative being shown, it is therefore omitted from consideration in the discussion below.

The *sema* from Ban Non Chat **[Figures 8 a-b]** depicts the episode of the shipwreck, identifiable by the large fish in the bottom right corner, and also by the mast of the ship, shown just to the left of the central *stūpa* motif. Two figures are clinging to this mast as the ship begins to sink, with the lower of the two possibly being Mahājanaka on account

of his conical headdress. There is also another figure placed above the large fish to the top right, however, it is unidentifiable as the top part of this *sema* is missing. It is also possible that this figure may represent Mahājanaka due to his placement in the composition, as in this episode Mahājanaka climbs to the top of the mast as the ship begins to sink, while his shipmates, unable to do so are eaten alive by various types of sea creatures as they swim helplessly in the sea.

The *sema* from Thaton depicts the exact same episode, however, it does so using a very different compositional arrangement. Firstly, the narrative is conflated, as there are two episodes being depicted in the one composition. On the top register the shipwreck scene is shown with Mahājanaka standing in the centre of the ship beside the mast. However, below the ship, the next episode in this narrative is shown. Mahājanaka, after surviving the shipwreck and swimming in the ocean for seven days, is eventually saved by the goddess Maņīmekhalā, who is shown lifting him out of the water and bearing him away.

When we compare the Mahājanaka episode on the top register of the Thaton *sema* with its counterpart from Ban Non Chat, we again observe that while the content is identical, the compositional arrangement and style once more differ. Firstly, in terms of scale, we see that the artist of the Thaton *sema* has chosen to depict the episode from a more distanced standpoint, allowing the viewer to take in the entire scene, or in this case the two concurrent narrative episodes. The *sema* from Ban Non Chat, on the other hand, has chosen to represent the episode up close, clearly depicting the characters of the narrative but not the backdrop. In fact, the only suggestion of a ship is the narrow mast to which the figures cling. Furthermore, the conflation of the narrative as seen on the *sema* from Thaton is never encountered in northeast Thailand during the "Dvāravatī period."<sup>18</sup>

Once again, while the narrative content is very similar and at times identical, the style and arrangement of the compositions from northeast Thailand differ quite significantly from those at Thaton.



Figure 7: Fragmentary sema from Ban Nong Hang (Kalasin province, northeast Thailand) supposedly depicting the Mahājanakajātaka. Height 64 cm., width 60 cm., depth 11 cm. Housed at the Khon Kaen National Museum, inv. no. 504/2517 [Photograph by Stephen A. Murphy].

Figure 8a: Sema from Ban Non Chat (Khon Kaen province, northeast Thailand) depicting the shipwreck scene from the Mahājanakajātaka. Height 120 cm., width 70 cm., depth 20 cm. Housed at the village temple, Ban Non Chat, Khon Kaen province [Photograph by Stephen A. Murphy].





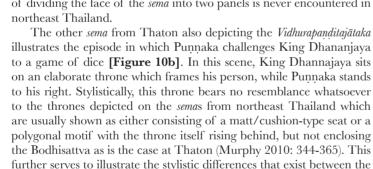
Figure 8b: Detail of the scma from Ban Non Chat depicting the sea monster [Photograph by Stephen A. Murphy].

## The Vidhurapanditajātaka

The Vidhurapanditajātaka is depicted on two semas from Thaton [Figures 10a-b] and one sema from Mueang Fa Daet. The latter sema [Figure 9] depicts the scene in which the yakkha general, Punnaka, is converted by the Bodhisattva Vidhura (Piriya 1974: 53-55; Murphy 2010: 237-243; Cowell 1957: VI, 131). This episode takes place on a mountaintop, represented here by the clouds in the background. After being dangled upside down and about to be thrown off the mountainside by Punnaka, Vidhura manages to persuade the yakkha general to let him preach the Law first. Punnaka agrees and upon hearing the wisdom of Vidhura, is converted and no longer seeks to kill the Bodhisattva. It is this moment of the preaching of the Law that is being depicted in this narrative scene. Vidhura sits in the top left of the scene while Punnaka sits slightly below him to the right. Punnaka is further identified by the depiction of his horse directly below him.

The *sema* stones from Thaton, on the other hand, show different episodes. One fragmentary *sema* depicts the episode in which the four kings meet **[Figure 10a]**. They are shown sitting around a table, engaged in conversation. It is highly probably, that this *sema*, like that depicting the *Vessantarajātaka* from Thaton discussed below **[Figure 11]**, was divided into two panels, each illustrating a different part of the narrative of the *jātaka* in question. Unfortunately, due to the fragmentary nature of this *sema*, it is impossible to know what this scene may have been. Once again, it is also worth noting that this compositional arrangement of dividing the face of the *sema* into two panels is never encountered in northeast Thailand.

Figure 9: Sema from Mueang Fa Daet (Kalasin province, northeast Thailand) depicting the episode from the Vidhurapanditajātaka where Vidhura preaches the Law to Punnaka. Height 176 cm., width 76 cm., depth 25 cm. Housed at Khon Kaen National Museum [Photograph by Stephen A. Murphy].



## The Vessantarajātaka

two regions.

The Vessantarajātaka is depicted on two semas from Thaton (Luce 1985: pl. 94c) [Figure 11], one sema from Mueang Fa Daet [Figure 12] and one sema currently located at Wat Sibunrueang in Kalasin province but most likely also from the site of Mueang Fa Daet (Piriya 1974: fig. 22) [Figure 13]. All four semas depict different scenes from this jātaka and once again the arrangement and the composition of the scenes from Thaton and northeast Thailand differ considerably.

The *sema* from Mueang Fa Daet depicts an episode preceding Vessantara's banishment from the palace. In this scene, the Bodhisattva Vessantara is seated on a throne below a parasol while his wife sits to his right, slightly below him in front of an architectural motif most likely meant to represent the palace. Vessantara's children are shown



**Figure 10a:** The episode from the Vidhurapaṇḍitajātaka when the four kings meet, from the Kalyāṇī Sīmā in Thaton (lower Myanmar; still in situ) [Photograph by Stephen A. Murphy].

Figure 10b: Sema from the Kalyāņī Sīmā in Thaton (lover Myanmar; still in situ) depicting the episode from the Vidhurapaṇḍitajātaka in vehich Puṇṇaka challenges Kīng Dhananjaya to a game of dice [Photograph by Stephen A. Murphy].



at the bottom of the scene, sleeping together on a mat. The fact that Vessantara is seated on a throne and the presence of the stylised architectural feature behind his wife confirm that they are still within the palace.

The *sema* from Wat Sibunrueang depicts the episode in which Vessantara gives away Maddī to Sakka, who is disguised as a Brahmin. Vessantara is shown in the centre of the scene with Sakka to his left and Maddī to his right. The donation of Maddī is symbolically depicted by the pouring of water onto the right hand of the recipient, who in this case is Sakka (Piriya 1974: 57 and 2012: 340-341; Cowell 1957: VI, 293).

The narrative takes place under a building of some kind, rather reminiscent of a modern Thai *sala*, or pavilion. This pavilion is in turn flanked by trees on either side above which float a pair of celestial beings. Overall, the architecture detail helps to create a well-balanced composition and as with the *Mahosadhajātaka* from Mueang Fa Daet, has the effect of framing the scene.

When we compare these two scenes with those found at Thaton, we once again see great differences in the style and execution of the narratives. One *sema* from Thaton, for instance, has been divided into two panels, the upper depicting the episode in which Vessantara gives away the white elephant to the eight Brahmins of Kālinga, while the lower panel has not been clearly identified (Luce 1985: pl. 94c).

Also depicted on a *sema* from Thaton is the scene in which the forester threatens to shoot Jūjaka with his bow after the latter has climbed up a tree after being chased by a pack of dogs [Figure 11]. If we compare the style and composition of this *sema* with the *sema* from Mueang Fa Daet, we observe that they differ in many ways, for instance in terms of the proportions of the figures and the style of their depiction. This points towards two different traditions separated by at



Figure 11: Sema from the Kalyāņī Sīmā in Thaton (lower Myanmar; still in situ) depicting the episode from the Vessantarajātaka in which the forester threatens to shoot Jūjaka [Photograph by Stephen A. Murphy].





Figure 12: Sema from Mueang Fa Daet depicting an episode from the Vessantarajātaka where Vessantara and his family are in the palace. Height 140 cm., width 80 cm., depth 20 cm. Housed at Khon Kaen National Museum, inv. no. 226/2517 [Photograph courtesy of Nicolas Revire].

**Figure 13:** Sema from Wat Sibunrueang, Kalasin province, depicting the episode in which Vessantara gives away Maddī to Sakka, who is disguised as a Brahmin. Height 144 cm. [Photograph courtesy of Paisarn Piemmettawat].

least two centuries. It is difficult therefore to imagine any direct link or affiliation between the artists who carved the *semas* from Mueang Fa Daet and those who were at work in Thaton.

## Floral Motifs and the Form of the Semas

It has been shown that by comparing *jātaka* scenes from northeast Thailand and Thaton that, while there is a large degree of similarity in terms of narrative content between the two regions, there is little direct connection in terms of the style and composition of the episodes. This lack of similarity is further emphasised and confirmed when we analyse the form of the *semas* and their floral motifs.

In terms of form, the *semas* from northeast Thailand and Thaton are quite different. The majority of *sema* stones from northeast Thailand with narrative scenes are of the slab type variety and resemble a stylised leaf in design, usually slightly tapered and curving inwards at the top to form a point (Murphy 2010: 344-365). The *semas* from Thaton [Figure 14], on the other hand, are more similar, albeit not exactly

the same in design, to the tapered pillar type *semas* from northeast Thailand. They taper inwards towards the centre before tapering outwards again toward the top, a design that is nowhere encountered in northeast Thailand. In fact the closest parallel in terms of design are perhaps the Khmer pillars found along causeways at temples throughout northeast Thailand and the Khmer empire itself. It is uncertain, however, whether there is any direct link between these two forms.

Furthermore, in terms of the floral motifs present on the semas, there is little in common between the two regions. The large majority of the semas from Thailand possess either a single or double band of lotus petals along the base, above which the narrative scene is usually depicted [Figures 4, 9 and 12]. The top part of the sema, on the other hand, is never carved with floral motifs (Murphy 2010: 334-336). In comparison, the Thaton semas usually have both the upper and lower sections decorated with floral motifs. The lower part is usually a single band, with triangular-shaped lotus leaves, while the upper section can be very elaborate consisting of the whole upper section of the *sema* [Figure 14]. This floral carving is extremely reminiscent of Khmer art and may in fact be due to Khmer presence in



the region of lower Myanmar from the early eleventh century onwards (Luce 1969: 21-23). It is worth noting here that if the Khmers were in fact present in Thaton at this period, it would seem a very unlikely place for a group of Mon "refugees" from Thailand attempting to escape the Khmers to settle.

Another important difference is the presence of a stylised *stūpa* motif on either the front or rear of the majority *semas* from northeast Thailand. This stylised axial *stūpa* can appear within the narrative scene such as in **Figure 8a** depicting the *Mahājanakajātaka*, on the reverse side of a carved *sema*, or it can be the main artistic component of the *sema* itself (Woodward 2003: 101-103; Murphy 2010: 312-314). Significantly, no such motif appears on the *semas* from Thaton.

Figure 14: Illustration of the sema with the Mahājanakajātaka from the Kalyānī Sīmā, Thaton (lower Myanmar; still in situ) showing ils tapering form and upper and lower parts carved with floral motifs. Approximate dimensions: height 130 cm., width 48 cm. depth 10 cm. [Photograph by Stephen A. Murphy].

## Conclusion

This essay has outlined the earliest evidence for *semas* in Myanmar and northeast Thailand and in doing so has attempted to show that there was a sufficient artistic and religious tradition in place to point towards a "Burmese" origin for the *semas* at the Kalyāṇī Sīmā in Thaton as opposed to an external source such as suggested by Piriya Krairiksh (1974). The site of Vesāli in particular, seems to provide evidence for the early use of *semas* while the stone triads at Śrīkṣetra illustrate that there was a well-established tradition of monumental Buddhist relief carving and sculpture in upper Myanmar from the sixth to seventh centuries onwards.

In comparing the *semas* from northeast Thailand and those from the Kalyāņī Sīmā in Thaton, it becomes apparent that while there is a large degree of uniformity in terms of content, there is also significant divergence in terms of style, composition and form. This leads to the conclusion that there was no direct contact between those who carved and set up the *semas* at Thaton and their counterparts in northeast Thailand. The *semas* from northeast Thailand therefore do not appear to be the artistic source for those at Thaton. If Piriya's hypothesis was correct and a group of "Mon refugees" had settled in Thaton, leading to the creation of the *sema* stones at the Kalyāņī Sīmā, then we would expect to see much more continuity in terms of style and form.

It seems much more plausible that the inhabitants of northeast Thailand and those in lower Myanmar shared extremely similar Buddhist religious traditions, perhaps derived from the same Pāli Canon.<sup>19</sup> This would provide a much more satisfactorily explanation of the similarities, and at times identical content of the *sema* stones from the two regions. To further emphasis this point, it should be noted that the movement of ideas and the movement of peoples are not the same thing. While ideas, be they religious, artistic or technical can move swiftly and freely along pre-existing trade routes and lines of communication, leaving very little material evidence in their wake, the movement of peoples, on the other hand, is an entirely different proposition. If the Mons of northeast Thailand did in fact migrate to Thaton, we would expect to see a much larger archaeological, material, epigraphic and artistic footprint than what we are left with today.

What is clear however, it that the *semas* from Thaton and those spread throughout northeast Thailand, bear testament to the common religious traditions and artistic languages shared by both these regions as expressed through the medium of Buddhist narrative art.

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## Endnotes

- 1 A discussion of what constitutes Dvāravatī is beyond the limits of this essay. Suffice to say that the prevailing view in scholarship is that it is a primarily early Buddhist culture and to a lesser extent Brahmanical, that arose in central and part of northeast Thailand consisting of urbanised polities more often than not based around moated sites. The degree to which it formed a uniform "state" or political entity is still a contentious issue. For an up-to-date overview of the definitions and debates surrounding the term Dvāravatī, see Skilling (2003); for a summary of the archaeological evidence, see Phasook (2542 and 2004); for definitions of the Dvāravatī art style, see Boisselier (1975: 73-92) and Woodward (1997: 43-74); for issues regarding the dating of the Dvāravatī period, see Barram & Glover (2008) and Glover (2010); for inscriptions, see Revire (this volume).
- 2 Sema stones from this period are also found in central and southern Laos. However, this essay will focus on those found in northeast Thailand only. For discussion of semas in Laos, see Lorrillard (2008: 119, figs 3-6; see also this volume) and Murphy (2010 and 2013).
- 3 Piriva for instance states "harassed by the encroachments of the Khmers into their territories, some of the Mons in northeast Dvāravatī may have decided to seek safety at Thaton, the fabled cradle of Mon Buddhism [...]. On arrival they probably would have consecrated a chapter house for the continuation of their religion, and, as was the custom of their forebears, they would have embellished the semas with scenes from the Mahānipāta-Jātakas [...]" (1974: 63). Piriva is here building on an idea floated by Ouaritch Wales (1947: 152-156) that Buddhism was reintroduced to Thaton by the Mons of Lamphun (ancient Haripuñjava/Haripunchai) in the mid-eleventh century and Cœdès (1966), who mentions a reference in Pali sources stating that, in the eleventh century, Mons from Lamphun fled to Thaton to escape a cholera epidemic (see also Moore & San Win, this volume).
- 4 Mueang Fa Daet is located in modern-day Kalasin province while Ban Nong Chat is in Khon Kaen province, northeast Thailand. For further discussion, see Murphy (2010: 157-160, 163-164 and 2013).
- 5 For a discussion of *sīmā* in a modern-day Cambodian context, see Harris (2010).
- 6 For comprehensive surveys of *bai semas* in Thailand spanning the Ayutthaya to Thonburi periods, see No Na Paknam (2524) and Pitya (2550).
- 7 For the sake of consistency, the Thai term *sema* (as opposed to the Pāli term *sīmā*) is employed throughout this essay to define "boundary markers."

- 8 I have demonstrated, however, that the numbers can vary. For instance during the so-called Dvāravatī period the number of *semas* employed can be as high as twenty-four stones being use at certain sites (Murphy 2010: 95-103).
- 9 For an account of the corresponding ceremony in Cambodia, see Giteau (1969).
- 10 See the Uposathakkhandhaka (Vin IV 139-147).
- For Cambodia, see Boulbet & Dagens (1973); for Laos, see Lorrillard (2008: 119) and Murphy (2010: 173-81 and 2013).
- 12 Unpublished site report by the Burmese Department of Archaeology.
- 13 For further discussion on the problematic nature of the term "megalith" in a Southeast Asian context, see Glover (1998) and Murphy (2010: 365-374).
- 14 Today the *semas* at the Kalyāņī Sīmā in Thaton are enclosed in metal cages and are thus difficult to photograph [e.g. Figure 14]. Upon visiting the site in July 2011, I managed to photograph them as best as possible through the bars, allowing for close up details of the carvings but not illustrations of the overall stones. For good quality photographs of the stones before they were enclosed, see Luce (1985: pls 92-95).
- 15 Unfortunately the side depicting the stolen child episode is now extremely badly eroded and difficult to make out. However, there is a good illustration of this in Piriya (1974: fig. 9). For the relevant section of the Pali text, see Cowell's translation (1957: VI, 207).
- 16 Unfortunately the nobles are not quite visible in Figure 5. However, they are clearly shown in Luce (1985: pl. 93d).
- 17 For Thaton, see Maung Mya, (1934: 203-204). The *Mahājanaka* scene on the *sema* from Ban Non Chat has been identified by the author of this article in Murphy (2010: 227-228). For its textual basis, see Cowell's translation (1957: VI, 22-23).
- 18 There is one possible exception to this on a sema from Mueang Fa Daet. See Murphy (2010: 222-224).
- 19 Pāli inscriptions for instance are attested in upper Myanmar, at Śrīkṣetra, from the fifth-sixth century CE onwards (Stargardt 2000) and in central Thailand from the seventh-eighth centuries (Revire, this volume). However, to the best of my knowledge, to date, no Pāli inscriptions have been discovered in northeast Thailand prior to the eleventh century.

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# Tantric Buddhism at Prasat Hin Phimai: A New Reading of Its Iconographic Message

PIA CONTI

## Introduction

The beautifully carved sandstone temple at Phimai on the Khorat Plateau is the first tantric Buddhist sanctuary built on a royal scale in the ancient Khmer empire. It was built between 1080 and 1108 CE in the reign of Jayavarman VI (r. 1080-1107 CE) who founded the Mahīdharapura dynasty that took Angkor to its apogee of power in the twelfth century. Jayavarman VI was crowned in Angkor, but he did not build a state temple there. The great work of sacred architecture of his reign was Prasat Hin Phimai with its powerful new message from the gods of tantric Buddhism. Prasat Hin Phimai is the only major temple in the Khmer empire to be adorned with tantric Buddhist imagery before Jayavarman VII (r. 1181/2-1216 CE) made tantric Buddhism the "state religion" in Angkor at the end of the twelfth century. Previous pages: Stone lintel characteristic of the Bayon style, late 12th-13th century. Phimai National Museum [Photograph courtesy of Paisarn Piemmettawat].

This essay presents a new English translation of a key tantric Buddhist inscription found at Sap Bak, near Phimai, and argues that the tradition of tantric Buddhism had long thrived on the Khorat Plateau. Tantric beliefs cross several generations and have links to both the tantric Buddhist history of tenth century central Cambodia as well as to the birth place of Buddhism in India. A discussion of these links paves the way for a new reading of Prasat Hin Phimai's famous inner lintels showing that one of their key functions is to symbolise the unity of body, speech and mind, as a central idea of this tradition. It takes the *mandala* of the *Guhyasamājatantra* and of the *Cakrasamvaratantra* to be primary influences on its iconography.

# Background and New Research on Tantric Buddhism

In 1966, Jan Boeles wrote a ground-breaking article suggesting that the Hevajra cult had adherents in northeast Thailand in the early twelfth century and that a form of Vajrayāna, originating from Phimai on the Khorat Plateau, might have spread to Angkor, the capital city of the Khmer empire (1966: 28). The religious orientation of the Khmer empire subsequently changed under Jayavarman VII from a Brahmanical outlook to Buddhism of a tantric kind.

Two newly published bronzes of dancing women inspired Boeles' thesis: a fierce looking one from somewhere east of Nakhon Ratchasima; the other one, rather friendly looking, originating from Khon Kaen. Boeles connected them to a small collection of bronzes of dancing deities from the Bangkok National Museum and identified them as

**Opposite Figure 1a:** Stele with naga-enthroned Buddha, Thailand, 10th century, Bangkok National Museum, inv. no. 12/2475 [Photograph by Pia Conti].



Figure 1b: Stele with preta satisfied Avalokiteśvara, Thailand, 10th century, Bangkok National Museum, inv. no. 12.2475 [Photograph by Pia Conti].

*yoginīs*, probably companions of the tantric deity Hevajra. A *Hevajra*or *Trailokyavijayamaņdala*, a clay tablet displaying the world order of a tantric universe, and a lintel from the Khmer Buddhist temple of Prasat Hin Phimai in the province of Nakhon Ratchasima provided the core material for his suggestion (Boeles 1966: pls 1-9).

Boeles found help in his endeavour to interpret the rather mysterious Vajrayāna figures in the then recently published translation of the *Hevajratantra* (henceforth HT) by David Snellgrove (1959). The book had given him "a valuable instrument" for the study of tantrism, then still in its infancy in Europe (1966: 21). Since the publication of his article and Snellgrove's pioneering translation, more tantras relevant to Prasat Hin Phimai have been reconstructed and translated into western languages, for example the *Gulyasamājatantra* (henceforth GST) by Francesca Fremantle (1971) and the *Cakrasaņwaratantra* (CS) by David Gray (2007).

Art historical and epigraphic research into Cambodian Buddhism, especially in its tantric form, has brought new findings as well. Phnom Trap, a small temple in Kompong Cham province, previously interpreted as Brahmanical (Aymonier 1900: I, 32), has now shown to be tantric Buddhist (Green 2012). Moreover, the famous inscription of Wat Sithor, recently retranslated by Tadeusz Skorupski, sheds new light on the extent tantric Buddhism was likely to have in the Khmer empire in the tenth century.

Furthermore, new research on the history of tantric Buddhism and its sculptural traditions in India, the birth place of the tantric movement, has broadened our general knowledge on this branch of Buddhism. In the light of these recent discoveries, we will have to reconsider Boeles' proposition on the movement of Vajrayāna from Khorat to Angkor in favour of a much more reciprocal relationship between the Khorat Plateau and the Angkorian heartland.

# Traces of Tantric Buddhism on the Khorat Plateau before Prasat Hin Phimai

Until recently evidence for the presence of tantric Buddhism on the Khorat Plateau has been rather sparse. Besides the material from Phimai and the inscription of Sap Bak, we have two Khmer style steles with tantric images hailing from the northeast, now located in the Bangkok National Museum **[Figures 1a-b, 2]**. The first stele is dated to the tenth century (Woodward 2007: 74), the second to the beginning of the twelfth century (Piriya 2012: 301), that is, contemporaneous to Prasat Hin Phimai.

The first stele shows images of a *nāga*-enthroned Buddha [Figure 1a], a dancing Vajrapāṇi, a Prajñāpāramitā, a Tārā (possibly), a four-armed Avalokiteśvara and a eight-armed Avalokiteśvara [Figure 1b] whose lower arms are in a particular gesture, called *pretasantarpita*, which seem to relate to an early tantric text, the *Kāraṇḍavyūhasūtra* (Woodward, forthcoming). There is also epigraphic evidence for the presence of the *Kāraṇḍavyūhasūtra* in the Khmer empire (Woodward 2007: 72).

The second stele shows an assemblage of Vajrapāṇi, the *nāga*enthroned Buddha and possibly Prajñāpāramitā **[Figure 2]**. Three early tantric, Bengali-style, bronzes found on the Khorat Plateau (Woodward



2003: 93) are further proof of the presence of tantric images. Since bronzes are easily movable objects, it is likely that itinerant monks or merchants brought them to the region or that travelling bronze casters made them for local patrons.

Besides these previously known icons, Emma Bunker and Douglas Latchford (2011: 185-218) presented a whole series of tantric bronzes from private collections which were said to have been found on the Khorat Plateau or in northwestern Cambodia. These bronzes, among them one eight- and two four-armed Avalokiteśvaras and two Padmapaṇīs, four Vajrasattvas, one Vajradhara, and a Cundā were previously unknown, hidden as they were in private collections. Their presence substantially enlarges the amount of tantric material known from the region and leads us to infer that tantric Buddhism had a much greater presence on the plateau than previously surmised.

There is also one image of a *nāga*-enthroned Buddha, exhibiting Khmer features, which was found on the Khorat Plateau. Woodward (1997: 72) assigned it a tenth century date and concluded that the little Buddha figure illustrates the "exchange of iconographic ideas between workshops of the Dvāravatī towns and the Kingdom of Cambodia." A unique *caitya*, i.e. a Buddhistic monument or object of veneration **[Figure 8]**, which was found at Prasat Ta Muean **[Map 1]**, a small

Map 1: Sites from northeast Thailand and Cambodia mentioned in the essay [Drawing courtesy of Hélène David-Cuny].

**Opposite Figure 2:** Stele with dancing Vajrapāņi and nāga-Buddha, Thailand, 10th century, Bangkok National Museum, inv. no. 1/2475 [Photograph by Pia Contil.

Figure 4: Avalokiteśvara, Tuol Chi

Tep, Cambodia, 10th century, Musée

Guimet, Paris, inv. no. MG 14912

[Photograph by Pia Conti].



Figure 3: Vajrapāņi, Tuol Chi Tep, Cambodia, 10th century, Musée Guimet, Paris, inv. no. MG 14892 [Photograph by Pia Conti].

Buddhist temple in the Dangrek range on the route between Angkor and Phimai, also bears testimony to the exchange of iconographic ideas. The *caitya*, now in the Ashmolean Museum in Oxford, features one Prajñāpāramitā with a *nāga*-enthroned Buddha over her head, two unidentified female deities and an Avalokiteśvara.

The *nāga*-enthroned Buddha became the most widespread image representing the Buddha in tenth century Cambodia (Dupont 1950). It has been proposed by various scholars that the  $n\bar{a}ga$ -enthroned Buddha came to symbolise, for the Khmers, the transcendent nature of the Buddha (Cœdès 1923: 37; Lobo 1997; Woodward 2003: 152, 311; Sharrock 2011: 487).<sup>1</sup> George Cœdès and Wibke Lobo see the Buddha on the *nāga*-throne as representing the so-called Adibuddha, who was "enlightened before the beginning of time." He is the "personification of the most fundamental principles of Buddhism." Peter Sharrock (2011: 488) suggests that in the tenth century Buddhist context, the Khmer nāga-enthroned Buddha came to symbolise Vairocana, the main Buddha of the Vajradhātumandala. It is interesting to note in this context that the *nāga*-enthroned Buddha was first portraved in ancient Cambodia in company of the tantric deity Vajrin [Figure 6b]. The presence of the nāga-enthroned Buddha in ancient Khmer territories could thus be interpreted as an indicator of the presence of tantric thought.

# Traces of Tantric Buddhism in the Angkorian Heartland before Prasat Hin Phimai

In tenth century Cambodia we find other early expressions of Buddhist tantrism. The presence of the deities Vajrin ("possessor of the vajra") or Vajrapāṇi ("vajra in hand") and of Trailokyavijaya ("conqueror of the three worlds") in the Khmer heartland and their reappearance in Phimai one hundred and thirty years later, suggests that Angkor's strand of tantric Buddhism may have travelled to the Khorat Plateau and influenced the choice of icons presented in Phimai.

One of the first manifestations of Vajrayāna in Angkor can be found in the inscription K. 266 of the little three tower temple at Bat Cum which was built around 953 CE. The temple is dedicated to the deities Vajrapāṇi, the Buddha and Divyadevī (Prajñāpāramitā) (Cœdès 1908: 8). Bat Cum was built by Kavīndrārimathana, the Buddhist architect and military leader of King Rājendravarman (r. 944-968 CE). It celebrates a military victory over the Cham. This military success has been credited to the spiritual help of Vajrapāṇi, the tantric warrior deity.

Unfortunately, no images of Vajrapāṇi, Prajñāpāramitā or the Buddha hailing from Bat Cum have been recovered. There is, however, a group of tenth century images found at Tuol Chi Tep near Phnom Trap at the Musée Guimet in Paris which hails from the same period. The group includes a fierce Vajrapāṇi with bulging eyes and fangs [Figure 3], an Avalokiteśvara [Figure 4] and a Buddha [Figure 5] (Baptiste & Zéphir 2008: 166-170). A similar group of tantric deities appear, chiseled in brick, inside the three *prasat* shrine of Phnom Trap D where a four-armed Avalokiteśvara, flanked by two four-armed Devīs, is depicted in the central shrine; an eight-armed Avalokiteśvara embellishes the southern and a four-armed Vajrapāṇi the northern shrine (Green 2012).

The deities praised at Bat Cum are also portrayed on the *caitya* of Kbal Sre Yeay Yin, where a *nāga*-enthroned Buddha [Figure 6a] appears in company of Vajrin [Figure 6b], Prajñāpāramitā [Figure 6c] and Avalokiteśvara [Figure 6d]. Another *caitya* features Vajrin/Vajrapāṇi [Figure 7a] with a tantric ten-armed Prajñāpāramitā [Figure 7b] and Avalokiteśvara. These four deities thus seem to form an important sacred nexus for the tenth century Buddhist devotees. Interestingly only Vajrapāṇi and the *nāga*-enthroned Buddha feature at Prasat Hin Phimai. Avalokiteśvara and Prajñāpāramitā, so prevalent in the tenth century, did not make their way to Prasat Hin Phimai. They gained supreme importance only under Jayavarman VII, who installed them as protectors of Buddhism and patron deities of two of his major temples, Preah Khan and Ta Prohm.

The inscription (K. 111) of Wat Sithor (980 CE) also bears testimony to the fact that tantric Buddhism had a significant presence in the Khmer empire. A recent retranslation by Skorupski showed that many tantras were known at the time of Jayavarman V (r. 968-1000/1 CE). This Angkorian king, though publicly a Śaiva, encouraged his Buddhist minister Kīrtipaṇḍita to strengthen Buddhism and to import Buddhist texts from abroad (Sharrock 2012: 233). One of these texts is named the *Tattvasaŋgrahaṭīkā*, a sub-commentary to the *Tathāgatatattvasaŋgrahanāmamahāyānasūtra* (STTS), the principal scripture of the Yoga Tantras (Sanderson 2003-04: 427; Sharrock 2012: 208). This tantra probably originated in the Buddhist monasteries of Nālandā and had a widespread influence in medieval Indian society and many Buddhist communities in Asia. A fair number of subsequent tantric texts took their inspiration from it.

One of the protagonists of this tantra is the deity Trailokyavijaya, "the conqueror of the three worlds," who features prominently in the Phimai inscription K. 397. Vajrin/Vajrapāṇi is another major player in the STTS, where he appears in two *maṇdalas*. One, dedicated to Vajrapāṇi, is called the *Trailokyavijayamaṇdala*. Thus the STTS presents Vajrapāṇi as an aspect of Trailokyavijaya and vice versa. The central myth celebrated in the STTS is the subjugation of Maheśvara (or Śiva) by Vajrapāṇi and the former's subsequent conversion to Buddhism.

Tantric Buddhism thus seems to have had a significant presence in ancient Cambodia, though it never functioned as the official "state religion" which remained Saiva. Buddhism appears to have played a role as private faith for the Khmer intelligentsia – for important intellectuals such as Kavīndrārimathana and Kīrtipaṇḍita. There are even hints in the inscriptions which suggest that Jayavarman V was privately a Buddhist (Sanderson 2003-04: 429). Tantric deities were



Figure 5: Buddha, Tuol Chi Tep, Cambodia, 10th century, Musée Guimet, Paris, inv. no. MG 14880 [Photograph by Pia Conti]. invoked as protectors during war as well as during times of peace. The inscription of Wat Sithor also relates that tantric Buddhist rituals, such as *homa* rites, were performed daily in Jayavarman V's palace in order to protect the state (Sharrock 2012: 205). Kīrtipaṇḍita also established Buddhist *āśramas* for the *samgha* and guests.

## The Inscription of Sap Bak (K. 1158)

The inscription K. 1158 is the major text documenting the presence of tantric Buddhism on the Khorat Plateau. The inscription stone was found broken near the village of Sap Bak, located about 40 km southwest of Phimai in the province of Nakhon Ratchasima **[Map 1]**, and there is no other archaeological context for it. No remains of a sanctuary or monastery have been unearthed. Sap Bak's proximity to Phimai, and the extent of the tradition of tantric Buddhism it alludes to, suggests that the deities celebrated in the inscription were well known in the region. Information gathered from the inscription will contribute to this essay's interpretation of Prasat Hin Phimai's iconography.

Left Figure 6a: Naga-Buddha, Caitya Kbal Sre Yeay Yin, Cambodia, 10th century, Musée Guimet, Paris, inv. no. MG 17487 [Photograph by Pia Conti].



Right Figure 6b: Vajrin, Caitya Kbal Sre Yeay Yin, Cambodia, 10th century, Musée Guimet, Paris, inv. no. MG 17487 [Photograph by Pia Conti].

Left Figure 6c: Prajñāpāramitā, Caitya Kbal Sre Yeay Yin, Cambodia, 10th century, Musée Guimet, Paris, inv. no. MG 17487 [Photograph by Pia Conti].

Right Figure 6d: Avalokiteśvara, Caitya Kbal Sre Yeay Yin, Cambodia, 10th century, Musée Guimet, Paris, inv. no. MG 17487 [Photograph by Pia Conti].







Right Figure 7b: Ten-armed Prajňāpāramitā, Kbal Sre Yeay Yin, Cambodia, 10th century, Phnom Penh National Museum, inv. no. Ga 1735 [Photograph by Pia Conti].

Left Figure 7a: Vajrin, Kbal Sre

Yeay Yin, Cambodia, 10th century,

Phnom Penh National Museum.

Pia Contil.

inv. no. Ga 1735 [Photograph by

The inscription is dated to the year 1066 CE, to the end of the reign of King Udayādityavarman II (r. 1050-1066 CE). Only a short interval of fourteen years between the inscription and the time in which the temple of Prasat Hin Phimai was most likely conceived. The extant temple was built under the reign of Jayavarman VI. Prasat Hin Phimai itself, however, has a long history as a sacred site. Archaeological evidence shows that there were previous holy structures at the site (Groslier 1962; Talbot 2002). An inscription, K. 1000, which is undated, mentions a stone image of the Buddha, a *muniraj* (Jacques 1969: 58), and K. 954, dated 1041 CE, found at the site, gives homage to Śiva and Buddha.

The inscription has been translated several times: first by Chirapat Prapandvidya (1990: 12-15) into English shortly after its discovery. Another Sanskritist, Julia Estève (2009: 442-520), went over the rubbings of the inscription and proposed an alternative Sanskrit reconstruction of the text together with a new translation into French. Based on her Sanskrit reconstruction, Tadeusz Skorupski, a tantra specialist, has provided another English translation from which I will procure most of my information. Skorupski's translation is published as an appendix to this essay **[Appendix 1]**.

The inscription has two parts. The first part consists of fifteen verses written in Sanskrit praising a deity called Śrī Samāja. This deity appears to be the name of the main deity in the GST. The second part is an inscription in Khmer referring to a restoration of nine Buddhist images (*buddhalokeśvara*) undertaken by the author of the Sanskrit inscription whose name is Dhanus. Both Chirapat (1990: 13) and Estève (2009: 450) have offered translations of the Khmer part.

## The Sanskrit Portion of K. 1158

These verses give us a small, but precious insight into the tradition of tantric Buddhism among the Khmers of the Khorat Plateau.



Figure 8: Prajñāpāramitā, Cambodia, mid-10th century, Ashmolean Museum, Oxford, inv. no. EA 1999.102 [Photograph courtesy of Delphine Desoutter].

Verse 1 starts with Vrah Dhanus, the author of the inscription, bowing to "the five Sugatas" which are seen as "the originators of the glorious bodies of the excellent gods." The term *sugata* is here used as an epithet for the five directional Buddhas, or Jinas, Aksobhya, Vairocana, Ratnasambhava, Amitābha and Amogasiddhi.

Verse 2 praises Vajrasattva, "the sixth, the preeminent lord of the existing Bodhisattvas, the foundation of all Buddhas." In the GST, Vajrasattva is the supreme Buddha who is above the five Buddhas or Jinas and, at the same time, seen as the ground or foundation of all of them.

Verse 3 expresses the hope that the author of the inscription will become part of the tradition of believers in the deity Śrī Samāja in all his future rebirths or lives. The first three verses thus establish the deities praised in the inscription as the five Sugatas (Jinas), Vajrasattva, and Śrī Samāja who here is meant to be a deity and not a text. These three entities appear later under the name *triguru* or the triple gurus (cf. verse 11).

Verse 4 relates that Dhanus "has heard the command of the supreme guru," presumably Śrī Samāja and that he pays homage to him.

Verse 5 introduces a region or place called "Chpārransī, which was originally called Jayantrapura," where "the protector Śrī Samantaprabheśvara has resided."

Verse 6 relates that the above named Śrī Samantaprabheśvara "has made the Buddha's dispensation or teachings firm in Kambuja down to the present time," after "having appeased the fear [or apprehension] of the Buddhists."

As Sap Bak is located on the Khorat Plateau near Phimai, there has been a lot of speculation on the whereabouts of Chpārransī. According to Étienne Aymonier "Chpārransī" is the Khmer translation of the Sanskrit word *aņsārāma*, which is the equivalent of *veņuvana*, the famous Bamboo Grove of the Buddhist texts. Aymonier has thus given an early hint that the place may be Buddhist (Estève 2009: 433). Chpārransī is mentioned fourteen times in the corpus of Khmer inscriptions between 924-1190 CE. Estève has gone over all the inscriptions in the Khmer corpus which mention Chpārransī and has argued that it is an important tantric Buddhist place in the Angkor region (Estève & Vincent 2010: 150). She also concluded from the corpus of inscriptions that Chpārransī had been an important religious place for centuries.

Several identities have been suggested for the "protector Śrī Samantaprabheśvara." Chirapat (1990: 13) speculated that he could be King Sūryavarman I because he was believed to have been in favour of the Buddhists during religious rivalries in the eleventh century. Alternatively, Chirapat proposed that Śrī Samantaprabheśvara could be a deity. Estève (2009: 444-450) argued that Śrī Samantaprabheśvara is the very deity of Chpārransī, either a Buddha or his image. According to the latter, the deity protected the Buddhists in Kambuja during times of religious strife and helped to anchor tantric Buddhism in Cambodia. Jacques (1969: 60) also finds that Srī Samantaprabheśa is a Buddha.

The inscription on the Khorat Plateau would thus connect its religious heritage to a place in the region around Angkor which, according to the different sources studied, may have been Buddhist from "mid-tenth century onwards until the fourteenth century" (Estève & Vincent 2010: 154). This evidence ties in well with the other manifestations of tantric Buddhism in the tenth century as discussed above. The inscription's verses 7-9 praise three venerable teachers. They are likely to be the teachers of the author Dhanus. The three individuals, all accomplished beings, seem to form a lineage of gurus, thus implying that the GST, or related tantras, and its adepts have been in the region for an extended amount of time.

The first guru in line is Cunvi; the second guru is called Campakapāda. He is respected by other *siddhas*, or accomplished beings, and may have been a teacher in Chpārransī. He is said to have reached *nirvāņa* in the region of Sthalāsvāy. The third guru, the venerable Dharaņīndrapura, has "settled his heart in enlightenment" and possibly contributed to the adoration of the Buddhas by giving treasures to images.

These three "calmed ones," says verse 10, "have reached the fruit of reality [or the fruit that is the ultimate reality] under the secret tree [or the mystical tree], after having traversed the ocean by way of the perfection of wisdom, the commentaries on logic and the rest." In other words, the three gurus reached enlightenment after having studied the Mahāyāna scriptures such as the *Perfection of Wisdom*, and logic, and gained true knowledge of reality, of what really exists, and then passed away. In short, they became Buddhas.

Verse 11 says that Dhanus is a student of the "established doctrine" and venerates the triple gurus. The triple gurus relates back to the deities introduced in the first three verses, namely the five Jinas, Vajrasattva and Śrī Samāja. These are the deities of Dhanus' three teachers, Cunvi, Campakapāda and Dharaṇīndrapura, the three gurus in our translation.

Verse 12 relates that Dhanus with a mind inflamed with "sparks of the Kāśikā, poetry and other outer texts," sips "the secret elixir" already for a long time and is keen on "the sap of fire oblations, recitations, and yoga." Dhanus thus is involved in all kinds of tantric rituals such as the *homa* ritual, mantra recitations and yogic exercises.

Verse 13 tells us that Dhanus has "installed Jinas and other images in Tenpāsnaga, the fortunate place of pilgrimage."

Verse 14 is an invocation of several deities through which Dhanus "has realised and personally grasped something about the destruction in this world and, indeed, in the other world."

Dhanus finishes the inscription in verse 15 expressing the hope that due to his meritorious deeds he will be reborn in Kambuja. He is still on the way to being enlightened and finds Kambuja an ideal place for the achievement of this goal.

## The Khmer Portion of K. 1158

The Khmer text describes the erection of nine Buddhist images (*buddhalokeśvara*) on mount Abhayagiri by Śrī Satyavarman, a tantric practitioner of the past, who was renowned for supernatural powers. The images were erected to deter "Javā" from attacking the Khmer territories. These images all deteriorated in the course of time and were renovated by the above mentioned guru Dharaṇīndrapura. In turn, his pupil, Dhanus, reinstalled them in 1066 CE.

K. 1158 thus gives us a quite extensive account of the presence of tantric Buddhism in the Khorat Plateau. It reveals that there is a lineage of tantric adepts which is in its fourth generation now and which have chosen Śrī Samāja as their deity. It also shows that there is a connection



Figure 9: View of Prasat Hin Phimai from the northwest, Thailand, 11th-12th century [Photograph by Pia Conti].

> between the followers of the GST on the Khorat Plateau and an as yet unidentified sacred place in the Angkor region named Chpārransī, and that one of the followers of the GST also played a role in that sacred place. It implies that the way to achieve *nirvāņa* is through the studying of the Mahāyāna scriptures, Buddhist logic and grammar, performing rituals, erecting images, emitting mantras, and above all through identification with Śrī Samāja. It tells us that all the adepts of the tantras have reached their goal and left this earthly existence for *nirvāņa*. It tells us that the deities worshipped in the tantra are Śrī Samāja, the Jinas and Vajrasattva, and indicates that tantric Buddhism is the established doctrine in the land. In addition it speaks of a *tīrtha*, a sacred place of pilgrimage, at Tenpāsnaga, which was probably in the region. This pilgrimage site was in existence for a substantial amount of time, since images, which had deteriorated, were reinstalled by two successive gurus.

> The Khmer part also gives some interesting information regarding the erection of images at Tenpāsnaga by Satyavarman. A Satyavarman is also mentioned in an earlier Khmer inscription, K. 111 (Wat Sithor), discussed above, which relates that Kīrtipaṇḍita, who lived in the tenth century, had re-erected more than "nine and or ten images of Vajrin and Lokeśa, which were raised by Satyavarman on the eastern hill and whose pedestals were damaged" (Sharrock 2011: 216). The fact that a Satyavarman is mentioned in both inscriptions, K. 111 and K. 1158, in connection with the erection of tantric images, makes it likely that we are dealing with the same person.<sup>2</sup> The images at the *tīrtha* of Tenpāsnaga on mount Abhayagiri thus have a long history; they may have been erected as early as the ninth century. Unfortunately, I have not yet been able to further determine the location of the *tīrtha*, but it is not unreasonable to assume that it was located somewhere near Sap Bak on the Khorat Plateau.<sup>3</sup>

> I would now like to link these results with Prasat Hin Phimai and see if we can find any correspondences between the elements in the material record in the area surrounding Phimai and the Buddhism celebrated at the temple itself.

## The Deities of Prasat Hin Phimai

The late eleventh-early twelfth century Khmer temple of Prasat Hin Phimai **[Figure 9]** is innovative in more than one way. It provided the prototype for the "pine-cone" shaped towers which later crowned the temple of Angkor Wat, built under Sūryavarman II (r. 1113-1150 CE), and was the model for the later *prang* structure of central Thailand. Moreover, it features a cruciform layout in the main sanctuary that inspired later Khmer temples such as Phanom Rung on the Khorat Plateau and Banteay Samre in Angkor.<sup>4</sup>

The iconography of Prasat Hin Phimai has several elements which connect it with the above described tradition. Epigraphic fragments provide vital information as well. The fragment K. 397, dated 1108 CE, found on the pedestal of the southern *gopura* of the second enclosure, states that an image of Trailokyavijaya was erected at the Prasat Hin Phimai sanctuary by a local dignitary "Kamraten Añ Srī Vīrendrādhipatvarma of Chok Vakula." This image is called a general (*senāpati*) to the Kamraten Jagat Vimāya, presumably the main image of Prasat Hin Phimai, which was probably a Buddha (Cœdès 1924: 346-350). The Trailokyavijaya image was installed most likely in the southern *gopura*.

Srī Vīrendrādhipatvarma, the author of the inscription, is known to us as a participant in the big military parade of dignitaries on the southern relief enclosure at Angkor Wat (Cœdès 1924: 346), where he is identified by an inscription. His participation in the parade depicted in Angkor indicates he was still a powerful individual under Sūryavarman II, the builder of the temple, and one of the successors in the line of kings from Mahīdharapura which was founded by Jayavarman VI probably in the Khorat region.

Trailokyavijaya, the "conqueror of the three worlds," is a tantric deity who became prominent in the second phase of the development of tantrism in India during the eighth century (Linrothe 1999: 270). He is a form of Vajrapāṇi and has a key maṇḍala in the STTS. The Sādhanamālā, an important manual on tantric deities, sees Trailokyavijaya as an emanation of the Jina Aksobhya. Trailokyavijaya shares the colour blue with Aksobhya, a colour that is generally associated with fierce deities and with "gruesome rites" in the tantras (Bhattacharya 1924: 60). Aksobhya is seen as the source of other wrathful deities such as Heruka, Hevajra and Cakrasamvara.

Trailokyavijaya generally displays the *vajrahūmkāramudrā*, the gesture of "being victorious over the three worlds." A bronze which is now at the Bangkok National Museum represents Trailokyavijaya with this gesture. This unique image **[Figure 10]** came from Prasat Hin Phimai (Woodward 2003: 154; Piriya 2012: 298) and may have had some similarities to the stone image of Trailokyavijaya evoked in K. 397.

Prasat Hin Phimai also features the early manifestation of Trailokyavijaya as Vajrapāṇi. The main sanctuary is guarded at its doors by this longstanding bodyguard of the Buddha and master of magic ceremonies, shaking the bell (*ghaṇtā*) and the thunderbolt (*vajra*), and holding off unwanted visitors [Figure 11].

Figure 11: Vajrapāņi, Gate of Victory, southern gopura, Prasat Hin Phimai, Thailand, 11th-12th century [Photograph by Pia Conti].



Figure 10: Bronze Trailokyavijaya, Phimai, Thailand, 11th-12th century, Bangkok National Museum, inv. no. 2.271 [Photograph courtesy of Paisarn Piemmettawat].



# The Buddhist Lintels of Prasat Hin Phimai's Inner Sanctuary

There are five Buddhist lintels in the interior central sanctuary of Prasat Hin Phimai. Four of them are located above the entrance to the central *cella*, one over the entrance to the antechamber (*antarala*). The iconography of the lintels is complex and it is especially difficult to find an interpretation including all five lintels.<sup>5</sup>

Four of the central lintels have similarities in design: they display a central figure in a medallion and two registers with subordinate figures. The eastern, northern and western lintel feature dancing *yoginīs*, an element, which connects them thematically and visually. The southern lintel depicts the *nāga*-enthroned Buddha surrounded by worshippers on the lower register and by seated Buddhas on the upper register (Manit 1962: fig. 35). Rows of seated Buddhas in *dhyānamudrā* are a recurrent motive at Prasat Hin Phimai. The presence of the *nāga*-enthroned Buddha in the southern lintel has lead researchers to suggest that the central image of the temple was probably also a *nāga*-Buddha (Manit 1962; Woodward 2003: 149). Erik Seidenfaden (1923: 17), the first western visitor to describe the temple in a lecture at the Siam Society, had found the central sanctuary empty, so there is no definite proof as to the identity of the central Buddha.

In the remaining part of this essay, I will mainly focus on two of the lintels, namely the northern and the eastern lintels.<sup>6</sup>

## The Northern Lintel

The northern lintel **[Figure 12a]**, I argue, shows a streched out *maṇdala* of Akṣobhya (as Śrī Samāja) with his four fellow Jinas. The five Buddhas sitting cross-legged feature three crowned heads and six arms. The front arms are folded in the meditation gesture (*dhyānamudrā*), the second proper right hand holds a very clearly sculpted *akṣamāla* or rosary. In their third right hand the deities, who are all identical, seem to hold a lotus **[Figure 12b]**. Possibly, the second proper left hand holds a bell (*ghaṇtā*) and the third hand a jewel (or a different kind of lotus). Some of these attributes make the identification of the deities more difficult, since they do not correspond to the usual attributes given to the Jinas in various texts. The only deities in the Buddhist pantheon holding an *akṣamāla* so prominently are Avalokiteśvara, Prajñāpāramitā, Tārā or Cundā.<sup>7</sup>

Figure 12a: Aksobhya lintel, Prasat Hin Phimai, Thailand, 11th-12th century [Photograph courtesy of Paisarn Piemmettawat].



Several scholars have identified the images as representing Vajrasattva (e.g. Boisselier 1966: 302; Dagens 1995: 19), although they also admit that the attributes do not fit the usual iconographic scheme. Bruno Dagens in particular points out that the rosary is not an attribute of Vajrasattva.

Regarding the identification of the central image of the northern lintel as Vajrasattva, it is worth noting that most Khmer Vajrasattvas found on the Khorat Plateau or in Cambodia do not generally feature six arms and three heads, but only one head and two arms **[e.g. Figure 13]**. Most of the local Vajrasattva images balance the *vajra* on their right hand in

front of their chest. They hold the *ghantā* in the left hand on the left hip (Bunker & Latchford 2011: 207-210; Sharrock 2011: 493-496). Despite the iconographic inconsistencies which pose problems for all interpretations, and against the received view, I identify here the central deity as Aksobhya, with his four fellow Jinas. Aksobhya is the Jina in the centre of the *Gulyasanājamandala* and the supreme "deity." The Jinas in Prasat Hin Phimai fit the description given in the GST where they are described in their "vajra form" as "three-headed" with "six arms" and wearing a "crown." The following excerpt of the GST describes them:

Figure 12b: Akşobhya (close-up) Prasat Hin Phimai, Thailand, 11th-12th century [Photograph by Pia Conti].

Imagine Vairocana [delusion], the color of autumn clouds, three-headed, white, black and deep red, adorned with piled-up hair and a crown; imagine the Vajra Lord [Aksobhya], threeheaded, his faces black, red and white, blazing, wearing piledup hair and a crown, agitating the world-realms; imagine the Passionate One [Amitābha], three-headed, his faces, red, black and white, delighting in piled-up hair and a crown, and you will surely succeed; imagine in their right hands the wheel, vajra and lotus; imagine their vajra forms with six arms, beautiful, bearing various weapons. (Fremantle 1971: 80)

I identify the central deity with Akşobhya because Guhyasamāja or Śrī Samāja himself is regarded as a tantric form of Akşobhya. Furthermore, we know from the Sap Bak inscription that the GST was already known in the region. Vajrasattva, the sixth deity of Sap Bak, may also have had a place in the temple. He could have been represented by the central icon of the temple, possibly a *nāga*-enthroned Buddha.

## The Eastern Lintel

The eastern lintel **[Figure 14a]** seems to feature the tantric deity Cakrasamvara (or Trailokyavijaya) with three heads and eight arms dancing on an elephant head. On both sides of the deity are rows of repeated figures: the top row shows ten Buddhas in *dhyānamudrā*, the row below consists of eight *yoginīs* and two *yogins* dancing on corpses. The difference between the *yoginīs* and the *yoginīs* is threefold: the male figures

Figure 13: Bronze Vajrasattva, Barong Lovea, Cambodia, 10th-11th century, Phnom Penh National Museum, inv. no. Ga 5432 (formerly E. 808) [Photograph courtesy of Peter Sharrock].





Figure 14a: Cakrasamvara lintel, Prasat Hin Phimai, Thailand, 11th-12th century [Photograph courtesy of Paisarn Piemmettawat]. hold a *vajra* and a *ghantā*. The females hold a variety of attributes. The *yogins* dance on their proper left leg, and the *yoginīs* on their proper right leg on a row of corpses. The amazing precision of the sculptural work suggests that they may have been related to real dance performances at the temple.

The Cakrasamvara in stone which we see here is almost unique in the Khmer material record. His only other representation is in bronze on the Poipet mould discussed below. The deity can be identified with certainty because of the outstretched elephant hide from which he emerges. He dances in *ardhaparyanka* on the bodies of two prone figures which lie on top of the elephant head. It is most unusual to show the elephant head underneath the dancing deity and the corpses. In India, the head of the elephant hide is stretched behind the deity.

Figure 14b: Cakrasamvara dancing on elephant head (close-up), Prasat Hin Phimai, Thailand, 11th-12th century [Photograph by Pia Conti].



As Chirapat (2007) has pointed out, the *ardhaparyanka* is not in tune with the position Trailokyavijaya/Cakrasamvara is given in the *Sādhanamālā* which should be the *pratyālīdhāsana*, that is the archer position with one foot forward and the back leg stretched. The Cakrasamvara in *ardhaparyanka* is in fact closer to another famous angry deity, the dancing Hevajra. This deity, another Heruka (wrathful Buddhist deity), with its sixteen arms and eight heads, will become more prominent under Jayavarman VII. Cakrasamvara's wild dance on the corpses may symbolise the dynamism of the process of enlightenment as it does for Hevajra (Lobo 1994: 119) and the conversion of Śaiva deities to Buddhism.

A twelfth century bronze mould from Poipet shows a pantheon of deities [Figures 15a-b] which seem to belong together conceptually. The mould has three registers. The first register features a nāga-enthroned Buddha. The second register apparently features a Cakrasamvara, here in pratyālidha pose to the left and Hevajra, dancing, to the right of a six-armed, three-headed, sitting figure, most likely Aksobhya, the alleged deity of the northern lintel at Prasat Hin Phimai. Vajrapāni can be seen dancing in the third row next to a standing six-armed figure which may be Avalokiteśvara. On its right there is a figure, holding a lotus, possibly Padmapāni, another form of Avalokiteśvara. There is a lintel at Prasat Hin Phimai which Dagens (1995: 35) identified as showing Padmapani, its precise location, though, is not given by Dagens who visited the temple before its reconstuction.

On the Poipet mould, the identified Cakrasamvara, Hevajra and Vajrapāņi dance on a corpse, just like they do at Prasat Hin Phimai.<sup>8</sup> The  $n\bar{a}ga$ -enthroned Buddha placed above the other figures may perhaps represent the so-called Ādibuddha, the "primordial Buddha" of the tantric universe, or possibly Vajrasattva, the form the "Ādibuddha" would assume in *sambhogakāya*. If the Poipet mould has any information to offer for a reading of Phimai's temple deities, the *nagā*-Buddha's position in the tablet reinforces the argument that Vajrasattva may possibly be represented as the *nagā*-enthroned Buddha in Khmer iconography.



Figures 15a-b: Bronze mould

(right) and its impression (left)

showing Khmer tantric universe,

Poipet, Cambodia, 12th century,

Ga 5657 [Photograph courtesy of

the Phnom Penh National Museum].

Phnom Penh Museum, inv. no.

The Samvara of Prasat Hin Phimai displays other peculiarities. In Pāla India, where the original iconography was most likely conceived, Cakrasamvara usually holds his hands in *prajňālinganābhinaya*, embracing his virtual consort. The Samvara of Phimai's temple, however, has a special wrist touching *mudrā* [Figure 14b] which is very rare; it only appears once more in a pedestal at Banteay Samre. In the Indian tradition there are two-, six- and twelve-armed versions of Cakrasamvara (like the one in the Poipet mould). Only the Phimai version has eight arms and holds the split elephant hide with the remaining six arms. One textual variant interprets the split elephant hide as a symbol for "the splitting of illusions," or a liberation from the illusionary world that keeps non-enlightened people in bondage (Dawa-Samdup 1919: 19).

In his study of the development of tantric iconography, Robert Linrothe (1999) has proposed a three phase scheme to distinguish between several generations of tantric deities. In the first phase, Buddhist deities are accompanied by angry deities or krodha which are in a subservient role. In the second phase, angry deities play an important role, but are not central to a tantra or a mandala. In the third phase, these deities have their own mandala and tantras. Linrothe suggests that Trailokyavijava and the wrathful Vajrapāni are tantric deities of the second phase out of which the deities of the third phase, Cakrasamvara and Hevaira, developed. According to this author, Cakrasamvara appears in India just as Trailokyavijaya disappears. The former has so much in common with the latter that he may be considered "a phase three reincarnation of Trailokyavijaya" (Linrothe 1999: 278). One of the CS's most powerful mantras is the Trailokyavijayamantra. It is called the "universal king of spells (vidvārājacakravartī)" (Gray 2007: 295). This shows how intimately connected the two deities still are in the CS. At Prasat Hin Phimai, Trailokyavijaya and Vajrapāni play a subordinate role in relation to Cakrasamvara, who dwells in the centre of the temple - they both have a place in the southern quarter of a possible mandala.<sup>9</sup>

In addition to the five central lintels, all found *in situ*, there are several lintels with related subjects still laying on the ground in the temple area. More lintels presenting Buddhist subjects are on display in the Phimai National Museum.<sup>10</sup> Some lintels feature rows of crowned teaching Buddhas in double *vitarkamudrā* and *yoginīs*, some just display dancing *yoginīs*, and some just depict standing crowned Buddhas.

Pia Conti

## A New Interpretation of the Two Inner Lintels

Cakrasamvara is the main protagonist of the CS and other texts which together form the Cakrasamvara tradition. The tantra refers to itself as the "Great King of Yoginī Tantras, called the Śrī Cakrasamvara (*śricakrasamvaranāmāmahāyoginītantrarāja*)" (Gray 2007: 4). This tantra was very popular in India from the late tenth through late thirteenth century, thus during the time Prasat Hin Phimai was built. Together with the HT, it is the most important "mother tantra" emphasising female deities.

What does *samvara* mean in Sanskrit? Snellgrove (2004: 152) takes the term to mean a "vow or a bond." Shinichi Tsuda (1974: 55) interprets it as "union of aspects of the world fused into one." Linrothe (1999: 278) proposes "supreme bliss." The different translations of the name stem from a variant in spelling as Snellgrove (2004: 152) explains:

Sambara and samvara represent the same name in Sanskrit with slightly variant spellings, but the second spelling happens to be identical with the word meaning a vow or a bond. Thus the Tibetans translated them differently: Sambara as bDe-mchog, "Supreme Bliss," which is how they interpret this name, whatever the spelling, and Samvara as sDom-pa, understood as "binding" or "union." The compound name, Cakrasamvara, is thus interpreted as the "union of the wheel of the elements" explained in various ways, but suggesting in every case the blissful state of perfect wisdom.

In his recent translation of the tantra, Gray (2007: 36) suggests *cakrasamvara* should best be translated as the "binding of the wheels," or the "binding of the  $d\bar{a}kin\bar{i}$  network."

The Cakrasamvaramandala consists of the main deity Cakrasamvara and three wheels of *yoginis* or *dākīnis*, eight to each circle. The *mandala* is called the "triple wheel" (Gray 2007: 179). To the wheels of the mandala, three dimensions of human experience are assigned. The first wheel is called the "body wheel," the second the "speech wheel," and the third the "mind wheel." The tantra uses the expression "body, speech and mind" to symbolise the three essential dimensions of a human being. "Body, speech and mind," in Sanskrit kāyavākcittā, is an expression widely used in all kinds of Buddhist texts for the three-fold human experience, but also for the experience of Buddhahood. The idea behind this formulation is to transform human experience into an experience of transcendence and unity, into the Buddha's body, speech and mind. In CS, the yoginis stand precisely for the idea of transformation of the human experience into Buddha experience, in other words for the path to enlightenment. On the northern and southern lintels of the inner sanctuary as well as on lintels found in various locations at Prasat Hin Phimai, the *yoginis* are very prominent. Phimai is the first place where yoginis appear in stone in the history of Buddhism in Cambodia and Thailand, and they appear together with Samvara. Parallel to the depiction of *yoginis* in Phimai's temple, we have the set of *yoginī* bronze sculptures as well as the bronze Hevajra in Baphuon style (mid-eleventh century) which Boeles (1966: pl. 5) discussed. The presence of both the bronze sculpture of Hevajra and the stone representation of Cakrasamvara indicates that both the HT and the CS must have had some followers in the eleventh century; and it shows that at Prasat Hin Phimai the latter was given precedence over the former. The *yoginīs* will play an important part again under Jayavarman VII, whose preference for the HT is well documented (Woodward 1981). Several bronze Hevajra images and several *Hevajramandalas*, in two or three dimensions, show Hevajra surrounded by his eight *yoginīs* (Boeles 1966: pl. 4; Dalsheimer 2001: 269).

The GST does not refer to *yoginīs*, though it features female consorts. It is thought to be earlier than the CS and the concept of the *yoginīs* had not yet been developed. However, the GST expresses a similar idea of unity using different metaphors. *Gulyasamāja* can be translated simply as the "secret union," but the full title of the tantra is according to its translator, "The Union [or Assembly] of the secret Body, Speech and Mind of all Tathāgatas." Fremantle (1971: 15) explains:

Body, speech and mind together comprise the total activity and experience of a living being; the body alone may be interpreted as the material form *nirmānakāya*, while speech and mind represent the spiritual and absolute natures, *sambhogakāya* and *dharmakāya*.

The concept of *kāyavākcittā* (body, speech and mind) is used many times in the tantra. Its main mantra is *om sarvatathāgatakāyavākcittavajrasvabhāvātmako'ham* which means "Om I am of the nature of the vajra of body, speech and mind of all Tathāgatas." This mantra expresses the wish of the tantric adept to become a Buddha.

In the GST, Aksobhya is "Vajra Mind," Vairocana is "Vajra Body," and Amitābha is "Vajra Speech." Vajrasattva, the sixth Buddha, or ground of all Buddhas, symbolises this unity of body, speech and mind. Vajrasattva's name varies according to his function. According to Chirapat (1990), Vajrasattva may be called "Sarvatahāgatakāyavākcittavajra, or Sarvatathāgatakāyavākcittādhipati. He is also called Vajradhara, Mahāvajradhara, Vajrapāṇi, etc." The identity of *kāyavākcittā* with Vajrasattva is expressed in the first two names.

There are other concepts which connect the two tantras. Aksobhya in the GST and Samvara in the CS are both described as emanations of Vajrasattva. The two northern and eastern inner lintels at Prasat Hin Phimai would thus display two different emanations of Vajrasattva – one representing Aksobhya and the Jinas, peaceful forms of Vajrasattva, the other Cakrasamvara, an angry emanation of Vajrasattva. Though the lintels in Phimai appear to represent two different tantra traditions – the GST and the CS –, they are closely related in the idea of the union of all aspects of the world, the central idea of many tantric texts. This is the idea they express symbolically, either in the metaphor of emanation and fusion of Buddhas or Jinas in a transcendental Buddha, or through the unifying of all elements constituting human experience.

Chronologically speaking the CS tradition is slightly later than the GST tradition and may also have arrived on the Khorat Plateau a little later. The CS tradition sees itself as an extension of other tantras and as more powerful, in fact as "the most excellent, the highest of all the yogas, which can kill anyone, gods, titans and men" (Gray 2007: 176). The adept who masters the yoga of the CS will be invincible and cannot die of natural causes. The yoga of the CS is described as the most powerful yoga, because "everything, whatsoever, spoken or unspoken,

exists in Śrī Heruka" (Gray 2007: 177). The CS promotes itself as the latest tantric weapon. Using its yoga one will have the powers of being unhindered in the three worlds, of being invisible, and of travelling in the underworld. Its yoga would also give the powers of resurrection, flight and alchemy. The CS promises to be even more powerful than the previous tantras and provide even faster liberation. Seen from an internal Buddhist perspective, Prasat Hin Phimai seems to honour the deities of the latest, most powerful tantra from India at the time.

## Conclusion

The iconographic program of Prasat Hin Phimai builds partially on the tantric traditions of tenth century Cambodia, but not as much as one might expect, given that Phimai is situated along the important trade route between Angkor and the western frontiers of the Khmer empire. Deities such as Vajrin/Vajrapāṇi, Trailokyavijaya and the *nāga*enthroned Buddha are present and play a substantial role in Phimai. Others, such as Avalokiteśvara and Prajñāpāramitā, do not appear yet at Prasat Hin Phimai, but become important again eighty years later.

The Buddhist tradition from the Khmer heartland is complemented by the presence of deities invoked in the Sap Bak inscription which celebrates the powers of the linas. Vairasattya and Srī Samāja. In addition, it is argued that at Phimai a new tantra was introduced, the Cakrasamvaratantra with its main deity Samvara and its wheels of dancing *yoginīs*. In my reading, the deities Cakrasamvara and Aksobhya (Śrī Samāja) and their entourage of male and female deities embody two different aspects of a central idea celebrated in the tantras: the unity of body, speech and mind and the transformation of human fragmentation into Buddhahood. Whereas the *Guhyasamājatantra* and the Cakrasamvaratantra do not seem to have had many followers among later Khmer Buddhist generations, the Hevajratantra, another, later, "mother tantra" in which *yoginis* also play an important role, will be taken up by the Khmer's most renowned Buddhist king, Jayavarman VII. The latter showed his appreciation for Prasat Hin Phimai and his ancestor Jayavarman VI by erecting two side shrines within Phimai's temple first enclosure ground and a "hospital" chapel outside the city walls. One of the side-shrines, the so-called Prang Brahmadatta, featured his and his wife's portrait (Multzer o'Naghten, this volume).

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## Abbreviations to Sanskrit Texts

CS	Cakrasamvaratantra
GST	Guhyasamājatantra
HT	Hevajratantra
STTS	Tathāgatatattvasamgrahanāmamahāyānasūtra

## Appendix 1: Sap Bak Inscription (K. 1158) Translation from Sanskrit by Tadeusz Skorupski Based on Julia Estève's Transliteration (2009: 541-542)

 In the first instance, the glorious five Sugatas are the originators of the Śrīghanas, and the Śrīghanas of the excellent gods. I bow to them, the givers of glory.

(Alternatively: Primordially, the glorious five Sugatas are the originators of the glorious bodies, and the glorious bodies of the excellent gods. I bow to them, the givers of glory.)

- 2. But Vajrasattva is the sixth (as) the pre-eminent lord of the existing Bodhisattvas, (and) the repository (or foundation) of all the Buddhas. I bow to him for the sake of deliverance.
- In all my existences, may I become a servant of the servant who has supreme devotion and stainless faith in the glorious Samāja.
- 4. Having thus heard the command of the supreme guru, I respect it with praises, (and) having repeated it with devotion, I always pay homage to the glorious Samāja.
- 5. The region originally called Jayantrapura and afterwards Chpārransī, it is there that the protector Śrī Samantaprabheśvara has stayed (or resided).
- 6. He indeed, having appeased the fear (apprehension) of the Buddhists, has made firm the Buddha's dispensation in Kambuja down to the present time. I bow to him again and again.
- The venerable Cuivi, delightful in manners, pure, accomplished in many activities, blameless in speech, eloquent and pious, is supreme in recitation and devotion to the Jina(s) [= Buddha(s)].
- 8. The venerable Campakapāda, devoted to his teacher's feet, respected by the *siddhas*, (and) the teacher in Chpārransī, has passed into

#### Endnotes

1 The term *nāga*-enthroned (instead of the usual *nāga*-protected) Buddha dissociates the icon from the Mucalinda myth which plays a significant role in Theravāda Buddhism, but does not seem to play a role in Mahāyānist Buddhist societies appeasement (tranquillity, *sama*) in the region of Sthalāsvāy.

- 9. Pious and steadfast, the venerable Dharaṇīndrapura, having adorned the base (*aṅghrir alaṃkṛtavān?*), and having enriched the wise (or firm) ones with fine treasures, has settled his pure heart in enlightenment.
- 10. Having traversed the ocean by way of the perfection of wisdom, the commentaries on logic and the rest, those calmed ones (*śrānta*) have reached the fruit of reality under the secret tree.
- The one called Vrah Dhanus, steadfast, intelligent, and student of the established doctrine, constantly and joyfully venerates the triple gurus of the three gurus.
- 12. (With his) mind inflamed with the sparks of the Kāśikā, poetry and other outer (compositions), since a long time he sips the secret elixir, (and is) intent on the sap of fire oblations, recitations, and yoga.
- 13. In the year 988 [saka = 1066 CE], on the seventh day of the bright fortnight of the month of Tapasya, this learned Vrah Dhanus is the one who has installed the Sugata and other images in Tenpāsnaga, the fortunate and excellent pilgrimage place (tīrtha).
- 14. Śrī, Śakti, Kīrtti, Devendra and many more, through them I have realised and personally grasped something about the destruction in this world and indeed in the other world.
- 15. If I have the fruit of my merit, (it is my) swift rebirth in Kambuja, but we work here for the sake of the deity through the deliberation of Sāmāja, not for anything else. Moreover, there are other aspirations, not just one.

(Sharrock 2011). Furthermore, the term *nāga*enthroned Buddha seems to convey more powerfully the acquisition of the transcendent status which the Buddha gained in Mahāyāna and tantric belief systems.

- 2 Arlo Griffiths (2013: 72-75) has recently proposed to identify our "Satyavarman" of K. 1158 as King Satyavarman of Pāņḍuranga in Campā. This Satyavarman reigned in the last quarter of the eighth century CE.
- 3 Griffiths (2013: 75) also proposed that the "Abhayagiri" of K. 1158 may be identified as "Ratu Baka hillock" in central Java. It seems to me, however, that the field of references in the inscription is local. The lineage of the three tantric gurus which are mentioned in the Sanskrit part is a local lineage, with possible connections to a region near Angkor. Moreover, Dhanus identifies "Kambuja" as the land in which the Buddhists work for their liberation (cf. verse 15). An overseas location for their sacred *tirtha*, or place of pilgrimage, seems unlikely, since it would imply that several tantric Buddhists travelled repeatedly from Khorat or Angkor to Java during three centuries to keep up images placed in a holy place there.
- 4 The ground plans, cross-sections and an excellent description of the achitectural history of Prasat Hin Phimai are given by Pierre Pichard (1976).
- 5 Hiram Woodward (2003: 151) has proposed that the four central lintels represent the four bodies of Māra. This interpretation is grounded on his reading of inscription K. 953 found at Phimai and dated to 1041 CE in which the four bodies Māra are mentioned. Woodward's proposal is highly speculative and relies on a complex web of possible associations which seem to me too tendentious to work.
- 6 Most of the lintels and pediments on the outside of Prasat Hin Phimai represent Brahmanical topics. Many pediments and lintels feature scenes from the *Rāmāyaņa*. There does not seem to be a general tenor to the chosen scenes. The most common denominator I could find is the representation of a fight between just and unjust causes. Boreth Ly (2007: 35) reads the pediments

eads the pediments the temple, can be found elsewhere in the temple.

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and lintels surrounding the central sanctuary

providing a political and apotropaic function.

(1975: 21), Vairocana in the Vajradhātumandala

may have a rosary, but not his three-headed

9 Many thanks to Hiram Woodward for pointing

out that two of the wrathful deities at Prasat

Hin Phimai (Vajrapāņi and Trailokyavijaya)

a location traditionally assigned to krodha, as,

are located in the southern part of the mandala,

for example in the esoteric mahākarunagarbha of

Japan. If the temple indeed represents a three

dimensional *mandala*, the southern position of

the krodhas may go some way in explaining the

do. Woodward (2003: 148) reads Vajrapāni as

representing Vajrasattva in his secondary role

10 I have been trying to find an excavation report

showing where the lintels which were not in

*situ* were found exactly, but have as yet been

unsuccessful. The closest to a report is Dagens'

(1995) paper where he gives an inventory list of

lintels found in situ and scattered on the ground.

of where they were found and a description of

their likely content. Dagens is also not entirely

outer structures, since at the time he went to

layout of the central group, where the non-

sure where the various lintels were located on the

Phimai many were still broken and scattered on

the ground. Dagens concluded his research stating

that it is not possible to say whether the particular

Buddhist themes surround the Buddhist ones inside

With many lintels, he gives only a vague indication

esoteric Japanese mandalas.

as one of the sixteen vajra beings represented in

orientation of Prasat Hin Phimai. The temple is

facing south and not east, as most Khmer temples

8 For a schematic representation of the Poipet

mould, see Woodward (1981: 61).

7 According to Marie-Thérèse de Mallmann

and six-armed form.

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Figure 1: Mueang Sing, Kanchanaburi province, west side [Photograph by Hedwige Multzer o'Naghten].

# The Organisation of Space in Pre-modern Thailand under Jayavarman VII

Hedwige Multzer o'Naghten

## Introduction

ver a century of Southeast Asian studies has highlighted the importance attached by Khmer people to certain territories located in present-day Thailand. In Isan, that is northeast Thailand, the Khmer presence seems to be attested from the late sixth century, according to the most ancient inscriptions,<sup>1</sup> and then weakened until the tenth century during which the construction of temples intensifies sharply, a sign of a more constant occupation of this region. Outside of Isan, there are others, albeit episodic, Khmer ruins in the Chao Phraya river basin or in Lop Buri, Prachin Buri, Sa Kaeo and Kanchanaburi provinces (Smitthi et al. 1992). Obviously, following the territorial logic, Khmer rulers were mainly interested in the regions bordering their kingdoms, located north of the Dangrek range and west of Angkor. But at the end of the twelfth century, during King Jayavarman VII's reign (ca 1182-1219/1220), the situation evolved differently as evidenced by the archaeological material of his time found in various places, sometimes at considerable distance from each other, delimiting a wide sphere of influence. Being more than just the single expression of a hegemonic will, these remains draw an archaeological map which may also reflect the king's political and religious orientations implemented in land use planning.<sup>2</sup>

# Jayavarman VII's Presence in Pre-modern Thailand: Archaeological Remains

In present-day Thailand, archaeological remains dating from Jayavarman VII's reign have been found in significant quantities. They demonstrate the concrete presence of the Khmer king, not only in Isan as often pointed out, but also in other parts of the country. The stylistic architectural or iconographic specificities that characterise the art and the production of this period, known as "Bayon style," give it a remarkable originality (Boisselier 1974). They all represent strong criteria for identifying monuments as well as sculptures with the margin of error being low.

## The Monuments

The most visible traces of the Khmer presence in pre-modern Thailand lie in the monuments built during Jayavarman VII's reign. These are mainly located in the western, central and northeastern parts of the country. The temple or *prasat* of Mueang Sing **[Figure 1]**, in

Figure 2: Phra Prang Sam Yot, Lop Buri province [Photograph by Hedwige Multzer o'Naghten].



Kanchanaburi province, and Wat Kamphaeng Laeng in Phetchaburi province, mark the empire's western confines.<sup>3</sup> Not far from there, the ancient city of Ratchaburi was probably the location of a monument of the same era which is now in the premises of Wat Mahathat. In the central region, the ancient cities of Lop Buri and Sukhothai also housed Jayavarman VII's temples such as Phra Prang Sam Yot [Figure 2] in Lop Buri, Wat Phra Phai Luang [Figure 3] and Wat Si Sawai [Figure 4] in Sukhothai. Apparently unfinished, the temples of Mueang Sing, Wat Kamphaeng Laeng and Phra Prang Sam Yot belong most likely to the "Bayon style," according to their still evident architectural features. As for the other temples, it is less visible due

Figure 3: Wat Phra Phai Luang, Sukhothai province [Photograph courtesy of Pierre Pichard, 1980].



to a late and continuous occupation and the adoption of Theravāda Buddhism as seen at Wat Mahathat in Ratchaburi where only a few original vestiges of the Khmer period remain. Most of these sites, however, offer an architectural composition relatively common in Thailand, centred on an alignment of three towers. Only the temple of Mueang Sing (Suriyavudh 2526a and 2526b), which appears to be the most important of Jayavarman VII's projects in pre-modern Thailand, adopted the more usual Khmer temple layout, consisting of a central tower and another structure often designated as a "library" surrounded by two enclosures.

In the northeast, the majority of buildings located on the Khorat Plateau present some radically different architectural characteristics. These buildings are mostly so-called "repetitive" foundations which owe their name to their architectural composition reproduced identically all over the kingdom, making their identification easy. They are divided in two categories: chapels of hospitals ( $\bar{a}rogyas\bar{a}la$ ) and "houses of Fire" (valnigrha), the construction of which, according to the Ta Prohm (Cædès 1906: 66, 80) and Preah Khan (Cædès 1941: 280, 297) inscriptions of Angkor, was planned in large quantities<sup>4</sup> throughout the kingdom, that is to say the area of present day Cambodia, part of Thailand, southern Laos and southern Vietnam.

The hospital chapel's plan conforms to the ordinary layout of the small classical Khmer temple, comprising a central tower with attached vestibule facing east and a so-called "library" in the southeastern section inside an enclosure with an eastern entrance pavilion, and very often a basin in the northeast, but outside the compound (Cœdès 1940) [e.g. Figure 5]. This peculiar layout enabled George Codes to identify fourteen such structures according to the descriptions provided by Lunet de Lajonquière (1907), seven more were later acknowledged and published by Bruno Dagens (1993), five more by Bruno Bruguier,<sup>5</sup> and five additional ones by a Thai archaeologist (Rungrot 2547: 51-52).<sup>6</sup> Moreover, in Prachin Buri province, the site of Ban Khok Pip or Prasat Sa Morakot revealed architectural remains and a sandstone pedestal for three idols that suits perfectly with the worship of a certain Buddhist triad at hospital chapels (Boisselier 1969: 56-57). It would seem possible to complete this list with other monuments which undeniably have the same typical composition like Prasat Ban Noi (Sa Kaeo province, Cisark no. 7656), as pointed out by Asger Mollerup recently (2012: 67). All together, about thirty-two such hospital chapels in pre-modern Thailand have been securely identified to date [Map 1; Appendix 1].

The other series of "repetitive" buildings, namely the "houses of Fire," often wrongly called *dharmaśālā* or "religious resting house" due to their position along axes of communication, have been discovered mostly between Angkor and Phimai (Lunet de Lajonquière 1902: L). They were designed as a single laterite building divided into three consecutive parts: a vestibule facing east, followed by a long central hall leading to a tower with a door opening on the west side. They all display unusual architectural features like the presence of windows only on the southern side or the tower communicating directly with the central hall



Figure 4: Wat Si Sawai, Sukhothai province [Photograph by Hedwige Multzer o'Naghten].



Figure 5: Hospital chapel, Prasat Ta Muean Tot, Surin province [Photograph by Hedwige Multzer o'Naghten].



Figure 6: "House of Fire," Prasat Ta Muean, Surin province [Photograph by Hedwige Multzer o'Naghten].

through a wide and high opening framed by two pilasters instead of the usual narrow door of the Khmer *cella* [e.g. Figure 6].

About eight of them have been discovered in Isan so far, but, according to the Preah Khan stele (Cœdès 1941: 279, 296), there was another one at Phimai which has not yet been found [Map 1; Appendix 2]. Moreover, at the ancient city Kosinarai, near Nakhon Pathom, the clearing of a site brought to light one Avalokiteśvara and a "Bayon style" monument identified by Jean Boisselier as a "house of Fire" (1972: 42) [Map 2].

In Isan again, the construction of laterite towers, placed on both sides of the *mandapa* attached to the central tower of Prasat Hin Phimai **[Figure 7]**, also dates from Jayavarman VII's reign, as well as the third enclosure wall and its laterite entrance pavilions (Pichard 1976: 3-4). The attribution to the same period of an unfinished laterite tower covered up by the Prasat Wat Phra That, in the vicinity of Phra That Phanom in Nakhon Phanom province, appears much less certain (Boisselier 1965: 139).



Map 1: Archaeological sites and remains in northeast Thailand during Jayavarman VII's reign [Drawing courtesy of Nicolas Revire and Pierre Pichard].

## The Inscriptions



Figure 7: Prang Brahmadatta, Prasat Hin Phimai, Nakhon Ratchasima province [Photograph by Hedwige Multzer o'Naghten]. Compared to the numerous monuments, inscriptions from the time of Javavarman VII discovered in Thailand to this day are much rarer. They are basically of two types: on the one hand, approximately twelve hospital edicts<sup>7</sup> recording the installation of Bhaisajyaguru, the Medicine Buddha, and his Bodhisattva assistants -Sūrvavairocana ("Sunlight") and Candravairocana ("Moonlight") –, and at the same time specifying the institution's rules [Appendix 3; e.g. Figure 8]; on the other hand, about eight dedications engraved on cult objects such as conches, bowls and vases offered to deities. For example, site no. 11 at Ban Khok Pip in Prachin Buri province, excavated by Boisselier (1972: 46-48), has provided five inscribed bronze objects.8 Two of these (K. 1052 and K. 1056) give the names of two hospitals, Avadhyapura and Samvok, one of which should stand exactly on the site of the excavation. In addition, one support of a mirror (K. 973; Cœdès 1937-66: VII. 154) was found in the hospital chapel at Prasat Khok Ngiu (Buri Ram province) and two tripod vases were discovered at Wat Ban Na Sam (Surin province). One of these tripods is

dated 1123 *saka* (1201 CE) and is probably related to a "house of Fire" named Thmo Yol (Cœdès 1937-66: VII, 155). Except for the conch from Ban Khok Pip (K. 1053) and one of the two vases mentioned above (K. 974) which can be similarly paleographically dated to the "Bayon period," all these objects carry a date from Jayavarman's reign and some of them are even king's donations (Boisselier 1972: 46-48).<sup>9</sup>

Most of these inscriptions or inscribed objects have been found on sites set up by Jayavarman VII. In some cases, however, such as at Prasat Phanom Wan, in Nakhon Ratchasima province, only a fragment of a hospital stele remains, but there are no traces of an edifice. One can perhaps assume that, in ancient times, there was a hospital chapel near this temple.

Concurrently, inscriptions originating from major royal temples at Angkor mention the existence of several Jayavarman VII's foundations where the remains are of questionable attribution, and sometimes non-existent. The Preah Khan inscription (K. 908, stanzas 116-117), for example, assert that there was an image of Jayabuddhamahānātha in Lavodayapura, Jayarājapurī and Jayavajrapurī (Cœdès 1941: 280, 296; Jacques 2005: 13), which would presumably have been housed in the premises of Phra Prang Sam Yot (Lop Buri), Wat Mahathat (Ratchaburi) and Wat Kamphaeng Laeng (Phetchaburi). Similarly, a couple of small inscriptions from the Bayon (K. 293-3 and K. 293-6; Cœdès 1937-66: III, 194, 196) remind us of the Medicine Buddha's presence in Ratchaburi and Phetchaburi where, accordingly, a hospital chapel should have existed even though no trace can be found nowadays.

## The Sculptures

The "Bayon style" sculpture sheds a different light on this period because it gives evidence of another form of the ascendency of royal power related to the spreading of religious ideas. Its characteristics make it one of the most representative and relevant markers to this research. While perpetuating traditional aesthetics on Khmer sculpture, "Bayon art" undoubtedly brings a renewal of artistic expression. Besides its most famous expression of intense spirituality reflected by closed eyes and a barely sketched mystic smile, its anthropomorphic sculpture presents specific features, stylistic as well as iconographic, which make it genuinely unique. All the statues share the same stylistic characteristics, both anatomical and clothing.

Physically, anthropomorphic images show an anatomy that is very realistic and closer to the human model, especially in the body's modeling which is softer and more rounded where the musculature is discretely suggested. The male images perfectly illustrate this trend: a fleshier bust, a wide neck and legs often massive and heavy, making a thick silhouette and giving the impression of physical power. In contrast, female images adopt a face close to skinniness, a very frail body and a narrow bust.

Generally, garments and ornaments are rather simple. The statues are clothed in a *sampot*, pleated and short for men, long and decorated with small flowers and a wide panel folded on the front for women, and attached by a wide belt made of small square plates adorned with flowers, a detail typical of this period. Even more characteristic is the chignon hairstyle consisting of parallel pigtails incised in crescent-shape. For men, the hairs are gathered in a *jațāmukuța*, a cylindrical or conical crown sometimes encircled at its base by a string of pearls. Women frequently wear a conical chignon-cover with four concentric rows of lotus petals.

According to the iconographic tradition, Buddha images of the "Bayon style" display some distinctive signs peculiar to the Blessed One, like hair treated in regular and stylised coiled curls or the cranial protuberance. This last feature can assume two different aspects under this style: high and pointed or slightly protruding, and can sometimes be covered by a simple *mukuta* adorned with lotus petals.

If the Buddha seated on the coils of a snake (i.e, *nāga*-Buddha; see also Conti, this volume) was indubitably the main icon of this reign **[e.g. Figures 9-10]**, representations of Lokeśvara, another name for the Bodhisattva Avalokiteśvara, were also found in great number. Most of them opt for the common form with one head wearing a small seated Amitābha Buddha on the front of the chignon, and four arms holding the traditional attributes, that is to say, a lotus bud on the lower right hand and a rosary on the upper right hand, and on the left side, a flask and a book on the lower and upper hands respectively **[e.g. Figure 11]**. Concurrently, Prajñāpāramitā was elevated to the rank of highest deity alongside the Buddha and Lokeśvara. For the first time in Cambodia, she was carved in free-standing life-size sandstone sculptures, with two arms borrowing attributes from the two Indian goddesses, Prajñāpāramitā and Tārā, who commonly hold the book for the former and the lotus for the latter **[e.g. Figure 12]**.



Figure 8: Hospital edict, from Ku Khanthanam, Roi Et province, Roi Et National Museum [Photograph courtesy of Nicolas Revire]. But the most striking facet of "Bayon art" lies in original creations, purely Khmer and hitherto unknown in India, partly due to the adoption of Mahāyāna Buddhism as the official religion. Indeed, new iconographic types such as Lokeśvara under his "radiating" aspect illustrating one Buddha emerging from each pore of the Bodhisattva<sup>10</sup> [e.g. Figure 13], or seated leaning against a stele [e.g. Figure 14], as well as the so-called "Vajradhara" [e.g. Figure 15] who actually would be none other than Bhaiṣajyaguru, the Medicine Buddha (Woodward 2011), can be associated only to Jayavarman VII's reign. Even more so, the portrait-statues of the sovereign and his queen, discovered at Prasat Hin Phimai, symbolise the supremacy of royal power (Cœdès 1960: 184, 193) [Figures 16 and 17].

The identification of these images poses little difficulty insofar as they follow accurately their own iconographic codes. The particularity of the "radiating" eight-armed standing Lokesvara is expressed by the physical appearance of the body, covered with a myriad of small Buddhas seated in meditation (samādhimudrā) and distributed on the torso, the hair, around the wrists and ankles as well as the fingers and toes. Equally new in Khmer art, Avalokiteśvara appears now in a seated posture. As usual, he wears a tiny Amitābha Buddha on the front of his chignon, sometimes worn away. He often bears no adornment, except earrings, and has four arms. The upper hands hold the rosary on the right side and the flask on the left one. The lower hands, as can be observed on different well-preserved pieces, held a small round object in the palm of the right hand, sometimes identified as the jewel, and in the left hand, a more or less stylised fly-whisk. As for "Vajradhara," alias Bhaisaiyaguru (Woodward 2011), holding a vajrā in the left hand and a bell in the right one, he is always seated crossed-legs.

Almost all of the "Bayon style" sculptures found within the presentday Thai territory come from temples built by Jayavarman VII or sites reoccupied by him **[Map 2]**. Outside of Cambodia, Phimai and Mueang Sing (Suriyavudh 2526a: 103) house the largest concentration of Buddhist statues of this art-period. Unsurprisingly, we find there again

Left Figure 9: Nāga-Buddha, Lop Buri National Museum [Photograph by Hedwige Multzer o'Naghten].

**Right Figure 10:** Naga-Buddha, from the main shrine of Prasat Hin Phimai, Nakhon Ratchasima province, Phimai National Museum [Photograph courtesy of Nicolas Revire].



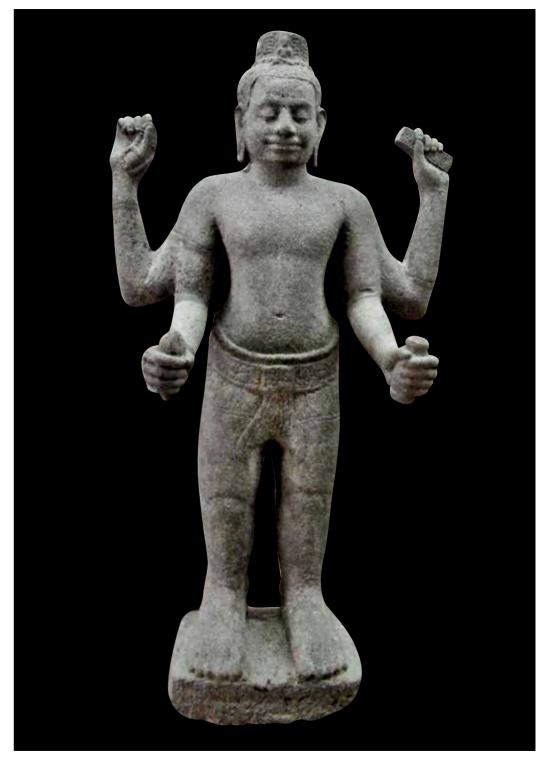


Figure 11: Four-armed standing Lokeśvara, from Prasat Nang Ram, Nakhon Ratchasima province, Phimai National Museum [Photograph courtesy of Nicolas Revire].

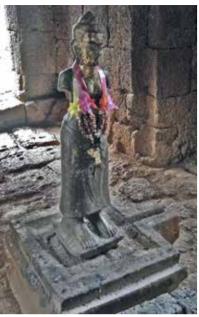


Figure 12: Two-armed standing Prajñāpāramitā (replica in situ), from Mueang Sing, Kanchanaburi province [Photograph courtesy of Nicolas Revire].

Figure 13: Eight-armed "radiating" Lokeśvara (replica in situ), from Mueang Sing, Kanchanaburi province [Photograph by Hedwige Multzer o'Naghten].



an iconographic program gathering three major figures of Mahāyāna Buddhism, that is, the *nāga*-Buddha, the Bodhisattva Avalokiteśvara and the Goddess Prajňāpāramitā who form the sovereign's favourite triad. But certain other representations of deities, also in favour during the reign, have been found in smaller quantities, like "Vajradhara," or the Medicine Buddha in hospital chapels. In contrast, small Buddhist triads **[e.g. Figure 18]**, or steles carved with four-armed seated Lokeśvara were plentiful. All of these sculptures are particularly representative of that period.

Overall, the abundance of archaeological remains from Jayavarman VII's reign, discovered in pre-modern Thailand, certifies a wellestablished Khmer presence from the late twelfth century to the early thirteenth century. It also reflects the major position of these regions in the imperial sphere of Jayavarman VII as well as their prominent role in his territorial policy.

## Jayavarman VII's Royal Policies in Pre-modern Thailand and Land Use Planning

There are different ways to show that a territory is under a sovereign's authority, or in his dependence, and to mark thus the extent of his empire. Inscriptions, sculptures, and monuments, Jayavarman VII has used all these devices to append his own print on the surface of his kingdom. Their locations enable us to not only trace the theoretical limits of his power, but also to constitute the framework of an archaeological map revealing the fundamental choices that have shaped it.

## Archaeological Remains as Territory Markers

The distribution of archaeological remains found *in situ* in Thailand reveals a high density in some specific geographical areas such as the Khorat Plateau, as well as the valleys of the Chao Phraya river in the central region and the Mae Klong river in the western region.

The establishment of Jayavarman VII's foundations was developed depending on two radically different approaches of spatial organisation; in Isan, one can note a high concentration of at least forty monuments. all "repetitive" - approximately thirty-two hospitals and eight "houses of Fire" -, on the latest account, all distributed along the Dangrek range and between the arms of the Mun and Chi rivers as far north as modern Udon Thani [Map 1]. Conversely, in the western and central regions, sites are spaced out from south to north, along different river valleys, the Khwae Noi river on the western frontier (Mueang Sing), the Mae Klong river (Ratchaburi and Phetchaburi), the Bang Pakong river (Ban Khok Pip or Prasat Sa Morakot) and the Chao Phraya river as well as its tributary rivers in the North (Lop Buri and up to Sukhothai) [Map 2]. Obviously, this geographical layout can be partially explained by the geomorphologic configuration of these spaces, focused on river basins and compartmentalised by mountain ranges, however, it also seems to correspond to the former settlements from the time of Dvāravatī.

The circulation between central and northeast Thailand, two neighbouring regions separated by the Dong Phaya Yen chain, was achieved by roads and waterways, both known since ancient times. The Figure 17: Queen's portrait-statue, from Prasat Hin Phimai, Phimai National Museum [Photograph courtesy of

Nicolas Revire].



Figure 14: Stele of

Four-armed seated

Lokeśvara found at

Ku Phon Rakhang.

Roi Et province. Roi

Et National Museum Photograph courtesy of

Nicolas Revire].

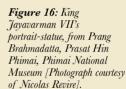


Figure 18: Stone stele of Buddhist triad, Phimai National Museum [Photograph courtesy of Nicolas Revire].





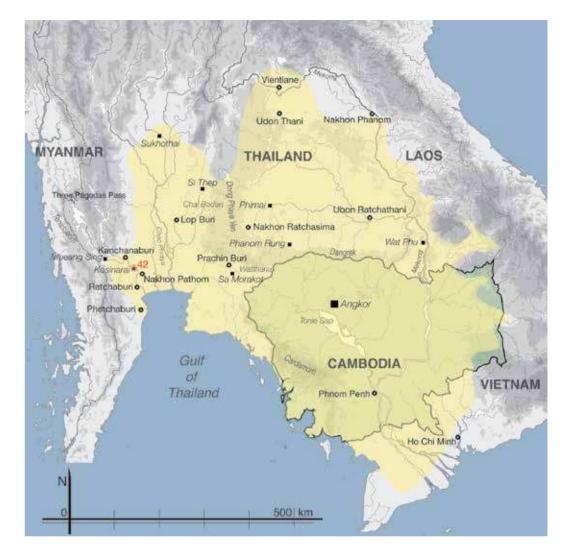
Figure 15: Medicine Buddha (formerly identified as Vajradhara), from Prasat Nang Ram, Nakhon Ratchasima province, Phimai National Museum [Photograph courtesy of Nicolas Revire].

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layout of several main roads, portions of which are still known and used today, can be retraced from abandoned paths or tracks that linked ancient occupation sites (Boisselier 1965: 136). It is thus possible to ascertain that some of these transversal axes were connected, from west to east, with the major centres of the kingdom of Javavarman VII. In its western part, most of them date from the Dvāravatī culture, whose settlements were established by the middle of the first millennium of the Common Era along the Chao Phrava river and its tributaries, as well as in the basin of the Mun river. They all offer the connection between the Gulf of Muttama (Martaban) and the Indian Ocean, and inland through the Tenasserim chain and its more common passes. The famous Three Pagodas Pass, which leads to the valleys of the two Khwae rivers, provides access to Kanchanaburi as a starting point of a body of roads. One of these roads descends to the south towards Ratchaburi and Phetchaburi and up to the modern Gulf of Thailand. Another one, through U Thong, runs eastward towards Lop Buri which is the link between western and eastern parts of the Chao Phraya river basin (Boisselier 1965: 145). Nearby Lop Buri, traces of ancient roads led probably to the north and the modern city of Nakhon Sawan, while other roads brought directly to the Khorat Plateau. They apparently led up to present-day Khon Kaen by crossing the Dong Phaya Yen chain or passing through Si Thep which ensured the transition between the Pasak river valley and the Mun river through the Chai Badan threshold [Map 2]. Further south, Jean Boisselier (1965: 145) also noticed the existence of age-old paths between U Thong and the Bang Pakong river valley, where Ban Khok Pip is located, landmarked by a large number of ancient sites like Prasat Sa Morakot, Dong Si Mahosot and Mueang Phra Rot on the east bank of the river (Prachin Buri province) or Mueang Phra Rot II on the west shore (Chon Buri province). This valley leads without obstruction to the Tonle Sap basin. The remains of a road, perhaps unfinished, from Watthana to Angkor, seem to come from the Gulf of Thailand (Geiringer 1891: 28; Lunet de Lajonquière 1909: 244).

All these territories, whether in central or northeast Thailand, were connected to the Angkorian capital by a few crossing points. For example, the Watthana threshold in the Aranyaprathet plain, between the Dangrek's western end and the Cardamom mountain's northern tip, gives access to the Great Lake (Tonle Sap) of present-day Cambodia, while communication with the Khorat Plateau occurs through a series of passes spaced out on the Dangrek's cliff tops (Aymonier 1901: 112, 192, 224, 304). It should also be noted that, at the end of the twelfth century, the Angkorian central authority extended to most parts of what is today Thailand, maintaining control over one of the largest hydrographic systems of mainland Southeast Asia, that of the Chao Phraya river, and, via the Mun river basin, that of the Mekong's river system, but also over most of the arable land and a huge operational network of riverine and overland communications routes (Hendrickson 2010; Multzer o'Naghten 2011: 134-137, 139-141, 167).

Finally, the location of archaeological remains in Thailand reveals regional disparities, emphasising the importance of certain areas whose development certainly meets the projection and implementation of different choices made by the king and very often situated on ancient settlements. This clear organisation leads us to question the king's



principles of management in foreign lands. Besides a likely expansionist policy, the historical factor, in addition to the king's religious beliefs and the economic requirements – rarely mentioned in previous Khmer studies –, have obviously played a role in the territorial planning of the Khmer kingdom. Map 2: Greatest extent of the Khmer empire during Jayavarman VII's rule [Drawing courtesy of Nicolas Revire and Pierre Pichard].

## Socio-political Analysis and Land Use Planning

Since the eleventh century, the Chao Phraya river basin, and for even longer, the Khorat Plateau, have been in the territorial expansion sphere of Khmer power. Jayavarman VII's policy in ancient Thailand was in historical continuity with the previous Khmer rulers. He reinforced the domination upon this region, consolidated it in the north, and extended it in the west almost as far as the present-day Myanmar border, nearby which he probably built the temple of Mueang Sing. In Isan, Jayavarman VII established foundations on or near sites created or honoured by members of his paternal lineage who were all kings in Angkor, namely Jayavarman VI (r. 1080-1107), Dharaṇīndravarman I (r. 1107- ca 1113) and Sūryavarman II (r. 1113ca 1150). It seems that the location of his temples was chosen in relation to former foundations of these previous kings, especially on a route leading from Angkor to the Khorat Plateau. At Prasat Phanom Wan, where a Jayavarman VI edict is inscribed (K. 391) on a central tower's door jamb (Cœdès 1937-66: VI, 297-299), a fragment of a hospital stele (K. 395) has been found (Cœdès 1940: 344), and at Phanom Rung, where a stele (K. 384) gives the genealogical origins of the three sovereigns (Cœdès 1937-66: V, 297-305), Jayavarman VII planned a hospital chapel (Kuti Ruesi Nong Bua Lai/Rai). Along the road leading from Angkor to Phimai, the king ordered the building of "houses of Fire," and notably also between Ta Muean Thom and Prasat Hin Phimai.

By appropriating these sites, Jayavarman VII presented himself as the direct heir of the kings of Angkor stressing the "dynastic" link with kings who appear in his genealogy, justifying on the one hand, his domination over these lands, and on the other hand, his legitimacy to the throne. However, the high archaeological density in Isan also reflects another reality, that of a developing region. Concurrent to the roads and the hydrological works, the two main networks of monuments, hospitals and "houses of Fire," sometimes presented as institutions of "public utility," give evidence of the existence of a dynamic and densely populated environment. Indeed, the construction of hospitals is easily explained by the social necessities imposed by the presence of more or less developed cities, while the "houses of Fire," known as landmarks on the roads leading to the capital, suggest the existence of active commercial and human traffic.

The exceptional concentration of hospitals located throughout Isan, - around thirty-two out of the one hundred and two mentioned in the Ta Prohm stele (Cœdès 1906: 66, 80) -, reflects the vitality of this region, inhabited since prehistoric times. Indeed, most of Jayavarman VII's hospitals fit into a landscape already organised and widely developed by the Khmers and their predecessors for many centuries. A large number have been built in an environment already marked by the presence of Khmer temples dating from the tenth (Mueang Kaeo near Prasat Non Ku and Prasat Mueang Khaek, Nakhon Ratchasima province), eleventh (Kamphaeng Noi near Kamphaeng Yai, Si Sa Ket province) and twelfth centuries (Prasat Chom Phra and Prasat Ban Chang Pi near Prasat Sikhoraphum, Surin province), especially for the sites located between the Mun river and the Dangrek range. The concentration is more noteworthy in the vicinity of Phimai and Prasat Phanom Wan, as well as around Phanom Rung, Mueang Tam and Ta Muean Thom, which are major centres of Khmer power from the eleventh and twelfth centuries. Some others hospitals are close to ancient cities characterised by circular earthworks, moats and barai (Ku Santarat at Mueang Champasi, Maha Sarakham province; Prasat Ban Noi at Mueang Phai, Sa Kaeo province or Prasat Sa Morakot, Prachin Buri province). Conversely, it seems that the line of Khmer expansion extends significantly to the north with new foundations in the provinces of Chaiyaphum (Prang Ku), Maha Sarakham (Ku Santarat, Ku Ban Khewa), Roi Et (Ku Phon Rakhang, Ku Khanthanam, Prang Ku), Khon Kaen (Ku Kaeo, Prasat Praphachai), Udon Thani (Ku Kaeo Ban Chit) and Sakon Nakhon (Ban Phanna) **[Map 1]**.

All these permanent developments attest of the demographic dynamism in the region. As indicated by stanza 119 of the Ta Prohm stele, 81,640 men and women in total, were working for the benefit of the 102 hospitals, representing an average of 800 people per hospital (Cœdès 1906: 66, 80).<sup>11</sup> At the scale of the Isan region, the total rises to a minimum of 24,000 people, within the hospitals or in the surrounding villages, which should generate significant economic prosperity.

Owing to the hospital stele's content, we know that according to the number of staff allocated, there were four hospital categories, the size of which varied (Jacques 1991: 36-41).<sup>12</sup> Thus we can deduce that logically the size should be proportional to the locality to which they were attached. Indeed the largest hospital in Isan is located next to Prasat Hin Phimai which is one of the main Khmer sites in the region, and, as stated by Jayavarman VII's inscriptions, of great importance for the king. Regarding the hospital steles found in situ in Isan, we know that five of them assigned ninety-eight employees to large hospitals – for example, at Prasat Phanom Wan (Nakhon Ratchasima province) and Prasat Khok Ngiu (Buri Ram province), situated in the western part of the region, that is to say close to the largest urban centres and near the busiest traffic axis. But also at Prang Ku (Chaiyaphum province), Ku Kaeo (Khon Kaen province) and Prasat Tham Chan (Si Sa Ket province) all of which are on the limits of the territories developed under Javavarman VII's reign. Some steles allocating fifty people to the service of the hospital were also found in Prasat Ta Muean Tot and Prang Khon Buri, located near passes crossing the Dangrek range, which suggests an almost certain permanent influx.

More closely related to the communication route's network are the "houses of Fire" because, as intended in the Preah Khan stele, most of them lined three main roads leading to Angkor (Cœdès 1941: 279-280, 296-297). From the quantities discovered compared with that announced (twenty-five out of one hundred and twenty-one and only eight in pre-modern Thailand), one cannot draw valid conclusions about their role in the territory's organisation. However, those that still exist confirm the existence of two out of the three major axes detailed in the Preah Khan stele, one in the northwest and another one in the east, probable main lines of intense trade circulation.

Strangely, we do not find any "houses of Fire" on the third axis. But, it might be interesting to compare two lists of toponyms mentioned in the Preah Khan inscription. The first one gives the name of different places where a Buddha image called Jayabuddhamahānātha was erected by Jayavarman VII (Cœdès 1941: 279, 295-296) and the second one enumerates the names of the cities with a "house of Fire" (Cœdès 1941: 279-280, 296-297). Through linguistic analysis, Cœdès (1941: 296) has identified some places in the Jayabuddhamahānātha's list with towns which are situated in present-day Thailand. According to him, Lavodayapura is Lop Buri, Svarnapura is Suphan Buri, Śambūkapatṭana is a site in the Chao Phraya valley, Jayarājapurī is Ratchaburi, Jayasimhapurī is Mueang Sing and Jayavajrapurī is Phetchaburi. Actually, the complete list begins with two unknown toponyms, Jayasimhavatī and Jayavīravatī, and ends with one also unidentified, Jayarājagiri. Curiously enough, the third axis of "houses of Fire," according to the Preah Khan stele, contains the same names at the beginning and at the end of its own list. Thus, it appears that the places that are part of the Jayabuddhamahānātha's list situated in Thailand, from north to south of the Chao Phraya river valley, could be inserted exactly in the middle of the third list of "houses of Fire" **[Table 1]**. We know that the names given in this list follows a geographical order because there were located along roads starting from Angkor (Yaśodharapura). Consequently, it is suggested that the third main road, beginning at Jayasimhavatī and Jayavīravatī and ending at Jayarājagiri, which locations are still unknown, was on the same axis as that of Lavodayapura, Svarnapura, Śambūkapaṭṭana, Jayarājapurī, Jayasimhapurī and Jayavajrapurī, that is to say toward present-day Thailand.

Table 1: Comparative Itineraries between Axis Related to "Houses of Fire" and Jayabuddhamahānātha

"Houses of Fire"	Jayabuddhamahānātha	Identification
Yaśodharapura	-	Angkor
Jayavatī	-	5
Jayasiṃhavatī	Jayasiṃhavatī	ç
Jayavīravatī	Jayavīravatī	?
-	Lavodayapura	Lop Buri
-	Svarnapura	Suphan Buri
-	Śambūkapațțana	Chao Phraya river valley
-	Jayarājapurī	Ratchaburi
-	Jayasimhapurī	Mueang Sing
-	Jayavajrapurī	Phetchaburi
-	Jayastambhapurī	?
Jayarājagiri	Jayarājagiri	?
Yaśodharapura	-	Angkor

Comparatively, other foundations located in the Chao Phraya river valley or on the western borders, seem to be scattered in marginalised areas. As the isolated Mueang Sing complex on the western border, or the cities of Sukhothai in the north and Phetchaburi in the south, they seem to mark the expansion line of Jayavarman VII's power. Distant from the political centre, they however occupied strategic positions like communication nodes, trade centres and outposts of the kingdom at the boundaries of the areas they dominated.

However, another possible criteria for the places of Jayavarman VII's foundations lies in the clear intention of honouring, and, as a matter of fact, multiplying the Buddhist sites in his kingdom.

# **Religious Analysis and Land Use Planning**

It is certainly not a coincidence that the territories on which Javavarman VII strengthened his authority were the first settlements of the introduction of Buddhism into this part of mainland Southeast Asia. Acting as a Buddhist sovereign, he had the duty to protect Buddhist sites, while ensuring the spreading of the Buddha's teaching. It is therefore not surprising to find Jayavarman VII's foundations on old Dvāravatī cities where the king strove to rebuild eminently Buddhist sites. The main settlements of Dvāravatī appear to have been at Nakhon Pathom, U Thong and Khu Bua west of the Chao Phraya river and at Lop Buri, all places where Javavarman VII built his own foundations or restored preexistent monuments (Phasook 2009). In the Mae Klong river valley, remains of the "Bayon style" have been brought to light at Kosinarai, near Nakhon Pathom (Jarunee 2534). Similarly, further south in the vicinity of Khu Bua, Javavarman VII's temples were constructed in Ratchaburi and Phetchaburi, as well as in the Bang Pakong river valley at Ban Khok Pip (Prasat Sa Morakot) in Prachin Buri, and also in Isan.

Of note, contrary to Khmer territories where Brahmanical images were still present in the repertoire, all the statues discovered in Thailand from this period are Buddhist, with the exception of portraits of the king and the queen erected at Prasat Hin Phimai.

The so-called Dvāravatī period corresponds to the introduction or expansion of Buddhism in this region of Southeast Asia, but also to the development of trade routes established from the early centuries of the Common Era, for the transportation of precious woods, metals, and rare goods. Historically, the Three Pagodas Pass is one of the main overland routes between lower Myanmar and western Thailand through which Buddhism entered the territory of present-day Thailand during the early centuries CE. Similarly, the abundance of Dyārayatī remains in the lower Mae Klong river valley seems to suggest that, in the first millennium, there was a trade route between the Bay of Bengal and the Gulf of Thailand by way of the Three Pagodas Pass. We know how Buddhism and commercial exchanges were closely associated, often using the same axis. The Dvāravatī culture has deeply structured the territories where it spread, through the establishment of a communication network to link its main principalities and possibly to support trade between the Gulf of Muttama (Martaban) and the Gulf of Thailand up to the South China Sea.

Thus, all these Buddhist locations are steps on the trade routes that Jayavarman VII had sought to control in order to take advantage for the benefit of his kingdom's economic development. Often neglected in the historical analysis of the reign, the economic point of view appears as a main parameter of the empire's power.

# Economic Analysis and Land Use Planning

In terms of natural resources, the territories under Khmer domination include the majority of river plains, lowlands fertilised by the silty flooding of major rivers (Multzer o'Naghten 2011: 138-141). In the central regions of Thailand, a long alluvial corridor is drained by the Chao Phraya river's tributaries, while the lowlands are organised around the Delta and receive sediments from the Mae Klong river and the Bang Pakong river. In the northeast, the Mun river watering the Khorat Plateau is enriched by Mekong river silts (Multzer o'Naghten 2011: 134-137).

In addition to their agricultural value, these regions have metal resources which are sorely lacking in Cambodia. In the west, Kanchanaburi province is famous for its lead mines (Pottier 1997: 198), and tin is extracted in the Tenasserim chain. The Chao Phraya river valley is rich in natural and highly sought products such as eagle wood, lacquer, oleoresin, teak and pepper. Near Lop Buri, iron deposits were exploited (Jacq-Hergoualc'h 2004: 100), while the Watthana plain contains rich enough lead, tin and gold veins (Geiringer 1891: 27-34). There are again tin and iron on the Khorat Plateau (Dagens 1994: 46), which is also the hub of huge salt production related to the salted fish traffic between Phimai and Angkor (Hendrickson 2007: 244-245). However, it appears highly unlikely that the economic power of Cambodia was based on trading. The geographical position of the kingdom, enclosed between mountain barriers which do not help transversal itineraries, and disadvantaged by a very short coastline, does not facilitate its integration into the intense activity which increased in Southeast Asia from the tenth century onwards. From the eleventh and twelfth centuries on, the Khmer rulers, must have been fully aware of the problem, and presumably tried to remedy the situation and to assert themselves in trading networks. From the economic point of view, the expansionist policy in which they got involved, by coercive ways or by the changing of alliances, had a doubly specific purpose: firstly, to annex territories rich in natural resources which they needed and secondly, to conquer maritime accesses. In the eleventh and twelfth centuries, the different attempts by the Khmer kings were not particularly successful. Therefore, Javavarman VII adopted a different policy. He understood that it was not enough to conquer accesses to the sea in order to integrate maritime networks, but that he should also extend his domination over all the communications networks and especially on the water routes connected to the three main basins which are those of the Chao Phrava river, the Mun river and the Tonle Sap, part of the Mekong river's system (Multzer o'Naghten 2011: 363-368).

To impose itself in the circle of major trading powers, the region of Cambodia needed to turn its continental central position within mainland Southeast Asia to its advantage. The movement of goods in the interior (harvested products and manufactured goods) could only flow according to specific routes and crossing points. By controlling these strategic points and by levying customs duties, the kingdom might have flourished significantly under the condition that it kept control of the entire network. In this context, land use planning was organised on control points and crossroads situated at intersections of land routes and rivers. In the light of this analysis, the geographical location of some of Jayavarman VII's foundations can be better understood (Multzer o'Naghten 2011: 368-374).

The first key point located in the most western region is the great temple of Mueang Sing, connecting the western routes related to the Ayeyarwady (Irrawaddy) river basin via the Three Pagodas Pass. There are also those sites deployed in the lower Chao Phraya river valley towards Ratchaburi and Phetchaburi. These cities, firmly established in the commercial traffic for centuries, offered, moreover, a real interest

because they led to the sea through the Gulf of Thailand. From Phetchaburi in particular, which functioned as an inland port overlooking the Gulf of Thailand, it was possible to join the cities situated on the northeastern coast of this gulf and the South China Sea (Wolters 1960) [Map 2]. Going north, from Kosinarai to Sukhothai, "Bayon style" monuments and sculptures confirm, from place to place, Jayavarman VII's dominion over the Chao Phraya river basin. The Khmer presence at Lop Buri assured the rule over the junction between the Chao Phrava river valley and that of the Pasak river, space controlled to the north by Sukhothai (Lunet de Lajonquière 1904: 246). On the other hand, Lop Buri also ensures the transition, via the Chai Badan's threshold, between the Chao Phrava river valley and that of the Mun river which extends east up to the Mekong and the Champassak plain. On the Khorat Plateau, around Prasat Hin Phimai and Prasat Phanom Wan, two main poles of communication of the region, hospital chapels and "houses of Fire" are located in the vicinity of the most currently used Dangrek's passes, such as Chong Ta Ko and Chong Samet [Map 1]. In addition, there is the pass at Pak Chong leading to Prachin Buri province, and that of Chong Ta Ko, enabling the reach of the Watthana's threshold, the single passage in the plain giving access to the Tonle Sap and Angkor. Prachin Buri's area, where remains of the time of Javavarman VII has been discovered, especially at Prasat Sa Morakot, is another hub of this network which communicates by waterways with Lop Buri and leads to the Gulf of Thailand via the Bang Pakong's valley, another commercial corridor (Lunet de Lajonquière 1909: 245). The location of some of Javavarman VII's most important monuments seem to fit judiciously in the mesh of a vast communication network much used by merchants for centuries, covering a wide area where traffic between isolated regions can be made only through some corridors and narrow passages. The control of these roads and the levy of taxes (nature tolls) certainly assured to the ruler in command, a source of considerable revenue.13

## Conclusion

King Jayavarman VII has often been seen, paradoxically, as a megalomaniac despot who led his country to ruin, on the one hand, and, on the other hand, as a Buddhist and altruistic sovereign concerned with the happiness and welfare of his subjects.

The study of the considerable archaeological material dating from his time analysed on the scale of the territory under his control, the largest ever area that a Khmer kingdom has experienced in its history [**Map 2**], reveals other aspects of this reign that reflect the real historical and human dimensions of this king. In this context, the position held by pre-modern Thailand in this vast empire illustrates perfectly the main guidelines of the royal policy based on a highly efficient system of land use planning that had remarkably integrated all variables, geographical, human and economic, in order to ensure its optimal management.

In this centralised organisation, large urban centres played the role of administrative, economic, and religious relays of the political power. All were connected to the capital city, Angkor (Yaśodharapura), by a network of overland or fluvial communication channels which allowed control over the provinces, but also trade flows transiting through strategic accesses, and contributed to the wealth development and the kingdom's prosperity. Moreover, the numerous Buddhist foundations testify to the royal policy conducted in the field of religion as much for the spread of Buddhism as for federating the dominated territories under this religious royal patronage.

Finally, by means of this policy implemented throughout his kingdom, and by controlling sites and regions of significant importance, politically, economically or religiously, Jayavarman VII hoisted his empire up among the greatest powers of Asia at the turn of the thirteenth century.

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## Appendix 1: List of "Hospital Chapels" in Thailand [see Map 1]

- No. 1: Prasat Hin Mueang Kao or Prasat Mueang Kao (IK. 452), Sung Noen district, Nakhon Ratchasima province.
- No. 2: Prasat Ban Prasat (IK. 439), Non Sung district, Nakhon Ratchasima province.
- No. 3: Prang Phon Songkhram (IK. 441), Non Sung district, Nakhon Ratchasima province.
- No. 4: Prang Ku or Wat Ku (IK. 457), Mucang district, Chaiyaphum province.
- No. 5: Prang Ku (unregistered), Ban Thaen district, Chaiyaphum province.
- No. 6: Ku Kaeo (Cisark no. 7620), Mucang district, Khon Kaen province.
- No. 7: Ku Praphachai (Cisark no. 7619), Nam Phong district, Khon Kaen province.
- No. 8: Ku Kaeo or Ku Kaeo Ban Chit (Cisark no. 6214), Ku Kaeo district, Udon Thani province.
- No. 9: Ku Phanna (Cisark no. 3889), Sawang Daen Din district, Sakon Nakhon province.
- No. 10: Ku Ban Khewa (Cisark no.1190), Mueang district, Maha Sarakham province.
- No. 11: Prang Ku (IK. 357), Thawat Buri district, Roi Et province
- No. 12: Ku Santarat (IK. 367), Na Dun district, Maha Sarakham province.
- No. 13: Ku Phon Rakhang (IK. 363), Kaset Wisai district, Roi Et province.

- No. 14: Ku Khanthanam or Ku Ban Dan (IK. 358), Phon Sai district, Roi Et province.
- No. 15: Prasat Chom Phra (IK. 380), Chom Phra district, Surin province.
- No. 16: Prasat (Sa) Kamphaeng Noi (IK. 372), Mueang district, Si Sa Ket province.
- No. 17: Prasat Ban Chaniang (IK. 378), Mueang district, Surin province.
- No. 18: Prasat (Ban) Chang Pi (IK. 381), Sikhoraphum district, Surin province.
- No. 19: Prasat Tham Chan or Prasat Ban Samo (IK. 393), Prang Ku district, Si Sa Ket province.
- No. 20: Prasat Ban Prasat or Prasat Kangaen (IK. 385), Sangkha district, Surin province.
- No. 21: Prasat Ta Muean Tot (IK. 373), Phanom Dong Rak district, Surin province.
- No. 22: Kuti Ruesi Ban Khok Mueang/Mueang Tam (IK. 404), Prakhon Chai district, Buri Ram province.
- No. 23: Kuti Ruesi Nong Bua Rai or Bua Lai/ Phanom Rung (IK. 402), Prakhon Chai district, Buri Ram province.
- No. 24: Prasat Khok Ngiu or Prasat Hin Khok Prasat (IK. 410), Pakham district, Buri Ram province.
- No. 25: Prang Khon Buri (IK. 422), Khon Buri district, Nakhon Ratchasima province.
- No. 26: Prasat Sa Phleng (IK. 433), Chok Chai district, Nakhon Ratchasima province.

- No. 27: Prang Ban Prang (Cisark no. 7578), Huai Thalaeng district, Nakhon Ratchasima province.
- No. 28: Kuti Ruesi (Noi) (Cisark no. 7577), Phimai district, Nakhon Ratchasima province.
- No. 29: Kuti Ruesi (IK. 420), Ban Mai Chaiyaphot district, Buri Ram province.

## Appendix 2: List of "Houses of Fire" in Thailand [see Maps 1-2]

- No. 33: Prasat Ta Muean (Cisark no.7575), Kap Choeng district [formerly Phanom Dong Rak], Surin province.
- No. 34: Prasat Thamo (IK. 400), Ban Kruat district, Buri Ram province.
- No. 35: Prasat Ban Bu/Phanom Rung (Cisark no. 2422), Prakhon Chai district, Buri Ram province.
- No. 36: Prasat Khok Prasat [formerly Prasat Nong Khong] (Cisark no.6048), Nang Rong district, Buri Ram province.
- No. 37: Prasat Nong Prong [formerly Prasat Nong Plong] (IK.413), Nang Rong district, Buri Ram province.

## Appendix 3:

## List of "Hospital Edicts" in Thailand [cf. Appendix 1]

- No. I: Prang Ku (K. 402), Mueang district, Chaiyaphum province [Appendix 1, no. 4].
- No. II: Ku Kaeo (K. 1170), Mueang district, Khon Kaen province [Appendix 1, no. 6].
- No. III: Prasat Khok Ngiu (K. 386), Pakham district, Buri Ram province [Appendix 1, no. 24].
- No. IV: Prang Khon Buri (K. 387), Khon Buri district, Nakhon Ratchasima province [Appendix 1, no. 25].
- No. V: Prasat Phanom Wan (K. 395), Mueang district, Nakhon Ratchasima province.
- No. VI: Prasat Hin Phimai (K. 952), Phimai district, Nakhon Ratchasima province [Appendix 1, no. 28].

No. 38: Prasat Nong Ta Pleng [formerly Prasat Sebo] (IK. 415), Nang Rong district, Buri Ram province.

No. 30: Prasat Nang Ram (IK. 445), Prathai district,

Watthana Nakhon district, Sa Kaeo province.

Si Mahosot district, Prachin Buri province.

Nakhon Ratchasima province.

No. 31: Prasat Ban Noi (Cisark no. 7656),

No. 32: Prasat Sa Morakot (Cisark no. 1311),

- No. 39: Prasat Huai Khaen (Cisark no.7573), Huai Thalaeng district, Nakhon Ratchasima province.
- No. 40: Prasat Ku Sila (Cisark no.7571), Huai Thalaeng district, Nakhon Ratchasima province.
- No. 41: Phimai (?), mentioned in K. 908, Phimai district, Nakhon Ratchasima province.
- No. 42: Kosinarai (unregistered), Ban Pong district, Nakhon Pathom province **[Map 2]**.

- No. VII: Prasat Ta Muean Tot (K. 375), Phanom Dong Rak district, Surin province [Appendix 1, no. 21].
- No. VIII: Unknown provenance (SR 4 = K. 1115), Prasat district, Surin province
- No. IX: Unknown provenance (SR 6), Mueang district, Surin province.
- No. X: Ku Khanthanam (unregistered), Phon Sai district, Roi Et province [Appendix 1, no. 14].
- No. XI: Ku Phon Rakhang (unregistered), Kaset Wisai district, Roi Et province [Appendix 1, no. 13].
- No. XII: Prasat Tham Chan (unregistered), Prang Ku district, Si Sa Ket province [Appendix 1, no. 19].

#### Endnotes

- Several Sanskrit inscriptions of the Khmer prince Citrasena (later King Mahendravarman) have been found in different provinces of northeast Thailand. See Vickery (1998: 71-75); also Lorrillard, this volume.
- 2 This essay is drawn from my doctoral dissertation submitted at Paris 3-Sorbonne nouvelle under the supervision of Michel Jacq-Hergoualc'h (Multzer o'Naghten 2011: 125-416).
- 3 Contra Groslier (1980: 41-42).
- 4 One hundred and two hospital chapels are quoted in the Ta Prohm stele (K. 273, st. 117) and one hundred and twenty-one "houses of Fire" appear in the Preah Khan stele (K. 908, st. 126).
- 5 See Appendix 1, nos. 7, 8, 9, 20, and 27.
- 6 See Appendix 1, nos. 1, 5, 13, 14, and 23. Rungrot, however, erroneously identifies chapel no. 5 as IK. 433 which actually corresponds to chapel no. 26. To be totally accurate, most of the aforementioned monuments have already been identified by B.-P. Groslier during his investigations conducted in Thailand between 1973 and 1975 (Groslier 1980), in collaboration with the Fine Arts Department of Thailand (FAD). Several FAD reports also provide relevant surveys and information, but unfortunately they are written in Thai and are, therefore, inaccessible to most researchers who do not read this language.
- 7 Claude Jacques (1993: 39) enumerates seven steles [Appendix 3, nos. I-VII] and an additional one for which he did not know the name, located near Surin. Jacques perhaps referred to one of the inscriptions registered in Thailand as SR 4 (K. 1115) or SR 6 with no precise provenance [Appendix 3, nos. VIII-IX]. More recent discoveries have also been made since the 1990s. Two stone edicts were found in 2002 in Roi Et

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province, respectively at Ku Khanthanam, Phon Sai district, and Ku Phon Rakhang, Kaset Wisai district (Phimphan 2546; Appendix 3, nos. X-XI), and one edict of the third category was excavated in 2008 near Prasat Tham Chan (IK. 393) in Prang Ku district, Si Sa Ket province (Kongkaeo 2553; Appendix 3, no. XII). I thank Nicolas Revire for these new references published only in Thai.

- 8 These are kept at the Prachin Buri National Museum and received the following K. accession numbers for the inscriptions: K. 1052 for the mirror support in crescent shaped, K. 1053 for the conch, K. 1054 and K. 1055 for the round and oval bowls, and K. 1056 for the tetrapod support of a conch.
- 9 K. 1052 and K. 1056, from Ban Khok Pip, are both donations made from Jayavarman VII, respectively in 1192 and 1193 CE (Boisselier 1972: 46-47), as well as K. 973, offered in 1192 CE at the hospital named Virendrapura, today Prasat Khok Ngiu (Cœdès 1937-66: VII, 154). K. 1054 and K. 1055, from Ban Khok Pip (Prasat Sa Morakot), are dated 1187-88 CE (Boisselier 1972: 47).
- 10 Woodward (1994-95) has proposed to identify images of Jayabuddhamahānātha with the "radiating" Lokeśvara. This hypothesis is not really convincing, however, for a Bodhisattva cannot be considered a Buddha in Cambodia. See also Jacques (2005).
- 11 I thank Christophe Pottier for drawing my attention to this fact.
- 12 Jacques notes that only the hospital stele found in Phimai belongs to the second category.
- 13 Christoval de Jaque remarks that "the Laos paid tribute of one tenth of their mines, herds, and agricultural products, which one should probably interpret as a customs duty levied on merchandise passing through Cambodia" (Groslier 2006: 123).

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## $(\bullet)$

# Contributors

The list of contributors follows the order of their appearance in the volume.

- Chris Baker has a doctorate from the University of Cambridge where he taught Asian history and politics. He has lived in Thailand for over 30 years. With Pasuk Phongpaichit, he has written *Thailand: Economy and Politics* (OUP, 1995), *A History of Thailand* (CUP, 2005), *Thaksin* (Silkworm Books, 2004), and translated the epic poem, *The Tale of Khun Chang Khun Phaen* (Silkworm Books, 2010). He is honourary editor of the *Journal of the Siam Society*.
- Hiram Woodward, Curator Emeritus of Asian Art at the Walters Art Museum in Baltimore, Maryland, is the chief author of Sacred Sculpture of Thailand: The Alexander B. Griswold Collection, The Walters Art Museum (River Books, 1997) and author of The Art and Architecture of Thailand: From Prehistoric Times through the Thirteenth Century (Brill, 2003).
- **Trongjai Hutangkura** received his doctorate in 2012 from the University of Nice-Sophia Antipolis with a dissertation on archaeology using the application of palynology, geomorphology and archaeology to investigate the chronology of phytogeography of the Lower Central Plain of Thailand in the Holocene period. He currently works as a full-time researcher at the Sirindhorn Anthropology Centre in Bangkok.
- **Bérénice Bellina** is a member of the CNRS in France. Her research focuses on exchange and cultural transfer processes around the Indian Ocean and between South and Southeast Asia. Since 2005, she has been the director of the Thai-French archaeological mission in the upper Thai-Malay Peninsula that investigates the co-evolution of the different populations and ecosystems in relation to long-distance exchange from the early/mid-first millennium BCE to the late first millennium CE.
- **Ian C. Glover** is the Emeritus Reader in Southeast Asian archaeology at the Institute of Archaeology, University College London. He studied at the University of Sydney and the Australian National University where he undertook field research in East Timor, Sulawesi, Sumatra, Thailand, and India and continues research on the Champa civilisation of Vietnam. He has interests in glass and metal-working and in early trade networks linking South and Southeast Asia.
- **Shahnaj Husne Jahan** is a professor and director of the Centre for Archaeological Studies at the University of Liberal Arts Bangladesh. She is involved in research in the field of archaeology, history and culture of South and Southeast Asia and is currently excavating the archaeological site of Bhitargarh, a fortified settlement in Panchagarh district, Bangladesh. She has three books and

several research papers on archaeology and art history to her credit.

- **Brigitte Borell** earned her doctorate from Heidelberg University in classical archaeology. She first worked as a researcher for the German Archaeological Institute (DAI) and the Institute for Classical Archaeology of Heidelberg University before moving to Southeast Asia where she lived for several years due to family reasons. She is currently working and living near Heidelberg as an independent scholar. Her research interest is in the Maritime Silk Road in the early centuries CE.
- **Boonyarit Chaisuwan** graduated in archaeology from Silpakorn University, Bangkok. He first worked as a curator at the History and Military Museum, Ministry of Defense, before being transferred to the FAD, Ministry of Culture, as an archaeologist in Suphan Buri, Ayutthaya and Phuket provinces. He is currently the head of the Mueang Sing Historical Park in Kanchanaburi province. Together with Rarai Naiyawat, he has co-authored *Thung Tuk: A Settlement Linking Together the Maritime Silk Route* (Trio Creation, 2009).
- **Thanik Lertcharnrit** (formerly known as Sawang Lertrit) received a doctorate in anthropology from Washington State University. He is an associate professor of archaeology at the Department of Archaeology, Silpakorn University in Bangkok, and an adjunct professor at Mahidol University International College. He has conducted excavations in central Thailand for the past ten years, including at the sites of Sap Champa and Phromthin Tai in Lop Buri province to recover archaeological remains dating from the late prehistoric to the early historic periods.
- Himanshu Prabha Ray is at present chairperson, National Monuments Authority, Ministry of Culture, New Delhi. She was recently honoured with the Anneliese Maier award of the Humboldt Foundation for 2013. Until August 2012, she was Professor at the Centre for Historical Studies, Jawaharlal Nehru University, New Delhi, which she joined in 1980. Her research interests include the archaeology of religion in Asia, especially Buddhism and maritime history and archaeology of the Indian Ocean.
- **Paul A. Lavy** is assistant professor of South and Southeast Asian art history at the University of Hawai'i, Manoā. His research interests and publications focus on the Hindu and Buddhist artistic traditions of early mainland Southeast Asia, and particularly on the pre-Angkorian period. He is currently writing a book on the early Brahmanical

sculpture of Thailand, Laos, Cambodia, and Vietnam.

- Wannasarn Noonsuk was awarded the Ananda Mahidol Foundation scholarship to pursue his graduate studies in the United States where he received his doctorate in art history and archaeology from Cornell University in 2012. He is now teaching at Walailak University, Nakhon Si Thammarat, where he is also directing the Research Unit for Archaeology. He recently published *Tambralinga and Nakhon Si Thammarat: Early Kingdoms on the Isthmus* of *Southeast Asia* (Rajabhat Nakhon Si Thammarat University Press, 2013).
- **Michel Lorrillard** received his doctorate from the École Pratique des Hautes Études, Paris. He joined the EFEO in 1997 and was appointed director of the Chiang Mai (1999-2000) and Vientiane (2000-2011) centres. Between 2001 and 2009, he conducted systematic surveys across the provinces of Laos, leading to the discovery of numerous manuscripts, inscriptions, and archaeological remains linked mainly with Khmer and Mon cultures of the middle Mekong valley preceding the foundation of the first Lao kingdom. He is currently pursuing his research in France.
- Elizabeth H. Moore is Professor in the Department of History of Art and Archaeology, SOAS, University of London. She has published extensively on the archaeology of Myanmar, Thailand and Cambodia. Her most recent monograph is *Early Landscapes of Myanmar* (River Books, 2007).
- **San Win** is a member of the Historical Research Commission and teaches at the University of Yangon, Department of Archaeology, where he received his Master's degree. Recent publications, in Myanmar language, include *Research on Suvannabhūmi* (Kyonma Nge Press, 2013).
- **Nicolas Revire** graduated from the University of Paris 3-Sorbonne nouvelle in France. He is a full-time lecturer at the Faculty of Liberal Arts, Thammasat University, since 2003, and a guest lecturer at Mahachulalongkorn Buddhist University, Bangkok. He specialises in the early art and archaeology of Southeast Asia with a research focus on Buddhist iconography and Dvāravatī. He has contributed several articles and reviews in the *Journal of the Siam Society* and other academic journals, and translated numerous scholarly publications from Thai and English into French.
- **Pinna Indorf**, now an independent scholar, began her career with a degree in architecture from the University of Texas. After practising in the United States for about one year, the Philippines for two and nearly ten in Thailand, she earned a doctorate at the National University of Singapore where she taught and did research for twenty-five years in the

School of Architecture, focusing on the history of traditional architecture of Southeast Asia (Hindu, Buddhist and indigenous) and the relationship between culture and architecture.

- Wesley Clarke is a registered professional archaeologist with forty years experience in the American Midwest. His first Southeast Asian research was conducted in 1974 in northern Thailand for an undergraduate thesis in anthropology at Prescott College (Prescott, Arizona). Since 2003, he has been involved with archaeological research in Cambodia and Thailand, most recently focusing on issues surrounding the Dvāravatī cultural concept. He has a Master's degree in Southeast Asian studies from Ohio University (Athens), and is on the staff of The Castle Museum (Marietta, Ohio).
- **Matthew D. Gallon** served as the director of the Kamphaeng Saen Archaeology Project from 2009-2010. The project investigated the chronology, organisation and function of the fifth to ninth century CE centre of Kamphaeng Saen, located in central Thailand. He has also conducted archaeological field research on early urban communities in India, China and Mongolia. He received a doctorate in anthropological archaeology from the University of Michigan in 2013.
- **Stephen A. Murphy** completed his doctorate at SOAS, University of London in 2011, after which he spent two years as a research associate at the Department of Asian Art, the Metropolitan Museum of Art, New York. He is currently a research fellow at The Asian Civilisations Museum, Singapore. His research focuses primarily on the early development of Buddhist material culture in northeast Thailand and Laos.
- **Pia Conti** is an independent scholar based in London. She graduated at the University of Zurich and worked in the English Department as a wissenschaftliche Assistentin. She subsequently took a degree in art and archaeology at SOAS in London where she occasionally teaches.
- Hedwige Multzer o'Naghten completed her doctorate at the University of Paris 3-Sorbonne nouvelle in 2011. She later joined the research unit UMR 7528 (Monde iranien et indien) and also works as an associate researcher with CREOPS (Paris 4-Sorbonne). She specialises in Khmer art history and is currently pursuing her research on the Buddhism of Jayavarman VII from the angle of iconography through a comparative study between temples and sculpture (in partnership with the Centre for Khmer Studies).

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