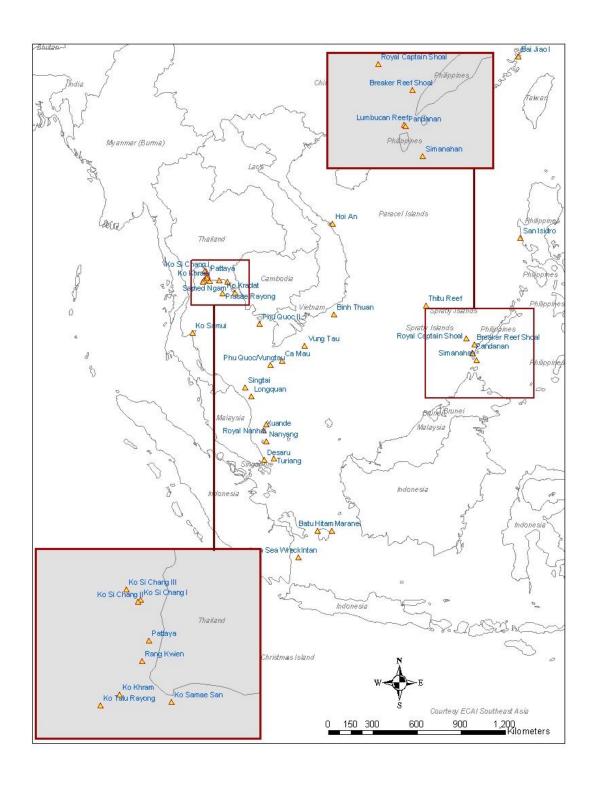
# Shipwreck Ceramics and the Fall of Melaka

Roxanna M. Brown, Director
Southeast Asian Ceramics Museum
talk for
Southeast Asian Ceramic Society, West
Malaysia branch, Kuala Lumpur

20 July 2007

Since 1974:

150+ wreck sites in S. E. Asia



### New evidence from shipwrecks on

- 1. Who/what paid for Borobudur (early 9<sup>th</sup> century)?
- 2. Why the *deva-raja* cult, Cambodia? (early 9<sup>th</sup> century)?
- 3. Ming gap & the Golden Age for S. E. Asian ceramics.
- 4. Zheng He ceramics.
- 5. The conch motif and the fall of Melaka

#### Shipwrecks with Ceramics 9th – early 14th Centuries

Belitung AD 826+	Intan c. 918-960, Cirebon c. 950-1000	Pulau Buaya c. 1000-1050	Tanjung Simpang, c. 1050-1100	<b>Jepara</b> 1130 +	Allaipiddy c.1150-1200, Karang China c. 1100-1300	Breaker Reef, Java Sea, Huaguangjiao I: all c. 1200-1299; Quanzhou c. 1277	Sinan c. 1325 Datu Island c.1300-1325
98% Changsha ceramics	Mostly Guangdong	Mixed Guangdong, Fujian	Mixed Guangdong, Fujian	Minnan (Fujian), Longqua n	Most Fujian, some Guangdong, Jingdezhen	Most Fujian, some Guangdong, some Jingdezhen	Longquan, Jingdezhen
West Indian Ocean <i>dhow</i>	Intan: lashed lug	no data	single piece softwood at location	No data	No data	Java Sea probably lashed lug	

B. Groslier

877-889
Roluos
earliest
Kh
glaze:
roof
tiles,
conical
bowls,
boxes,
covered
urn

boxes; no bowls at Angkor, ; cup-mouth bottles; major Ch import from c. 950

No new Ch infl; begin brown Kh; animal shapes, lenticular, baluster jars c. 1050 begin Anlong Thom kilns; 1075-1125 Sras Srang burials (also end 12<sup>th</sup>)

- 1. Ships circa A.D. 800 1367
- 2. Ships circa A.D. 1368-1573
- 3. Ships post-1573

Brown: proposed time span Buriram kilns c. 1050-1125

# Belitung wreck (c. 826)





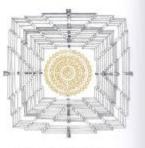


## Cirebon (c. 960) shipwreck









- 1 Plan of Borobodur (above)
- a Niches containing Buddhas on the middle levels of Borobodur (left)
- 3 Stupus containing Buddhas on the upper levels of Borobodur (below)



### AD 800-850:

# Bulk China trade

Borobudur

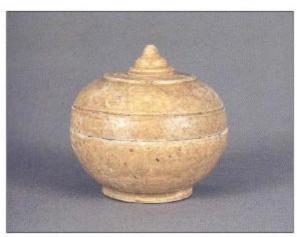
Deva-rajah cult

Jayavarman II 802-850

# Khmer deva-raja cult: "so that the country of the Kambujas would no longer be dependent on Java...."







#### Southeast Asian Trade Wares 15th Century ©Roxanna M. Brown March 2006 c. 1400 -1424/30 c. 1368 - 1400 c. 1424/30 -1487 c. 1488 -1505 Nanyang, Longquan, Royal Flecker Phu Quoc I & II. Brunei Junk, Nanhai, Prasae Rayong, Turiang. Rang Kwien, Lena Shoal, Pandanan, Belanakan. Song Doc Ko Si Chang II. Santa Cruz (wrecksites) Phu Quoc II & III. Sha Tsui. Bakau, (Hoi An) Ko Si Chang III, Ko Khram. Baginda Sankamphaeng dishes Singburi Champa ware Suphanburi storage jars Sukhothai Sukhothai: Sukhothai 1 plates only underglaze jarlet fish & floral motifs Sawankhalok green Sawankhalok 'Mon' Sawankhalok Sawankhalok glaze, underglaze fish brown & green - Pa Yang celadon classic celadon & floral plates monochrome ware - 1 underglaze jarlet Burmese celadon Early Vietnam underglaze Vietnam underglaze blue, monochrome, polychrome About 50% Chinese About 75% 1 - 5% Chinese Celadon & other monochrome ware

Chinese

### 'Ming gap'

 Term 'Ming gap' from Tom Harrisson -- referred to the absence of Ming blue & white at the Sarawak river excavations (NOT to an absence of blue & white across the region). The missing Sarawak blue & white was instead discovered in excavations at Brunei.

#### **New definition:**

- 1. Severe shortage of blue & white to S. E. Asia circa 1352 1470
- 2. Drop in overall Chinese ceramics export (from previous 100%) to about 50% *circa* 1368-1424
- 3. Drop in overall Chinese ceramics export to less than 1% circa 1425-1487
  - -- Ming gap ends with Hongzhi (1488-1505) reign --

#### Southeast Asian Trade Wares 15th Century ©Roxanna M. Brown March 2006 c. 1400 -1424/30 c. 1368 - 1400 c. 1424/30 -1487 c. 1488 -1505 Nanyang, Longquan, Royal Flecker Phu Quoc I & II. Brunei Junk, Nanhai, Prasae Rayong, Turiang. Rang Kwien, Lena Shoal, Pandanan, Belanakan. Song Doc Ko Si Chang II. Santa Cruz (wrecksites) Phu Quoc II & III. Sha Tsui. Bakau, (Hoi An) Ko Si Chang III, Ko Khram. Baginda Sankamphaeng dishes Singburi Champa ware Suphanburi storage jars Sukhothai Sukhothai: Sukhothai 1 plates only underglaze jarlet fish & floral motifs Sawankhalok green Sawankhalok 'Mon' Sawankhalok Sawankhalok glaze, underglaze fish brown & green - Pa Yang celadon classic celadon & floral plates monochrome ware - 1 underglaze jarlet Burmese celadon Early Vietnam underglaze Vietnam underglaze blue, monochrome, polychrome About 50% Chinese About 75% 1 - 5% Chinese Celadon & other monochrome ware

Chinese

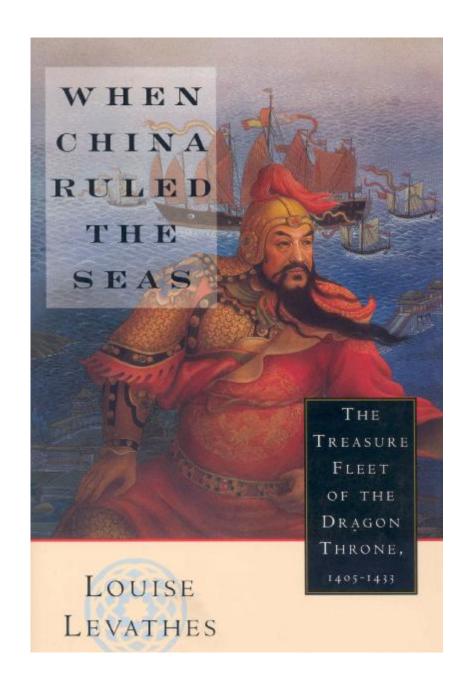
Zheng He-like voyages from 1369, e.g. 180 ships built 1384, 300 in 1387

1383 (9 Sept) 'envoys sent to confer cloth and 19,000 pieces porcelain on Champa, Siam, Cambodia'

Zheng He one of 13 named admirals in Yongle reign

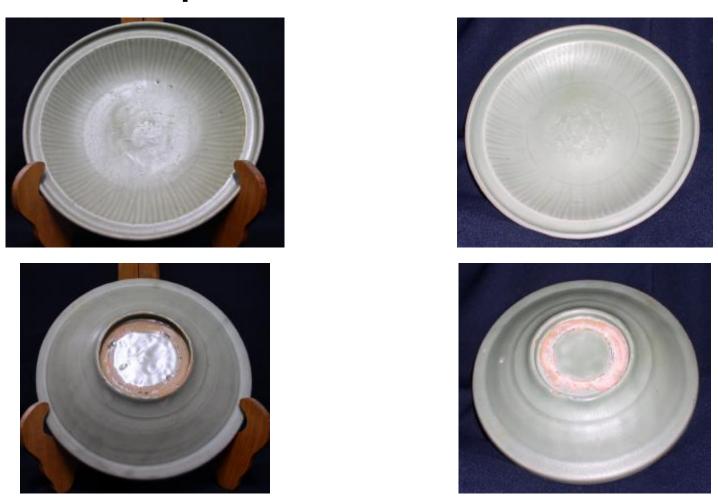
Missions end 1424; except one more in 1432; ships dismantled Nov 1435

\*Geoffrey Wade translations of Chinese chronicles



Blue & white?! Archaeology shows...

# Early Ming celadon, Song Doc shipwreck 1380-1400



'Zhenghe' ceramics

# Turiang-type cargoes (c. 1400-1424)

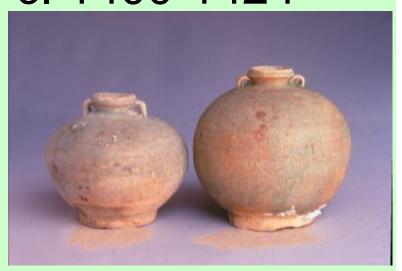




'Zhenghe' ceramics

# Early Thai green glaze – Sawankhalok Turiang-type cargoes <u>c. 1400-1424</u>











### Classic Thai celadon 1425-1487





Royal Nanhai (c. 1460)

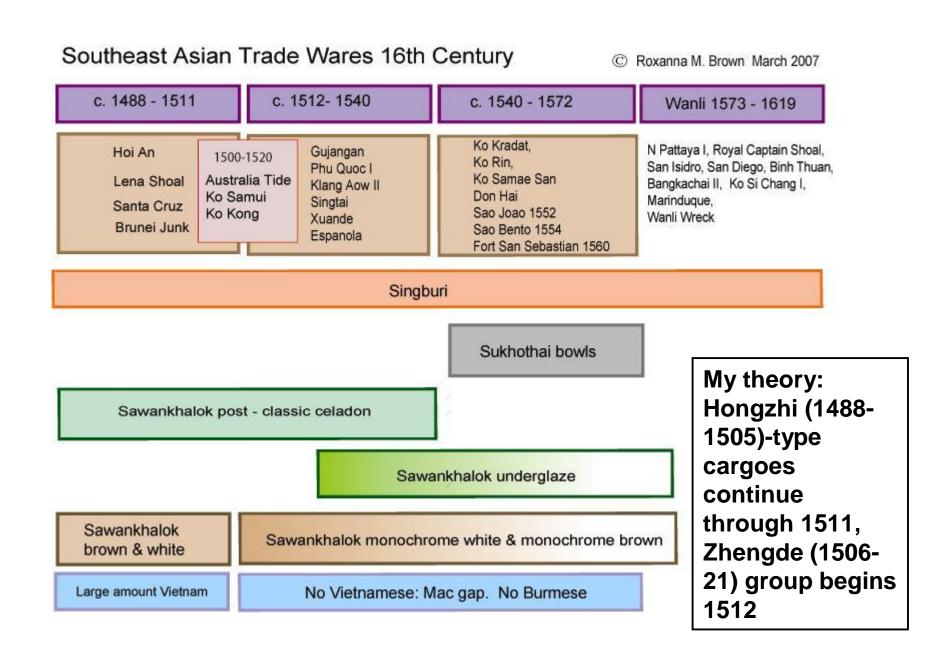




1% and less Chinese, e.g.:

### Royal Nanhai (c. 1460): 21,000 pieces Thai classic celadon 6 Chinese blue & white, 1 celadon 2 Vietnamese blue & white





# My theory: Hongzhi (1488-1505)-type cargoes remain unchanged through 1511

2 groups of shipwrecks definitely follow one after the other, and Chinese agree 1<sup>st</sup> group is Hongzhi. 2<sup>nd</sup> must be Zhengde (1506-21)?

What could cause the drastic differences between the 2 groups?

# Lesser quality Chinese ware, overall smaller cargoes & smaller ships

Hongzhi blue & white





### Key event:

### Counter-attack January 1512

- Empoli: 35 500-tonne junks, 70 slightly smaller, then many very small
- Pires: Meantime Java gathered all its forces and came against Malacca with a hundred sail, ...some 40 junks and 60 lancharas and a hundred *calaluzes*... Our ships went out to meet them, at which the Javanese withdrew with the tide, leaving everything and taking to the *calaluzes*. **All the rest were burnt, ..**

# Increased shipping reported in China for Hongzhi (1488-1505) reign

#### 6 April 1493

• The Censor-in-Chief Min Gui, supreme commander of Guang-dong/Guang-xi, memorialized: "In the coastal areas of Guang-dong, many people are privately dealing with [those who come on the] fan ships. The ships come in an unbroken stream and ...[those on] the fan ships start selling their merchandise....

According to Gui's memorial, the problem lies with the great number of *fan* ships .... According to this Ministry, since the first year of the Hong-zhi reign (148/89) the only *fan* ships which have brought tribute missions through Guang-dong have been one from Champa and one from Siam.

## Zhengde-type porcelain



# No substantial change in China until Wu Ting-ju sacked 1521-22

13 January 1521 [Because of regulations] The *yi* persons could thus not make much profit and the number who came was limited. Recently, the administration commissioner Wu Ting-ju put forward a proposal based on his claim that [the province] lacked aromatics to send to the Court and lacked provisions for the armed forces. Thus, frequency restrictions were ignored and the goods of any ship which arrived were taxed. This has resulted in *fan* ships continually coming to our coastal bays.... Ting-ju's proposals have led to these troubles. The Ministry of Revenue should be instructed to examine the precedents and remove him."

Geoff Wade, translator, Southeast Asia in the Ming Shi-lu: an open access resource, Singapore: Asia Research Institute and the Singapore E-Press, National University of Singapore, <a href="http://epress.nus.edu.sg/msl/entry/1389">http://epress.nus.edu.sg/msl/entry/1389</a>, accessed January 09, 2007.

### Drop in trade

- Pires (1512-1515, p.195) .. And through the destruction of Malacca they [Grisee merchants] do not navigate...nor have they any junks, because most of the Javanese junks come from Pegu, where the Javanese and other people who bought in Malacca used to send for them to be made; ... it is already five years since this stopped, and the Governor of India burned and defeated all the enemy junks, they were all left without any, and they have no junks."
- (p 217) "This king [Tidore] is very desirous of trading with us, because the Moluccas Islands are going to ruin, and for the last three years they have only gathered a few cloves, because of the drop in navigation since the capture of Malacca.

Hongzhi cargoes \_\_\_\_\_

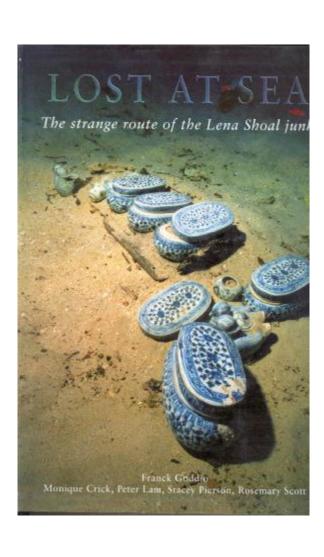
### Hongzhi (1488-1506)-type cargoes:

- 1. First bulk Ming blue & white export
- 2. Greatest variety types of ware, i.e.:
  - a. Chinese (1)blue & white (2)celadon, other monochrome ware, (3) 1st polychrome Chinese from ships
  - b. Burmese celadon (& Burmese lead-glazed..?)
  - c. Vietnamese blue & white, and monochrome (& polychrome?)
  - d. Rare heirloom Champa ware
  - e. Sawankhalok post-classic celadon (1 single underglaze jarlet known)
  - f. Sukhothai underglaze, 1 single jarlet known





## Lena Shoal, Philippines Hongzhi-type cargo



- Discovered 1996
- Excavated 1998
- About 4,000 ceramics

### Santa Cruz, Philippines Hongzhi-type cargo

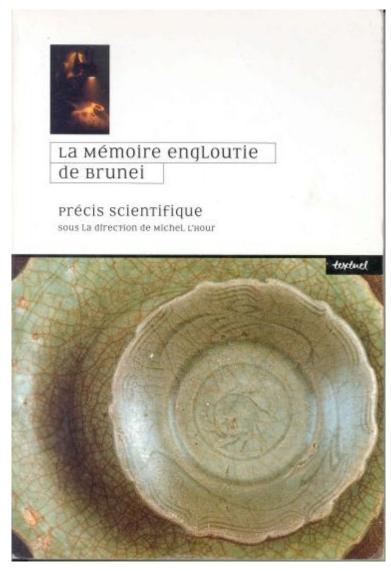


Excavated June-September 2001 -15,000 objects (11,500 ceramics, about 8,000 intact)





# Brunei Junk, Brunei Hongzhi-type cargo



Reported 1997, excavated 1998

About 12,250 ceramics

**Book 2001** 

Hoi An, Vietnam

Hongzhi-type ?2





Butterfield's auction Oct 2000







Gujangan (Jolo) shipwreck, Philippines, Zhenade-type cargo

COLLECTORS WORLD

MING IN JOLO

Larry Gotuaco

THIS Six collector's providentes of swings and baselings were Ming extraols reproceed from a studie work off job labed in
the near foresten region of the Philoppion.

State war of Rt. Deptile States. Foreign, transfer At July, Separa particular

In August of 1988, there was a farry of excitances in March's artispare market. Some region large pieces of Mang has and white commonly also strated in a few shape. Day were not only leig pieces, but they were from all cranates ratch years in offer market believ. These pieces were defaulty different from the emmails research from chipoteche in recent years off Produzat in 1995, off Beausague in 1995, and the most recent one off Zambalic in 2001.

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Larry Gotuaco, *Arts of Asia*, Nov-Dec 2002





Discovered by fishermen 1997

Reported 1998

Excavated 1999

NO official report yet

## Xuande shipwreck (c. 1530-40), Malaysia, Zhengde-type cargo

#### The 'Xuande' Wreck Ceramics

Sten Stoitmard

(A supplement to the preceding anticle by Resigning Brown)

#### The Mystery of a Cargo Without a Ship

April 1996 proces of a corpo from an early Mirro pyrousy yeard. minute side-scan screar surveys the main portion of the remains within the persenter was only half bertad. existented in 52 motors of water. 60 main cal reflections share. The sarch had been secured by a report from a local balcoman who had undertally engaged some antique personics in his mostler's per-Besigness comprised one Soward halok minution brown specied statively statistized area of events uguare rules. While this regard being a very large search area, the finds some sufficiently imposting s warrant à large scale varver-

To conduct this survey, the author and his cross abound the fallow docided to temporarily interrupt the excayation of another week, named the Royal Nasha (provisionally deted to the 19th ittey), at encountries approved by the federal government of

The search area for the newly reported one was subject to two analoguan carret serododaring which deep diving a repossible. bedroug our take place for a month, twice yearly. To noke use floor-diving time. It was decided to search for the possible new resk size owing king-range, high frequency nide-scan sovar amostically scarring the scaped in two handred metre overs to large mory tires. When it heavier possible, targets' were visually spected by an RCW (remote operated vehicle) or also personally reducts. The of the ROV however sweddies time man-hours, and resequently gave the searchers more time to investigate the low

repressions by ROV, one elongated, and scar on the recorder. sowing 18 s 7 mens, clearly indicated a wrick site. The authoras the surveyor cived to the bottom and righted the rentains of a inde corpor home contactor earlier. The coresia throughout the stre. netter, was the low density of perantic ametacis. The espectful mand of frenken controls wares, so clearly suggested by the sidein some, was instead only a flat layer of scattered (workunders, litwood of owngrown and most y broken Chriese blue and white lide wires, later suspected to be hosteraally significant, for some them displayed the coveted reign mark of the Ming emperor

Two snall breach loaded cannons were also found lying on roundaris of the precisely marked drap shaped scarnattine shown. soon. No wood of any kind or quarron, was discovered, then or

Schsoquest investigation revenical that Chinese blue-and-

white centure, were assumed the recorded sear plus the area minorbately in its west. Soverkhulok and Sukhothit undergluss black waste from Thailant by scattered outside the eastern sale. All these coveries outcale the drap's scaline were purely or woully me theoretical off the user cross of periodic Meloysic. After humalito areasimum capabol 30 conserence solulural the resternal

Despite thorough probing within the confras of the see perecusing 1.5 mems min the gabed, ap-wooder refurryans of a week or its rego could be located. This english gagest that the ship had a codernally broaches, and up fled its dock caugo overboard. But into and a small award shaper storage or. The precessorre into - a dock cargo, falling in any morner from the surface, would be time over a period of six days when the rowder had covered it especial mospead over a much larger and. To be sailing with the correct winds, the ship morthwe paned fin area heroccal December and March, when their would also have been the same strong underwater corrests that prevent drong

If indeed a ship only pently loaded with pottery hid surk and then later complexely round away, one would expect to find ballog rucks (for the security craftliny) in the place of heavy cargo. Yet no belles such have been beened. The only sensitive exclusion is that the ship itself, fully loaded and brany, with time the scaled Towing behind the dealt range at the earlier. This has Joshapa optionitic) possibility would appear the most feasible - except for the carriers that by on the sea floor. Why sid they, with they higher density, mir sink?

Mirral detectors deployee to scan the scar and its immediate 00 first the not detect any metallic alticent or har than some coppobranches Subargares surveys with a proton magnetismater did out confirm the presence of any femous marals which store, but not ahows, are present in form of anchors and carmordially. Yet another never with a suft-bostom profiler, paramating 60 mayes into the seabed, balled to locate a week or a further stask of gargos. The After many being mike of survey and repeated visual appearment for metric state distribution of the second to be second to instrument could not detect any details. It is possible that but of the wrock their slid penetrate the upper soft layer of the sealest and remainbelow amanually profited depth of 1.5 marries, perhaps lying grop burder-strata found at a depth of 4 metres below the present level. Why this later instrument did not describ submissaid world or further cargo sergains in the soft 4 metre level remains a convictor

> Another indicator that an acoust obvescal wowel as least to some time, sat at this point on the seabed is the unce deep scouring. (or ensure) evident at the sensitive side. This type of erosion is not coronor in intraces where a strong ocean current is deflected by at obstruction. Along the path of its changed direction the ensure accelerates, and consequently correspond a trench directly beside the obstacle. This type of erosion, next to a ship's side, has been mited at most leason wreck sites in the area. Later, when the wood chall and deak rocaway, the eleck cases would collapse total discovered. There, it would be found to day. Meanwhile the previously present



**Excavated** 1996

Oriental Art Summer 1997

300-400 ceramics

Fig. 6 a, b, c, d Sawankhalok wares recovered from the Phu Quoc shipwreck in association with blue-and-white bowls. See fn. 17.

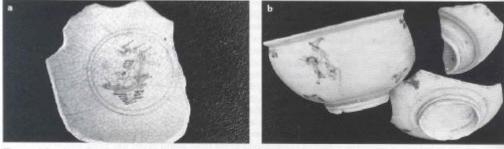


Fig. 7 a, b Interior and exterior views of fragments from the Phu Quoc shipwreck, all from a single type of Chinese blue-and-white bowl. C.1500. See fn. 17.

Brown, *The Ceramics of Southeast Asia*, 2<sup>nd</sup> edition, 1988

### Phu Quoc I, Vietnam, Zhengde-type

# Found early 1970s About 100 fragments collected

INTRODUCTION

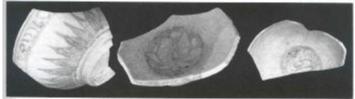


Fig. 8 Two alternate well contributed for plan exterior fragment of a type of Chiese bine-and-white book recovered with Saventhalah weres from the Plu Quoe nigweek. C.1500. See fr. 17.

etter chronology for the trade wares of Sawankhalok/Sukhothai than 'late thirteenth or fourteenth century' for the Sawankhalok Mon and Monassociated wares, and 'fourteenth to mid-sisteenth centuries' for the remainder. The kiln sites themselves have so far been found to be too disturbed to help in this respect. Although the kiln structures might one day all be dated, it is difficult to know which wares were fired in which kilns, and neither C-14 dating of associated charcoal, nor TL dating of the wares themselves. can give a more precise dating than plus or minus 100-200 years. This inability to establish a chronology for the fifteenth and sixteenth centuries has been the one frustrating aspect of the Sawankhalok kiln excavations. This same problem applies to Vietnamese and Chinese trade wares of the same period. Eventually, all three chronologies will probably be solved together. What is still sorely missing in the study of South-East Asian ceramics is a large site containing trade wares which could, beyond doubt, be dated to either the fifteenth century or to the sixteenth century. When that find comes, if ever, it will be a major event.

# Klang Aow II, Gulf of Thailand, Zhengde-type



Chinese blue & white, Thai Sawankhalok underglaze

50-100 fragments, early 2004; Ref. *Newsletter* October 2004



# Australia Tide/Klang Aow I, Gulf of Thailand, Zhengde-type

except NO Swk underglaze, NO Sukh

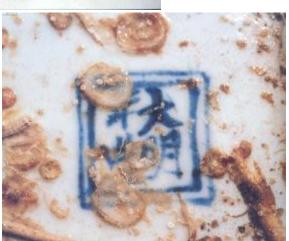




### Hongzhi group (1488-1511) base marks rare

#### 2 on Brunei Junk





# Zhengde group (1512-40) base marks more common; but for *earlier* reigns (e.g. Xuande)





Fig. 8. Three monochrome in 18.5 cm wide, 4 cm high and twice-encircled Chinese mark on their slightly convex base. Made in the great Ming dyns. The bodies are time-grained, fired. The glaze is opaque an surface exception the base whith two of the dishes, both into exactly similar underglaze bit, third, slightly chipped dish sli

# Xuande wreck (Zhengde-type): 4-character, 6-character, stylized





Hongzhi group: Burma celadon, Vietnamese





Zhengde group:

NO Burmese

**NO**Vietnamese

Hongzhi group: Swk post-classic celadon



Zhengde group: Swk postclassic celadon (mainly large bowls) + opaque white +underglaze black









Hongzhi group: Chinese celadon about 25% of total Chinese ceramics



Zhengde group: NO Chinese celadon





Hongzhi group (1488-1511): hole-bottom, wide dishes

Lena Shoal

Zhengde group (1512-40): hole-bottom saucers

Xuande wreck





#### REVIEW

## Hongzhi-type cargo, c.1488-1511

- -Sawankhlok post-classic celadon
- -Sukhothai very rare
- -Chinese celadon
- -Burmese celadon
- -Vietnamese

## Zhengde-type cargo, c.1512-1540

- -Sawankhalok post-classic celadon + monochrome white + underglaze black
- -Fair quantity Sukhothai bowls (cakra, picul)
- -NO (rare?) Chinese celadon
- -NO Burmese, NO Vietnamese

Next: style changes in Chinese blue & white ware

### Rock & peonies Hongzhi group rare



Lena Shoal



Rock & peonies: Zhengde group common



# Conch motif: Hongzhi group, with *ershu*; Zhengde group plain



### Hongzhi blue & white earliest:

Rock & peonies, rare



Lena

Santa Cruz



## Zhengde-type (Xuande wreck)





### Makara

#### Hongzhi-type







Zhengdetype (Xuande wreck)

### Zhengde group ONLY: Ribs on exterior dishes

(Xuande wreck)









## Zhengde-group ONLY: 4-horsemen, lotus-shape bowls







#### Trade ceramics offer new evidence:

- 1. S. E. Asia AD 800-850: bulk trade, Borobudur, Angkor *deva-raja* cult.
- 2. Ming ban/Ming gap
- 3. Zhenghe *celadon*
- 4. Shipwreck ceramics & the Fall of Melaka
  - a. Fewer & lesser quality Chinese ware after 1512
  - b. Vietnamese & Burmese drop out, Thailand increases export amount and variety
  - c. The 2 types of cargo very easy to identify by knowing only a few basic Chinese blue and white designs