

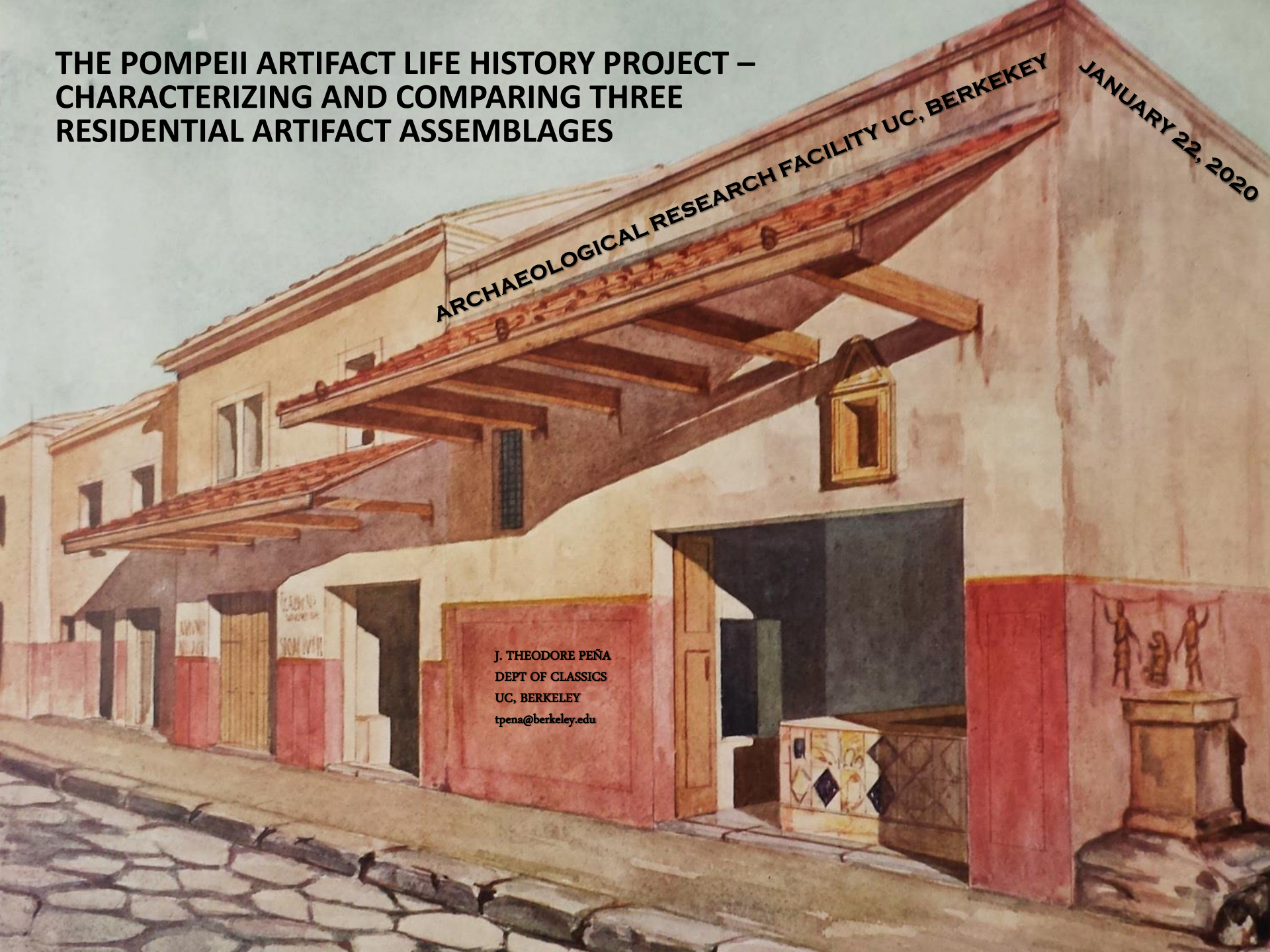


# THE POMPEII ARTIFACT LIFE HISTORY PROJECT – CHARACTERIZING AND COMPARING THREE RESIDENTIAL ARTIFACT ASSEMBLAGES

ARCHAEOLOGICAL RESEARCH FACILITY UC, BERKELEY

JANUARY 22, 2020

J. THEODORE PEÑA  
DEPT OF CLASSICS  
UC, BERKELEY  
[tpena@berkeley.edu](mailto:tpena@berkeley.edu)



**BACKGROUND**

**ROMAN POTTERY  
IN THE  
ARCHAEOLOGICAL RECORD**

THEODORE J. PEÑA



CAMBRIDGE

**ARTIFACT LIFE HISTORY:**

**MANUFACTURE**

**ACQUISITION**

**USE**

**CURATION**

**REUSE**

**RECYCLING**

**DISCARD**

**2007**

# SCHEMATIC DIAGRAM OF LIFE HISTORY OF ROMAN POTTERY

*RAW MATERIAL*

RECYCLING

MAINTENANCE

RECYCLING

MAINTENANCE

RECYCLING

MAINTENANCE

RECYCLING

MAINTENANCE

MANUFACTURE

DISTRIBUTION

PRIME USE

REUSE

DISCARD

DISCARD

DISCARD

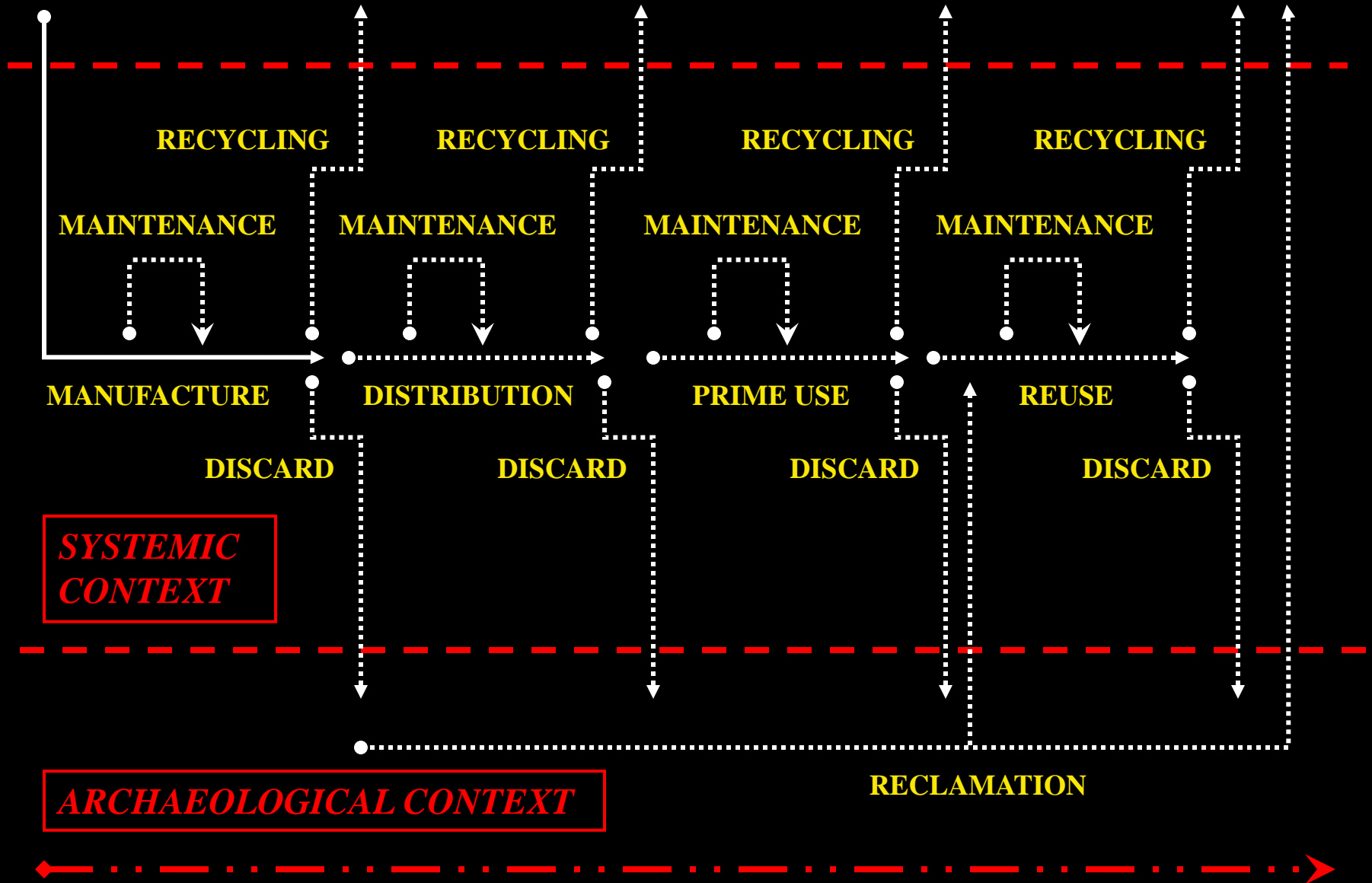
DISCARD

*SYSTEMIC  
CONTEXT*

*ARCHAEOLOGICAL CONTEXT*

RECLAMATION

*TIME*



# ACRONYM: PALHIP

**POMPEII**

**ARTIFACT**

**LIFE**

**HISTORY**

**PROJECT**





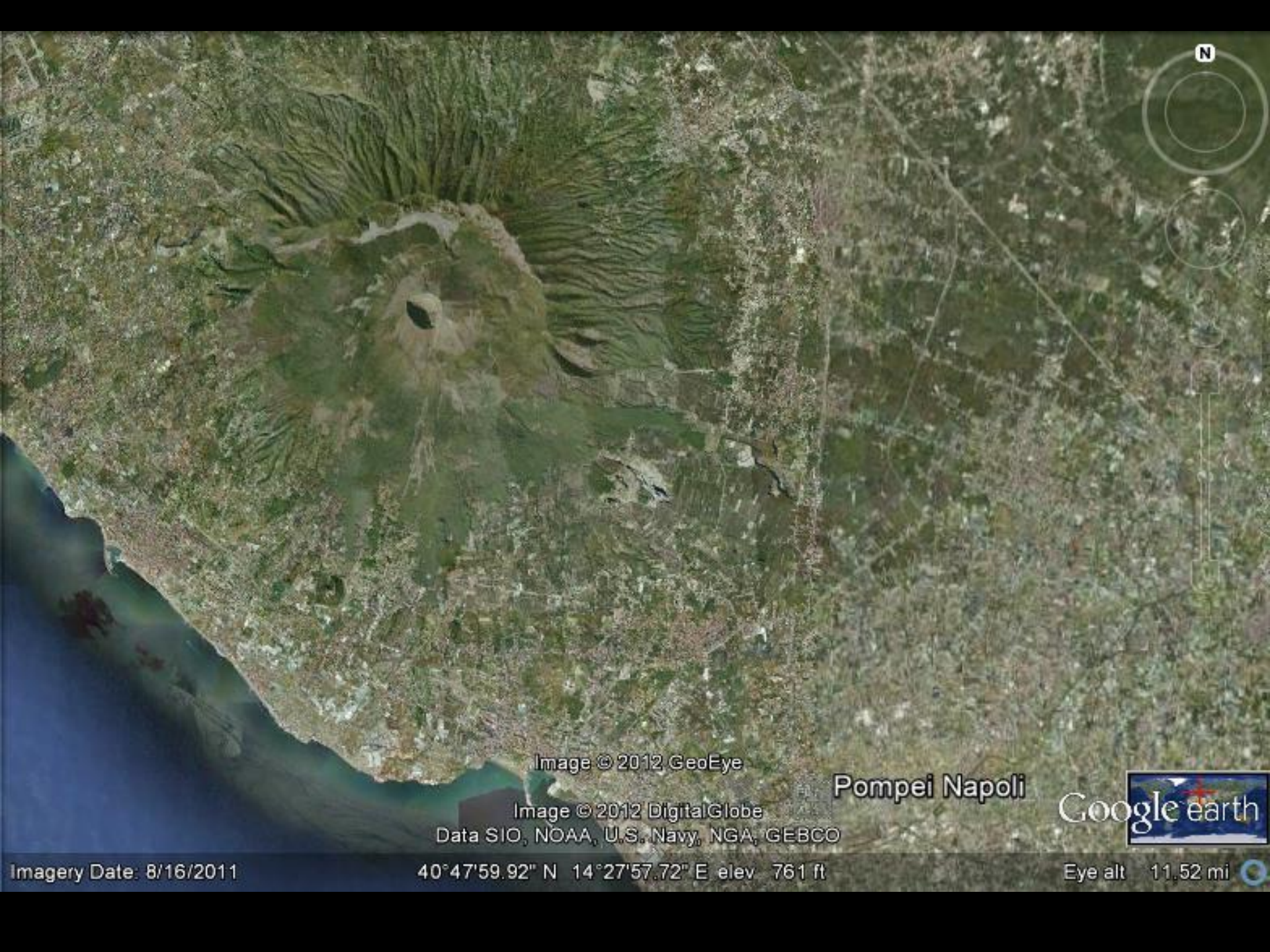


Image © 2012 GeoEye

Pompei Napoli

Image © 2012 DigitalGlobe  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO



Imagery Date: 8/16/2011

40°47'59.92" N 14°27'57.72" E elev 761 ft

Eye alt 11.52 mi

## RESEARCH GOALS

- **GENERAL GOAL: DOCUMENT LIFE HISTORY OF PORTABLE MATERIAL CULTURE AT POMPEII WITH VIEW TO ELUCIDATING PRACTICES OF CONSUMPTION IN ROMAN WORLD**
- **SPECIFIC GOAL: LEARN ABOUT MANUFACTURE, ACQUISITION, USE, STORAGE, MAINTENANCE, REPAIR, MODIFICATION, REUSE, RECYCLING, AND DISCARD OF THESE ITEMS**
- **DETAILED STUDY OF CAREFULLY SELECTED SETS OF ARTIFACTS (MOSTLY CERAMIC, GLASS, METAL, STONE) UNEARTHED IN SELECTED EARLIER EXCAVATIONS**

aquarium

ery Date: 9/12/2007



2002

40°45'05.91" N 14°29'20.91" E elev. 104 ft

Google e

Eye alt 384

# PROJECT OVERVIEW

- **PHASE 1: FIVE-YEAR PROGRAM CARRIED OUT 2012-2016 INVOLVING CHARACTERIZATION OF SETS OF ARTIFACTS FROM VARIOUS INFORMATIVE CONTEXTS AT POMPEII AND SITES IN ITS ENVIRONS**
- **CONSISTED OF SEVEN DISTINCT “SUB-PROJECTS”**
- **PHASE 2: FIVE-YEAR PROGRAM (BEGUN 2018) FOCUSING ON ASSEMBLAGES FROM EIGHT MODEST RESIDENCES IN POMPEII INSULA I.11**

**PHASE 2:**  
***INSULA I.11* HOUSES**  
**(2018, 2019, PLANNED 2020-2022)**

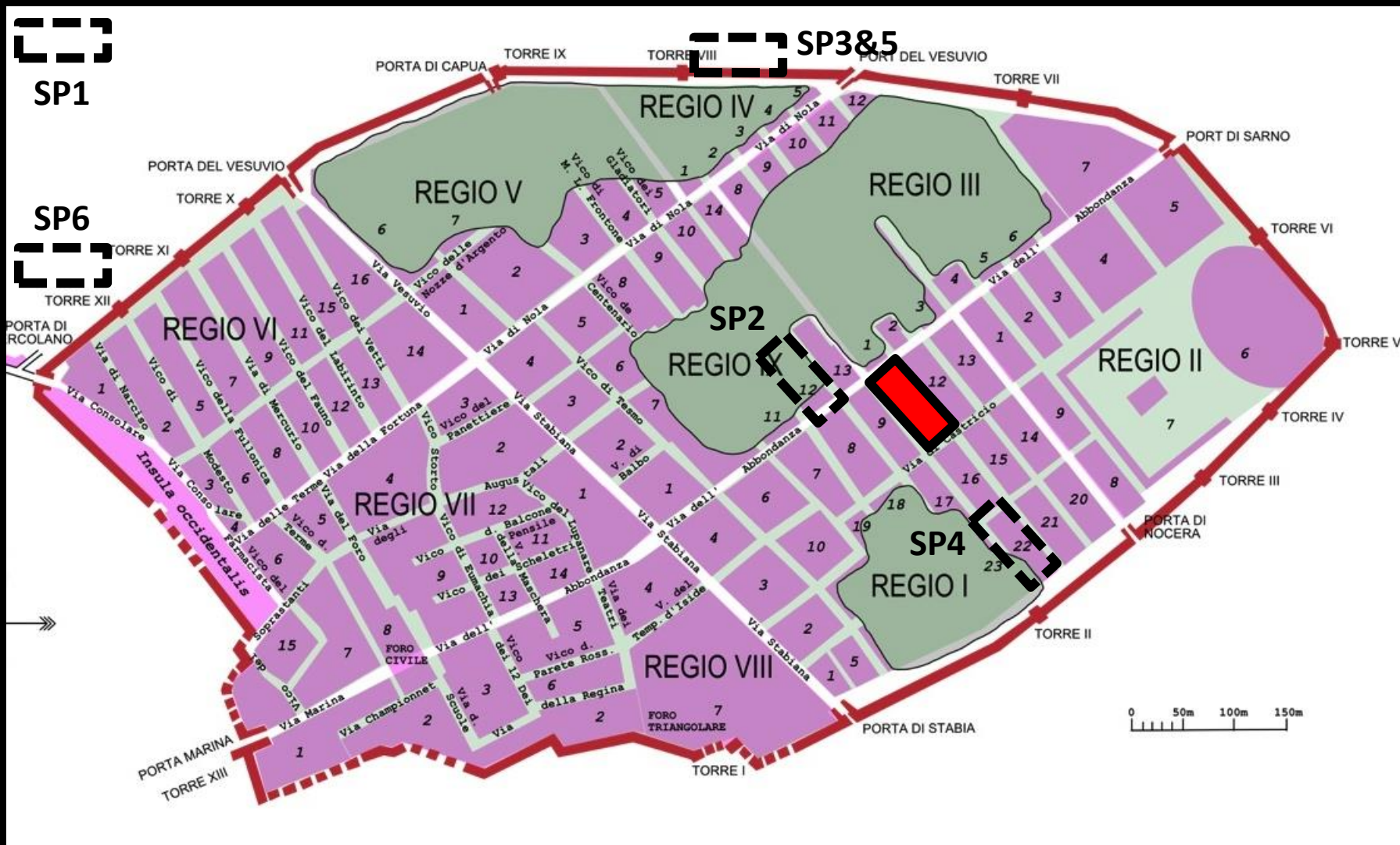
## SP6

## SP3&5

## SP2

**SP4**

REGIO







# ***INSULA I.11***

**EXCAVATED BY SOPRINTENDENZA**

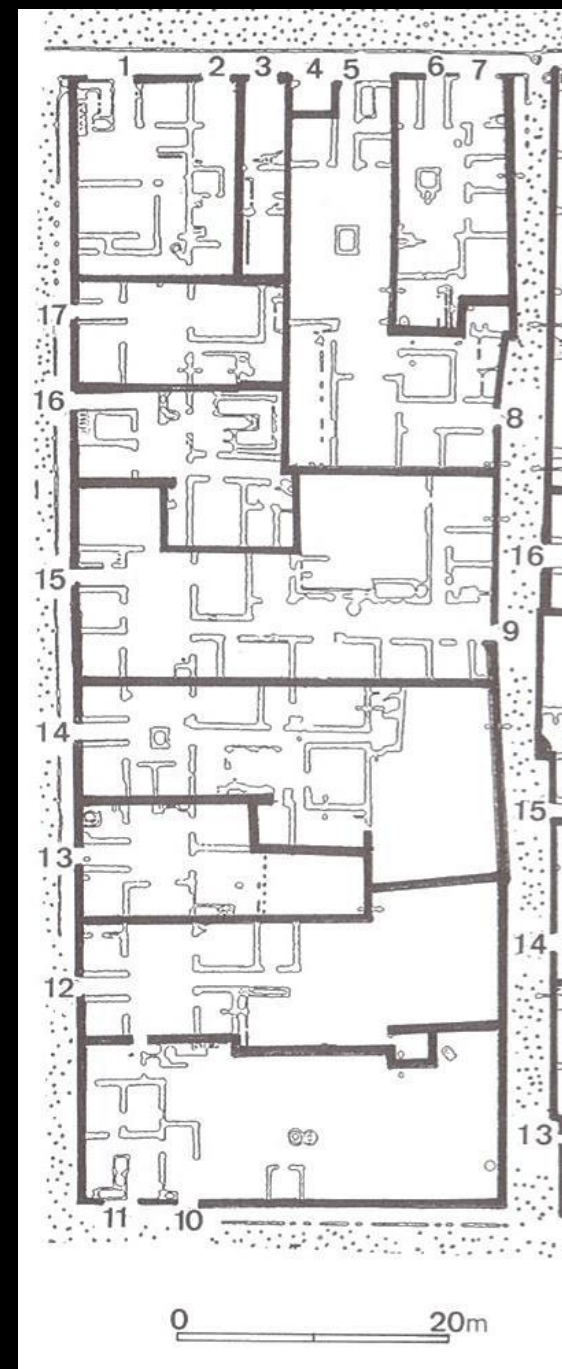
**1912-1913 UNDER DIRECTION OF VITTORIO  
SPINAZZOLA**

**1952-1964 UNDER DIRECTION OF AMEDEO MAIURI**

**SHORT STUDIES OF PROPERTIES 1980S-2000S**

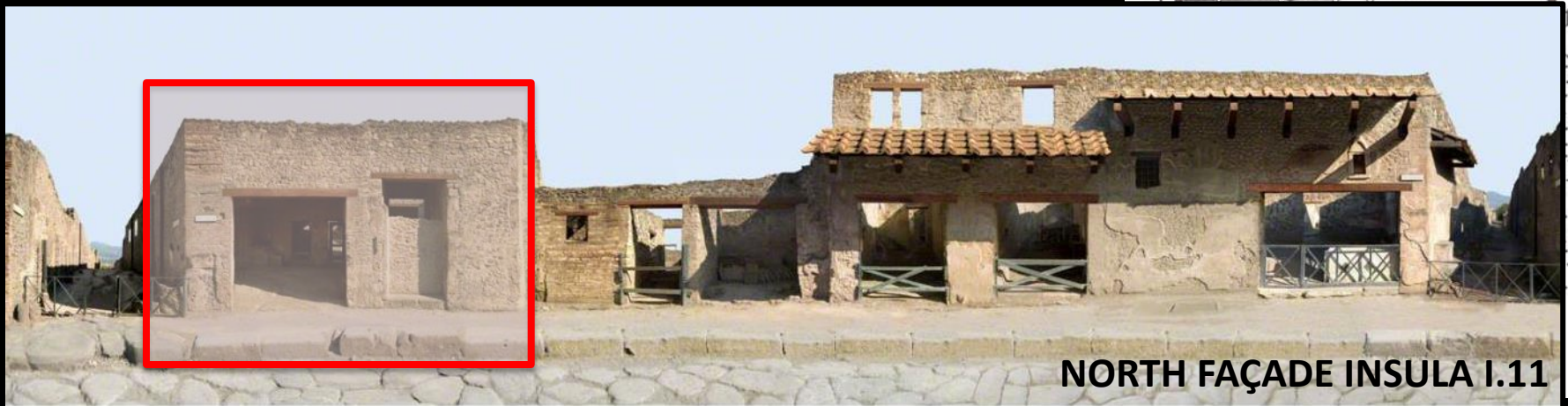
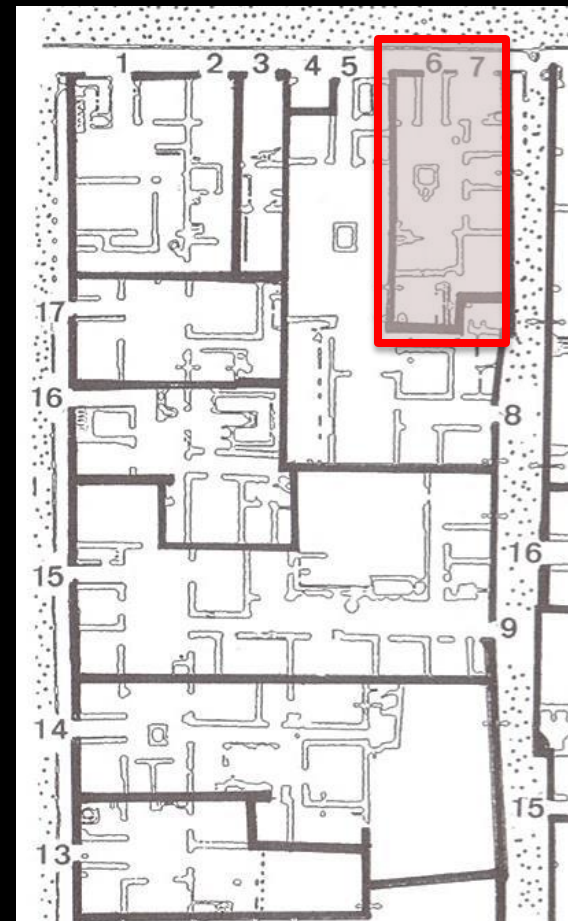
# INSULA I.11: SYNOPSIS OF PROPERTIES

Address	Use	Name	Ground Floor 1	Ground Floor 2	Quartile
I.11.1.2	<i>caupona</i> & residence	None	199 m <sup>2</sup>	190 m <sup>2</sup>	3rd
I.11.3	shop & residence	None	64 m <sup>2</sup>	65 m <sup>2</sup>	2nd
I.11.4	shop	None	10 m <sup>2</sup>	10 m <sup>2</sup>	1st
I.11.5.8	residence	Casa di L. Habonius Primus	347 m <sup>2</sup>	325 m <sup>2</sup>	3rd
I.11.6.7	residence	Casa della Venere in Bikini	181 m <sup>2</sup>	170 m <sup>2</sup>	2nd/3rd
I.11.10.11	<i>Caupona</i> , residence & vineyard	Caupona of Euxinus and Iustus	776 m <sup>2</sup>	400 m <sup>2</sup>	4th
I.11.12	residence	Casa di Euxinus		340 m <sup>2</sup>	3rd
I.11.13	residence	None	180 m <sup>2</sup>	170 m <sup>2</sup>	2nd/3rd
I.11.14	residence	Casa del Cherem	416 m <sup>2</sup>	400 m <sup>2</sup>	4th
I.11.15.9	residence	Casa del Piano Superiore	472 m <sup>2</sup>	460 m <sup>2</sup>	4th
I.11.16	<i>hospitium</i> & residence	Casa di Saturninus	173 m <sup>2</sup>	150 m <sup>2</sup>	2nd/3rd
I.11.17	residence	Casa Imperiale	136 m <sup>2</sup>	140 m <sup>2</sup>	2nd



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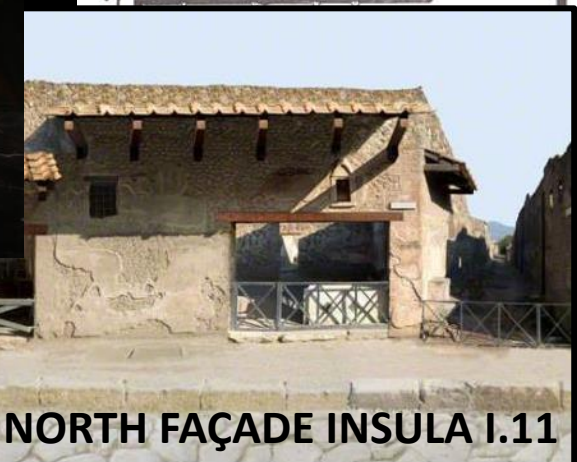
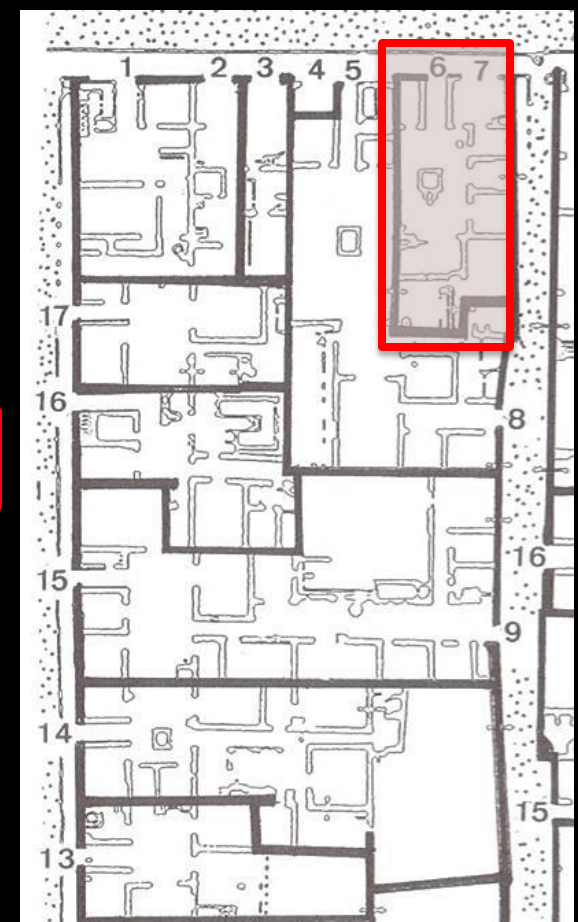
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NORTH FAÇADE INSULA I.11

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I.11.10.11	<i>Caupona</i> , residence & vineyard	Caupona of Euxinus Iustus
I.11.12	residence	Casa di Euxinus
I.11.13	residence	None
I.11.14	residence	Casa del Cherem
I.11.15.9	residence	Casa del Piano Supe
I.11.16	<i>hospitium</i> & residence	Casa di Saturninus
I.11.17	residence	Casa Imperiale



NORTH FAÇADE INSULA I.11



THE CASA DELLA VENERE IN BIKINI

(I 11, 6-7)

AT POMPEII:

ITS DECORATION AND FINDS

MELINDA ARMITT

DEPARTMENT OF CLASSICS

UNIVERSITY OF ADELAIDE

September, 1989



THE CASA DELLA VENERE IN BIKINI

(I 11, 6-7)

AT POMPEII:

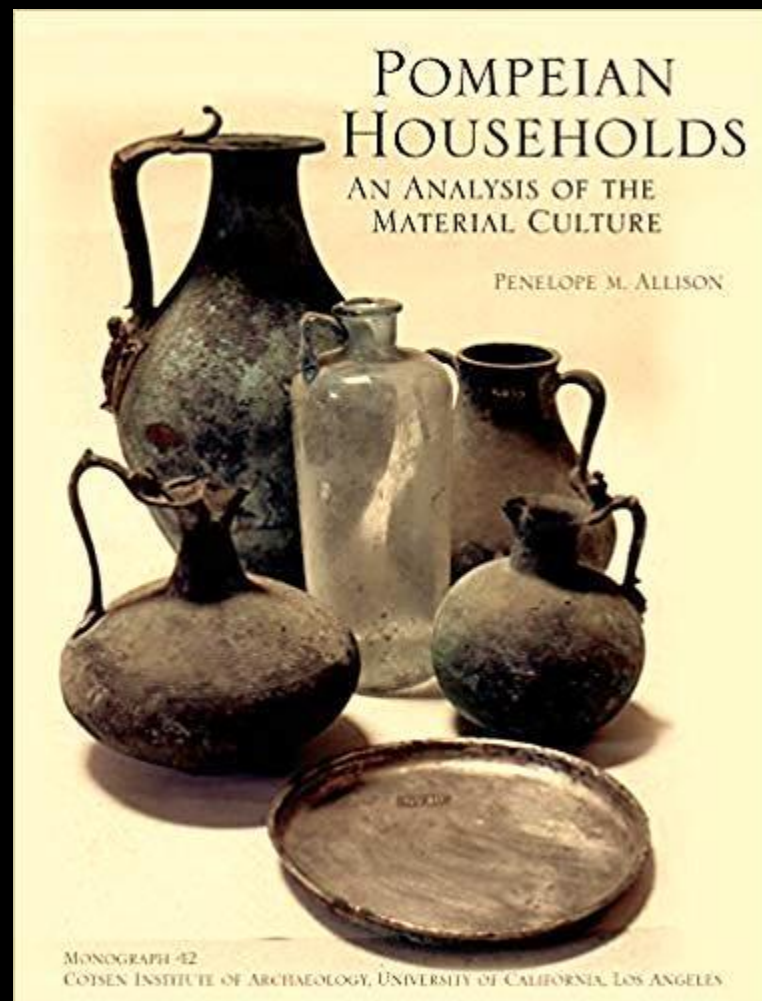
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AT POMPEII:

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September, 1989



POMPEIAN  
HOUSEHOLDS  
AN ANALYSIS OF THE

HOUSEHOLD CONSUMPTION IN ANCIENT ECONOMIES:  
POMPEII AND THE WIDER ROMAN WORLD

Thesis submitted for the degree of  
Doctor of Philosophy  
at the University of Leicester

by

Nicholas Martin Ray  
BSc. MPhil. (Bradford)

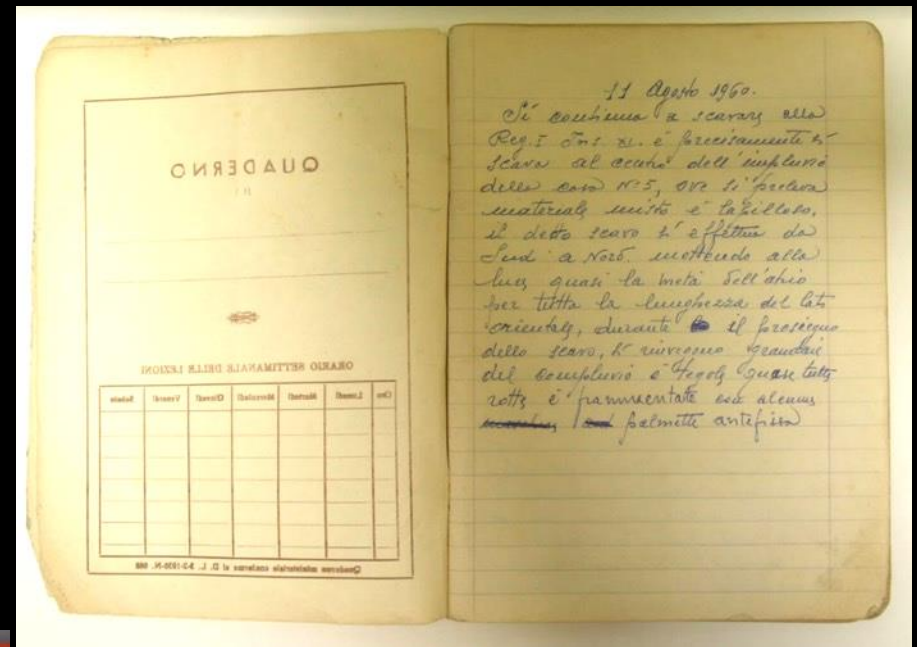
School of Archaeology and Ancient History  
University of Leicester

August 2009









## DIARIO DEGLI SCAVI

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17	18	19	20
21	22	23	24
25	26	27	28

Soprintendenza Archeologica di POMPEI  
Ufficio Scavi di

Oggetto Copertura C. I. C. n. 1

Inventario n° 24337

Dimensioni: alt. = \_\_\_\_\_ lung. = \_\_\_\_\_ spess. = \_\_\_\_\_ Ø = \_\_\_\_\_

Anno di Immissione \_\_\_\_\_ Provenienza: Regio \_\_\_\_\_ Insula \_\_\_\_\_ N. \_\_\_\_\_

Casa \_\_\_\_\_ Edificio \_\_\_\_\_

Villa \_\_\_\_\_ Altre prov. \_\_\_\_\_

Coll. definitiva C. I. C. n. 1 Coll. provv. \_\_\_\_\_

NUMERO D'INVENTARIO

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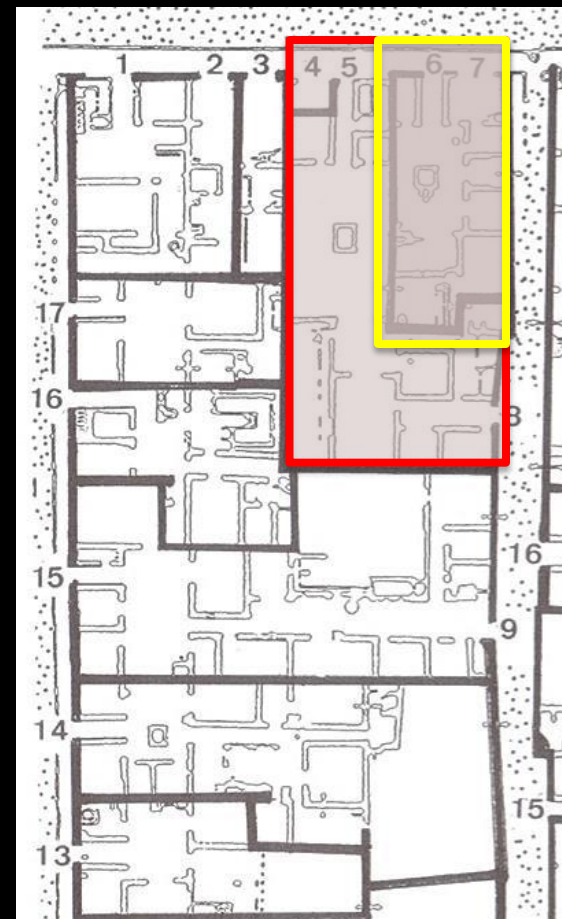
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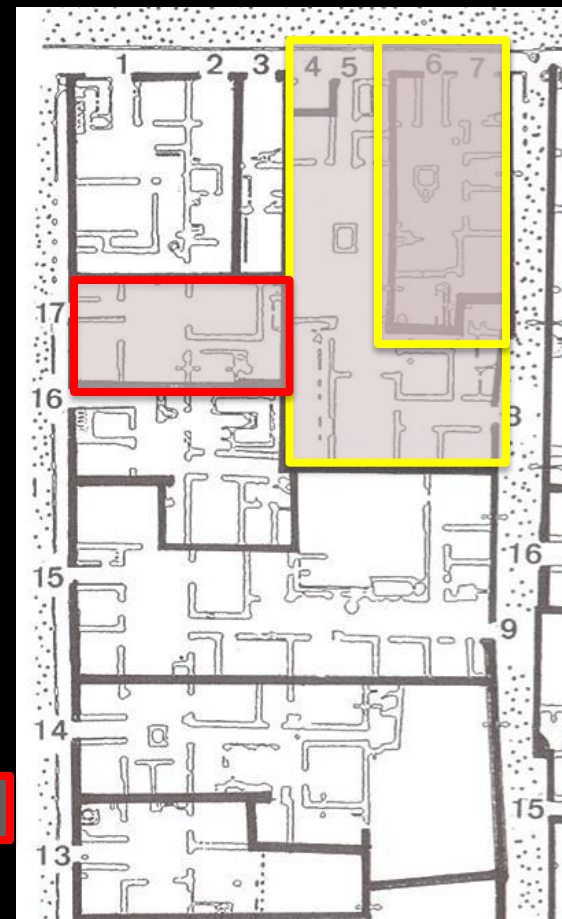
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		Primus			
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NORTH FAÇADE INSULA I.11

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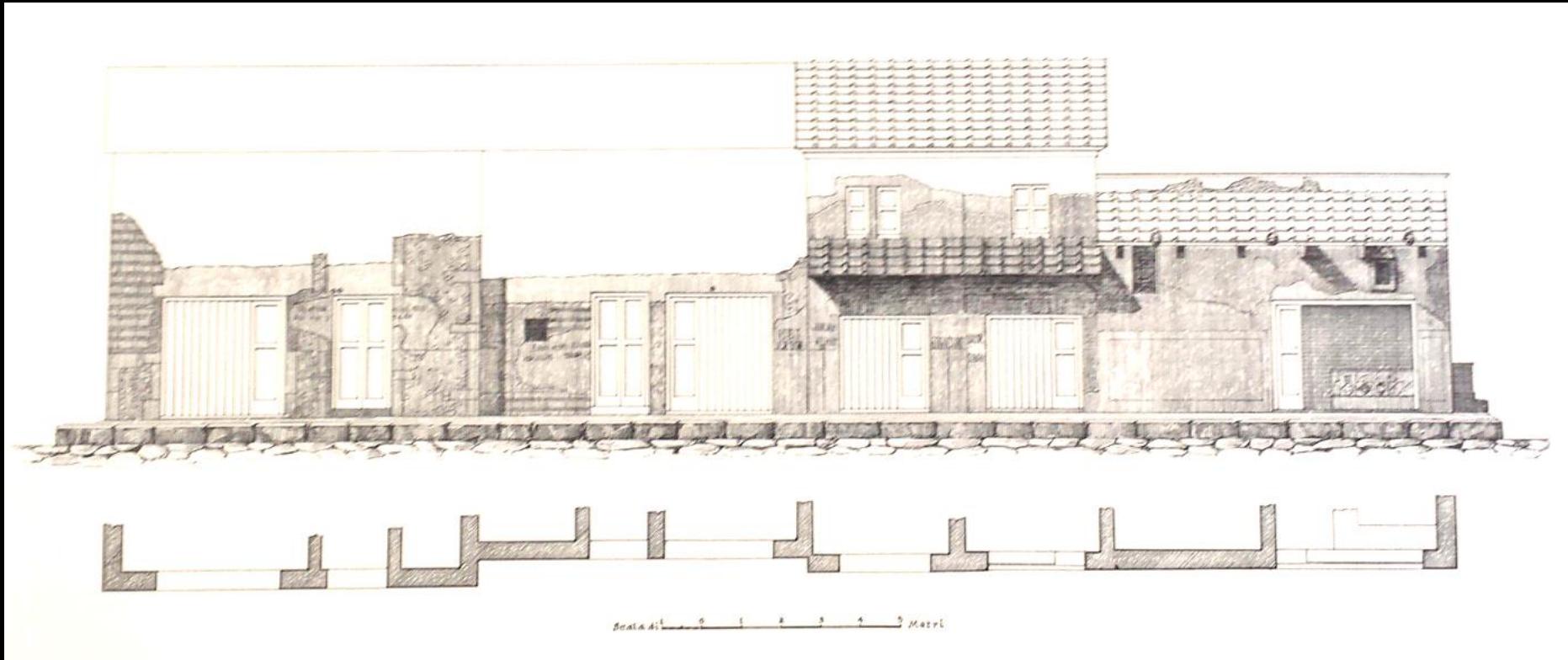


NORTH FAÇADE INSULA I.11

***BRONZE SEAL RING FROM INSULA I.11.17  
WITH NAME LUCIUS CAELIUS IANUARIUS***






## PLAN & ELEVATION OF NORTH FAÇADE OF INSULA I.11 (SPINAZZOLA 1953)





# **DOCUMENTATION (DATABASE)**



BASIC INFORMATION	GRAPHICS	MEASUREMENTS	MANUFACTURE	CONDITION	TEXTS	ANALYSES
<b>DATABASE ENTRY NUMBER</b>			<b>PALHIP NUMBER</b>			
iPad photo(s) <input type="text" value="Taken"/>			Microphoto(s) <input type="text" value="Taken"/>		SLR views needed <input type="text" value=""/>	
SLR photo(s) <input type="text" value="Taken"/>			Drawing(s) <input type="text" value="Not needed"/>		General views. <div>             Details:             <ul style="list-style-type: none"> <li>Markers stamp at center of floor (with raking light)</li> <li>Abrasion of slip on upper surface</li> <li>Gouges in floor</li> <li>Abrasion slip on resting surface ring foot</li> <li>Oblique raised features on exterior lower wall (if possible under taking light)</li> </ul> </div>	
<b>General photo</b> <div>  </div>			<b>Drawing number</b> <div> <input type="text" value="No published drawing."/> </div>			
<b>Drawing</b> <div>  </div>			<b>Microphoto of fabric</b> <div>  </div>			

TS	ANALYSES
2091	
terior	13.5
terior	
erved	
mum	
drying/firing.	
ntact	1508
carbonate patches (fabric)	
de foot.	

XTS	ANALYSES
2091	
<p>ght raised areas that a exterior face ring g foot smooth, with</p> <p>below) or turned? are unusual and may</p>	
<p>rt of resting surface - sting surface. One</p> <p>wn onto interior face</p> <p>imeter ca. 13 cm)</p>	

S	ANALYSES
091	
	rim fragments. age occurred
	ber in ink over
	along edges of ing edges of facets and perhaps
	e, 1 radial) on
	over wall to ring
	ected to n deliberate

[illegible]

ANALYSES

BASIC INFORMATION		GRAPHICS		MEASUREMENTS		MANUFACTURE		CONDITION		TEXTS		ANALYSES	
DATABASE ENTRY NUMBER						PALHIP NUMBER 2091							
Diameter rim - exterior (cm)		34.3		Diameter rim - interior		32.7		Diameter base - exterior		13.5			
				Diameter - minimum interior				Diameter- maximum exterior					
Height - maximum				Height - base to rim		8.6-9.0		Height - maximum preserved					
Thickness wall - maximum (mm)		6		Thickness wall - minimum		6		Width handle - maximum					
Other dimension(s) /notes on measurements		Width resting surface 0.9. Note variability in values for height - base to rim, reflecting warping of wall of vessel during drying/firing.											
Weight - actual (gm)		1506		Weight - estimated intact		1508							
Weight correction notes		2 g added to measured value to take into account chips missing from rim.											
Fabric characterization surface		Weathered break		Fabric number				Fabric name/ attributes		Fine fabric with dense carbonate patches (not standard Arretine fabric)			
Fabric color (Munsell name/ number)		Pale red (10R 6/4).											
Surfacing type		Gloss slip											
Surfacing location and characteristics		Even, highly glossy red (10R 4.5/6) on all surfaces except inner face ring foot and area inside foot.											

TEXTS	ANALYSES
2091	
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<p>t of resting surface - sting surface. One</p> <p>wn onto interior face</p>	
(meter ca. 13 cm)	

S	ANALYSES
091	
	rim fragments. age occurred
	number in ink over
	along edges of ing edges of facets and perhaps
	se, 1 radial) on
	use well to ring
	ected to

[illegible][illegible]


BASIC INFORMATION		GRAPHICS		MEASUREMENTS		MANUFACTURE		CONDITION		TEXTS		ANALYSES	
DATABASE ENTRY NUMBER						PALHIP NUMBER						2091	
<u>Raw material preparation</u>													
Evidence													
Process													
<u>Forming</u>													
Evidence		<p>Exterior: upper wall has gouges and medium facets; lower wall has striations and some gouges and faint raised areas that radiate outward obliquely from outer face of ring foot to edge of lower wall; irregular groove at juncture exterior face ring foot smooth with gouge near bottom; interior face ring foot smooth with faint striations; area inside ring foot smooth, with faint striations and swirl at center.</p> <p>Method of forming ring foot not clear - attached as separately thrown piece (as in sequence presented below) or turned? Appears not to have typical evidence of a turned ring foot, while oblique raised features on lower wall are unusual and may be related to attaching of foot.</p>											
Process		<ol style="list-style-type: none"> <li>1A. Blank thrown</li> <li>1B. Ring foot thrown</li> <li>2. Blank mounted on wheel in inverted position</li> <li>3. Upper and lower (?) wall turned</li> <li>4. Ring foot attached and lower wall smoothed</li> <li>5. Vessel mounted on wheel in right-side up position</li> <li>6A. Decoration cut in floor (grooves, chattering)</li> <li>6B. Maker's stamp impressed in floor</li> <li>7. Vessel slipped</li> </ol>											
<u>Surfacing</u>													
Evidence		Slip covers all surfaces except inner face of ring foot and area inside ring foot. At least a substantial part of resting surface - and perhaps all of it - slipped, though somewhat difficult to determine due to substantial abrasion of resting surface. One finger (thumb?) print in slip on lower wall at junction with ring foot.											
Process		Vessel dipped in slip in inverted position to level of lower edge of ring foot. One drip of slip running down onto interior face of ring foot and two small patches of slip in area inside ring foot.											
<u>Drying/firing</u>													
Evidence		Three irregular patches of rough slip on floor at/immediately outboard of innermost pair of grooves (diameter ca. 13 cm) equally spaced at ca. 1, 5, and 9 o'clock. Diameter matches diameter of ring foot.											
Process		Vessel had a vessel of similar dimensions set inside it for firing (supported on 3 spacers?).											

S	ANALYSES
091	
	rim fragments. age occurred
	ber in ink over
	along edges of edges of facets and perhaps
	e, 1 radial) on
	use wall to fine
	ected to n deliberate

[illegible]

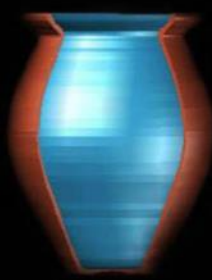
ce (5)



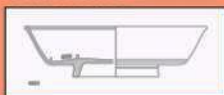
BASIC INFORMATION	GRAPHICS	MEASUREMENTS	MANUFACTURE	CONDITION	TEXTS	ANALYSES
DATABASE ENTRY NUMBER				PALHIP NUMBER 2091		
Maker's stamp(s)	In planta pedis makers stamp in floor, slightly off center. Text: GN> <u>A</u> >PL					
Graffito(s)	Not present.					
Dipinto(s)	Not present.					
Image 1						
Image 2						
Epigraphy notes	Needs to be researched.					

## ANALYSES

ce (5)

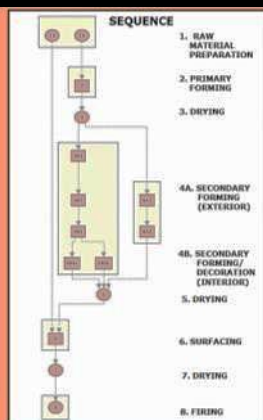


# ITALIAN SIGILLATA FORM 220.01



## MANUFACTURING OPERATIONS

- 1A. PASTE PREPARED
- 1B. SLIP PREPARED
2. BLANK THROWN ON WHEEL
3. BLANK PARTIALLY DRIED
- 4A1. BLANK REMOUNTED ON WHEEL  
RIGHTSIDE UP
- 4A2. LOWER WALL AND BASE TURNED  
UPSIDE DOWN
- 4B1. BLANK REMOUNTED ON WHEEL  
UPSIDE DOWN
- 4B2. INTERIOR SMOOTHED AND SHAPED
- 4B3. GROOVES CUT IN WALL AND FLOOR
- 4B4a. CHATTERING CUT IN FLOOR
- 4B4b. MAKER'S STAMP IMPRESSED IN FLOOR
5. VESSEL DRIED
6. VESSEL SLIPPED
7. SLIPPED VESSEL DRIED
8. SLIPPED VESSEL FIRED



## BASIC INFORMATION

## GRAPHICS

## MEASUREMENTS

## MANUFACTURE

## CONDITION

## TEXTS

## ANALYSES

## DATABASE ENTRY NUMBER

PALHIP NUMBER 2091

3-D model

Displacement  
(cu mm)

Maximum capacity  
(ml)

Efficiency

Inferred  
capacity

Mineralogical analysis

Chemical analysis

Residue analysis

Mineralogical  
analysis details

Chemical  
analysis details

Residue  
analysis details

Production  
process  
matrix

Additional  
information  
(any kind)

Date: 2nd half of 1st c.

DL photos:

fabric (1)  
detail maker's stamp (2-3)  
detail abrasion on rim (4)  
detail abrasion on resting surface (5)  
detail cut marks in floor (6)  
chip/crack exterior wall (7)

**RESULTS**  
**(USE ALTERATIONS)**



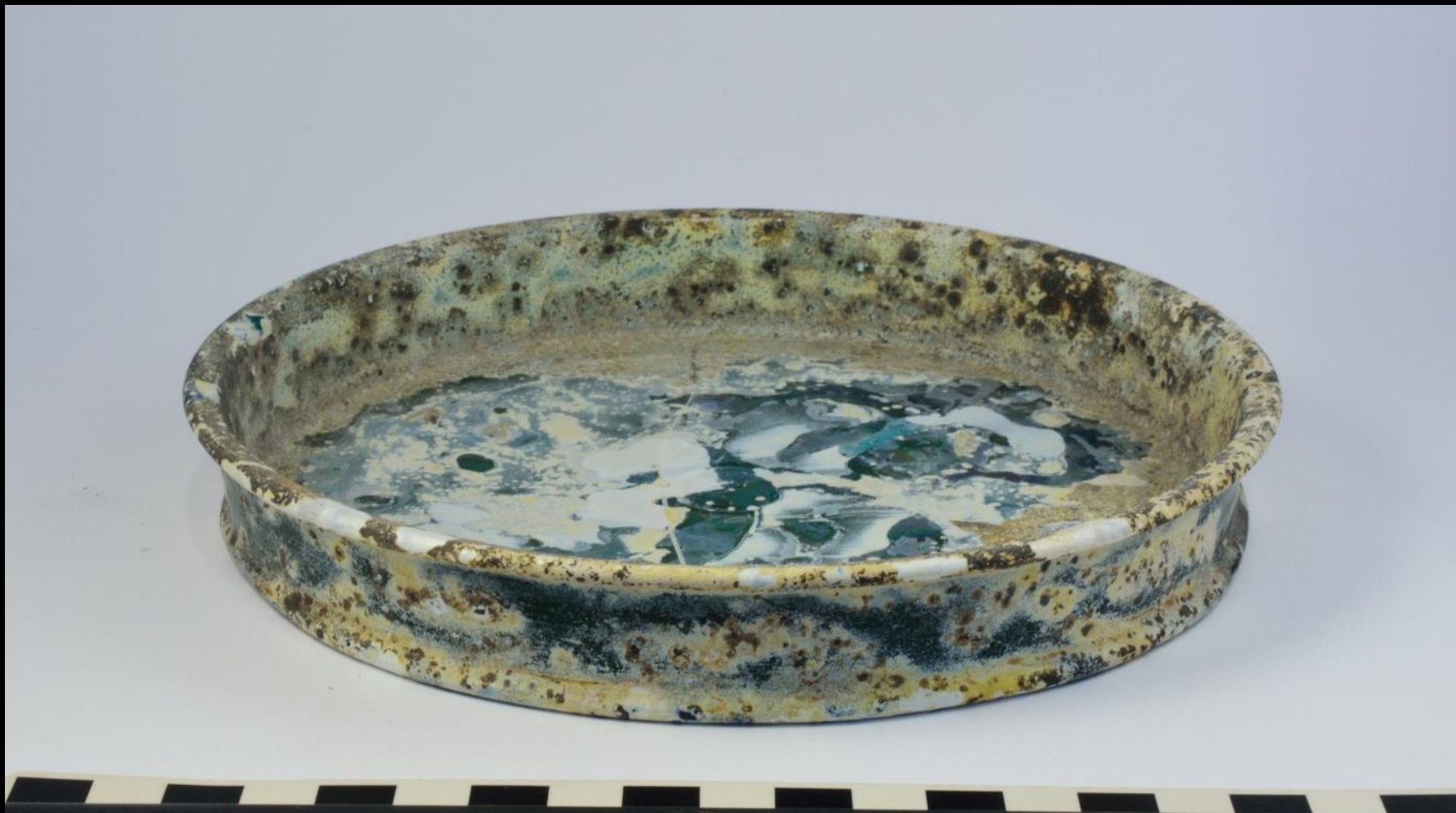
**PALHIP 2091 (C. IMPERIALE) ITALIAN TERRA SIGILLTA PLATE (CONSPECTUS 3)**





**PALHIP 2152 (C. IMPERIALE)  
GLASS BALSAMARIUM  
(CALVI A 11E/ISINGS 8)**





**PALHIP 2124 (C. IMPERIALE) GLASS PLATE (ISINGS 22)**

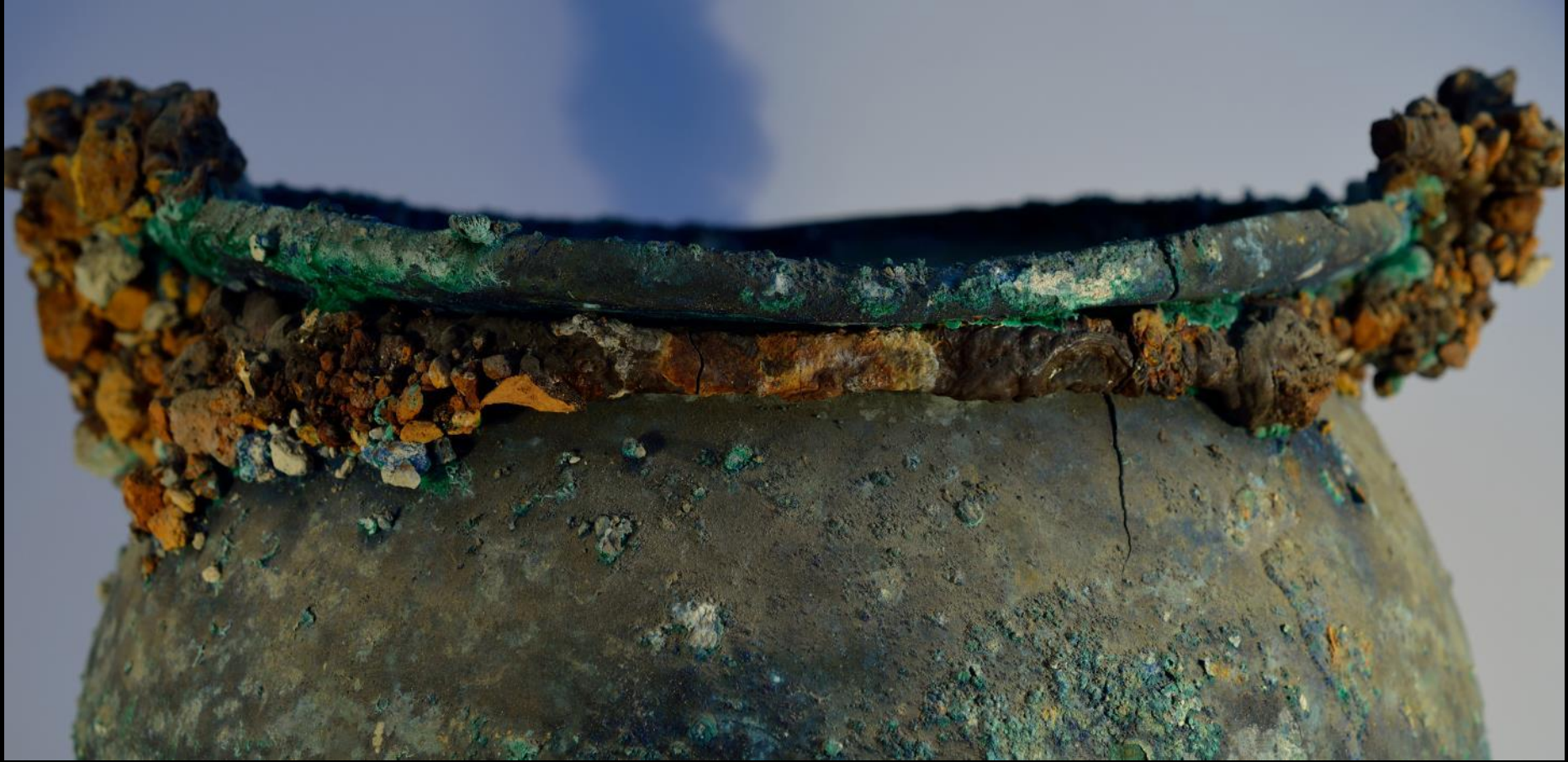




**PALHIP 2089 (C. IMPERIALE)  
GLASS FLASK/BALSAMARIUM  
(ISINGS 28A)**



**PALHIP 2029  
(C. L. HABONIUS PRIMUS)  
BRONZE AND IRON BUCKET  
(TASSINARI X 1613)**





**PALHIP 2014 (C. L. HABONIUS PRIMUS) BRONZE CAULDRON (TASSINARI V 3231)**





**PALHIP 2136 (C. IMPERIALE) BRONZE & IRON CASSEROLE (TASSINARI V 2310)**



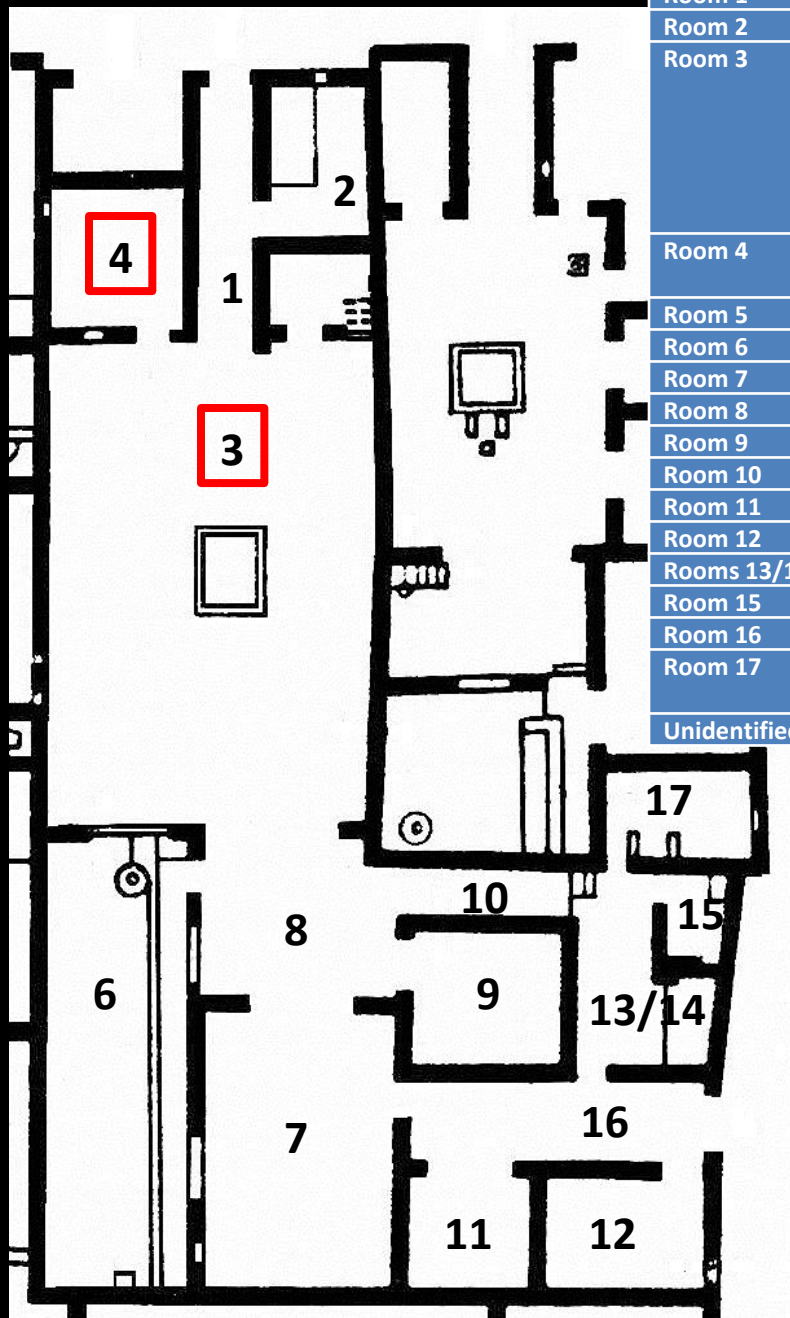


**PALHIP 2205 (C. IMPERIALE) BRONZE INKWELL**



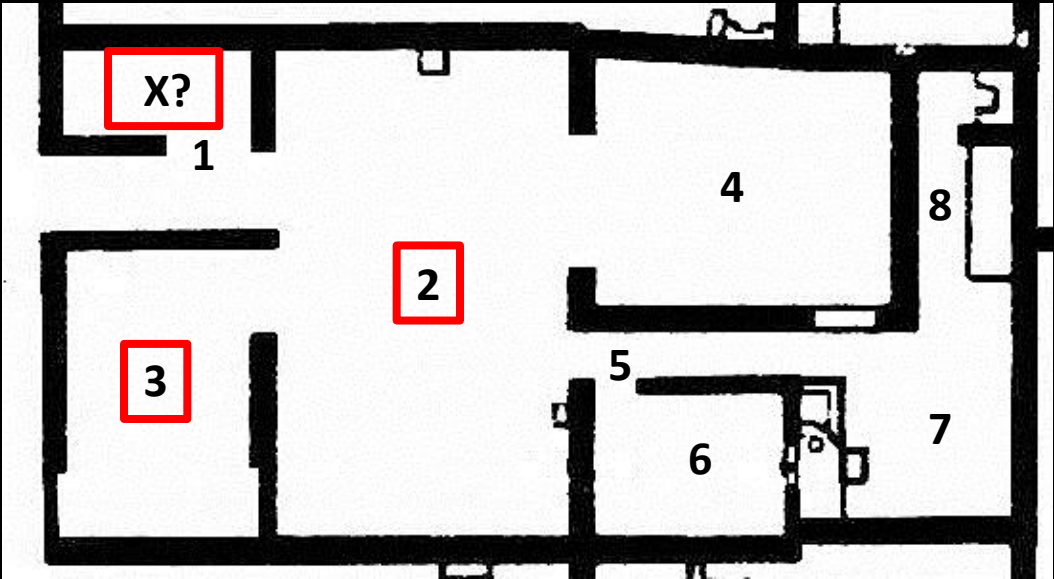
# **RESULTS**

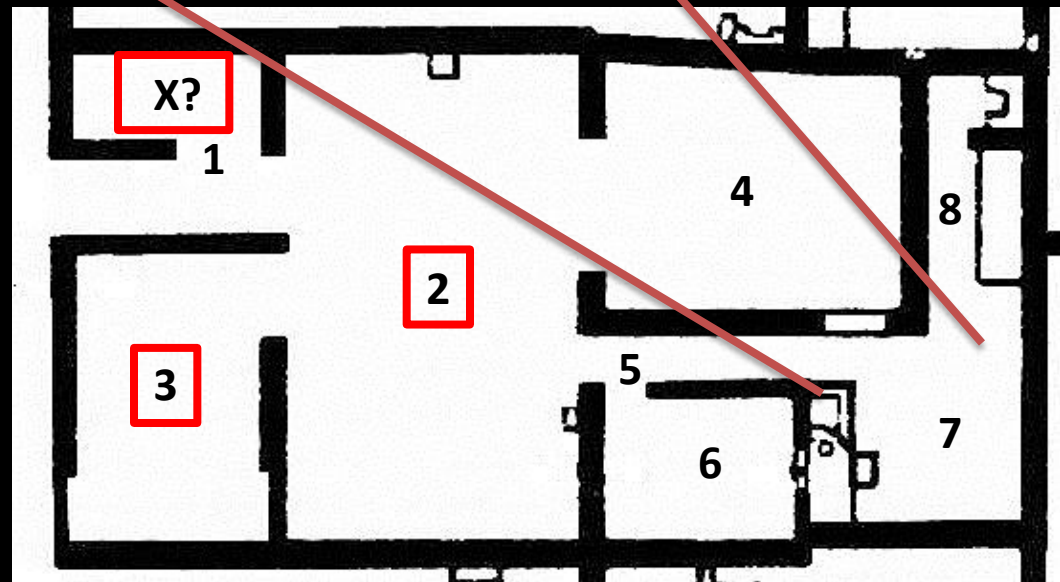
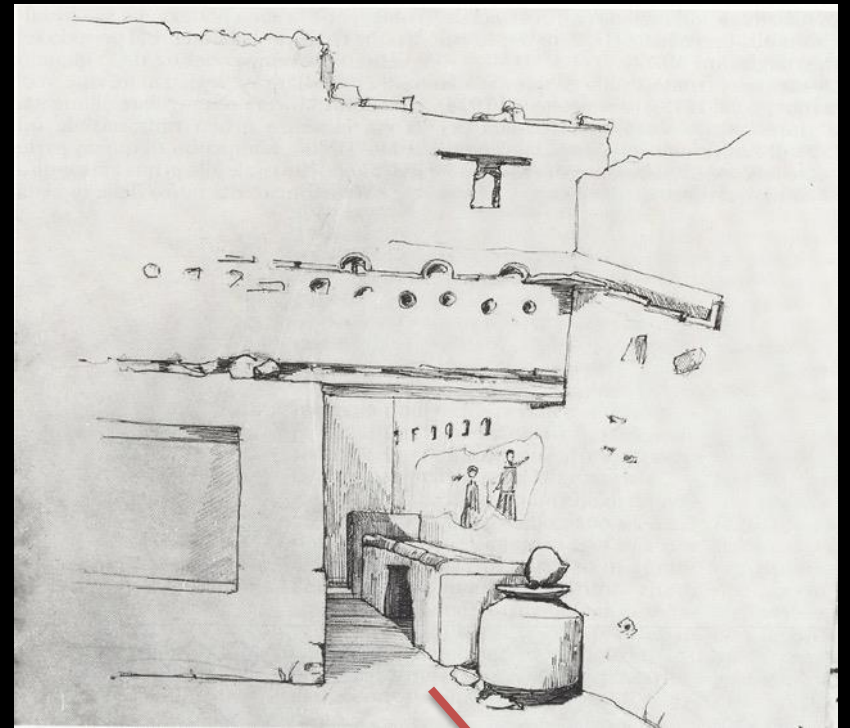
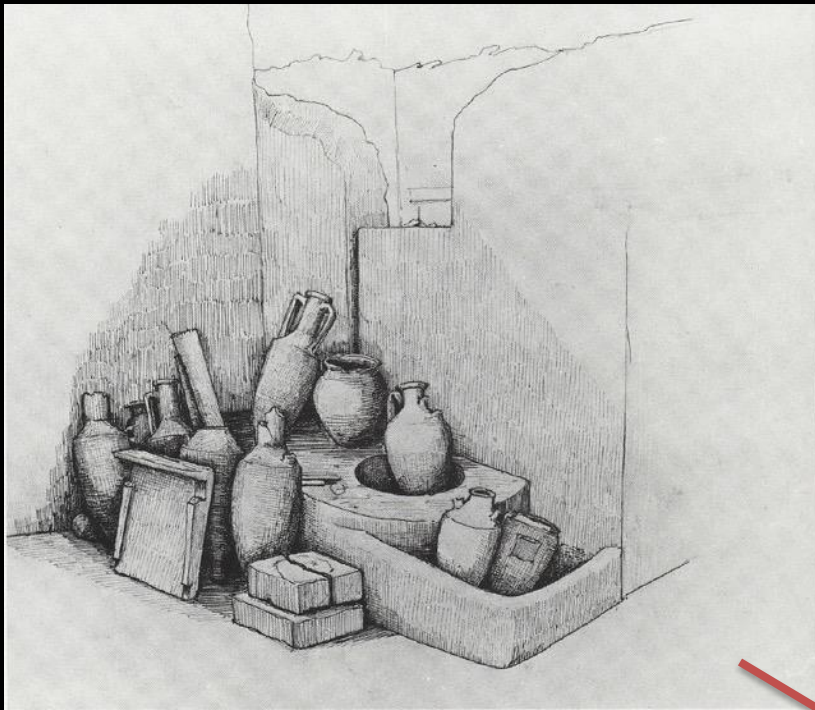
## **(ASSEMBLAGE ANALYSIS)**



Context	Type/Function	Artifact Summary	Notes
Casa di Lucius Habonius Primus (I.11.5.8) (CLHP)			
Room 1	entry corridor		
Room 2	doorman's room?		
Room 3	atrium	1, 2:3, 3, 4, 6, 18, 21, 22, 30:2, 31:3, 34:2, 38:2, 40:2, 51, 53:6, 56:8, 59:2, 60:2, 64, 73, 77, 80, 83, 85, 91:6, 99, 100, 104:2, 105	Compluviate
Room 4	bedroom?	1, 2:4, 4, 40:2, 78:4, 79, 89, 97, 98	
Room 5	stairwell?		
Room 6	garden		Open air
Room 7	living room?		
Room 8	passage room?		
Room 9	bedroom?		
Room 10	corridor		
Room 11	storeroom?		
Room 12	storeroom?		
Rooms 13/14	kitchen		
Room 15	latrine		
Room 16	entry corridor		
Room 17	pantry?		Belongs to I.11.6.7?
Unidentified		77, 94:2	

Casa Imperiale (I.11.17) (CI)			
Room 1	entry corridor/vestibule		Room X?
Room 2	atrium (with stairs)	2:3, 4:2, 8, 10, 11, 14, 16, 20:3, 21, 22, 28, 30, 31:5, 32, 34, 36, 37:6, 40:2, 41, 42, 44, 49, 50:7, 56:2, 59:25, 61, 63:2, 65, 69, 71, 72:3, 73, 75, 76, 77:20, 81:25, 82, 84, 87:4, 88, 93:3, 95, 97	Roofed
Room 3	living or dining room	16, 21, 47, 48, 59:5, 69:2, 72, 74, 84, 85, 101	
Room 4			In restoration
Room 5	corridor		
Room 6			
Room 7	court		Open air
Room 8	kitchen and latrine		
Room X		10, 21, 23, 37, 42, 45:3, 56, 85:10, 92:40, 101	ID uncertain; Room 1?
Unidentified		25, 30:2, 45, 86, 90:2, 92:8, 96	





## UNINVENTORIED AMPHORAE IN GRANAI DEL FORO STORAGE FACILITY



**SUB-PROJECT 1:  
ARTIFACTS FROM THE  
VILLA REGINA A BOSCOREALE  
(2012, 2013)**

## LOCATION OF VILLA REGINA A BOSCOREALE - 1.2 KM NW OF POMPEII

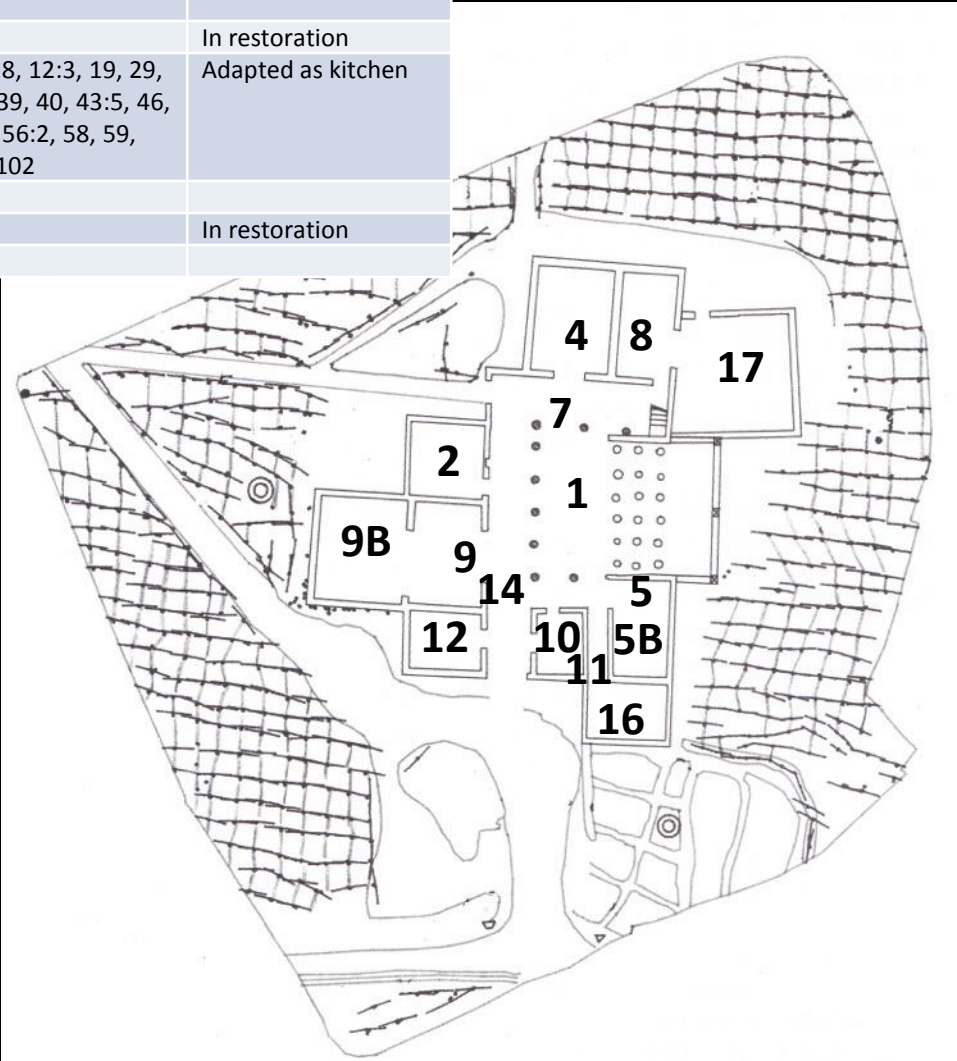




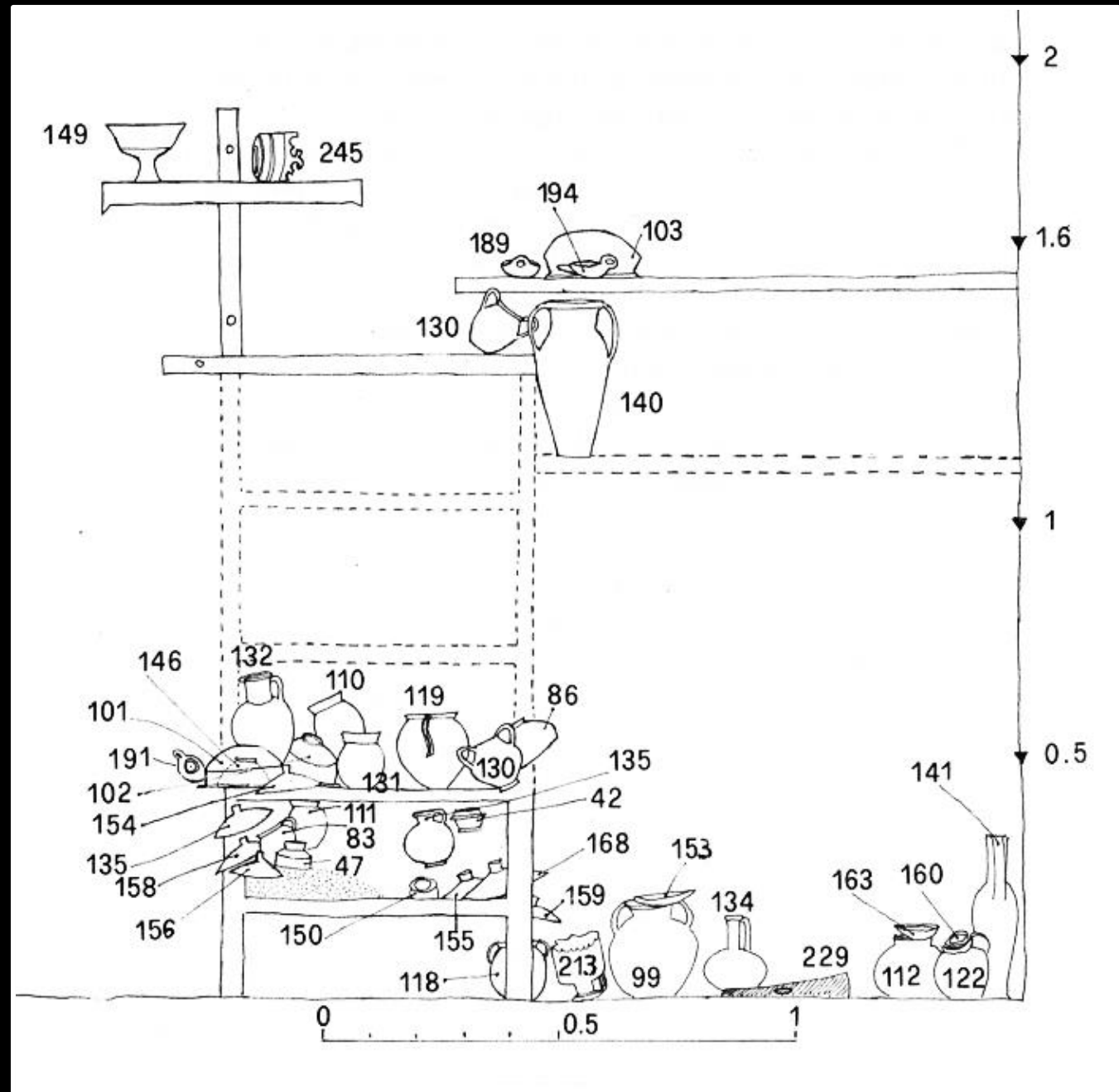
# VILLA REGINA

- EXCAVATION BY SOPRINTENDENZA, 1979-1983  
UNDER DIRECTION OF STEFANO DE CARO
- VILLA DAMAGED IN EARTHQUAKE OF AD 62 AND  
ONLY PARTIALLY OCCUPIED IN AD 79
- COMPREHENSIVE PUBLICATION OF ARCHITECTURE  
AND ARTIFACT ASSEMBLAGE IN 1994  
MONOGRAPH.

Context	Type/Function	Artifact Summary	Notes
Villa Regina a Boscoreale (VRB)			
Rooms 1/7	peristyle/cella vinaria	17, 55, 58:2, 64, 67, 70, 103	
Room 2	kitchen	9, 12, 13, 15, 33, 81	Not in use
Room 4	dining room?		Not in use
Room 5	cistern room	52	
Room 5 bis	bedroom?	2:2, 9, 26, 35, 36, 39:3, 43:2, 52	In restoration
Room 8	storeroom?		
Rooms 9/9bis	press room		
Room 10	bedroom?	9, 58:2, 62:2	
Room 11	corridor	19, 27	In restoration
Room 12	storeroom	1, 2:3, 5, 7:6, 9:8, 12:3, 19, 29, 30, 33:2, 36:2, 39, 40, 43:5, 46, 52:2, 53, 55:3, 56:2, 58, 59, 64, 66, 68, 81, 102	Adapted as kitchen
Room 14	vestibule	40	
Room 16	bedroom?	19	In restoration
Room 17	threshing floor	55	



# ROOM 12 STORE- ROOM



id	name	function/form/size	file	url	c	cap
1	0.5 bronze with iron - raised	Water acquisition/storage	bucket		1	2
2	0.5 ceramic - mold made	lighting	lamp		1	1
3	1.5 ceramic - mold made	lighting (ring)	lamp (ring/pend)			1
4	7 bronze - cast	lighting	lamp		2	2
5	bronze - cast	lighting (support (small))	lamp stand (support)			
6	7.5 bronze - cast	lighting (support (large))	lamp stand (large)			1
7	0.5 ceramic - thrown	cooling - closed	coolerpot		6	1
8	bronze - raised	cooling - closed	coolerpot			
9	0.5 ceramic - thrown	cooling - closed lid	coolerpot lid		11	
10	bronze - raised	cooling - deep open	coolerpot		3	
11	0.5 bronze with iron - raised	cooling - deep open	coolerpot		1	
12	0.5 ceramic - thrown	cooling - deep open	coolerpot		1	
13	0.5 ceramic - thrown	cooling - deep open lid	coolerpot lid		1	
14	0.5 bronze - raised	cooling - shallow open (small)	small pot with horizontal handle			
15	0.5 ceramic - thrown	cooling - shallow open	pot			
16	bronze - raised	cooling - shallow open	pot		1	
17	0.5 ceramic - thrown	cooling - shallow open lid	pot lid		1	
18	0.5 bronze - raised	cooling - closed - water boiling	cradler with lid			1
19	0.5 ceramic - thrown	food preparation (heating for other - chamber part)	basin		3	
20	bronze - raised	food preparation (heating for other - chamber part)	basin			
21	0.5 bronze - raised	food preparation (heating for other - chamber part) (small)	small oval basin		3	1
22	bronze - raised	food preparation (heating for other - chamber part)	large oval basin		1	1
23	0.5 bronze - raised	food preparation (heating for other - chamber part)	large oval basin lid			
24	1.5 bronze - cast	food preparation (heating for other - chamber part)	bedchamber			1
25	iron and bone	food preparation (consumption for other)	knife			
26	iron and ivory	food preparation (consumption for other)	knife		1	
27	0.5 bronze - raised	food grinding	small bowl			
28	bronze	food grinding	basin with handle			
29	0.5 ceramic - thrown	food consumption	plate/bowl/bowl			
30	0.5 ceramic with glass slip - thrown	food consumption	plate/bowl/bowl		1	1
31	2 glass - blown	food consumption	plate/bowl			1
32	7 bronze - cast	food consumption	plate/bowl/bowl			
33	0.5 ceramic - thrown	drink consumption (cup)	bowl, vitruvian		3	
34	2 glass - blown	drink consumption (cup)	bowl, vitruvian		1	2
35	0.5 ceramic - thrown	drink consumption (short)	cup			
36	0.5 ceramic with glass slip - thrown	drink consumption (short)	cup		1	1
37	2 glass - blown	drink consumption (short)	cup			
38	0.5 bronze	drink consumption (short)	cup		4	1
39	0.5 ceramic - thrown	drink serving (small)	small pitcher / jug			
40	0.5 glass - blown	drink serving (small)	pitcher, jug, small cylindrical bottle, small globular bottle		1	1
41	2 glass - blown - mosaic	drink serving (small)	juglet			
42	7 bronze - cast	drink serving (small)	juglet			
43	0.5 ceramic - thrown	drink serving (large)	basin, pitcher, jug		2	
44	2 glass - blown	drink serving (large)	basin			
45	7 bronze - cast	drink serving (large)	pitcher, table amphora, jug		1	
46	7.5 bronze with clay - raised	drink serving (large)	jugamur			
47	0.5 bronze - raised	drink serving accessory - straining	colander			
48	0.5 bronze - raised	drink serving accessory - decanting	funnel		1	
49	2 glass - blown	drink serving accessory - decanting	drinking vessel			
50	bronze - cast	drink serving accessory - decanting	drinking vessel, ladle		4	
51	9 glass	drink serving accessory - decanting	ladle			1
52	0.5 ceramic - thrown	food/drink storage (package (small))	small jar, very small amphora			
53	0.5 ceramic - thrown	food/drink storage (package (small))	small jar lid		1	
54	0.5 glass - blown	food/drink storage (package (small))	small - cylindrical bottle, small square bottle, small square jar			1
55	0.5 ceramic - thrown	food/drink storage (package (medium))	jar, amphora/bottle, small amphora		1	
56	0.5 ceramic - thrown	food/drink storage (package (medium))	jar lid		1	
57	2 glass - blown	food/drink storage (package (medium))	large cylindrical bottle, large square bottle, large square jar			1
58	0.5 ceramic - thrown	food/drink storage (package (large))	amphora			
59	0.5 glass - blown	high-unit value substance storage (package)	elaboration, vase/urn/jar		1	1
60	0.5 glass - blown into relief mold	high-unit value substance storage (package)	elaboration			1
61	7 rock crystal	high-unit value substance storage (package)	elaboration			
62	0.5 ceramic - hand modeled	craft production - textile - weaving	loom weight		1	
63	0.5 ceramic - cast	craft production - textile - weaving	weaver			
64	iron and wood	craft production (agriculture - chopping)	hoe			1
65	0.5 iron and bronze	craft production (agriculture - cutting)	knife			
66	2 wood?	craft production (agriculture - tool sharpening)	hoe		1	
67	0.5 iron (and leather?)	agriculture - gardening/hoesing	small tool - short handled			
68	iron (and wood?)	agriculture - hoeing	big hoe			
69	0.5 bronze - cast	weighing (small scale)	balance (steepend, pans, pendent weight)		1	
70	7 limestone	weighing (large scale)	weight			
71	0.5 bronze - cast	weighing - middle-scale	scale		1	
72	7.5 bronze with iron - cast	weighing - ink	ink well with lid			
73	0.5 bronze - cast	weaving	wool ring			1
74	0.5 bronze - cast	strongest small objects (pendant)	pawn with lid		1	
75	0.5 bronze - cast	strongest small objects (pendant)	pawn with lid			
76	7.5 marble with glazing	strongest small objects (pendant)	pawn with lid		1	
77	0.5 bronze - struck	payment/charge receipt	coin		10	1
78	0.5 bronze - struck	payment/charge receipt	coin			1
79	0.5 bronze (and leather?) - cast	payment/transport	gold stater, bit		1	
80	iron	payment	coin			
81	0.5 glass pane	entertainment? (other?) - glass pane	disk (table?)		2	15
82	0.5 iron	game	weight ring			
83	0.5 bronze - cast	game (small)	probation weight			1
84	7 bronze - cast	game	weight		1	
85	7 bronze with iron - cast	game production	ball		11	1
86	0.5 bronze	game	game			
87	0.5 bronze - cast	game	game			
88	0.5 bronze	game	game			
89	0.5 bronze - cast	game	game			
90	0.5 bronze	game	game			
91	wood and other	personal adornment	hair's look pendant			1
92	2 tooth	personal adornment	hair's look pendant		1	
93	0.5 glass pane	personal adornment	bead, pendant			1
94	0.5 bronze	personal adornment	bead		10	
95	0.5 bronze	personal adornment	bead, pendant			
96	0.5 bronze - cast	personal adornment	finger ring, bracelet			1
97	0.5 bronze and wood - cast	personal adornment	clasp		1	
98	0.5 bronze (and leather?) - cast	personal adornment	bracelet			
99	0.5 bronze	personal adornment (?)	earring, finger ring		1	1
100	0.5 gold	personal adornment (?)	ear			
101	0.5 glass pane	religion - talisman	talism			1
102	7 iron/precious stone	religion - talisman	amulet			1
103	7 bronze - cast	religion - ritr activity - pouring libation	patena		1	
104	2.5 ceramic and painted plaster - thrown	religion - ritr activity - burning incense	incense burner			
105	0.5 marble	religion - representation of divinity	small statue			
106	7 bronze - cast	religion - representation of divinity	statuette			1
107	0.5 bronze with clay and copper - cast	religion - representation of divinity	statuette			

105 ARTIFACT GROUPINGS ON BASIS OF MATERIAL, MANUFACTURING TECHNIQUE, FUNCTION, FORM & SIZE

ORDERED/GROUPED BY FUNCTION

EACH GROUP ASSIGNED COSTLINESS SCORE ON SCALE OF 0-10

NO.	VALUE	MATERIAL/TECHNIQUE	FUNCTION/Form/Size	ITEM	VRB	CI	CLHP
1	6.5	bronze with iron - raised	Water acquisition/storage	bucket	1		2
2	0.5	ceramic - mold-made	Lighting	lamp	5	5	7
3	1.5	ceramic - mold-made	Lighting (large)	lamp (compound)			1
4	7	bronze - cast	Lighting	lamp		2	2
5	7	bronze - cast	Lighting support (small)	lamp stand (tabletop)	1		
6	7.5	bronze - cast	Lighting support (large)	lamp stand (floor)			1
7	1	ceramic - thrown	Cooking - closed	cookpot	6		
8	6	bronze - raised	Cooking - closed	cookpot		1	
9	0.5	ceramic - thrown	Cooking - closed lid	cookpot lid	11		
10	6	bronze - raised	Cooking - deep open	casserole		3	
11	6.5	bronze with iron - raised	Cooking - deep open	casserole		1	
12	1	ceramic - thrown	Cooking - deep open	casserole	4		
13	1	ceramic - thrown	Cooking - deep open lid	casserole lid	1		
14	5.5	bronze - raised	Cooking - shallow open (small)	small pan with horizontal handle		1	
15	1	ceramic - thrown	Cooking - shallow open	pan	1		
16	6	bronze - raised	Cooking - shallow open	pan		2	
17	1	ceramic - thrown	Cooking - shallow open lid	pan lid	1		
18	6.5	bronze - raised	Cooking - closed - water boiling	cauldron with lid			1
19	1	ceramic - thrown	Food preparation/serving (or other - chamber pot?)	basin	3		
20	6	bronze - raised	Food preparation/serving (or other - chamber pot?)	basin		3	
21	5.5	bronze - raised	Food preparation/serving (or other - chamber pot?) (small)	small oval basin		3	1
22	6	bronze - raised	Food preparation/serving (or other - chamber pot?)	large oval basin		1	1
23	5	bronze - raised	Food preparation/serving (or other - chamber pot?)	large oval basin lid		1	
24	7.5	bronze - cast	Food preparation/serving (or other - chamber pot?)	bilobe basin		1	

**105 ARTIFACT GROUPINGS ON BASIS OF MATERIAL, MANUFACTURING TECHNIQUE, FUNCTION, FORM & SIZE  
ORDERED/GROUPED BY FUNCTION  
EACH GROUP ASSIGNED COSTLINESS SCORE ON SCALE OF 0-10**

NO.	VALUE	MATERIAL/TECHNIQUE	FUNCTION/Form/Size	ITEM	VRB	CI	CLHP
98	10	gold	Personal adornment (?)	band			1
38	9.5	silver	Drink consumption (short)	cup			2
51	9	silver	Drink serving accessory - disbursal	ladle			1
88	9	silver	Grooming	mirror with cover		1	
97	8.5	silver	Personal adornment	earring, finger ring		1	1
105	8	bronze with silver and copper - cast	Religion - representation of divinity	statuette			1
78	8	silver - struck	Payment/storage wealth	coin			4
6	7.5	bronze - cast	Lighting support (large)	lamp stand (floor)			1
24	7.5	bronze - cast	Food preparation/serving (or other - chamber pot?)	bilobe basin		1	
72	7.5	bronze with iron - cast	Writing - ink	ink well with lid		4	
46	7.5	bronze with silver - raised	Drink serving (large)	lagoena	1		
76	7.5	calcite with gilding	Storage small objects/quantities	pyxis with lid		1	
4	7	bronze - cast	Lighting	lamp		2	2
5	7	bronze - cast	Lighting support (small)	lamp stand (tabletop)		1	
32	7	bronze - cast	Food consumption	plate/dish/bowl		1	
42	7	bronze - cast	Drink serving (small)	juglet		2	
45	7	bronze - cast	Drink serving (large)	pitcher, table amphora, jug		4	
50	7	bronze - cast	Drink serving accessory - disbursal	deep dipping vessel, ladle		7	
75	7	bronze - cast	Storage small objects/quantities	pyxis with lid		1	
84	7	bronze - cast	Exercise	strigil		2	
101	7	bronze - cast	Religion - rite activity - pouring libation	patera		2	
104	7	bronze - cast	Religion - representation of divinity	statuette			2
85	7	bronze with iron - cast	Sound production	bell		11	1
61	7	rock crystal	High unit value substance storage/packaging	balsamarium		1	
100	7	semi-precious stone	Religion - talisman	amulet			1
73	6.5	bronze - cast	Sealing	seal ring		1	1
83	6.5	bronze - cast	Exercise (small)	miniature strigil			1
18	6.5	bronze - raised	Cooking - closed - water boiling	cauldron with lid			1
47	6.5	bronze - raised	Drink serving accessory - straining	colander		1	
96	6.5	bronze (and leather?) - cast	Personal adornment	buckle		1	
95	6.5	bronze and wood - cast	Personal adornment	staff?		1	
1	6.5	bronze with iron - raised	Water acquisition/storage	bucket		1	2
11	6.5	bronze with iron - raised	Cooking - deep open	casserole		1	
69	6	bronze - cast	Weighing (small-scale)	balance (steelyard, pans, pendant weight)		3	
8	6	bronze - raised	Cooking - closed	cookpot		1	
10	6	bronze - raised	Cooking - deep open	casserole		3	
16	6	bronze - raised	Cooking - shallow open	pan		2	
20	6	bronze - raised	Food preparation/serving (or other - chamber pot?)	basin		3	
22	6	bronze - raised	Food preparation/serving (or other - chamber pot?)	large oval basin		1	1
79	6	bronze (and leather?) - cast	Equine transport	pair blinders, bit			2

**ORDERED BY DESCENDING COSTLINESS SCORE**

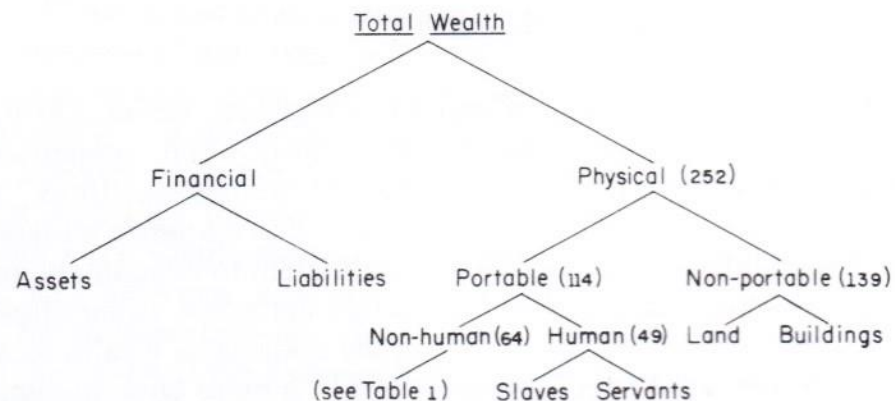


FIG. 1. Classification of wealth in Colonial America, 1774 (from Jones 1980). Figures in parentheses represent the mean value per household (in pounds sterling) in the 13 colonies in 1774). Nonhuman wealth is further broken down in Table 1.

TABLE 1  
TYPES OF NONHUMAN PORTABLE PHYSICAL WEALTH IN COLONIAL AMERICA, 1774<sup>a</sup>

Type	Value <sup>b</sup>	Categories
Producers' durable goods	31.7	A. Livestock B. Farm equipment and implements C. Nonagricultural producers' capital D. <u>Domestic production equipment (textile, etc.)</u>
Producers' perishable goods	12.5	A. Crops B. Producers' materials (lumber, etc.)
Consumers' durable goods	18.4	A. Clothing B. Furniture C. <u>Other household equipment and implements</u>
Consumers' perishable goods	1.5	A. Foodstuffs B. Other supplies (firewood, candles, etc.)

<sup>a</sup> Classification and data are from Jones (1980).

<sup>b</sup> Value figures represent the mean value per household (in pounds sterling) in the thirteen Colonies in 1774.

**SMITH, MICHAEL E. 1987. HOUSEHOLD POSSESSIONS AND WEALTH IN AGRARIAN STATES: IMPLICATIONS FOR ARCHAEOLOGY *J. OF ANTHROPOLOGICAL ARCHAEOLOGY* 6:297-335.**

TABLE 3  
HOUSEHOLD POSSESSIONS AND WEALTH IN A MEXICO CITY TENEMENT<sup>a</sup>

Types of possession	Total value, all 14 households		Mean value per household	2 top and 2 bottom extreme households			Correlation <sup>b</sup> with household totals	Use-life <sup>c</sup>
	Dollars	%		Wealthy	Poor	Wealthy ÷ Poor		
Household totals	4114 <sup>d</sup>	100.0	294	721	120	6.0	—	—
Furniture	1375	33.4	98	318	19	17.1	.883	4.5
Clothing	1127	27.4	81	114	26	4.3	.538	0.8
Tools	327	7.9	23	103	3	34.0	.749	5.1
Household equipment	294	7.1	21	24	9	2.6	.323	2.1
Bedding	279	6.8	20	41	12	3.5	.687	1.7
Kitchen utensils	230	5.6	16	21	9	2.4	.162	2.5
Jewelry	126	3.1	9	30	<1	40.0	.611	0.8
Toys	122	3.0	9	44	0	—	.384	no data
Religious items	108	2.6	8	13	35	0.4	-.288	5.1
Ornaments	92	2.2	7	13	5	2.4	.165	no data
Animals	16	0.4	1	<1	0	—	-.064	no data
Plants	10	0.3	<1	<1	<1	1.2	.077	no data
Medicine	8	0.2	<1	<1	1	0.5	-.055	no data

<sup>a</sup> Data are taken from Lewis (1973).

<sup>b</sup> Correlations are Pearson's *r*.

<sup>c</sup> Use-life represents the mean length of possession (in years) for items of each category.

<sup>d</sup> All figures are in U.S. dollars as presented by Lewis (1973).

FROM SMITH 1987

TABLE 2  
GUTTMAN SCALE ANALYSES OF HOUSEHOLD POSSESSIONS

Place and citation	Item	% of households with item
<i>A. Papeete, Tahiti</i> (Kay 1964) Number of households: 40 Coefficient of reproducibility: .98	1. Automobile	5.0
	2. Refrigerator	22.5
	3. Kerosene or gas stove	27.5
	4. Motorcycle	35.0
	5. Radio	55.0
	6. Bicycle	82.5
	7. Primus stove	95.0
<i>B. Sevettijärvi, Finland</i> (Pelto 1973) Number of households: 69 Coefficient of reproducibility: .96	1. Television	5.8
	2. Refrigerator	10.1
	3. Automobile	14.5
	4. Gas/electricity for cooking and lighting	14.5
	5. Oil heating	18.8
	6. Gas/electricity for cooking or lighting	31.9
	7. Washing machine	34.8
	8. Telephone	47.1
	9. Snowmobile	82.6
	10. Chain saw	84.0
<i>C. Temazcalcingo, Mexico</i> (DeWalt 1979) Number of households: 57 Coefficient of reproducibility: .95	1. Television	12.3
	2. Stove	15.8
	3. Wardrobe	24.6
	4. Sewing machine	24.6
	5. Raised hearth or stove	36.8
	6. Bed	63.2
	7. Radio	75.4
	8. Iron	93.0

FROM SMITH 1987



# Technologies

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## ANTHROPAC

Anthropac is a free program for cultural domain analysis. Two versions are available: the DOS version and the Windows version. The DOS version (Anthropac 4.0) will not run under Windows 7 unless you have a 3rd party DOS emulator. The Windows version consists of two programs, the freelist program and the rating program. Both DOS and Windows versions are included in the downloadable installation package.

### Description

ANTHROPAC is a menu-driven DOS program for collecting and analyzing data on cultural domains. It can collect and analyze structured qualitative and quantitative data including freelists, pile sorts, and ratings. ANTHROPAC's analytical tools include techniques that are unique to cultural domain analysis, as well as standard multivariate tools such as multiple regression, factor analysis, multidimensional scaling and correspondence analysis. In addition, the program includes data manipulation and transformation tools, plus a full-featured matrix algebra language. ANTHROPAC is accompanied by a 150-page Reference Manual, a 60-page User's Manual, and a 60-page Rating Manual (which provides basic background information on the methods of cultural domain analysis). The manuals are in electronic form, not paper.

### Collecting Proximity Data

Process qualitative pile sort and freelist data. Construct individually randomized rating/ranking questionnaires. Data collected using these instruments are automatically formatted so that the data are comparable across respondents. Compute measures of similarity between respondents.

### Analyze Proximity Data

Perform metric and non-metric multidimensional scaling of up to 180 items. Correlation analysis of similarity measures.

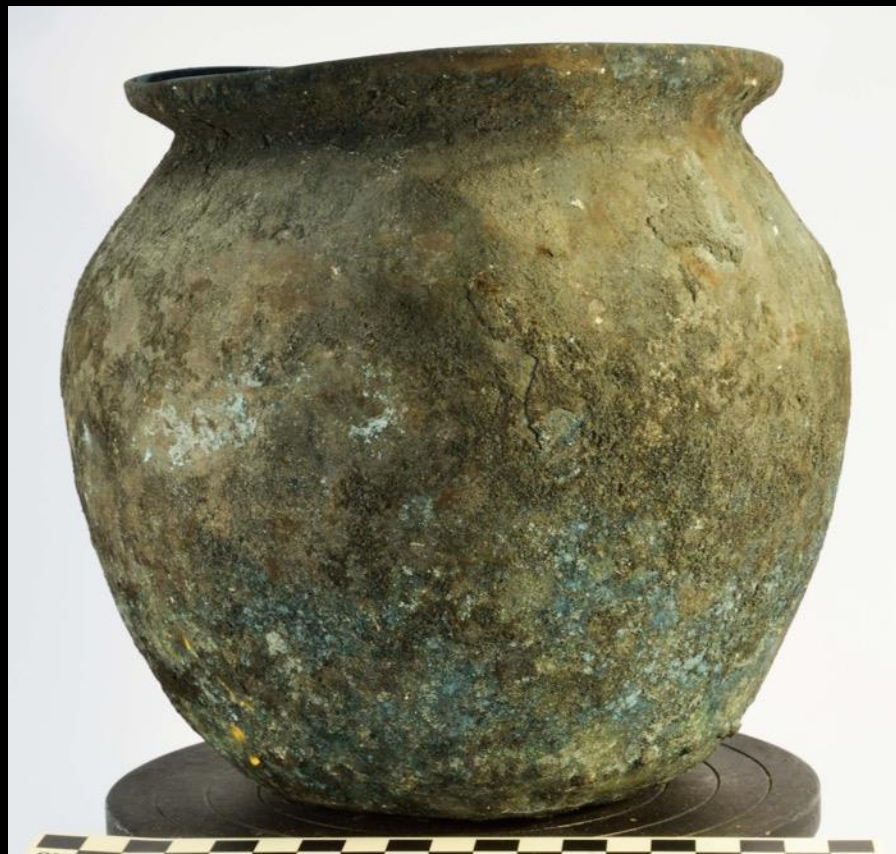
## ARTIFACT GROUPINGS ATTESTED IN ALL THREE RESIDENCES



## ARTIFACT GROUPINGS: SCALED SET - LIGHTING



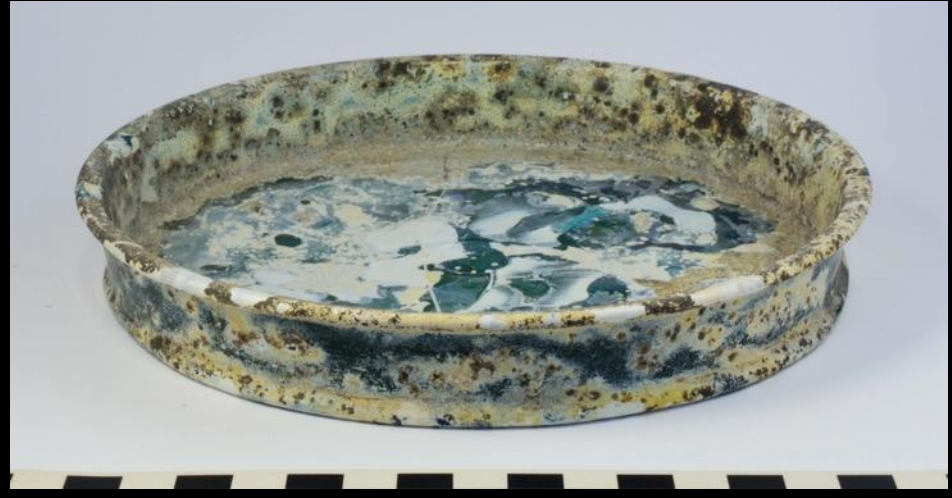
## ARTIFACT GROUPINGS: SCALED SET – COOKING (CLOSED)



## ARTIFACT GROUPINGS: SCALED SET - DRINKING



## ARTIFACT GROUPINGS: SCALED SET - EATING



## ARTIFACT GROUPINGS: SCALED SET – DRINK SERVING



**ARTIFACT GROUPINGS: SCALED SET – UNGUENT AND  
SIMILAR PACKAGING/STORAGE**



**ARTIFACT GROUPINGS: SCALED SET –  
WRITING (INK)**



## ARTIFACT GROUPINGS: SCALED SET – EXERCISE/BATHING



# **RESULTS (PRESENTATION)**



## RES ROMANAE:

*University of California, Berkeley Roman Material Culture Laboratory*

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**RES ROMANAE** is the website of the **University of California, Berkeley Roman Material Culture Laboratory (RMCL)**. Its principal purpose is to serve as a portal for reporting the results of the various research projects associated with the RMCL. It also reports on the research activities and presents the research results of the various scholars affiliated with the RMCL, including UC Berkeley faculty, graduate students, undergraduate students, and external collaborators.

**RES ROMANAE** provides the following:

brief professional profiles of RMCL affiliates;

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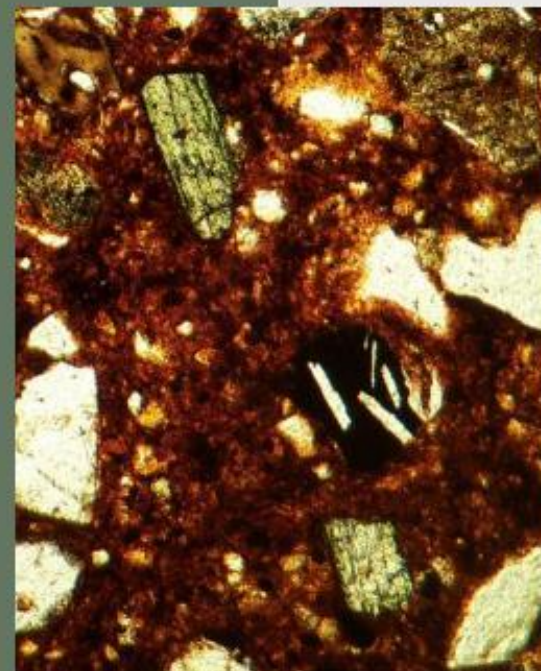
descriptions of the research projects associated with the RMCL and primary data generated by these initiatives, along with links to downloadable project-related documentation, datasets, publications, presentations, and research tools;

lists of scholarly products generated by RMCL affiliates, along with links to downloadable versions of many of these;

links to resources on the UC Berkeley campus and beyond relevant to the study of Roman material culture;

announcements about recent additions to the content of **RES ROMANAE**, the research activities of RMCL affiliates, and events on the UC Berkeley campus relevant to the study of Roman material culture;

information regarding how to contact the RMCL and how to make a financial contribution to support its activities.



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[Home](#) [Projects](#) [Pompeii Artifact Life History Project \(PALHIP\)](#)

## PALHIP - Products - Other

This page lists and in many cases provides links to downloadable versions of three kinds of products generated in connection with the Pompeii Artifact Life History Project: 1) publications; 2) unpublished reports; 3) presentations; and 4) research tools.

In the future this page will also provide links to downloadable versions of various internal project documents that describe the protocols employed for the characterization of the materials studied by the project.

It is requested that those who download any of the pre-publication manuscripts, presentations and/or research tools made available on this page acknowledge **RES ROMANAE** as the source in any scholarly product that they create that makes use of them.

### 1) Publications

Forthcoming Cheung, C., and Tibbott, G. "The *dolia* of Regio I, *Insula* 22: evidence for the production and repair of *dolia*." Manuscript submitted for *Fecisti Cretaria. Produzione e Circolazione Ceramica a Pompei. Stato degli Studi e Prospettive di Ricerca*. (September, 2016).

Forthcoming Peña, J.T. "Evidence for pottery production from the Torre VIII/Porta di Nola refuse middens at Pompeii." Manuscript submitted for *Fecisti Cretaria. Produzione e Circolazione Ceramica a Pompei. Stato degli Studi e Prospettive di Ricerca* (5,835 words, 10 figures). (September, 2016). [PENA SUBMITTED 2016B PREPUBLICATION MS](#)

2015 Peña, J.T. and Cheung, C. "The Pompeii Artifact Life History Project: conceptual basis and results of first three seasons." In C. Gambardella ed., *Heritage and technology. Mind, knowledge experience. Le Vie degli Mercanti XIII Forum Internazionale di Studi* (Fabbrica della conoscenza 56), 2115-2123. [PENA AND CHEUNG 2015 PREPUBLICATION MS](#)

2014 Peña, J.T. "The Pompeii Artifact Life History Project: conceptual background and first season's results." *Rei cretariae romanae fautorum acta* 43, 297-304. [PENA 2014 PREPUBLICATION MS](#)

### 2) Unpublished Reports

Peña, J.T. 2018 *Pompeii Artifact Life History Project (PALHIP): General Report on Project Operations and Results, 2012-2016*. Unpublished report submitted to the Soprintendenza Speciale per i Beni Archeologici di Pompei, Ercolano e Stabiae, July, 2018. 24 pp.

[PENA UNPUBLISHED REPORT 2018](#)

### 3) Presentations

2018 Peña, J.T. "The Pompeii Artifact Life History Project – the study of the life histories of objects in a Roman town." Rome Society of Archaeological Institute of America/John Cabot University, Rome, Italy, 6/14/18. [PENA ROME 2018 SLIDESHOW](#)

2017 Peña, J.T. and Cheung, C. "The Pompeii Artifact Life History Project: new methodological approaches and illustrative results." A.I.A. Annual Meeting, Toronto, Canada, 4/5/17. [PENA AND CHEUNG TORONTO 2017](#) [PENA AND CHEUNG TORONTO 2017 SLIDESHOW](#)

2017 Cheung, C., and Tibbott, G. "The *dolia* of Regio I, *Insula* 22: evidence for the production and repair of *dolia*." (poster) A.I.A. Annual Meeting, Toronto, Canada, 4/5/17. [CHEUNG AND TIBBOTT TORONTO 2017 POSTER](#)

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**AARON BROWN  
PHD DISS ON  
FOOD PREPARATION  
PRACTICES**



**SUSANNA FAAS-BUSH  
MA THESIS ON  
NEEDLES/TEXTILE  
MANUFACTURE**



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