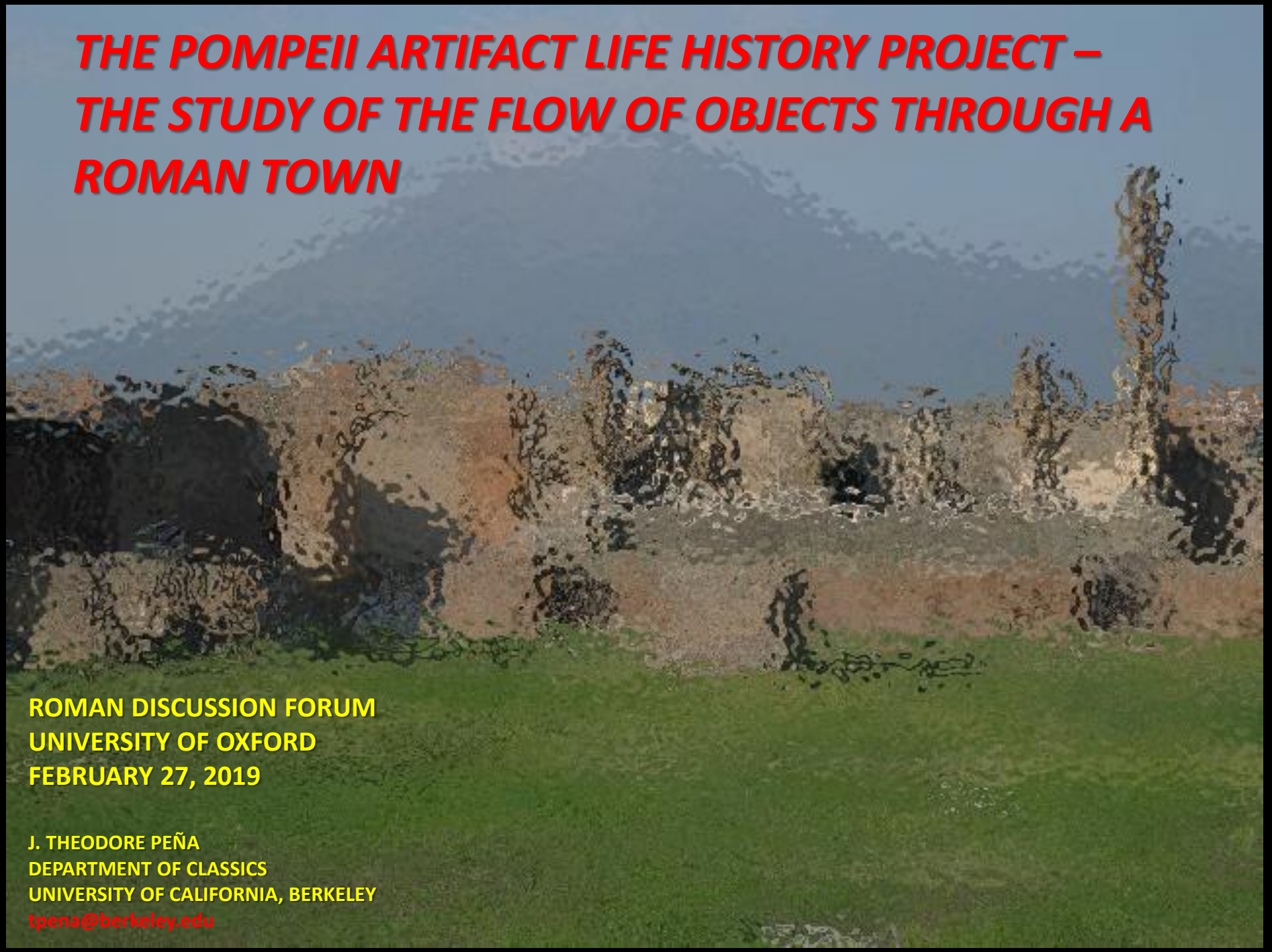
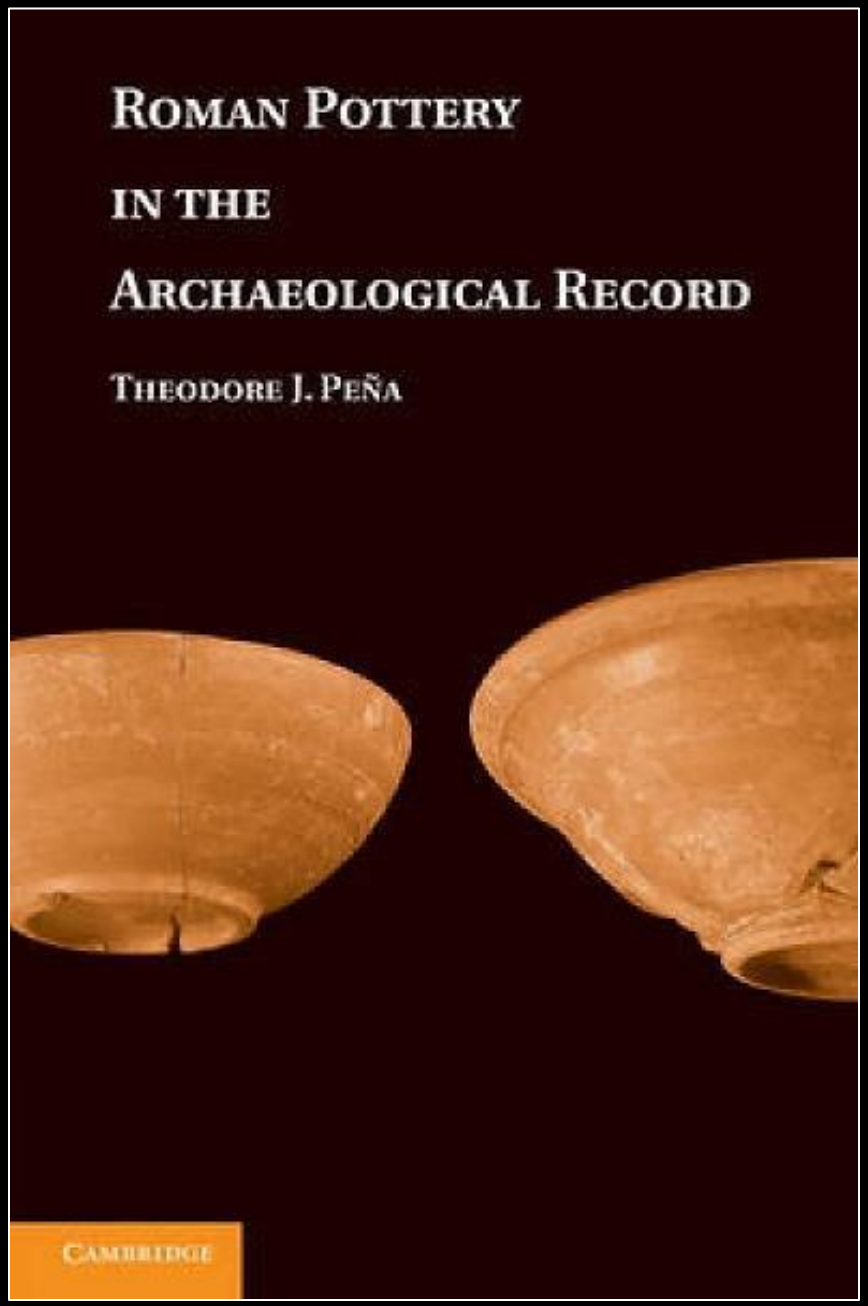
THE POMPEII ARTIFACT LIFE HISTORY PROJECT – THE STUDY OF THE FLOW OF OBJECTS THROUGH A ROMAN TOWN



ROMAN DISCUSSION FORUM
UNIVERSITY OF OXFORD
FEBRUARY 27, 2019

J. THEODORE PEÑA
DEPARTMENT OF CLASSICS
UNIVERSITY OF CALIFORNIA, BERKELEY
tpena@berkeley.edu

BACKGROUND

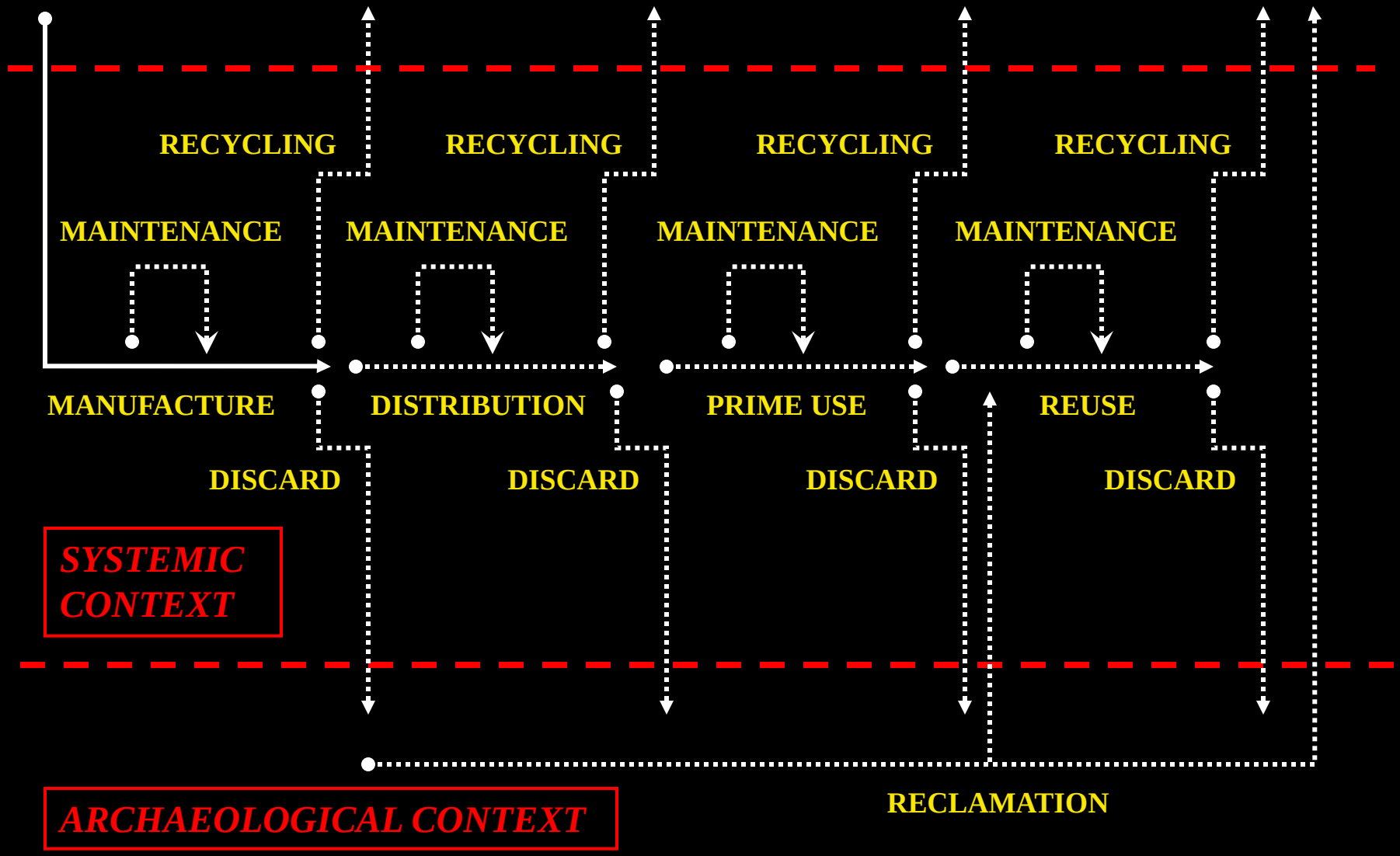


2007

ARTIFACT LIFE HISTORY:

MANUFACTURE
ACQUISITION
USE
CURATION
REUSE
RECYCLING
DISCARD

SCHEMATIC DIAGRAM OF LIFE HISTORY OF ROMAN POTTERY



ACRONYM: PALHIP

POMPEII

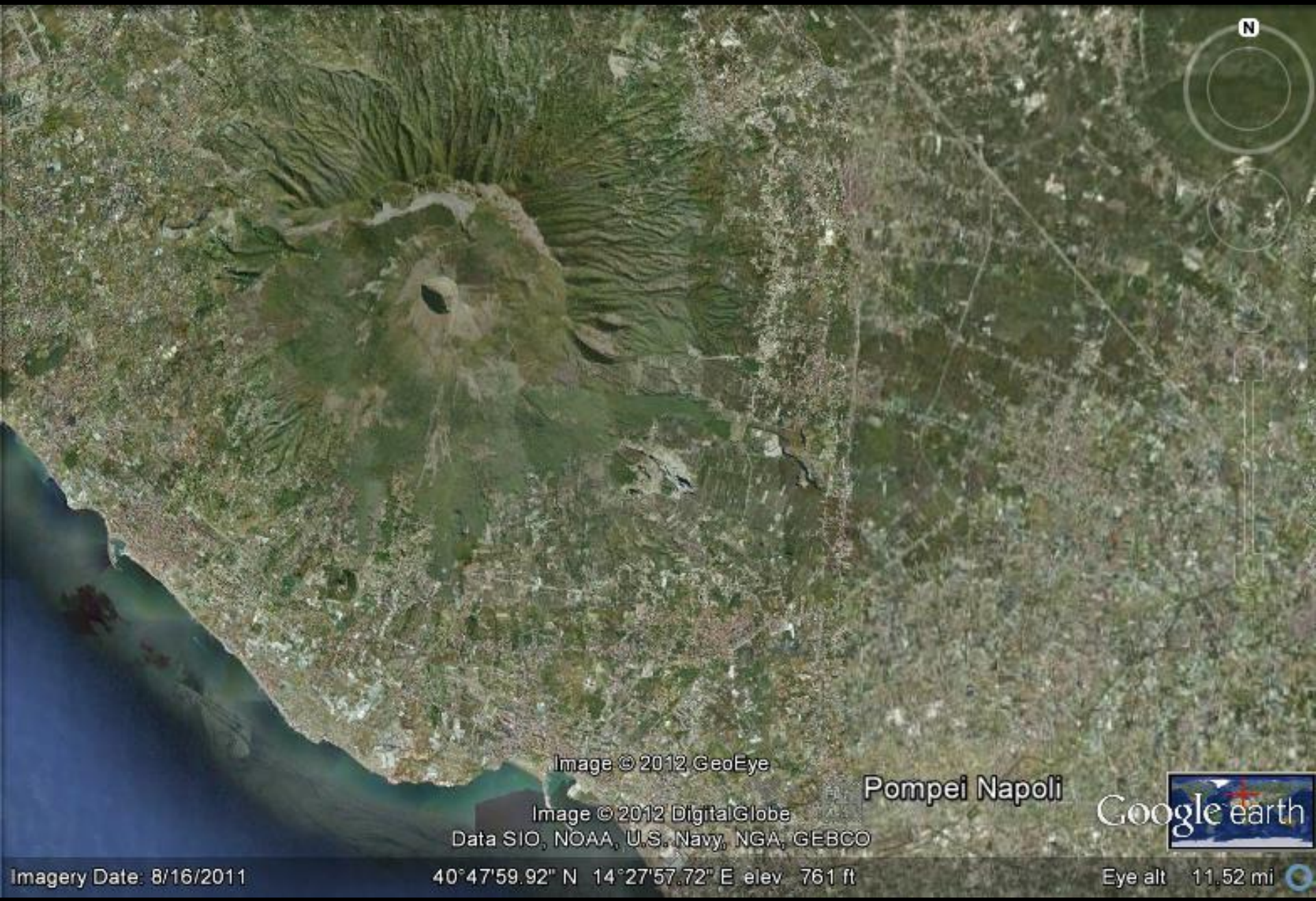
ARTIFACT

LIFE

HISTORY

PROJECT


€ 30.00
€ 15.00
€ 14.00
€ 20.00
€ 15.00
€ 18.00
€ 14.00
€ 12.00


N
Image © 2012 GeoEye
Pompei Napoli
Image © 2012 DigitalGlobe
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Google earth
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 SELECTED ITEMS/ASSEMBLAGES OF PORTABLE MATERIAL CULTURE RECOVERED IN EARLIER EXCAVATIONS


iquarium
Google e
ery Date: 9/12/2007
2002
40°45'05.91" N 14°29'20.91" E elev 104 ft
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

- INVOLVED SEVEN DISTINCT “SUB-PROJECTS”

- PHASE 2: FIVE-YEAR PROGRAM (BEGUN 2018) FOCUSING ON ASSEMBLAGES FROM EIGHT MODEST RESIDENCES IN POMPEII INSULA I.11

2012

2013

2014

2015

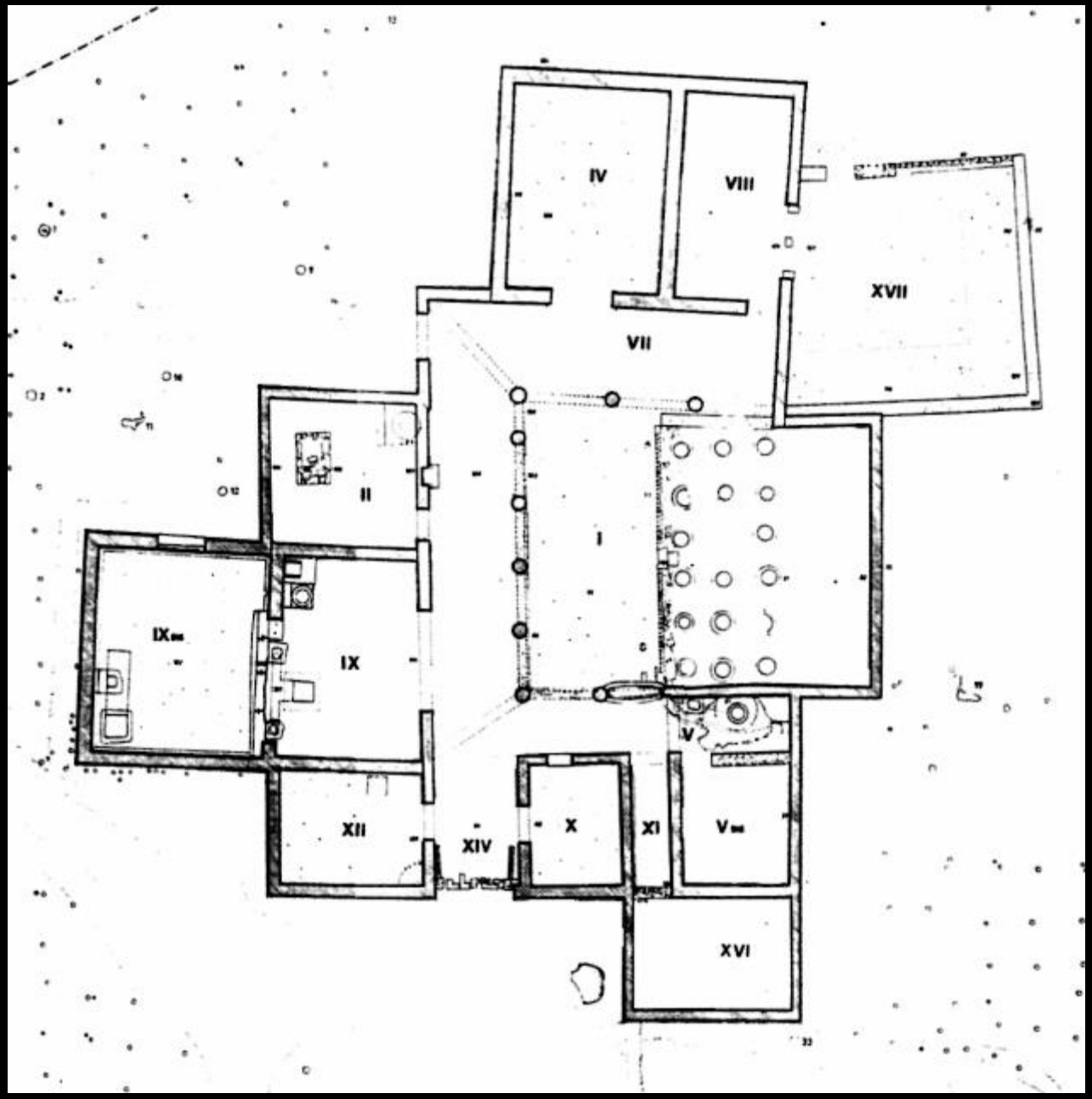
2016

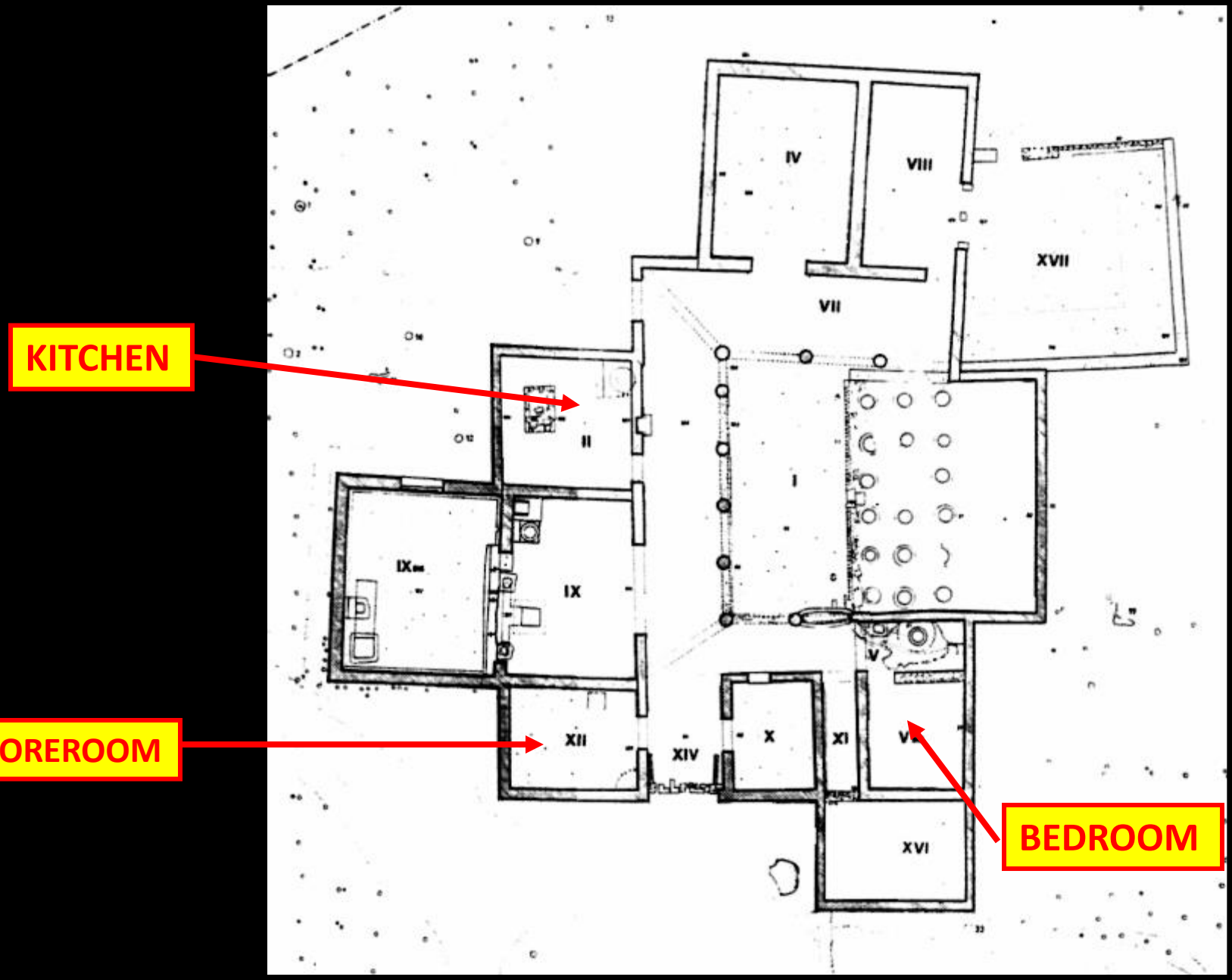
SUB-PROJECT 1:
ARTIFACTS FROM THE VILLA REGINA A BOSCOREALE (2012, 2013)

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

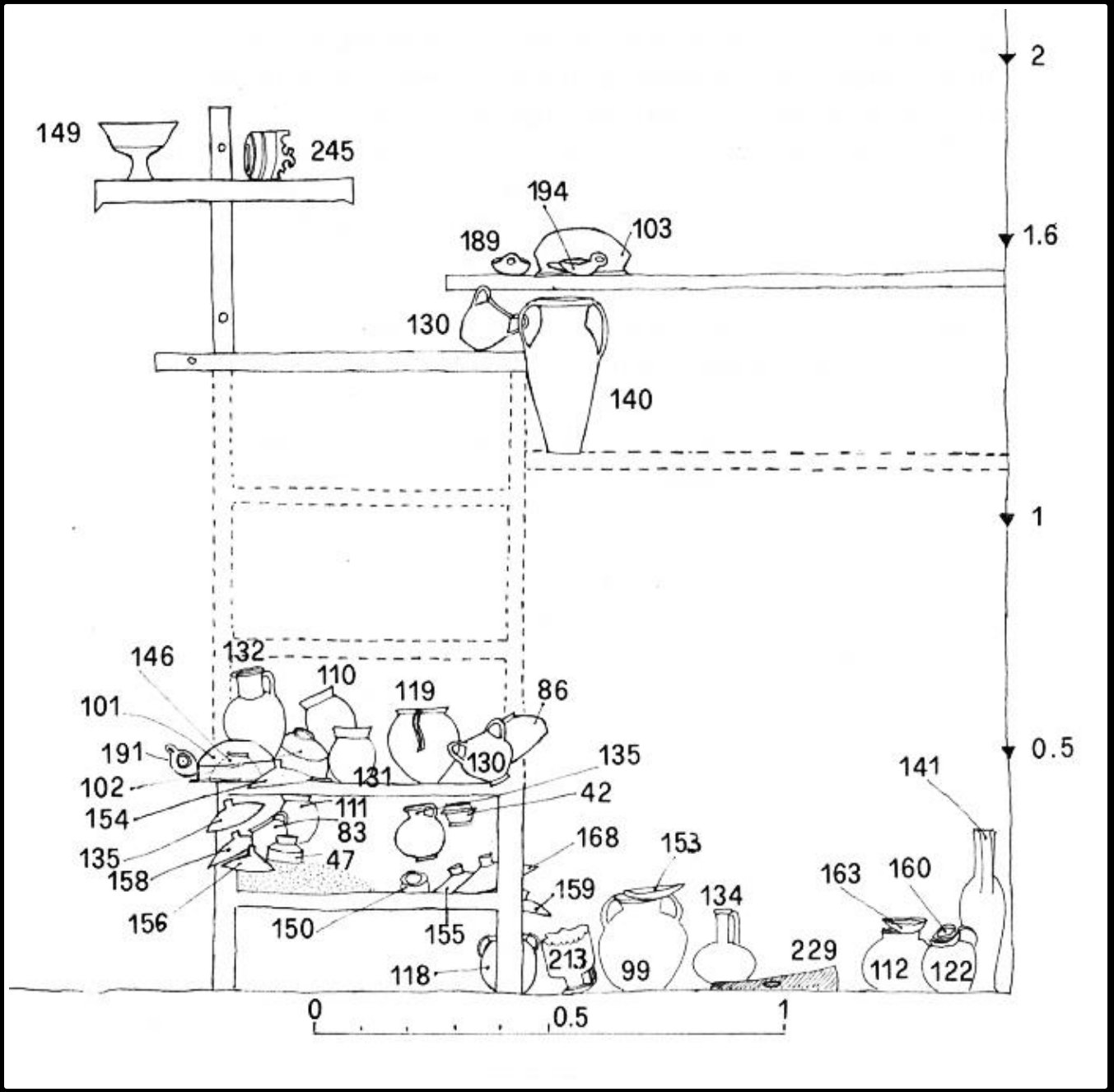
VILLA REGINA

- 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.


IV
VIII
XVII
VII
II
I
IXa
IX
V
XII
XIV
X
XI
Va
XVI

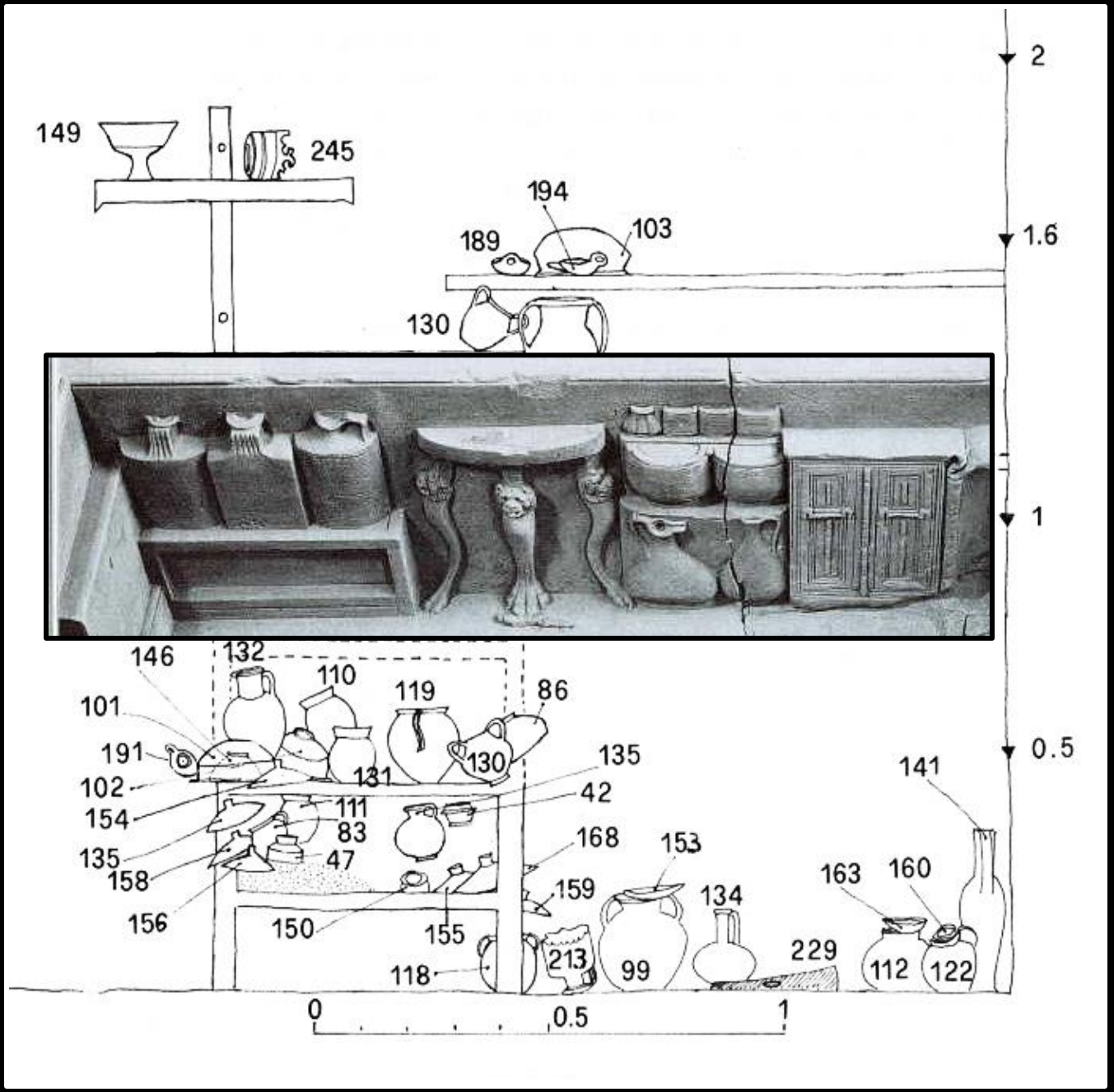

KITCHEN
STOREROOM
BEDROOM
IV
VIII
XVII
VII
II
I
IX
XII
XIV
X
XI
V
XVI

ROOM 12 STORE-ROOM



ROOM 12 STORE-ROOM

SIMPELVELD SARCOPHAGUS




103
CM

SUB-PROJECT 2:
FINDS FROM THE
INSULA DEI CASTI AMANTI
(2013)

LOCATION OF INSULA DEI CASTI AMANTI (REGIO IX INSULA 12)

INSULA DEI CASTI AMANTI

- EXCAVATION BY SOPRINTENDENZA, 1987-2009 UNDER DIRECTION OF ANTONIO VARONE
- UNCOVERS SOUTHERN PORTION OF *INSULA* IX.12 (INCLUDING *DOMUS DEI CASTI AMANTI* AND *CASA DEI PITTORI AL LAVORO*) AND UNNAMED SIDE STREETS TO WEST AND EAST

C

D

HIGH-END TABLEWARES

BLACK GLOSS WARE

ITALIAN SIGILLATA

SOUTH GALLIC SIGILLATA

NON-CERAMIC ARTIFACTS

COPPER ALLOY OBJECTS

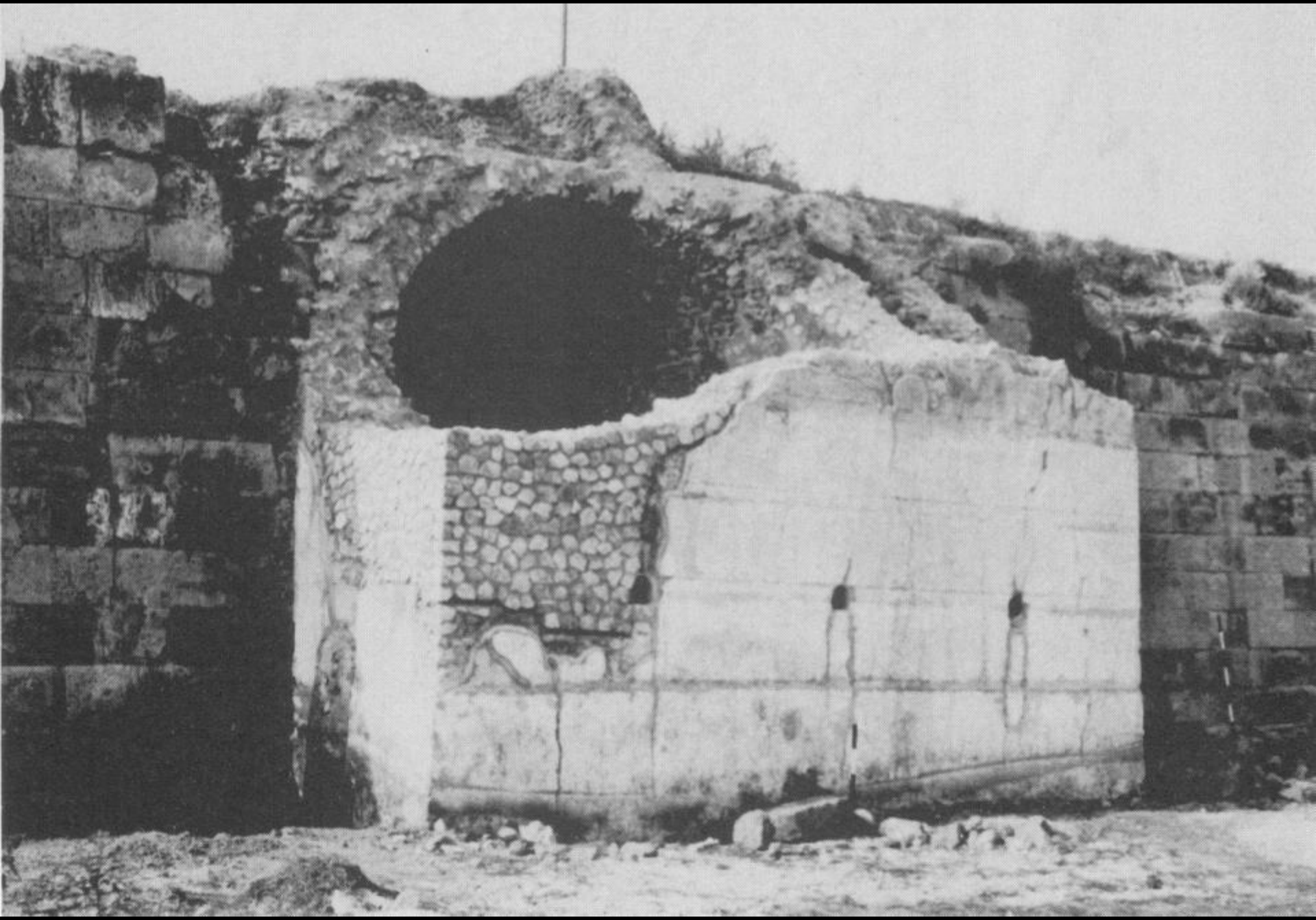
VESSEL GLASS

IRON OBJECTS

WORKED BONE OBJECTS

SUB-PROJECT 3:
TOWER 8 -
PORTA NOLA MIDDENS
(2014, 2015)

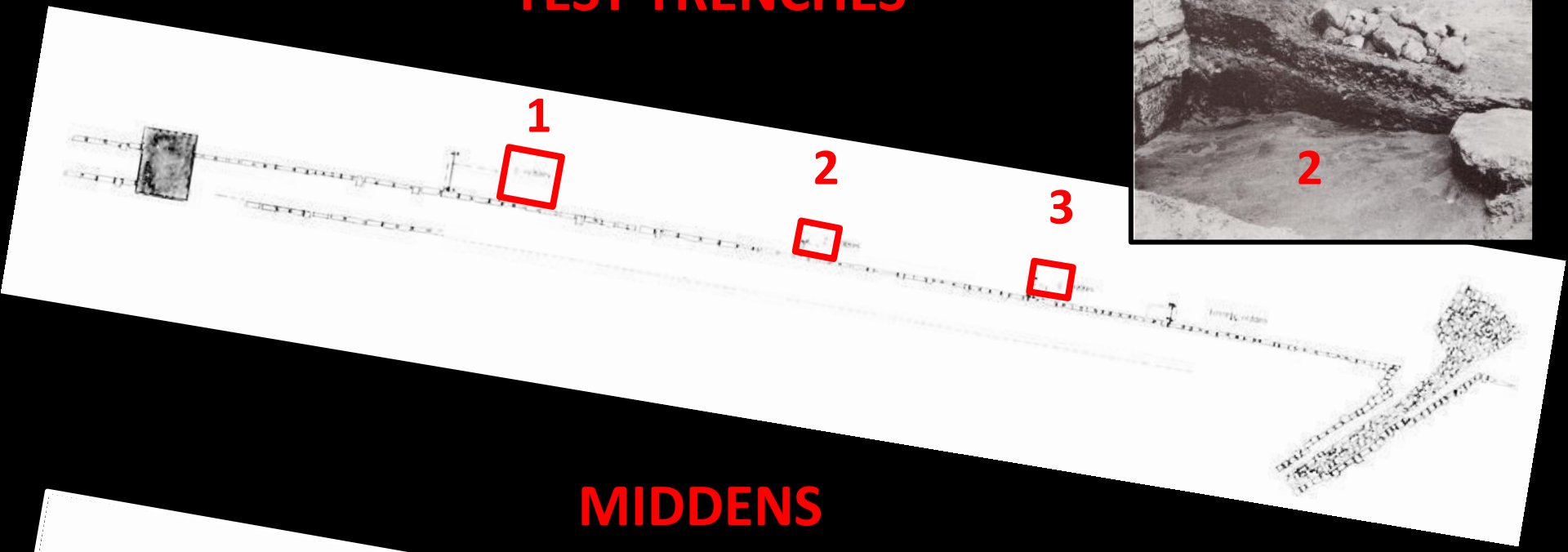
LOCATION OF TOWER 8/PORTA NOLA MIDDENS



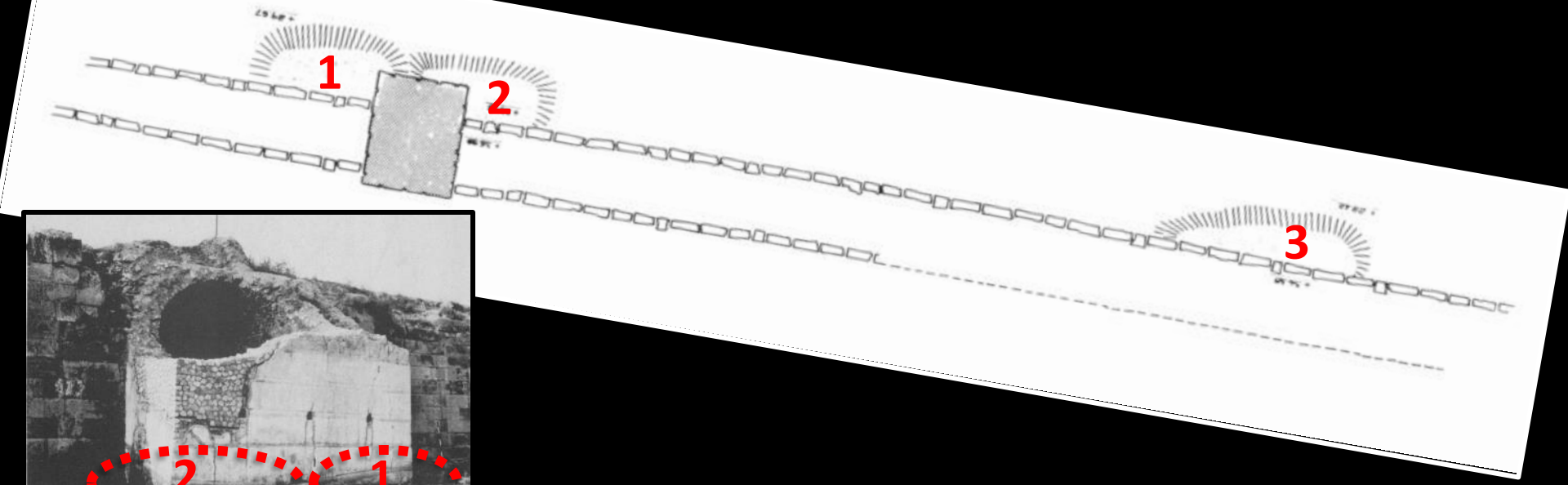
TOWER 8 - PORTA NOLA

- EXCAVATION BY UNIVERSITÀ STATALE DI MILANO, 9-11/1978 UNDER DIRECTION OF CRISTINA CHIARAMONTE TRERÉ
- RECOVERS MATERIALS FROM THREE TRASH MIDDENS DUMPED AGAINST OUTER FACE OF CITY WALL AND THREE TEST TRENCHES EXCAVATED ALONG OUTER FACE OF CITY WALL
- POTTERY AND VESSEL GLASS PUBLISHED IN MONOGRAPH CHAPTER BY L. ROMANAZZI AND A.M. VOLONTÈ IN 1986

TEST TRENCHES



MIDDENS




PORTA
NOLA


PN 8


CM


PN 249

SUB-PROJECT 4:
INSULA I.22 DOLIA
(2014, 2015)

LOCATION OF *REGIO* I, *INSULA* 22

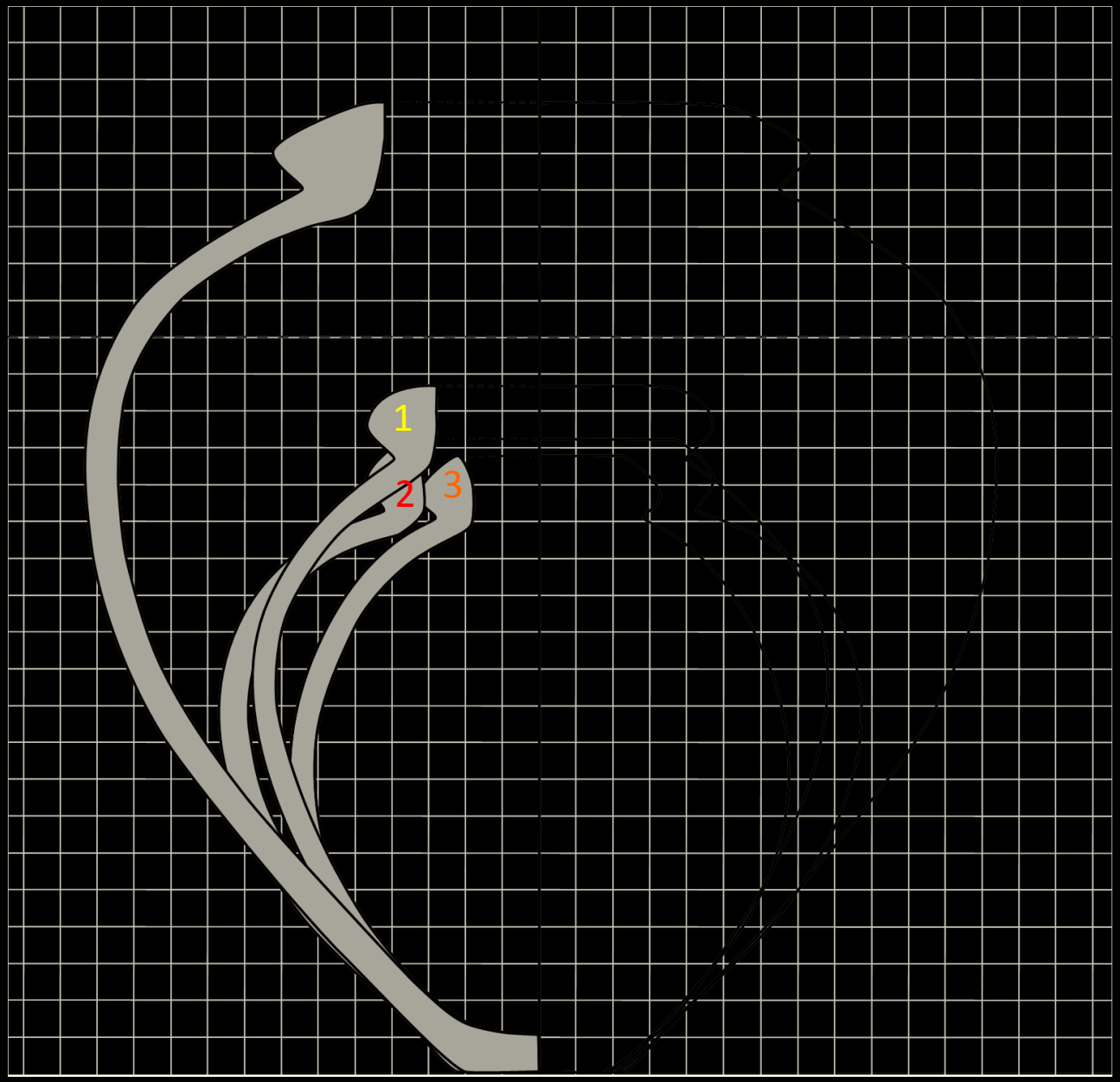
INSULA I.22

- EXCAVATION BY SOPRINTENDENZA 1959-1980S
- UNCOVERS STRUCTURE (RESIDENCE ?) WITH ANNEXED ORCHARD (NOT VINEYARD!)
- SET OF 9 *DOLIA* BEING STORED BETWEEN STRUCTURE AND ORCHARD

3 SMALL *DOLIA*

6 LARGE *DOLIA*

Tour Guide 2002 Imagery Date: 8/10/2014 40°44'58.06" N 14°29'32.49" E elev 52 ft eye alt 403 ft



PROFILES & CAPACITIES

SMALL *DOLIUM* 1: 192 LITERS

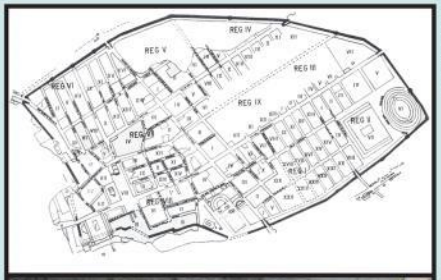
SMALL *DOLIUM* 2: 229 LITERS

SMALL *DOLIUM* 3: 133 LITERS

THE DOLIA OF REGIO I, INSULA 22

Evidence for the production and repair of dolia

Caroline Cheung, University of California, Berkeley Gina Tibbott, Temple University



Dolia form an interesting and unusual component of Roman (semi-)portable material culture that appears throughout the Mediterranean world. Considered a class of pottery, yet often produced alongside brick and tile products in workshops that supplied Roman building industries, they functioned primarily in agricultural contexts, such as farms and warehouses and generally stored foodstuffs such as wine, olive oil, grain, and fish sauce. However, despite their widespread distribution and importance, no systematic study of dolium production, use, or maintenance has been conducted due to their find spots and preservation. Dolia were generally set into the ground as dolia defossa with just their shoulders and rim exposed or set into ships that specifically transported wine. This project, in connection with the Pompeii Artifact Life History Project (directed by Prof. J. Theodore Peña), studied the nine, mostly intact dolia and dolium fragments from Regio I, Insula 22, a property that was recently excavated in various stages between the 1950s and 1980s. Although none of the dolia have been entirely excavated, and most are still embedded in lapilli, their placement and position allowed detailed autopsy and measurement of dimensions that are otherwise difficult or impossible to note, such as wall thickness and base diameter. Overall, these dolia provided an opportunity to study evidence of manufacture, use alteration, damage, and modifications, such as repairs.

This preliminary study has shown that the dolia of Regio I, Insula 22 were coil-built on a slow turning wheel. It also demonstrates that there were different techniques and materials utilized in repairing dolia; these repair techniques probably corresponded with the stage during which a dolium was repaired (pre- or post-cocturum), the type of damage people attempted to rectify, and/or the skill and expertise of the person(s) executing the repair. Because dolia were so susceptible to cracking, yet were costly investments, dolium producers were prepared to repair these vessels as part of the production process, and seem to have drawn some of the techniques from the construction industry.

FURTHER QUESTIONS

There are still a number of new directions this project could take. In summer 2016, we utilized a 3D iPad scanner to build 3D models of dolia and to estimate their capacities, and our goal is to continue this work in coming field seasons. We are also hoping to bring in a hand-held X-Ray Fluorescence spectrometer to identify the materials used in the fourth type of dolium repair.

METHODOLOGY: To study these dolia, detailed autopsy, documentation, and photography were conducted; this involved measuring dimensions, whenever possible, for height, diameter, rim diameter, base diameter, and wall thickness of dolia and dolium fragments. Evidence for the manufacture, modification, and use alteration, such as damage in the form of abrasion, cutting, chipping, denting, and breakage, was also carefully recorded. The ceramic fabric for each dolium and dolium fragment was also captured by a Dino-Lite AD413T digital microscope to study the standardization of these vessels. This documentation afforded accurate profile drawings and estimates of vessel capacity.

PRODUCTION EVIDENCE

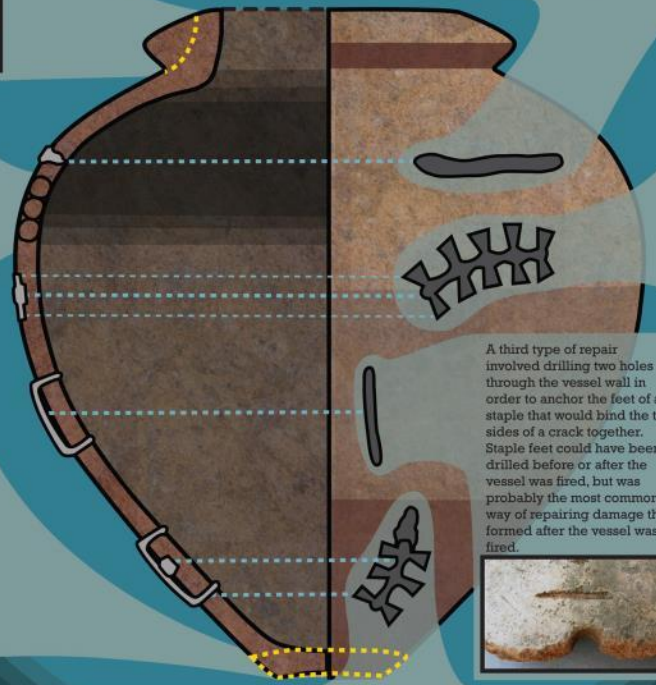
Signs of wear and breaks also indicate that the potter added a smaller coil to form the rim's core, onto which the potter molded the upper lip and surface of the rim. One dolium exhibited cracking and surface exfoliation that suggest the rim surface was also molded onto the rim coil's inner face, perhaps to ensure a good fit.

Body fragments of dolia show coil edges and scoring, suggesting that potters sliced coils, perhaps from sheets of clay, and scored them to enhance the join.

The potter started with a disc of clay to form the base on a wheel and gradually added coils of clay, smoothing the seams between the coils as the dolium was built up.

REPAIR EVIDENCE

One repair simply involved filling the dolium's single crack with lead. The crack was small and could have formed before or after the dolium was fired, but the filling occurred after the vessel was fired.



A second type of repair involved both crack filling and neatly executed tenons, which were cut into a leather-hard, but pre-fired, clay body, and then filled with a lead compound after firing. The repairs were remarkably shallow and some seem to have anticipated cracks since they were positioned on areas of dolia where cracks were expected but not present.

A third type of repair involved drilling two holes through the vessel wall in order to anchor the feet of a staple that would bind the two sides of a crack together. Staple feet could have been drilled before or after the vessel was fired, but was probably the most common way of repairing damage that formed after the vessel was fired.

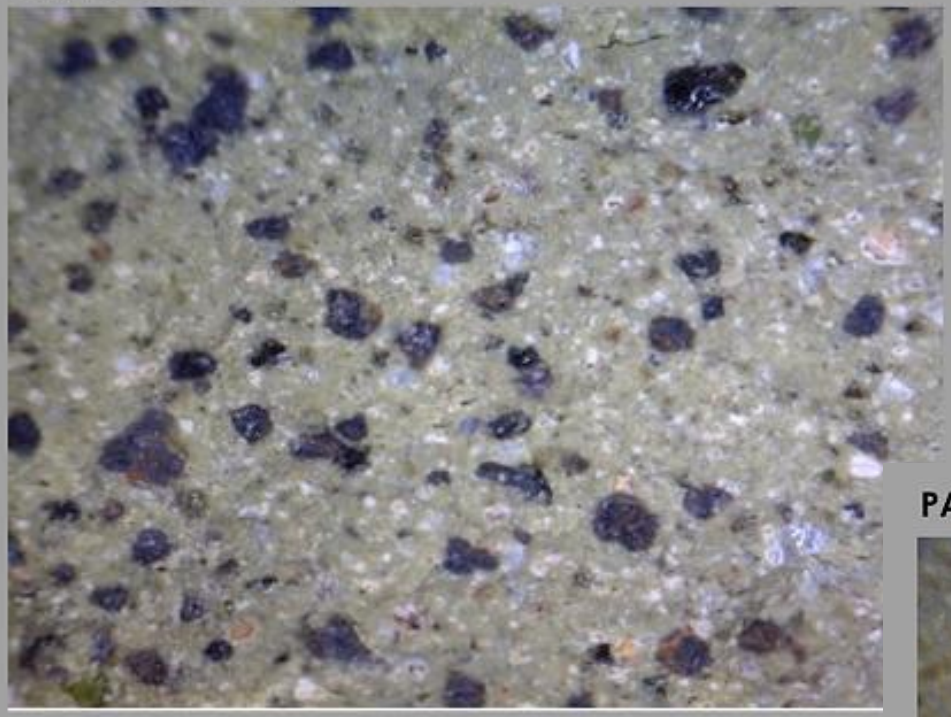
A fourth type of repair also featured dovetails and tenons, probably made during production, but its ferruginous and asymmetrical appearance suggests that there was also a follow-up repair executed after the vessel was fired during its use life. After regularizing the dolium's crack during the production process, the dolium was fired in the kiln and its crack then filled with a lead based compound. Since the horizontal crack is on the middle of the exterior wall, the stress probably exceeded the strength of the repair and the damage worsened requiring a follow-up repair. This consisted of drilling holes for staples, possibly regularizing the original dovetails and tenons that were damaged. The new staples, dovetails, and tenons were then filled with the new lead substance, onto which an iron-based material was applied. The use of dovetails and tenons to repair dolia and the application of iron are not seen on any other types of pottery. Instead, dolium repairs are more closely related to techniques used in ashlar masonry to join architectural blocks.

ACKNOWLEDGEMENTS

The authors of this poster would like to thank the Soprintendenza Speciale per i Beni Archeologici Pompei Ercolano Stabia, Massimo Osanna, Gisela Stefani, Vincenzo Sabini, Patrizia Talone, Luana Toniolo, Domenico Busiello, Giuseppe Di Martino, University of California Berkeley Graduate Group in Ancient History and Mediterranean Archaeology, and the PALMIP team.

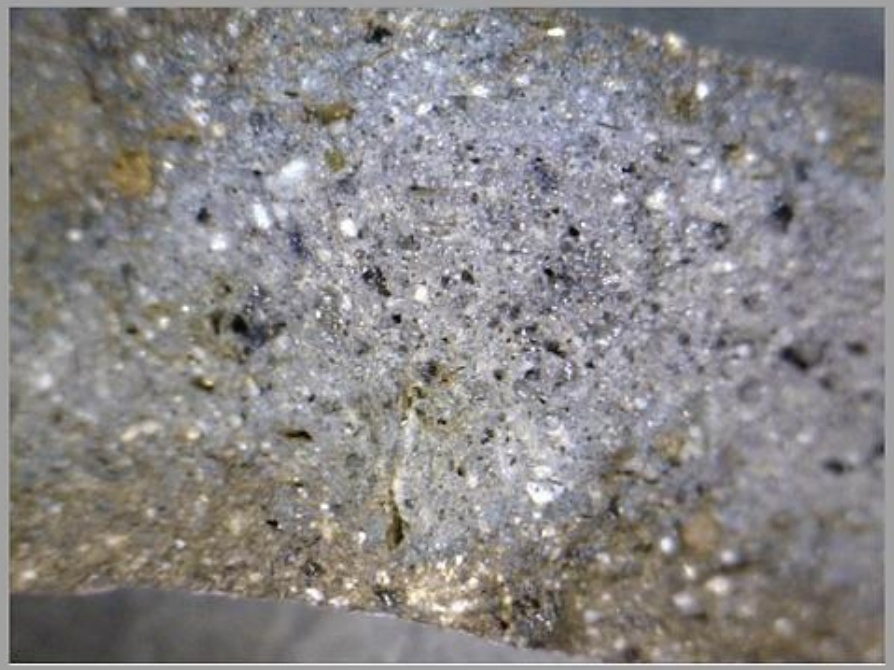
SUB-PROJECT 5:
COMPOSITIONAL ANALYSIS OF TOWER 8 - PORTA NOLA MIDDENS POTTERY
(2015-2016)

PALHIP 0203 65x



5mm

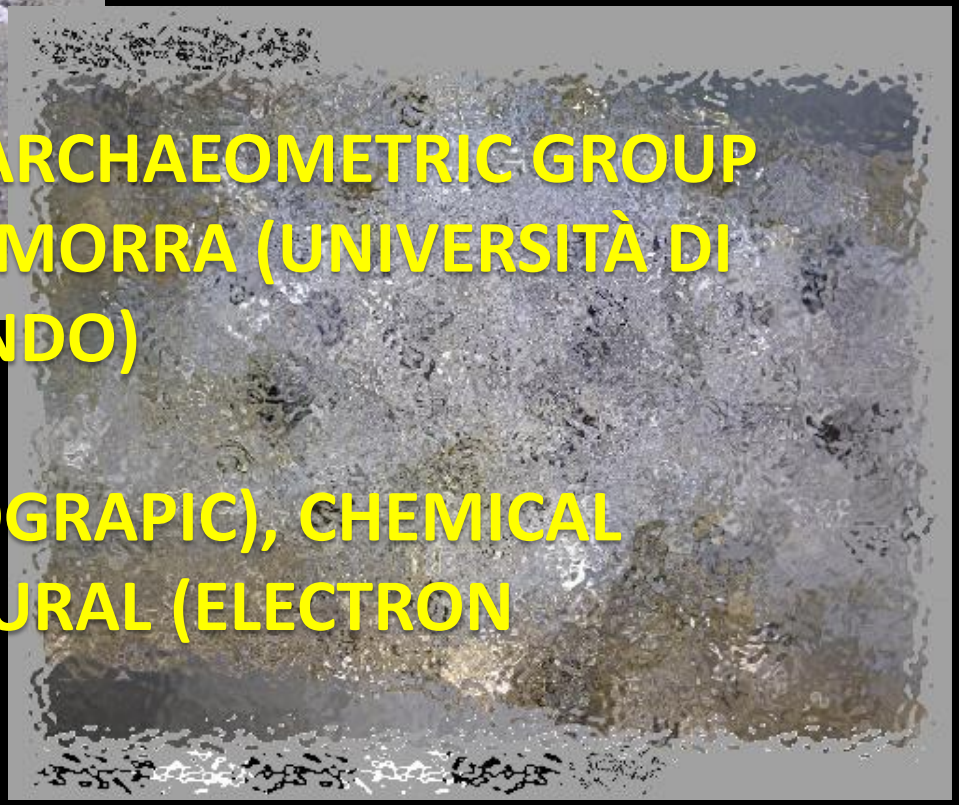
PALHIP 0624 50x

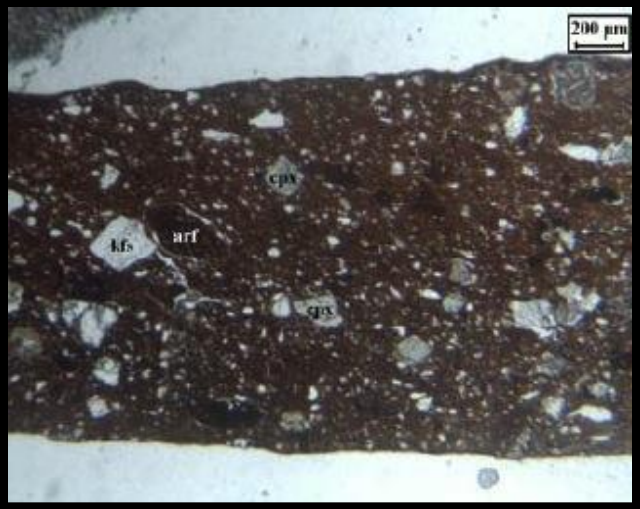


5mm

TOWER 8 – PORTA NOLA POTTERY ANALYSIS

- PROGRAM OF MINERALOGICAL AND CHEMICAL ANALYSIS OF POTTERY WITH MANUFACTURING DEFECTS
- COLLABORATION WITH ARCHAEOMETRIC GROUP DIRECTED BY VINCENZO MORRA (UNIVERSITÀ DI NAPOLI FEDERICO SECONDO)
- MINERALOGICAL (PETROGRAPIC), CHEMICAL ANALYSIS (XRF), STRUCTURAL (ELECTRON MICROSCOPY)




200 µm
cpx
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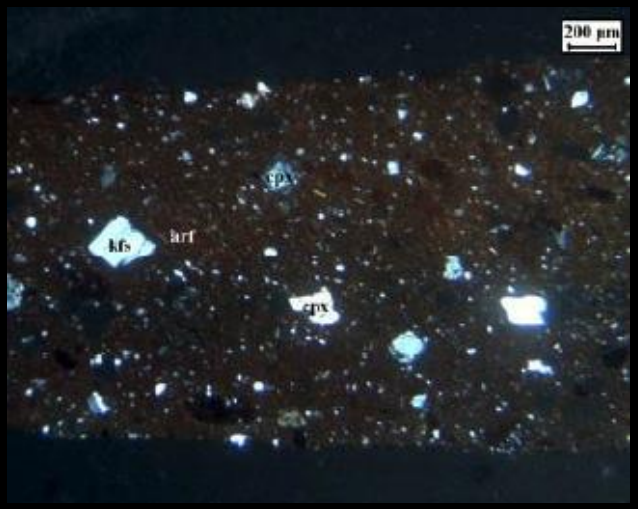
200 µm
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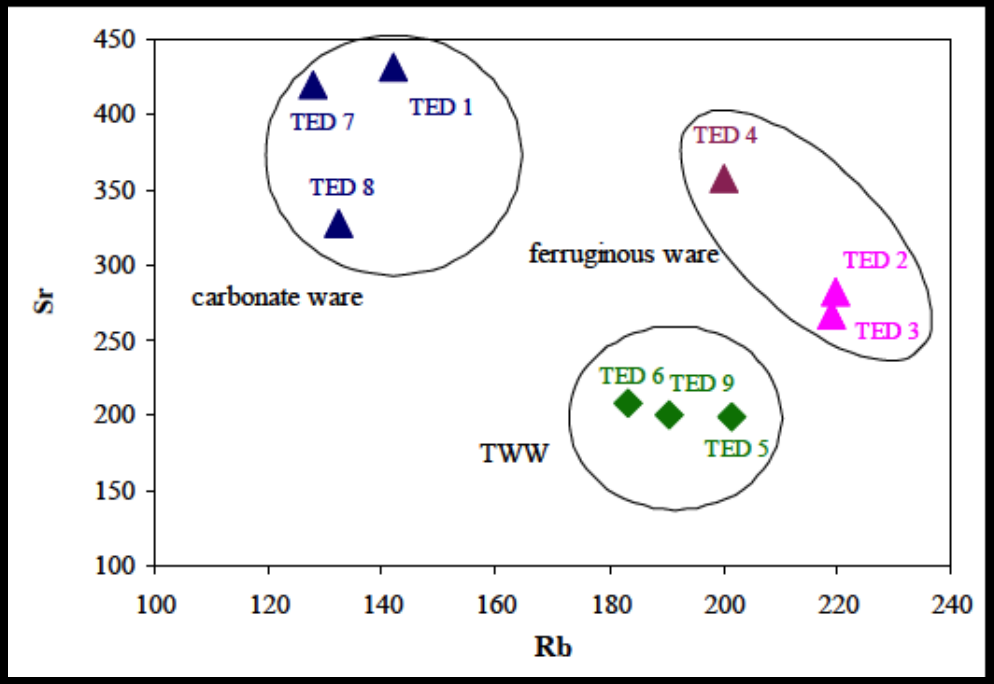
Sr
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200
220
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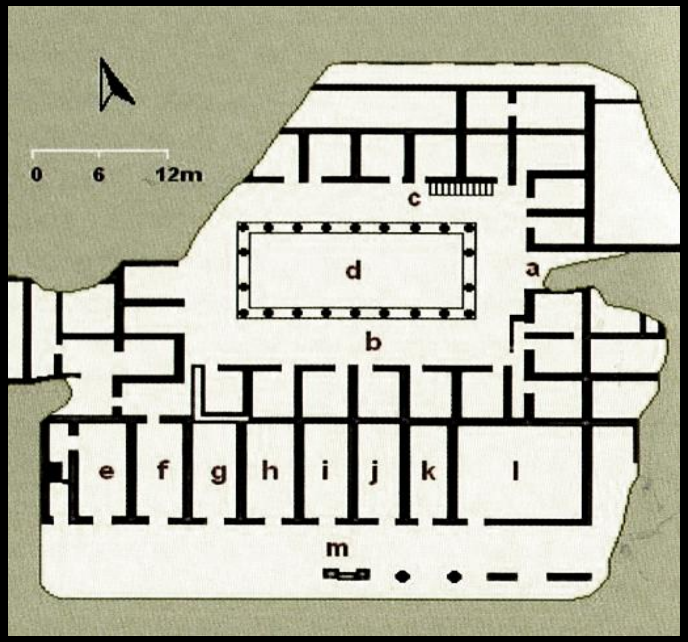
TED 7
TED 1
TED 8
carbonate ware
TED 4
ferruginous ware
TED 2
TED 3
TED 6
TED 9
TED 5
TWW

SUB-PROJECT 6:
OPLONTIS VILLA B AMPHORAS
(2016)

LOCATION OF OPLONTIS VILLA B – 2.3 KM WNW OF POMPEII

OPLONTIS VILLA B AMPHORAS

- EXCAVATION BY SOPRINTENDENZA 1974-1984
- UNCOVERS WAREHOUSE/FOOD PROCESSING FACILITY WITH SECOND FLOOR RESIDENCE (NOT A VILLA)
- TEST EXCAVATION AND STUDY BY U. OF TEXAS (JOHN CLARKE, MICHAEL THOMAS) 2012-PRESENT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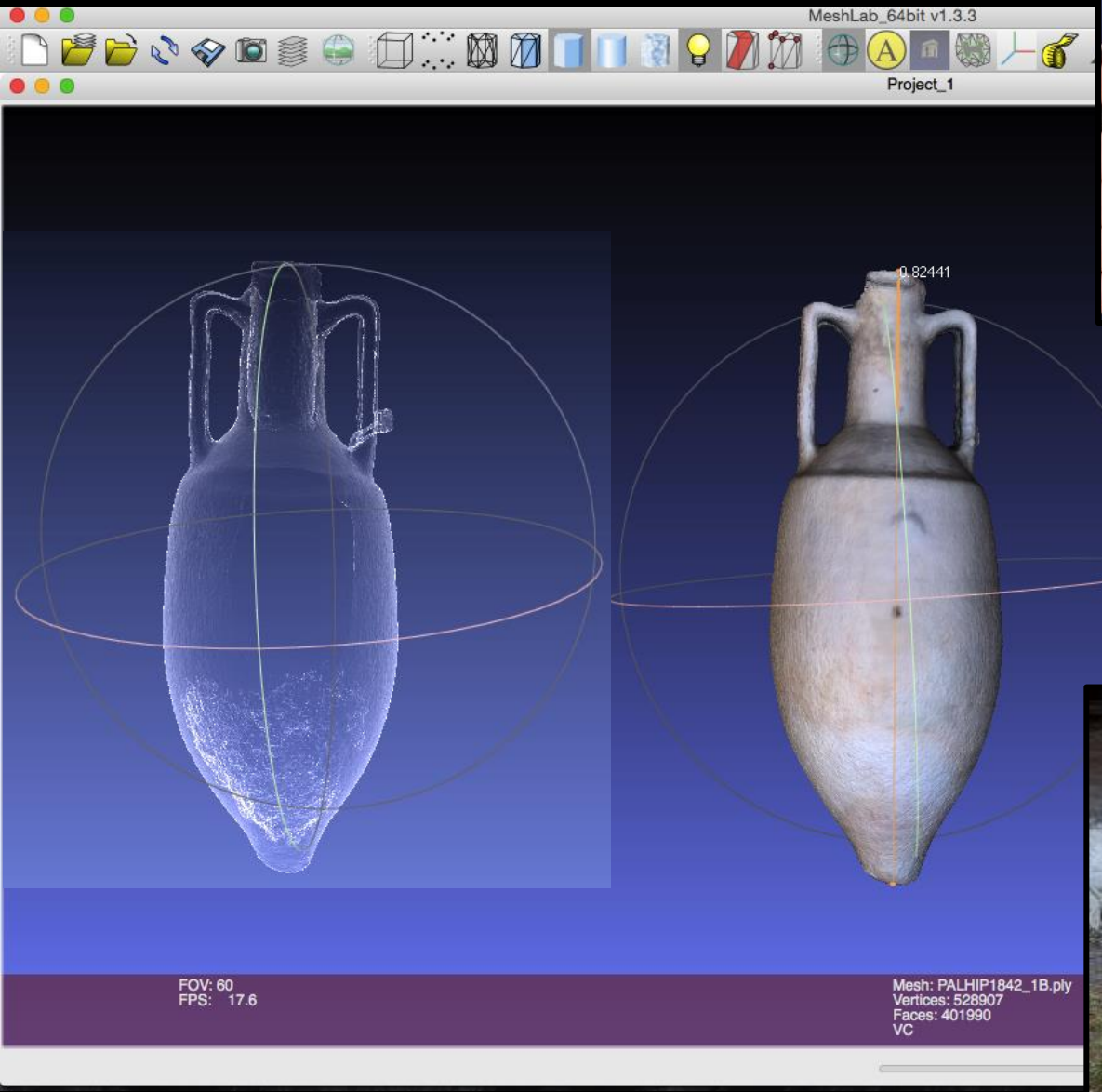
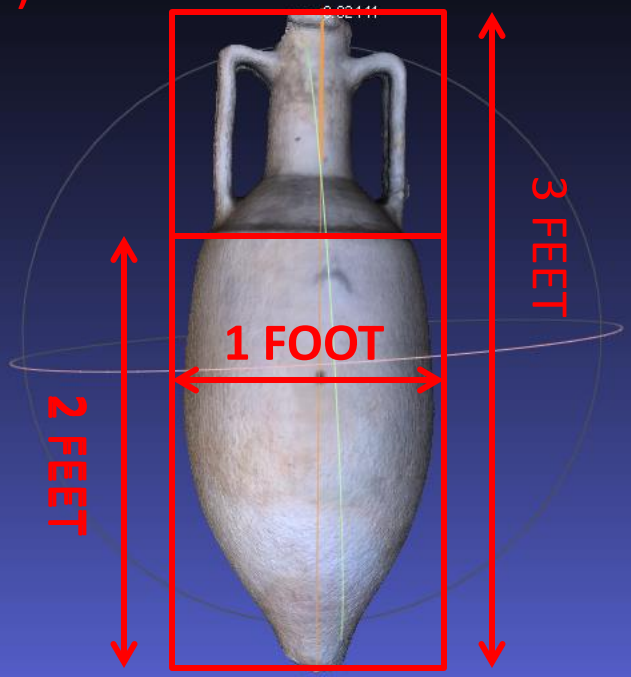

MeshLab_64bit v1.3.3
Project_1
0.82441
FOV: 60
FPS: 17.6
Mesh: PALHIP1842_1B.ply
Vertices: 528907
Faces: 401990
VC

MeshLab_64bit v1.3.3

Project_1

DRESSEL 2-4 (PANELLA/FANO TYPE 3):

CAPACITY:
= 1 QUANDRANTAL
(I.E. CUBIC FOOT)
= 1 AMPHORA
= 26.2 LITERS



VOLUME = 2.36 CUBIC FEET
EFFICIENCY = 0.42

FOV: 60
FPS: 17.6

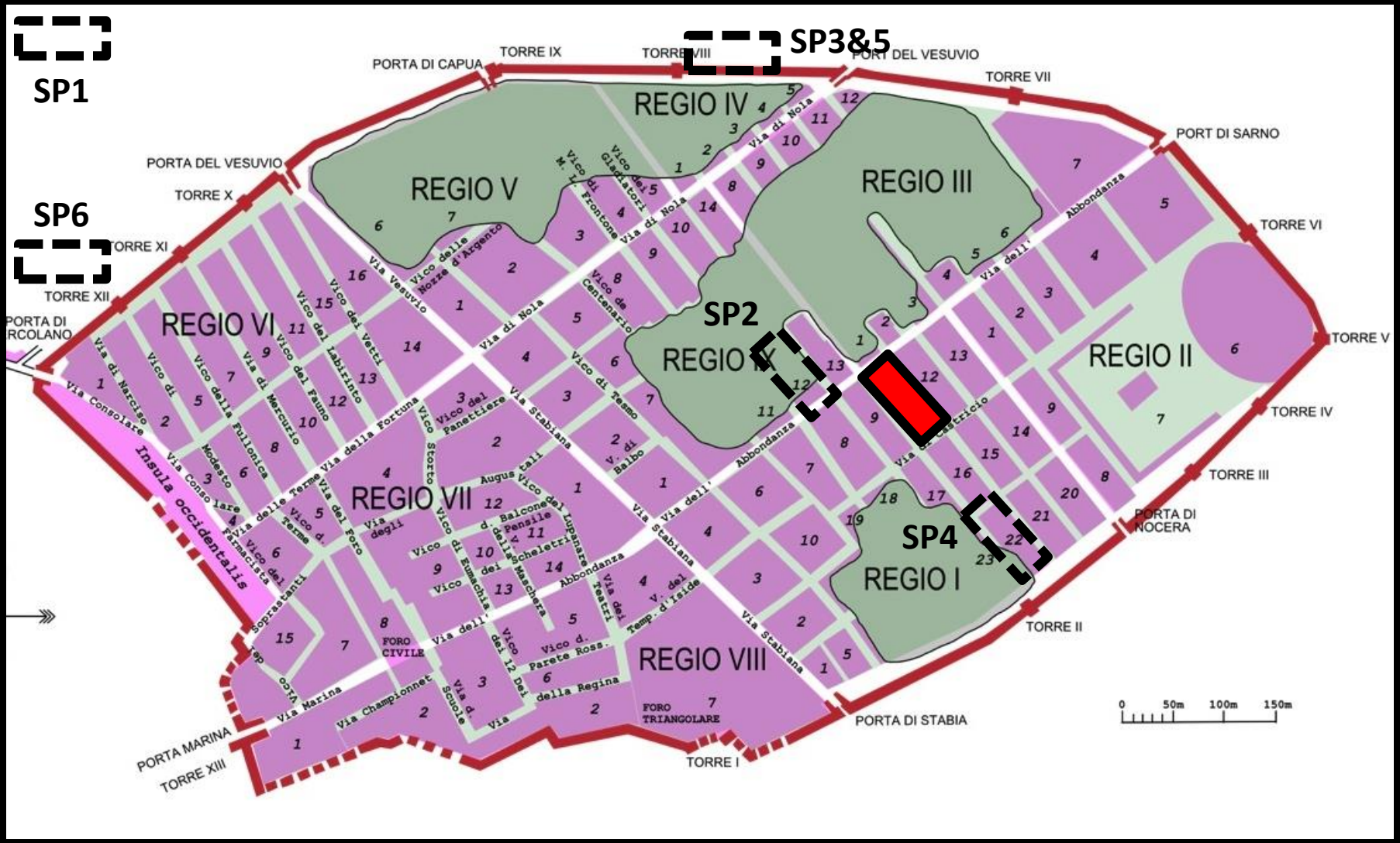
Mesh: PALHIP1842_1B.ply
Vertices: 528907
Faces: 401990
VC

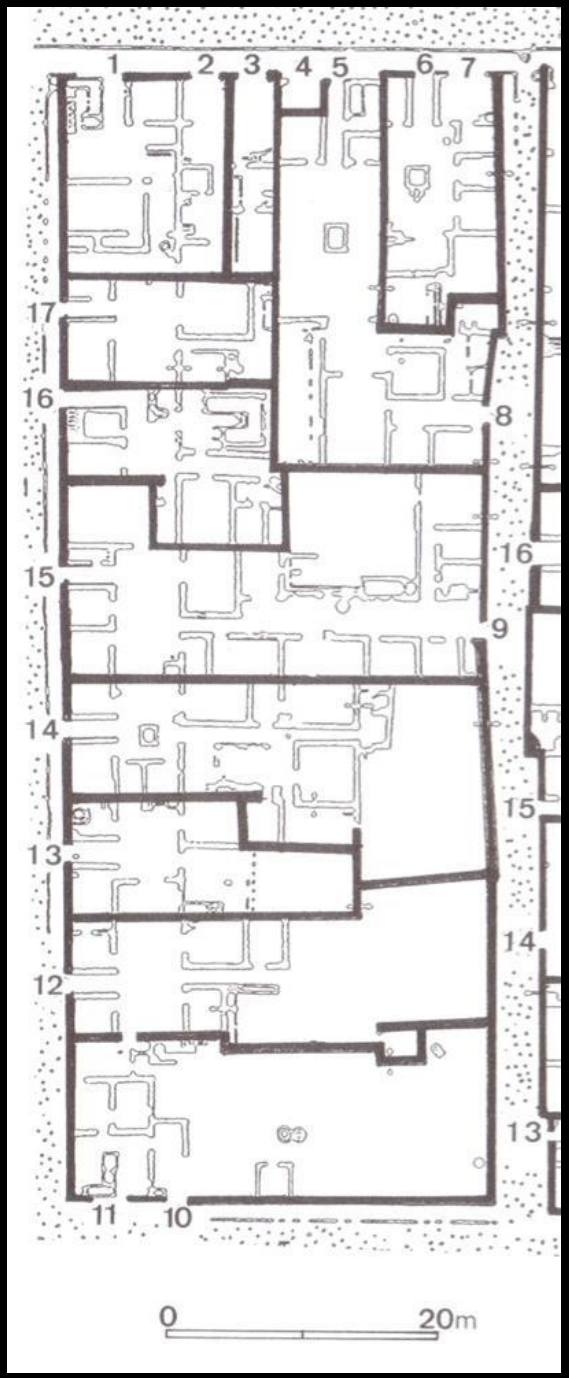

CM


CM

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

LOCATION OF *REGIO* I *INSULA* 11

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20m

INSULA I.11

EXCAVATED BY SOPRINTENDENZA

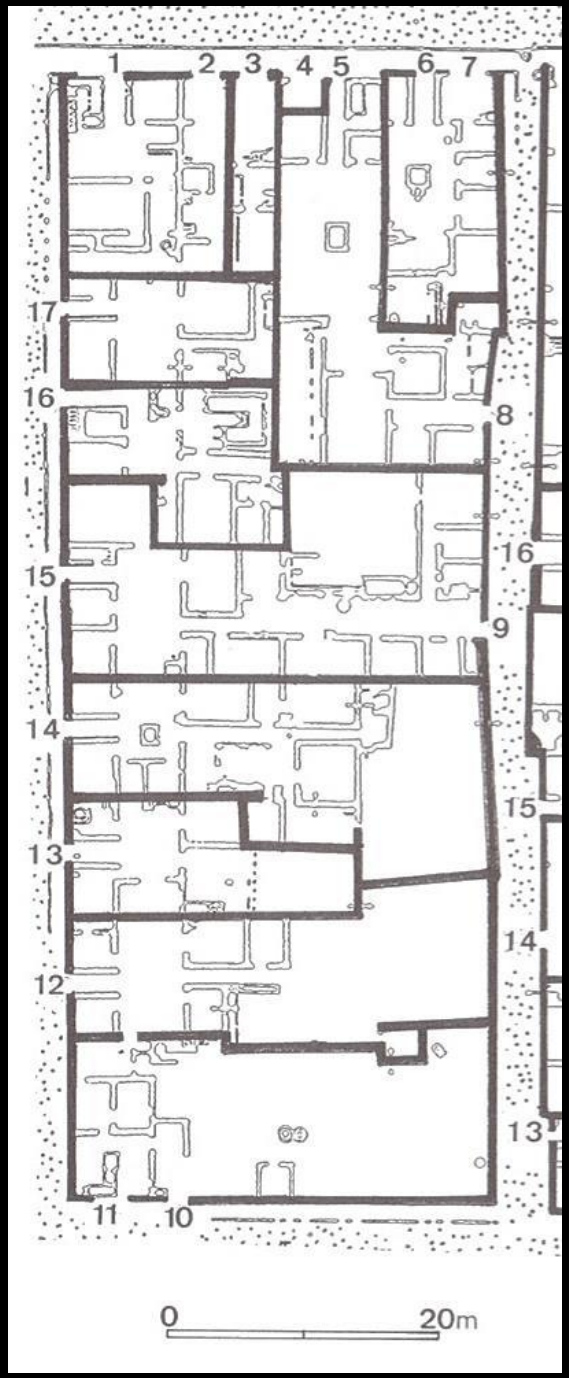
1912-1913 UNDER DIRECTION OF VITTORIO SPINAZZOLA

1952-1964 UNDER DIRECTION OF AMEDEO MAIURI

SHORT STUDIES OF PROPERTIES 1980S-2000S

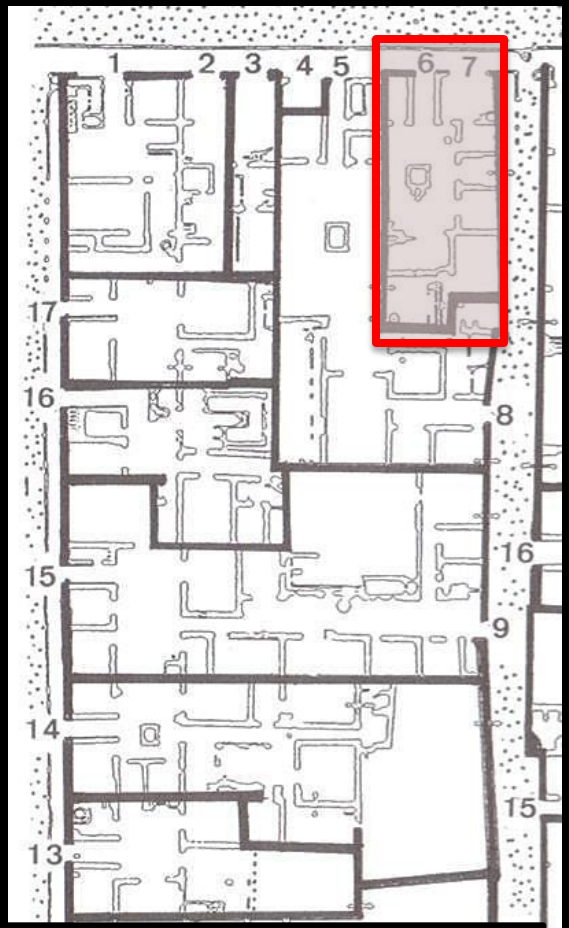
INSULA I.11: SYNPOSIS OF PROPERTIES

Address	Function(s)	Name	Ground Floor	Quartile
I.11.1.2	Caupona & shop	None	190 m²	3rd
I.11.3	Taberna & shop	None	10 m²	1st
I.11.4	Shop	None	10 m²	1st
I.11.5.8	House & shop	C. di L. Habonius Primus	325 m²	3rd
I.11.6.7	House	C. della Venere in Bikini	170 m²	2nd
I.11.10.11	Caupona & vineyard	Caupona of Euxinus and Iustus	400 m²	4th
I.11.12	House	C. di Euxinus	340 m²	3rd
I.11.13	House	None	170 m²	2nd
I.11.14	House	C. del Cherem	400 m²	4th
I.11.15.9	House	C. del Piano Superiore	460 m²	4th
I.11.16	House & hospitium	C. di Saturnius	150 m²	2nd
I.11.17	House	C. Imperiale	140 m²	2nd



INSULA I.11.6.7: C. DELLA VENERE IN BIKINI

Address	Function(s)	Name	Ground Floor	Quartile
I.11.1.2	Caupona & shop	None	190 m²	3rd
I.11.3	Taberna & shop	None	10 m²	1st
I.11.4	Shop	None	10 m²	1st
I.11.5.8	House & shop	C. di L. Habonius Primus	325 m²	3rd
I.11.6.7	House	C. della Venere in Bikini	170 m²	2nd
I.11.10.11	Caupona & vineyard	Caupona of Euxinus and Iustus	400 m²	4th
I.11.12	House	C. di Euxinus	340 m²	3rd
I.11.13	House	None	170 m²	2nd
I.11.14	House	C. del Cherem	400 m²	4th
I.11.15.9	House	C. del Piano Superiore	460 m²	4th
I.11.16	House & hospitium	C. di Saturnius	150 m²	2nd
I.11.17	House	C. Imperiale	140 m²	2nd



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

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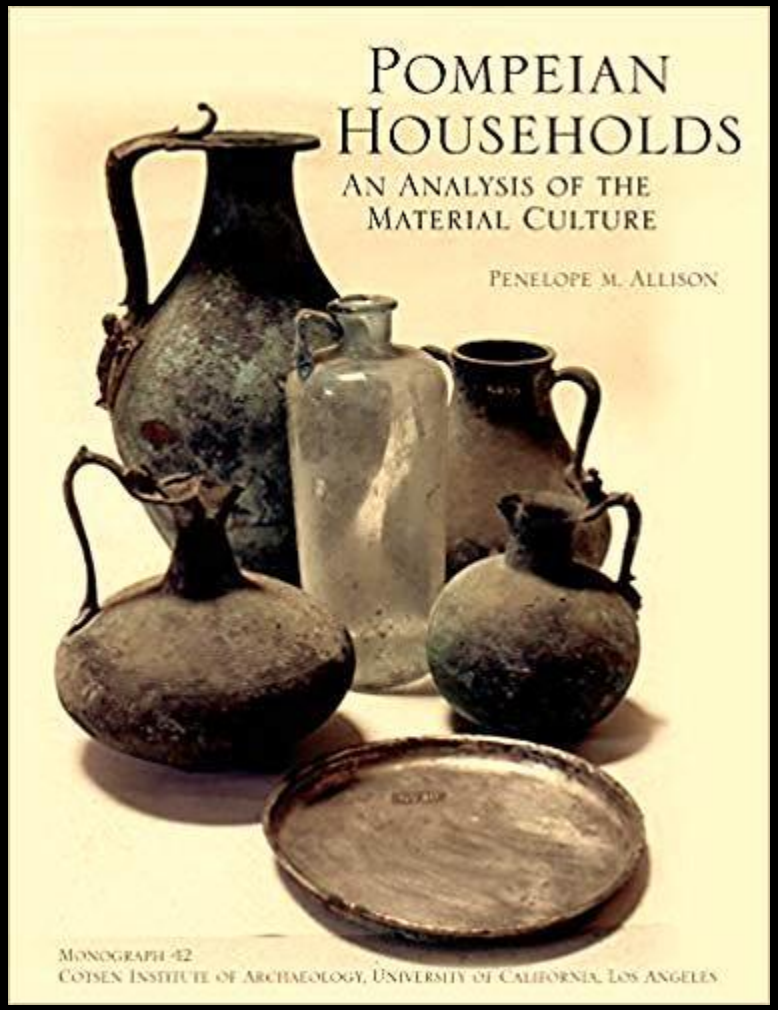

THE CASA DELLA VENERE IN BIKINI

(I 11, 6-7)

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

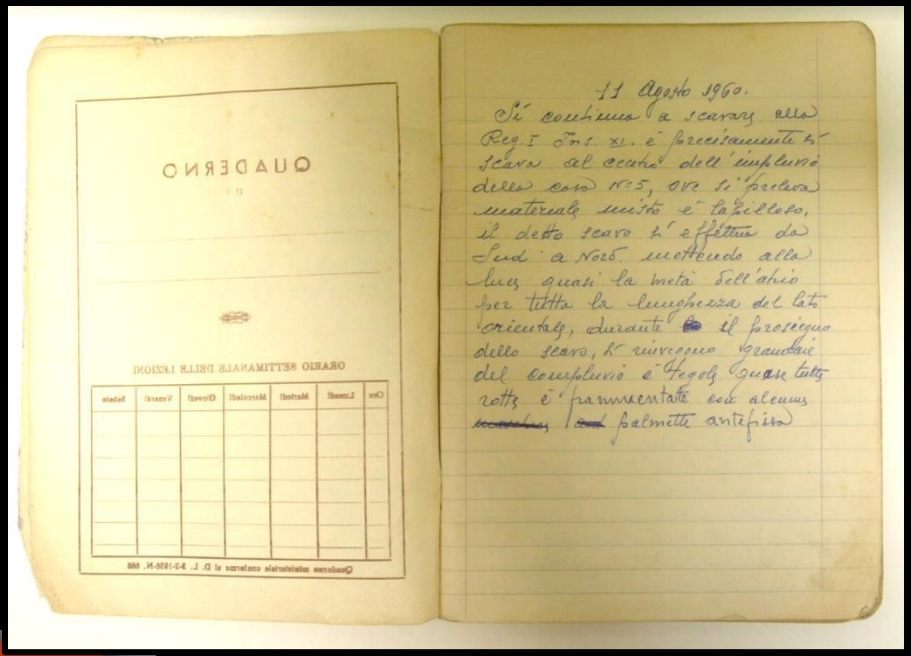
Nicholas Martin Ray

BSc. MPhil. (Bradford)

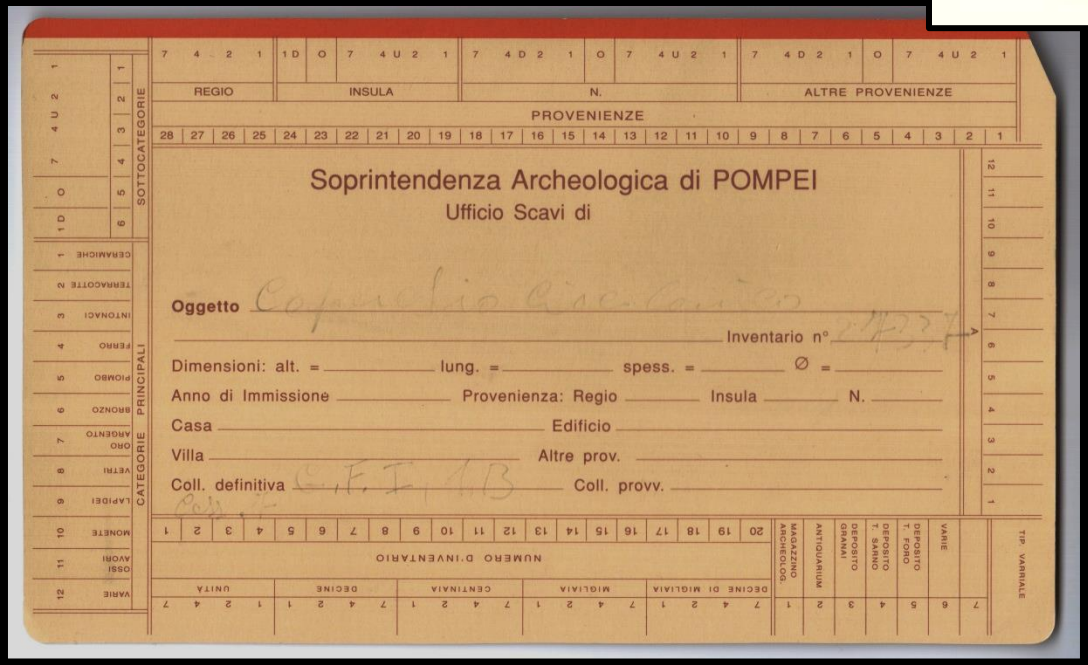
School of Archaeology and Ancient History

University of Leicester

August 2009



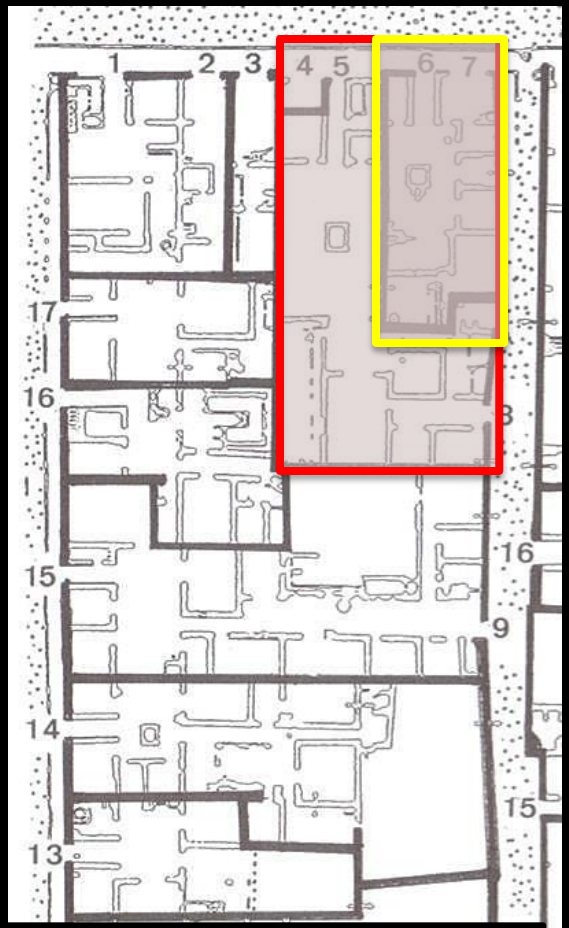
DIARIO DEGLI SCAVI



SCHEDA “BUFFETTI”

INSULA I.11.5.8: C. DI L. HABONIUS PRIMUS

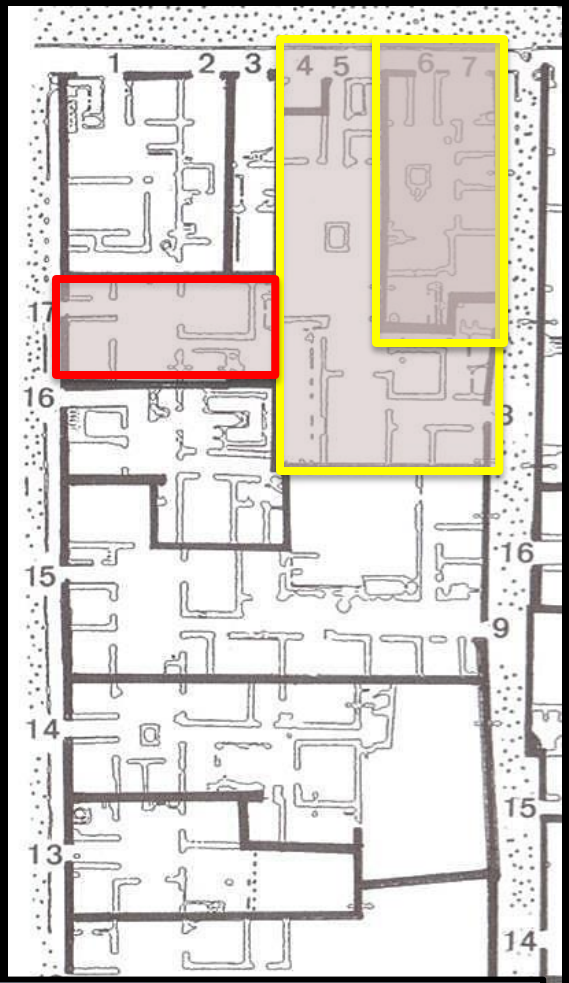
Address	Function(s)	Name	Ground Floor	Quartile
I.11.1.2	Caupona & shop	None	190 m²	3rd
I.11.3	Taberna & shop	None	10 m²	1st
I.11.4	Shop	None	10 m²	1st
I.11.5.8	House & shop	C. di L. Habonius Primus	325 m²	3rd
I.11.6.7	House	C. della Venere in Bikini	170 m²	2nd
I.11.10.11	Caupona & vineyard	Caupona of Euxinus and Iustus	400 m²	4th
I.11.12	House	C. di Euxinus	340 m²	3rd
I.11.13	House	None	170 m²	2nd
I.11.14	House	C. del Cherem	400 m²	4th
I.11.15.9	House	C. del Piano Superiore	460 m²	4th
I.11.16	House & hospitium	C. di Saturnius	150 m²	2nd
I.11.17	House	C. Imperiale	140 m²	2nd



NORTH FAÇADE INSULA I.11

INSULA I.11.17: CASA IMPERIALE

Address	Function(s)	Name	Ground Floor	Quartile
I.11.1.2	Caupona & shop	None	190 m²	3rd
I.11.3	Taberna & shop	None	10 m²	1st
I.11.4	Shop	None	10 m²	1st
I.11.5.8	House & shop	C. di L. Habonius Primus	325 m²	3rd
I.11.6.7	House	C. della Venere in Bikini	170 m²	2nd
I.11.10.11	Caupona & vineyard	Caupona of Euxinus and Iustus	400 m²	4th
I.11.12	House	C. di Euxinus	340 m²	3rd
I.11.13	House	None	170 m²	2nd
I.11.14	House	C. del Cherem	400 m²	4th
I.11.15.9	House	C. del Piano Superiore	460 m²	4th
I.11.16	House & hospitium	C. di Saturnius	150 m²	2nd
I.11.17	House	C. Imperiale	140 m²	2nd



NORTH FAÇADE INSULA I.11

DOCUMENTATION (DATABASE)

BASIC INFORMATION | GRAPHICS | MEASUREMENTS | MANUFACTURE | CONDITION | TEXTS | ANALYSES

POMPEII ARTIFACT LIFE HISTORY PROJECT (PALHIP)
UNIVERSITY OF CALIFORNIA, BERKELEY -- SAPES
OBJECT DATABASE

PALHIP NUMBER: 2091

IDENTIFICATION: Pottery - Italian Sigillata dish - sloping wall and bead rim (Conspectus 3) with maker's stamp.

Description: Exterior: Broad, flat resting surface.
Interior: Double groove immediately below rim; step at juncture wall and floor; two double grooves enclosing broad band of chattering middle floor; double groove inner floor; in planta pedis maker's stamp slightly off-center center

Date: 07/15/2018

Compiler(s): J.T Peña

Update(s): 07/16/2018 JTP continues description. Edited by JTP 07/25/2018; 02/10/2019.
TO COMPLETE: Drawing would be useful, though not essential; research maker's stamp; edit DL photos.

Inventario number: 12793

Scheda Buffetti: Found in schedario

Other id number(s):

Publication information: Not published.

Provenience: I.11.17.

Context: No information.

Storage: Casa di Bacco C III 1b (2)

Material: Ceramic

Class number:

Class name: Italian Sigillata

Form: Dish - sloping wall and bead rim.

Form number: Conspectus 3.

Alternative form name /number:

Assumed Function: Food consumption

FILEMAKER PRO 12 (17)

BASIC INFORMATION | **GRAPHICS** | MEASUREMENTS | MANUFACTURE | CONDITION | TEXTS | ANALYSES

DATABASE ENTRY NUMBER

PALHIP NUMBER 2091

iPad photo(s) Taken

Microphoto(s) Taken

SLR photo(s) Taken

Drawing(s) Not needed

SLR views needed: General views.

Details:
Markers stamp at center of floor (with raking light)
Abrasion of slip on upper surface
Gouges in floor
Abrasion slip on resting surface ring foot
Oblique raised features on exterior lower wall (if possible under taking light)

General photo

Drawing number

No published drawing.

Drawing

Microphoto of fabric


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 stardard 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.

BASIC INFORMATION | GRAPHICS | MEASUREMENTS | **MANUFACTURE** | CONDITION | TEXTS | ANALYSES

DATABASE ENTRY NUMBER

PALHIP NUMBER 2091

Raw material preparation

Evidence

Process

Forming

Evidence

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.

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 related to attaching of foot.

Process

1A. Blank thrown
1B. Ring foot thrown
2. Blank mounted on wheel in inverted position
3. Upper and lower (?) wall turned
4. Ring foot attached and lower wall smoothed
5. Vessel mounted on wheel in right-side up position
6A. Decoration cut in floor (grooves, chattering)
6B. Maker's stamp impressed in floor
7. Vessel slipped

Surfacing

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.

Drying/firing

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?).

BASIC INFORMATION | GRAPHICS | MEASUREMENTS | MANUFACTURE | **CONDITION** | TEXTS | ANALYSES

DATABASE ENTRY NUMBER

PALHIP NUMBER 2091

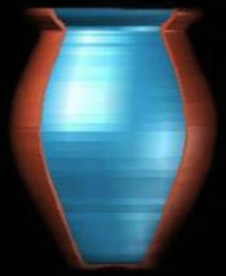
Completeness	Complete except for small chip in rim.
Rim percent	99
Base percent	100
Handle percent	
Brokenness	Consists of 1 rim/base fragment preserving all of vessel except portion of rim and wall and 3 joining rim fragments. One small chip of rim missing. Incrustation on fracture surfaces of all 3 rim fragments. indicate breakage occurred prior to excavation.
Conservation	Vessel cleaned (if not thoroughly) and inventory number placed on area inside of ring food, with number in ink over small patch of lacquer or similar colorless substance.
Modification(s)	Not present.
Damage	Exterior: Slip heavily abraded from virtually entire upper surface of rim; slip abraded in linear pattern along edges of facets on upper wall in strip extending ca. 1 cm down from rim; slip abraded in continuous lines along edges of facets on lower upper wall and transition to lower wall; nearly entire resting surface abraded (including slip and perhaps unslipped surface in some areas) (though some of this may have occurred since excavation). Interior: Slip abraded in a few patches on wall immediately below rim; five large gouges (four oblique, 1 radial) on floor in 3-5 o'clock position. Two chips in exterior at juncture of upper and lower wall associated with crack propagating across lower wall to ring
Soot/ash deposition	Not present.
Stain(s)/ incrustation(s)	Not present.
UV/IR examination	Not performed.
Other use alteration(s)	Not present.
Use	Very substantial abrasion of rim and resting surface and moderate abrasion of outer wall suggest subjected to considerable use. Gouges on floor may point to episode of breakage, which might have resulted from deliberate action.

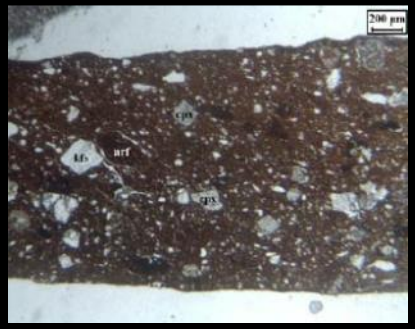
BASIC INFORMATION | GRAPHICS | MEASUREMENTS | MANUFACTURE | CONDITION | **TEXTS** | ANALYSES

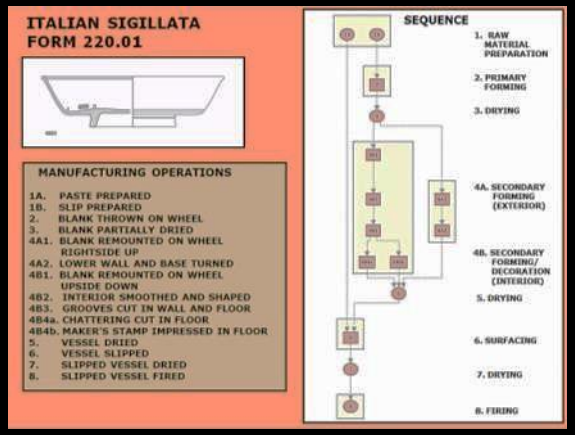
DATABASE ENTRY NUMBER

PALHIP NUMBER 2091

Maker's stamp(s)	In planta pedis makers stamp in floor, slightly off center. Text: GN>A>PL
Graffito(s)	Not present.
Dipinto(s)	Not present.
Image 1	
Image 2	
Epigraphy notes	Needs to be researched.







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)

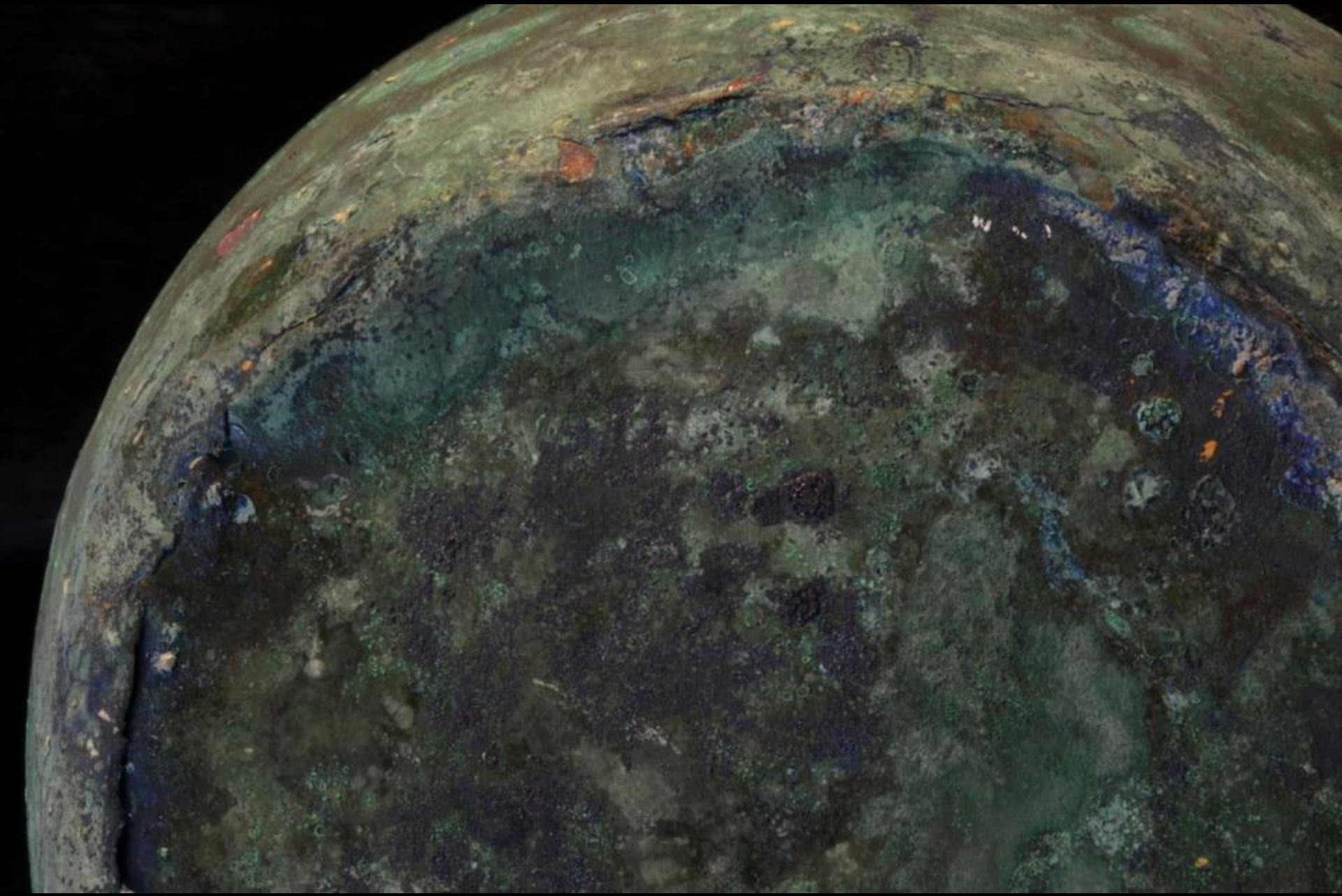
RESULTS
(USE ALTERATIONS)

PALHIP 0032 (VILLA REGINA) CAMPANIAN COOKWARE COOKPOT (DI GIOVANNI 2311C)

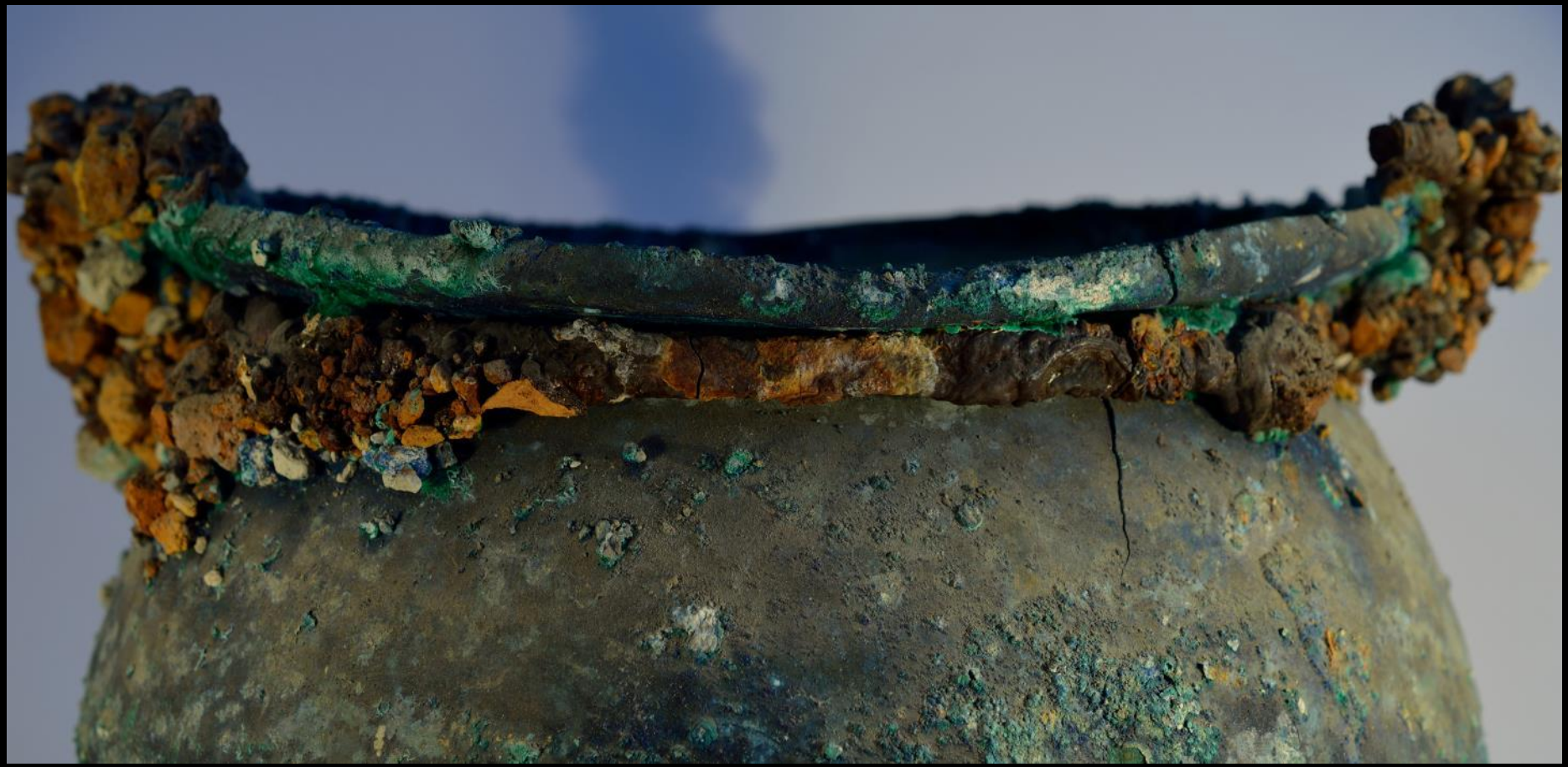
PALHIP 0061 (VILLA REGINA) CAMPANIAN COOKWARE CASSEROLE (DI GIOVANNI 2211B/E-F)

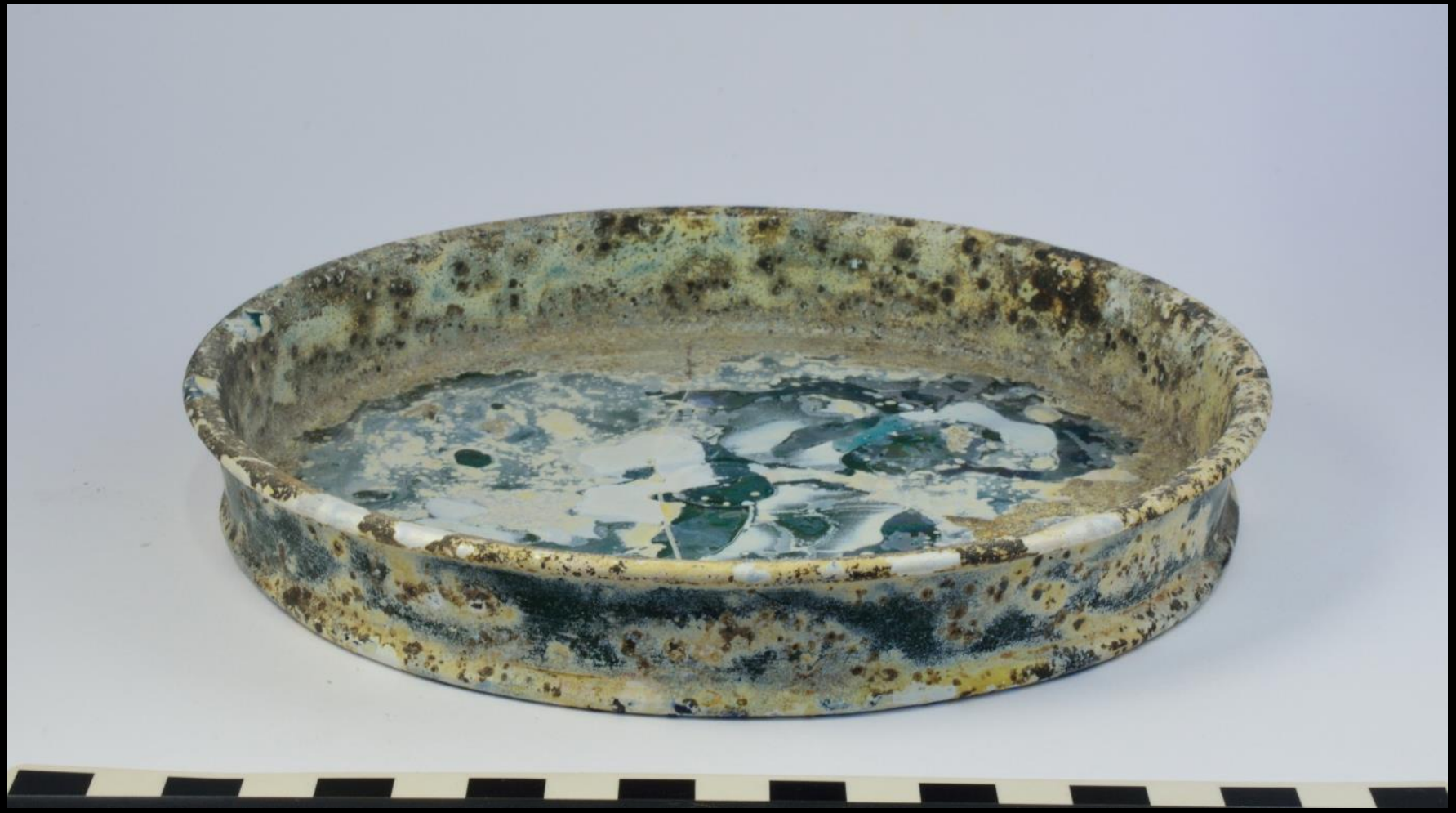

24181
51

PALHIP 0053 (VILLA REGINA)
BRONZE AND IRON BUCKET
(TASSINARI X 1522)



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





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

1274

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

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

RESULTS
(HOUSEHOLD ASSEMBLAGE ANALYSIS)

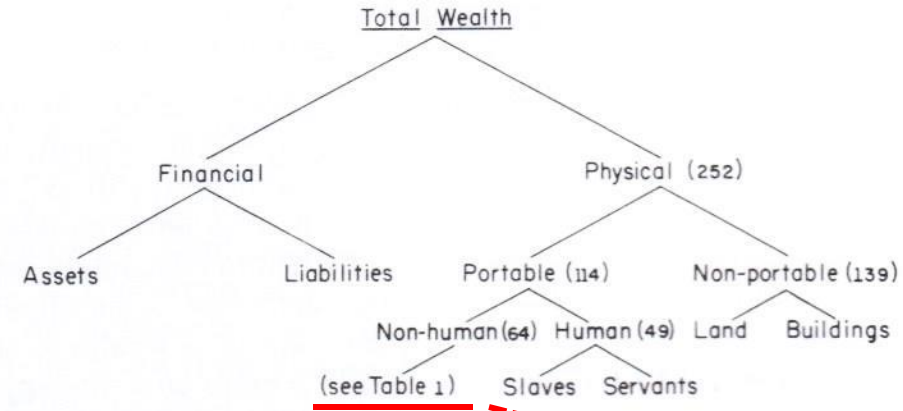


FIG. 1. Classification of wealth in Colonial America, 1774 (from Jones 1980). Figures in parentheses represent the mean value per household (in pounds sterling) in the 13 colonies in 1774). Nonhuman wealth is further broken down in Table 1.

TABLE 1

TYPES OF NONHUMAN PORTABLE PHYSICAL WEALTH IN COLONIAL AMERICA, 1774[a]

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

[a] Classification and data are from Jones (1980).

[b] 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 ANTHROPOLOGCAL ARCHAEOLOGY* 6:297-335.

TABLE 3

HOUSEHOLD POSSESSIONS AND WEALTH IN A MEXICO CITY TENEMENT[a]

Types of possession	Total value, all 14 households		Mean value per household	2 top and 2 bottom extreme households			Correlation[b] with household totals	Use-life[c]
	Dollars	%		Wealthy	Poor	Wealthy ÷ Poor		
Household totals	4114[d]	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

[a] Data are taken from Lewis (1973).
[b] Correlations are Pearson's *r*.
[c] Use-life represents the mean length of possession (in years) for items of each category.
[d] All figures are in U.S. dollars as presented by Lewis (1973).

FROM SMITH 1987

VESSELS BY RESIDENCE BY MATERIAL: NUMBER SPECIMENS, PERCENT SPECIMENS

THREE RESIDENCES: NUMBER OF CONTAINERS BY MATERIAL

RESIDENCE	POTTERY	CER. LAMP	GLASS	STONE	LEAD	BRONZE	SILVER	GOLD/CALCITE	TOTAL
VILLA REGINA	59	4	3	0	0	2	0	0	68
C. L. HABONIUS PRIMUS	2	8	32	0	0	15	3	0	60
C. IMPERIALE	3	5	51	1	1	34	0	1	96

THREE RESIDENCES: PERCENTAGE CONTAINERS BY MATERIAL

RESIDENCE	POTTERY	CER. LAMP	GLASS	STONE	LEAD	BRONZE	SILVER	GOLD/CALCITE	TOTAL
VILLA REGINA	86.8	5.9	4.4	0.0	0.0	2.9	0.0	0.0	100.0
C. L. HABONIUS PRIMUS	3.3	13.3	53.4	0.0	0.0	25.0	5.0	0.0	100.0
C. IMPERIALE	3.1	5.2	53.2	1.0	1.0	35.5	0.0	1.0	100.0

TABLE 2

GUTTMAN SCALE ANALYSES OF HOUSEHOLD POSSESSIONS

Place and citation	Item	% of households with item
A. Papeete, Tahiti (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
B. Sevettijärvi, Finland (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
C. Temazcalcingo, Mexico (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

DATA SUMMARY: NUMBER OF ITEMS FOR GENERALIZED FUNCTIONAL GROUPS BY RESIDENCE

ORDER	FUNCTIONAL GROUP	MAT	VAL	REG	LHP	IMP	ITEMS
1	Water acquisition - bronze	MET AE	6	1	2	0	bucket
2	Lighting - ceramic	CER LMP	1	4	8	5	lamp - mold-made
3	Lighting - bronze	MET AE	6	0	2	2	lamp - cast
4	Lighting support - bronze	MET AE	6	1	1	0	lamp stand (tall, tabletop)
5	Cooking - closed - ceramic	CER	1	6	[>/=0]	[>/=0]	cookpot
6	Cooking - closed - bronze	MET AE	6	0	0	1	cookpot
7	Cooking - closed lid - ceramic	CER	1	11	[>/=0]	[>/=0]	cookpot lid
8	Cooking - deep open - bronze	MET AE	6	0	1	4(2	casserole
9	Cooking - deep open - ceramic	CER	1	2	[>/=0]	[>/=0]	casserole
10	Cooking - deep open lid - ceramic	CER	1	3	[>/=0]	[>/=0]	casserole lid
11	Cooking - shallow open - ceramic	CER	1	1	[>/=0]	[>/=0]	pan
12	Cooking - shallow open - bronze	MET AE	6	0	0	1	pan
13	Cooking - shallow open lid - ceramic	CER	1	1	[>/=0]	[>/=0]	pan lid
14	Cooking - closed water boiling - bronze	MET AE	6	0	1	0	cauldron
15	Cooking - closed water boiling - bronze	MET AE	6	0	1	0	cauldron lid
16	Food preparation/serving (and other?) - ceramic	CER	1	3	[>/=0]	[>/=0]	basin
17	Food preparation/serving (and other?) - bronze	MET AE	6	0	2	7	basin, bilobe basin, oval basin
18	Food (?) grinding - stone	STONE IV	6	0	0	2	mortar, pestle
19	Food consumption - ceramic	CER	1	2	[>/=2]	>/=2(1	plate/dish/bowl
20	Food consumption - glass	GLASS	2	0	5	5	plate/dish
21	Food consumption - bronze	MET AE	6	0	0	1	dish/bowl
22	Drink consumption (tall) - ceramic	CER	1	2	[>/=0]	[>/=0]	beaker
23	Drink consumption (tall) - glass	GLASS	2	0	2	1	beaker, flagon
24	Drink consumption (short) - ceramic	CER	1	4	[>/=0]	[>/=1]	cup
25	Drink consumption (short) - glass	GLASS	2	0	1	7	cup
26	Drink consumption (short) - silver	MET AG	8	0	(1 or 2	0	cup
27	Drink consumption (other) - ceramic	CER	1	1	[>/=0]	[>/=0]	kantharos
28	Drink serving (small) - ceramic	CER	1	5	[>/=0]	[>/=0]	small pitcher, juglet
29	Drink serving (small) - glass	GLASS	2	1	4	3	askos, juglet, small cylindrical bottle; small globular bottle
30	Drink serving (small) - bronze	MET AE	6	0	0	1	juglet
31	Drink serving (large) - ceramic	CER	1	6	[>/=0]	[>/=0]	bottle, pitcher, jug
32	Drink serving (large) - glass	GLASS	2	0	0	2	flask, small cylindrical bottle
33	Drink serving (large) - bronze	MET AE	6	1	0	2(2	lagoena, pitcher, table amphora
34	Drink serving accessory - glass	GLASS	2	0	0	1	deep dipping vessel
35	Drink serving accessory - bronze	MET AE	6	0	0	6	deep dipping vessel, funnel, colander
36	Drink serving accessory - silver	MET AG	8	0	(1	0	ladle
37	Food/drink storage/packaging (small) - ceramic	CER	1	5	[>/=0]	[>/=0]	small jar, small jar lid, very small amphora
38	Food/drink storage/packaging (small) - glass	GLASS	2	1	6	0	medium cylindrical bottle, small square bottle, small square jar
39	Food/drink storage/packaging (medium) - ceramic	CER	1	2	[>/=0]	[>/=0]	jar, jar lid, flat-bottomed amphora bottom
40	Food/drink storage/packaging (medium) - glass	GLASS	2	0	10	3	large cylindrical bottle, large square bottle, large square jar
41	Food/drink storage/packaging (large) - ceramic	CER	1	3	[>/=0]	[>/=0]	amphora
42	High unit value substance storage/packaging - glass	GLASS	2	1	4	23	miniature balsamarium, balsamarium, minature jar
43	High unit value substance storage/packaging - rock cryst	STONE R	7	0	0	1	balsamarium
44	Craft production/tool maintenance - stone	STONE	2	1	0	0	hone
45	Craft production/tool maintenance - iron	MET FE	4	1	0	0	hatchet
46	Craft production/tool maintenance - iron and bronze	MET AE+	5	0	0	1	knife
47	Craft production/tool maintenance - bronze	MET AE	6	0	1	0	needle
48	Weighing (small) - bronze	MET AE	6	0	0	3(2	balance pan, balance arm, pendant weight
49	Weighing (large) - stone	STONE	2	1	0	0	weight
50	Storage small objects - lead	MET PB	4	0	0	(1	"teca"
51	Storage small objects - bronze	MET AE	6	0	0	(6	"teca"
52	Storage small objects - silver	MET AG	8	0	0	(1	"teca"
53	Storage small objects - gold and calcite	MET AU+	9	0	0	(1	"teca"
54	Coins -bronze	MET AE	6	0	0	(22	
55	Exercise/entertainment - ceramic	CER	1	1	[>/=0]	[>/=0]	frittulus (dice cup)?
56	Exercise/entertainment - glass paste	GLASS P	2	1	0	(24	token
57	Exercise/entertainment - bronze	MET AE	6	0	1	2	strigil, miniature strigil (?)
58	Bell - bronze	MET AE	6	0	1	(13	
59	Grooming/health - bronze	MET AE	6	0	0	(5	tweezers, surgical instruments
60	Personal adornment - wood	ORG WO	2	0	(1	(1	fan handle
61	Personal adornment - bone	ORG BO	2	0	0	(2	2 pierced boar's tusks
62	Personal adornment - glass paste	GLASS P	2	0	0	(48	bead
63	Personal adornment - rock crystal	STONE R	7	0	0	(3	bead, pendant
64	Personal adornment - gem stones	STONE G	8	0	(>/=3	0	
65	Personal adornment - bronze	MET AE	6	0	1	(2	ring, staff head, brooch
66	Personal adornment - silver	MET AG	8	0	(2	(1	earring; ring
67	Personal adornment - gold	MET AU	10	0	(1	0	"nastrino"
68	Religious observance - ceramic	CER	1	1	[>/=0]	[>/=0]	incense burner
69	Religious observance - stone	STONE IV	6	1	0	0	small statue
70	Religious observance - glass paste	GLASS P	2	0	(>/=3	0	scarab, amulet
71	Religious observance - bronze	MET AE	6	0	3	5(1	statuette, patera (?)
72	Wooden storage furniture	ORG WO	5	0	26	(4	bronze and iron strap hinges; bronze pulls; bone pivot
73	Locking door - iron	MET FE	4	0	2	0	key
74	Equine transport - bronze	MET AE	6	0	3	0	blinders, bit

ORDER	FUNCTIONAL GROUP	MAT	VAL	V REG	C LHP	C IMP	ITEMS
1	Water acquisition - bronze	MET AE	6	1	2	0	bucket
2	Lighting - ceramic	CER LMP	1	4	8	5	lamp - mold-made
3	Lighting - bronze	MET AE	6	0	2	2	lamp - cast
4	Lighting support - bronze	MET AE	6	1	1	0	lamp stand (tall, tabletop)
5	Cooking - closed - ceramic	CER	1	6	[>/=0]	[>/=0]	cookpot
6	Cooking - closed - bronze	MET AE	6	0	0	1	cookpot
7	Cooking - closed lid - ceramic	CER	1	11	[>/=0]	[>/=0]	cookpot lid
8	Cooking - deep open - bronze	MET AE	6	0	1	4(2	casserole
9	Cooking - deep open - ceramic	CER	1	2	[>/=0]	[>/=0]	casserole
10	Cooking - deep open lid - ceramic	CER	1	3	[>/=0]	[>/=0]	casserole lid
11	Cooking - shallow open - ceramic	CER	1	1	[>/=0]	[>/=0]	pan
12	Cooking - shallow open - bronze	MET AE	6	0	0	1	pan
13	Cooking - shallow open lid - ceramic	CER	1	1	[>/=0]	[>/=0]	pan lid
14	Cooking - closed water boiling - bronze	MET AE	6	0	1	0	cauldron
15	Cooking - closed water boiling - bronze	MET AE	6	0	1	0	cauldron lid
16	Food preparation/serving (and other?) - ceramic	CER	1	3	[>/=0]	[>/=0]	basin
17	Food preparation/serving (and other?) - bronze	MET AE	6	0	2	7	basin, bilobe basin, oval basin
18	Food (?) grinding - stone	STONE M	6	0	0	2	mortar, pestle
19	Food consumption - ceramic	CER	1	2	[>/=2]	>/=2(1]	plate/dish/bowl
20	Food consumption - glass	GLASS	2	0	5	5	plate/dish
21	Food consumption - bronze	MET AE	6	0	0	1	dish/bowl
22	Drink consumption (tall) - ceramic	CER	1	2	[>/=0]	[>/=0]	beaker
23	Drink consumption (tall) - glass	GLASS	2	0	2	1	beaker, flagon
24	Drink consumption (short) - ceramic	CER	1	4	[>/=0]	[>/=1]	cup
25	Drink consumption (short) - glass	GLASS	2	0	1	7	cup
26	Drink consumption (short) - silver	MET AG	8	0	(1 or 2	0	cup
27	Drink comsumption (other) - ceramic	CER	1	1	[>/=0]	[>/=0]	kantharos
28	Drink serving (small) - ceramic	CER	1	5	[>/=0]	[>/=0]	small pitcher, juglet
29	Drink serving (small) - glass	GLASS	2	1	4	3	askos, juglet, small cylindrical bottle; small globular bottle
30	Drink serving (small) - bronze	MET AE	6	0	0	1	juglet
31	Drink serving (large) - ceramic	CER	1	6	[>/=0]	[>/=0]	bottle, pitcher, jug
32	Drink serving (large) - glass	GLASS	2	0	0	2	flask, small cylindrical bottle
33	Drink serving (large) - bronze	MET AE	6	1	0	2(2	lagoena, pitcher, table amphora
34	Drink serving accessory - glass	GLASS	2	0	0	1	deep dipping vessel
35	Drink serving accessory - bronze	MET AE	6	0	0	6	deep dipping vessel, funnel, colander
36	Drink serving accessory - silver	MET AG	8	0	(1	0	ladle
37	Food/drink storage/packaging (small) - ceramic	CER	1	5	[>/=0]	[>/=0]	small jar, small jar lid, very small amphora
38	Food/drink storage/packaging (small) - glass	GLASS	2	1	6	0	medium cylindrical bottle, small square bottle, small square jar
39	Food/drink storage/packaging (medium) - ceramic	CER	1	2	[>/=0]	[>/=0]	jar, jar lid, flat-bottomed amphora bottom
40	Food/drink storage/packaging (medium) - glass	GLASS	2	0	10	3	large cylindrical bottle, large square bottle, large square jar
41	Food/drink storage/packaging (large) - ceramic	CER	1	3	[>/=0]	[>/=0]	amphora
42	High unit value substance storage/packaging - glass	GLASS	2	1	4	29	miniature balsamarium, balsamarium, minature jar
43	High unit value substance storage/packaging - rock crystal	STONE RC	7	0	0	1	balsamarium

DATA SORTED BY VALUE

ORDER	FUNCTIONAL GROUP	MAT	VAL	V REG	C LHP	C IMP	ITEMS
		MET AU	10	0	(1	0	"nastrino"
		MET AU+C	9	0	0	(1	"teca"
		MET AG	8	0	(1 or 2	0	cup
36	Drink serving accessory - silver	MET AG	8	0	(1	0	ladle
52	Storage small objects - silver	MET AG	8	0	0	(1	"teca"
64	Personal adornment - gem stones	STONE G	8	0	(>/=3	0	
66	Personal adornment - silver	MET AG	8	0	(2	(1	earring; ring
43	High unit value substance storage/packaging - rock crystal	STONE RC	7	0	0	1	balsamarium
63	Personal adornment - rock crystal	STONE RC	7	0	0	(3	bead, pendant
1	Water acquisition - bronze	MET AE	6	**1**	**2**	**0**	bucket
3	Lighting - bronze	MET AE	6	0	2	2	lamp - cast
4	Lighting support - bronze	MET AE	6	1	1	0	lamp stand (tall, tabletop)
6	Cooking - closed - bronze	MET AE	6	0	0	1	cookpot
8	Cooking - deep open - bronze	MET AE	6	0	1	4(2	casserole
12	Cooking - shallow open - bronze	MET AE	6	0	0	1	pan
14	Cooking - closed water boiling - bronze	MET AE	6	0	1	0	cauldron
15	Cooking - closed water boiling - bronze	MET AE	6	0	1	0	cauldron lid
17	Food preparation/serving (and other?) - bronze	MET AE	6	0	2	7	basin, bilobe basin, oval basin
18	Food (?) grinding - stone	STONE M	6	0	0	2	mortar, pestle
21	Food consumption - bronze	MET AE	6	0	0	1	dish/bowl
30	Drink serving (small) - bronze	MET AE	6	0	0	1	juglet
33	Drink serving (large) - bronze	MET AE	6	1	0	2(2	lagoena, pitcher, table amphora
35	Drink serving accessory - bronze	MET AE	6	0	0	6	deep dipping vessel, funnel, colander
47	Craft production/tool maintenance - bronze	MET AE	6	0	1	0	needle
48	Weighing (small) - bronze	MET AE	6	0	0	3(2	balance pan, balance arm, pendant weight
51	Storage small objects - bronze	MET AE	6	0	0	(6	"teca"
54	Coins -bronze	MET AE	6	0	0	(22	
57	Exercise/entertainment - bronze	MET AE	6	0	1	2	strigil, miniature strigil (?)
58	Bell - bronze	MET AE	6	0	1	(13	
59	Grooming/health - bronze	MET AE	6	0	0	(5	tweezers, surgical instruments
65	Personal adornment - bronze	MET AE	6	0	1	(2	ring, staff head, brooch
69	Religious observance - stone	STONE M	6	1	0	0	small statue
71	Religious observance - bronze	MET AE	6	0	3	5(1	statuette, patera (?)
74	Equine transport - bronze	MET AE	6	0	3	0	blinders, bit
46	Craft production/tool maintenance - iron and bronze	MET AE+I	5	0	0	1	knife
72	Wooden storage furniture	ORG WO	5	0	26	(4	bronze and iron strap hinges; bronze pulls; bone pivot
45	Craft production/tool maintenance - iron	MET FE	4	1	0	0	hatchet
50	Storage small objects - lead	MET PB	4	0	0	(1	"teca"
73	Locking door - iron	MET FE	4	0	2	0	key
20	Food consumption - glass	GLASS	2	0	5	5	plate/dish
23	Drink consumption (tall) - glass	GLASS	2	0	2	1	beaker, flagon
25	Drink consumption (short) - glass	GLASS	2	0	1	7	cup
29	Drink serving (small) - glass	GLASS	2	1	4	3	askos, juglet, small cylindrical bottle; small globular bottle

POSSIBLE ELABORATIONS:

- BY INDIVIDUAL ITEM
- VALUE AS FUNCTION OF MATERIAL X WEIGHT X MANUFACTURING PROCESSS
- RATE ITEMS ON SCALE CHARACTERIZING DEGREE OF USE ALTERATION

ORDER	FUNCTIONAL GROUP	MAT	VAL	V REG	C LHP	C IMP	ITEMS
		MET AU	10	0	(1	0	"nastrino"
		AU+C	9	0	0	(1	"teca"
		AG	8	0	(1 or 2	0	cup
		AG	8	0	(1	0	ladle
		AG	8	0	0	(1	"teca"
		E G	8	0	(>/=3	0	
		AG	8	0	(2	(1	earring; ring
		E RC	7	0	0	1	balsamarium
		E RC	7	0	0	(3	bead, pendant
		AE	6	1	2	0	bucket
		AE	6	0	2	2	lamp - cast
		AE	6	1	1	0	lamp stand (tall, tabletop)
		AE	6	0	0	1	cookpot
		AE	6	0	1	4(2	casserole
		AE	6	0	0	1	pan
		AE	6	0	1	0	cauldron
		AE	6	0	1	0	cauldron lid
17	Food preparation/serving (and other?) - bronze	MET AE	6	0	2	7	basin, bilobe basin, oval basin
18	Food (?) grinding - stone	STONE M	6	0	0	2	mortar, pestle
21	Food consumption - bronze	MET AE	6	0	0	1	dish/bowl
30	Drink serving (small) - bronze	MET AE	6	0	0	1	juglet
33	Drink serving (large) - bronze	MET AE	6	1	0	2(2	lagoena, pitcher, table amphora
35	Drink serving accessory - bronze	MET AE	6	0	0	6	deep dipping vessel, funnel, colander
47	Craft production/tool maintenance - bronze	MET AE	6	0	1	0	needle
48	Weighing (small) - bronze	MET AE	6	0	0	3(2	balance pan, balance arm, pendant weight
51	Storage small objects - bronze	MET AE	6	0	0	(6	"teca"
54	Coins -bronze	MET AE	6	0	0	(22	
57	Exercise/entertainment - bronze	MET AE	6	0	1	2	strigil, miniature strigil (?)
58	Bell - bronze	MET AE	6	0	1	(13	
59	Grooming/health - bronze	MET AE	6	0	0	(5	tweezers, surgical instruments
65	Personal adornment - bronze	MET AE	6	0	1	(2	ring, staff head, brooch
69	Religious observance - stone	STONE M	6	1	0	0	small statue
71	Religious observance - bronze	MET AE	6	0	3	5(1	statuette, patera (?)
74	Equine transport - bronze	MET AE	6	0	3	0	blinders, bit
46	Craft production/tool maintenance - iron and bronze	MET AE+I	5	0	0	1	knife
72	Wooden storage furniture	ORG WO	5	0	26	(4	bronze and iron strap hinges; bronze pulls; bone pivot
45	Craft production/tool maintenance - iron	MET FE	4	1	0	0	hatchet
50	Storage small objects - lead	MET PB	4	0	0	(1	"teca"
73	Locking door - iron	MET FE	4	0	2	0	key
20	Food consumption - glass	GLASS	2	0	5	5	plate/dish
23	Drink consumption (tall) - glass	GLASS	2	0	2	1	beaker, flagon
25	Drink consumption (short) - glass	GLASS	2	0	1	7	cup
29	Drink serving (small) - glass	GLASS	2	1	4	3	askos, juglet, small cylindrical bottle; small globular bottle

RESULTS
(PRESENTATION)

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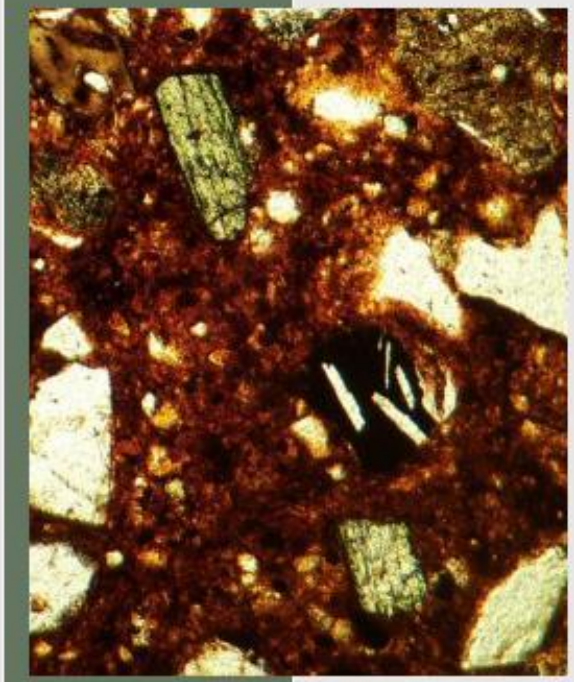

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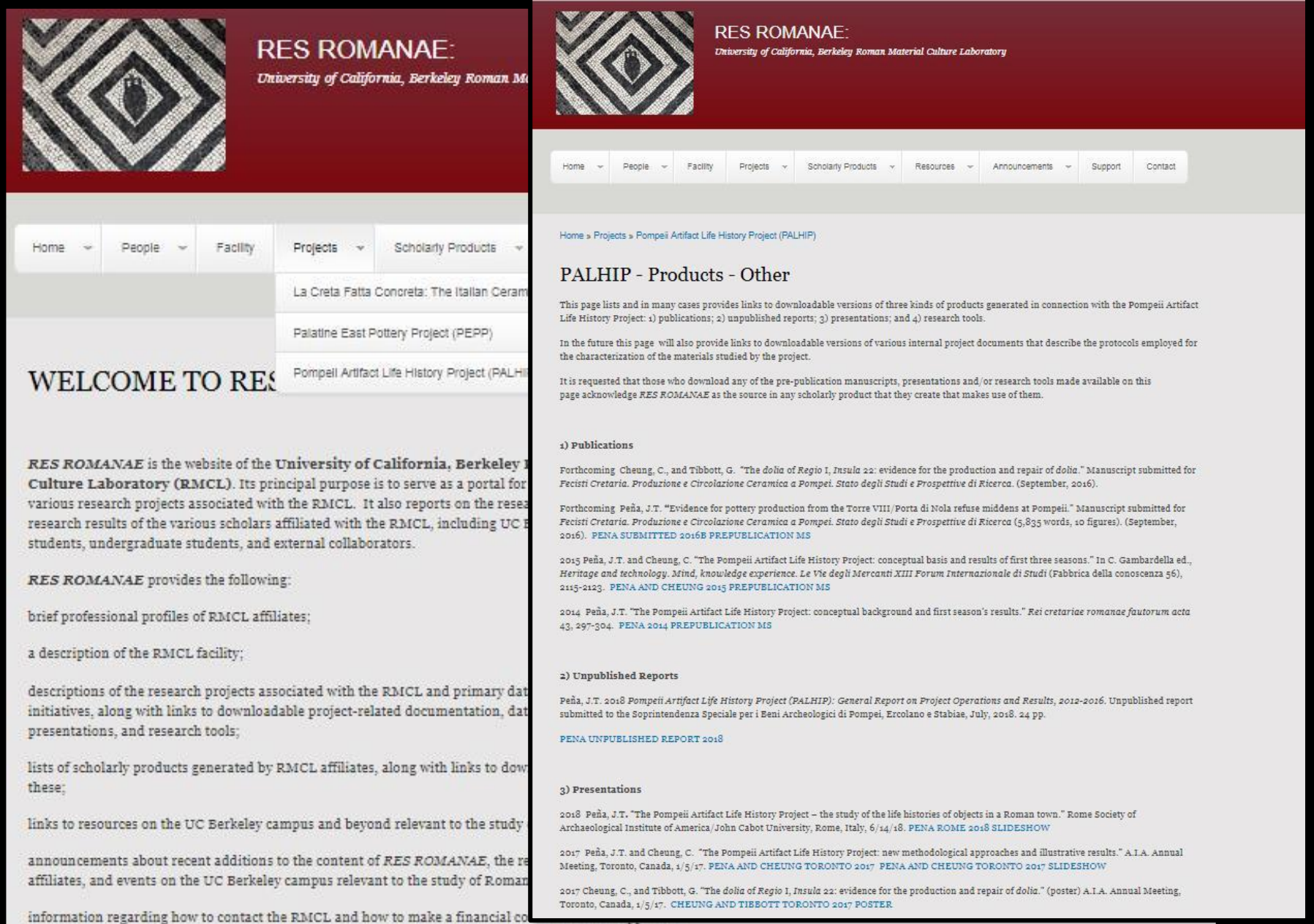

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